ELECTRICAL LEGEND

#	DRAWING NOTE (APPLIES TO THIS DRAWING ONLY)
	DETAIL, SECTION OR ELEVATION NUMBER DRAWING NUMBER
#	REVISION NUMBER - CLOUDED AREA ON DRAWING CONTAINS REVISION
	RACEWAY - 2 #12, 1 #12 GW IN 3/4" CONDUIT, U.O.N.
	HOMERUN TO PANELBOARD - ARROWS INDICATE NUMBER OF CIRCUITS SLASHES INDICATE CIRCUIT CONDUCTORS NO SLASH INDICATES TWO CIRCUIT CONDUCTORS PROVIDE GROUNDING CONDUCTOR, NOT SHOWN
	INDICATES TWO SWITCHED LEVELS OF ILLUMINATION PROVIDED BY THIS FIXTURE CONNECT TWO OUTBOARD LAMPS TO ONE SWITCH CONNECT REMAINING LAMP(S) TO SECOND SWITCH (DARKENED AREA INDICATES CONNECTION TO EMERGENCY LIGHTING CIRCUIT)
A / a	UPPER CASE - FIXTURE TYPE (TYPICAL FOR ALL LIGHTING FIXTURES) - SEE LIGHTING FIXTURE SCHEDULE LIGHTING FIXTURE: DOWNLIGHT, 2' x 4' & 2' x 2' LOWER CASE - INDICATES CONTROLLING SWITCH(ES) (TYPICAL FOR ALL LIGHTING FIXTURES)
	FLUORESCENT LIGHTING FIXTURE
	FLUORESCENT LIGHTING FIXTURE, INDUSTRIAL TYPE
	LIGHTING FIXTURE ON EMERGENCY CIRCUIT / BATTERY BACKUP
	LIGHTING FIXTURE, WALL MOUNTED - SEE LIGHTING FIXTURE SCHEDULE
	EXIT LIGHT - DARKENED SECTION INDICATES FACE WITH DIRECTIONAL ARROWS AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE
S_a	SINGLE POLE TOGGLE SWITCH - SUBSCRIPT INDICATES FIXTURES CONTROLLED BY THE SWITCH (TYPICAL FOR ALL LIGHTING SWITCHES), 48" A.F.F., U.O.N.: 3 - THREE WAY TOGGLE SWITCH, 4 - FOUR WAY TOGGLE SWITCH, D - DIMMER SWITCH, O - WALL MTD. OCCUPANCY SENSOR, WP - WEATHERPROOF
J	JUNCTION BOX: CEILING, WALL OR FLUSH-FLOOR MOUNTED
GFCI WP	DUPLEX RECEPTACLE - 2P, 3W, 2OA, 125V, NEMA 5-2OR IN RECESSED OUTLET BOX, 18" A.F.F., U.O.N.: "x" NUMERIC DENOTES MOUNTING HEIGHT. WP - WEATHERPROOF, MW - MICROWAVE, GFCI - GROUND FAULT CIRCUIT INTERRUPTER, R - REFRIGERATOR, CM - COFFEE MAKER, TC - TELECOM, DW - DISHWASHER, IG - ISOLATED GROUND
	DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTERTOP BACK SPLASH UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - 2P, 3W, 2OA, 125V, NEMA 5-2OR IN SURFACE OUTLET BOX, SURFACE MOUNTED, 18" A.F.F., U.O.N.
	TWO DUPLEX RECEPTACLES WITH COMMON FACEPLATE 2P, 3W, 2OA, 125V, NEMA 5-2OR IN RECESSED TWO-GANG OUTLET BOX, 18" A.F.F., U.O.N.
	DUPLEX RECEPTACLE - 2P, 3W, 2OA, 125V, NEMA 5-2OR IN FLUSH MOUNTED CEILING OUTLET BOX
	DUPLEX RECEPTACLE - 2P, 3W, 2OA, 125V, NEMA 5-2OR IN FLUSH MOUNTED FLOOR OUTLET BOX REFER TO DETAIL ON SHEET E4.01
#	SPECIAL RECEPTACLE, 18" A.F.F. U.O.N. (TYPE AS NOTED) 1 - RANGE: NEMA '14-5O' RECEPTACLE, 3O" A.F.F. 2 - DRYER: NEMA '14-3O' RECEPTACLE, 3O" A.F.F. 3 - SERVER RACK: NEMA 'L5-3OR' RECEPTACLE, 3O" A.F.F.
	COMBINATION TELEPHONE/DATA OUTLET. PROVIDE EMPTY JUNCTION BOX WITH SINGLE GANG EXTENSION WITH 1" CONDUIT FROM BOX TO ACCESSIBLE CEILING SPACE WITH PULL STRING. CABLE, JACKS AND FACEPLATES PROVIDED BY OTHERS. SEE I.T. FOR ADDITIONAL WORK.
	TELEPHONE TERMINAL BOARD
	PANELBOARD, RECESSED OR SURFACE MOUNTED
	ELECTRICAL MOTOR
S_M	MOTOR SWITCH WITH THERMAL OVERLOAD
60	NONFUSED DISCONNECT SWITCH, NUMERAL INDICATES SIZE
60	COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH. SIZE FVNR NEMA STARTER AS REQUIRED. NUMERIAL INDICATES SIZE OF DISCONNECT
O	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY SENSOR AS MANUFACTURED BY WATTSTOPPER OR APPROVED EQUAL.
PP	POWER PACK FOR OCCUPANCY SENSOR

