ELECTRICAL ABBREVIATIONS

+	DEVICE MOUNTED ABOVE TYPICAL HEIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHT.
1PH	SINGLE–PHASE
1P	SINGLE POLE
2/C	TWO–CONDUCTOR
3/C	THREE–CONDUCTOR
3PH	THREE–PHASE
4/C	FOUR–CONDUCTOR
4W	FOUR–WIRE
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AF	AMPERE FRAME OR AMP FUSE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMB OR A	AMBIENT
AMP	AMPERE
ARCH	ARCHITECT
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BIL	BASIC INSULATION LEVEL
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BRKR	BREAKER
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DCP	DIMMER CONTROL PANEL
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DISTR PNL	DISTRIBUTION PANEL
DMR SW	DIMMER SWITCH
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DRSW	DOOR SWITCH
DS	DISCONNECT SWITCH
DWG	DRAWING
(E)	EXISTING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
(ER)	EXISTING TO BE RELOCATED
ESMT	EASEMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FABL	FIRE ALARM BELL
FABX	FIRE ALARM BOX
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FI	FILM ILLUMINATOR
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
FLT	FLOODLIGHT
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON–REVERSING
FVR	FULL VOLTAGE REVERSING
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GTB	GROUND TERMINAL BOX
HID	HIGH INTENSITY DISCHARGE
HOA	HAND–OFF–AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J–BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR
kWHM	KILOWATT HOUR METER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL–CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLT–AMPERE
MW	MEGAWATT MICROWAVE
(N)	NEW
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PCB	POLYCHLORINATED BIPHENYL
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
POE	POWER OVER ETHERNET
PT	POTENTIAL TRANSFORMER
PTRV	POWER TYPE ROOF VENTILATION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
(R)	REMOVE
RCP	REFLECTED CEILING PLAN
(RE)	RELOCATED EXISTING
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
RTE	REQUEST TO EXIT
SCC	SHORT CIRCUIT CAPACITY
SES	SERVICE ENTRANCE SECTION
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TEL	TELEPHONE
TMP	TAMPER PROOF
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS

MOTOR, SINGLE–PHASE

MOTOR, THREE–PHASE

TRANSFORMER

EARTH GROUND

JUNCTION BOX

PULL BOX

DISCONNECT SWITCH, FUSED

DISCONNECT SWITCH, UNFUSED

STARTER, COMBINATION WITH DISCONNECT SWITCH

STARTER OR MOTOR CONTROLLER

LADDER CABLE TRAY

BRANCH CIRCUIT HOMERUN. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN

FLOOR OUTLET, DATA COMMUNICATION

PANELBOARD CABINET, FLUSH MOUNTED

PANELBOARD CABINET, SURFACE MOUNTED

RECEPTACLE, DUPLEX

RECEPTACLE, DUPLEX, CEILING MOUNTED

POKETHROUGH DEVICE WITH DUPLEX RECEPTACLE

RECEPTACLE, DUPLEX ON EMERGENCY POWER

RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER

RECEPTACLE, QUADRAPLEX

RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER

RECEPTACLE, SINGLE

RECEPTACLE, SINGLE WITH SWITCH

RECEPTACLE, SPECIAL PURPOSE
A = 120V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 5–20R.
A1 = 120V, 20A, 1 PHASE, 2–POLE, 3W, NEMA L5–20R.
B = 208V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 6–20R.
C = 120V, 30A, 1 PHASE, 2–POLE, 3W, NEMA 5–30R.
D = 208V, 30A, 1 PHASE, 2–POLE, 3W, NEMA 6–30R.
E = 208V, 60A, 1 PHASE, 3–POLE, 4W, NEMA 14–60R.
F = 208V, 30A, 3 PHASE, 3–POLE 4W, NEMA 15–30R.
G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15–50R.
H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15–60R.
J = 208V, 40A, 3 PHASE, 3 POLE, 4W, NEMA L14–40R

ELECTRICAL STRIP MOLD (OUTLETS ON 2'–0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'–6" [1067mm] AFF OR AS INDICATED.

$2 SWITCH

F = FUSED SWITCH	K = KEY OPERATED
L = LOCK	LM= LOW VOLTAGE MASTER
M = MANUAL MOTOR STARTING	MC= MOMENTARY CONTACT
MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)	P = WITH PILOT LIGHT
PB= PUSH BUTTON STATION	RC= REMOTE CONTROL
WP= WEATHER PROOF	X = EXPLOSION PROOF

PUSH PLATE OR PUSH BUTTON DOOR CONTROLLER

DEMOLITION WORK

ELECTRICAL SYMBOLS – CONTINUED

$2 SWITCH

BLANK = SINGLE POLE	2 = DOUBLE POLE
3 = THREE–WAY	4 = FOUR–WAY
D = DIMMER	K = KEY OPERATED
LV= LOW VOLTAGE	L = LOCK

N = COMBINATION NIGHTLIGHT/SINGLE–POLE SWITCH
P = WITH PILOT LIGHT

PB= PUSH BUTTON STATION	RC= REMOTE CONTROL
T = TIMER OPERATED	WP= WEATHER PROOF
X = EXPLOSION PROOF	Mo= OCCUPANCY SENSOR

OS OCCUPANCY SENSOR, CEILING MOUNTED

PX–## PANEL DESIGNATION AND CIRCUIT NUMBER (TYP)
b LOWERCASE LETTER INDICATES SWITCHING INTENT (TYP)
A UPPERCASE LETTER INDICATES FIXTURE TYPE. (TYP)

LIGHT FIXTURE, RECESSED FLUORESCENT NORMAL POWER

LIGHT FIXTURE, WALL MOUNTED FLUORESCENT NORMAL POWER

LIGHT FIXTURE, FLUORESCENT EMERGENCY POWER

DOWNLIGHT FIXTURE CEILING MOUNTED; NORMAL POWER

DOWNLIGHT FIXTURE CEILING MOUNTED; LIFE SAFETY POWER

PENDANT MOUNTED LIGHT FIXTURE

INDUSTRIAL PENDANT HUNG LIGHT FIXTURE

INDUSTRIAL PENDANT HUNG LIGHT FIXTURE; EMERGENCY POWER

WALL MOUNTED NIGHT LIGHTING FIXTURE

EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN

COMMUNICATION SYMBOLS

OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION; QUAD TYPE

POKETHROUGH DEVICE WITH COMBINATION TELE/DATA OUTLET; QUAD TYPE

J OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS:
J = JACK TYPE W = WALL TYPE

OUTLET DATA ONLY

OUTLET; LETTER INDICATES AS FOLLOWS:
A = AUDIO V = VIDEO I = INTERCOM

PA NEW SPEAKER, CEILING MOUNTED
TYPE: CLARITY BY VALCOM 2'x2' LAY–IN CEILING SPEAKER 25/70 VOLT OPERATION
PA = PUBLIC ADDRESS

PA NEW WEATHER PROOF SPEAKER, WALL MOUNTED
PA= PUBLIC ADDRESS

X SPEAKER, WALL MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND. MTD. 7'–6" [2286mm] AFF UNLESS OTHERWISE NOTED.

R RADIO CHANNEL SELECTOR FACILITIES, MTD. 4'–6" [1372mm] AFF UNLESS OTHERWISE NOTED.

R M SPEAKER PROGRAM SELECTOR SWITCH & VOLUME CONTROL MTD. 4'–6" [1372mm] AFF UNLESS OTHERWISE NOTED.

M OUTLET, TELEVISION
BLANK = 4 11/16" [119mm] MASTER ANTENNA OUTLET BOX W/BLANK COVER, MTD. 18" [457mm] AFF UNLESS OTHERWISE NOTED.
C = CAMERA (CCTV SYSTEM), MTD 18" [457mm] AFF
M = MONITOR (CTTV SYSTEM).

TV CEILING MOUNTED TELEVISION CABLE JACK. PROVIDE BACKBOX AND 1" C. TO ACCESSIBLE CEILING

TV WALL MOUNTED TELEVISION CABLE JACK. PROVIDE BACKBOX AND 1" C. TO ACCESSIBLE CEILING. VERIFY EXACT MOUNTING HEIGHT PRIOR TO INSTALLATION.

H WALL MOUNTED FEMALE HDMI OUTLET. DEVICE IS PROVIDED WITH HDMI–IN AND HDMI–OUT JACKS. VERIFY EXACT MOUNTING HEIGHT PRIOR TO INSTALLATION.

TELEPHONE TERMINAL CABINET

TTB TELEPHONE BACKBOARD (WALL MOUNTED)

REMOTE DICTATING OUTLET MTD 1'–6" [457mm] AFF. UNLESS OTHERWISE NOTED.

INTERCOM STATION (REFER TO SPECS. FOR FUNCTIONAL OPERATION OF INSTRUMENT & TYPE REQUIRED).

S INTERCOM STAFF STATION.

M T CARD ACCESS READER; MATCH EXISTING MAKE AND MANUFACTURER CURRENTLY USED ON EXISTING 2ND AND 3RD FLOOR. PROVIDE VA STANDARD YELLOW CABLE BACK TO HEADEND
LETTER INDICATES AS FOLLOWS:

M=MOUNT

C–CEILING	D–DESK	F–FLUSH	H–HIDDEN	M–MULLION
P–PEDESTAL	R–RACK	S–SURFACE	W–WALL	

T=TECHNOLOGY/TYPE

B–BARCODE	F–ELEVATOR FLOOR CALL	H–ELEVATOR HALL CALL
M–MAG STRIP	P–PROXIMITY	S–SMART CARD

OBSERVATION CAMERA, VIDEO CAMERA WITH LENS, 360° COVERAGE, MATCH EXISTING MAKE AND MANUFACTURER CURRENTLY USED ON EXISTING 2ND AND 3RD FLOOR
– PROVIDE VA STANDARD YELLOW CABLE BACK TO HEADEND

M ALARM MOTION SENSOR

RTE REQUEST TO EXIT

DH ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET

NCS NURSE'S CALL MASTER STATION MTD ON COUNTER TOP UNLESS OTHERWISE NOTED.

NCT NURSE CALL TERMINAL CABINET.

N 2 NURSE CALL STATION.

BLANK = ENHANCED PATIENT STATION MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED.
2 = DUPLICATE FACILITIES FOR TWO BEDS (SEPARATE INDICATORS AT MASTER STATION) MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED.
D = DUTY STATION. MTD 5'–0" [1524mm] AFF UNLESS NOTED OTHERWISE.
E = MTD 6'–0" [1829mm] AFF FOR SHOWER LOCATION, MTD 4'–6" [1372mm] AFF FOR TUB LOCATION, & MTD 3'–0" [914mm] AFF FOR TOILET LOCATION.
S = AUDIO VISUAL STATION (STAFF) MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED.
U = UTILITY CALL STATION, MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED.
CB = CODE BLUE DEVICE, MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED.

N 2 NURSE CALL STATION.
2 = NURSE'S CALL DOME LIGHT (SUFFIX INDICATES No OF LAMP) CEILING MTD
D = CORRIDOR DOME LIGHT.
I = AUXILIARY INTERSECTIONAL DOME LIGHT.

N WALL MOUNTED NURSE CALL DOME LIGHT.

RCB NURSE CALL ROOM CONTROL BOARD LOCATED ABOVE CEILING; PROVIDE 18"x18" BOX. PROVIDE (1) UNIT PER (2) RESIDENT ROOMS WITH CAT 6 HOMERUN BACK TO POE SWITCH IN LOW VOLTAGE ROOM ON FLOOR.

PS POWER SUPPLY

CM CONTROL MODULE

ACP WANDER GUARD ACCESS CONTROL PANEL; FLUSH MOUNTED

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

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Drawing Title: ELECTRICAL SYMBOLS, ABBREVIATIONS AND LEGEND	Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER	Project Number: 528-A6-13-602	Office of Construction and Facilities Management
Approved: Project Director	Location: VAMC, BATH, NEW YORK	Building Number: BLDG. #78	
	Date: 08-06-2015 / Checked: MJR / Drawn: DRR	Drawing Number: E001	Department of Veterans Affairs
		Dwg. 107 of 140	

VA FORM 08-6231

ELECTRICAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND REMOVAL OF ELECTRICAL WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN ISSUES WHEN CONCEALED WORK HAS BEEN EXPOSED. NO ADDITIONAL CLAIMS FOR WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, UNLESS, IN CERTAIN CASES, CONSIDERED JUSTIFIABLE BY THE ENGINEER.

2. NOTE THAT THE FACILITY WILL BE OPERATIONAL DURING THE COURSE OF THIS PROJECT.

   2.1. THE CONTRACTOR IS TO COORDINATE ALL OF THE DEMOLITION WORK WITH THE FACILITY PERSONNEL TO MINIMIZE DISTURBING THE OPERATING EQUIPMENT, WIRING AND SYSTEMS.

   2.2. THE CONTRACTOR SHALL PERFORM REMOVAL AND DEMOLITION WORK WITH MINIMAL INTERFERENCE WITH EXISTING SYSTEMS.

   2.3. IF NECESSARY THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER FOR THE FACILITY.

3. DEMOLITION AND REMOVAL OF WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER. THE CONTRACTOR SHALL RESTORE, PATCH, PAINT, ETC., ANY INTERIOR/EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.

4. REFER TO ELECTRICAL DEMOLITION AND RENOVATION PLANS FOR NEW EQUIPMENT LAYOUT AND EXTENT OF EQUIPMENT BEING REPLACED, RELOCATED, OR REMOVED. COORDINATE WITH ALL TRADES AS TO EXTENT OF EQUIPMENT BEING REMOVED OR RELOCATED. CLOSELY COORDINATE THE EXTENT OF DEMOLITION SCOPE OF WORK WITH ARCHITECT, ENGINEER AND/OR MECHANICAL PLANS. PATCH AND PAINT (TO MATCH SURROUNDING CONDITIONS) ALL OPENINGS CREATED BY THIS DEMOLITION.

5. EXISTING CONDITIONS, EQUIPMENT, MATERIALS & SIZES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS AND BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION IN WRITING PRIOR TO BID SUBMISSION.

6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL DEMOLITION WORK FOR THIS PROJECT WHETHER OR NOT SPECIFICALLY INDICATED ON THIS OR OTHER DEMOLITION PLANS. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE DISCONNECTION, REMOVAL AND DISPOSAL OF; LIGHTING FIXTURES, PANELBOARDS, DISCONNECT SWITCHES, RECEPTACLES, JUNCTION BOXES, WIRE, CABLE, CONDUIT, MOUNTING HARDWARE STRAPS OR CABLES, ELECTRICAL SERVICES ETC. PER THE SCOPE OF WORK FOR THIS PROJECT.

7. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES, ETC., INCLUDING ASSOCIATED WIRING, CONDUITS, COVERS, BOXES, ETC., WHERE SHOWN ON THE DEMOLITION DRAWING. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL IN THE CEILING SPACE; JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE SOURCE PANELBOARD.

8. ALL WORK MUST BE SCHEDULED AND PERFORMED AS NOT TO INTERRUPT NORMAL OPERATIONS. REMOVAL OF ITEMS THAT WILL CAUSE ANY TYPE OF TEMPORARY SHUTDOWN SHALL BE PERFORMED DURING OFF–PEAK HOURS. ALL SUCH OUTAGES SHALL BE SCHEDULED AND COORDINATED WITH OWNER FIELD REPRESENTATIVE TO ENSURE ESSENTIAL SERVICES OR AREAS CAN BE MAINTAINED.

9. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL CLOSELY FOLLOW THE DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.

10. THE SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE APPROPRIATE ARRANGEMENTS AT LEAST 10 BUSINESS DAYS PRIOR TO A SHUTDOWN.

11. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ELECTRICAL AND ARCHITECTURAL LAYOUTS IN FULL COORDINATION WITH THE ENGINEER'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE–ENERGIZED AND DISCONNECTED AT THE POWER SUPPLY SOURCE.

12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY CONNECTIONS / DISCONNECTIONS AS NEEDED TO ENSURE ADEQUATE SAFETY AND PROTECTION OF ALL PERSONNEL AND EQUIPMENT.

13. ALL ELECTRICAL PANELS SHALL BE MAINTAINED AS WORKING PANELS THROUGHOUT CONSTRUCTION AND WILL CONTINUE TO MAINTAIN CIRCUITS FOR EXISTING LIGHTING OR EQUIPMENT TO REMAIN. PROVIDE AS NECESSARY TEMPORARY LIGHTING AND ELECTRICAL FEEDS TO ANY DEVICES THAT MAY BE REQUIRED FOR UNINTERRUPTED USE. PROVIDE TEMPORARY CONNECTIONS FOR RELOCATED EQUIPMENT DURING CONSTRUCTION.

14. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ANY DEVICES AND/OR FIXTURES LOCATED OUTSIDE OF DEMOLITION WORK AREA ARE NOT AFFECTED BY REMOVAL OF WIRING AND/OR CIRCUITING. WIRING/CONDUIT SHALL BE LEFT IN A SAFE CONDITION, LABELED FOR ITS USE, AND EXTENDED AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY, INCLUDING ALL APPLICABLE CONTROLS.

15. PORTIONS OF FEEDER RUNS THAT SHALL BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING FEEDER EXTENSIONS IN ALL ASPECTS INCLUDING BUT NOT LIMITED TO CABLE TYPE, CONDUIT SIZES, CONDUCTOR AMPACITY, ETC..

16. ALL EXISTING LOW VOLTAGE WIRING FOR FIRE ALARM/SECURITY, SOUND, AND/OR TELECOMMUNICATIONS THAT IS NOT REUSED SHALL BE REMOVED IN ITS ENTIRETY BY THE RESPONSIBLE CONTRACTOR. ALL EXISTING LOW VOLTAGE WIRING FOR MECHANICAL SYSTEMS THAT ARE NOT USED SHALL BE REMOVED IN ITS ENTIRETY BY THE CONTRACTOR.

