

LUMINAIRE SCHEDULE						
CALLOUT	DESCRIPTION	MOUNTING	MODEL	LAMP	BALLAST	VOLTS
A	LED 2X4 TROFFER	RECESSED	CREE LIGHTING CR24-40L-40K-23	(1) 14W LED, 4000K	LED DRIVER	120V 1P 2W
B	LED 2X2 TROFFER	RECESSED	CREE LIGHTING CR22-32L-40K-23	(1) 35W LED, 4000K	LED DRIVER	120V 1P 2W
C	6" LED DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR AND DIMMING DRIVER	RECESSED	CREE LIGHTING KR-6-30L-40K-120V-LES	(1) 39W LED, 4000K	LED DRIVER	120V 1P 2W
D	6" LED DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR	RECESSED	CREE LIGHTING KR-6-30L-40K-120V	(1) 39W LED, 4000K	LED DRIVER	120V 1P 2W

GENERAL NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING ELEVATION PLANS FOR EXACT LOCATION AND MOUNTING LOCATIONS OF ALL LIGHT FIXTURES.
- REFER TO THE ARCHITECTURAL PLANS AND ELEVATIONS, INCLUDING MILLWORK ELEVATIONS, FOR DETAILED LOCATIONS OF ELECTRICAL TELEPHONE/COMMUNICATION AND POWER OUTLETS.
- SEE THE MECHANICAL PLANS FOR EXACT LOCATIONS OF THE MECHANICAL EQUIPMENT.
- PRIOR TO ROUGH IN, COORDINATE THE INSTALLATION OF EQUIPMENT WITH THE MANUFACTURER'S INSTALLATION AND MAINTENANCE REQUIREMENTS.
- ALL RACEWAYS AND CABLES ARE TO CONTAIN A GREEN INSULATED COPPER GROUNDING CONDUCTOR.
- RACEWAYS ARE 2#12,#12G-3/4" UNLESS OTHERWISE NOTED. HACHURES OR CALLOUT INDICATE NUMBER OF CIRCUIT CONDUCTORS, INCLUDING NEUTRALS, WHEN MORE THAN TWO CIRCUIT CONDUCTORS ARE REQUIRED.
- MULTIWIRE CIRCUITS SHALL NOT BE SUBSTITUTED FOR SINGLE CIRCUITS. A SEPARATE NEUTRAL SHALL BE RUN FOR EACH CIRCUIT.
- RECEPTACLES WITHIN 3'-0" OF SINK SHALL BE GFCI PROTECTED. IN ALL OTHER AREAS RECEPTACLES WITHIN 6'-0" OF SINK SHALL BE GFCI PROTECTED.
- 20A, 120V HOMERUNS BETWEEN 75 FEET AND 150 FEET IN LENGTH ARE TO BE #10 CONDUCTORS. 20A, 120V HOMERUNS BETWEEN 150 FEET AND 250 FEET IN LENGTH ARE TO BE #8 CONDUCTORS. SIMILAR FOR 277V, 480V TO COMPLY WITH NEC.
- CONDUCTOR DERATING FOR TEMPERATURE SHALL BE APPLIED PER N.E.C. 310-15.
- THE MAXIMUM NUMBER OF CURRENT CARRYING CONDUCTORS IN ANY ONE CONDUIT SHALL BE LIMITED TO SIX. IN LIGHTING CIRCUITS FOR FLUORESCENT FIXTURES, THE NEUTRAL SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR.
- IF CIRCUITS SHOWN ARE NOT AVAILABLE FOR USE, USE NEXT AVAILABLE SPARE STARTING AT CIRCUIT 42 AND WORKING BACKWARDS. PROVIDE AS-BUILT DOCUMENTATION.
- LABEL ALL ELECTRICAL EQUIPMENT CONNECTED TO THE ESSENTIAL SYSTEM AS PER NEC 70 AND NFPA.
- OUTLET BOXES, JUNCTION BOXES SHALL NOT BE INSTALLED IN A MANNER SIDE BY SIDE OR BACK TO BACK THAT WILL IMPACT SMOKE TIGHT BARRIERS, SOUND TRANSITION, ETC. PER AHJ OR LOCAL CODES.
- PROVIDE FIRE RATED COVERS OR ON ALL LIGHT FIXTURES INSTALLED IN FIRE RATED CEILING. REFER TO ARCHITECTURAL RCP AND LIFE SAFETY PLAN FOR CEILING INFORMATION. REFER TO ARCH DOCUMENTS FOR COVER INFORMATION.
- ANY LIGHT FIXTURE INSTALLED IN INSULATION SHALL BE IC RATED OR SHALL HAVE A PERMANENT BARRIER INSTALLED AROUND IT TO MAINTAIN 3 INCHES OF AIR SPACE ON ALL SIDES AND TOP OF FIXTURE OR THE DISTANCE RECOMMENDED BY MANUFACTURER, WHICHEVER IS GREATER.
- COORDINATE LIGHT FIXTURE MOUNTING HARDWARE WITH ARCHITECTURAL RCP PRIOR TO ORDERING.

