ELECTRICAL SYMBOLS

EQUIPMENT IDENTIFICATION

EQUIPMENT DESIGNATION
- S SWITCHBOARD
- P DISTRIBUTION PANEL
- L BRANCH CIRCUIT LIGHTING PANEL
- R BRANCH CIRCUIT RECEPTACLE PANEL
- T TRANSFORMER
- M MOTOR CONTROL CENTER
- A AUTOMATIC TRANSFER SWITCH
- LP RELAY/LIGHTING CONTROL PANEL
- LR BRANCH CIRCUIT LIGHTING/RECEPT PANEL

VOLTAGE
- 1 120/208
- 2 208
- 3 277/480
- 4 480

ELECTRICAL SYSTEM
- N NORMAL
- G GENERATOR DISTRIBUTION
- C CRITICAL
- S LIFE SAFETY
- P LIFE SUPPORT
- E EQUIPMENT–AUTOMATIC
- M EQUIPMENT–MANUAL
- U UPS

EXAMPLE

VOLTAGE — ELECTRICAL SYSTEM — PANEL SEQUENCE NUMBER — L3N–L01 — FLOOR LEVEL — EQUIPMENT DESIGNATION

MOTOR STARTER AND CONTROL

STARTER TYPE ABBREVIATIONS	DESCRIPTIONS
FVNR FD	FULL VOLTAGE NON–REVERSING WITH FUSED DISCONNECT
FVNR CB	FULL VOLTAGE NON–REVERSING WITH CIRCUIT BREAKER
FVR FD	FULL VOLTAGE REVERSING WITH FUSED DISCONNECT
FVR CB	FULL VOLTAGE REVERSING WITH CIRCUIT BREAKER
RVAT FD	REDUCED VOLTAGE AUTOTRANSFORMER WITH FUSED DISCONNECT
RVAT CB	REDUCED VOLTAGE AUTOTRANSFORMER WITH CIRCUIT BREAKER
RVPW FD	REDUCED VOLTAGE PART WINDING WITH FUSED DISCONNECT
RVPW CB	REDUCED VOLTAGE PART WINDING WITH CIRCUIT BREAKER
2S1 FD	2 SPEED 1 WINDING WITH FUSED DISCONNECT
2S1 CB	2 SPEED 1 WINDING WITH CIRCUIT BREAKER
2S2 FD	2 SPEED 2 WINDING WITH FUSIBLE DISCONNECT
2S2 CB	2 SPEED 2 WINDING WITH CIRCUIT BREAKER
	MANUAL MOTOR STARTER
MSS	MOTOR STARTER SWITCH
SPL	SPECIAL
VF	VARIABLE FREQUENCY
YDS FD	WYE – DELTA START WITH FUSIBLE DISCONNECT
YDS CB	WYE – DELTA START WITH CIRCUIT BREAKER
CB	CIRCUIT BREAKER
FD	FUSIBLE DISCONNECT

CONTROLS STARTING CODE ABBREVIATIONS	DESCRIPTIONS
OTHERS	PROVIDED UNDER ANOTHER DIVISION
MAN.	MANUAL
THERMO.	THERMOSTAT
PE SW	PNEUMATIC – ELECTRIC SWITCH
MTR.	INTERLOCKED THRU N.O. CONTACTS LOCATED ON MOTOR STARTER INDICATED
TIME CLK	TIME CLOCK
FLT SW	FLOAT SWITCH
PRS SW	PRESSURE SWITCH
FLOW SW	FLOW SWITCH
T.D. REL.	TIME DELAY RELAY
SPECIAL	SEE MOTOR STARTER SCHEDULE NOTES
CBAS	COMPUTERIZED BUILDING AUTOMATION SYSTEM

CONTROLS DEVICE CODE ABBREVIATIONS	DESCRIPTIONS
NONE	NO CONTROL DEVICE REQUIRED ON STARTER
S.S. PB	START STOP PUSH BUTTON
D.D. SEL	OFF/AUTO SELECTOR SWITCH
HOA	HAND, OFF, AUTOMATIC SELECTOR SWITCH
SPECIAL	SEE MOTOR STARTER SCHEDULE NOTES

CONTROLS PILOT DEVICE ABBREVIATIONS	DESCRIPTIONS
A	PROVIDE RED, GREEN PILOT LIGHTS & 120V CONTROL TRANSFORMER
B	RED PILOT LIGHT
C	GREEN PILOT LIGHT
D	AMBER PILOT LIGHT
E	120 VOLT CONTROL TRANSFORMER

