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GENERAL NOTES AND SPECIFICATIONS

- A. GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- B. COMPLY WITH THE NEC, STATE, AND LOCAL CODES.
- C. USE ONLY COPPER CONDUCTORS AS NOTED. MINIMUM SIZE #12 AWG. USE TYPE THHN, UON. ALL CIRCUITS SHALL BE COLOR CODED.
- D. USE MINIMUM 1/2" CONDUIT. USE 3/4" MINIMUM GALVANIZED COATED WITH ASPHALTUM OR SCHEDULE 40 PVC IN CONCRETE BELOW GRADE. FOR PVC, TRANSITION TO RIGID BEFORE EMERGING FROM BELOW. USE EMT WHERE CONCEALED IN WALLS AND CEILINGS. USE RIGID IN SLAB AND UNDERGROUND.
- E. USE STAINLESS STEEL DEVICE COVER PLATES, UON.
- F. SUBMIT 6 COPIES OF SHOP DRAWINGS.
- G. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED, COMMERCIAL GRADE.
- H. USE HUBBELL WIRING DEVICES AS FOLLOWS:
 SWITCHES - 15 AMP, #1201-1, 1202-1, 1203-1
 SWITCHES - 20 AMP, #1221-1, 1222-1, 1223-1, 1224-1
 SWITCHES - MOTOR STARTERS, USE SQUARE D CLASS 2510
 RECEPTACLES - 15 AMP, #5252-1, 5262-1 FOR GENERAL PURPOSES.
 RECEPTACLES - 20 AMP, S063H-1 FOR SAFETY TYPE.
 RECEPTACLES - GFCI, GF5262-1 (15A), GF5362-1 (20A).
- I. ALL WIRING MUST BE IN CONDUIT.
- J. EQUIPMENT OUTSIDE MUST BE WEATHERPROOF. USE HEAVY DUTY DISCONNECT SWITCHES.
- K. CONDUIT OUTSIDE MUST BE GALVANIZED STEEL OR PVC, AS NOTED ABOVE.
- L. USE 6' MAXIMUM LENGTH OF FLEXIBLE CONDUIT TO FIXTURES.
- M. FLUORESCENT FIXTURES SHALL HAVE HOLD DOWN CLIPS.
- N. REMOVE TEMPORARY WIRING UPON COMPLETION OF WORK. REMOVE UNUSED EXISTING WIRING UPON COMPLETION OF WORK.
- O. USE BUSS TYPE LPS OR LPN FUSES FOR MOTORS AND EQUIPMENT. USE BUSS TYPE KTS OR KTN FUSES FOR PANEL AND TRANSFORMER FEEDERS.
- P. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES, MECHANICAL EQUIPMENT AND EQUIPMENT FURNISHED BY OWNER PRIOR TO ROUGH-IN.
- Q. FLUORESCENT LAMPS SHALL BE ENERGY SAVING TYPE T8, 3500 DEGREES KELVIN, UON. PHILLIPS, GENERAL ELECTRIC, OR SYLVANIA.
- R. FLUORESCENT FIXTURES SHALL BE FURNISHED WITH ENERGY SAVING ELECTRONIC BALLASTS.
- S. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. USE 1/2" SEALTITE FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT.
- T. PANELBOARDS SHALL BE GENERAL ELECTRIC, CUTLER-HAMMER, SIEMENS, OR SQUARE D, UON.
- U. TELEPHONE TERMINAL BOARD SHALL BE 3/4"x4"x8' A-D PLYWOOD PAINTED WITH TWO COLORS OF FLAT GRAY ENAMEL. PROVIDE #6 GND. TO MAIN GROUNDING ELECTRODE.
- V. VERIFY LOCATION OF PANELBOARDS AND SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN.
- W. CONTRACTOR SHALL COORDINATE NEW SERVICE REQUIREMENTS WITH THE LOCAL POWER COMPANY AND FURNISH THEM LOAD INFORMATION. FURNISH SERVICE TO TRANSFORMER AS REQUIRED BY THE POWER COMPANY.
- X. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN THAN SHOWN.
- Y. ALL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.
- Z. INSTALL CONTROL WIRING IN MINIMUM 1/2" CONDUIT FOR ALL HVAC UNITS TO THERMOSTATS AND ROOFTOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
- AA. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
- BB. AIR COOLED DRY TYPE TRANSFORMER SHALL BE SQUARE D, CUTLER-HAMMER, SIEMENS, OR GENERAL ELECTRIC. TRANSFORMER IS TO MEET NEMA ST20 WITH RATINGS AS INDICATED. EQUIP FOR MOUNTING AS INDICATED.
- CC. LIGHTING CONTACTORS ARE TO BE 20A NEMA ICS2, MECHANICALLY HELD WITH COIL VOLTAGE AS INDICATED. POLES AS INDICATED, PLUS 2 SPARE. ENCLOSURE TO BE ANSI/NEMA ICS 6, TYPE 1. SQUARE D, GENERAL ELECTRIC, AND ASCO ARE ACCEPTABLE.
- DD. TIME CLOCKS ARE TO BE 40A, NEMA ICS, 7 DAY TIMER WITH ASTRONOMICAL DIAL AND 12 HOUR SPRING CARRY OVER. PROVIDE WITH 3 POLES IN ANSI/NEMA ICS 6, TYPE 1 ENCLOSURE. ACCEPTABLE ARE TORK (7200ZL/7302ZL), PARAGON OR INTERMATIC EQUALS.
- EE. PHOTOELECTRIC CONTROL SHALL BE FIXED MOUNTED, SPST, WITH 2 MINUTE DELAY AND 2000 WATT CONTACT RATING. INSTALL IN A DIE CAST, WEATHERPROOF ENCLOSURE.
- FF. RECEPTACLES IN WET LOCATIONS SHALL BE INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE". THERE MUST BE A GASKET BETWEEN THE ENCLOSURE AND THE MOUNTING SURFACE, AND BETWEEN THE COVER AND BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. ENCLOSURE MUST BE MANUFACTURED BY TAYMAC CORPORATION OR EQUAL.
- GG. FLUORESCENT LAMP EMERGENCY POWER SUPPLY SHALL BE ONE LAMP AS SCHEDULED ON THE PLANS PROVIDING 1100-1400 LUMENS, MINIMUM. THE BATTERY SHALL BE A NICKEL CADMIUM TYPE, RATED FOR A TEN YEAR LIFE. INCLUDE TEST SWITCH AND AC ON INDICATOR LIGHT, INSTALLED TO BE OPERABLE AND VISIBLE FROM THE OUTSIDE OF AN ASSEMBLED LUMINAIRE.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		MOUNTING	REMARKS
			VOLT	QTY		
A	IMPACT ARCH LIGHTING	IMAGO LED	120	--	LED	SURFACE PENDANT
B	IMPACT ARCH LIGHTING	i.ROD LED	120	--	LED	SURFACE PENDANT
C	EUREKA LIGHTING	MEHA 4029-UAC	120	--	LED	SURFACE PENDANT
D	HALO	PD6-30-DO10-PDM6A-835-61V-C	120	--	LED	RECESSED CAN LIGHT
D2	HALO	PD6-30-DO10-PDM6A-835-61V-C	120	--	LED	RECESSED EXTERIOR CAN LIGHT
E	EDGE LIGHTING	LYRA 96" LED	120	--	LED	SURFACE PENDANT
F	IMPACT ARCH LIGHTING	i.DROP 18" LED	120	--	LED	SURFACE PENDANT
G	METALUX	22ALN-G-LD4-35-UNV-L835-CD-1	120	--	LED	RECESSED 2x2 LAY-IN
GE	METALUX	22ALN-G-LD4-35-UNV-EL14W-L835-CD-1	120	--	LED	RECESSED 2x2 LAY-IN W/BATTERY PACK
H	METALUX	SSF-232-UNV-EBB1-WG/SSF-4FT	120	2	32W T8	SURFACE 4' STRIP
H1	METALUX	SSF-225-UNV-EBB1-WG/SSF-3FT	120	2	25W T8	SURFACE 3' STRIP
J	DUAL-LITE	PG-HTR	120	--	LED	WALL EXTERIOR EMERGENCY LIGHT
⊗	COOPER	LPX-6	120	--	LED	SURFACE EXIT