GENERAL DEMOLITION NOTES:

- REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN.
- SEE THE ARCHITECT'S GENERAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND LIMIT OF CONSTRUCTION.
- THE PLANS DO NOT SHOW ALL THE EQUIPMENT WHICH IS TO BE DEMOLISHED.
- REMOVE THE EXISTING LIGHTING FIXTURES WITHIN THE SPACE WHERE NOTED. RETAIN EXISTING BRANCH CIRCUIT TO BE REUSED.
- REMOVE THE EXISTING WIRING DEVICES WHERE NOTED. RETAIN THE RECEPTACLE BRANCH CIRCUIT WIRING AND RACEWAY TO BE REUSED.
- REMOVE ANY ABANDONED RACEWAY, WIRING, AND DATA AND COMMUNICATION WIRING BACK TO ITS SOURCE, WHICH ARE LOCATED WITHIN SCOPE OF WORK AREA.
- MAINTAIN/RESTORE ANY EXISTING CIRCUITS SERVING DEVICES WHICH MAY BE ON THE SAME CIRCUIT AS DEVICES INDICATED TO BE REMOVED.
- EXISTING EQUIPMENT MAY NOT BE REMOVED FROM THE PREMISES WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE ARCHITECT. THE FINAL DISPOSITION OF DEMOLISHED EQUIPMENT SHALL BE DETERMINED BY FACILITY STAFF.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE SWITCH		EMERGENCY SIMPLEX RECEPTACLE		TELEPHONE OUTLET
	CEILING FAN SPEED/LIGHT SWITCH		EMERGENCY DUPLEX RECEPTACLE		WALL MOUNTED TELEPHONE OUTLET
	THREE WAY SWITCH		EMERGENCY QUAD RECEPTACLE		DATA OUTLET
	FOUR WAY SWITCH		FLOOR MOUNTED RECEPTACLE		TELEPHONE/DATA OUTLET
	KEYED SWITCH		SPECIAL PURPOSE RECEPTACLE		FLOOR MOUNTED DATA OUTLET
	WALL DIMMER SWITCH		DROP CORD RECEPTACLE		FLOOR MOUNTED TELEPHONE OUTLET
	LOW VOLTAGE SWITCH		SURFACE MOUNTED RACEWAY		SPEAKER (CEILING MOUNTED)
	SPEAKER VOLUME CONTROL SWITCH		FLOOR BOX		MICROPHONE OUTLET
	SWITCH WITH PILOT LIGHT		JUNCTION BOX		TELEVISION OUTLET COORDINATE MTG
	TIMER SWITCH		JUNCTION BOX WALL MOUNTED		FIRE ALARM CONTROL PANEL
