

ELECTRICAL ABBREVIATIONS

1FH	SINGLE-PHASE	GTB	GROUND TERMINAL BOX
1P	SINGLE POLE	HIA	HIGH INTENSITY DISCHARGE
2/C	TWO-CONDUCTOR	HOD	HAND-OFF-AUTOMATIC
3/C	THREE-CONDUCTOR	HP	HORSEPOWER
3PH	THREE-PHASE	HT	HEIGHT
4/C	FOUR-CONDUCTOR	HZ	HERTZ
4W	FOUR-WIRE	IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
A/C UNIT	AIR CONDITIONING UNIT	IMC	INTERMEDIATE METAL CONDUIT
A/E	ARCHITECT/ENGINEER	INCAND	INCANDESCENT
AAP	ALARM ANNUNCIATOR PANEL	IR	INFRARED
AC	ALTERNATING CURRENT OR ARMORED CABLE	IWH	INSTANTANEOUS WATER HEATER
ACC	ACCESSIBLE	J-BOX	JUNCTION BOX
ADD	ADDITIONAL	KV	KILOVOLT
ADJ	ADJACENT, ADJOINING	KVA	KILOVOLT AMPERE
ADO	AUTOMATIC DOOR OPENER	KVAH	KILOVOLT AMPERE PER HOUR
AF	AMPERE FRAME OR AMP FUSE	KVAR	KILOVOLT AMPERE REACTIVE
AFG	ABOVE FINISHED FLOOR	KW	KILOWATT
AFH	ABOVE FINISHED GRADE	KWH	KILOWATT HOUR
AH	AMPERE HOUR	KWHM	KILOWATT HOUR METER
AHJ	AUTHORITY HAVING JURISDICTION	LED	LIGHT EMITTING DIODE
AIC	AMPERE INTERRUPTING CAPACITY	LF	LINEAR FEET (FOOT)
ALT	ALTERNATE	LM	LUMEN
AMB OR A	AMBIENT	LP	LIGHT POLE
AMP	AMPERE	LPS	LOW PRESSURE SODIUM
ARCH	ARCHITECT	LRA	LOCKED ROTOR AMPS
ASC	AMPS SHORT CIRCUIT	LTC	LOCAL TEMPERATURE CONTROL PANEL
AT	AMPERE TRIP	LT	LIGHT
ATS	AUTOMATIC TRANSFER SWITCH	LTG	LIGHTING
AUTO	AUTOMATIC	LTG PNL	LIGHTING PANEL
AV	AUDIO VISUAL	LTNG	LIGHTNING
BAT	BATTERY	LV	LOW VOLTAGE
BC	BARE COPPER	MATV	MASTER ANTENNA TELEVISION SYSTEM
BD	BOARD	MAX	MAXIMUM
BFF	BELOW FINISH FLOOR	MC	METAL-CLAD
BIL	BASIC INSULATION LEVEL	MCA	MINIMUM CIRCUIT AMPS
BLDG	BUILDING	MCB	MAIN CIRCUIT BREAKER
BPIP	BOILER PLANT INSTRUMENTATION PANEL	MCC	MOTOR CONTROL CENTER
BRKR	BREAKER	MDP	MAIN DISTRIBUTION PANEL
BY	BY PASS	MECH	MECHANICAL
C	CONDUIT	MG	MOTOR GENERATOR
CAB	CABINET	MH	MANHOLE
CALC	CALCULATE	MIN	MINIMUM
CAP	CAPACITY	MOCP	MAXIMUM OVERCURRENT PROTECTION
CAT	CATALOG	MLO	MAIN LUGS ONLY
CATV	COMMUNITY ANTENNA TELEVISION	MT	MOUNT
CCR	CONTROL CONTACTOR	MTD	MOUNTED
CCTV	CLOSED CIRCUIT TELEVISION	MTG	MOUNTING
cd	CANDELA	MTS	MANUAL TRANSFER SWITCH
CD	CONSTRUCTION DOCUMENTS	MV	MEDIUM VOLTAGE
CF	CONTRACTOR FURNISHED	MVA	MEGAVOLT-AMPERE
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	MW	MEGAWATT MICROWAVE
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	NA	NOT APPLICABLE
CFE	CONTRACTOR FURNISHED EQUIPMENT	NEC	NATIONAL ELECTRICAL CODE
CHW	CHILLED WATER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CHWP	CHILLED WATER PUMP	NEUT OR	NEUTRAL
CKT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CKT BRKR	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CLF	CURRENT LIMITING FUSE	NL	NIGHT LIGHT
CL	CEILING	NO	NORMALLY OPEN
CMU	CONCRETE MASONRY UNIT	NS	NO SCALE
COAX	COAX CABLE	NTS	NOT TO SCALE
