

## RECEPTACLE SCHEDULE

CALLOUT	SYMBOL	VOLTS	NOTE 1	NOTE 2	NOTE 3
208V-1P		208V 2P 2W	208V-1P RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI	COORDINATE EXACT RECEPTACLE TYPE WITH EQUIPMENT SPECIFICATIONS	
Duplex Outlet		120V 1P 2W	DUPLEX RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI		
Duplex Outlet-EWC		120V 1P 2W	DUPLEX RECEPTACLE FOR DRINKING FOUNTAIN	COORDINATE MOUNTING HEIGHT WITH PLUMBING CONTRACTOR	DEDICATED CIRCUIT WITH GFCI BREAKER
Duplex Outlet-GFCI		120V 1P 2W	GFCI PROTECTED DUPLEX RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI		
Duplex Outlet-GFCI Above Counter		120V 1P 2W	GFCI PROTECTED DUPLEX RECEPTACLE, MTD AT 4" ABOVE BACKSPASH TO BOTTOM, UOI	COORDINATE WITH CASEWORK CONTRACTOR	
Duplex Outlet-GFCI/WP		120V 1P 2W	GFCI PROTECTED DUPLEX RECEPTACLE, WITH WEATHER-PROOF IN-USE COVER, MTD AT 18" AFF TO BOTTOM, UOI		
Duplex Outlet-Vending		120V 1P 2W	DUPLEX RECEPTACLE FOR VENDING/REFRIGERATOR, MTD AT 48" AFF TO BOTTOM, UOI	DEDICATED CIRCUIT WITH GFCI BREAKER	
Floor Box/Stub Up Quad Combo		120V 1P 2W	FLOORBOX WITH (1) QUAD RECEPTACLE AND (1) TELEPHONE/DATA OUTLET		
J-Box		120V 1P 2W	JUNCTION BOX, USE AS INDICATED		
Quad Outlet		120V 1P 2W	QUAD RECEPTACLE, MTD AT 18" AFF TO BOTTOM, UOI		
Tele & Data		120V 1P 2W	EMPTY 3/4" CONDUIT STUB UP TO ABOVE CEILING FOR TELEPHONE & DATA	MTD AT 18" AFF TO BOTTOM, UOI	

## ELECTRICAL SYMBOLS

- NONFUSED DISCONNECT SWITCH - SIZE AS INDICATED
- FUSED DISCONNECT SWITCH - SIZE AS INDICATED
- COMBINATION STARTER/DISCONNECT - SIZE AS INDICATED
- TOGGLE SWITCH
- FEEDER/BRANCH RUN OVERHEAD - CONCEALED IN OR ABOVE CEILING, IN WALL, OR EXPOSED ON STRUCTURE
- EMERGENCY, NIGHT LIGHT, OR FEEDER/BRANCH CONCEALED BELOW FLOOR, IN WALL, OR BELOW GRADE
- HOME RUN TO CIRCUIT PANEL, NEUTRAL/HOT/GROUND, #12 COPPER, UOI

## ABBREVIATIONS

- GC GENERAL CONTRACTOR
- EC ELECTRICAL CONTRACTOR
- MC MECHANICAL CONTRACTOR
- UOI UNLESS OTHERWISE INDICATED
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- WP WEATHERPROOF
- a, b, c, etc. DENOTES SWITCHING SCHEME
- AFB ABOVE FINISHED FLOOR
- AC MOUNT ABOVE COUNTER
- MTD MOUNTED
- AFG ABOVE FINISHED GRADE
- BFG BELOW FINISHED GRADE
- SPD SURGE PROTECTIVE DEVICE
- STB SHUNT TRIP BREAKER
- EX EXISTING
- EP EXPLOSION PROOF
- OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
- FACP FIRE ALARM CONTROL PANEL
- FAA FIRE ALARM ANNUNCIATOR PANEL

## DRAWING LEGEND

DRAWING NO.	DESCRIPTION
E001	Legend & Schedules - Electrical
E002	Fixture Schedule - Electrical
E003	Notes - Electrical
E004	One Line Diagram - Electrical
E005	Details - Electrical
E201	1st Floor Plan - Lighting
E202	2nd Floor Plan - Lighting
E301	1st Floor Plan - Power, Comm, & Fire Alarm
E302	2nd Floor Plan - Power, Comm, & Fire Alarm

## SWITCH SCHEDULE

CALLOUT	SYMBOL	NOTE 1	NOTE 2	NOTE 3
Occ Sensor - Ceiling Mount Line Voltage		CEILING MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE OCCUPANCY SENSOR	MODEL WATTSTOPPER DT-355, OR APPROVED EQUAL	
Occ Sensor - Ceiling Mount Low Voltage		CEILING MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE OCCUPANCY SENSOR	MODEL WATTSTOPPER DT-300, OR APPROVED EQUAL	REQUIRES POWER PACK
Switch		WALL MOUNTED SWITCH	COLOR-IVORY	MTD AT 48" AFF, UOI
Switch-Dimmer		WALL MOUNTED 1200W DIMMER SWITCH	COLOR-IVORY	MTD AT 48" AFF, UOI
Switch-Occupancy Sensor		WALL MOUNTED, DUAL TECHNOLOGY, OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH	MODEL WATTSTOPPER DSW-100, OR APPROVED EQUAL	MTD AT 48" AFF, UOI
Switch-Three Way		WALL MOUNTED THREE WAY SWITCH	COLOR-IVORY	MTD AT 48" AFF, UOI

## Fire Alarm Schedule

CALLOUT	SYMBOL	NOTE 1
Audio/Visual Alarm		FIRE ALARM COMBINATION AUDIBLE & VISUAL INDICATOR ALARM, WALL MTD
Manual Pull Station		FIRE ALARM MANUAL PULL STATION, MTD 48" AFF TO BOTTOM, UOI
Smoke Detector		FIRE ALARM SMOKE DETECTOR, MTD ON CEILING
Visual Alarm		FIRE ALARM VISUAL INDICATOR ALARM, WALL MTD

## EQUIPMENT SCHEDULE

CALLOUT	SYMBOL	VOLTS	KVA	HP	CIRCUIT	DESCRIPTION
AHU-1		120V 1P 2W	1.66	3/4 HP	MDP-2	AIR HANDLING UNIT
AHU-2		120V 1P 2W	1.18	1/2 HP	MDP-4	AIR HANDLING UNIT
AHU-3		120V 1P 2W	1.18	1/2 HP	MDP-6	AIR HANDLING UNIT
AHU-4		120V 1P 2W	1.18	1/2 HP	MDP-8	AIR HANDLING UNIT
CU-1		208V 2P 2W	7.28		MDP-1,3	CONDENSING UNIT
CU-2		208V 2P 2W	4.16		MDP-5,7	CONDENSING UNIT
CU-3		208V 2P 2W	5.41		MDP-9,11	CONDENSING UNIT
CU-4		208V 2P 2W	4.16		MDP-13,15	CONDENSING UNIT
EF-1		120V 1P 2W	0.1	F HP		EXHAUST FAN
EF-2		120V 1P 2W	0.1	F HP		EXHAUST FAN
EF-3		120V 1P 2W	0.1	F HP		EXHAUST FAN
EF-4		120V 1P 2W	0.1	F HP		EXHAUST FAN
UH-1		120V 1P 2W	0.1	F HP	MDP-17	UNIT HEATER
WH-1		208V 2P 2W	3		MDP-14,16	WATER HEATER

BYRON B. CARSON, JR., AIA

# ARCHITECT

5134 ELMORE, SUITE 6  
MEMPHIS, TN 38134  
PH: 901.433.9492  
FAX: 901.208.8842

bcarson.carsoninc@comcast.net

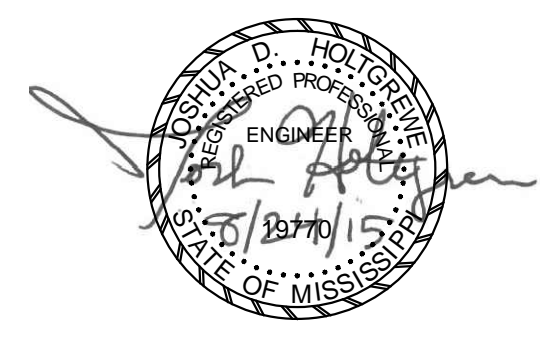
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CONSULTANTS

**HNA**  
Engineering, pllc

ISSUES & REVISIONS

NO.	DATE	DESCRIPTION
1	08/11/2015	Review Set
2	08/24/2015	Bid Set

PROJECT NAME:

PROJECT NUMBER:

DRAWING NAME:

LEGEND & SCHEDULES -  
ELECTRICAL

DRAWN BY: TCH  
CHECKED BY: JDH  
DATE: 08-24-15  
SCALE: AS NOTED

DRAWING NUMBER

# E001

**LUMINAIRE SCHEDULE**

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1	NOTE 2
A		42W LED	2'x2' ARCHITECTURAL TROFFER	RECESSED	COLUMBIA #LCAT22-40VLG-EU, OR APPROVED EQUAL	42	120V 1P 2W		
AE		42W LED	2'x2' ARCHITECTURAL TROFFER	RECESSED	SAME AS FIXTURE "A", ON BATTERY BACKUP	42	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
B		42W LED	2'x2' ARCHITECTURAL TROFFER, DIMMABLE	RECESSED	COLUMBIA #LCAT22-40VLG-ED, OR APPROVED EQUAL	42	120V 1P 2W		
BE		42W LED	2'x2' ARCHITECTURAL TROFFER, DIMMABLE	RECESSED	SAME AS FIXTURE "B", ON BATTERY BACKUP	42	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
CE		48W LED	4' UTILITY STRIPLIGHT, LENSED	SURFACE	COLUMBIA #LCL4-35ML-EU-ELL14, OR APPROVED EQUAL	48	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
D		27W LED	6" DOWNLIGHT	RECESSED	PRESCOLITE #LFLEDG4-6LFLED7G440KWT, OR APPROVED EQUAL	27	120V 1P 2W		
DE		27W LED	6" DOWNLIGHT	RECESSED	SAME AS FIXTURE "D", ON BATTERY BACKUP	27	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
E		3W LED	EXIT SIGN	WALL/CEILING	DUAL LITE #LX-U-R-W-E, OR APPROVED EQUAL	3	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
EG		3W LED	LED EMERGENCY REMOTE HEAD, WET LOCATION RATED	WALL, CENTERED ABOVE DOOR	DUAL LITE #PGZ, OR APPROVED EQUAL	3	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
EM		(2) 3W LED (MR-16)	(2)-HEAD EMERGENCY EGRESS FIXTURE	WALL	DUAL LITE #LZ-30-03L, OR APPROVED EQUAL	14	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
F		72W LED	4' LINEAR PENDANT	RECESSED	ALERA #LCV-4-40VL-PERF-CM96-EU-MW, OR APPROVED EQUAL	72	120V 1P 2W	COORDINATE FINISH COLOR WITH ARCHITECT	
FE		72W LED	4' LINEAR PENDANT	RECESSED	SAME AS FIXTURE "F", ON BATTERY BACKUP	72	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
G		25W LED	6" CYLINDER, DIMMABLE	PENDANT, COORDINATE HANGING HEIGHTS WITH ARCHITECT	PRESCOLITE #LCC6LED-P-18L-40K-8-WFL45-WC-WH, OR APPROVED EQUAL	25	120V 1P 2W	COORDINATE FINISH COLOR WITH ARCHITECT	
K		(1) 17W T8	28" ARCHITECTURAL VANITY FIXTURE	WALL	VISA #CB5512-1F017, OR APPROVED EQUAL	17	120V 1P 2W		
L		31W LED	4' STAIRWELL STRIPLIGHT W/ OCC SENSOR	SURFACE, MTD 8" AFF OR 8" ABOVE DOORS.	COLUMBIA #LBL4-40LW-ESDU-ELL14, OR APPROVED EQUAL	31	120V 1P 2W	CONNECT TO UNSWITCHED "LIFE SAFETY" CIRCUIT	PROVIDE LIGHTING MANUFACTURER RECOMMENDED EMERGENCY BATTERY BACKUP CAPABLE OF 90 MINUTE RUNTIME
M		3W LED	ARCHITECTURAL SCONCE	WALL @ 7' AFF	VISA #CB3660-LCW1200, OR APPROVED EQUAL	3	120V 1P 2W	COORDINATE FINISH WITH ARCHITECT	
P		53W LED	ARCHITECTURAL WALLPACK, TYPE 3 DISTRIBUTION	WALL, MTD PER ARCHITECT ELEVATIONS	LED - SPAULDING #TRP-30L-4K-053-3-U-DB, OR APPROVED EQUAL	53	120V 1P 2W		

**FIXTURE SCHEDULE NOTES**

- THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY AND ALL FIXTURES NOT PRE-APPROVED BY ARCHITECT/ENGINEER 10 DAYS PRIOR TO BID.

BYRON B. CARSON, JR., AIA

**ARCHITECT**

5134 ELMORE, SUITE 6  
MEMPHIS, TN 38134  
PH: 901.433.9492  
FAX: 901.208.8842

bcarson.carsoninc@comcast.net

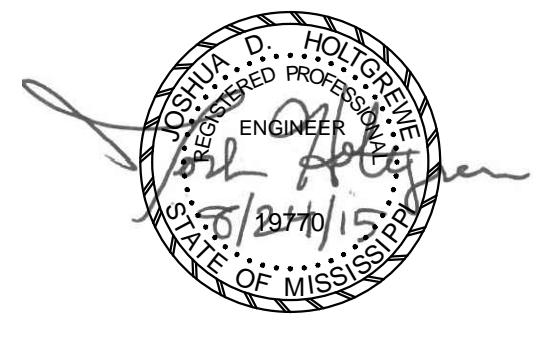
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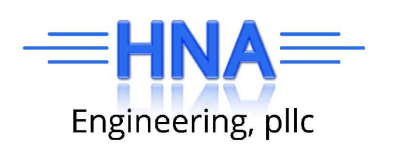
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FIXTURE SCHEDULE -  
ELECTRICAL