	OCCUPANCY CEILING SENSOR		HARDWIRE CONNECTION TO ELECTRIFIED FURNITURE SYSTEM		FIRE ALARM ANNUNCIATION PANEL
	OCCUPANCY WALL MOUNTED SENSOR		GENERATOR		GENERATOR ANNUNCIATION PANEL
	LOWER CASE LETTERS INDICATE SWITCH DESIGNATION		TELEPHONE/DATA CONNECTION TO ELECTRIFIED FURNITURE SYSTEM		EMERGENCY POWER OFF
	FLUORESCENT LIGHT FIXTURE		TELE-POWER POLE		NURSE CALL CONTROL PANEL
	FLUORESCENT STRIP FIXTURE		GENERATOR		NURSE CALL PATIENT STATION
	RECESSED DOWNLIGHT		MOTOR		NURSE CALL EMERGENCY STATION
	WALL MOUNTED LIGHT FIXTURE		PANELBOARD		NURSE CALL DUTY STATION
	WALL WASHER		TRANSFORMER		NURSE CALL MASTER
	FIXTURE FED BY LIFE SAFETY BRANCH		CONDUIT AND HOMERUN TO PANELBOARD		NURSE CALL STAFF STATION
	FIXTURE FED BY CRITICAL BRANCH		GROUND FAULT METERING		NURSE CALL LOCATOR STATION
	EXIT LIGHT FIXTURE		UNIT HEATER		NURSE CALL CODE BLUE
	WALL MOUNTED EXIT LIGHT FIXTURE		BUS DUCT TAP CIRCUIT BREAKER		NURSE CALL DOME LIGHT
	EMERGENCY BATTERY PACK		ENCLOSED CIRCUIT BREAKER		NURSE CALL/BED COMMUNICATIONS INTERFACE OUTLET
	NIGHT LIGHT		ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP		INTERCOM OUTLET
	UNDERCABINET LIGHT		DISCONNECT/SAFETY SWITCH UNFUSED, FUSED		INTERCOM MASTER
	POLE LIGHT		COMBINATION MAGNETIC MOTOR STARTER/SAFETY SWITCH		SECURITY CAMERA
	GROUND		MAGNATIC MOTOR STARTER		ELECTRIC STRIKE
	GROUND ROD		MANUAL MOTOR STARTER		KEY PAD
	MOUNTED ABOVE COUNTER		SWITCH AND FUSE UNIT		KEY INTERLOCK
	SIMPLEX RECEPTACLE		FEEDER NUMBER		AUTODOOR PUSH PAD
	DUPLEX RECEPTACLE		AUTOMATIC TRANSFER SWITCH		FIRE ALARM DOOR HOLD OPENING DEVICE
	QUAD RECEPTACLE				TIME CLOCK
	GROUND FAULT INTERRUPTER RECEPTACLE				PHOTOCELL ELECTRIC
	ISOLATED GROUND RECEPTACLE				CONNECT TO EXISTING
	TAMPER RESISTANT RECEPTACLE				WI-FI TRANSMITTER
	RECEPTACLE FOR TV COORDINATE MTG				

