

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

ELECTRICAL SYMBOL LEGEND

	SOLID LINE DENOTES CONDUIT RUN CONCEALED IN WALL, ABOVE CEILINGS, EXPOSED IN UNFINISHED AREAS. DASHED LINE DENOTES CONDUIT RUN BELOW GRADE OR BELOW FINISHED FLOOR.
	HOMERUN TO PANELBOARD. QUANTITY OF ARROWS INDICATES NUMBER OF CIRCUITS.
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
	SURFACE, RECESSED, OR WALL MOUNTED FIXTURE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT FOR PROJECTS W/ GENERATOR OR PROVIDE LOCAL BATTERY PACK W/O GEN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. LETTER INDICATES TYPE.
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
	CEILING MOUNTED EXIT SIGN. SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LGT. FIXT. SCHEDULE FOR EXACT REQUIREMENTS. CONNECT TO UNSWITCHED BRANCH CKT. INDICATED ON DWGS. SUBSCRIPT "WG" WHEN INDICATED DENOTES WIREGUARD.
S	SINGLE-POLE, 20 AMP, 120/277 VOLT, TOGGLE SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 44" A.F.F. UNLESS OTHERWISE INDICATED.
SS	TWO SINGLE-POLE TOGGLE SWITCHES WIRED FOR MULTI-LEVEL LIGHTING IN 2-GANG OUTLET BOX. ONE SWITCH SHALL CONTROL INNER LAMP(S) IN EACH FIXTURE WHILE OTHER SWITCH SHALL CONTROL OUTER LAMPS.
So	WALL BOX DIMMER CONTROL SWITCH MOUNTED IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 44" A.F.F. UNLESS OTHERWISE INDICATED. MATCH DIMMER ACCORDING TO LOAD TYPE AND WATTAGE.
OS	OCCUPANCY SENSOR. CEILING MOUNTED. REFER TO SPECIFICATIONS AND DRAWINGS FOR DETAILS.
Se	SINGLE POLE, 20 AMP, 120/277 VOLT, SWITCH CONNECTED TO EMERGENCY BRANCH CKT. PROVIDE RED SWITCH. MOUNT IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 44" A.F.F. UNLESS OTHERWISE INDICATED.
	208Y/120 OR 120/240 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. SEE PANELBOARD SCHEDULE FOR EXACT REQUIREMENTS.
	MOTOR CONNECTION. REFER TO EQUIPMENT CONNECTION SCHEDULE.
	JUNCTION BOX MOUNTED ABOVE CEILING OR FLUSH IN FINISHED CEILING UNLESS INDICATED OTHERWISE. SIZE PER NEC.
	WALL MOUNTED JUNCTION BOX, SIZE PER NEC OR AS INDICATED. MOUNTING HEIGHT AS INDICATED. MOUNT FLUSH IN FINISHED SPACES OR SURFACE IN UNFINISHED SPACES UNLESS OTHERWISE INDICATED.
	SPECIAL EQUIPMENT CONNECTION. SUBSCRIPT INDICATES DESIGNATION. SEE EQUIPMENT CONNECTION SCHEDULE FOR EXACT REQUIREMENTS.
	20 AMP, 125 VOLT, 3 WIRE DUPLEX RECEPTACLE IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 18" A.F.F. UNLESS OTHERWISE INDICATED. "TL" SUBSCRIPT DENOTES TWIST-LOCK RECEPTACLE. "C" SUBSCRIPT INDICATES FLUSH MT. IN CEILING
	20 AMP, 125 VOLT, 3 WIRE DUPLEX RECEPTACLE IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 44" ABOVE FINISHED FLOOR, 4" ABOVE DESK/COUNTERTOP, OR 2" ABOVE BACKSPASH UNLESS OTHERWISE INDICATED.
	TWO 20 AMP, 125 VOLT, 3 WIRE RECEPTACLES IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) 2-GANG OUTLET BOX. MOUNT 18" A.F.F. UNLESS OTHERWISE INDICATED.
	20 AMP, 125 VOLT, 3 WIRE DUPLEX RECEPTACLE CONNECTED TO EMERGENCY BRANCH CIRCUIT. PROVIDE RED RECEPTACLE AND ENGRAVED CIRCUIT DESIGNATION NAMEPLATE UNLESS OTHERWISE INDICATED.
	20 AMP, 125 VOLT, 3 WIRE GROUND FAULT TYPE DUPLEX RECEPTACLE(S). MOUNTING AS INDICATED.
	CABLE TRAY (EXISTING, ABOVE CEILING)
	TELECOMMUNICATIONS OUTLET MOUNTED 18" GAFF U.O.I. SUBSCRIPT "XD" AND/OR "XV" AND/OR "XF", WHEN SHOWN, DENOTES NUMBER OF DATA AND/OR VOICE CABLES AND/OR FIBERS AND JACKS RESPECTIVELY. SUBSCRIPT "WT" DENOTES WIRELESS TRANSMITTER.
	TELECOMMUNICATIONS OUTLET MOUNTED 44" A.F.F. OR 6" ABOVE DESK/COUNTERTOP UNLESS OTHERWISE INDICATED. SUBSCRIPT "XD" AND/OR "XV" DENOTES QTY. OF DATA/VOICE CABLES/JACKS RESPECTIVELY (BY OWNER). SUBSCRIPT "P" DENOTES PAY PHONE.
IC	INTERCOM SYSTEM REMOTE CALL IN STATION MOUNTED 44-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
IM	INTERCOM SYSTEM MASTER STATION MOUNTED 44" A.F.F. UNLESS OTHERWISE INDICATED. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
CR	SECURITY SYSTEM CARD READER FLUSH MOUNTED 44" A.F.F. UNLESS OTHERWISE INDICATED.
DC	SECURITY SYSTEM DOOR CONTACTS. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
S	INTERCOM/SOUND SYSTEM FLUSH MOUNTED CEILING SPEAKER. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
NM	NURSE CALL SYSTEM MASTER CONTROL STATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
NP	NURSE CALL SYSTEM SINGLE PATIENT STATION MOUNTED 45" A.F.F. UNLESS OTHERWISE INDICATED. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE. SUBSCRIPT "DP" WHEN SHOWN, DENOTES DUAL PATIENT STATION.
CB	NURSE CALL CODE BLUE STATION MOUNTED 45" A.F.F. UNLESS OTHERWISE INDICATED. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.