DRAWN BY: TCH  
CHECKED BY: JDH  
DATE: 08-24-15  
SCALE: AS NOTED

DRAWING NUMBER

**E002**

## GENERAL NOTES

1. ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE NEC (NATIONAL ELECTRICAL CODE) AND THE REQUIREMENTS OF ANY STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. SEE PANEL SCHEDULES FOR ADDITIONAL CIRCUIT, CONDUIT AND LOAD INFORMATION.
3. WHERE EXPOSED AND SUBJECT TO DAMAGE, CONDUIT SHALL BE GRC UP TO 10' AFF.
4. MINIMUM CONDUIT SIZE SHALL BE 3/4" AND MINIMUM WIRING SIZE SHALL BE #12AWG.
5. ALL CIRCUIT WIRING SHALL BE THHN TYPE WIRING.
6. MULTIPLE CIRCUITS MAY BE COMBINED INTO A SINGLE CONDUIT ONLY BY APPLYING NEC ARTICLE 310.15.B.2. CONDUCTOR SIZES LISTED ON THE PANEL SCHEDULES DO NOT ACCOUNT FOR THE COMBINING OF CIRCUITS.
7. SLIGHT MODIFICATIONS TO DESIGNED CIRCUITRY ARE PERMITTED PROVIDED CIRCUIT LOADING, DERATING, BALANCE, AND VOLTAGE DROP ARE TAKEN INTO CONSIDERATION. ALL MODIFICATIONS MUST BE DILIGENTLY NOTED ON THE "AS-BUILT" DRAWING SET.
8. ALL BRANCH CIRCUIT SHALL BE INSTALLED USING EMT CONDUIT WITH COMPRESSION FITTINGS, IN ENGINEER/ARCHITECT APPROVED AREAS, NO CABLE SHALL BE PERMITTED, UOI.
9. MC CABLE SHALL BE SUPPORTED AND SECURED AT INTERVALS NOT EXCEEDING 6' AND WITHIN 12" OF EVERY BOX, CABINET, FITTING OR OTHER CABLE TERMINATION UNLESS OTHERWISE PERMITTED BY NEC. SEE ARTICLE 330 FOR FURTHER INFORMATION.
10. EMT SHALL BE SECURELY FASTENED IN PLACE AT LEAST EVERY 10'. IN ADDITION, EACH EMT RUN SHALL BE SECURELY FASTENED WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, DEVICE BOX, CABINET, CONDUIT BODY. SEE ARTICLE 358 FOR FURTHER INFORMATION.
11. DO NOT SUPPORT RACEWAYS, BOXES, CABINETS, FITTINGS, CABLE ASSEMBLIES OR FIXTURES TO THE CEILING GRID SUPPORT SYSTEM. INDEPENDENT SUPPORT WIRES MAY BE USED AS A SOLE MEANS OF SUPPORT PROVIDED THEY ARE SECURED AT BOTH ENDS AND DISTINGUISHABLE BY COLOR, TAGGING OR OTHER EFFECTIVE MEANS FOR THE CEILING GRID SUPPORT SYSTEM.
12. ALL 208/120 VOLT WIRING SHALL ADHERE TO A "BLACK-RED-BLUE" COLOR CODE.
13. AT LEAST 6" OF FREE CONDUCTOR, SHALL BE LEFT AT EACH OUTLET, JUNCTION, AND SWITCH POINT FOR SPLICES OR THE CONNECTION OF FIXTURES OR DEVICES WITH THE EXCEPTION OF CONDUCTORS THAT ARE NOT SPLICED OR TERMINATED AT THE OUTLET, JUNCTION, OR SWITCH POINT.
14. ALL CIRCUIT DESIGNATIONS SHALL BE MARKED ON JUNCTION BOXES WHERE THEY SPLICE OR PASS THROUGH.
15. ALL CEILING MOUNTED 4" SQUARE JUNCTION BOXES SHALL BE 2 1/8" DEEP. DEVICE BOXES (4" SQUARE AND PLASTER RING) MAY BE 1-1/2" DEEP.
16. THE NUMBER OF CONDUCTORS IN A JUNCTION BOX SHALL BE SUBJECT TO THE PROVISIONS OF NEC ARTICLE 314.16.
17. IN WALLS OR CEILINGS WITH A SURFACE OF CONCRETE, TILE, GYPSUM, PLASTER, OR OTHER NONCOMBUSTIBLE MATERIAL, BOXES SHALL BE INSTALLED SO THAT THE FRONT EDGE OF THE BOX (OR PLASTER RING) WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". (NEC 314.20).
18. BOXES SHALL BE INSTALLED SO THE WIRING CONTAINED WITHIN IS ACCESSIBLE.
19. METAL BOXES SHALL BE GROUNDED BY AN APPROVED MEANS.
20. WHERE NAILS OR SCREWS ARE LIKELY TO PENETRATE EMT OR MC CABLE, A STEEL SLEEVE, STEEL PLATE, OR STEEL CLIP NOT LESS THAN 1/16" THICKNESS SHALL BE USED TO PROTECT THE CABLE OR TUBING.
21. MOUNTING HEIGHTS OF WALL OUTLETS AFF TO BOTTOM SHALL BE AS FOLLOWS, UOI ON PLANS: SWITCHES-48", RECEPTACLES & PHONE/DATA OUTLETS IN OFFICE AREAS-18".
22. WHERE DEVICES ARE SHOWN TO BE INSTALLED ABOVE CASEWORK OR COUNTERS, EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE CASEWORK CONTRACTOR BEFORE ROUGH-IN WORK IS COMPLETED.
23. WHERE A GFCI RECEPTACLE IS USED, THE RECEPTACLE SHALL NOT BE LOCATED ON CONCEAL THE RECEPTACLE. IT MUST BE READILY ACCESSIBLE. PROVIDE GFCI BREAKER IF RECEPTACLE AS ALTERNATIVE PROTECTION.
24. ALL FIRE BARRIER PENETRATIONS SHALL BE MADE WITH U.L. LISTED ASSEMBLIES.
25. ALL MAJOR FEEDERS SHALL BE INSTALLED UNDER SLAB/UNDERGROUND USING SCHEDULE 40 PVC WHERE ACCEPTABLE.
26. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
27. REFER TO ARTICLE 300.22 FOR WIRING IN AIR HANDLING (PLENUM) SPACES.
28. ALL SPLICES SHALL BE MADE UP TIGHT USING APPROVED MATERIALS AND "PULL TESTED" FOR INTEGRITY.
29. FLEXIBLE CORDS/CABLES SHALL BE CONNECTED TO DEVICES AND/OR FITTINGS SO THAT TENSION IS NOT TRANSMITTED TO JOINTS OR TERMINALS.
30. AN ENCLOSURE MOUNTED TO STRUCTURAL OR SUPPORTING ELEMENTS OF A SUSPENDED CEILING SHALL BE NOT MORE THAN 100 CUBIC INCHES IN SIZE AND SHALL BE SECURELY FASTENED TO THE CEILING GRID BY AN APPROVED MEANS.
31. RACEWAY CONNECTIONS TO TRANSFORMERS OR OTHER VIBRATING EQUIPMENT SHALL BE MADE USING AN APPROVED FLEXIBLE CONNECTION.
32. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AS REQUIRED FOR ALL KITCHEN EQUIPMENT. CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN. REFER TO KITCHEN PLANS.
33. WHEREVER MODULAR FURNITURE MAY BE USED, COORDINATE THE LOCATION OF RECEPTACLES WITH OPENINGS IN THE FURNITURE. THIS IS CRITICAL TO PREVENT REWORK.
34. PLAN LAYOUT SHOWN IN THESE DOCUMENTS ARE SCHEMATIC AND ARE INTENDED TO ILLUSTRATE DESIGN INTENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN INCLUDING BUT NOT LIMITED TO SERVICE ENTRY, PANEL SIZE, AND CIRCUITRY.
35. THE SCOPE OF WORK INDICATED SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING, BUT NOT LIMITED TO, THE STANDARD ELECTRIC CODE AND THE NEC (LATEST APPLICABLE EDITION).
36. THE ELECTRICAL WORK SHOWN ON THE SUBMITTED PLANS SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL SECURE AN ELECTRICAL PERMIT FOR THEIR PORTION OF THE WORK PRIOR TO INSTALLATION.
37. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
38. CONFIRM ELECTRICAL REQUIREMENTS FOR ANY OWNER SUPPLIED ITEMS PRIOR TO WIRING OR FINAL CIRCUITING.
39. SUBMIT OUT SHEETS FOR ELECTRICAL FIXTURES TO OWNER/ARCHITECT.
40. OUTLETS OF ANY TYPE SHALL NEVER BE INSTALLED BACK TO BACK. OUTLETS IN RATED WALL MUST BE INSTALLED 24" APART.
41. ALL LOW VOLTAGE WIRING, WITH EXCEPTION OF FIRE ALARM, IS THE OWNER'S RESPONSIBILITY.

## GENERAL LIGHTING NOTES

1. SEE NEC ARTICLE 410 FOR MORE INFORMATION REGARDING LIGHTING FIXTURES.
2. LIGHTING CIRCUITS ABOVE THE BAR JOIST OR IN CONCEALED AREAS MAY BE FLEXIBLE WIRING UOI.
3. LIGHT SWITCHES SHALL BE MOUNTED AT 48" TO THE BOTTOM OF THE BOX, UOI.
4. LAY IN TYPE LIGHTING FIXTURES SHALL BE SUPPORTED BY EITHER OF TWO METHODS:
  - 4.1. THEY SHALL BE SECURELY ATTACHED TO THE CEILING GRID BOLTS, SCREWS, RIVETS, OR LISTED CLIPS IDENTIFIED FOR USE WITH THE CEILING MANUFACTURER
  - 4.2. THEY SHALL BE ATTACHED TO THE BUILDING STRUCTURE BY AN INDEPENDENT MEANS (CEILING WIRE) AND COLOR CODED TO DISTINGUISH THIS SUPPORT FROM THE CEILING GRID SUPPORT SYSTEM.
5. A RECESSED LIGHTING FIXTURE THAT IS NON-TYPE IC SHALL HAVE ALL RECESSED PARTS SPACED NOT LESS THAN 1/2" FROM COMBUSTIBLE MATERIALS.
6. ALL EMERGENCY/EGRESS FIXTURES AND SIGNS MOUNTED ABOVE DOORWAYS SHALL CENTER MTD ON WALL ABOVE DOOR HEADER, UOI.
7. OUTLET BOXES OR FITTINGS INSTALLED AS REQUIRED BY ARTICLE 314.23 SHALL BE PERMITTED TO SUPPORT LIGHTING FIXTURES.
8. DURING INSTALLATION, IF AN OBVIOUS CONFLICT IS DISCOVERED BETWEEN LIGHTING FIXTURES AND OTHER BUILDING ELEMENTS (STRUCTURE, HVAC, PLUMBING, SPRINKLER, ETC.) THE CONTRACTOR HAS THE AUTHORITY TO MAKE MINOR ADJUSTMENTS TO THE FIXTURE LAYOUT, OTHER ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER OF RECORD.
9. LIGHT FIXTURES HAVE BEEN SELECTED TO BE OF PROPER CONSTRUCTION AND LISTED FOR THE ENVIRONMENT. ANY DEVIATION IN THE TYPE OR LOCATION SHALL BE APPROVED BY THE ENGINEER OF RECORD.
10. SEE ARCHITECTURAL REFLECTED CEILING PLANS (WHERE AVAILABLE) FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.
11. LIGHT FIXTURES SHALL NOT BE USED AS A RACEWAY, UNLESS LISTED AND MARKED FOR THAT PURPOSE.
12. THESE DRAWINGS SHOW THE INTENT OF THE DESIGNER. EVERY WIRE IS NOT ILLUSTRATED (EXAMPLES: WIRING BETWEEN 3-WAY SWITCHES, WIRING FOR AN EMERGENCY BALLAST, ETC.) ON THESE DRAWINGS.
13. THE INSTALLER SHOULD REFER TO THE DETAILS FOR THE PROPER WIRING OF OCCUPANCY SENSORS. COORDINATE WITH VENDOR.
14. CONDUITS, LIGHTING FIXTURES, ETC SHALL NOT BE MOUNTED DIRECTLY BELOW SMOKE/HEAT VENTS, SPRINKLER HEADS, EVAPORATOR VENTS OR SKY LIGHTS.
15. ALL OCCUPANCY SENSORS SHALL BE SET WITH A 10 MINUTE TIME OUT, WITH THE EXCEPTION OF RESTROOM SENSORS. ALL RESTROOM SENSORS SHALL BE SET WITH A 20 MINUTE TIME OUT.
16. CONTRACTOR SHALL PROVIDE ALL COMPONENTS REQUIRED FOR PROPER OPERATION OF FIXTURES.
17. CONTRACTOR SHALL REFER TO LATEST ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS.
18. ALL LIGHTING LAYOUTS ARE BASED ON REFLECTED CEILING PLANS. DO NOT ALTER THE NUMBER OF FIXTURES INDICATED ON DRAWINGS. SEE FIXTURE SCHEDULE FOR APPLICABLE NOTES.
19. CONTRACTOR SHALL PROVIDE POWER PACKS FOR OCCUPANCY SENSORS AS REQUIRED BY MANUFACTURER. PROVIDE 120V CIRCUITS FROM NEAREST 120V PANEL AS REQUIRED.
20. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES FOR OPERATION OF OCCUPANCY SENSORS, INCLUDING FOR USE WITH MECHANICAL LOADS - EXHAUST FANS.
21. CONTRACTOR SHALL CONCEAL ALL WIRES AND DEVICES WHERE POSSIBLE. IN AREAS WHERE CONCEALMENT IS NOT PRACTICAL, PROVIDE WIREMOLD PAINTED TO MATCH FINISHES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.