17. CONTRACTOR IS TO EXERCISE EXTREME CAUTION WHEN CUTTING SLAB TO AVOID DAMAGE TO ANY EXISTING CONDUITS, PIPING, ETC. THAT MAY BE CONCEALED IN OR BENEATH THE SLAB. ANY FLOOR SLAB AFFECTED BY THE REMOVAL OF DEVICES FED VIA UNDERGROUND CONDUIT OR WIRING, SHALL BE FIRESTOPPED AND PATCHED BY THE GENERAL CONTRACTOR AND TO MATCH SURROUNDING FLOOR.

18. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING, RELOCATING, AND/OR RECONNECTING ALL EXISTING EQUIPMENT THAT IS TO REMAIN, EVEN IF THIS EQUIPMENT IS NOT SHOWN ON PLANS OR PANEL SCHEDULES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING EXISTING CIRCUITS FROM EXISTING EQUIPMENT THAT IS REMAINING TO NEW LOCATION. CONTRACTOR SHALL MATCH EXISTING GAUGE WIRE FROM EXISTING BREAKER TO RELOCATED EQUIPMENT.

19. IN THE EVENT THAT ELECTRICAL PLANS CALL FOR EXISTING WIRING TO BE REUSED, THE ELECTRICAL CONTRACTOR SHALL SURVEY EXISTING WIRING, BOXES, ETC. TO DETERMINE IF THE EXISTING BRANCH CIRCUIT MAY BE REUSED FOR NEW EQUIPMENT (IF WIRING REMAINS IN IT'S ORIGINAL CONDUIT). ELECTRICAL CONTRACTOR SHALL DETERMINE THAT THE ENTIRE RUN OF EXISTING POWER CONDUIT AND WIRING, FROM SOURCE PANEL TO LOAD FOR WIRING TO BE REUSED, IS FEASIBLE FOR REUSE AND MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES HAVING JURISDICTION.

    IN INSTANCES WHERE EXISTING CIRCUITS ARE TO BE EXTENDED OR REUSED, ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING BRANCH CIRCUIT AND LEAVE IN A SAFE CONDITION (TAG AND LABEL ITS USE) FOR FUTURE RECONNECTION DURING RENOVATION PHASE.

20. IF SURVEY BY ELECTRICAL CONTRACTOR DEEMS THAT WIRING IS NOT FEASIBLE FOR REUSE, THEN THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ANY AND ALL WIRING DEEMED UNUSABLE, FROM LOAD TO SOURCE (INCLUDING DATA, COMMUNICATION, OR TELEPHONE WIRING). ANY CONDUITS STUBBED OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED TO MATCH SURROUNDING CONDITIONS.

21. PANELBOARD CABINETS SHALL NOT BE USED FOR OTHER PURPOSES THAN CIRCUIT BREAKER INSTALLATIONS AND DISTRIBUTION POINTS, AND SHALL NOT BE USED AS A JUNCTION OR PULLBOX.

22. ALL UNUSED OUTLET BOXES THAT ARE TO REMAIN SHALL BE PROVIDED WITH MATCHING BLANK COVERS.

23. ALL RACEWAYS WHICH ARE EXPOSED AS A RESULT OF NEW WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

24. EXISTING RACEWAYS THAT ARE NOT BEING REUSED SHALL BE REMOVED BACK TO THE NEAREST JUNCTION OR PULLBOX, AND THE OPENINGS BLANKED. ANY CONDUITS PENETRATING MASONRY SURFACES SHALL BE CUT INTO SURFACE, PATCHED, AND PAINTED TO MATCH SURROUNDINGS.

25. DISCONNECT, RELOCATE OR REMOVE ELECTRICAL INSTALLATIONS AND EQUIPMENT AS INDICATED BY PLANS AND AS REQUIRED BY CHANGES IN CONSTRUCTION. WHERE EXISTING ELECTRICAL INSTALLATIONS INTERFERE WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE NEW INSTALLATIONS SHALL BE RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS. DETERMINE AND COORDINATE ALL EQUIPMENT LOCATIONS PRIOR TO INITIAL ROUGH–IN.

26. DISCONNECT AND RELOCATE/RECONNECT ANY ELECTRICAL LINES, BRANCH CIRCUITS, DEVICES (INCLUDING FIRE ALARM DEVICES), ETC. AND REPAIR PULL BOXES THAT MAY BE DISTURBED DURING THIS RENOVATION. UNLESS NOTED OTHERWISE, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THE CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION AT NO COST TO OWNER. IF ANY EQUIPMENT TO REMAIN IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPLACED WITH NEW (WITH NO COST APPLIED TO OWNER).

27. FOR EXISTING PANELS MODIFIED AS PART OF THIS PROJECT, E.C. SHALL TEST AND KEEP ALL EXISTING WORKING CIRCUIT BREAKERS AND SHALL USE THEM FOR NEW EQUIPMENT, DEVICES, LIGHTING, AND/OR SPARES. E.C. SHALL REPLACE NON–WORKING BREAKERS WITH NEW "IN KIND" BREAKERS. PROVIDE BLANK COVERS/COVERPLATES FOR ALL EXPOSED CIRCUIT BREAKER SPACES (THOSE WITHOUT INSTALLED CIRCUIT BREAKERS; EXPOSED BUS BARS) FOR PERSONNEL PROTECTION.

28. AS DIRECTED BY THE OWNER, ALL EXISTING EQUIPMENT AND MATERIAL IN USABLE CONDITION THAT IS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, OR HANDLED AS INSTRUCTED BY THE OWNER, BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR. ALL MATERIALS DEEMED FOR REMOVAL SHALL BE RECYCLED WHENEVER POSSIBLE.

29. REMOVAL OF BRANCH CIRCUITS IN ASSOCIATED PANELS SHALL BE COORDINATED WITH THE REMOVAL OF EQUIPMENT IN SPECIFIED AREA. REFER TO RENOVATION PLANS AND ELECTRICAL PANEL SCHEDULES FOR NEW CIRCUITING ARRANGEMENT. ANY WIRING OR CIRCUITS BEING REVISED SHALL MEET MINIMUM WIRE SIZES AS INDICATED IN PANEL SCHEDULES. ELECTRICAL CONTRACTOR SHALL REMOVE WIRING/CONDUIT BACK TO SOURCE FROM UNUSED OR ABANDONED CIRCUITS, LABEL CIRCUIT BREAKER AS "SPARE", AND LEAVE IN THE "OFF" POSITION.

30. EXISTING PANELBOARD DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE REPLACED WITH NEW "TYPED" DIRECTORIES, TO ACCURATELY REFLECT THE BRANCH CIRCUIT WIRING MODIFICATIONS AND EXISTING CONDITIONS. OWNER WILL PROVIDE AN ELECTRONIC TEMPLATE FOR PANELBOARD DIRECTORIES.

31. THE CONTRACTOR SHALL ENSURE THAT ALL FLUORESCENT LAMPS REMOVED AS PART OF THE PROJECT ARE SECURED AND PROVIDED TO THE VA FOR PROPER DISPOSAL. NO FLUORESCENT LAMPS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

32. ALL EXISTING DATA CABLES NOT SPECIFICALLY CALLED OUT FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND SHALL BE COILED ABOVE THE CEILING FOR REUSE.

33. VA RESERVES THE RIGHT OF OF FIRST REFUSAL ON ALL EQUIPMENT REMOVED FROM CONSTRUCTION AREA.

GENERAL NOTES AND CONDITIONS:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE REVISED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.

   1.1. DURING PERFORMANCE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND MAINTENANCE OF WARNING SIGNS, LIGHT SIGNAL DEVICES, GUARD LIGHTS, BARRICADES, GUARD RAILS, FENCES AND OTHER DEVICES, APPROPRIATELY LOCATED ON AND AROUND THE JOB SITE WHICH GIVE PROPER AND UNDERSTANDABLE WARNING TO PERSONS WITH REGARD TO HAZARDOUS CONDITIONS, EQUIPMENT AND OPERATIONS BEING PERFORMED IN CONJUNCTION WITH THE WORK.

2. THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

   BUILDING: NFPA: CURRENT EDITION

   ELECTRICAL: NATIONAL ELECTRIC CODE: NFPA 70 – CURRENT EDITION

   VA DESIGN GUIDES: CURRENT EDITION

3. ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING CODES (ABOVE), INDUSTRY STANDARDS, AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.

4. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED. THIS SHALL INCLUDE CUTTING, PATCHING AND RESTORATION OF EXISTING SURFACES DAMAGED DURING THE CONSTRUCTION. CONTRACTOR SHALL ALSO PROVIDE ALL EQUIPMENT SHOWN OR SPECIFIED OR AN APPROVED EQUIVALENT. SUBSTITUTED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED UNTIL GIVEN WRITTEN APPROVAL BY THE OWNER.

5. EACH TRADE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY POWER SOURCES AND ANY REQUIRED UTILITIES FOR ANY TEMPORARY MECHANICAL, PLUMBING, AND/OR ELECTRICAL EQUIPMENT OR SYSTEMS (REQUIRED BY THEIR INDIVIDUAL TRADES SCOPE OF WORK) DURING THE COURSE OF CONSTRUCTION AND PHASING/SEQUENCING OF WORK. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND ROUTING OF: TEMPORARY FEEDERS, CONDUIT, TRANSFORMERS, ON–SITE GENERATOR PACKAGES, OVERCURRENT PROTECTION DEVICES, DISCONNECTS, CONNECTIONS AND DISCONNECTION OF EQUIPMENT, ETC. ALL ELECTRICAL WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED FOR NONCOMPLIANCE WITH THESE CONTRACT DOCUMENTS. CONTRACTOR WILL NOT BE ALLOWED CHANGE ORDERS FOR PROBLEMS ARISING FROM NEGLECT OF PROVISIONS INCLUDED IN THESE CONDITIONS.

7. MAINTAIN ORDERLY HOUSEKEEPING DURING CONSTRUCTION, AND UPON SUBSTANTIAL COMPLETION PERFORM FINAL CLEANUP. REMOVE CONSTRUCTION RUBBISH, SCAFFOLDING, EQUIPMENT, TEMPORARY PROTECTION, TEMPORARY FIELD STRUCTURES, AND OTHER MATERIALS OR EQUIPMENT THAT WAS REQUIRED IN CONNECTION WITH THE CONSTRUCTION, BUT NOT A PERMANENT PART THEREOF.

8. THOSE PERFORMING WORK AS A CONTRACTOR MUST EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE CONTRACTOR IN WRITING, OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. COMMENCEMENT OF WORK BY A TRADE ON A SURFACE OR CONSTRUCTION SHALL IMPLY ACCEPTANCE OF SUCH SURFACE OR CONSTRUCTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

9. THE CONTRACTOR SHALL REVIEW CONTRACT DOCUMENTS FOR CONFLICTS. WHERE CONFLICTS EXIST WITHIN THE DRAWINGS, WORK SHALL NOT PROCEED UNTIL THE ENGINEER HAS BEEN NOTIFIED AND GIVEN DIRECTION.

10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS DATA SHEETS ON ALL EQUIPMENT AND MATERIALS SPECIFIED ON DRAWINGS FOR APPROVAL BY OWNER OR AGENT FOR THE OWNER. THESE DRAWINGS OR SHEETS SHALL CONTAIN ALL NECESSARY DATA, I.E., MANUFACTURER, CATALOG NUMBER, SIZE, DIMENSIONS, CAPACITY, WIRING DETAILS AND ALL OTHER ENGINEERING DATA AND DETAILS NECESSARY FOR COMPLETE CLARITY AND INSTALLATION.

11. THE CONTRACTOR SHALL KEEP ONE SET OF THE LATEST ISSUE OF DRAWINGS WHICH SHALL REFLECT THE ACTUAL INSTALLED CONDITIONS AND CONNECTIONS OF ALL EQUIPMENT AND DEVICES. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL MAINTENANCE INFORMATION AND INSTRUCTIONS RECEIVED WITH EQUIPMENT AND SYSTEMS. ALL "AS–BUILT" DRAWINGS AND MISCELLANEOUS INFORMATION SHALL BE GIVEN TO THE OWNER AND ENGINEER AT COMPLETION OF WORK. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND LABOR TO BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE TIME OF OWNER ACCEPTANCE. ANY DEFECTS OCCURRING DURING THIS PERIOD SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

12. CONTRACTOR IS TO PROVIDE ALL REQUIRED SCAFFOLDING, LADDERS, RIGGING, HOISTING AND ALL OTHER EQUIPMENT REQUIRED FOR THE INSTALLATION OF THEIR WORK.

13. ESTABLISH PASSAGE CLEARANCES REQUIRED TO DELIVER, INSTALL AND ERECT ALL REQUIRE EQUIPMENT. IF STRUCTURES, EQUIPMENT AND SYSTEMS MUST BE ALTERED TO PROVIDE PASSAGE OF EQUIPMENT, THE CONTRACTOR SHALL RESTORE STRUCTURES, EQUIPMENT AND SYSTEMS TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE; INCLUDING REMOVING AND REPLACEMENT OF ALL CEILING AS REQUIRED TO COMPLETE THE WORK.

14. PRIOR TO ANY WORK COMMENCING AN AN AREA, THE CONTRACTOR SHALL NOTIFY THE COR OF HIS INTENTION TO WORK IN THE AREA AND SHALL SCHEDULE A WALKTHROUGH WITH THE COR TO DETERMINE EXISTING CONDITIONS. AFTER THE WORK, THE EXISTING WORK AREAS SHALL BE RETURNED TO THEIR ORIGINAL STATE BEFORE FINAL APPROVAL SHALL BE GIVEN.

15. WHERE INCIDENTAL WORK IS REQUIRED TO ACCOMPLISH WORK SHOWN ON THE DRAWINGS, THIS WORK IS IMPLIED AND SHALL BE INCLUDED IN THE BID.

16. THE CONTRACTOR SHALL RECEIVE ALL DELIVERIES OF MATERIALS, TOOLS, EQUIPMENT AND OTHER GOODS OFF STATION AND BRING TO THE PROJECT SITE. THE VA WILL NOT ACCEPT PROJECT DELIVERIES.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND ALL OTHER DISCIPLINES INVOLVED IN THIS PROJECT.

   1.1. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS AND APPLICABLE SHOP DRAWINGS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT.

   1.2. VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM DEVICES, VOICE/DATA DEVICES AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH–IN. IN CENTERING OUTLETS AND LOCATION BOXES, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

   1.3. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECTURAL AND/OR ENGINEERING PLANS AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

2. THE CONDUITS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, THEY SHOW THE GENERAL ARRANGEMENT AND SIZE OF THE CONDUITS. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR INTERFERENCE THAT MAY BE ENCOUNTERED. CONTRACTOR IS RESPONSIBLE FOR ROUTING ALL CONDUIT IN THE MOST EFFICIENT MANNER IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

3. ALL CONTRACTOR SUPPLIED MATERIALS SHALL BE NEW AND UL APPROVED (OR APPROVED BY ANOTHER NATIONALLY RECOGNIZED ORGANIZATION).

4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS NOT PERMITTED.

5. UNLESS OTHERWISE STATED, ALL ABOVE GROUND WIRING SHALL BE IN CONDUIT, 3/4 INCH MINIMUM SIZE FOR ELECTRIC SERVICES. ALL CONDUIT BENDS SHALL BE OF THE LONG RADIUS TYPE. ALL OUTDOOR WIRING SHALL BE IN CONDUIT, 3/4 INCH MINIMUM SIZE. ALL MOTORS AND TRANSFORMERS SHALL HAVE FLEXIBLE CONNECTIONS TO MINIMIZE VIBRATION. 1/2 INCH CONDUIT IS ACCEPTABLE FOR SWITCH LEGS AND TIGHT WALL SITUATIONS. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6. ALL WIRING SHALL BE RUN CONCEALED IN CONDUIT UNLESS SPECIFIED OTHERWISE.

7. CONTRACTOR SHALL USE TRAPEZE TO SUPPORT MULTIPLE CONDUITS FROM BUILDING STEEL

8. SECURE ALL SUPPORTS TO BUILDING STRUCTURE BY STEEL FOR VERTICAL SUPPORT AND BY MEANS OF TOGGLE BOLTS ON HOLLOW MASONRY UNITS, EXPANSION SHIELDS IN CONCRETE OR BRICK. MACHINE SCREWS ON METAL SURFACE, AND WOOD SCREWS ON WOOD CONSTRUCTION. NAILS, RAWL OR WOOD PLUGS NOT PERMITTED. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUITS NOT MORE THAN 10 FT. APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

9. ALL CONDUIT INSTALLATIONS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION/DEFLECTION TYPE FITTINGS AS REQUIRED. NOTE: FOR THE EXACT LOCATIONS OF EXPANSION JOINTS, SEE OWNER FOR EXISTING STRUCTURAL DRAWINGS.

10. ALL UNDERGROUND CONDUITS SHALL BE SEALED TO PREVENT THE ENTRY OF WATER OR GASES.

11. PASS RACEWAYS OVER WATER, STEAM, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 IN. OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 IN. FROM PIPE COVER.

12. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10 FT IN WHICH WIRING IS NOT INSTALLED.

13. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.

14. ELECTRICAL CONTRACTOR SHALL CONDUCT A NEW SURVEY OF THE WIRELESS SYSTEM AFTER ALL WAPS ARE INSTALLED FOR REVIEW. ANY DAMAGE TO RELOCATED WAPS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REGARDING ELECTRODE, GROUNDING AND BONDING REQUIREMENTS FOR SERVICE, EQUIPMENT AND ENCLOSURES. ALL EQUIPMENT SHALL BE PROVIDED WITH A SEPARATE GROUNDING CONDUCTOR.

16. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

17. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. IN COMMON BOXES, PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.

18. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.

19. WIRE COLOR CODING: PER CODE. WHERE COLOR–CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

20. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F.

21. PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.

22. ALL SWITCHES SHALL BE MOUNTED AT 4'–0" ABOVE THE TOP OF FINISHED FLOOR, UNLESS OTHERWISE NOTED. ALL RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE THE TOP OF FINISHED FLOOR, UNLESS OTHERWISE NOTED.

23. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES.

24. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

25. JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE CONDUITS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.

26. SUPPORT JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.

27. ELECTRICAL CONTRACTOR SHALL COORDINATE ADDITIONAL CONTROL CIRCUITING REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH–IN. PROVIDE ADDITIONAL 120V/1ø CONTROL CIRCUITS (VIA 2#12+1#12G. IN 3/4"C.) FROM NEAREST, SPARE 20A/1P CIRCUIT BREAKER(S) IN 208V ELECTRICAL PANEL HAVING SUFFICIENT SPARE AMPERAGE CAPACITY. PROVIDE NEW CIRCUIT BREAKER(S) AS REQUIRED. PROVIDE ADDITIONAL CONNECTIONS TO LOW VOLTAGE TRANSFORMERS (PROVIDED BY CONTROLS CONTRACTOR).

28. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT AND/OR ENGINEER PRIOR TO INSTALLATION.

29. FIRESTOP SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED WALL. PANELBOARDS, DISCONNECTS, AUTOMATIC TRANSFER SWITCHES, ETC., SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE, TO THE TOP OF THE FINISHED FLOOR SHALL NOT EXCEED 6'–6" (MAX.).

30. ALL PANELS SHALL BE BALANCED AS EVENLY AS POSSIBLE ACROSS PHASES. REARRANGE CIRCUITS AS REQUIRED. ALL PANELS SHALL HAVE PERMANENT DIRECTORIES. CIRCUIT CHANGES SHALL BE REFLECTED ON "AS BUILT" DRAWINGS.

31. ALL SURFACE MOUNTED PANELS AND PANELBOARDS INSTALLED ON THE INSIDE FACE OF EXTERIOR WALLS, ABOVE GRADE OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE FACE OF THE WALL.

GENERAL ELECTRICAL NOTES (CONT.):

32. ALL NEW ELECTRICAL PANELS SHALL BE LOCKABLE. PROVIDE OWNER WITH TWO (2) KEYS PER PANEL.

33. EXACT LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.

34. ALL DEVICES SHALL BE ADEQUATELY IDENTIFIED WITH PERMANENT LABELS OR TAGS. WIRING SHALL BE IDENTIFIED AS TO PHASING AND CONDUCTOR IDENTIFICATION.

35. CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY BY THE NATIONAL ELECTRIC CODE.

36. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

37. MULTI–GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

38. ALL TEMPORARY WIRING, LIGHTING AND POWER CIRCUITS AND DEVICES SHALL BE INSTALLED TO MEET THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL, STATE AND FEDERAL REQUIREMENTS FOR SUCH TEMPORARY INSTALLATION.

39. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT RECEPTACLES USED FOR HAND TOOLS AND OTHER MISCELLANEOUS EQUIPMENT SHALL BE INSTALLED WITH GROUND FAULT INTERRUPTER OR OTHER APPROVED AND RECOGNIZED INTERRUPTING SENSORS.

40. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS. OPENINGS SHALL ALSO BE SEALED TO PREVENT WATER SEEPAGE WHERE APPLICABLE. ALL OPENINGS SHALL BE COORDINATED WITH OTHER CRAFTS TO PREVENT INTERFERENCE AND OBSTRUCTION. PENETRATIONS THROUGH FIRE WALLS MUST BE MADE BY AN APPROVED THROUGH PENETRATION FIRESTOP SYSTEM.

41. THE COMPLETE INSTALLATION SHALL BE TESTED AT COMPLETION OF WORK, TO BE FREE OF GROUNDS AND SHORT CIRCUITS CONDITIONS. ALL INTERLOCK CIRCUITS SHALL BE TESTED TO VERIFY CORRECT OPERATION OF EACH DEVICE. ALL ROTATING EQUIPMENT SHALL BE JOGGED TO VERIFY CORRECT ROTATION BEFORE PERMANENTLY ENERGIZING.

42. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK AND SHUTDOWNS OF EQUIPMENT WITH FACILITY.

43. EXCAVATION FOR UNDERSLAB OR UNDERGROUND INSTALLATION OF CONDUITS SHALL BE APPROACHED WITH EXTREME CAUTION SO AS NOT TO DAMAGE EXISTING UNDERGROUND PIPING, WIRING AND CONDUITS.

44. ELECTRICAL CONTRACTOR SHALL PROVIDE CONSTRUCTION MANAGER/GENERAL CONTRACTOR A SURFACE PENETRATING RADAR SURVEY FOR THE PURPOSE OF LOCATING ALL UNDERGROUND (OR IN–SLAB) CONDUITS, PIPING, UTILITIES, STRUCTURAL MEMBERS, ETC. IN ALL AREAS WHERE SLAB CUTTING MAY OCCUR (FOR THE PURPOSES OF ELECTRICAL WORK REQUIRED). SURVEY MUST BE COMPLETED TWO WEEKS PRIOR TO CUTTING OF ANY SLAB. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY (AND ALL ASSOCIATED COSTS) OF REPAIRING AND/OR REPLACING ANY SYSTEMS DAMAGED BY THE SLAB CUTTING PROCEDURES, WHEN PREVENTATIVE MEASURES WERE NOT CONSIDERED OR UTILIZED. COST FOR SURVEY(S) SHALL BE SUBMITTED AS A SEPARATE LINE ITEM PRICE (WHEN APPLICABLE).

45. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, MOCP, REQUIRED FOR ALL EQUIPMENT PROVIDED BY OTHER CONTRACTORS PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS, CONDUIT, ETC. VERIFY RATINGS WITH FINAL, APPROVED CONTRACTOR EQUIPMENT SUBMITTALS AND EQUIPMENT NAMEPLATES DIRECTLY WITH THE PROVIDING CONTRACTOR.

46. UNLESS NOTED OTHERWISE WITHIN THE PROJECT CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, ALL NEW ELECTRICAL DEVICES INDICATED ON THE ELECTRICAL PLANS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR (EXAMPLE: DISCONNECT SWITCHES, CIRCUIT BREAKERS, WIRING, CONDUIT, ETC.). VARIABLE FREQUENCY DRIVES, VFD CONTROL PANELS, DISCONNECT SWITCHES, COMBINATION MOTOR STARTER/DISCONNECTS AND ASSOCIATED COMPONENTS FOR NEW EQUIPMENT PROVIDED BY OTHERS SHALL BE PROVIDED BY THE CORRESPONDING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR (WHEN NOT FACTORY INSTALLED).

47. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THE ELECTRICAL PLANS AND SPECIFICATIONS, AS WELL AS ALL RELATED PROJECT PLANS AND SPECIFICATIONS FROM OTHER DISCIPLINES, TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE AND COORDINATED RESPONSIBILITIES. CONFLICT OF INTENDED RESPONSIBILITIES SHALL BE BROUGHT TO ENGINEERS ATTENTION, PRIOR TO SUBMISSION OF BID.

48. DURING THE COURSE OF CONSTRUCTION, COORDINATION AND FINAL TURNOVER, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO WORK CLOSELY WITH ALL CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

49. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH COULD REQUIRE ADDITIONAL ELECTRICAL WORK, (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS.

50. CONTRACTOR SHALL COORDINATE ALL TEMPORARY ELECTRICAL POWER WITH UTILITY, AS REQUIRED, DURING DEMOLITION AND CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR THE USAGE AND PAYMENT THEREOF. CONTRACTOR SHALL COORDINATE ACTIVATION OF NEW PERMANENT POWER FOR VA.

51. THE CONTRACTOR SHALL LABEL EACH INSTALLED TELE/DATA CABLE WITH A NUMBER THAT IS UNIQUE TO THAT CABLE. EACH TELE/DATA JACK SHALL HAVE A TEMPORARY LABEL AFFIXED TO IT WITH THE DATA CLOSET NUMBER AND CABLE NUMBER ON THE LABEL. THE CONTRACTOR SHALL ALSO PROVIDE THE VA WITH A SPREADSHEET LISTING EACH CABLE INSTALLED AS PART OF THE PROJECT. THIS SPREADSHEET SHALL LIST THE FOLLOWING FOR EACH CABLE INSTALLED: BUILDING NUMBER, DATA CLOSET NUMBER, CABLE NUMBER, ROOM NUMBER, AND TEST LENGTH. CABLES SHALL BE PUNCH DOWN USING 568A CONFIGURATION (TYPICAL).

BID DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

GARDNER PLUS ARCHITECTS, PLLC
40 Wildbriar Road, Rochester NY 14623
585-321-1210 www.gardnerplus.com

KOFFEL ASSOCIATES Fire Protection ENGINEERS®
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410-750-2246 (BALT) 410-750-2588 (FAX)
KA PROJECT NUMBER: M023-03

pvl design associates
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Phone: (540) 450-8702
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ARCHITECT/ENGINEERS:

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M.E.P. & Structural Engineering
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CHERRY HILL, NEW JERSEY 08034
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FAX: (856)429-5002

SDVOSB — Service Disabled Veteran Owned Small Business — CVE

Drawing Title: ELECTRICAL DEMOLITION, GENERAL NOTES AND CONDITIONS

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: E002

Dwg. 108 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

P:\0499_DVA\3-0499-0037 Bath NY CLC2 & 3\2_Drawings\1_Cad\1_Current Submittal Phase\7_Electrical\E002.dwg 8-06-15 10:37:59 AM vrizzo

PLAN NORTH

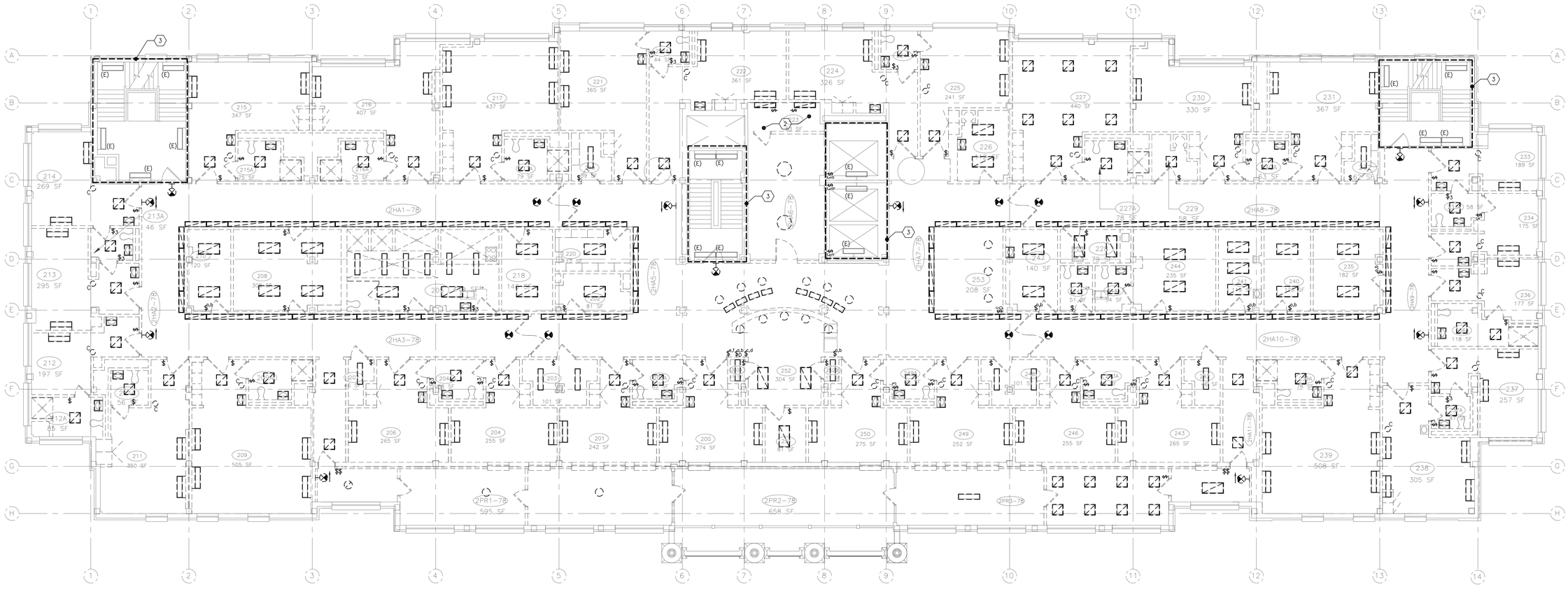
ACTUAL NORTH

GENERAL SHEET NOTES:

1. SEE DWGS. E001 AND E002 FOR SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS.
2. ALL DEVICES SHOWN ON THE DRAWINGS SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. IN ADDITION, ALL LIGHT FIXTURES AND LIGHTING CONTROLS NOT SPECIFICALLY SHOWN SHALL ALSO BE DEMOLISHED, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

1. NOT USED.
2. LOW VOLTAGE CABLE PASSING THROUGH THIS ROOM AND SERVING EXISTING THIRD FLOOR IT ROOM ABOVE SHALL BE REROUTED AS PART OF THIS PROJECT. DEMOLITION OF THIS ROOM SHALL NOT OCCUR UNTIL ALL WIRES PASSING THROUGH HAVE BEEN REROUTED.
3. ALL DEVICES IN THIS AREA SHALL BE EXISTING TO REMAIN. IF DEVICES ARE SERVED BY BRANCH CIRCUITING ON THIS FLOOR, PROVIDE TEMPORARY BRANCH CIRCUITS THROUGHOUT CONSTRUCTION AND TIE BACK TO NEW PANELS WHEN THEY ARE INSTALLED AND POWERED UP.



1 ELECTRICAL SECOND FLOOR LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS

FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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SDVOSB CVE

Drawing Title: ELECTRICAL SECOND FLOOR LIGHTING DEMOLITION PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: ED102L

Dwg. 109 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

PLAN NORTH

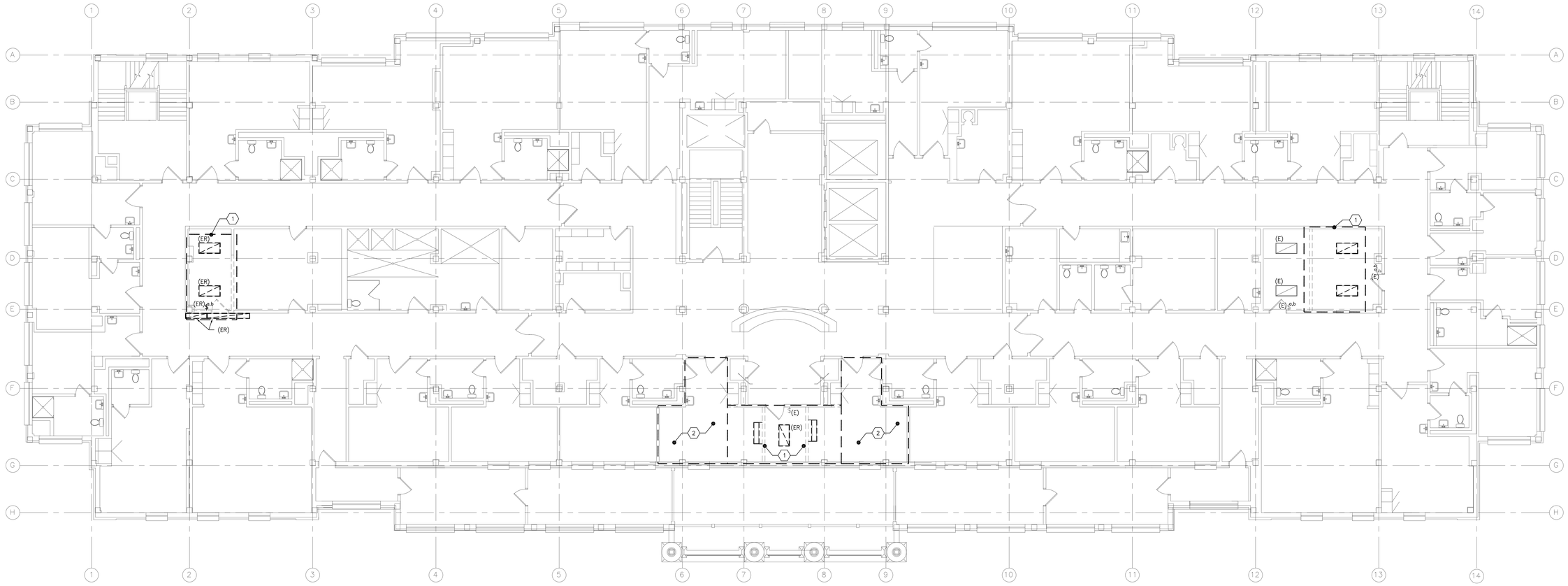
ACTUAL NORTH

GENERAL SHEET NOTES:

1. SEE DWGS. E001 AND E002 FOR SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS.

SHEET KEYNOTES:

1. ALL DEVICES SHOWN WITHIN THIS SCOPE OF WORK AREA SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. IN ADDITION, ALL LIGHT FIXTURES AND LIGHTING CONTROLS NOT SPECIFICALLY SHOWN SHALL ALSO BE DEMOLISHED, UNLESS OTHERWISE NOTED.
2. REMOVE, CLEAN, RELAMP, STORE, AND REINSTALL ALL CEILING MOUNTED LIGHT FIXTURES IN THIS AREA AFTER NEW CEILING IS INSTALLED. RECONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROL DEVICE.