ANSI/IEEE DEVICE NUMBERS

- 24 – OVEREXCITATION RELAY
- 25 – SYNCH–CHECK RELAY
- 27 – UNDERVOLTAGE RELAY
- 32 – DIRECTIONAL POWER RELAY
- 40 – LOSS OF DC FIELD RELAY
- 46 – PHASE BALANCE CURRENT RELAY
- 46N – NEGATIVE SEQUENCE OVERCURRENT RELAY
- 47 – PHASE SEQUENCE VOLTAGE RELAY
- 49 – THERMAL RELAY
- 50 – INSTANTANEOUS OVERCURRENT RELAY
- 50N – INSTANTANEOUS GROUND FAULT RELAY
- 51 – TIME OVERCURRENT RELAY
- 51N – TIME GROUND FAULT OVERCURRENT RELAY
- 51V – VOLTAGE RESTRAINED TIME OVERCURRENT RELAY
- 59 – OVERVOLTAGE RELAY
- 81 – FREQUENCY RELAY
- 86 – LOCK OUT RELAY
- 87T – DIFFERENTIAL TRANSFORMER RELAY
- 87N – DIFFERENTIAL GROUND RELAY
- 87B – DIFFERENTIAL BUS RELAY
- 87G – DIFFERENTIAL GENERATOR RELAY

POWER DISTRIBUTION ONE LINE

- GFR OR GFR — GROUND FAULT RELAY
- CM — CIRCUIT MONITOR
- TU — TRIP UNIT (MICROPROCESSOR BASED)
- SPD — SURGE PROTECTIVE DEVICE
- FUSED SWITCH
- OR T — TRANSFORMER
- OR — AUTO TRANSFER SWITCH
- CIRCUIT BREAKER
- DRAWOUT CIRCUIT BREAKER
- PANELBOARD
- ST — SHUNT TRIP
- BUS
- ELECTRICAL FEEDER SYMBOL
- FUSE
- NON FUSED SWITCH
- SPACE
- K — KEYED INTERLOCK
- DRAWOUT FUSED POTENTIAL TRANSFORMER
- POTENTIAL CURRENT TRANSFORMER
- OR — CURRENT TRANSFORMER
- STRESS RELIEF
- MISCELLANEOUS DEVICE • FOR DEVICE TYPE SEE ANSI/IEEE DEVICE NUMBERS
- MOTOR
- OT — OVER TEMPERATURE SENSOR
- UV — UNDER VOLTAGE SENSOR
- CAPACITOR
- FUSED SWITCH WITH SOURCE SELECTION BY KEYED INTERLOCK
- MV DRAWOUT FUSE
- MV FUSED SWITCH
- MV DRAW OUT TRANSFORMER
- SPARE CELL — MV DRAW OUT SPARE
- CPT — MV CONTROL POWER TRANSFORMER
- MV DRAW OUT CIRCUIT BREAKER
- LA — MV LIGHTNING ARRESTOR
- MV PROTECTIVE RELAY
- MV STRESS RELIEF
- PFCC — MV POWER FACTOR CORRECTION CAPACITOR
- K — KIRK KEY
- B — STANDALONE CIRCUIT BREAKER

SPECIAL PURPOSE RECEPTACLES

- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) NEMA 5–20R DUPLEX
- A — 20A, 250V, AC, 2 POLE, 3 WIRE, GND NEMA 6–20R
- B — 20A, 125/250V, AC, 3 POLE, 4 WIRE, GND NEMA 14–20R
- C — 20A, 250V, 3PH, AC, 3 POLE, 4 WIRE, GND NEMA 15–20R
- D — 30A, 125V, AC, 2 POLE, 3 WIRE, GND NEMA 5–30R
- E — 30A, 250V, AC, 2 POLE, 3 WIRE, GND NEMA L6–30R
- F — 30A, 125/250V, AC, 3 POLE, 4 WIRE, GND NEMA 14–30R
- G — 30A, 250V, 3Ø, AC, 3 POLE, 4 WIRE, GND NEMA 15–30R
- H — 50A, 125V, AC, 2 POLE, 3 WIRE, GND NEMA 5–50R
- J — 50A, 250V, AC, 2 POLE, 3 WIRE, GND NEMA 6–50R
- K — 50A, 125/250V, AC, 3 POLE, 4 WIRE, GND NEMA 14–50R
- L — 50A, 250V, 3Ø, AC, 3 POLE, 4 WIRE, GND NEMA 15–50R

