

ELECTRICAL ABBREVIATIONS

1PH	SINGLE-PHASE	GTB	GROUND TERMINAL BOX
1P	SINGLE POLE		
2/C	TWO-CONDUCTOR	HID	HIGH INTENSITY DISCHARGE
3/C	THREE-CONDUCTOR	HOA	HAND-OFF-AUTOMATIC
3PH	THREE-PHASE	HP	HORSEPOWER
4/C	FOUR-CONDUCTOR	HT	HEIGHT
4W	FOUR-WIRE	HZ	HERTZ
A/C UNIT	AIR CONDITIONING UNIT	IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
A/E	ARCHITECT/ENGINEER	IMC	INTERMEDIATE METAL CONDUIT
AAP	ALARM ANNUNCIATOR PANEL	INCAND	INCANDESCENT
AC	ALTERNATING CURRENT OR ARMORED CABLE	IR	INFRARED
ACC	ACCESSIBLE	IWH	INSTANTANEOUS WATER HEATER
ADDL	ADDITIONAL	J-BOX	JUNCTION BOX
ADJ	ADJACENT, ADJOINING		
ADO	AUTOMATIC DOOR OPENER	KV	KILOVOLT
AF	AMPERE FRAME OR AMP FUSE	kVA	KILOVOLT AMPERE
AF	ABOVE FINISHED FLOOR	kVAH	KILOVOLT AMPERE PER HOUR
AF	FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	kVAR	KILOVOLT AMPERE REACTIVE
AF	ABOVE FINISHED GRADE	KW	KILOWATT
AFG	AMPERE HOUR	KWH	KILOWATT HOUR
AH	AUTHORITY HAVING JURISDICTION	KWHM	KILOWATT HOUR METER
AIC	AMPERE INTERRUPTING CAPACITY	LED	LIGHT EMITTING DIODE
ALT	ALTERNATE	LF	LINEAR FEET (FOOT)
AMB OR A	AMBIENT	LM	LUMEN
AMP	AMPERE	LP	LIGHT POLE
ARCH	ARCHITECT	LPS	LOW PRESSURE SODIUM
ASC	AMPS SHORT CIRCUIT	LRA	LOCKED ROTOR AMPS
AT	AMPERE TRIP	LTC	LOCAL TEMPERATURE CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	LT	LIGHT
AUTO	AUTOMATIC	LTG	LIGHTING
AV	AUDIO VISUAL	LTG PNL	LIGHTING PANEL
		LTNG	LIGHTNING
		LV	LOW VOLTAGE
BAT	BATTERY		
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 P	BY PASS	MECH	MECHANICAL
		MG	MOTOR GENERATOR
C	CONDUIT	MH	MANHOLE
CAB	CABINET	MIN	MINIMUM
CALC	CALCULATE	MOCP	MAXIMUM OVERCURRENT PROTECTION
CAP	CAPACITY	MLO	MAIN LUGS ONLY
CAT	CATALOG	MT	MOUNT
CATV	COMMUNITY ANTENNA TELEVISION	MTD	MOUNTED
CCR	CONTROL CONTACTOR	MTG	MOUNTING
CCTV	CLOSED CIRCUIT TELEVISION	MTS	MANUAL TRANSFER SWITCH
cd	CANDELA	MV	MEDIUM VOLTAGE
CD	CONSTRUCTION DOCUMENTS	MVA	MEGAVOLT-AMPERE
CF	CONTRACTOR FURNISHED	MW	MEGAWATT MICROWAVE
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED		
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	NA	NOT APPLICABLE
CFC	CONTRACTOR FURNISHED EQUIPMENT	NEC	NATIONAL ELECTRICAL CODE
CHW	CHILLED WATER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CHWP	CHILLED WATER PUMP	NEUT OR NNEUTRAL	NATIONAL FIRE PROTECTION ASSOCIATION
CIR	CIRCUIT	NFPA	NOT IN CONTRACT
CKT BRKR	CIRCUIT BREAKER	NIC	NIGHT LIGHT
CLF	CURRENT LIMITING FUSE	NL	NORMALLY OPEN
CLG	CEILING	NO	NO SCALE
CMU	CONCRETE MASONRY UNIT	NS	NOT TO SCALE
COAX	COAX CABLE	NTS	
COMM	COMMUNICATION		
COMP	COMPARTMENT	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	OL	OVERLOAD
CONTR	CONTRACTOR		
COORD	COORDINATE	P	POLE
CPT	CONTROL POWER TRANSFORMER	PA	PUBLIC ADDRESS
CRI	COLOR RENDERING INDEX	PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
CT	CURRENT TRANSFORMER	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
CTV	CABLE TELEVISION	PCB	POLYCHLORINATED BIPHENYL
CU	COPPER	PEC	PHOTOELECTRIC CELL
CU FT	CUBIC FEET	PED	PEDESTAL
CUR	CURRENT	PEND	PENDANT
		PF	POWER FACTOR
DB	DECIBEL OR DIRECT BURIAL	PH	PHASE
DC	DIRECT CURRENT	PNL	PANEL
DCP	DIMMER CONTROL PANEL	POD	POWER OPERATED DAMPER
DEG C	DEGREES CELSIUS	PT	POTENTIAL TRANSFORMER
DEG F	DEGREES FAHRENHEIT	PTRV	POWER TYPE ROOF VENTILATION