1 ELECTRICAL THIRD FLOOR LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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SDVOSB

Drawing Title: ELECTRICAL THIRD FLOOR LIGHTING DEMOLITION PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: ED103L

Dwg. 110 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

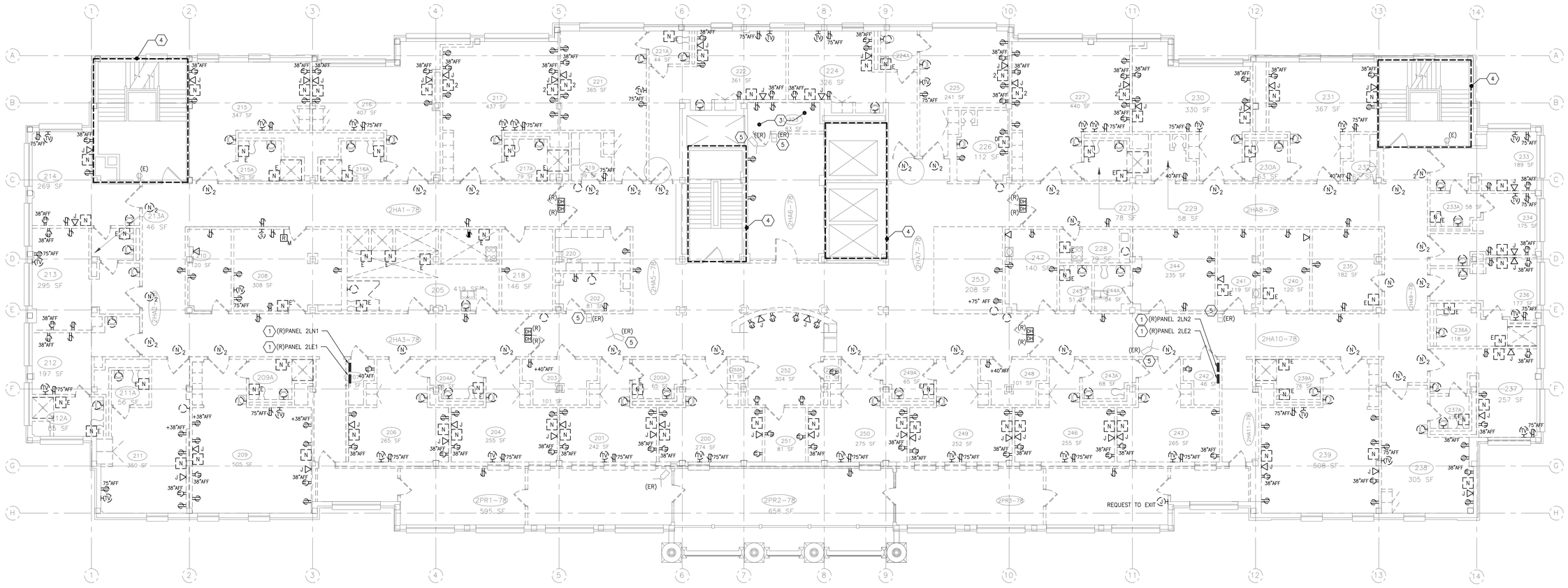
PLAN NORTH
ACTUAL NORTH

GENERAL SHEET NOTES:

1. SEE DWGS. E001 AND E002 FOR SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS.
2. ALL DEVICES SHOWN ON THE DRAWINGS SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. IN ADDITION, ALL POWER AND SYSTEMS DEVICES NOT SPECIFICALLY SHOWN SHALL ALSO BE DEMOLISHED, UNLESS OTHERWISE NOTED.
3. DURING DEMOLITION, EXISTING WIFI WIRELESS ACCESS POINTS FOR BCMA ROLLING CART SYSTEM SHALL BE REMOVED, CLEANED, AND STORED FOR REUSE. ANY DAMAGE TO RELOCATED WAPS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. PANEL FEEDERS TO THIRD FLOOR ELECTRICAL PANEL SHALL BE REROUTED DURING DEMOLITION OF SECOND FLOOR. SEE DRAWING ED601, EP102, AND E601 FOR FURTHER INFORMATION.
5. ALL NURSE CALL DEVICES AND PARTS REMOVED FROM SCOPE OF WORK AREA DURING DEMOLITION SHALL BE REMITTED TO THE VA MAINTENANCE SHOP.

SHEET KEYNOTES:

1. DEMOLISH PANEL AND FEEDER BACK TO FIRST FLOOR SOURCE PANEL. SEE ED601 FOR MORE DETAIL.
2. NOT USED
3. LOW VOLTAGE CABLE PASSING THROUGH THIS ROOM AND SERVING EXISTING THIRD FLOOR IT ROOM ABOVE SHALL BE REROUTED AS PART OF THIS PROJECT. DEMOLITION OF THIS ROOM SHALL NOT OCCUR UNTIL ALL WIRES PASSING THROUGH HAVE BEEN REROUTED. SEE DRAWING E502 FOR ROUTING INFORMATION.
4. ALL DEVICES IN THIS AREA SHALL BE EXISTING TO REMAIN. IF DEVICES ARE SERVED BY BRANCH CIRCUITING ON THIS FLOOR, PROVIDE TEMPORARY BRANCH CIRCUITS THROUGHOUT CONSTRUCTION AND TIE BACK TO NEW PANELS WHEN THEY ARE INSTALLED AND POWERED UP.
5. REMOVE DEVICE. CLEAN AND STORE FOR REUSE.



1 ELECTRICAL SECOND FLOOR POWER AND SYSTEMS DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

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SDVOSB CVE

Drawing Title: ELECTRICAL SECOND FLOOR POWER AND SYSTEMS DEMOLITION PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: ED102P

Dwg. 111 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

PLAN NORTH

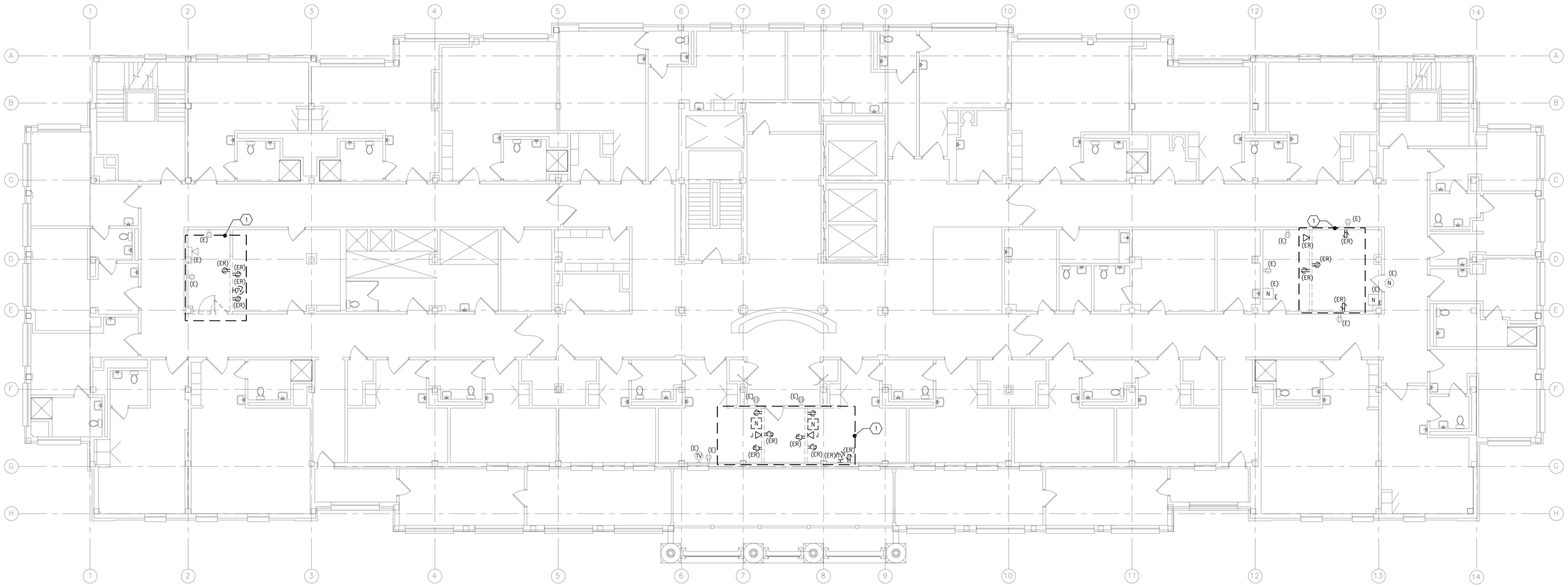
ACTUAL NORTH

GENERAL SHEET NOTES:

1. SEE DWGS. E001 AND E002 FOR SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS.

SHEET KEYNOTES:

1. ALL DEVICES SHOWN WITHIN THIS SCOPE OF WORK AREA SHALL BE DEMOLISHED, UNLESS OTHERWISE NOTED. IN ADDITION, ALL POWER AND SYSTEMS DEVICES NOT SPECIFICALLY SHOWN SHALL ALSO BE DEMOLISHED, UNLESS OTHERWISE NOTED.



1 ELECTRICAL THIRD FLOOR POWER AND SYSTEMS DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS

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SDVOSB CVE

Drawing Title: ELECTRICAL THIRD FLOOR POWER AND SYSTEMS DEMOLITION PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: ED103P

Dwg. 112 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

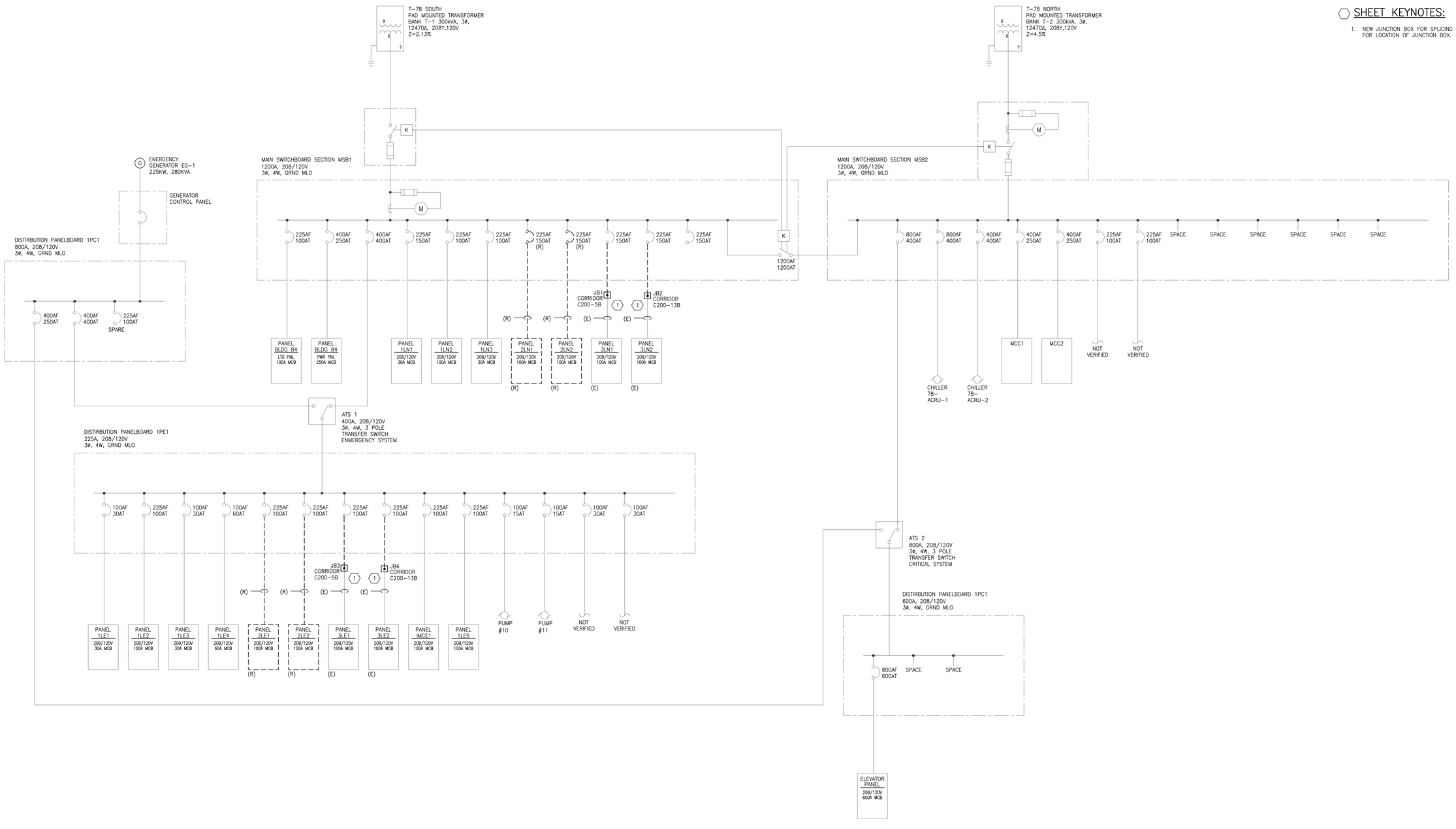
VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DRAWING E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. ALL WORK SHOWN ON THIS DRAWINGS SHALL BE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

1. NEW JUNCTION BOX FOR SPLICING OF FEEDER. SEE DRAWING EP102 FOR LOCATION OF JUNCTION BOX.



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SDVOSB CVE

Drawing Title: ELECTRICAL DEMOLITION SINGLE LINE DIAGRAM

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

Drawing Number: ED601

Dwg. 113 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

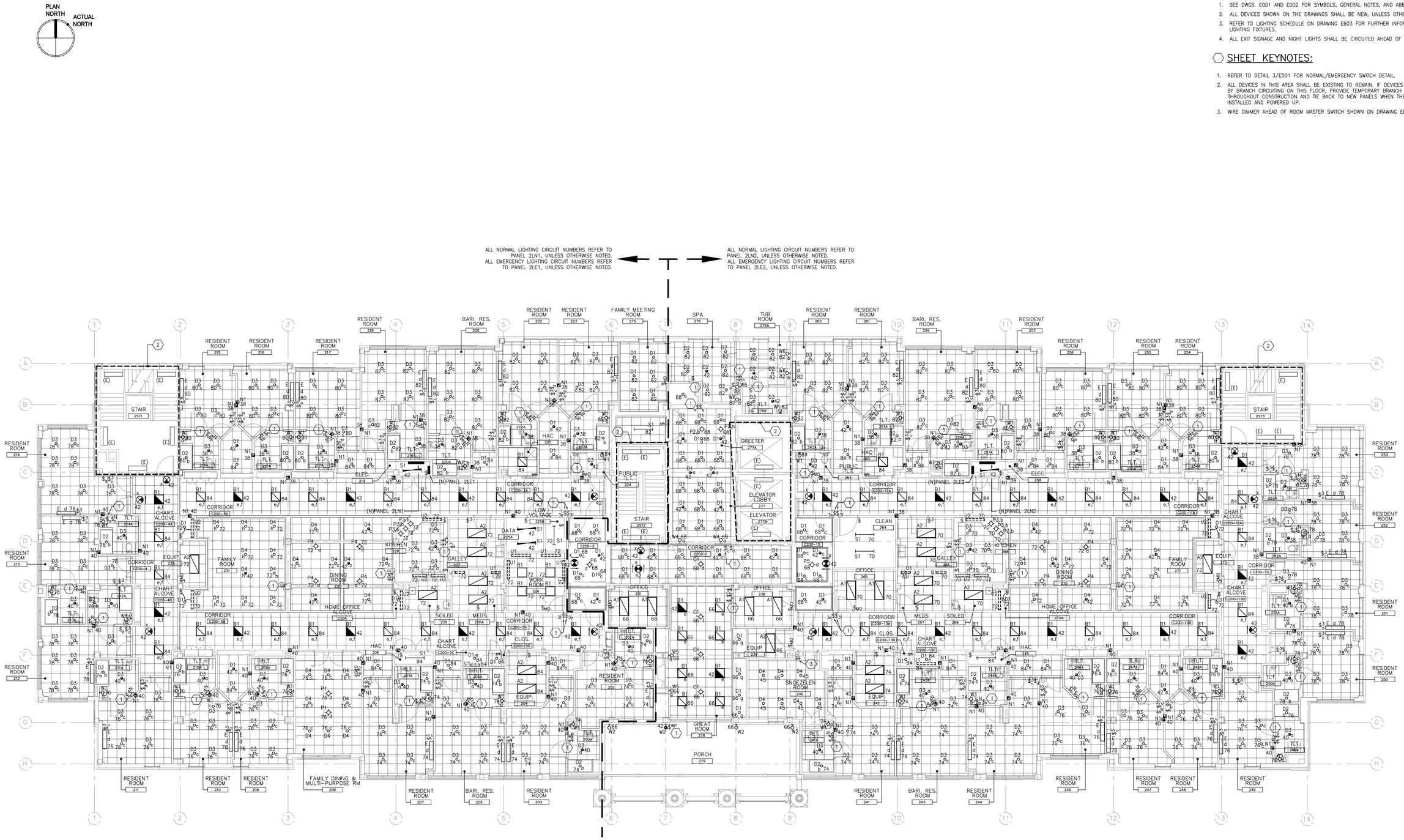
VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DWGS. E001 AND E002 FOR SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS.
2. ALL DEVICES SHOWN ON THE DRAWINGS SHALL BE NEW, UNLESS OTHERWISE NOTED.
3. REFER TO LIGHTING SCHEDULE ON DRAWING E603 FOR FURTHER INFORMATION ON LIGHTING FIXTURES.
4. ALL EXIT SIGNAGE AND NIGHT LIGHTS SHALL BE CIRCUITED AHEAD OF ANY SWITCHING.

SHEET KEYNOTES:

1. REFER TO DETAIL 3/E501 FOR NORMAL/EMERGENCY SWITCH DETAIL.
2. ALL DEVICES IN THIS AREA SHALL BE EXISTING TO REMAIN. IF DEVICES ARE SERVED BY BRANCH CIRCUITING ON THIS FLOOR, PROVIDE TEMPORARY BRANCH CIRCUITS THROUGHOUT CONSTRUCTION AND TIE BACK TO NEW PANELS WHEN THEY ARE INSTALLED AND POWERED UP.
3. WIRE DIMMER AHEAD OF ROOM MASTER SWITCH SHOWN ON DRAWING EP102.