SWITCHES

			HEIGHT
(SWITCH)	*	: SINGLE POLE SWITCH	48"
	2	: TWO POLE SWITCH	
	3	: THREE POLE SWITCH	
	4	: FOUR POLE SWITCH	
(WITH PILOT LIGHT)	K	: KEY SWITCH	
	MC	: MOMENTARY CONTACT SWITCH	
	M	: MOTOR RATED SWITCH	
	MSS	: MOTOR STARTER SWITCH	
(DIGITAL SWITCH)	**	: SWITCH LEG REFERENCE	
	PUSH BUTTON		48"
	DIMMER		48"
	OCCUPANCY SENSOR		48"
1	SINGLE CONTACT OCCUPANCY SENSOR		48"
2	DUAL CONTACT OCCUPANCY SENSOR		48"
DT	OCCUPANCY SENSOR WITH POWER PACK(DUAL TECH)		CEILING
	PHOTO CELL/LIGHT LEVEL SENSOR		VERIFY
T	DIGITAL TIME SWITCH		48"

POWER DEVICES

		HEIGHT
	SINGLE RECEPTACLE	18"
	DUPLEX RECEPTACLE	18"
	DUPLEX RECEPTACLE ON EMERGENCY BRANCH	18"
OR	DOUBLE DUPLEX RECEPTACLE	18"
	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING
	COMBINATION 120/208 V RECEPTACLE	18"
	PEDESTAL OUTLET	
	MOBILE X–RAY OUTLET	24"
	GROUND OUTLET	VERIFY
MOA–*–	MULTI OUTLET ASSEMBLY (PLUGSTRIP) • – A (RECEPTACLES @12" O.C.) • – B (RECEPTACLES @18" O.C.) • – C (RECEPTACLES @24" O.C.) • – D (RECEPTACLES @36" O.C.)	VERIFY
	WALL MOUNTED BLANK OUTLET	VERIFY
	CEILING MOUNTED BLANK OUTLET	VERIFY
	COMBINATION MOTOR STARTER	
	MOTOR STARTER	
	POWER POLE	
	FLOOR BOX / POKE THROUGH	
	DISCONNECT	
OR	GROUND BUS/BAR	
	TRANSFORMER	
	MOTOR ON NORMAL BRANCH	
	MOTOR ON EMERGENCY BRANCH	
	RELAY	
	WALL MOUNTED ENCLOSED CIRCUIT BREAKER	
VF	VARIABLE SPEED DRIVE	
	ANNUNCIATOR	
	POWER DISTRIBUTION CABINET	
	208/120V PANELBOARD (SURFACE OR FLUSH MOUNTED)	
	480/277V PANELBOARD (SURFACE OR FLUSH MOUNTED)	
	TERMINAL CABINET	
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	
ATS	AUTOMATIC TRANSFER SWITCH	
	TELEPHONE BACKBOARD	

HOME RUN — L3N — PANELBOARD INDENTIFICATION — 1,3,5 — CIRCUIT NUMBERS — NEUTRAL

WIRE COUNT SHOWN ON HOME RUN ONLY. CONTRACTOR TO PROVIDE PROPER AMOUNT OF WIRES FOR CIRCUITING AND CONTROL INTENT.

INDICATES GROUND WIRE– SIZE SAME AS CCT WIRES

LIGHTING FIXTURES

FIXTURE TYPE DESIGNATION — A; CIRCUIT NUMBER — 3; SWITCH LEG REFERENCE — o/b; INDICATES MULTIPLE LEVEL SWITCHING

LIGHTING SIZES:

1' X 4' · 2' X 2' · 2' X 4' · 4' X 4' · 6" X 24" · 6" X 36" · 6" X 48" · 6" X 96" · 48" X 20" · 24" X 20"