DEMO	DEMOLITION	PVC	POLYVINYL CHLORIDE (PLASTIC)
DIAG	DIAGRAM	PWR	POWER/REFLECTED CEILING PLAN
DISC	DISCONNECT	REC	RECESSED
DISTR	DISTRIBUTION	RECP	RECEPTACLE
DISTR PNL	DISTRIBUTION PANEL	RGS	RIGID GALVANIZED STEEL
DMR SW	DIMMER SWITCH	RM	ROOM
DN	DOWN	RMS	ROOT MEAN SQUARE
DPDT	DOUBLE POLE, DOUBLE THROW	REQD	REQUIRED
DPST	DOUBLE POLE, SINGLE THROW		
DRSW	DOOR SWITCH	SCC	SHORT CIRCUIT CAPACITY
DS	DISCONNECT SWITCH	SEC	SERVICE ENTRANCE SECTION
DWG	DRAWING	SD	SMOKE DETECTOR
		SF	SQUARE FOOT (FEET)
EC	EMPTY CONDUIT	SHT	SHEET
EG	EQUIPMENT GROUND	SI	INTERNATIONAL SYSTEM OF UNITS
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRIC OR ELECTRICAL	SPST	SINGLE POLE, SINGLE THROW
ELEV	ELEVATOR	SURF	SURFACE
EMCP	EMERGENCY MONITORING CONTROL PANEL	SW	SWITCH
EMER	EMERGENCY	SWBD	SWITCHBOARD
EMI	ELECTROMAGNETIC INTERFERENCE	SWGR	SWITCHGEAR
EMT	ELECTRICAL METALLIC TUBING		
ENCL	ENCLOSURE	TC	TIME CLOCK
EPO	EMERGENCY POWER OFF	TEL	TELEPHONE
EPRF	EXPLOSION PROOF	TP	TWISTED PAIR
ESMT	EASEMENT	TPS	TWISTED PAIR SHIELDED
EW	ELECTRIC WATER COOLER	TTB	TELEPHONE TERMINAL BOARD
EW	ELECTRIC WATER HEATER	TV	TELEVISION
EXIST	EXISTING	TYP	TYPICAL
FA	FIRE ALARM		
FAAP	FIRE ALARM ANNUNCIATOR PANEL	UFD	UNDERFLOOR DUCT
FABL	FIRE ALARM BELL	UGND	UNDERGROUND
FABX	FIRE ALARM BOX	UL	UNDERWRITERS LABORATORY
FACP	FIRE ALARM CONTROL PANEL	UON	UNLESS OTHERWISE NOTED
FC	FOOTCANDLE	UPS	UNINTERRUPTIBLE POWER SUPPLY
FI	FILM ILLUMINATOR	UTIL	UTILITY
FI	FIXTURE		
FLA	FULL LOAD AMPS	V	VOLT
FLEX	FLEXIBLE METALLIC CONDUIT	VA	VOLT AMPERE
FLT	FLOODLIGHT	VAR	VOLT AMPERE REACTIVE
FLUOR	FLUORESCENT	VFD	VARIABLE FREQUENCY DRIVE
FLUOR FIX	FLUORESCENT FIXTURE	VOLT	VOLTAGE
FOUTT	TELEPHONE FLOOR OUTLET		
FP	FIRE PROTECTION	W	WATT
FT	FEET OR FOOT	WH	WATER HEATER
FU SW	FUSED SWITCH	WP	WEATHERPROOF
FVNR	FULL VOLTAGE NON-REVERSING		
FVR	FULL VOLTAGE REVERSING	XFER	TRANSFER
		XFMR	TRANSFORMER
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 3 = THREE-WAY D = DIMMER LV= LOW VOLTAGE LM= 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 Mo= 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, WEATHERPROOF WHILE IN USE.
	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, DUPLEX, 120VAC, 20A, SPLIT WIRED
	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.
- ALL RECEPTACLES DENOTED WITH "GF" GROUND FAULT CIRCUIT INTERRUPTION SHALL BE WIRED TO THE LINE TERMINALS ONLY. DOWNSTREAM "GF" RECEPTACLES SHALL NOT BE FED BY THE LOAD TERMINALS OF UPSTREAM "GF" DEVICES. (TYPICAL.)

FINAL SUBMISSION
APRIL 6, 2012

IF SHEET IS LESS THAN (30"x42") IT IS
A REDUCED PRINT; SCALE ACCORDINGLY

E001

 766 MIDDLE ST., FANNING, AL 36532 251-990-5778 ARCH. & ENGR. SEAL No. 65932 FLORIDA 4/6/12 STATE OF FLORIDA REGISTERED PROFESSIONAL ARCHITECT/ENGINEER	NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE	P.W. DWG. NO.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND PANAMA CITY, FLORIDA
	SAFETY DEPARTMENT	DRAWN BY CWS	PANAMA CITY JOINT OUTPATIENT CLINIC NAVAL GULF COAST HEALTH CARE GENERAL NOTES, SYMBOLS AND LEGENDS
	FIRE DEPARTMENT	CHECKED BY R. DeLoach	
	PUBLIC WORKS SUPERVISOR	SUPERVISOR WWB	
		SATISFACTORY TO DATE	APPROVED DATE
	SATISFACTORY TO DATE	PUBLIC WORKS OFFICER	CONSTR. CONTR. NO. T.O.# SHEET 1 OF 13