1 ELECTRICAL SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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SDVOSB CERTIFIED VETERAN OWNED SMALL BUSINESS CVE

Drawing Title: ELECTRICAL SECOND FLOOR LIGHTING PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: EL102

Dwg. 114 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

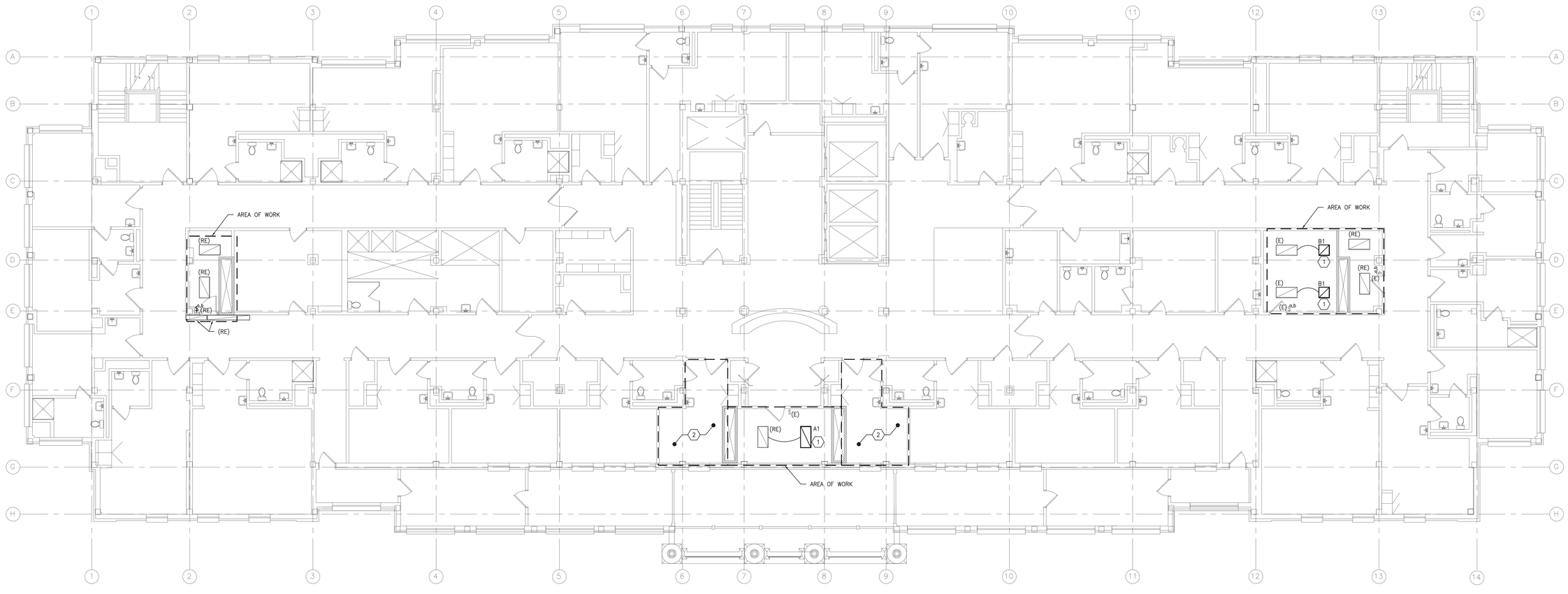
VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DWGS. E001 AND E002 FOR SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS.
2. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E603 FOR FURTHER INFORMATION ON LIGHTING FIXTURES.

SHEET KEYNOTES:

1. CONNECT FIXTURE TO EXISTING CIRCUIT AND MATCH EXISTING SWITCHING SCHEME.
2. REINSTALL ALL CEILING MOUNTED LIGHT FIXTURES IN THIS AREA, THAT WERE REMOVED DURING DEMOLITION, AFTER NEW CEILING IS INSTALLED. RECONNECT TO EXISTING CIRCUIT AND LIGHTING CONTROL DEVICE.



1 ELECTRICAL THIRD FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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SDVOSB CVE

Drawing Title: ELECTRICAL THIRD FLOOR LIGHTING PLAN

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

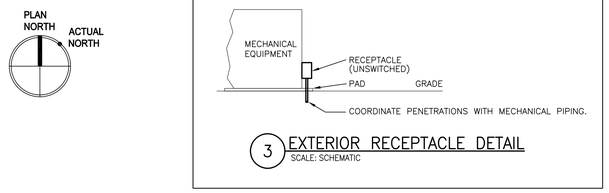
Drawing Number: EL103

Dwg. 115 of 140

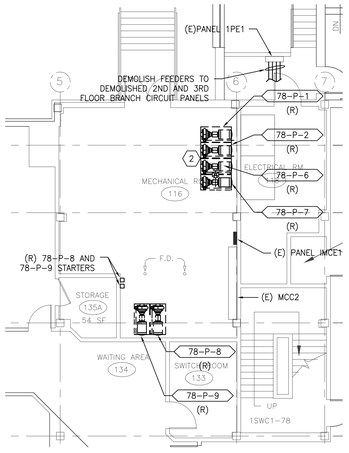
Office of Construction and Facilities Management

Department of Veterans Affairs

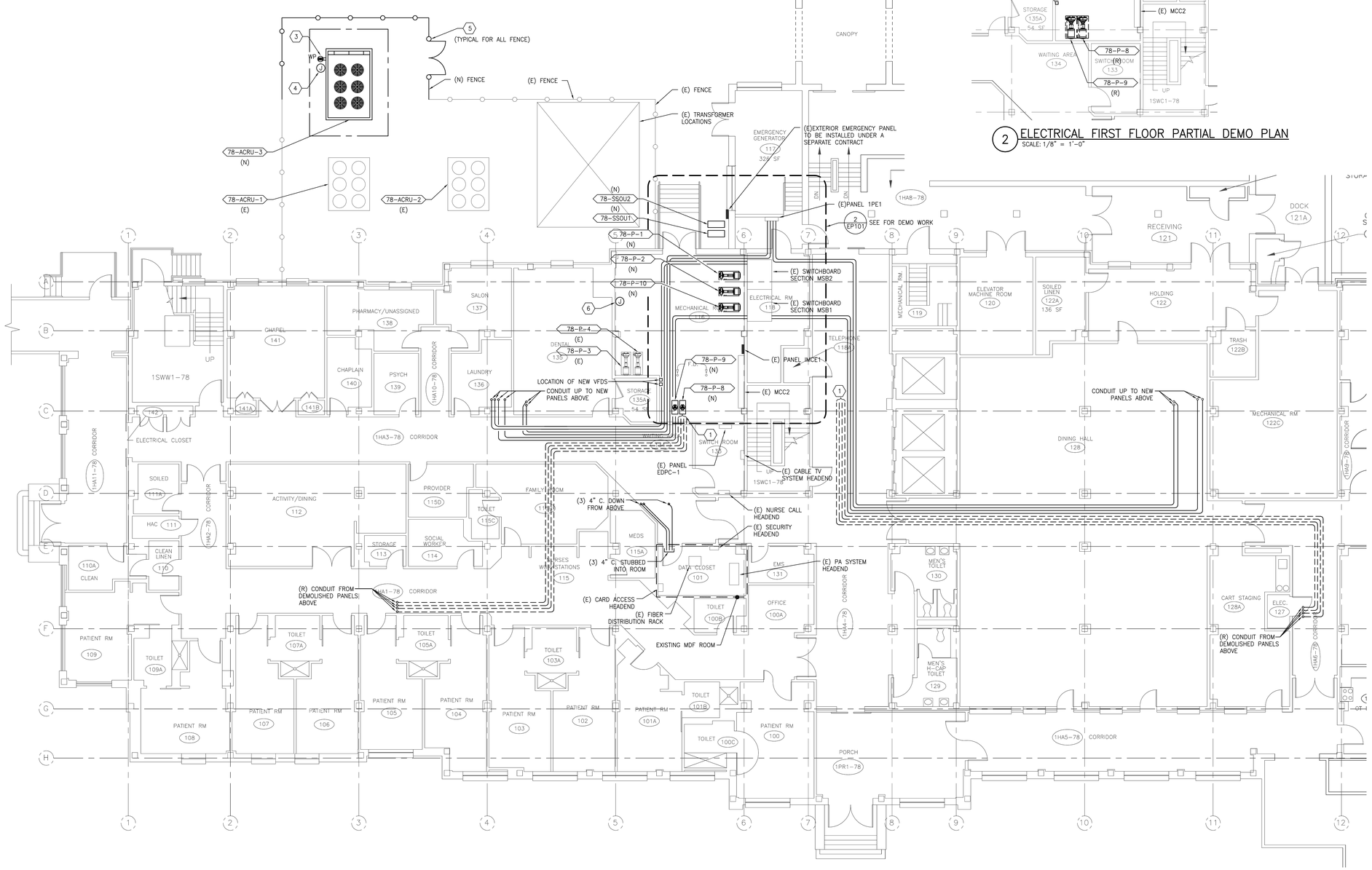
VA FORM 08-6231



3 EXTERIOR RECEPTACLE DETAIL
SCALE: SCHEMATIC



2 ELECTRICAL FIRST FLOOR PARTIAL DEMO PLAN
SCALE: 1/8" = 1'-0"



1 ELECTRICAL FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. CONDUIT ROUTING SHOWN IS DIAGRAMMATICAL ONLY AND INTENDED TO SHOWN POTENTIAL CONDUIT ROUTING RUN. CONTRACTOR SHALL VERIFY ROUTING IN FIELD WITH VA.
3. COORDINATE ALL FIRST FLOOR CEILING WORK WITH VA.
4. SEE ELECTRICAL CONNECTION SCHEDULE ON DRAWING E603 FOR FURTHER INFORMATION ON ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT.

SHEET KEYNOTES:

1. CONDUITS CONTINUE TO SWITCHBOARD MSB1 AND PANEL 1PE1. SEE DRAWING ED601 FOR FURTHER INFORMATION. REMOVE ENTIRE CONDUIT LENGTH. CONDUIT SHOWN ARE DIAGRAMMATIC. VERIFY LOCATION OF CONDUIT RUN IN FIELD.
2. ELECTRICAL CONTRACTOR SHALL DEMOLISH EXISTING PUMP 78-P-1, 78-P-2, 78-P-6, AND 78-P-7 THAT ARE CURRENTLY INSTALLED IN THE NEW LOCATION OF 78-P-1, 78-P-2, AND 78-P-10 IN THEIR ENTIRETY, INCLUDING FEEDER BACK TO SOURCE.
3. CIRCUIT GFCI AND HEAT TRACE TO NEW 20-AMP, 1-POLE GFCI CIRCUIT BREAKER IN PANEL EDPC-1. MATCH EXISTING CIRCUIT BREAKER'S TYPE AND AIC RATING. REFER TO DETAIL 3/THIS SHEET FOR FURTHER INFORMATION ON GFCI MOUNTING.
4. REFER TO DETAIL 9/E501 FOR FURTHER INFORMATION ON HEAT TRACING EQUIPMENT.
5. EXTEND EXISTING FENCE GROUNDING WIRE AND CONNECT NEW FENCE GROUNDING WIRE. REFER TO DETAIL 10/E501 FOR INFORMATION REGARDING NEW FENCE GROUNDING WIRE.
6. PROVIDE JUNCTION BOX FOR MECHANICAL BMS SYSTEM. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE DEDICATED BRANCH CIRCUIT TO FINAL LOCATION OF JUNCTION BOX FROM NEW 20-AMP, 1-POLE CIRCUIT BREAKER IN 1ST FLOOR EMERGENCY PANEL EDPC-1. MATCH TYPE AND AIC RATING OF EXISTING CIRCUIT BREAKER'S.

SIEMENS-ALLIS, 250-AMP, 208/120V, 3-PHASE, 4-WIRE

INCOMING LUGS	(R) PRIMARY CHILLED WATER PUMP 78-P1	(R) 78-P6	SPACE
SUPPLY FAN 78-S3	(R) 78-P2	(R) 78-P7	BREAKER FOR PANEL
RETURN FAN 78-R3 RF5 - 1.9 HP	78-P3	AHU-5 SUPPLY FAN	PANELBOARD 42 POLE 225A 100 MCB
	78-P4	SPARE	
SUPPLY FAN 78-S4	EF-9	PHASE MONITOR CONTROLS	
RETURN FAN 78-R4			
SUPPLY FAN 78-S5	RF-3		

4 MCC2 – DEMOLITION PLAN
SCALE: NOT TO SCALE

NOTES:

1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

SIEMENS-ALLIS, 250-AMP, 208/120V, 3-PHASE, 4-WIRE

INCOMING LUGS	(N) CIRCUIT BREAKER FOR PRIMARY CHILLED WATER PUMP 78-P1	SPARE	SPACE
SUPPLY FAN 78-S3	(N) CIRCUIT BREAKER FOR 78-P2	SPARE	BREAKER FOR PANEL
RETURN FAN 78-R3 RF5 - 1.9 HP	78-P3	AHU-5 SUPPLY FAN	PANELBOARD 42 POLE 225A 100 MCB
	78-P4	(N) CIRCUIT BREAKER FOR 78-P10	
SUPPLY FAN 78-S4	EF-9	PHASE MONITOR CONTROLS	
RETURN FAN 78-R4			
SUPPLY FAN 78-S5	RF-3		

5 MCC2 – NEW WORK PLAN
SCALE: NOT TO SCALE

NOTES:

1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
2. PROVIDE NEW LABELS TO REFLECT NEW CONDITIONS.

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

GARDNER PLUS ARCHITECTS, PLLC
40 Wildbriar Road, Rochester NY 14623
585-321-1210 www.gardnerplus.com

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KA PROJECT NUMBER: M023-03

pvl design associates
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FAX: (856)429-5002

SDVOSB CVE

Drawing Title: ELECTRICAL FIRST FLOOR DEMOLITION AND NEW WORK POWER PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: EP101

Dwg. 116 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

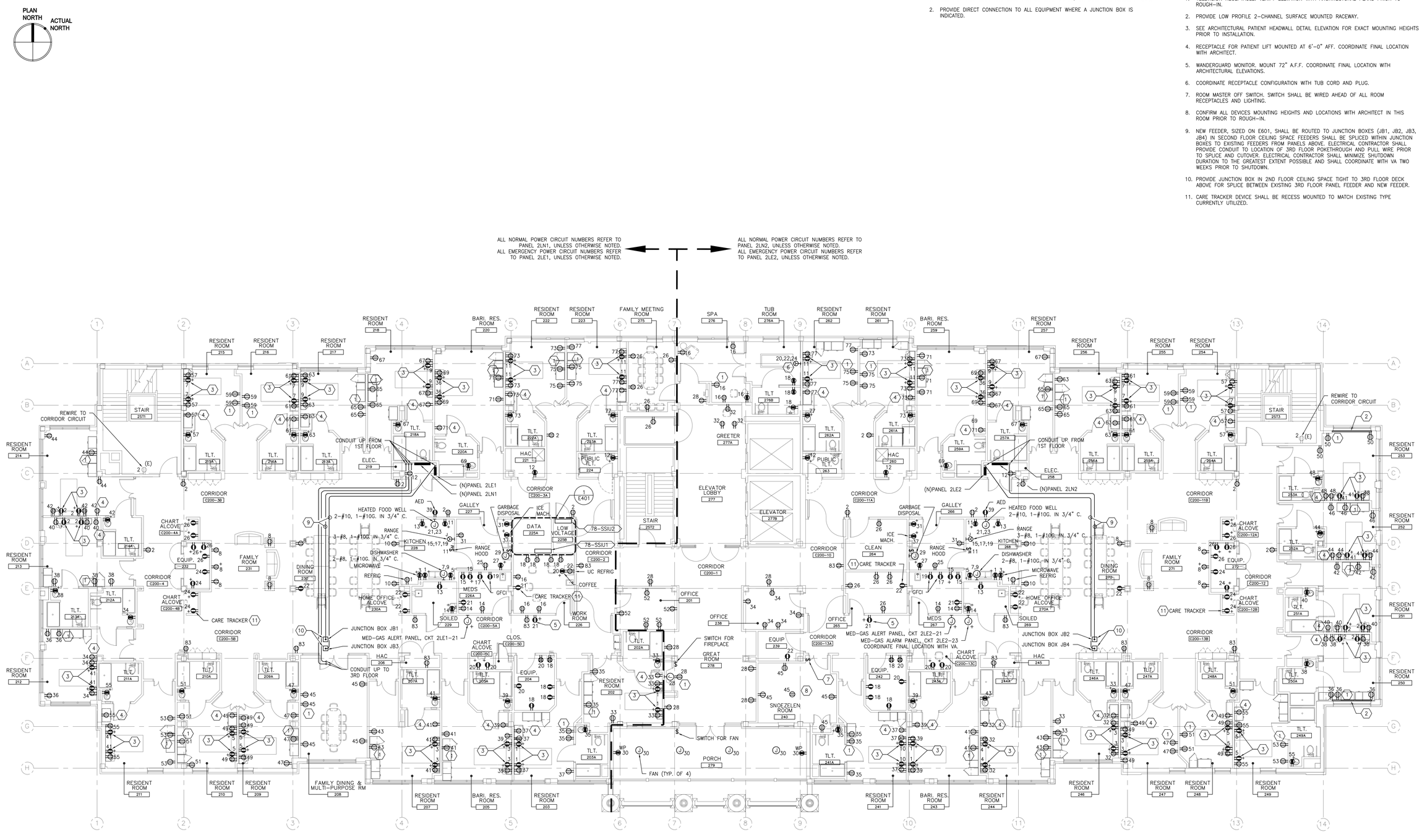
VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. PROVIDE DIRECT CONNECTION TO ALL EQUIPMENT WHERE A JUNCTION BOX IS INDICATED.