LIGHTING STYLES:
- WALL MOUNTED

LIGHTING BRANCHES:
- NORMAL
- CRITICAL
- LIFE SAFETY

- DOWNLIGHT
- WALLWASH
- STEP LIGHT/NIGHT LIGHT
- WALL SCONCE/WALLPACK
- POLE
- LAMP HEAD/HOUSING

SEE LIGHTING SCHEDULE

- EXIT LIGHT–WITH DIRECTIONAL ARROW(S) SHADED AREA INDICATES ILLUMINATED FACE(S)
- ONE HEADED EMERGENCY LIGHT WITH BATTERY PACK
- TWO HEADED EMERGENCY LIGHT WITH BATTERY PACK
- TRACK LIGHTING, SEE LIGHTING SCHEDULE (NOTE OUTLET BOXES SHALL BE INCLUDED WITH OR ADJACENT TO ALL FIXTURES WHERE REQUIRED BY CODE OR NECESSARY FOR APPROVED WIRING METHODS) INDICATES NUMBER OF FIXTURES ON TRACK

NURSE CALL SYSTEM

			HEIGHT
(WALL)	*	: NURSE CALL DEVICE	
	M	: MASTER STATION	DESK
	M1	: MINI MASTER STATION	DESK
	B	: SINGLE BEDSIDE STATION	48"
	BI	: TWO GANG BED INTERFACE UNIT	18"
(CEILING)	C	: CORRIDOR DOME LIGHT	VERIFY
	CB	: CODE BLUE CALL STATION	48"
	E	: TOILET EMERGENCY STATION	42"
	E1	: SHOWER EMERGENCY STATION	48"
	D	: DUTY STATION	48"
	S	: STAFF STATION	48"
	SA	: STAFF ASSIST CALL STATION	48"
	Z	: ZONE DOME LIGHT	VERIFY
	CB/SA	: DUAL CODE BLUE/STAFF ASSIST CALL STATION	48"
P		PHYSIOLOGICAL MONITORING	48"
C		ANESTHESIA CALL	48"
A		ANESTHESIA	48"
RM		ROOM OCCUPANCY	48"

CLOCK

		HEIGHT
	WALL MOUNTED CLOCK OUTLET	VERIFY
C	CEILING MOUNTED CLOCK	
E	WALL MOUNTED ELAPSED TIME CLOCK OUTLET	

TELEVISION SYSTEM

		HEIGHT
TV	WALL MOUNTED TV OUTLET – COAX & CAT 6	VERIFY
TV	CEILING MOUNTED TV OUTLET – COAX & CAT 6	CEILING
	WALL MOUNTED PROJECTOR OR A/V INPUT	VERIFY
	CEILING MOUNTED PROJECTOR OR A/V OUTPUT	CEILING

SOUND SYSTEM

		HEIGHT
S	CEILING MOUNTED SPEAKER	CEILING
S OR S	WALL MOUNTED SPEAKER	VERIFY
	HORN SPEAKER	80"
V	VOLUME CONTROL UNIT	24"
M	MICROPHONE OUTLET	18"

ACCESS CONTROL/CCTV SYSTEMS

		HEIGHT
ES	SECURITY SYSTEM ELECTRIC STRIKE	VERIFY
ALARM	SECURITY SYSTEM ALARM	VERIFY
EH	SECURITY SYSTEM ELECTRIC HINGE	VERIFY
DM	DOOR POSITION MONITOR	VERIFY
RTE	REQUEST–TO–EXIT DEVICE	VERIFY
	CARD READER	42"
	SECURITY CAMERA	VERIFY
* OR *	SECURITY POINT	VERIFY
	KEYPAD	VERIFY
AVM	INTERCOM – AUDIO/VISUAL MASTER STATION	DESK
AVC	INTERCOM – AUDIO/VISUAL CALL STATION	48"
AM	INTERCOM – AUDIO MASTER STATION	DESK
AC	INTERCOM – AUDIO CALL STATION	48"
	INTERCOM WITH BLUE LIGHT	VERIFY
	MAGNETIC LOCK	VERIFY

PHONE/DATA SYSTEM

		HEIGHT
∞	DATA OUTLET (∞ – INDICATES # OF DATA JACKS; 2 DATA UNLESS NOTED OTHERWISE)	18"
	VOICE/DATA OUTLET (∞,V – INDICATES # OF DATA/VOICE JACKS; 1 DATA & 1 VOICE JACK UNLESS NOTED OTHERWISE)	18"
	TELEPHONE OUTLET	18"
W	WALL PHONE OUTLET	48"
W	WALL MOUNTED DICTATION OUTLET	18"
	TERMINAL CABINET	VERIFY
	STATION FIBER OUTLET	VERIFY