## GENERAL EQUIPMENT NOTES

1. CONTRACTOR SHALL PROVIDE ALL POWER CONNECTIONS AS REQUIRED FOR ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
2. CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR ALL MECHANICAL CONTROL PANELS AS REQUIRED. COORDINATE WITH MC.
3. PROPER CLEARANCE MUST BE MAINTAINED AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.28.
4. PANELBOARDS, STARTERS, DISCONNECT SWITCHES, ETC. SHALL BE INSTALLED SUCH THAT THE TOP OF THE EQUIPMENT IS 72" AFF, UOI.
5. REFER TO THE MECHANICAL/PLUMBING DRAWINGS TO VERIFY EQUIPMENT LOCATIONS AND COORDINATION OF STARTERS, DISCONNECT SWITCHES, THERMOSTATS, CONTROL WIRING, DUCT DETECTORS, ETC.

## GENERAL GROUNDING NOTES

1. THE GROUNDING SHOWN ON THESE DRAWINGS INCLUDE THE MINIMUM REQUIREMENTS. ALL THE REQUIREMENTS OF THE NEC ARTICLE 250 MUST BE MET.
2. METAL RACEWAYS FOR SERVICE CONDUCTORS AND EQUIPMENT SHALL BE GROUNDED. A METAL ELBOW THAT IS INSTALLED IN AN UNDERGROUND INSTALLATION OF RIGID NON-METALLIC CONDUIT AND IS ISOLATED FROM POSSIBLE CONTACT BY A MINIMUM COVER OF 18" TO ANY PART OF THE ELBOW SHALL NOT BE REQUIRED TO BE GROUNDED.
3. NON-CURRENT-CARRYING CONDUCTIVE MATERIALS, SUCH AS METAL CONDUIT, JUNCTION BOXES, ETC., ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE GROUNDED.
4. THE NON-CURRENT-CARRYING METAL PARTS OF SERVICE EQUIPMENT (RACEWAYS AND ENCLOSURES CONTAINING SERVICE CONDUCTORS, INCLUDING METER FITTINGS, BOXES, OR THE LIKE, INTERPOSED IN THE SERVICE RACEWAY OR ARMOR SHALL BE BONDED TOGETHER. BONDING SHALL APPLY AT EACH END AND TO ALL INTERVENING RACEWAYS, BOXES, AND ENCLOSURES BETWEEN THE SERVICE EQUIPMENT AND THE GROUNDING ELECTRODE. METHODS OF BONDING SHALL INCLUDE EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS, CONNECTIONS UTILIZING THREADED COUPLINGS OR THREADED BOSSES ON ENCLOSURES WHERE MADE UP WRENCH-TIGHT, OTHER APPROVED DEVICES, SUCH AS BONDING-TYPE LOCKNUTS AND BUSHINGS.
5. NONCONDUCTIVE COATINGS (SUCH AS PAINT, LAQUER, AND ENAMEL) ON EQUIPMENT TO BE GROUNDED SHALL BE REMOVED FROM THREADS AND OTHER CONTACT SURFACES TO ENSURE GOOD ELECTRICAL CONTINUITY OR BE CONNECTED BY MEANS OF FITTINGS DESIGNED SO AS TO MAKE SUCH REMOVAL UNNECESSARY.
6. METAL RACEWAYS, CABLE TRAYS, ENCLOSURES, FRAMES, FITTINGS, AND OTHER METAL NON-CURRENT-CARRYING PARTS THAT ARE TO SERVE AS GROUNDING CONDUCTORS, WITH OR WITHOUT THE USE OF SUPPLEMENTARY EQUIPMENT GROUNDING CONDUCTORS, SHALL BE EFFECTIVELY BONDED WHERE NECESSARY TO ENSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO CONDUCT SAFELY ANY FAULT CURRENT LIKELY TO BE IMPOSED ON THEM.
7. EXPOSED NON-CURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT LIKELY TO BECOME ENERGIZED SHALL BE GROUNDED UNDER ANY OF THE FOLLOWING CONDITIONS:
  - 7.1. WHERE WITHIN' 8' VERTICALLY OR 5' HORIZONTALLY OF GROUND OR GROUNDED METAL OBJECTS AND SUBJECT TO CONTACT BY PERSONS
  - 7.2. WHERE LOCATED IN A WET OR DAMP LOCATION AND NOT ISOLATED
  - 7.3. WHERE IN ELECTRICAL CONTACT WITH METAL
  - 7.4. WHERE SUPPLIED BY A METAL-CLAD, METAL-SHEATHED, METAL-RACEWAY, OR OTHER WIRING METHOD THAT PROVIDES AN EQUIPMENT GROUND
  - 7.5. WHERE EQUIPMENT OPERATES WITH ANY TERMINAL AT OVER 150 VOLTS TO GROUND
8. ALL GROUNDING CONDUCTORS AND BONDING JUMPERS SHALL BE ROUTED TO ENSURE SHORTEST POSSIBLE CONDUCTOR LENGTH.

BYRON B. CARSON, JR., AIA

# ARCHITECT

5134 ELMORE, SUITE 6  
MEMPHIS, TN 38134  
PH: 901.433.9492  
FAX: 901.208.8842

bcarson.carsoninc@comcast.net

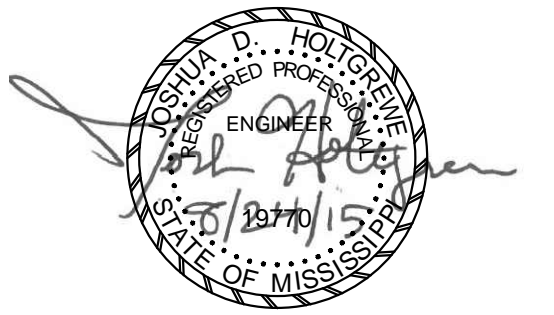
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CONSULTANTS

**HNA**  
Engineering, pllc

ISSUES & REVISIONS

NO.	DATE	DESCRIPTION
1	08/11/2015	Review Set
2	08/24/2015	Bid Set

PROJECT NAME:

PROJECT NUMBER:

DRAWING NAME:

NOTES -  
ELECTRICAL

DRAWN BY: TCH  
CHECKED BY: JDH  
DATE: 08-24-15  
SCALE: AS NOTED

DRAWING NUMBER

E003

5134 ELMORE, SUITE 6  
MEMPHIS, TN 38134  
PH: 901.433.9492  
FAX: 901.208.8842

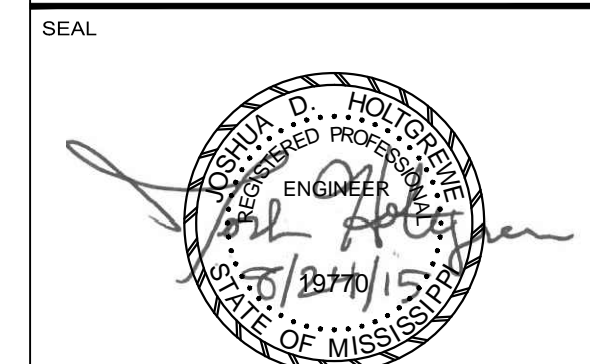
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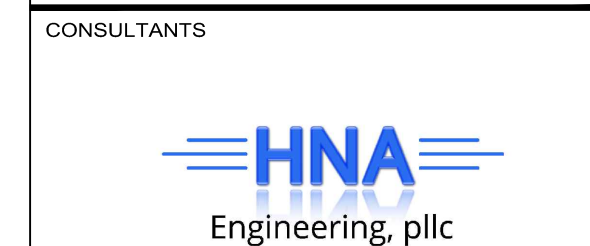
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2	08/24/2015	Bid Set

