






















SCALE: 1/4" = 1'-0"

ELECTRICAL	COUNT	SYMBOL
ceiling fan- 4 bladed 01	5	
48in LED LINEAR LIGHT	3	
can light 6inch	7	
ceiling dish round	5	
exterior craftsman light fixture	3	
spotlight double with motion detector	4	
MOTOR	1	
NON-FUSED DISCONNECT	1	
electrical meter	1	
electrical panel	1	
co detector	1	
fan 50 CFM	2	
light	3	
outlet	28	
outlet 220v	4	
outlet gfi	7	
outlet wp	5	
smoke detector	4	
switch	20	
switch 3 way	6	
vanity wall mount	2	

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: COPPER, IN ACCORDANCE WITH ASTM STANDARDS. SIZE REFERENCE ANY CONDUCTORS NO. 10 AND SMALLER SIZE SOLID, NO. 8 AND LARGER SIZE INSULATION OF COPPER OR ALUMINUM THERMOPLASTIC TYPE THHN (MIN. SIZE NO. 12) ANY WIRE INSTALLED OUTSIDE, UNDERGROUND, IN SLABS OR EXPOSED TO MOISTURE SHALL HAVE THIN INSULATION.

B. RACEWAYS: RIGID STEEL CONDUIT, FULL WEIGHT TYPE GALVANIZED, THREADED, AND FLANGE END, OR RIGID POLYESTER NOTED OR REQUIRED FOR WIRING, ELECTRICAL METAL TUBING (EMT), THIN WALL PIPE, GALVANIZED, THREADED, COMPRESSION FITTINGS, AND MINIM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED, AND MINIMUM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. PVC CONDUIT, HEAVY DUTY TYPE, SIZE AS INDICATED. SEPARATE RACEWAYS SHALL BE USED FOR EACH VOLTAGE SYSTEM.

C. DISCONNECT SWITCHES: GENERAL DUTY, HORSEPOWER RATED FOR MOTOR LOADS 250 VOLT RATING, FUSED OR NON-FUSED AS NOTED; NUMBER OF POLES AS INDICATED. ENCLOSURE NEMA 1 FOR INDOOR USE AND NEMA 3R FOR WEATHERPROOF APPLICATIONS. SWITCH TO BE SQUARE "D" OR EQUAL.

D. ELECTRICAL PANELS: 120/240V, 3-POLE, 3-TERMINAL, MAGNETICALLY TRIP MAKE, QUICK BREAK, BOLT-ON TYPE WITH MANUALLY OPERATED INSTALLED TRIP, FREE HANDLE, MULTI-POLE TYPES WITH INTERNAL COMMON TRIP BAR. TERMINALS SUITABLE FOR COPPER OR ALUMINUM CONDUCTORS. INTERRUPTING CAPACITY MINIMUM 10,000 RMS SYMMETRICAL AMPERES CIRCUIT CIRCUIT BREAKERS TO BE SQUARE "D", SIEMENS OR EQUAL. TYPE NOT REQUIRED.

E. CIRCUIT BREAKERS: 120/240V, PHASING, AND AMPERE RATINGS AS INDICATED, CIRCUIT BREAKER TYPE AS INDICATED, BUSS BARS OF HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY, GALVANIZED STEEL BACK BOX, DOOR AND TRIM. ALL CORNERS LAPPED AND WELDED, HARDWARE CHROME PLATED WITH FLUSH LOCK AND CATCH HINGES SEMI-CONCEALED, 5 KNUCKLES STEEL WITH NONFERROUS PINS, 180 DEGREE OPENING, MINIMUM 1/2" INTER SPACE 3/4" TOP AND BOTTOM. ALL TYPES TO HAVE WHERE REQUIRED BY CODE, DIRECT ORY HOLDER COMPLETE WITH CLEAR PLASTIC TRANSPARENT COVER INDICATING TYPED/WRITTEN LIST OF FEEDER CABLES, CONDUIT SIZES, CIRCUIT NUMBER, OUTLETS OF EQUIPMENT SUPPLIED, AND THEIR LOCATION, CIRCUIT BREAKER TYPE PANELBOARDS TO BE SQUARE "D" TYPE NOBORD OR LINE, OR EQUAL. A PLASTIC LABEL SHALL BE LOCATED ON EXTERIOR OF PANELBOARD IDENTIFYING THE CIRCUIT.

F. WIRING DEVICES: ALL DEVICES THEIR PRODUCT OF THE SAME MANUFACTURER, WALL SWITCHES AND RECEPTABLES TO BE 20 AMP, 125 VOLT, UNLESS NOTED OTHERWISE. COLOR TO BE SELECTED BY ARCHITECT.

G. DEVICE PLATES: PROVIDE FOR ALL OUTLETS WHERE DEVICES ARE INSTALLED. PROVIDE A MINOR MARKING FOR ALL DEVICES. WHERE NOTED, PROVIDE BLANK PLATE FOR EMPTY OR FUTURE OUTLET BOX. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

A. EQUIPMENT: GROUND NON-CURRENT CARRYING METAL PARTS OF PANEL BOARD, RECEWAYS AND ALL LIGHTING FIXTURES. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTORS.

INSTALLATION:

- A. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS SPECIFIED UNDER RACEWAYS. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUIT NOT MORE THAN 10 FEET APART RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- B. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES. EXPECT CROSSING WHERE THE RACEWAY SHALL BE AT LEAST 2 INCHES FROM PIPE COVER.
- C. CUT CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASED PIP COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.
- D. CONDUIT TO BE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 50 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH PULL WIRE.
- E. VERIFY LOCATIONS OF OUTLETS AND SWITCHES.
- F. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
- G. CONDUIT TO MOTOR CONDUIT TO MOTOR TERMINAL BASES WITH FLEXIBLE CONDUIT. MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
- H. THIS CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL DISTRIBUTION SYSTEM AS REQUIRED: 120/208 VOLT, 1 PHASE, 100 AMP. FOR NEW CONSTRUCTION, ALL TEMPORARY WORK SHALL BE INSTALLED IN A NEAT AND SAFE MANNER.
- I. CONTRACTOR TO REMOVE AND SALVAGE ALL ABANDONED ELECTRICAL EQUIPMENT.
- J. THIS CONTRACTOR SHALL WARRANT ALL LABOR AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL WRITTEN ACCEPTANCE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT
PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE
TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE
DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S
DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE
SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.

CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AGENCY.

REVISIONS			DESIGN BY:		CERTIFIED GENERAL CONTRACTOR		CERTIFICATE OF AUTHORIZATION		PROJECT NO.:	
DATE	BY	DESCRIPTION		CGC1514780		NO. 28022	349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303	Brett A. Crews, P.E. 65592	R22.004	
									ELECTRICAL FIXTURE LAYOUT	
			750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254		Crews Engineering Services, LLC				A-6	