

**LIGHTING**

- BRANCH CIRCUIT  
2x4 FLUORESCENT FIXTURE  
TYPE AS SCHEDULED  
ASSOCIATED CONTROL DEVICE
- 1x4 FLUORESCENT FIXTURE
- 2x2 FLUORESCENT FIXTURE
- FIXTURE WIRED TO UNSWITCHED EMERGENCY CIRCUIT
- FIXTURE WIRED TO UNSWITCHED NORMAL CIRCUIT
- FIXTURE WIRED TO SWITCHED EMERGENCY CIRCUIT
- DOWN LIGHT
- TRACK LIGHTING
- FLUORESCENT STRIP
- WALL MOUNTED FIXTURES
- WALL WASH LIGHT FIXTURE
- EXIT SIGN, CEILING MOUNTED  
ARROW INDICATES EGRESS DIRECTION  
SHADING INDICATES SIGN FACE
- EXIT SIGN, WALL MOUNTED  
SHADING INDICATES SIGN FACE
- DUAL HEAD EMERGENCY LIGHT BATTERY PACK  
TD - TIME DELAY RESET
- REMOTE EMERGENCY LIGHTING HEAD
- POLE MOUNTED SITE LIGHTING FIXTURE  
TYPE AS SCHEDULED
- BOLLARD TYPE SITE LIGHTING FIXTURE
- FLOOD LIGHT
- WALL PACK
- SINGLE POLE TOGGLE SWITCH  
INDICATES CONTROLLED FIXTURE
- 3-WAY TOGGLE SWITCH
- 4-WAY TOGGLE SWITCH
- DUAL LEVEL SWITCHING (NOTE \*)
- DIMMER SWITCH, INCANDESCENT OR FLUORESCENT AS REQUIRED.
- TOGGLE SWITCH WITH PILOT LIGHT
- TIMER SWITCH, SPRING WOUND
- SINGLE POLE DOUBLE THROW TOGGLE SWITCH, CENTER POSITION OFF
- WEATHER PROOF
- EXPLOSION PROOF
- TIME CLOCK
- LIGHTING CONTACTOR
- PHOTOELECTRIC CONTROL
- UNSWITCHED CONTINUATION OF BRANCH CIRCUIT
- HOME RUN
- OCCUPANCY SENSOR  
1. NORMAL ANGLE  
2. WIDE ANGLE  
3. 360° COVERAGE
- OCCUPANCY SENSOR RELAY

**POWER**

- NON-FUSED SAFETY SWITCH  
NEMA ENCLOSURE RATING  
AMPERE RATING
- FUSED SAFETY SWITCH, TOP NUMBER INDICATES SWITCH AMPERE RATING, LOWER NUMBER INDICATES FUSE RATING  
NEMA ENCLOSURE RATING
- MAGNETIC MOTOR STARTER, FVNR UNLESS INDICATED OTHERWISE  
NEMA ENCLOSURE RATING (TYPICAL)  
NEMA SIZE
- COMBINATION CIRCUIT BREAKER/MAGNETIC MOTOR STARTER  
NUMBER INDICATES CIRCUIT BREAKER AMPERE RATING/NEMA STARTER SIZE
- COMBINATION FUSED DISCONNECT/MAGNETIC MOTOR STARTER  
NUMBER INDICATES DISCONNECT AMPERE RATING/FUSE RATING/NEMA STARTER SIZE
- NON-FUSED DISCONNECT/MAGNETIC MOTOR STARTER  
NUMBER INDICATES DISCONNECT AMPERE RATING/NEMA STARTER SIZE
- MANUAL MOTOR STARTER, TOGGLE OPERATED, 1, 2 OR 3 POLE AS REQUIRED
- MANUAL MOTOR SWITCH, TOGGLE OPERATED, SINGLE PHASE, 1 OR 2 POLE AS REQUIRED (NO OVERLOAD PROTECTION)
- ENCLOSED CIRCUIT BREAKER
- ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER RATING
- EXPLOSION PROOF MOTOR
- VARIABLE AIR VOLUME CONTROL ACTUATORS
- LOCAL SELECTOR SWITCH  
H/O/A - HAND/OFF/AUTO
- EMERGENCY OFF STATION
- PUSH BUTTON STATION
- JUNCTION BOX
- TRANSFORMER
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- EY CONDUIT SEAL
- DUPLEX RECEPTACLE, NEMA 5-20R,  
INSTALLED ON EMERGENCY CIRCUIT (TYPICAL)
- GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE ISOLATED GROUND DUPLEX RECEPTACLE, NEMA 5-20R
- SINGLE RECEPTACLE, NEMA 5-20R
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
- HOSPITAL GRADE DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
- SWITCHED RECEPTACLE
- FLOOR OUTLET, DUPLEX RECEPTACLE, NEMA 5-20R
- POWER RECEPTACLE, 480 VOLT NEMA CONFIGURATION AS NOTED.
- POWER RECEPTACLE, 240 VOLT NEMA CONFIGURATION AS NOTED.
- PANELBOARD, NORMAL POWER
- PANELBOARD, EMERGENCY POWER