COMM	COMMUNICATION	OC	ON CENTER
COMP	COMPARTMENT	OD	OUTSIDE DIAMETER
CONC	CONCRETE	OL	OVERLOAD
CONT	CONTINUE	P	POLE
CONTR	CONTRACTOR	PA	PUBLIC ADDRESS
COORD	COORDINATE	PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
CPT	CONTROL POWER TRANSFORMER	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
CRI	COLOR RENDERING INDEX	PCB	POLYCHLORINATED BIPHENYL
CT	CURRENT TRANSFORMER	PEC	PHOTOELECTRIC CELL
CTV	CABLE TELEVISION	PED	PEDESTAL
CU	COPPER	PEND	PENDANT
CU FT	CUBIC FEET	PF	POWER FACTOR
CUR	CURRENT	PH	PHASE
DB	DECIBEL OR DIRECT BURIAL	PNL	PANEL
DC	DIRECT CURRENT	POD	POWER OPERATED DAMPER
DCP	DIMMER CONTROL PANEL	POT	POTENTIAL TRANSFORMER
DEC C	DEGREES CELSIUS	PTRV	POWER TYPE ROOF VENTILATION
DEG F	DEGREES FAHRENHEIT	PVC	POLYVINYL CHLORIDE (PLASTIC)
DEMO	DEMOLITION	PWR	POWERPCP
DIAG	DIAGRAM	REF	REFLECTED CEILING PLAN
DISC	DISCONNECT	RECP	RECEPTACLE
DISTR	DISTRIBUTION	RIG	RIGID GALVANIZED STEEL
DISTR PNL	DISTRIBUTION PANEL	RM	ROOM
DMR SW	DIMMER SWITCH	RMS	ROOT MEAN SQUARE
DN	DOWN	REQD	REQUIRED
DPDT	DOUBLE POLE, DOUBLE THROW	SCC	SHORT CIRCUIT CAPACITY
DPST	DOUBLE POLE, SINGLE THROW	SES	SERVICE ENTRANCE SECTION
DRSW	DOOR SWITCH	SD	SMOKE DETECTOR
DS	DISCONNECT SWITCH	SF	SQUARE FOOT (FEET)
DWG	DRAWING	SHT	SHEET
EC	EMPTY CONDUIT	SI	INTERNATIONAL SYSTEM OF UNITS
EG	EQUIPMENT GROUND	SPEC	SPECIFICATION
EL	ELEVATION	SPST	SINGLE POLE, SINGLE THROW
ELEC	ELECTRIC OR ELECTRICAL	SURF	SURFACE
ELEV	ELEVATOR	SW	SWITCH
EMCP	EMERGENCY MONITORING CONTROL PANEL	SWBD	SWITCHBOARD
EMER	EMERGENCY	SWGR	SWITCHGEAR
EMI	ELECTROMAGNETIC INTERFERENCE	TC	TIME CLOCK
EMT	ELECTRICAL METALLIC TUBING	TEL	TELEPHONE
ENCL	ENCLOSURE	TP	TWISTED PAIR
EPO	EMERGENCY POWER OFF	TPS	TWISTED PAIR SHIELDED
EPRF	EXPLOSION PROOF	TTB	TELEPHONE TERMINAL BOARD
ESMT	EASEMENT	TV	TELEVISION
EW	ELECTRIC WATER COOLER	TYP	TYPICAL
EWL	ELECTRIC WATER HEATER	UFJ	UNDERFLOOR DUCT
EXIST	EXISTING	UGND	UNDERGROUND
FA	FIRE ALARM	UL	UNDERWRITERS LABORATORY
FAAP	FIRE ALARM ANNUNCIATOR PANEL	UN	UNLESS OTHERWISE NOTED
FABL	FIRE ALARM BELL	UNINT	UNINTERRUPTIBLE POWER SUPPLY
FABX	FIRE ALARM BOX	UTIL	UTILITY
FACP	FIRE ALARM CONTROL PANEL	V	VOLT
FC	FOOTCANDLE	VA	VOLT AMPERE
FI	FILM ILLUMINATOR	VAR	VOLT AMPERE REACTIVE
FIXT	FIXTURE	VFD	VARIABLE FREQUENCY DRIVE
FLA	FULL LOAD AMPS	VLT	VOLT
FLEX	FLEXIBLE METALLIC CONDUIT	W	WATT
FLT	FLOODLIGHT	WH	WATER HEATER
FLUOR	FLUORESCENT	WP	WEATHERPROOF
FLUOR FIX	FLUORESCENT FIXTURE	XFER	TRANSFER
FOUTT	TELEPHONE FLOOR OUTLET	XFMR	TRANSFORMER
FP	FIRE PROTECTION		
FT	FEET OR FOOT		
FU SW	FUSED SWITCH		
FVNR	FULL VOLTAGE NON-REVERSING		
FVR	FULL VOLTAGE REVERSING		
G OR GND	GROUND OR GENERATOR		
GEN	GENERATOR		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		