MISCELLANEOUS

	HEIGHT
RACEWAY INSTALLED CONCEALED IN WALL OR CEILING	
RACEWAY INSTALLED EXPOSED	
RACEWAY INSTALLED IN SLAB	
RACEWAY INSTALLED BELOW SLAB OR GRADE	
RACEWAY SEAL	
RACEWAY. B: BUSHED. C: CAPPED	
RACEWAY DOWN	
RACEWAY UP	
EXISTING RACEWAY TO REMAIN UNLESS NOTED	
RACEWAY CONTINUATION	
WALL MOUNTED BRACKET	
WALL BOX	
CEILING BOX	
MISCELLANEOUS ENCLOSURE	
BELL	96"
CHIME	96"
BUZZER	96"
ANNUNCIATOR LIGHT	VERIFY
DICTATION OUTLET	96"
KEYNOTE REFERRING TO SPECIFIC NUMBERED NOTE	
MEDICAL GAS ALARM PANEL	
DAMPER OPERATOR	
(CO)CARBON MONOXIDE MONITOR	
(O2)OXYGEN DEPLETION MONITOR	

ELECTRICAL ABBREVIATIONS

A	AMPERE	LA	LIGHTNING ARRESTOR
AC	ALTERNATING CURRENT	LOC	LOCATION
ACB	AIR CIRCUIT BREAKER	LTG	LIGHTING, LIGHT OR LIGHTS
ADD	ADDENDUM	LFMC	LIQUIDTIGHT FLEXIBLE CONDUIT
AF	AMPERE FRAME	MAN	MANUAL
AFC	AVAILABLE FAULT CURRENT	MAX	MAXIMUM
AFD	VARIABLE FREQUENCY DRIVE	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AIC	AMPS INTERRUPTING CAPACITY (RATING)	MCCB	MOLDED CASE CIRCUIT BREAKER
AM	ANESTHESIA MONITOR	MECH	MECHANICAL
ANUN	ANUNCIATOR	MIC	MICROWAVE
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
ASD	VARIABLE FREQUENCY DRIVE	MFR	MANUFACTURER
AT	AMPERE TRIP	MFS	MAIN FUSED SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	MH	MAN HOLE
ATU	AIR TERMINAL UNIT	MLO	MAIN LUGS ONLY
AUTO	AUTOMATIC	MTR	MOTOR
AUX. CON.	AUXILLARY CONTACTS	MS	MOTOR STARTER
BFG	BELOW FINISHED GRADE	MSP	MOTOR STARTER PANEL
C	CONDUIT	MSS	MOTOR STARTER SWITCH
CAB	CABINET	MT	EMPTY
CB	CIRCUIT BREAKER	MTD	MOUNTED
CCTV, CKT	CIRCUIT	MTS	MANUAL TRANSFER SWITCH
CCTV	CLOSED CIRCUIT TELEVISION	N.C.	NORMALLY CLOSED
CEE	CONCRETE ENCASED ELECTRODE	N.C/C	NURSE CALL
CLG	CEILING	NCC	NURSE CALL CABINET
CM	CONSTRUCTION MANAGER	NF	NON FUSED
CMT	CONDUIT EMPTY	N.O.	NORMALLY OPEN
COMB	COMBINATION	O.C.	ON CENTER
CONN	CONNECTION, CONNECTOR OR CONNECT	OPER	OPERATE(D)
CONTR	CONTRACTOR	PH OR #	PHASE
COORD	COORDINATE	P	POLE
COR	CORRIDOR	PB	PUSH BUTTON
CPT	CONTROL POWER TRANSFORMER	PC	PERSONAL COMPUTER
CRT	CATHODE RAY TUBE	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CV	CARDIOVASCULAR	PHY	PHYSIOLOGICAL
DBLS	DOUBLE LUGS	PL	PILOT LIGHT
DC	DIRECT CURRENT	PNL	PANEL
DET	DETAIL	PB	PUSH PLATE
DGP	DATA GATHERING PANEL	PR	PAIR
DIST	DISTRIBUTION	PROC	PROCESSOR
DIV	DIVISION	PT	POTENTIAL TRANSFORMER
DM	DOOR MONITOR	PTR	PRINTER
DN	DOWN	PUT	PUSH TO TEST
DO	DRAW OUT	PVC	POLYVINYL CHLORIDE
DP	DATA PROCESSING	PWR	POWER
DWG	DRAWING	REC	RECEPTACLE
EKG	ELECTROCARDIOGRAPH SYSTEM	REF	REFRIGERATOR
ELEC	ELECTRICAL	RG	RIGID
ENDO	ENDOSCOPE	RO	REVERSE OSMOSIS
EO	ELECTRICAL OUTLET	SCCA	SHORT CIRCUIT CURRENT AVAILABLE
EQ	EQUAL	SCCR	SHORT CIRCUIT CURRENT RATING
EQUIP	EQUIPMENT	SCTV	SECURITY CAMERA TV
EXIST	EXISTING	SPKR	SPEAKER
EP	EXPLOSION PROOF	SPEC	SPECIFICATION
EOLD	END OF LINE DEVICE	SPD	SURGE
EWC	ELECTRIC WATER COOLER	SSW	SAFETY SWITCH
F	FUSED	STA	STAINLESS
FA	FIRE ALARM	SUR	SURFACE
FDR	FEEDER	SW	SWITCH
FIN FL	FINISHED FLOOR	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	SWGR	SWITCHGEAR
FU	FUTURE	TC	TIME CLOCK
FIXT	FIXTURE, LTG	TEL	TELEPHONE
FRZ	FREEZER	TERM	TERMINAL
FV	FILM VIEWER (ILLUMINATOR)	TRANSF	TRANSFORMER
FWD	FLEXIBLE WIRING DUCT	TV	TELEVISION
GND OR G	GROUND	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UFD	UNDER FLOOR DUCT
HH	HAND HOLE	UG	UNDERGROUND
HP	HORSEPOWER	UH	UNIT HEATER
HTG	HEATING	UP	UNDERGROUND POWER
HTR	HEATER	V	VOLTS
HZ	HERTZ	VA	VOLT AMPERE
IC	INTERRUPTING CAPACITY	VCB	VACUUM CIRCUIT BREAKER
I/C	INTERCOM	VF	VARIABLE FREQUENCY DRIVE
IG	INTERLOCK	VFD	VARIABLE FREQUENCY DRIVE
ISP	ISOLATED POWER PANEL	VM	VOLT METER
JB OR J	JUNCTION BOX	W	WATTS
KAIC	KILO AMPS INTERRUPTING CURRENT	WM	WATT METER
KO	KNOCK OUT	WP	WEATHERPROOF
KW	KILOWATTS	Z	IMPEDENCE
KV	KILOVOLTS		
KVA	KILOVOLT AMPERE		