SHEET KEYNOTES:

1. TELEVISION RECEPTACLE. VERIFY ELEVATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
2. PROVIDE LOW PROFILE 2-CHANNEL SURFACE MOUNTED RACEWAY.
3. SEE ARCHITECTURAL PATIENT HEADWALL DETAIL ELEVATION FOR EXACT MOUNTING HEIGHTS PRIOR TO INSTALLATION.
4. RECEPTACLE FOR PATIENT LIFT MOUNTED AT 6'-0" AFF. COORDINATE FINAL LOCATION WITH ARCHITECT.
5. WANDERGUARD MONITOR. MOUNT 72" A.F.F. COORDINATE FINAL LOCATION WITH ARCHITECTURAL ELEVATIONS.
6. COORDINATE RECEPTACLE CONFIGURATION WITH TUB CORD AND PLUG.
7. ROOM MASTER OFF SWITCH. SWITCH SHALL BE WIRED AHEAD OF ALL ROOM RECEPTACLES AND LIGHTING.
8. CONFIRM ALL DEVICES MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT IN THIS ROOM PRIOR TO ROUGH-IN.
9. NEW FEEDER, SIZED ON E601, SHALL BE ROUTED TO JUNCTION BOXES (JB1, JB2, JB3, JB4) IN SECOND FLOOR CEILING SPACE FEEDERS SHALL BE SPLICED WITHIN JUNCTION BOXES TO EXISTING FEEDERS FROM PANELS ABOVE. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT TO LOCATION OF 3RD FLOOR POKETHROUGH AND PULL WIRE PRIOR TO SPLICE AND CUTOVER. ELECTRICAL CONTRACTOR SHALL MINIMIZE SHUTDOWN DURATION TO THE GREATEST EXTENT POSSIBLE AND SHALL COORDINATE WITH VA TWO WEEKS PRIOR TO SHUTDOWN.
10. PROVIDE JUNCTION BOX IN 2ND FLOOR CEILING SPACE TIGHT TO 3RD FLOOR DECK ABOVE FOR SPLICE BETWEEN EXISTING 3RD FLOOR PANEL FEEDER AND NEW FEEDER.
11. CARE TRACKER DEVICE SHALL BE RECESS MOUNTED TO MATCH EXISTING TYPE CURRENTLY UTILIZED.



1 ELECTRICAL SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

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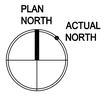
SDVOSB CVE

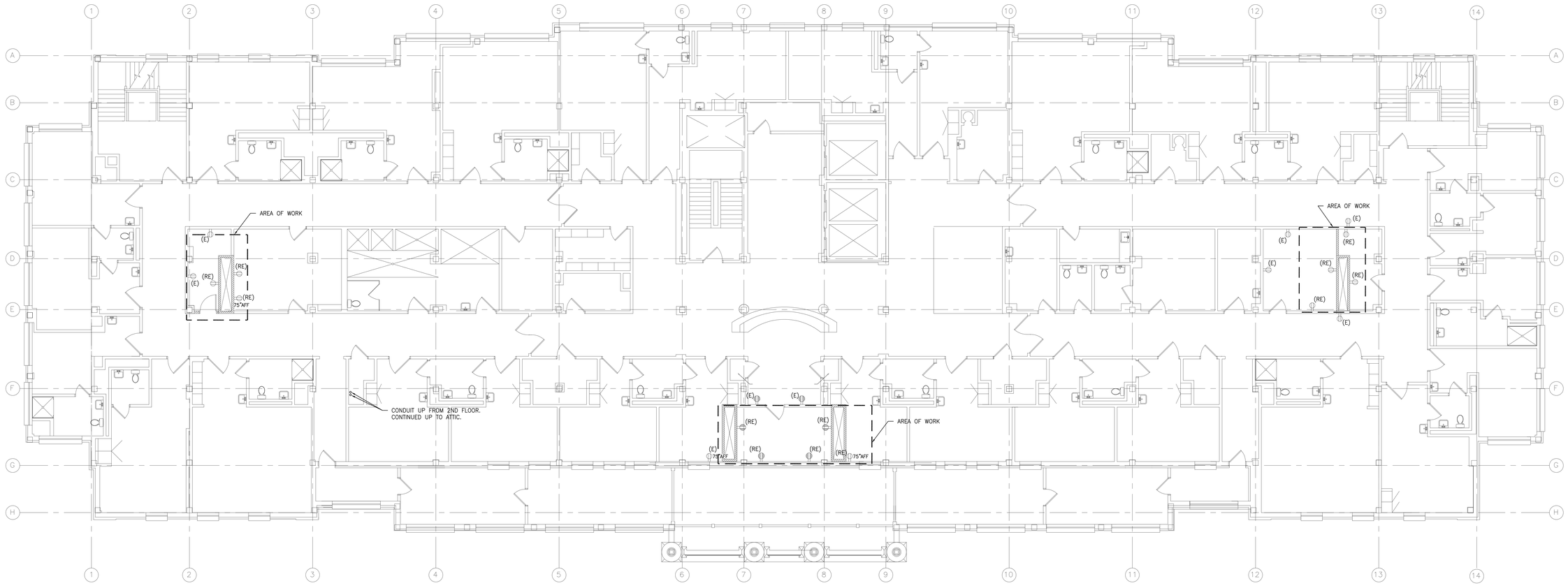
Drawing Title: ELECTRICAL SECOND FLOOR POWER PLAN	Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER	Project Number: 528-A6-13-602	Office of Construction and Facilities Management
Approved: Project Director	Location: VAMC, BATH, NEW YORK	Building Number: BLDG. #78	
	Date: 08-06-2015 / Checked: MJR / Drawn: DRR	Drawing Number: EP102	Department of Veterans Affairs
		Dwg. 117 of 140	

VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.





1 ELECTRICAL THIRD FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

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SDVOSB

Drawing Title: ELECTRICAL THIRD FLOOR POWER PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: EP103

Dwg. 118 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

SIEMENS–ALLIS, 250–AMP, 208–VOLT,
3–PHASE, 3–WIRE

INCOMING LUGS	
	SUPPLY FAN 78–52
SUPPLY FAN 78–51	RETURN FAN 78–R2
	HEAT RECOVERY COIL PUMP 78–D3
EXHAUST FAN 78–EF–1	SPARE
MECHANICAL ROOM PANEL	SPARE
	SPARE

2 MCC1 – LAYOUT PLAN

SCALE: NOT TO SCALE

NOTES:

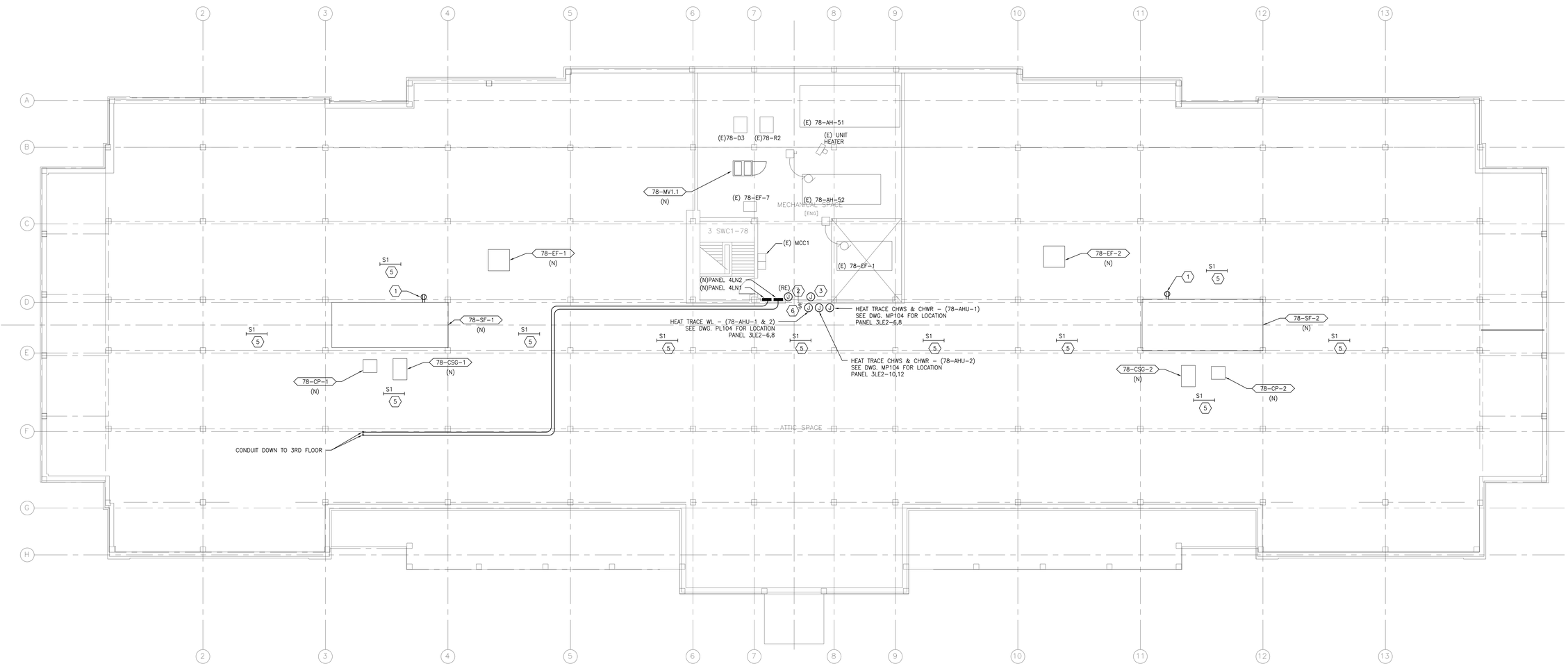
1. ALL EQUIPMENT SHOWN IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. SEE ELECTRICAL CONNECTION SCHEDULE ON DRAWING E603 FOR FURTHER INFORMATION ON CONNECTIONS TO MECHANICAL EQUIPMENT.

SHEET KEYNOTES:

1. CONNECT NEW MAINTENANCE RECEPTACLE TO AVAILABLE CIRCUIT WITH CAPACITY IN THE MECHANICAL ROOM PANEL WITHIN MCC1.
2. RELOCATE JUNCTION BOX TO CLEAR SPACE FOR NEW PANEL.
3. PROVIDE JUNCTION BOX FOR MECHANICAL BMS SYSTEM. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE DEDICATED BRANCH CIRCUIT TO FINAL LOCATION OF JUNCTION BOX FROM SPARE 20–AMP, 1–POLE CIRCUIT BREAKER IN 3RD FLOOR EMERGENCY PANEL 3LE1.
4. NOT USED.
5. MOUNT FIXTURE CHAINS TO STRUCTURE ABOVE SO THAT FIXTURE IS SUSPENDED AT 9'–0". CIRCUIT NEW LIGHTING FIXTURES TO 20–AMP, 1–POLE CIRCUIT BREAKER IN EXISTING MCC–1.
6. NEW LIGHTING SWITCH FOR ATTIC LIGHTING.



1 ELECTRICAL ATTIC POWER PLAN

SCALE: 1/8" = 1'–0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

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SDVOSB CVE

Drawing Title: ELECTRICAL ATTIC DEMOLITION AND NEW WORK PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: EP104

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Office of Construction and Facilities Management

Department of Veterans Affairs

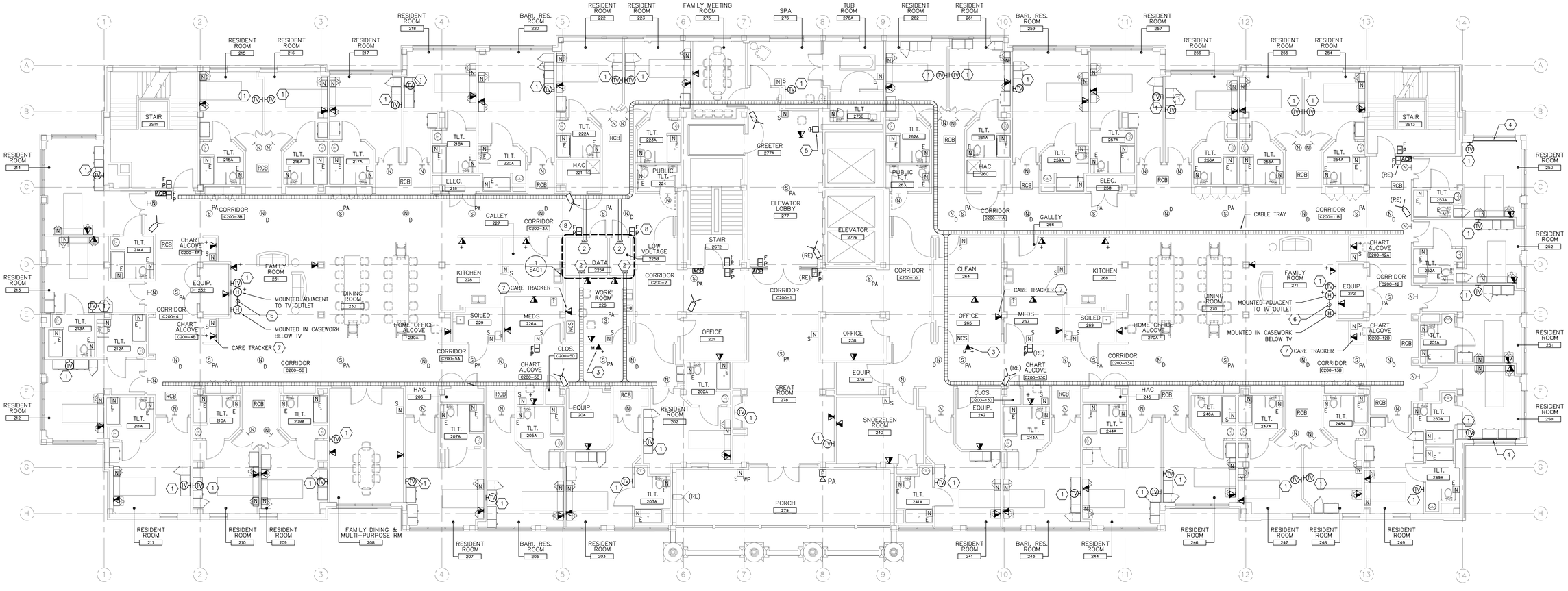
VA FORM 08-6231

GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. BCMA ROLLING CART SYSTEM WIFI WIRELESS ACCESS POINTS, THAT WERE STORED FOR REUSE DURING DEMOLITION, SHALL BE REINSTALLED. ELECTRICAL CONTRACTOR SHALL ENSURE A FULLY FUNCTIONING SYSTEM IS REINSTALLED AND OPERATES SEAMLESSLY AS IS THE PRE-CONSTRUCTION CONDITION. PROVIDE NEW CAT 6 WIRING BACK TO DATA 225 FOR EACH ACCESS POINT. PROVIDE ALLOWANCE FOR 24 WAPS ON THIS FLOOR. ELECTRICAL CONTRACTOR SHALL CONDUCT A NEW SURVEY OF THE WIRELESS SYSTEM AFTER ALL WAPS ARE INSTALLED FOR REVIEW. ANY DAMAGE TO RELOCATED WAPS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. PAGING SPEAKERS SHALL BE TYPE CLARITY BY VALCOM; 25/70 VOLT OPERATION TO MATCH EXISTING SYSTEM.
4. SEE DRAWINGS E501 AND E503 FOR RISER DIAGRAMS AND FURTHER INFORMATION ON SYSTEMS SHOWN ON THIS PLAN.
5. TIE ALL SECURITY CAMERAS AND DOOR CONTROL HARDWARE TO EXISTING SECURITY HEADEND LOCATED IN DATA CLOSET 101. NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SECURITY SYSTEM CURRENTLY IN USE ON FIRST FLOOR.
6. CONTRACTOR SHALL SUBMIT A CABLE TRAY ROUTING PLAN FOR APPROVAL.

SHEET KEYNOTES:

1. CABLE TELEVISION DEVICE. VERIFY ELEVATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
2. PROVIDE (2) 4" CONDUITS FROM CORRIDOR CABLE TRAY TO DATA ROOM 225 AND LOW VOLTAGE ROOM 225B FOR DATA CABLE PATHWAYS.
3. WANDERGUARD MONITOR. MOUNT 72" A.F.F. COORDINATE FINAL LOCATION WITH ARCHITECTURAL ELEVATIONS.
4. PROVIDE LOW PROFILE 2-CHANNEL SURFACE MOUNTED RACEWAY.
5. PUSH BUTTON MOUNTED BELOW DESK FOR ELEVATOR LOBBY DOOR RELEASE.
6. PROVIDE HDMI CABLE BETWEEN TWO HDMI OUTLETS. LENGTH AS REQUIRED.
7. CARE TRACKER DEVICE SHALL BE RECESS MOUNTED TO MATCH EXISTING TYPE CURRENTLY UTILIZED.
8. ROOM DOES NOT UNLOCK UPON FIRE ALARM SYSTEM ACTIVATION.