ELECTRICAL SYMBOLS - DIAGRAM

	EARTH GROUND
	PULL BOX
	FUSE WITH RATING
	MOLDED CASE CIRCUIT BREAKER
	DISCONNECT SWITCH, FUSED
	DISCONNECT SWITCH, UNFUSED
	STARTER, COMBINATION WITH DISCONNECT SWITCH
	STARTER OR MOTOR CONTROLLER
	VARIABLE FREQUENCY DRIVE
	TIME CLOCK
	LIGHTING CONTACTOR
	GENERATOR, POWER
	METER
	WYE CONNECTION
	MOTOR, SINGLE-PHASE
	MOTOR, THREE-PHASE
	WATT-HOUR DIGITAL METER WITH KYZ HARDWARE AND INTERFACED WITH DDC PANEL VIA CAT-5e CABLING.

ELECTRICAL SYMBOLS - LIGHTING PLAN

	SWITCH BLANK = SINGLE POLE S = THREE-WAY D = DIMMER LV= LOW VOLTAGE LVM= LOW VOLTAGE MASTER PB= PUSH BUTTON STATION T = TIMER OPERATED X = EXPLOSION PROOF
	2 = DOUBLE POLE 4 = FOUR-WAY K = KEY OPERATED L = LOCK P = WITH PILOT LIGHT RC= REMOTE CONTROL WP= WEATHER PROOF Wp= OCCUPANCY SENSOR
	WALL MOUNTED, OCCUPANCY SENSOR
	PHOTOELECTRIC CELL, LIGHTING CONTROLS
	FIXTURE, DOWNLIGHT, RECESSED
	FIXTURE, DOWNLIGHT, RECESSED, EMERGENCY BATTERY BACKUP
	FIXTURE, WALL MOUNTED
	FIXTURE, 2'x4' LAY-IN, RECESSED
	FIXTURE, 2'x4' LAY-IN, RECESSED, EMERGENCY BATTERY BACKUP
	FIXTURE, 4' STRIP, PENDANT; /E INCLUDE WITH EMERGENCY BATTERY BACKUP
	FIXTURE, 4' LINEAR, PENDANT; /E INCLUDE WITH EMERGENCY BATTERY BACKUP
	FIXTURE, 4' LINEAR, WALL MOUNTED
	FIXTURE, 2'x4'
	FIXTURE
	FIXTURE, 1'x2' SURFACE MOUNTED
	EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
	EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

- GENERAL NOTES**
- ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.
 - LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.
 - EACH HOMERUN CONDUIT SHALL CONTAIN NO MORE THAN THREE CIRCUITS, PROVIDE A NEUTRAL AND GROUND FOR EACH HOMERUN CIRCUIT, IF THE HOMERUN EXCEEDS 100 FEET, USE #10 THHN CU WIRE.
 - MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