BRANCH CIRCUITING LEGEND

→	A-1	ONE 1-POLE CKT HOMERUN TO PANEL A
→→→	A-1,3	TWO 1-POLE CKT HOMERUNS TO PANEL A
→→→→	A-1,3,5	THREE 1-POLE CKT HOMERUNS TO PANEL A
→→	A-1/3	ONE 2-POLE CKT HOMERUN TO PANEL A
→→→	A-1/3,2/4	TWO 2-POLE CKT HOMERUNS TO PANEL A
→→→→	A-1/3/5	ONE 3-POLE CKT HOMERUN TO PANEL A

NOTE: ALL MULTI-WIRE BRANCH CIRCUITS TO COMPLY WITH 2011 NEC 210.4

FIRE ALARM SYSTEM LEGEND

SYMBOL	DESCRIPTION	MTG. HGT.
□	FIRE ALARM MANUAL PULL STATION	
⊙	FIRE ALARM CEILING MOUNTED SMOKE DETECTOR	
⊙	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	
⊗	FIRE ALARM FLASHING LIGHT/HORN	
⊗	FIRE ALARM FLASHING LIGHT	
FCP	FIRE ALARM CONTROL PANEL	
ESA	FIRE ALARM ANNUCIATOR PANEL	
⊗	FIRE ALARM FLOW DETECTOR/SWITCH	
⊗	FIRE ALARM TAMPER DETECTOR/SWITCH	
⊗	FIRE ALARM POST INDICATOR VALVE	