1 ELECTRICAL SECOND FLOOR SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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SDVOSB CVE

Drawing Title: ELECTRICAL SECOND FLOOR SYSTEMS PLAN

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: EY102

Dwg. 120 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

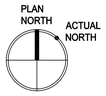
VA FORM 08-6231

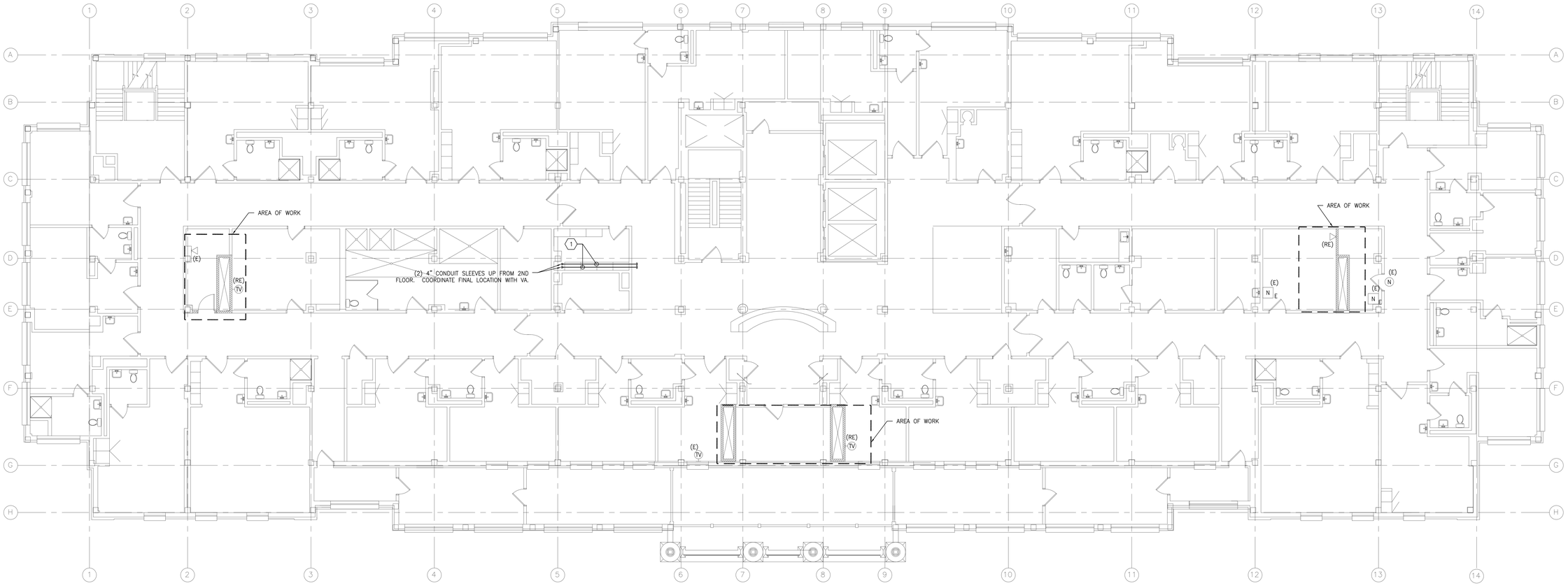
GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SHEET KEYNOTES:

1. (2) 4" C. ABOVE GRID CEILING TO CORRIDOR CEILING SPACE. REROUTE EXISTING THIRD FLOOR TELE/DATA ROOM CABLES THROUGH CONDUIT AND INTO EXISTING THIRD FLOOR CABLE TRAY. SEE DETAILS 7 & 8/E501, DETAIL 1/E502, AND DETAILS 2 & 6/E503 FOR FURTHER INFORMATION ON REROUTED CABLING.





1 ELECTRICAL THIRD FLOOR SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

BID DOCUMENTS
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NO.	DESCRIPTION	DATE

CONSULTANTS:

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Drawing Title: ELECTRICAL THIRD FLOOR SYSTEMS PLAN

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

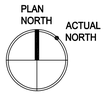
Drawing Number: EY103

Dwg. 121 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

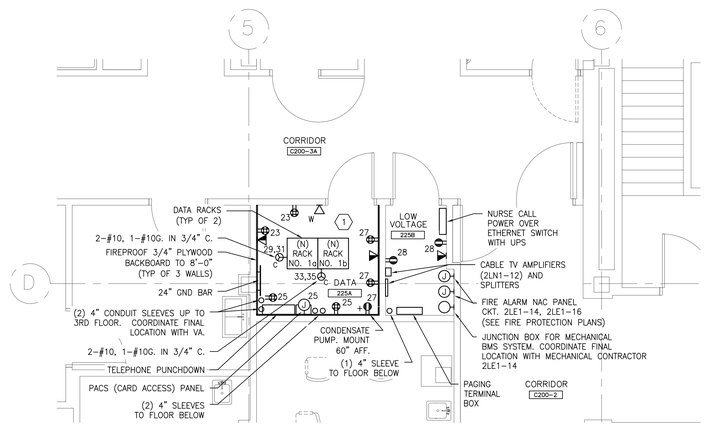


GENERAL SHEET NOTES:

1. SEE DRAWINGS E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

SHEET KEYNOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE "C" HOOKS AROUND PERIMETER OF DATA ROOM AT HEIGHT OF CORRIDOR CABLE TRAY FOR CABLE MANAGEMENT.



1 SECOND FLOOR DATA ROOM ENLARGED PLAN

SCALE: 1/4" = 1'-0"
REF. DWG: EP102

NOTES:

1. ALL RECEPTACLES SHOWN ON THIS PLAN SHALL BE CIRCUITED TO PANEL 2LE1

BID DOCUMENTS

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Drawing Title: ELECTRICAL ENLARGED PLANS

Approved: Project Director

Project Title: **RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER**

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: **528-A6-13-602**

Building Number: BLDG. #78

Drawing Number: E401

Dwg. 122 of 140

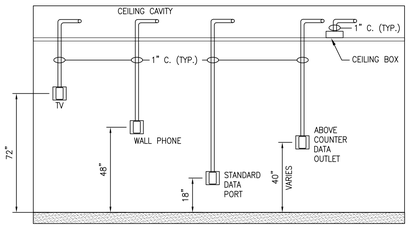
Office of Construction and Facilities Management

Department of Veterans Affairs

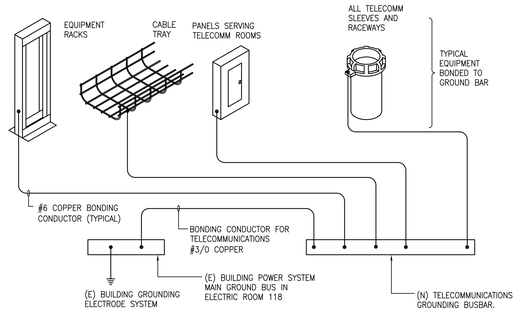
VA FORM 08-6231

STATION CONDUIT NOTES:

1. ALL BOXES SHALL BE DOUBLE GANG WITH REDUCING MUD-RING FOR MOUNTING OF SINGLE GANG FACEPLATE.
2. ALL CONDUIT AND BOXES TO BE INSTALLED WITHIN SHEETROCK OR BLOCK WALLS. NO SURFACE MOUNTING OF CONDUIT.
3. COORDINATE TV MONITOR MOUNTING HEIGHTS WITH COR.
4. ALL CONDUITS SHALL TERMINATE IN AN ACCESSIBLE CEILING. FURNISH WITH BUSHED ENDS.



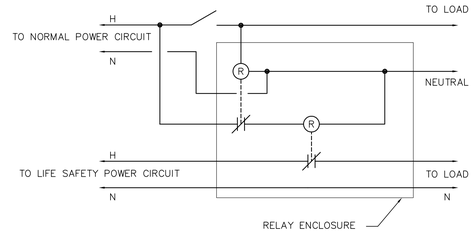
1 TYPICAL TELE/DATA DROP DETAIL
SCALE: NO SCALE



NOTES:

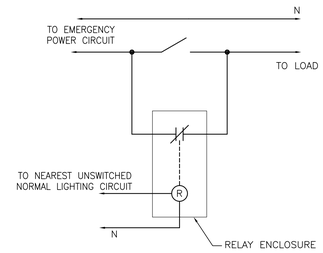
1. ALL BUSBARS SHALL BE 1/4" X 4" X 24" PRE-DRILLED TIN-PLATED COPPER. MOUNT ON WALL WITH 2" STANDOFF INSULATORS.
2. ALL CABLE CONNECTIONS TO GROUND BAR SHALL BE TWO HOLE TONGUE COMPRESSION LUGS.
3. ALL GROUNDING CONDUCTORS SHALL BE COPPER CONDUCTORS WITH GREEN INSULATION OR DISTINCTIVE GREEN MARKING.

2 TELECOMM AND DATA GROUND DIAGRAM
SCALE:



NOTES:

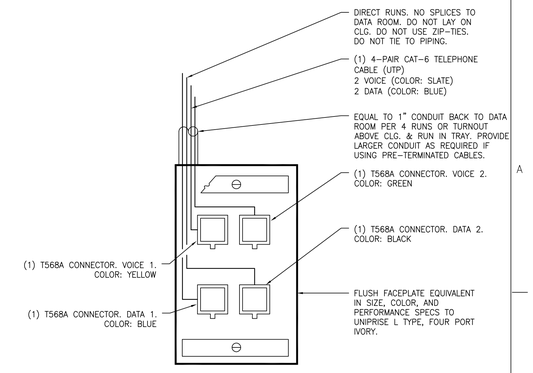
1. RELAY CONFIGURATION SHALL ALLOW ONE SINGLE POLE SWITCH TO CONTROL BOTH NORMAL AND EMERGENCY LIGHTING FIXTURES. CONTACTS ARE CLOSED IN DE-ENERGIZED STATE.
2. IN THE EVENT OF A LOSS OF NORMAL POWER, THE EMERGENCY LIGHTING SHALL BE SHUNTED ON AUTOMATICALLY FOR THE DURATION OF THE POWER OUTAGE. LIGHTING SHALL RETURN TO ITS LAST SETTING (ON OR OFF) UPON RESTORATION OF NORMAL POWER.
3. PROVIDE IN NEMA 1 ENCLOSURE WITH STEEL BARRIER TO SEPARATE NORMAL AND EMERGENCY POWER.



NOTES:

1. RELAY CONFIGURATION SHALL ALLOW SWITCHING OF EMERGENCY LIGHTING FIXTURES. CONTACT IS CLOSED IN DE-ENERGIZED STATE.
2. IN THE EVENT OF A LOSS OF NORMAL POWER, THE EMERGENCY LIGHTING SHALL BE SHUNTED ON AUTOMATICALLY FOR THE DURATION OF THE POWER OUTAGE. LIGHTING SHALL RETURN TO ITS LAST SETTING (ON OR OFF) UPON RESTORATION OF NORMAL POWER.
3. PROVIDE IN NEMA 1 ENCLOSURE WITH STEEL BARRIER TO SEPARATE NORMAL AND EMERGENCY POWER.

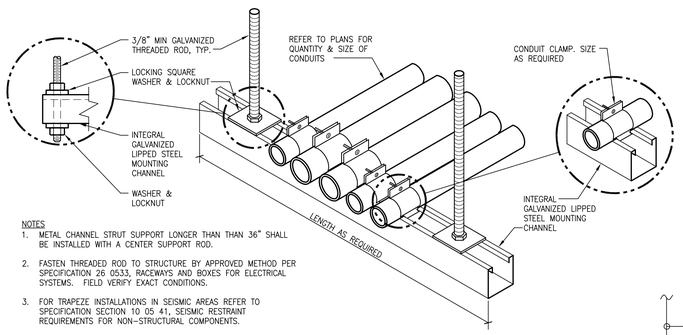
3 EMERGENCY LIGHTING FIXTURE SWITCHING CONTROL SCHEMATICS
SCALE: NOT TO SCALE



NOTES:

1. TERMINATE & TEST ALL WIRING.
2. PORTS USED SHALL BE EQUIVALENT IN SIZE, COLOR, AND PERFORMANCE SPECS TO UNIPRISE UNJ600 INFORMATION OUTLETS.

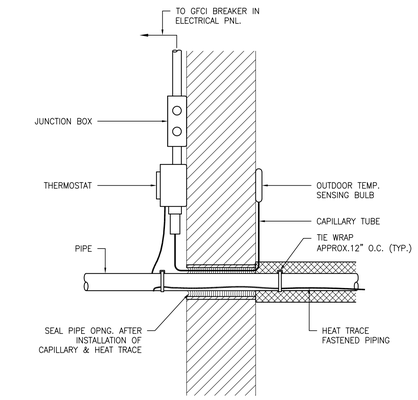
4 TYPICAL TELE/DATA OUTLET DETAIL
SCALE: NO SCALE



NOTES:

1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 0533, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

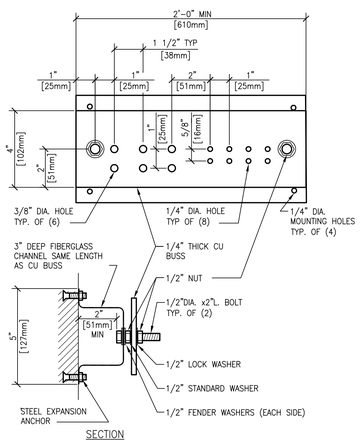
5 CONDUIT TRAPEZE MOUNTING DETAIL
SCALE: SCHEMATIC



9 HEAT TRACE DETAIL
SCALE: NONE

NOTES:

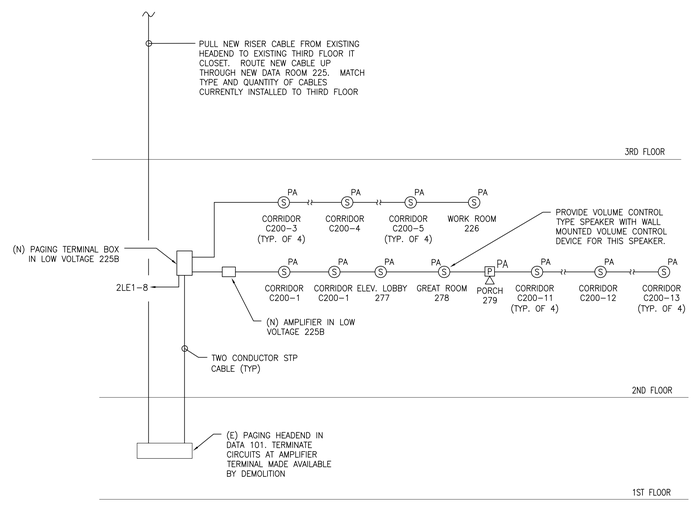
1. FOR HEAT TRACE ATTIC INSTALLATION, JUNCTION BOX, THERMOSTAT, ETC. SHALL BE MOUNTED TO STRUCTURE INSIDE ATTIC. PIPES WILL NOT PASS THROUGH WALL.
2. DETAIL IS DIAGRAMMATIC. COORDINATE SPECIFIC INSTALLATION IN FIELD.



NOTES

1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

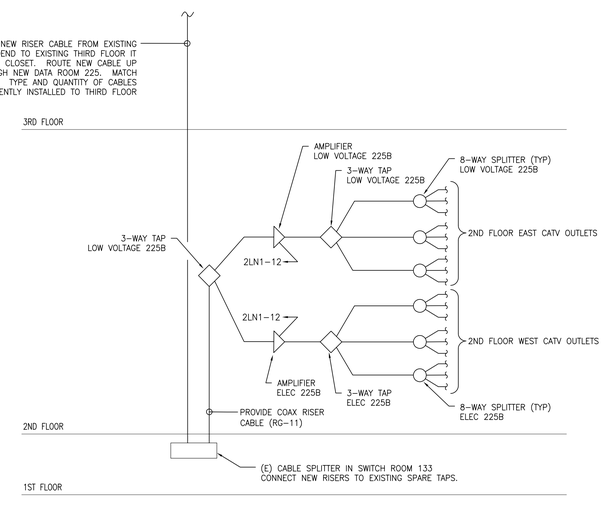
6 GROUNDING BAR DETAIL
SCALE: NONE



7 PAGING RISER DIAGRAM
SCALE: NONE

NOTES:

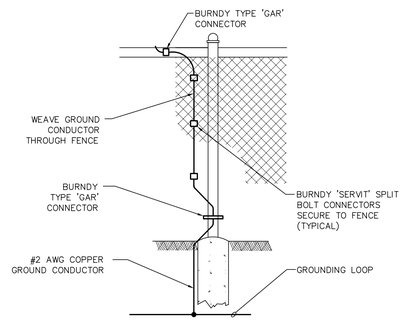
1. ADJUST ALL AMPLIFIER AND SPEAKER POWER IN FIELD TO ACCOMMODATE FOR WIRING AND SPEAKER CONFIGURATIONS.
2. REFER TO PLANS FOR EXACT DEVICE QUANTITY AND LOCATIONS.
3. UTILIZE NEW 4" FLOOR CORES IN LOW VOLTAGE ROOM 225B FOR RISER CABLES DOWN TO FIRST FLOOR. SEE DRAWING E401 FOR LOCATION.



8 TELEVISION RISER DIAGRAM
SCALE: NONE

NOTES:

1. EC SHALL PROVIDE A FULLY OPERATIONAL CABLE TV SYSTEM.
2. PROVIDE SPLITTERS WITH APPROPRIATE AMOUNT OF JACKS AS REQUIRED BY PROJECT INCLUDING SPARES. PROVIDE TERMINAL CAPS FOR ALL UNUSED SPLITTER PORTS.
3. UTILIZE NEW 4" FLOOR CORE IN LOW VOLTAGE ROOM 225B FOR RISER CABLES DOWN TO FIRST FLOOR. SEE DRAWING E401 FOR LOCATION.