ELECTRICAL SYMBOLS - POWER PLAN

	RECEPTACLE, DUPLEX, 120VAC, 20A, 18" A.F.F.
	RECEPTACLE, DUPLEX, 120VAC, 20A, COORD. WITH COUNTER
	RECEPTACLE, DUPLEX, 120VAC, 20A, GFCI COORD. WITH COUNTER
	RECEPTACLE, DUPLEX, 120VAC, 20A, GFCI, WP COVER
	RECEPTACLE, DUPLEX, 120VAC, 20A, EMERGENCY POWER
	RECEPTACLE, DUPLEX, 120VAC, 20A, TAMPER RESISTANT
	RECEPTACLE, DUPLEX, 120VAC, 20A, ISOLATED GROUND
	RECEPTACLE, SIMPLEX, 120VAC, 20A, COORD. WITH EQUIPMENT
	RECEPTACLE, QUADPLEX, 120VAC, 20A, 18" A.F.F. U.N.O.
	RECEPTACLE, SPECIAL PURPOSE
	A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
	B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
	C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
	D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
	E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
	F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R.
	G = 208V, 50A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R.
	H = 208V, 60A, 3 PHASE, 3-POLE, 4W, NEMA 15-60R.
	JUNCTION BOX
	PANELBOARD, SURFACE MOUNTED
	PANELBOARD, RECESSED MOUNTED
	TRANSFORMER - "TA"
	DISCONNECT SWITCH
	MAIN GROUNDING BUSBAR
	CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.
	CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.
	BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN
	LIGHT POLE, ONE LUMINAIRE
	LIGHTING, EXTERIOR BUILDING

ELECTRICAL GENERAL NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF PENETRATIONS AND DETAILS.
- THIS SCHEDULE IS A STANDARD SCHEDULE. CERTAIN SYMBOLS & ABBREVIATIONS INDICATED ON THIS SCHEDULE MAY NOT APPEAR ON THE DRAWINGS.
- EQUIPMENT SYMBOLS SHOWN DASHED ON THE DRAWINGS INDICATE EXISTING EQUIPMENT.
- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT.
- FURNISH ALL LABOR AND TOOLS NECESSARY, AND FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, UFC'S AND AUTHORITY HAVING JURISDICTION REQUIREMENTS, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE.
- BEFORE SUBMITTING THE BID PROPOSAL, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE JOB CONDITIONS, VERIFY SERVICE REQUIREMENTS, INCLUDING ALL NECESSARY PULLBOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS, PANELS, SWITCHBOARDS, DISCONNECT SWITCHES, CABLES, ETC., WHETHER SHOWN ON DRAWINGS OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND OPERABLE ELECTRICAL SYSTEM WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL EXTERIOR ENCLOSED DISCONNECT SWITCHES AND CIRCUIT BREAKERS SHALL BE NEMA 4X, UNLESS OTHERWISE NOTED.
- ALL INTERIOR ENCLOSED DISCONNECT SWITCHES AND CIRCUIT BREAKERS SHALL BE NEMA 1, UNLESS OTHERWISE NOTED.

three inches = one foot
one and one half inches = one foot
one inch = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

A
B
C
D
E
F

FINAL SUBMISSION

<p>CONSULTANTS:</p> <p>CIVIL: KENNETH HORNE & ASSOCIATES 7201 NORTH 9TH AVENUE, STE 8 PENSACOLA, FLORIDA 32504 PH: (850) 471-9200 FX: (850) 471-0063</p> <p>LANDSCAPE ARCHITECT: CSA GROUP, INC. 8000 PROCLAIM SQUARE DRIVE MOBILE, ALABAMA 36689 PH: (251) 344-4023 FX: (251) 344-4052</p> <p>COMM/DS- SCHMIDT CONSULTING GROUP, INC. 40 S. PALMWAY BLVD, STE. 200 PENSACOLA, FLORIDA 32502 PH: (850) 438-0000 FX: (850) 432-8831</p> <p>SURVEYORS: KGI TECHNOLOGIES, INC. 10401 HIGHLAND MANOR DRIVE, SUITE 100 TAMPA, FLORIDA 33600 PH: (813) 740-2500</p> <p>ARCHITECTURE: BULLOCK TICE ASSOCIATES, INC. 609 EAST CERVANTES STREET PENSACOLA, FL 32501 PH: (850) 454-0444 FX: (850) 432-9508</p>		<p>ARCHITECT/ENGINEERS:</p> <p>BES DESIGN/BUILD, LLC 766 Middle St, Fairhope, AL 36532 Phone: 251.990.5778 Fax: 251.990.3716</p>	<p>Drawing Title GENERAL NOTES, SYMBOLS AND LEGENDS</p> <p>Approved: Project Director</p>	<p>Project Title PANAMA CITY JOINT OUTPATIENT CLINIC VA GULF COAST HEALTH CARE</p> <p>Project Number 520-326</p> <p>Building Number -</p> <p>Drawing Number E101 Dwg. 1 of 17</p>	<p>Office of Construction and Facilities Management</p> <p>Department of Veterans Affairs</p>
			<p>Location PANAMA CITY, FLORIDA</p> <p>Date MARCH 2012</p> <p>Checked -</p> <p>Drawn GWS</p>		