NOTE: ALL SYMBOLS ARE NOT NECESSARILY USED ON THESE DRAWINGS. REFER TO THE ARCHITECT'S DRAWINGS FOR ADDITIONAL SYMBOLS.

ELECTRICAL ABBREVIATIONS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPS OR AMPERE	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MAFC	MAKE ALL FINAL CONNECTIONS
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AHU	AIR HANDLING UNIT	MCC	MOTOR CONTROL CENTER
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT OR METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUG ONLY
C	CONDUIT	KW	KILOWATT
CB	CIRCUIT BREAKER	MTD	MOUNTED
CKT	CIRCUIT	MTG	MOUNTING
CT	CURRENT TRANSFORMER	N	NEUTRAL
CUH	CABINET UNIT HEATER	NC	NORMALLY CLOSED
DWG	DRAWINGS	NCAP	NURSE CALL ANNUNCIATOR PANEL
ECB	ENCLOSED CIRCUIT BREAKER	NCCP	NURSE CALL CONTROL PANEL
EF	EXHAUST FAN	NEC	NATIONAL ELECTRICAL CODE
ETR	EXISTING TO REMAIN	NFSS	NON-FUSED SAFETY SWITCH
EWC	ELECTRIC WATER COOLER	NO	NORMALLY OPEN
EWB	ELECTRIC WATER HEATER	P	POLE OR POLES
EX.	EXISTING	PVC	POLYVINYL CHLORIDE
F	FUSE	RAP	REMOTE ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL	RECEPT	RECEPTACLE
FCU	FAN COIL UNIT	S/T	SHUNT TRIP
FSS	FUSED SAFETY SWITCH	SWBD	SWITCHBOARD
GFI	GROUND FAULT INTERRUPTER	SWGR	SWITCHGEAR
GRD	GROUND	TTB	TELEPHONE TERMINAL BOARD
H-O-A	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HID	HIGH INTENSITY DISCHARGE	UON	UNLESS OTHERWISE NOTED
HP	HORSE POWER	V	VOLTS OR VOLTAGE
HPS	HIGH PRESSURE SODIUM	W	WIRE
HZ	HERTZ	W/	WITH
IMC	INTERMEDIATE METAL CONDUIT	WP	WEATHERPROOF
IG	ISOLATED GROUND	XFMR	TRANSFORMER
JB	JUNCTION BOX	XP	EXPLOSION PROOF
KV	KILOVOLT	#	NUMBER
KVA	KILOVOLT-AMPERE	Ø	PHASE

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ELECTRICAL CONVENTIONS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SECTION DESIGNATION - LETTER/NUMBER DENOTES SECTION IDENTIFICATION INDICATES DRAWING NUMBER WHERE SECTION IS DRAWN		INDICATES SPACE OR POLE NUMBER BRANCH CIRCUIT HOMERUN TO PANELBOARD, SWITCHBOARD, MCC PANELBOARD DESIGNATION
	DETAIL DESIGNATION - LETTER/NUMBER DENOTES DETAIL IDENTIFICATION INDICATES DRAWING NUMBER WHERE DETAIL IS DRAWN		INDICATES NUMBER OF SWITCHES IN GROUP LIGHT TOGGLE SWITCH DENOTES SWITCH DESIGNATION
	ELECTRICAL EQUIPMENT DENOTED BY DASHED, HEAVY LINEWEIGHT SHALL BE DISPOSED OF, UNLESS INDICATED TO BE REUSED OR TURNED OVER TO THE OWNER		DUPLEX RECEPTACLE
	ELECTRICAL EQUIPMENT DENOTED BY LIGHT, SOLID LINEWEIGHT SHALL BE EXISTING TO REMAIN, UNLESS INDICATED OTHERWISE		INDICATES CIRCUIT DESIGNATION
	ELECTRICAL EQUIPMENT DENOTED BY HEAVY, SOLID LINEWEIGHT SHALL BE NEW WORK PROVIDED BY CONTRACTOR		LIGHTING FIXTURE TYPE (REFER TO SCHEDULE) LIGHTING FIXTURE
	DRAWING NOTE		INDICATES SWITCH DESIGNATION
	GENERAL NOTE - APPLIES TO ALL SHEETS WITHIN THE ELECTRICAL DRAWING SET		FEEDER NUMBER (REFER TO FEEDER SCHEDULE)

100% ISSUE FOR CONSTRUCTION

Revisions	Date		2201 N Collins, Suite 295 Arlington, Texas 76011-2659 (817) 461-0337 Fax: (817) 461-1025 E: info@fei-engineering.com MECHANICAL • ELECTRICAL • PLUMBING		Architecture ■ Planning ■ Interior Design 4949 Addison Circle ■ Addison, Texas 75001	Seal 	Seal	Drawing Title ELECTRICAL SYMBOL LEGEND, GENERAL NOTES & SCHEDULES	Approved: Area Project Manager	Project Title VA BONHAM CHAPLAIN'S OFFICE RENOVATION	Date 05/30/14	Project No. 549-3C-1528	Building Number 2	Checked SLT	Drawn AOP	Drawing No. E001	Dwg. of		VANTHCS Dallas, Texas