ELECTRICAL LEGEND

15	FIRE ALARM VISUAL DEVICE, SUBSCRIPT DENOTES CANDELA RATING, 8O" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
15	FIRE ALARM HORN WITH VISUAL DEVICE, SUBSCRIPT DENOTES CANDELA RATING, 8O" A.F.F. OR 6" BELOW CEILING, WHICHEVER IS LOWER.
S S	FIRE ALARM SPEAKER, CEILING OR WALL MOUNTED
	FIRE ALARM MANUAL STATION, 48" A.F.F., U.O.N.
	SPRINKLER VALVE POSITION (TAMPER) SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH
MM	FIRE ALARM ADDRESSABLE MODULE
LA	SPRINKLER LOW AIR ALARM SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM BELL / GONG
	SMOKE DETECTOR
9OA	LOW VOLTAGE MOLDED CASE CIRCUIT BREAKER, RATING AS INDICATED, SEE SCHEDULE FOR TYPE AND ACCESSORIES
T	TRANSFORMER, TYPE AS NOTED ON DRAWING
M	METER

ELECTRICAL ABBREVIATIONS

A	AMPERE
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ANSI	AMERICAN NAT'L STANDARDS INSTIT.
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CP	DOMESTIC HOT WATER CIRCULATOR PUMP
CTR	CENTER
CU	COPPER
CWP	CONDENSER WATER PUMP
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRIC / ELECTRICAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EX	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDR	FEEDER
F	FUSED OR FUSIBLE
FLA	FULL LOAD AMPERES
FSS	FUSED SAFETY SWITCH
FVNR	FULL VOLTAGE NON REVERSING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HWP	HEATING WATER PUMP
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MT HT	MOUNTING HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
NF	NON-FUSED
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH or Ø	PHASE
P	POLE
PB	PUSH BUTTON
PNL	PANEL
RM	ROOM
SW	SWITCH
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
XFMR	TRANSFORMER
W	WIRE
WP	WEATHERPROOF

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LENS/ LOUVER	MOUNTING	VOLTS	LAMP DATA NO.	WATTS	CODE	MANUFACTURER & CATALOG NO.	NOTES
A	1' X 4 DIRECT/INDIRECT CENTER MOUNT LOUVERED BASKET W/ DIMMING BALLAST (OR APPROVED EQUAL) MOUNTED IN GYPSUM BOARD	-	CR	120	2	28	28W T8	COLUMBIA OR APPROVED EQUAL # STE14-228G-MPO-ED-U-FK14	
A1	1' X 4 DIRECT/INDIRECT CENTER MOUNT LOUVERED BASKET W/ BATTERY PACK W/ DIMMING BALLAST (OR APPROVED EQUAL) MOUNTED IN GYPSUM BOARD	-	CR	120	2	28	28W T8	COLUMBIA OR APPROVED EQUAL # STE14-228G-MPO-ED-U-EL-FK14	
B	4' WALL MOUNT OVER SINK FLUORESCENT WRAP FIXTURE	ACRYLIC	WS	120	2	28	28W T8	COLUMBIA OR APPROVED EQUAL # W4-228-E120	
C	4' OVER HEADBOARD HOSPITAL FIXTURE WITH UPLIGHT, DOWNLIGHT, AND NIGHT LIGHT SETTINGS	ACRYLIC	WS	120	1 2	28 28	28WT8 28WT8	COLUMBIA OR APPROVED EQUAL # WM4-1U2D28-EU-NL	
D	7" COMPACT FLUORESCENT DOWNLIGHT W/ DIMMING BALLAST (OR APPROVED EQUAL)	-	CR	120	1	26	26WTT	KURT VERSEN OR APPROVED EQUAL # P921 DM	
D1	7" COMPACT FLUORESCENT DOWNLIGHT W/ BATTERY PACK W/ DIMMING BALLAST (OR APPROVED EQUAL)	-	CR	120	1	26	26WTT	KURT VERSEN OR APPROVED EQUAL # P921 DM EM	
E	2' WALL MOUNT OVER SINK FLUORESCENT WRAP FIXTURE	-	WS	120	2	17	17W T8	COLUMBIA OR APPROVED EQUAL # W2-217-E120	
F	4' INDUSTRIAL FIXTURE	-	CS	120	2	28	28W T8	COLUMBIA OR APPROVED EQUAL # CSR4-2-28-ST-EU	
G	WET LOCATION SURFACE MOUNT COMPACT FLUORESCENT DOWNLIGHT	-	CS	120	-	-	-	HUBBELL OR APPROVED EQUAL # BRLU-01	
H	WET LOCATION EXTERIOR OVER DOOR LIGHTING W/ BATTERY PACK	-	WS	120	-	-	LED	LITHONIA OR APPROVED EQUAL # WSR LED-2-10A700/40K-SR3-120-ELCW-DDBXD	
J	WET LOCATION EXTERIOR ENTRY LIGHTING W/ BATTERY PACK	ACRYLIC	WS	120	-	-	LED	EVERGREEN OR APPROVED EQUAL # EVOL22-WALL-44-(3)15WLED-BA-WDA-EMR,900 LUMEN	
	EXIT SIGN	-	-	UNV	-	-	LED	LITHONIA OR APPROVED EQUAL # LQM-S-W-3-G-120/277-EL N	1

