

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. MINIMUM SIZE #12 AWG. USE TYPE THHN. UON. ALL CIRCUITS SHALL BE COLOR CODED.
- D. USE MINIMUM 1/2 INCH CONDUIT. USE 3/4 INCH 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, #5638-1 FOR SAFETY TYPE.  
 RECEPTACLES - GFCI, #5262-1 (15A), #5362-1 (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.
- 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. METAL HALIDE LAMPS SHALL BE GENERAL ELECTRIC OR SYLVANIA.
- T. USE "PATE" PIPE SEALS FOR CONDUIT THROUGH ROOF. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT. USE 1/2 INCH SEALTITE FLEXIBLE CONDUIT FOR VIBRATING EQUIPMENT.
- U. PANELBOARDS SHALL BE GENERAL ELECTRIC OR SQUARE D, UON.
- V. TELEPHONE TERMINAL BOARD SHALL BE 3/4"X2'X 2' A-D PLYWOOD PAINTED WITH TWO COLORS OF FLAT GRAY ENAMEL. PROVIDE #6 GND. TO MAIN GROUNDING ELECTRODE.
- W. VERIFY LOCATION OF PANELBOARDS AND SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN.
- X. CONTRACTOR SHALL COORDINATE NEW SERVICE REQUIREMENTS WITH THE LOCAL POWER COMPANY AND FURNISH THEM LOAD INFORMATION. FURNISH SERVICE TO TRANSFORMER POLE AS REQUIRED BY THE POWER COMPANY.
- Y. DO NOT INSTALL MORE CONDUCTORS IN A BRANCH CIRCUIT HOMERUN THAN SHOWN.
- Z. ALL WORK SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.
- AA. FURNISH AND INSTALL SILENT KNIGHT FIRE ALARM SYSTEM COMPONENTS AS FOLLOWS:  
 CONTROL PANEL - 5820XL  
 HORN/STROBE - P-241575W, FLUSH, 6'-8" AFF  
 PULL STATION - SD-500PS, FLUSH, TOP 48" AFF  
 PHOTOELECTRIC SMOKE DETECTORS - SD-505 APS  
 DUCT DETECTORS - SD-505 ADH  
 STROBES - S-241575W
- BB. INSTALL CONTROL WIRING IN MINIMUM 1/2" CONDUIT FOR ALL FAN TERMINAL UNITS TO THERMOSTATS AND ROOFTOP UNITS, ETC. SEE MECHANICAL CONTROL AND MANUFACTURER'S DRAWINGS.
- CC. USE SEALTITE FLEXIBLE CONDUIT FOR EXTERIOR EQUIPMENT.
- DD. USE MINIMUM #14 AWG COLOR CODED CONDUCTORS FOR FIRE ALARM SYSTEM, INSTALLED IN CONDUIT. SUBMIT WIRING DIAGRAMS ON FLOOR PLANS.
- EE. 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.
- FF. 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.
- GG. PHOTOELECTRIC CONTROL SHALL BE FIXED MOUNTED, SPST, WITH 2 MINUTE DELAY AND 2000 WATT CONTACT RATING. INSTALL IN A DIE CAST, WEATHERPROOF ENCLOSURE.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS			MOUNTING	REMARKS
			VOLT	QTY	TYPE		
A	COLUMBIA	ST84-432G-FSA12-EB8-120	120	4	32W T8	RECESSED	2X4 LAY-IN
B	DUAL LITE	LZ30	120	--	INCL.	SURFACE	EMERGENCY WALL PAK w/BATTERY
C	COLUMBIA	CS4-232-EB8-120-CSWG4	120	2	32W T8	SURFACE	4' STRIP w/WIREGUARD
D	LITHONIA	KVF-400M-ASYFL-DGYG	120	1	400W MH	SURFACE	EXTERIOR WALL PAK
E	LITHONIA	ELA-DNA-T-DMC-H212 w/IND12100-W-SEL BATTERY	120	--	INCL.	SURFACE	EMERGENCY EGRESS BATTERY ABOVE CLG
F	ARCHITECTURAL AREA LIGHTING	UCS-WND-STR-50MH-MTB-ST5-WCV	120	1	50W MH	SURFACE	EXTERIOR
⊗	DUAL LITE	LT-U-R-W-0	120	--	INCL.	SURFACE	LED EXIT w/BATTERY

GENERAL ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTG. HGT.
○	CEILING OUTLET, SURFACE FIXTURE	
⊙	CEILING OUTLET, RECESSED FIXTURE	
⊖	BRACKET OUTLET	
▭	RECESSED FLUORESCENT LIGHTING FIXTURE	
— —	FLUORESCENT STRIP LIGHT FIXTURE	
⊗	EXIT LIGHT, ARROWS AS SHOWN, ON LIFE SAFETY CIRCUIT	
⊗	EMERGENCY LIGHT WALL MOUNTED AT 7'-6" AFF, UON	
S	SINGLE POLE SWITCH	48" AFF
⊕	DUPLEX GROUNDING RECEPTACLE	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	
TC	TIME CLOCK - SEE SPECS	
CT	CONTACTOR - SEE SPECS	
PE	PHOTO-ELECTRIC SWITCH - AIM NORTHEAST, SEE SPECS	
WP	WEATHERPROOF	
G	GROUND FAULT CURRENT INTERRUPTING	
AFF	ABOVE FINISHED FLOOR	
UON	UNLESS OTHERWISE NOTED	
EDF	ELECTRIC DRINKING FOUNTAIN	
W/H	WATER HEATER	
R.T.U.	ROOF TOP UNIT	
U.H.	UNIT HEATER	
FBO	FURNISHED BY OTHERS	
TTB	TELEPHONE TERMINAL BOARD	
FCP	FIRE ALARM CONTROL PANEL, TOP CONTROL AT 5'	
⊗-⊗	FIRE ALARM FLOW DETECTOR/SWITCH	
⊗-⊗	FIRE ALARM TAMPER DETECTOR/SWITCH	

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

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**SMALL SHOPS 'H'**  
CANTON MARKETPLACE  
CANTON, GEORGIA

PERMIT SET  
01-04-08

REV	DATE

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ELECTRICAL SCHEDULES & LEGENDS

**E-5**  
MJM job# 07134

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