ELECTRICAL SYMBOL LEGEND CONTINUED

ND	NURSE CALL DUTY STATION MOUNTED 44" A.F.F. UNLESS OTHERWISE INDICATED. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
EM	NURSE CALL MEDICAL EQUIPMENT MONITORING JACK MOUNTED 45" A.F.F. UNLESS OTHERWISE INDICATED.
E	NURSE CALL SYSTEM TOILET/SHOWER STATION WITH PULL CORD MOUNTED 44" A.F.F. (SHOWER) 24" A.F.F. (TOILET) UNLESS OTHERWISE INDICATED. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
EL	ELECTRICAL EQUIPMENT DESIGNATION.
D	NURSE CALL SYSTEM CEILING MOUNTED NURSE LIGHT, SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
Z	NURSE CALL SYSTEM CEILING MOUNTED ZONE LIGHT. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.

ABBREVIATIONS & ACRONYMS

THIS SCHEDULE IS REPRESENTATIVE OF THOSE TYPICALLY FOUND ON THE PLANS BUT NOT ALL MAY BE UTILIZED

A	AMPERE, AMMETER	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	PROVIDE	FURNISH, INSTALL & CONNECT
AIC	AMPERES INTERRUPTING CAPACITY	RECPT	RECEPTACLE
C	CONDUIT	SN	SOLID NEUTRAL
CL	CENTER LINE	SW	SWITCH
CR	CARD READER ACCESS	TV	COMBINATION TV & RECEPT OUTLET
CU	COPPER	TYP	TYPICAL
EC	EMPTY CONDUIT	UG	UNDER GROUND
EMER	EMERGENCY	UNO	UNLESS NOTED OTHERWISE
ETR	EXISTING TO REMAIN	V	VOLT
EWC	ELECTRIC WATER HEATER	WP	WEATHERTIGHT GFI
G, GND	GROUND	XFMR	TRANSFORMER
GF	GROUND FAULT INTERRUPTER		
HP	HORSEPOWER		
HZ	HERTZ		
IG	ISOLATED GROUND		
JB	JUNCTION BOX		
KVA	KILOVOLT-AMPERES		
KW	KILOWATTS		

GENERAL NOTES

A. THE CONTRACTOR BEARS A PRIME RESPONSIBILITY TO COMPLY WITH THE NATIONAL ELECTRICAL CODE EVEN WHEN THE PLANS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE OBSERVED CAREFULLY AND CONTINUOUSLY, PARTICULARLY DURING ESTIMATING FOR PROPOSAL, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

B. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN, ON THE SITE, AN ADEQUATE ADMINISTRATIVE SPACE WHERE ONE COMPLETE SET OF PLANS AND SPECIFICATIONS SHALL BE KEPT FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE PLANS AND SPECIFICATIONS SHALL BE IN ADDITION TO THE SETS USED BY THE INSTALLING ELECTRICIAN IN CARRYING OUT THEIR DAY-TO-DAY WORK ON THE PROJECT. THE PROJECTED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE PLANS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAILY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE EXTENT THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK. PARTICULAR CARE SHALL BE TAKEN TO LOCATE BOXES SO THEY ARE NOT BACK-TO-BACK IN WALLS AND TO LOCATE OUTLETS OFF COLUMNS (UNLESS VITAL THEY BE THERE) OR OTHER PLACES WHERE THEY CONFLICT WITH STRUCTURAL STEEL OR REINFORCING BARS.

C. CONTRACTOR SHALL ALSO MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, EQUIPMENT CUTS, MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. INSTALLING PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING INSTALLATION AND ROUGH-IN SO AS TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION.

D. ATTENTION IS DIRECTED SPECIFICALLY TO SPECIFICATION SECTIONS REQUIRING CONTINUOUS QUALITY CONTROL TESTING.

E. IN GENERAL, MOUNTING HEIGHTS OF DEVICES ARE NOT NOTED ON THE CONSTRUCTION DOCUMENTS. SCHEDULES AND NOTES SPECIFY "STANDARD" MOUNTING HEIGHTS FOR THESE ITEMS (SEE SPECS). STUDY CAREFULLY ELEVATIONS OF ALL WALLS AND CABINET WORK AS SHOWN ON ARCHITECTURAL DRAWINGS AND FIT OUTLETS TO SPACE AND TO AVOID CONFLICTS. OUTLETS SHALL ALWAYS BE LOCATED ABOVE, AND NOT IN, BACKSPASHES. COORDINATE OUTLET LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS. ANY CONFLICT THAT CANNOT BE RESOLVED ON THE JOB SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO ROUGH-IN.

F. ALL RACEWAYS SHALL BE METAL UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. REFER TO SPECIFICATIONS FOR ALL OTHERS.

G. NO MORE THAN ONE EXTENSION RING WILL BE ALLOWED PER JUNCTION BOX.

H. CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD, STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETE. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN NFPA 101.

G. ALL 20 AMP BRANCH CIRCUIT WIRE SIZING SHALL BE IN ACCORD WITH THE FOLLOWING TABLE:

VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT
120/208	0' - 50'	#12	#12
	50' - 100'	#10	#12
	00' - 150'	#8	#10

H. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75 DEGREE CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 310-15.

I. PENETRATIONS OF REQUIRED SMOKE TIGHT PARTITIONS SHALL BE SEALED USING U.L. LISTED METHODS. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO INSURE THAT THIS SMOKE STOPPING IS ACCOMPLISHED.

J. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE-RESISTIVE WALL, FLOOR, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER NFPA. COORDINATION WITH THE OWNER AND ENGINEER SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE ONLY APPROVED ASSEMBLIES SUCH AS THE FOLLOWING:
 CONDUIT PENETRATIONS OF 1 & 2 HOUR GYPBOARD WALLS - U.L.#WL1001
 CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE OR BLOCK WALLS - U.L.#CAJ1001
 CONDUIT PENETRATIONS OF 1 & 2 HOUR CONCRETE FLOORS - U.L.#CAJ1001

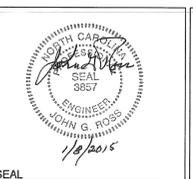
K. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE OWNER AND ENGINEER TO INSURE THE INTEGRITY OF THE U.L. RATING IS MAINTAINED. BOXES OF 16 SQUARE INCHES OR LESS SHALL BE INSTALLED IN ACCORDANCE WITH U.L. "FIRE RESISTANCE RATINGS - ANSI/UL263 (BXUV) FOR WALL AND PARTITION ASSEMBLIES.

L. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED.

M. CONTRACTOR SHALL PROVIDE COMPOSITE COORDINATION PLANS, TO ENGINEERING, INDICATING ALL TRADES WORK AND AREAS OF CONFLICT WITH RESOLUTIONS.

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APPROVALS:	
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