GENERAL ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG. HGT.
○	CEILING OUTLET, SURFACE FIXTURE	
⊗	CEILING OUTLET, SURFACE FIXTURE w/BATTERY BACK UP	
⊙	CEILING OUTLET, RECESSED FIXTURE	
⊙	CEILING OUTLET, RECESSED FIXTURE w/BATTERY BACK UP	
○	BRACKET OUTLET	
□	SURFACE FLUORESCENT LIGHTING FIXTURE	
□	RECESSED FLUORESCENT LIGHTING FIXTURE	
— —	FLUORESCENT STRIP LIGHT FIXTURE	
⊗	FLOODLIGHT FIXTURE	
□	AREA OR STREET LIGHTING FIXTURE	
⊙	BOLLARD STYLE AREA LIGHTING FIXTURE	
⊗	EXIT LIGHT, ARROWS AS SHOWN	
⊗	EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	
S	SINGLE POLE SWITCH	48" AFF
S3	THREE-WAY SWITCH	48" AFF
S4	FOUR-WAY SWITCH	48" AFF
Sd	DIMMER SWITCH - SLIDE TYPE, WATTAGE AS REQUIRED	48" AFF
Sfc	SWITCH FOR CEILING FAN	48" AFF
⊕	DUPLEX GROUNDING RECEPTACLE	18" AFF
⊕	DUPLEX GROUNDING RECEPTACLE	ABC
⊕	FLOOR RECEPTACLE	
⊕	SINGLE RECEPTACLE	18" AFF
⊕	DOUBLE DUPLEX GROUNDING RECEPTACLE	18" AFF
⊕	DOUBLE DUPLEX GROUNDING RECEPTACLE	ABC
TV	RECEPTACLE FOR TELEVISION	6" BLW CLG
⊕	208 VOLT RECEPTACLE, COORDINATE NEMA TYPE AND ALL REQUIREMENTS WITH EQUIPMENT	18" AFF
⊕	JUNCTION OR PULL BOX	
⊕	MOTOR, E.F. DENOTES EXHAUST FAN	
Sm	MANUAL MOTOR STARTER OR RELAY CONTROL	
⊗	MAGNETIC MOTOR STARTER OR TERMINAL CONNECTION	
□	SAFETY SWITCH, WP INDICATES NEMA 3R, FUSED, U.O.N.	
■	LIGHTING OR POWER PANEL	
▨	MAIN OR SUB-DISTRIBUTION PANEL	
□	TRANSFORMER	
TC	TIME CLOCK - SEE SPECS	
□	CONTACTOR - SEE SPECS	
PE	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
—	CONDUIT, CONCEALED IN CEILING OR WALL	
— — —	CONDUIT, CONCEALED IN SLAB OR BELOW FLOOR/GRADE	
----	CONDUIT, EXPOSED	
—○—	CONDUIT, TURNING UP	
—●—	CONDUIT, TURNING DOWN	
—T—	CONDUIT, TELEPHONE SYSTEM	
—EP—	CONDUIT, ELECTRICAL PRIMARY	
—ES—	CONDUIT, ELECTRICAL SECONDARY	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
ABC	ABOVE COUNTER	
UC	UNDERCOUNTER	
UON	UNLESS OTHERWISE NOTED	
TTB	TELEPHONE TERMINAL BOARD	
TVSS	TRANSIENT VOLTAGE SURGE PROTECTOR	
⊕	MULTI USE OUTLET FOR VOICE, DATA, VIDEO (1" C. TO ABOVE CEILING)	18" AFF
⊕	TELEPHONE OUTLET, WALL MOUNTED	48" AFF
⊕	MULTI USE OUTLET FOR VOICE, DATA, VIDEO ABOVE COUNTER (1" C. TO ABOVE CEILING)	ABC
TV	TELEVISION OUTLET (3/4" C. TO ABOVE CEILING)	6" BLW CLG
⊕	FLOOR RECEPTACLE	
⊕	TELEPHONE FLOOR OUTLET, SEE SPECS	
OS	CEILING MOUNTED OCCUPANCY SENSOR	
PP	POWER PACK	
IG	ISOLATED GROUND (PROVIDE INDIVIDUAL NEUTRAL, ISOLATED GROUND & EQUIP. GROUND)	



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NEW BUILDING FOR

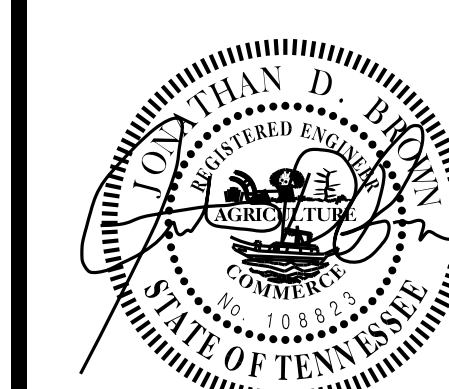
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Revisions

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Drawing
ELECTRICAL LEGENDS
AND SCHEDULES

E6.0