PROJECT NAME:

PROJECT NUMBER:

DRAWING NAME:

ONE LINE DIAGRAM -  
ELECTRICAL

DRAWN BY: TCH  
CHECKED BY: JDH  
DATE: 08-24-15  
SCALE: AS NOTED

DRAWING NUMBER

**E004**

ELECTRICAL ONE-LINE NOTES

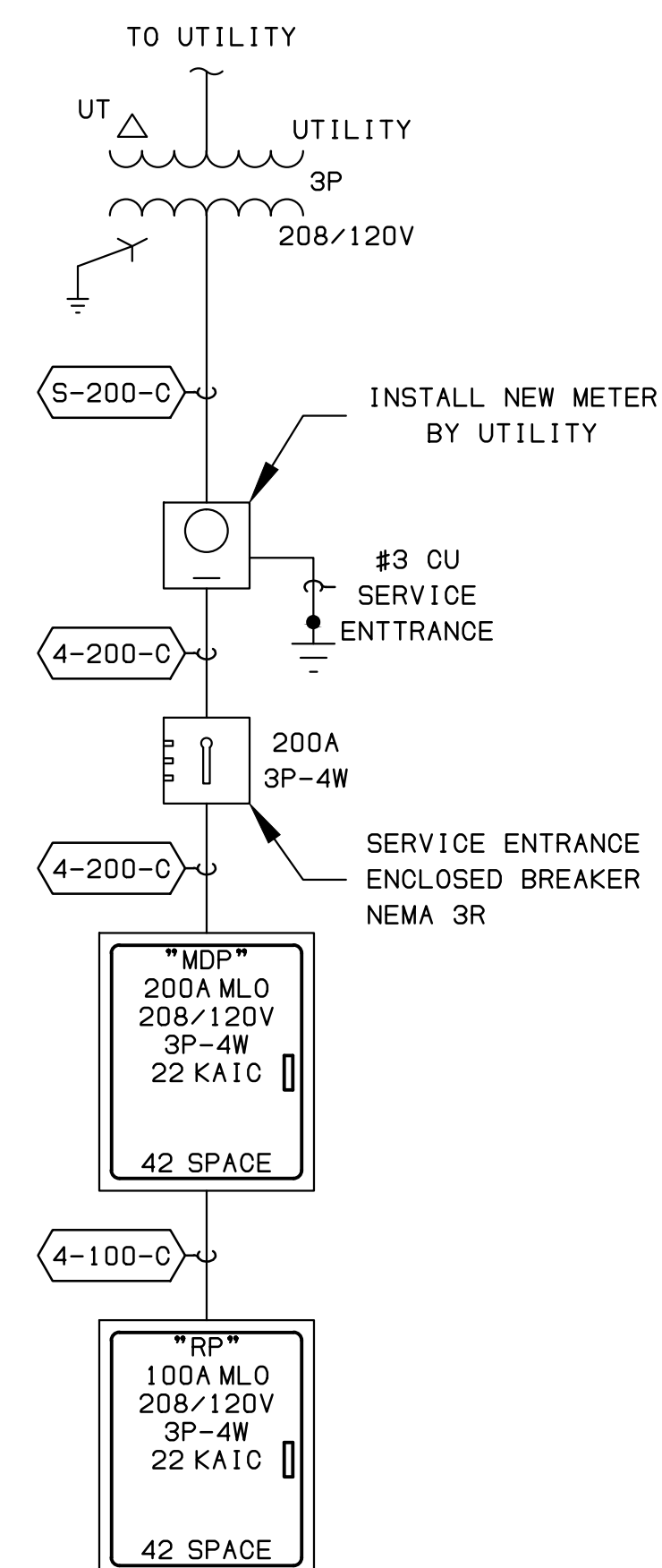
- ALL WORKING SPACE REQUIREMENTS AROUND ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.26 SHALL BE STRICTLY ADHERED TO BY ALL TRADES.
- IN ACCORDANCE WITH NEC ARTICLE 230.8, RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND DISTRIBUTION SYSTEM SHALL BE SEALED IN ACCORDANCE WITH 300.5, 6.
- ALL PANELBOARDS SHALL HAVE COPPER BUSSING.
- CONTRACTOR SHALL PROVIDE SPARE BREAKERS AS INDICATED ON PANEL SCHEDULES.
- GROUNDING SHALL BE PER NEC 250.
- ALL PANELBOARDS ARE TO EASY-TRIM TYPE.
- SWITCHBOARD AND PANELBOARD AIC RATINGS ARE PRELIMINARY. UTILITY FAULT CURRENT TBD.

SERVICE ENTRANCE NOTES

- UNDERGROUND SERVICE LATERAL CONDUCTORS MUST BE PROTECTED FROM DAMAGE IN ACCORDANCE WITH ARTICLE 300.5. UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENGAGED IN CONCRETE AND THAT ARE BURIED 18" OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON PLACED 12" ABOVE THE UNDERGROUND INSTALLATION.
- UNLESS LOCAL CODE DICTATES OTHERWISE, PVC SERVICE ENTRANCE LATERAL RACEWAY MUST BE BURIED AT LEAST 18" TO THE TOP OF THE RACEWAY UNLESS BELOW A COVERING OF AT LEAST 2" OF CONCRETE. RACEWAY COVERED UNDER 2" OF CONCRETE MUST BE BURIED AT LEAST 12" TO THE TOP OF THE RACEWAY.
- BACKFILL THAT CONTAINS LARGE ROCKS, PAVING MATERIALS, CORROSIVE MATERIAL OR ANYTHING ELSE THAT MAY CAUSE DAMAGE TO RACEWAYS OR CABLES SHALL NOT BE PLACED IN EXCAVATION.
- CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT ONE OR BOTH ENDS. SPARE OR UNUSED RACEWAYS SHALL ALSO BE SEALED. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE, INSULATION, SHIELD OR OTHER COMPONENTS.

KEYED NOTES

- 



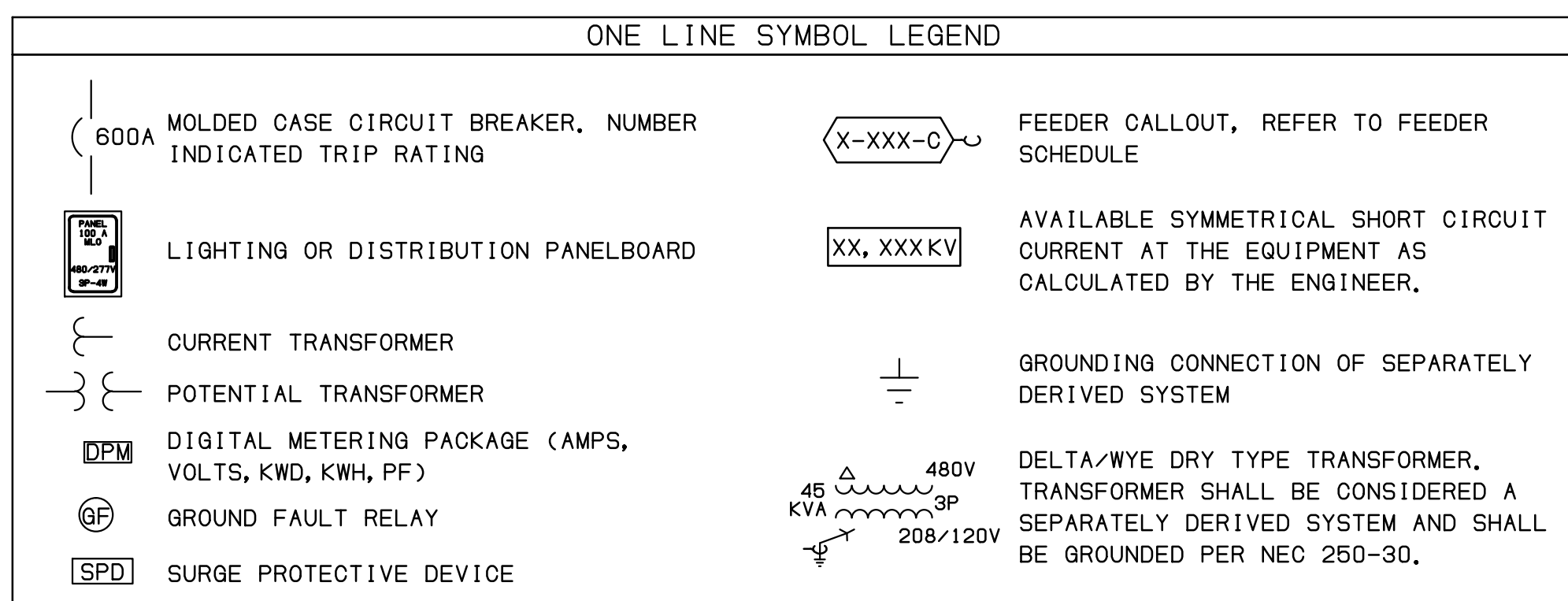
① ONE LINE DIAGRAM

FEEDER SCHEDULE (NOTE: ALL CONDUCTORS THHN / THWN U.O.N.)							
TAG #	NOMINAL AMPACITY	MINIMUM CONDUIT SIZE (IN)	NO. OF PARALLEL RUNS	MINIMUM CABLE SIZE (AWG)	MATERIAL (INCLUDES ALL CONDUCTORS)	NO. OF CONDUCTORS	EQUIP. GROUND. COND. (AWG)
3-PHASE, 4-WIRE SYSTEMS							
S-200-C	200A	2"	1	#3/0	CU	4	-
4-200-C	200A	2"	1	#3/0	CU	4	#6
4-100-C	100A	1-1/4"	1	#3	CU	4	#8

