

ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S <sub>1</sub>	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)		TELEVISION SIGNAL WALL OUTLET
S <sub>3</sub>	THREE-WAY SWITCH		CEILING FAN
S <sub>4</sub>	FOUR-WAY SWITCH		FIRE ALARM CONTROL PANEL
S <sub>WP</sub>	SINGLE POLE SWITCH WITH WEATHERPROOF COVER		FIRE ALARM ANNUNCIATOR PANEL
S <sub>M</sub>	MANUAL MOTOR STARTER WITH OVERLOAD HEATERS		OCCUPANCY SENSOR, WATTSTOPPER WT-2255 WITH BZ-150 POWER PACKS
S <sub>D</sub>	DIMMER SWITCH		ELECTROMAGNETIC HOLD OPEN
S <sub>T</sub>	TIMER SWITCH		TWO WAY COMMUNICATION SYSTEM USER INTERFACE
S <sub>OS</sub>	OCCUPANCY SENSOR SWITCH		TWO WAY COMMUNICATION SYSTEM MASTER CONTROL STATION
	DUPLEX RECEPTACLE		3/4" PLYWOOD TELEPHONE TERMINAL BOARD PAINTED WITH FIRE RETARDANT PAINT
	FLOOR OUTLET BOX AND DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE		MAIN LUGS ONLY
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER		MOTORIZED DAMPER
	DUPLEX RECEPTACLE WITH TOP HALF SWITCHED		POWER POLE
	GFI RECEPTACLE. WP DENOTES WEATHERPROOF COVER.		
	GFI RECEPTACLE MOUNTED ABOVE COUNTER		
	4 PORT USB CHARGER ONLY (NO RECEPTACLE) LEVITON USB4P		
	TWO DUPLEX RECEPTACLES WITH COMMON COVER		
	TWO DUPLEX RECEPTACLES WITH COMMON COVER MOUNTED ABOVE COUNTER		
	SPECIAL PURPOSE RECEPTACLE, RATING AS NOTED		
	PHOTOCELL, MOUNTED ON ROOF FACING NORTH		
	JUNCTION BOX WP = WEATHERPROOF PROVIDE BLOCKING FOR FUTURE FAN WHERE APPLICABLE		
	MOTOR CONNECTION, NUMBER DENOTES HORSEPOWER		
	TRANSFORMER		
	DISCONNECT SWITCH AR DENOTES AMP RATING OF SWITCH NF DENOTES NON-FUSED AF DENOTES AMP FUSE SIZE WHERE LOCATED IN A CLOSET, INSTALL DISCONNECT SUCH THAT WHEN THE DOOR IS OPEN, THERE IS AT LEAST 42" CLEAR PER NEC		
	LIGHTING/APPLIANCE PANELBOARD		
	POWER METER		
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. CONDUIT SHALL INCLUDE PHASE, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED FOR CIRCUITS		
	BRANCH CIRCUIT CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR.		
	FLUORESCENT STRIP FIXTURE		
	WALL MOUNTED FIXTURE		
	UNSWITCHED AND ALWAYS ON LIGHT FIXTURE		
	RECESSED OR SURFACE CEILING MOUNTED LIGHT FIXTURE		
	UNSWITCHED AND ALWAYS ON LIGHT FIXTURE		
	TRACK LIGHTING, NUMBER OF HEADS AS SHOWN ON DRAWING		
	SURFACE MOUNTED WRAPAROUND		
	EXIT LIGHT FIXTURE DIRECTION ARROWS AS SHOWN (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)		
	WALL MOUNTED EXIT LIGHT FIXTURE		
	EXTERIOR LIGHT FIXTURE WITH ARMS AS SHOWN ON DRAWINGS		
	BATTERY PACK WITH TWIN HEADS		
	EXTERIOR MOUNTED PHOTOCELL FACING NORTH		
	MANUAL PULL STATION		
	CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED. BOARD WIRED WITH BATTERY BACKUP		
	PHOTO EYE DETECTOR		
	COMBINATION HORN/STROBE NOTIFICATION DEVICE, WHITE COLOR		
	VISUAL ONLY SIGNALING UNIT, WALL MOUNTED, WHITE COLOR		
	PHONE OUTLET MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED		

**SPECIFICATION NOTES:**

- ALL WIRING AND CABLING SHALL BE CONCEALED.
- PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION OF ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS. COMPLY WITH ALL APPLICABLE CODES, LAWS, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION FOR THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND PERMITS REQUIRED FOR THIS PROJECT. COORDINATE ELECTRICAL UTILITY REQUIREMENTS WITH ELECTRIC UTILITY.
- BRANCH AND FEEDER CIRCUITS SHALL BE COPPER TYPE NM CABLE WITH AN EQUIPMENT GROUND CONDUCTOR. SERVICE ENTRANCE CABLE SHALL BE ALUMINUM TYPE SE.
- SCHEDULE 40 PVC CONDUIT SHALL BE USED UNDERGROUND. PROVIDE GALVANIZED INTERMEDIATE METAL CONDUIT WHERE CONDUIT IS RUN ABOVE GROUND.
- RECEPTACLES AND SWITCHES SHALL BE 20 AMP SPECIFICATION GRADE, WHITE COLOR. PROVIDE WHITE COVERPLATES.
- ALL LIGHT FIXTURES SHALL BE FURNISHED BY CONTRACTOR.
- PROVIDE CATEGORY 5E CABLES FOR TELEPHONE OUTLETS SHOWN ON DRAWINGS. JACKS SHALL BE DUAL LINE RJ-14. PROVIDE CONNECTION TO TELEPHONE DEMARCATION POINT. COORDINATE WITH TELEPHONE SERVICE PROVIDER.
- PROVIDE RGS 70 OHM CABLES FROM TELEVISION OUTLETS SHOWN ON DRAWINGS TO CATV DEMARCATION POINT.
- PROVIDE ALL FINAL ELECTRICAL AND CONTROL CONNECTIONS TO FIXED APPLIANCES.
- LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
- RECEPTACLES SHALL BE LOCATED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
- EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
- WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.
- THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 384.

WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:

- THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
- BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
- BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
- ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND.
- PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
- THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
- OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES. FOR OUTLET BOXES LESS THAN 24 INCHES APART, SEE DETAIL FOR UL SYSTEM NO. CLV.
- OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.

- ALL DEVICES SHALL BE MOUNTED VERTICAL, UNLESS OTHERWISE NOTED.
- ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
- WHERE TWO OR MORE SMOKE ALARMS ARE WITHIN A DWELLING UNIT, THEY SHALL BE ARRANGED SUCH THAT OPERATION OF ANY SMOKE ALARM SHALL CAUSE THE ALARM IN ALL SMOKE ALARMS WITHIN THE DWELLING UNIT TO SOUND.

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NO.	VOLTAGE	LAMPS	REMARKS
A	1X4 LED SURFACE MOUNT TROFFER	ORACLE LIGHTING 14-OSMT-LED-3400L-DIM10-MVOLT-35K-85-A12	120	35W LED	
B	BATHROOM SCONCE	KICHLER LIGHTING 10799NILED	120	48.7W LED	
C	LED SURFACE MOUNT DISK LIGHT	CONTECH LIGHTING CMR28-35K-C-WHT	120	15W LED	WET LOCATION
D	DINING CHANDELIER, THREE LAMPS, BRUSHED NICKEL FINISH	PROGRESS LIGHTING P4440-09EBWB	120	(3) 13W GU24	
E	LED WALL LANTERN ANTIQUE BRONZE	PROGRESS LIGHTING P5749-2030K9	120	9W LED	
F	6" FLUORESCENT OPEN DOWNLIGHT, DAMP LOCATION LABELED	SEA GULL LIGHTING 11028	120	(1) 18W GU24	
H	4' LED SURFACE WRAPAROUND	CONTECH LIGHTING SW-4-35K-MV-P	120	40W LED	
J	6" LED RECESSED DOWNLIGHT	CONTECH LIGHTING RENC-3-35K-LED	120	15W LED	DAMP LOCATION
K	LED SURFACE MOUNT DISK LIGHT	CONTECH LIGHTING CMR28-35K-C-WHT	120	12.5W LED	
L	LED CHANDELIER	ELK LIGHTING 11502/3-LED	120	(3) 13.5W LED	REFER TO ARCH. FOR MOUNTING HEIGHT
M	MINI-PENDANT 1 LIGHT FLUORESCENT	KICHLER LIGHTING 0743N	120	(1) 13W GU24	
N	2'X4' LED ARCHITECTURAL TROFFER	COLUMBIA LIGHTING LCAT-24-35-ML-SM-ED-U	120	38.8W LED	
P	WALL MOUNTED SCONCE	CONTECH LIGHTING WS08SL-35-MV02-6-AB	120	16W LED	REFER TO ARCH. FOR MOUNTING HEIGHT
PE	BILLIARDS PENDANT LED	ELK LIGHTING 6552/3-LED	120	(3) 9W LED	REFER TO ARCH. FOR MOUNTING HEIGHT
Q	LED CHANDELIER	ELK LIGHTING 11504/6+3-LED	120	(9) 13.5W LED	REFER TO ARCH. FOR MOUNTING HEIGHT
R	WALL PACK WITH PHOTOCELL	ORACLE LIGHTING OWP-FC-103-LED-2500-DIM10-MVOLT-40K-9Z-WPPHC	120	20W LED	REFER TO ARCH. FOR MOUNTING HEIGHT
S	WALL SCONCE	ELK LIGHTING 11500/1-LED	120	13.5W LED	REFER TO ARCH. FOR MOUNTING HEIGHT
T	LED WET LOCATION VAPOR TIGHT	ORACLE LIGHTING 4-OWTP-LED-4000L-DIM10-MVOLT-35K-85	120	36W LED	
W	4' LED STRIP FIXTURE	CONTECH LIGHTING SS-4-35-MV-P	120	40W LED	
Z	INTERIOR CEILING FAN	MINKA AIRE F556L-BN/DW	120	85W LED	
Zi	EXTERIOR CEILING FAN	MINKA AIRE F753L-KA	120	64W LED	
Zj	TWIN HEAD BATTERY PACK	EXITRONIX S-NC-18-2-DR-CC	120	(2) 9W LED	
Zk	UNIVERSAL MOUNT EXIT SIGN WITH BATTERY PACK, RED LETTERS	EXITRONIX 902E-U-WB-RC-WH-DR	120	LED	
EM	EMERGENCY EGRESS LIGHTING	EXITRONIX TR-WB-BR	120	12W LED	



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