GENERAL NOTES

A. INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM FIELD NOTES. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDS AND FIELD VERIFY ITEMS SHOWN. ANY DISCREPANCIES BETWEEN THIS DRAWING AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER/CONTRACTOR PRIOR TO BIDS.

B. COOPERATE WITH OTHER TRADES FOR PROPER INSTALLATION OF ITEMS OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH–IN.

C. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK. VACUUM CONSTRUCTION DUST FROM PANELBOARDS AND JUNCTION BOXES.

D. RACEWAY SYSTEMS SHALL BE RUN HORIZONTALLY NEAR CEILING, WITH VERTICAL DROPS NEAR CORNERS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BID AND SHALL BE RESPONSIBLE TO DETERMINE ROUTING AND QUANTITIES AS REQUIRED TO MAINTAIN CLEARANCE FOR RACEWAY COVER REMOVAL AND PROVIDE ALL OFFSETS, ETC. TO AVOID EXISTING CONDUITS AND DEVICES.

E. ANY NEW WIRING THROUGH FINISHED AREAS MUST BE INSTALLED IN PRE FINISHED SURFACE RACEWAY PAINTED TO MATCH ADJACENT SURFACES.

F. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN EXISTING CIRCUIT CONTINUITY ON ALL LINE AND LOW–VOLTAGE SYSTEMS ON THE SITE THAT ARE TO REMAIN, TEMPORARILY OR PERMANENTLY DUE TO CONSTRUCTION PHASING.