MOUNTING:
CS - CEILING, SURFACE
CR - CEILING, RECESSED, ACT
CC# - CEILING, SUSPENDED, # FEET A.F.F.
CG - CEILING, RECESSED, GYPSUM BD.
WS# - WALL MTD., SURFACE, # FEET A.F.F.
WR# - WALL, RECESSED, # FEET A.F.F.
UC - UNDER CABINET

LIGHTING FIXTURE NOTES:

1. PROVIDE MOUNTING TYPES, DIRECTIONAL ARROWS AND FACE QUANTITIES (SINGLE / DOUBLE) AS INDICATED ON DRAWING. COORDINATE LETTERING COLOR OF THE EXIT SIGN WITH AUTHORITY HAVING JURISDICTION.

ELECTRICAL GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM NAME LIST.
2. THE ELECTRICAL CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE SCOPE AND THE GENERAL ARRANGEMENT OF THE SYSTEMS. WHERE APPLICABLE THE FOLLOWING NOTES SHALL APPLY TO ALL ELECTRICAL SYSTEMS.
3. REFER TO MECHANICAL PLANS FOR EXACT MECHANICAL EQUIPMENT LOCATION & ELECTRICAL CONNECTION REQUIREMENTS.
4. ALL EQUIPMENT SHOWN ON DEMOLITION PLAN IS EXISTING. ELECTRICAL EQUIPMENT SHOWN SOLID AND LIGHT SHALL REMAIN ALONG WITH ASSOCIATED WORK UNLESS OTHERWISE NOTED. ELECTRICAL EQUIPMENT SHOWN DASHED AND DARK SHALL BE REMOVED AND DISPOSED OF.
5. PROVIDE APPROVED FIRE STOPPING MATERIAL AROUND ALL CONDUIT AND WIRE PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED FLOORS AND WALLS.
6. AS AN INTEGRAL PART OF THESE DOCUMENTS, THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO THE BEGINNING OF ANY WORK. FAILURE TO VISIT THE SITE SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY.
8. RETURN TO OWNER, AT THEIR DISCRETION, ALL UNUSED ELECTRICAL EQUIPMENT (I.E. FIXTURES, PANELS, ETC).
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF LIGHTING FIXTURES.
10. CIRCUIT NUMBERS INDICATED ARE FOR CLARIFICATION OF GROUPING ONLY. ADJUST CIRCUIT NUMBERS TO COORDINATE WITH ACTUAL CIRCUIT BREAKERS USED.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAYS, JUNCTION BOXES, AND DEVICE BOXES AS NEEDED FOR CABLE PATHWAYS AND DEVICE INSTALLATION FOR ALL WORK SHOWN ON THE T SHEETS. COORDINATE ALL WORK ON T SHEETS WITH OTHER TRADES.

FULLY SPRINKLERED
CONTRACT DOCUMENTS SUBMISSION

Additions: | Date:
Revisions:

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Drawing Scale:
Drawing Start Date:
Drawing Finish Date:
Drawing Approved:

Drawing Title: ELECTRICAL LEGEND, ABBREVIATIONS, AND FIXTURE SCHEDULE
Approved: Associate Director for Operations:
Approved: Chief, Facilites Engineer:
Approved: Director, Medical Center:

Project Title: BUILDING 5 RENOVATION
Building No: 5 | Checked: RAM | Drawn: BMG
Location: VAMHCS MEDICAL CENTER WILMINGTON, DELAWARE

Date: 6–15–2012
Project No: 460–13–111
DRAWING NO: E0.01
Dwg. 47 Of 67

DEPARTMENT OF VETERANS AFFAIRS

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