**COMMUNICATION & DATA SYSTEMS**

- TELEPHONE SYSTEM WALL JACK, MOUNT 18" AFF.  
W-INDICATES WALL MOUNTED AT 60" AFF.  
P-INDICATES PAYPHONE.
- DATA SYSTEM OUTLET, MOUNT 18" AFF.
- VOICE/DATA SYSTEM OUTLET
- TELEVISION
- CATV TELEVISION SYSTEM OUTLET, MOUNT 84" AFF UNLESS OTHERWISE NOTED.
- PAGING SYSTEM CONTROL PANEL AND PAGING AMPLIFIER
- PAGING SYSTEM SPEAKER, CEILING MOUNTED.
- PAGING SYSTEM SPEAKER, WALL MOUNT AT 7'-6" AFF.
- VOLUME CONTROL
- CLOCK SPEAKER
- WALL MOUNTED CLOCK
- UNDERFLOOR VOICE & DATA OUTLET
- CEILING DATA OUTLET
- DOOR CONTACT
- CARD READER
- KEY PAD
- CLOSED CIRCUIT TELEVISION CAMERA
- ELECTRIC STRIKE

**SECURITY SYSTEMS**

- DOOR CONTACT
- CARD READER
- KEY PAD
- CLOSED CIRCUIT TELEVISION CAMERA
- ELECTRIC STRIKE

**ONE LINE DIAGRAM**

- MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER
- LOW VOLTAGE DRAWOUT CIRCUIT BREAKER  
AF - AMP FRAME  
AT - AMP TRIP  
EO - ELECTRICALLY OPERATED
- MOLDED CASE CIRCUIT BREAKER
- ST - SHUNT TRIP  
GF - GROUND FAULT  
EO - ELECTRICALLY OPERATED
- DISCONNECT, ISOLATION OR SAFETY SWITCH
- FUSED CUTOUT
- FUSED LOAD BREAK SWITCH
- MEDIUM VOLTAGE MOTOR STARTER
- MAGNETIC MOTOR STARTER, NUMERICAL INDICATES NEMA SIZE  
FVNR - FULL VOLTAGE REVERSING  
RVAT - REDUCING VOLTAGE AUTO TRANSFORMER  
2S - TWO SPEED
- CAPACITOR
- VARIABLE FREQUENCY DRIVE
- POWER TRANSFORMER  
OA - LIQUID TYPE SELF COOLED  
AA - DRY TYPE SELF COOLED  
FA - FAN COOLED CONNECTION
- SHIELDED ISOLATION TRANSFORMER
- POTENTIAL TRANSFORMER  
RATIO  
NUMBER REQUIRED
- CURRENT TRANSFORMER  
RATIO  
NUMBER REQUIRED
- GROUND FAULT CURRENT TRANSFORMER
- MOTOR, NUMBER INDICATES HORSEPOWER
- GENERATOR
- AUTOMATIC TRANSFER SWITCH
- METER  
A - AMMETER  
V - VOLTMETER  
W - WATTMETER  
WH - WATT HOURMETER  
KWH - KILOWATT HOUR  
VAR - VAR METER  
HZ - FREQUENCY METER  
PF - POWER FACTOR METER
- DIGITAL POWER METER
- METER TRANSFER SWITCH  
AS - AMMETER SWITCH  
VS - VOLTMETER SWITCH
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- LIGHTING ARRESTER
- KEY INTERLOCK
- FUSE
- ELECTRONIC POWER FUSE
- DRAWOUT DEVICE
- GROUND