② FEEDER SCHEDULE

MDP														
ROOM		VOLTS 208Y/120V 3P 4W				AIC 22,000								
MOUNTING		BUS AMPS 200				MAIN TYPE:MLO								
FED FROM		NEUTRAL 100%				LUGS STANDARD								
NOTE														
CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD					
1	50/2	CU-1	A	B	C	2	20/1	AHU-1	A	B	C			
3			3.64	3.64		4	20/1	AHU-2	1.66	1.18				
5	30/2	CU-2			2.08	6	20/1	AHU-3			1.18			
7					2.08	8	20/1	AHU-4	1.18	2.00				
9	40/2	CU-3			2.70	10	30/2	RANGE			2.00			
11					2.70	12								
13	30/2	CU-4	2.08			14	20/2	WH-1	1.50					
15			2.08	2.08		16			1.50	1.50				
17	20/1	UH-1			0.10	18	20/1	SPARE			0.00			
19	20/1	SIGNAGE	0.18			20	20/1	SPARE	0.00		0.00			
21	20/1	SIGNAGE			0.18	22	20/1	SPARE			0.00			
23	20/1	SPARE			0.00	24	20/1	SPARE	0.00		0.00			
25	20/1	SPARE	0.00			26	20/1	SPARE	0.00		0.00			
27	20/1	SPARE			0.00	28	20/1	SPARE			0.00			
29	20/1	SPARE			0.00	30	20/1	SPARE	0.00		0.00			
31	20/1	SPARE	0.00			32	20/1	SPARE	0.00		0.00			
33	20/1	SPARE			0.00	34	20/1	SPARE			0.00			
35	20/1	SPARE			0.00	36	20/1	SPARE			0.00			
37	20/1	SPARE	0.00			38	100/3	PANEL RP	8.04	8.48				
39	20/1	SPARE			0.00	40					7.14			
41	20/1	SPARE			0.00	42					7.14			
TOTAL CONNECTED KVA BY PHASE									20.35	21.76	15.20			
			CONN. KVA			CALC. KVA			CONN. KVA			CALC. KVA		
LIGHTING			5.04			6.29 (125%)			0.93			1.16 (125%)		
LARGEST MOTOR			7.28			9.10 (125%)			0.00			0.00 (100%)		
OTHER MOTORS			22.01			22.01 (100%)			0.00			0.00 (100%)		
RECEPTACLES			18.06			14.03 (50%>10)			4.00			4.00 (100%)		
CONTINUOUS						0.75			0.94			1.25 (125%)		
HEATING						0.00			0.00			0.00 (100%)		
NONCONTINUOUS						0.00			0.00			0.00 (100%)		
KITCHEN EQUIP						4.00			4.00			4.00 (100%)		
NONCOIN/DIVERSE						0.00			0.00			0.00 (N/A)		
TOTAL KVA			57.32			56.60			57.32			56.60		
BALANCED THREE PHASE AMPS 157.10														

RP														
ROOM		VOLTS 208Y/120V 3P 4W				AIC 22,000								
MOUNTING		BUS AMPS 100				MAIN TYPE:MLO								
FED FROM		NEUTRAL 100%				LUGS STANDARD								
NOTE														
CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD					
1	20/1	CONFERENCE FLOORBOX	A	B	C	2	20/1	EXTERIOR WP REC	A	B	C			
3	20/1	CONFERENCE FLOORBOX	0.72	0.72		4	20/1	IT QUAD REC(IG)	0.54	0.36				
5	20/1	CONFERENCE REC			0.90	6	20/1	STORAGE REC			1.08			
7	20/1	BREAKROOM REC	0.18			8	20/1	KING SUITE REC	0.72					
9	20/1	BREAKROOM REC			0.36	10	20/1	KING SUITE BATHROOM REC		0.18				
11	20/1	BREAKROOM REC			0.75	12	20/1	KING SUITE SINK REC			0.36			
13	20/1	BREAKROOM REC	0.54			14	20/1	KING SUITE REFRIG	0.75					
15	20/1	PRIVATE OFFICE REC		1.26		16	20/1	LIGHTING		1.07				
17	20/1	PRIVATE OFFICE REC			0.90	18	20/1	CHANDILIER			0.18			
19	20/1	PRIVATE OFFICE REC	0.90			20	20/1	LIGHTING	1.04					
21	20/1	PRIVATE OFFICE REC			0.90	22	20/1	LIGHTING		1.01				
23	20/1	PRIVATE OFFICE REC			1.08	24	20/1	LIGHTING			0.24			
25	20/1	CORRIDOR/JUAN REC	1.08			26	20/1	LIGHTING	0.68					
27	20/1	CUBE REC		1.08		28	20/1	LIGHTING		0.64				
29	20/1	CUBE REC			0.90	30	20/1	SPARE			0.00			
31	20/1	PRINTER	0.18			32	20/1	SPARE			0.00			
33	20/1	RECEPTION DESK REC		0.72		34	20/1	SPARE			0.00			
35	20/1	WATER COOLER			0.75	36	20/1	SPARE			0.00			
37	20/1	LOBBY REC	0.72			38	20/1	SPARE	0.00		0.00			
39	20/1	CEILING FAN			0.18	40	20/1	SPARE			0.00			
41	20/1	SPARE			0.00	42	20/1	PANEL FACP			0.00			
TOTAL CONNECTED KVA BY PHASE									8.04	8.48	7.14			
			CONN. KVA			CALC. KVA			CONN. KVA			CALC. KVA		
LIGHTING			4.86			6.07 (125%)			0.75			0.94 (125%)		
LARGEST MOTOR			0.00			0.00 (125%)			0.00			0.00 (100%)		
OTHER MOTORS			0.00			0.00 (100%)			0.00			0.00 (100%)		
RECEPTACLES			18.06			14.03 (50%>10)			0.00			0.00 (N/A)		
CONTINUOUS						0.75			0.94			1.25 (125%)		
HEATING						0.00			0.00			0.00 (100%)		
NONCONTINUOUS						0.00			0.00			0.00 (100%)		
KITCHEN EQUIP						0.00			0.00			0.00 (N/A)		
NONCOIN/DIVERSE						0.00			0.00			0.00 (N/A)		
TOTAL KVA			23.67			21.04			23.67			21.04		
BALANCED THREE PHASE AMPS 58.39														





JVD OFFICE  
 SOUTHAVEN, MS

LIGHTING NOTES (E20X SERIES)

- ALL HOMERUNS, WHERE WIRE SIZE IS NOT SPECIFIED, ARE #12 AWG.
- HOMERUNS MAY APPEAR ON OTHER SHEETS WITHIN SERIES.

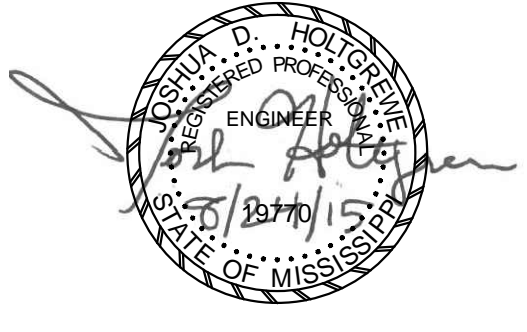
KEYED NOTES

- PROVIDE FLANGE KIT ATTACHMENT. VERIFY CEILING TYPES WITH ARCHITECT.