G. EXISTING WORKING ELECTRICAL CONDUITS AND CABLES THAT ARE SUPPORTED ON OR BY CEILING MEMBERS BEING REMOVED TO ACCOMPLISH THE WORK, OR OTHER ITEMS BEING REMOVED, SUCH AS DUCT WORK, PIPING EQUIPMENT, ETC., SHALL BE REMOUNTED TO MEET N.E.C. STANDARDS BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL SYMBOL NOTES

1. INSTALL EQUIPMENT AT THE MOUNTING HEIGHT INDICATED UNLESS INDICATED OTHERWISE. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED ABOVE. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE FROM FINISHED FLOOR.
2. CAPITAL LETTERS ADJACENT TO SYMBOLS INDICATE UNIT TYPE– SEE SPECS.
3. DASHED SYMBOLS INDICATE EXISTING FIXTURES AND DEVICES.
4. SWITCH NEAREST DOOR TO CONTROL OUTBOARD LAMPS, OTHER SWITCH TO CONTROL INBOARD LAMPS.

DRAWING INDEX

SHEET NUM.	SHEET NAME
5-E01	ELECTRICAL TITLE AND SYMBOLS SHEET
5-ES01	ELECTRICAL SITE PLAN
~~5-ED10G~~	~~ELECTRICAL PWR, LTG & COMM GROUND FLOOR DEMOLITION PLAN~~
~~5-ED101~~	~~ELECTRICAL PWR, LTG & COMM 1st & 2nd FLOOR DEMOLITION PLAN~~
~~5-ED102~~	~~ELECTRICAL PWR, LTG & COMM 3rd & 4th FLOOR DEMOLITION PLAN~~
~~5-EP10G~~	~~ELECTRICAL POWER GROUND FLOOR PLAN~~
~~5-EP101~~	~~ELECTRICAL POWER FIRST FLOOR PLAN~~
~~5-EP102~~	~~ELECTRICAL POWER SECOND FLOOR PLAN~~
~~5-EP103~~	~~ELECTRICAL POWER THIRD AND FOURTH FLOOR PLAN~~
~~5-EP104~~	~~ELECTRICAL ROOF / LIGHTNING PROTECTION PLAN~~
~~5-EL10G~~	~~ELECTRICAL LIGHTING GROUND FLOOR PLAN~~
~~5-EL101~~	~~ELECTRICAL LIGHTING FIRST FLOOR PLAN~~
~~5-EL102~~	~~ELECTRICAL LIGHTING SECOND FLOOR PLAN~~
~~5-EL103~~	~~ELECTRICAL LIGHTING THIRD AND FOURTH FLOOR PLAN~~
~~5-EY10G~~	~~ELECTRICAL COMMUNICATIONS GROUND FLOOR PLAN~~
~~5-EY101~~	~~ELECTRICAL COMMUNICATIONS FIRST FLOOR PLAN~~
~~5-EY102~~	~~ELECTRICAL COMMUNICATIONS SECOND FLOOR PLAN~~
~~5-EY103~~	~~ELECTRICAL COMMUNICATIONS THIRD AND FOURTH FLOOR PLAN~~
~~5-E401~~	~~ELECTRICAL POWER AND LIGHTING ENLARGED FLOOR PLANS~~
~~5-E402~~	~~ELECTRICAL POWER AND COMMUNICATIONS ENLARGED FLOOR PLANS~~
5-E501	ELECTRICAL DETAILS
~~5-E502~~	~~ELECTRICAL DETAILS~~
~~5-E601~~	~~ELECTRICAL LIGHTING FIXTURE SCHEDULE~~
~~5-E602~~	~~ELECTRICAL MOTOR SCHEDULE~~
~~5-E603~~	~~ELECTRICAL SCHEDULES AND DETAILS~~
~~5-E604~~	~~ELECTRICAL PANELBOARD SCHEDULES~~
~~5-E701~~	~~ELECTRICAL MEDIUM VOLTAGE & ELECTRICAL GROUNDING ONE LINE DIAGRAMS~~
~~5-E702~~	~~ELECTRICAL ONE LINE/RISER DIAGRAM~~

100%–FINAL–NOT FOR CONSTRUCTION
FULLY SPRINKLERED

Revision Schedule

Revision Number	Revision Date

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2009

Drawing Title: **ELECTRICAL TITLE AND SYMBOL SHEET**

Approved: Project Director

Project Title: RECONSTRUCT ROAD

Location: **SIOUX FALLS, SD**

Date: 10/26/12 | Checked: **D.R.** | Drawn: **L.F.**

Project Number: 438-13-102

Building Number

Drawing Number

Dwg. 16 of 17

Construction & Facilities Management — CFM — Department of Veterans Affairs