**ABBREVIATIONS**

- AAMP AMPERE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION
- AIC AMPERE INTERRUPTING CAPACITY
- AWG AMERICAN WIRE GAUGE
- BFG BELOW FINISHED GRADE
- BOS BOTTOM OF STEEL
- C CONDUIT, CONDUCTOR
- CATV CABLE TELEVISION
- CB CIRCUIT BREAKER
- CCTV CLOSED CIRCUIT TELEVISION
- CPT CONTROL POWER TRANSFORMER
- CT CURRENT TRANSFORMER
- CU COPPER
- DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER
- DB DIRECT BURRIED
- DISC DISCONNECT
- DN DOWN
- EMT ELECTRICAL METALLIC TUBING
- EWG ELECTRIC WATER COOLER
- FAA FIRE ALARM ANNUNCIATOR
- FAFAC FIRE ALARM CONTROL PANEL
- FBO FURNISHED BY OTHERS
- FU FUSE
- FWE FURNISHED WITH EQUIPMENT
- GEN GENERATOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GND GROUND
- HP HORSE POWER
- HTR HEATER
- IG ISOLATED GROUND
- IMC INTERMEDIATE METAL CONDUIT
- K KILO
- KV KILOVOLT
- KVA KILOVOLT-AMPERE
- KVAR KILOVOLT AMPERE REACTIVE
- KW KILOWATT
- KWH KILOWATT-HOUR
- LA LIGHTNING ARRESTER
- LTG LIGHTING
- MC METAL CLAD
- MCB MAIN CIRCUIT BREAKER
- MFR MANUFACTURER
- MI MINERAL INSULATED
- MLO MAIN LUG ONLY
- MTD MOUNTED
- MV MEDIUM VOLTAGE
- NC NORMALLY CLOSED
- NEG NEGATIVE
- NEUT NEUTRAL
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- PF POWER FACTOR
- PH PHASE
- PVC POLYVINYL CHLORIDE
- RSC RIGID STEEL CONDUIT
- RTD RESISTANCE TEMPERATURE DETECTOR
- SN SOLID NEUTRAL
- STP SHIELDED TWISTED PAIR
- STT SHIELDED TWISTED TRIPLET
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- TOS TOP OF STEEL
- TRANSF TRANSFORMER
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- V VOLT
- VIA VOLT-AMPERE
- VAR VOLT-AMPERE REACTIVE
- WM WATT METER
- WP WEATHER PROOF
- XP EXPLOSION PROOF

**GENERAL NOTES:**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
2. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
3. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT.
4. UNLESS OTHERWISE NOTED WIRING SHALL BE 2 #12 AWG CONDUCTORS & #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG.
5. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE 120/277 VOLT, SIDE WIRED AND PROVIDED WITH GROUNDING SCREW, 20 OR 30 AMP AS REQUIRED. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
6. PROVIDE WALL PLATES FOR ALL WIRING DEVICES, NYLON SMOOTH TYPE IN FINISHED AREAS AND GALVANIZED IN UNFINISHED AREAS.
7. UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION.
8. IN OPEN OFFICE AREAS PENDANT MOUNT FIXTURES TO BE WIRED SUCH THAT EVERY OTHER FOUR FOOT SECTION TO BE SWITCHED TOGETHER TO ALLOW FOR TWO LEVELS OF LIGHTING.

**LIGHT FIXTURE SCHEDULE**

TYPE	DESCRIPTION	MFR.	LAMPS	MOUNTING	NOTES
A	8' DIRECT/INDIRECT FIXTURE W/ 3" PROFILE. FIXTURES TO HAVE ROUNDED ENDCAP.	FINELITE SERIES 5	1-F54T5 HO 3500K	AIR CRAFT CABLE	MOUNT 7'-9" AFF, PROVIDE W/DUAL CIRCUITING OPTION

**GENERAL NOTE**

1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.

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<b>LEGEND, GENERAL NOTES &amp; LIGHT FIXTURE SCHEDULE</b>		
SHEET TITLE:	1/8"=1'-0"	DATE: 5-21-03
PROJECT MANAGER: JLH	GRAPHIC SCALE: 0" = 1'	
JOB CAP/DRAWN: RJL/JAC		
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