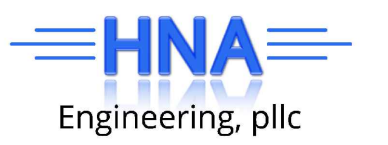
1 FIRST FLOOR PLAN - LIGHTING  
 1/4" = 1'-0"

SEAL



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CONSULTANTS



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2	08/24/2015	Bid Set

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PROJECT NUMBER:

DRAWING NAME:

FIRST FLOOR PLAN -  
 LIGHTING

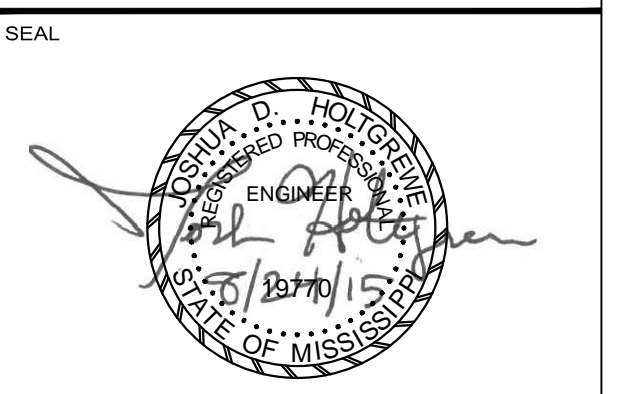
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E201

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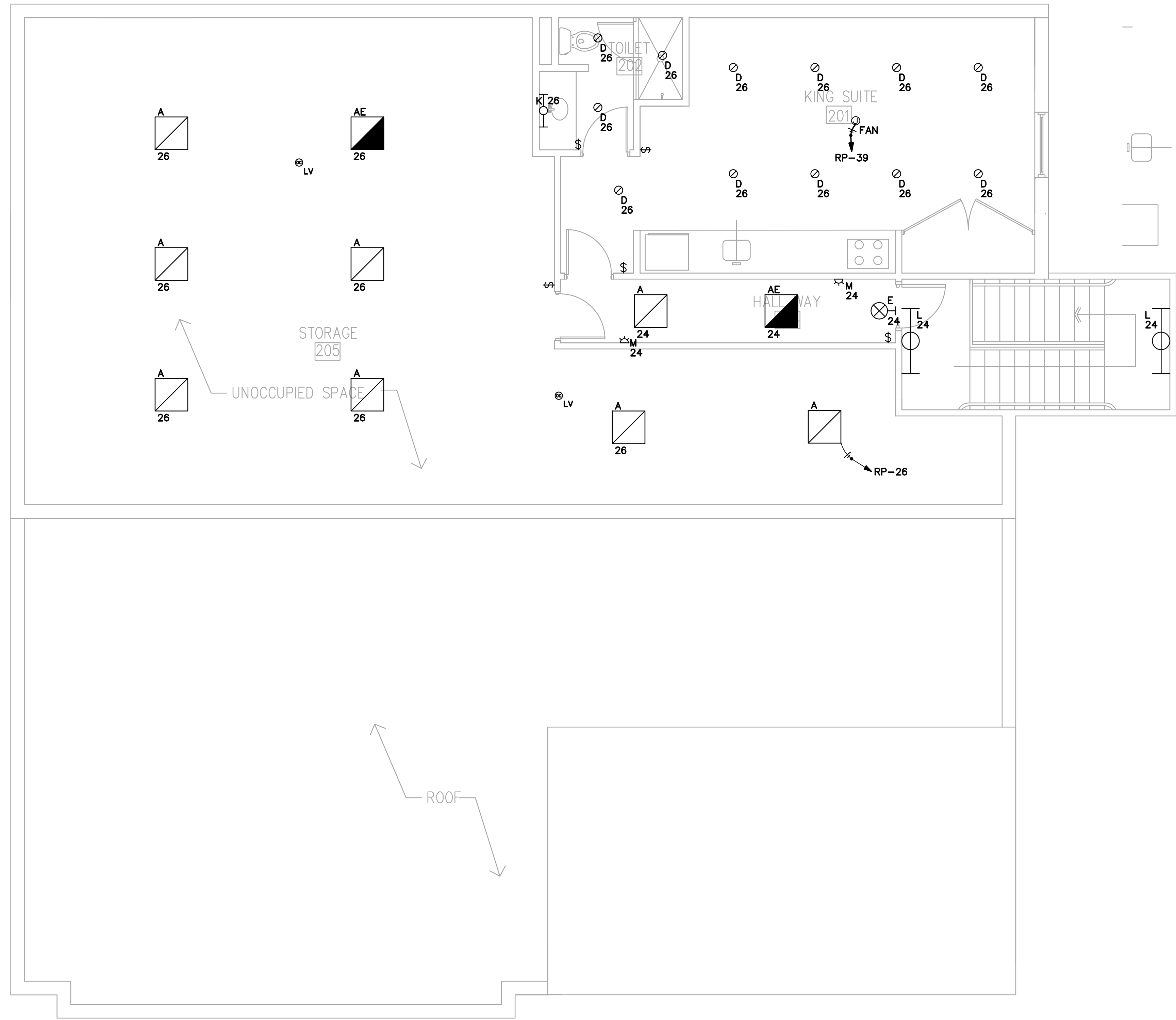
DRAWING NAME:

SECOND FLOOR PLAN -  
LIGHTING

DRAWN BY: TCH  
CHECKED BY: JDH  
DATE: 08-24-15  
SCALE: AS NOTED

DRAWING NUMBER

E202



1 SECOND FLOOR PLAN - LIGHTING  
1/4" = 1'-0"

### POWER/COMM NOTES (E30X SERIES)

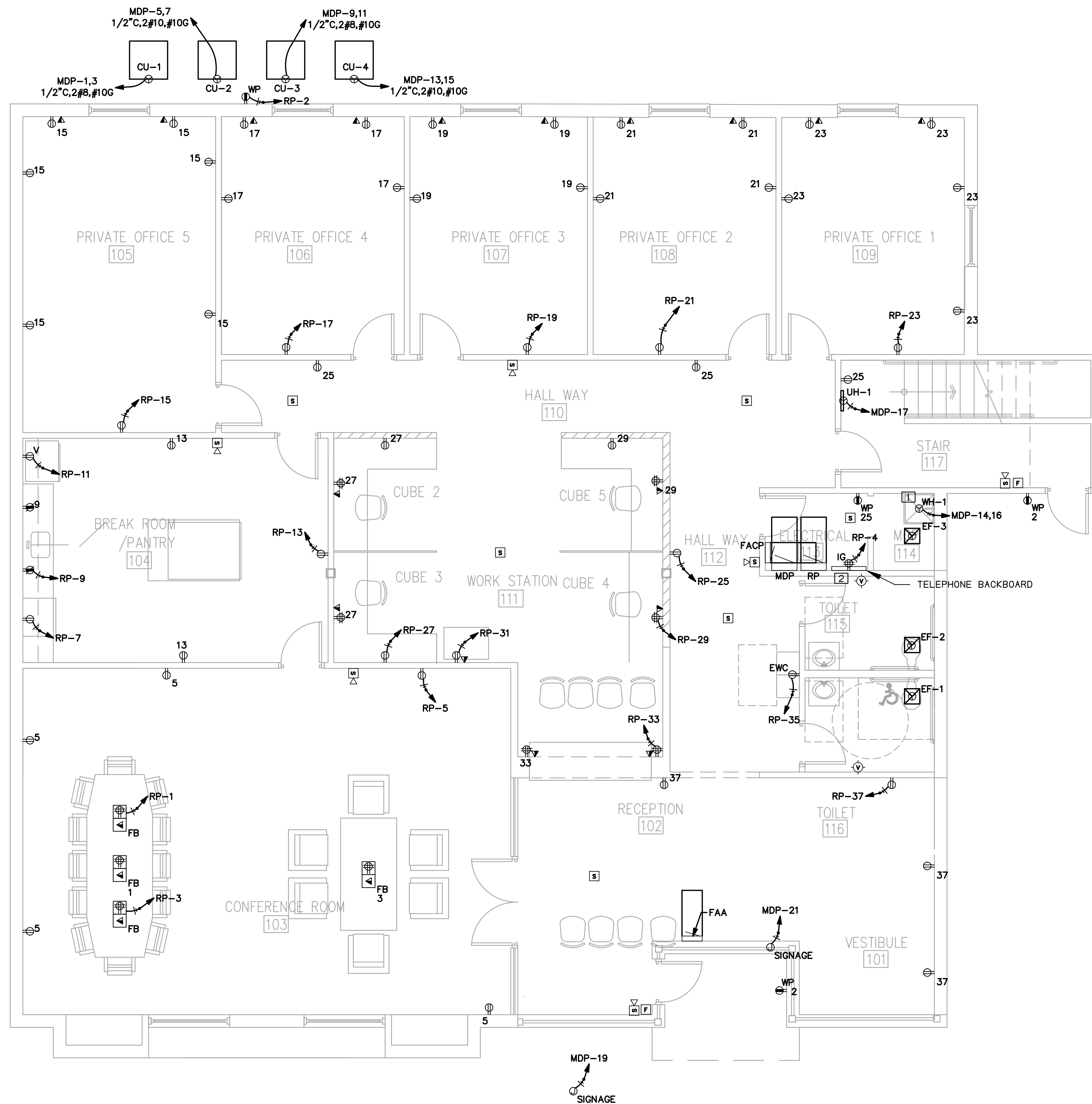
1. ALL HOMERUNS, WHERE WIRE SIZE IS NOT SPECIFIED, ARE #12 AWG.
2. HOMERUNS MAY APPEAR ON OTHER SHEETS WITHIN SERIES.
3. EXHAUST FANS "EF-1", "EF-2", "EF-3", AND "EF-4" SHALL BE CIRCUITED AND SWITCHED WITH LOCAL LIGHTING.

### KEYED NOTES

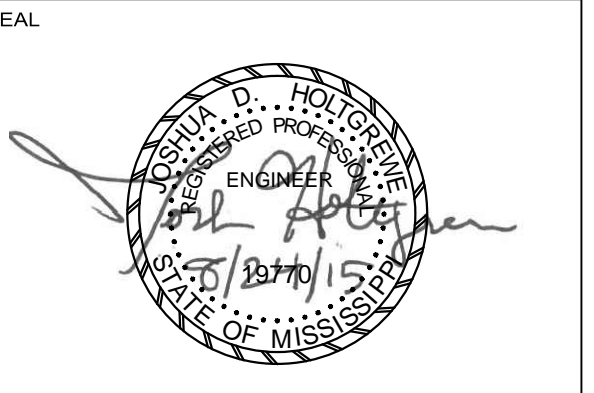
1. WATER HEATER MTD ABOVE MOP BASIN. COORDINATE EQUIPMENT HEIGHT WITH PLUMBING.
2. PROVIDE PLYWOOD TELEPHONE BACKBOARD AND GROUND BUS BAR PER DETAIL FOR IT SYSTEM.

### FIRE ALARM NOTES

1. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES OF MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURE LOCATION FOR THE LIFE OF THE SYSTEM.
2. THE FIRE ALARM CONTROL PANEL CIRCUIT BREAKER SHALL BE MARKED WITH RED PAINT, AND SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT." THE LOCATION OF THE CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL.
3. MORE THAN TWO VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW MUST FLASH IN SYNCHRONIZATION.
4. CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEMS SECONDARY POWER SOURCE LOAD CALCULATIONS PER NFPA 72 4.4.1.5.3.
5. CONTRACTOR SHALL PROVIDE A STORAGE BATTERY DEDICATED TO THE FIRE ALARM SYSTEM PER NFPA 72 4.4.1.5.
6. FIRE ALARM CONTRACTOR TO PROVIDE & WIRE ALL REQUIRED DUCT SMOKE DETECTORS, MECHANICAL TO MOUNT DETECTOR.
7. COORDINATE LOCATION OF FIRE ALARM ANNUNCIATOR PANEL WITH FIRE MARSHAL.



**1 FIRST FLOOR PLAN - POWER, COMM, & FIRE ALARM**  
 1/4" = 1'-0"



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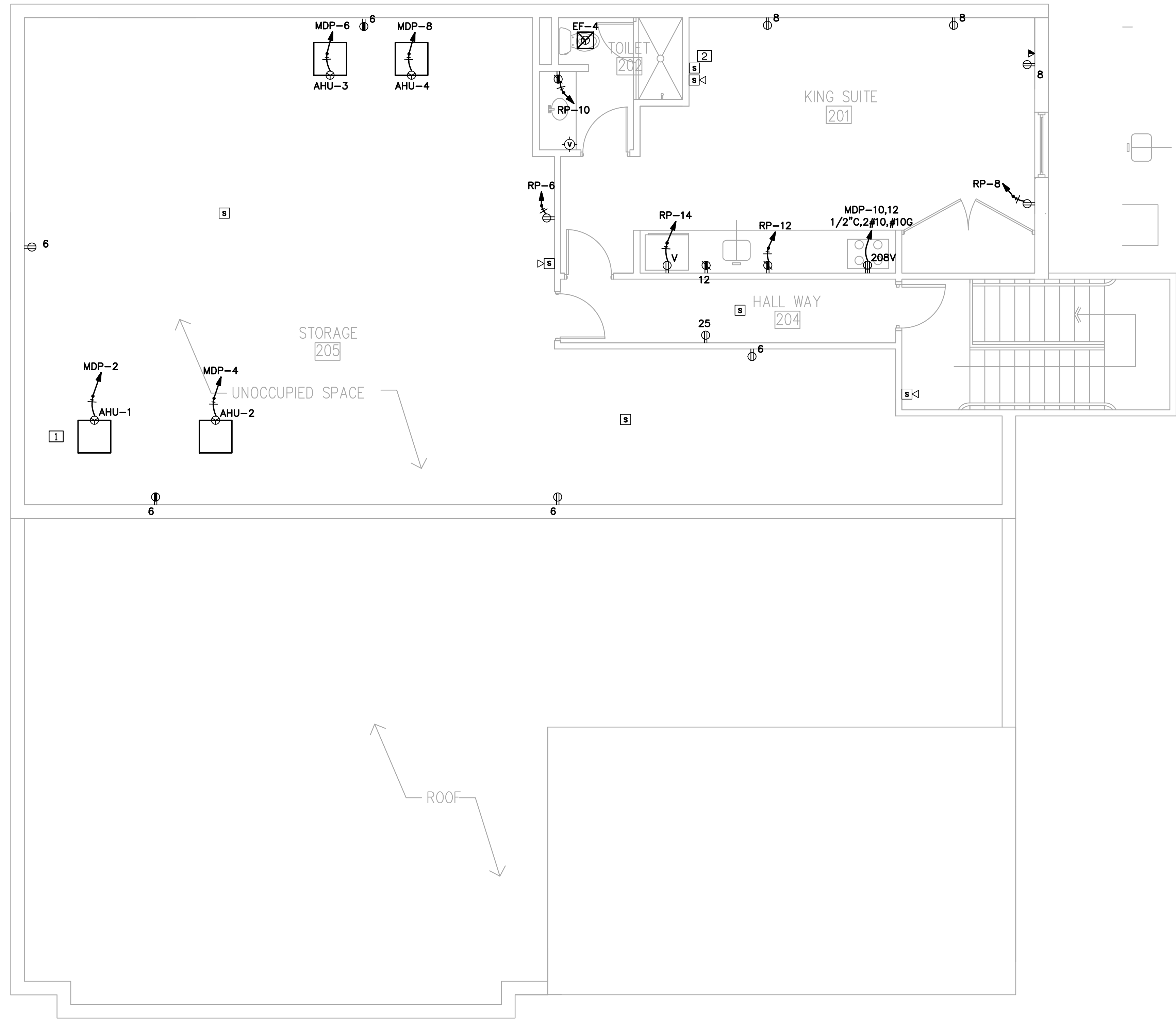
DRAWING NAME:

FIRST FLOOR PLAN -  
 POWER, COMM, & FIRE ALARM

DRAWN BY: TCH  
 CHECKED BY: JDH  
 DATE: 08-24-15  
 SCALE: AS NOTED

DRAWING NUMBER:

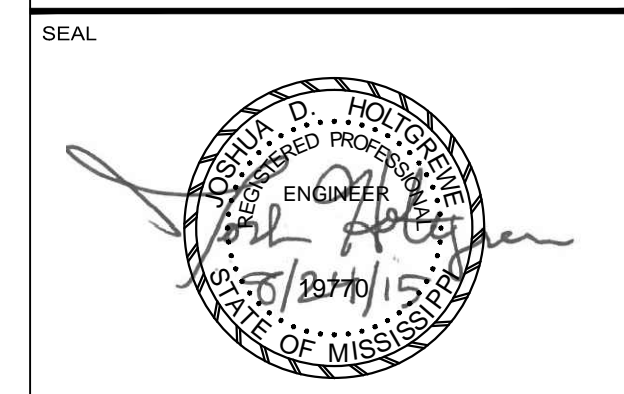




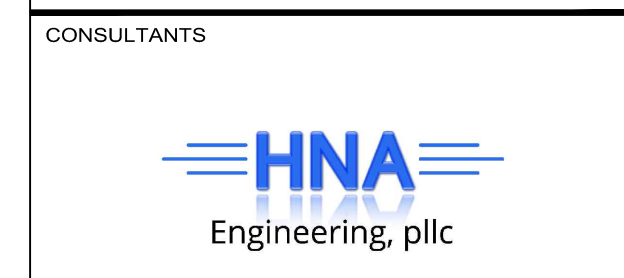
□ KEYED NOTES

1. PROVIDE AND WIRE SUPPLY SIDE DUCT DETECTOR IN AIR HANDLING UNIT. (TYP FOR 4)
2. PROVIDE AND INSTALL SMOKE DETECTOR WITH SOUNDER BASE (HOTEL STYLE).

① **SECOND FLOOR PLAN - POWER, COMM, & FIRE ALARM**  
 1/4" = 1'-0"



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ISSUES & REVISIONS

NO.	DATE	DESCRIPTION
1	08/11/2015	Review Set
2	08/24/2015	Bid Set

PROJECT NAME:  
 PROJECT NUMBER:  
 DRAWING NAME:  
 SECOND FLOOR PLAN -  
 POWER, COMM, & FIRE ALARM

DRAWN BY: TCH  
 CHECKED BY: JDH  
 DATE: 08-24-15  
 SCALE: AS NOTED

DRAWING NUMBER  
**E302**