10 FENCE POST GROUNDING DETAIL
SCALE: NONE

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NO.	DESCRIPTION	DATE

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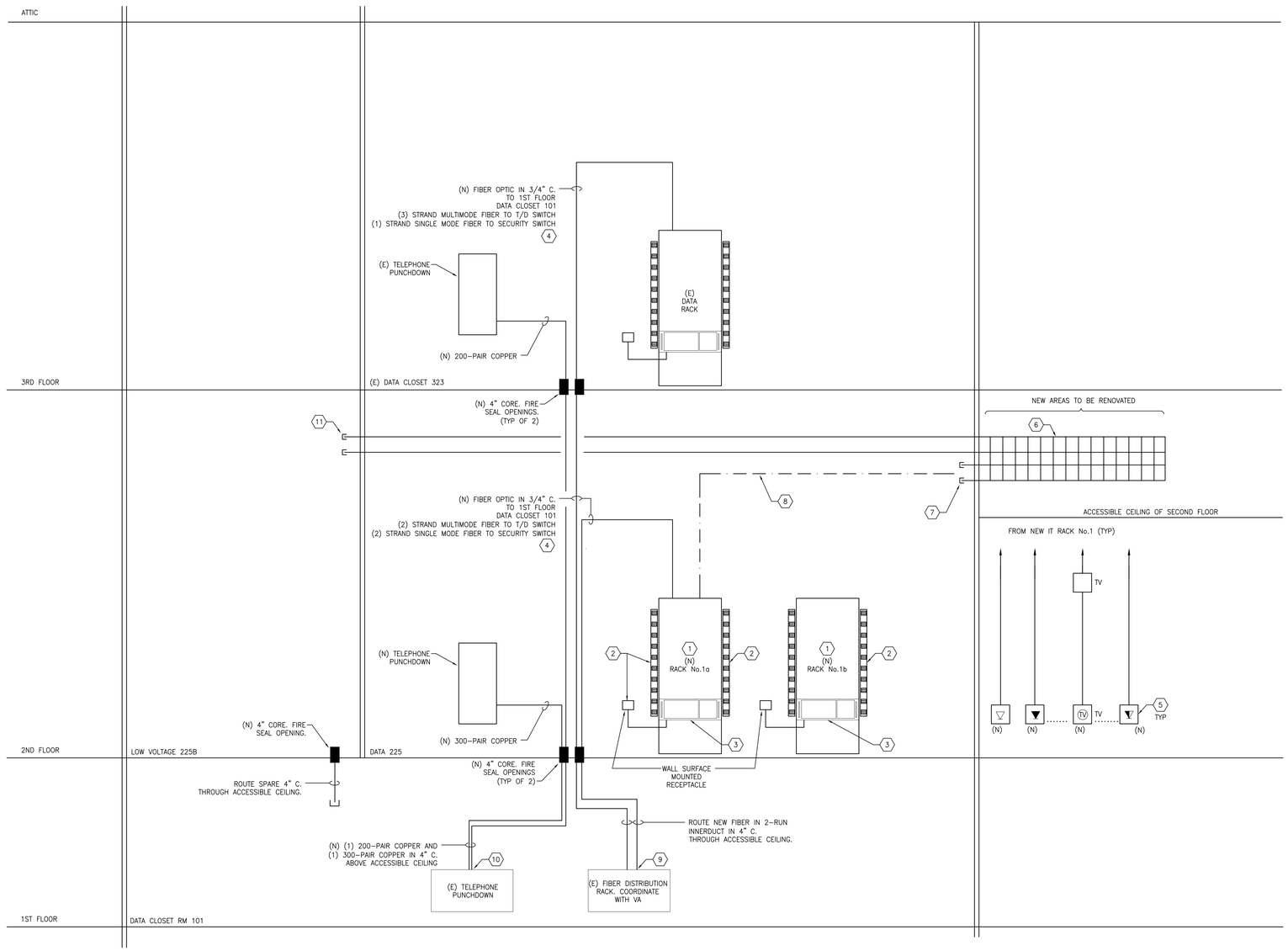
SDVOSB CVE

Drawing Title	ELECTRICAL DETAILS
Approved: Project Director	
Project Title	RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER
Location	VAMC, BATH, NEW YORK
Date	08-06-2015
Checked	MJR
Drawn	DRR
Project Number	528-A6-13-602
Building Number	BLDG. #78
Drawing Number	E501
Dwg. 123 of 140	

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



1 TELECOMMUNICATIONS WIRING SCHEMATIC DIAGRAM– CONNECTIONS TO NEW 2ND AND EXISTING 3RD FLOOR DATA RACKS

SCALE: N.T.S.

GENERAL SHEET NOTES:

1. SEE DWG. E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. NEW WORK SHALL BE SUBJECT TO DIRECTION AND APPROVAL OF THE VA. SHUTDOWNS OR SERVICE INTERRUPTIONS REQUIRED SHALL BE CLOSELY COORDINATED WITH THE VA, IN MULTIPLE PHASES, MAINTAINING SERVICES FOR REGULAR VA WORK HOURS. SHUTDOWNS OR SERVICE INTERRUPTIONS REQUIRED SHALL BE COORDINATED WITH AND APPROVED BY THE VA BEFORE THEY ARE IMPLEMENTED. SUFFICIENT ADVANCE NOTICE MUST BE PROVIDED TO THE OWNER.
3. PRIOR TO ANY WORK, E.C. WILL DO A WALK THROUGH WITH THE FACILITY SERVICE PROJECT LEAD AND CHIEF NETWORK OPERATIONS PERSONNEL OF THE VA TO INSPECT ALL THE VOICE AND DATA INSTALLATION WORK. E.C. WILL IDENTIFY IT EQUIPMENT PLACEMENT AND WILL FINALIZE THE LOCATION OF THE CABLE INSTALLATIONS. ALL IT CONNECTIONS SHALL BE APPROVED AND COORDINATED WITH THE FACILITY SERVICE PROJECT LEAD AND CHIEF NETWORK OPERATIONS PERSONNEL OF THE BATH, NY VA FACILITY.
4. MAINTAIN BRANCH CIRCUITING IN EXISTING 3RD FLOOR TELE/DATA ROOM DURING CONSTRUCTION.

SHEET KEYNOTES:

1. E.C. TO PROVIDE OPEN FRAME RACK CABINET TO MATCH EXISTING IT RACKS IN OTHER INSTALLATIONS ON THE VA CAMPUS.
   E.C. TO PROVIDE AND INSTALL ALL THE COMPONENTS FOR THE NEW IT RACKS SUCH AS; CABLE MANAGEMENT SUPPORT BARS FOR PATCH PANEL, CAT 6 ENCLOSURES ACCESSORIES, ADAPTER PANELS, PATCH PANELS AND ANY OTHER EQUIPMENT/ACCESSORY REQUIRED.
   PROVIDE AT A MINIMUM: (1) DATA SWITCH, (1) SECURITY SYSTEM SWITCH, (4) 96–PORT DATA PATCH PANELS, (1) 24–PORT SECURITY PATCH PANEL.
   PRIOR TO ANY PURCHASE, E.C. TO COORDINATE ALL THE COMPONENTS FOR THE NEW IT RACKS WITH VA IT FACILITY DEPARTMENT.
2. E.C. TO PROVIDE AND INSTALL TWO POWER STRIPS ON EACH SIDE OF THE NEW RACK. EACH POWER STRIP WILL HAVE A TOTAL OF (10) 5–15 STANDARD RECEPTACLES CONNECTED TO THE RACK MOUNTED UPS. THE UPS SHALL THEN BE WIRED TO A DEDICATED L5–30R TWIST LOCK RECEPTACLE MOUNTED ON THE WALL. REFER TO DRAWING EP102 FOR POWER CONNECTIONS.
3. E.C. TO PROVIDE AND INSTALL SMART–UPS 3000 RACKMOUNT BLACK AS FOLLOW:
   - OUTPUT POWER CAPACITY: 3000 VA, NOMINAL OUTPUT VOLTAGE : 120V, OUTPUT CONNECTIONS: (8) NEMA 5–15R
   - NOMINAL INPUT VOLTAGE: 120V, INPUT CONNECTION TYPE: NEMA L5–30P, CORD LENGTH : 8 FT
   - BATTERY TYPE: MAINTENANCE–FREE SEALED LEAD–ACID BATTERY WITH SUSPENDED ELECTROLYTE, LEAKPROOF.
   - TYPICAL BACKUP TIME AT FULL LOAD: 5.7 MINUTES, TYPICAL BACKUP TIME AT HALF LOAD: 16.8 MINUTES.
   - INTERFACE PORT AND CONTROL PANEL WITH LED STATUS DISPLAY WITH LOAD AND BATTERY BAR–GRAPHS.
   - AUDIBLE ALARM WHEN ON BATTERY
   - EMERGENCY POWER OFF
   - SURGE ENERGY RATING: 880 JULES
   - DIMENSIONS: RACK HEIGHT 3U.
4. E.C. TO PROVIDE AND INSTALL CONNECTIONS BETWEEN NEW AND EXISTING TELE/DATA AND SECURITY SWITCHES LOCATED IN NEW RACK AND EXISTING FIBER NETWORK.

   CONNECTIONS SHALL BE DONE IN MULTI AND SINGLE MODE OPTICAL FIBER, SC ENDS AND CERTIFIED.
5. ALL NEW VOICE AND DATA JACKS SHALL BE CATEGORY 6–COMPLIANT EIGHT POSITION RJ–45 NON–KEYED (EIA/TIA 568A).

   ALL NEW OUTLETS SHALL BE QUADPLEX JACKS WITH QUADPLEX FLUSH MOUNTED FACEPLATE. THE TWO LEFT JACKS ARE DESIGNED FOR DATA AND ARE A DIFFERENT COLOR TO DISTINGUISH THEM FROM THE TWO RIGHT JACKS FOR VOICE. CATEGORY 6 WIRING SHALL BE INSTALLED FROM EACH JACK TO RACK AND SHALL BE OF A TYPE DESIGNED TO SUPPORT LEVEL FIVE DATA COMMUNICATION (NOT LESS THAN 100MHZ/MPBS). EACH UNSHIELD PAIR WIRING SHALL BE ROUTED THROUGH THE NEW CORRIDOR CABLE TRAY.
6. E.C. TO PROVIDE AND INSTALL A METALLIC LADDER TYPE CABLE TRAY 8"W X 4"H. REFER TO DRAWING EY102 FOR EXACT LOCATION OF TRAY. CABLE TRAY SUPPORTS SHALL COMPLY WITH NEC–392, NEMA V1 AND NEMA FG1 STANDARDS. E.C. TO COORDINATE ELEVATION OF CABLE TRAY WITH NEW CEILING LAYOUT.
7. E.C. TO PROVIDE (2) 4" C. BETWEEN CORRIDOR CABLE TRAY THROUGH DATA ROOM 225 WALL FOR WIRE PATHWAY. FIRE SEAL OPENINGS.
8. E.C. TO PROVIDE "C" HOOKS AROUND PERIMETER OF DATA ROOM AT ELEVATION OF CABLE TRAY IN CORRIDOR FOR CABLE MANAGEMENT.
9. E.C. TO COORDINATE TERMINATION POINT OF FIBER OPTIC WITH VA.
10. E.C. TO PUNCH DOWN ACTIVE CABLES. COORDINATE WITH VA.
11. E.C. TO PROVIDE (2) 4" C. BETWEEN CORRIDOR CABLE TRAY THROUGH LOW VOLTAGE 225B WALL FOR WIRE PATHWAY. FIRE SEAL OPENINGS.

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SDVOSB CVE

Drawing Title	ELECTRICAL DETAILS
Approved: Project Director	
Project Title	RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER
Location	VAMC, BATH, NEW YORK
Date	08-06-2015
Checked	MJR
Drawn	DRR
Project Number	528-A6-13-602
Building Number	BLDG. #78
Drawing Number	E502
Dwg. 124 of 140	

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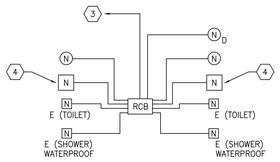
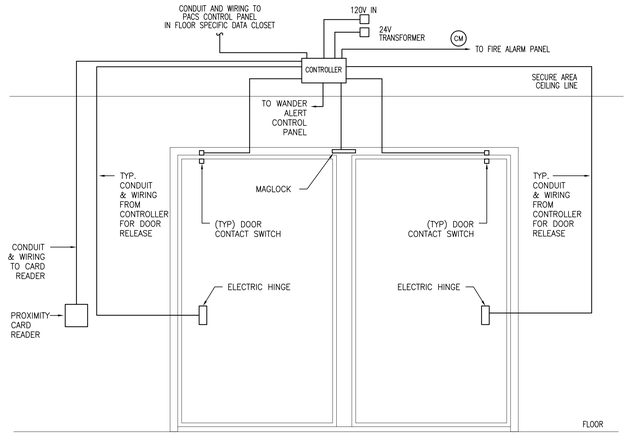


NOTE: THE ABOVE WIRING DIAGRAM APPLIES TO NURSE CALL SYSTEM EQUIPMENT LOCATED IN THE SINGLE RESIDENT ROOMS. PROVIDE (1) RCB FOR EVERY (2) RESIDENT ROOMS.

1 TYPICAL RESIDENT ROOM CONTROL BOARD NURSE CALL SYSTEM WIRING DIAGRAM

SCALE: NONE

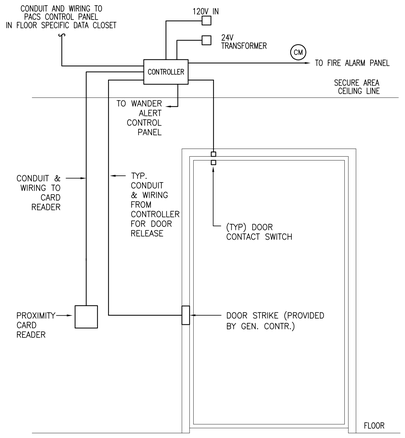


4 MOTORIZED DOUBLE DOOR DETAIL: CARD ACCESS / CARD ACCESS

SCALE: NONE

NOTE:

1. EC TO COORDINATE WITH DOOR VENDOR THE REQUIRED DOOR LOCKING HARDWARE.
2. CONDUIT AND WIRE SIZE AS RECOMMENDED BY MANUFACTURER
3. DOORS SHALL ADHERE TO NFPA 101 AND SHALL RELEASE UPON ONE OF SEVERAL "EMERGENCY" CONDITIONS SUCH AS: LOSS OF POWER TO SENSOR, FIRE ALARM SIGNAL, ETC.
4. CONNECT NEW PACS CONTROLLERS FOR EACH NEW CARD ACCESS DOOR TO NEW PACS CONTROL PANEL IN FLOOR SPECIFIC DATA ROOM.



5 CARD ACCESS SINGLE DOOR DETAIL

SCALE: NONE

NOTE:

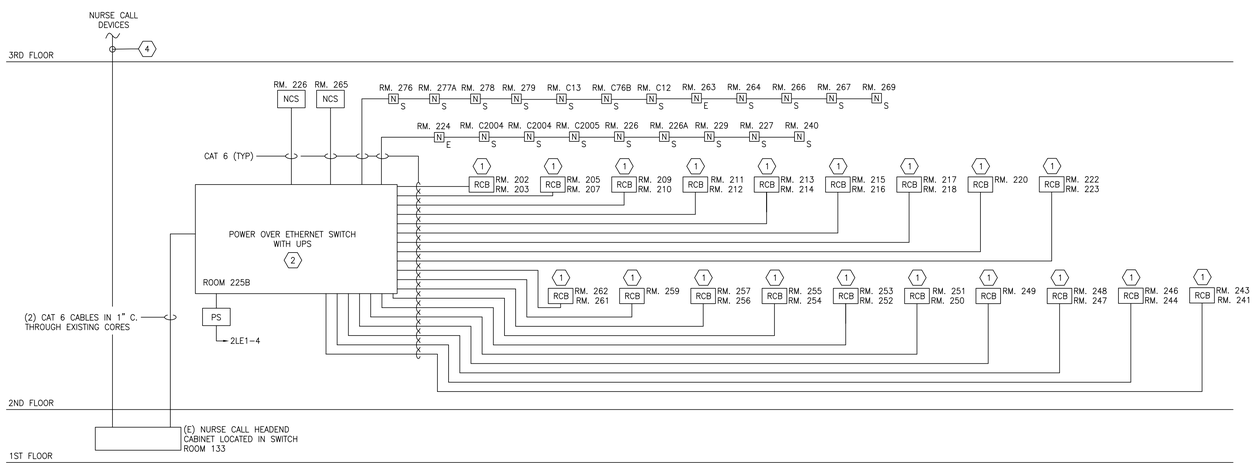
1. EC TO COORDINATE WITH DOOR VENDOR THE REQUIRED DOOR LOCKING HARDWARE.
2. CONDUIT AND WIRE SIZE AS RECOMMENDED BY MANUFACTURER
3. DOOR SHALL ADHERE TO NFPA 101 AND SHALL RELEASE UPON ONE OF SEVERAL "EMERGENCY" CONDITIONS SUCH AS: LOSS OF POWER TO SENSOR, FIRE ALARM SIGNAL, ETC. (EXCEPTION: DATA ROOM 225 AND LOW VOLTAGE ROOM 225B SHALL NOT UNLOCK UPON ACTIVATION OF FIRE ALARM SYSTEM.)
4. CONNECT NEW PACS CONTROLLERS FOR EACH NEW CARD ACCESS DOOR TO NEW PACS CONTROL PANEL IN FLOOR SPECIFIC DATA ROOM.

GENERAL SHEET NOTES:

1. SEE DWG. E001 AND E002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

KEYED NOTES

1. REFER TO TYPICAL SINGLE RESIDENT ROOM NURSE CALL SYSTEM WIRING DIAGRAM 1/E503 FOR ADDITIONAL INFORMATION.
2. PROVIDE POWER OVER ETHERNET SWITCH AS REQUIRED BY MANUFACTURER. PROVIDE ALL ANCILLARY EQUIPMENT AS REQUIRED INCLUDING, BUT NOT LIMITED TO, POWER SUPPLIES, UPS, RACK, ETC.
3. CAT 6 HOMERUN TO FLOOR POWER OVER ETHERNET SWITCH LOCATED IN LOW VOLTAGE ROOM ON FLOOR.
4. PROVIDE EARTH GROUNDING FOR ENHANCED SINGLE RESIDENT STATION BACK BOX PER NURSE CALL SYSTEM MANUFACTURER'S RECOMMENDATIONS.
5. ACCESS CONTROL PANEL (ACP) PROVIDED E.C. APPROVED SYSTEM SHALL OPERATE WITH 40 Mhz BRACELETS. ACP TO BE INSTALLED AT DOOR AND INTERFACED WITH MAGNETIC LOCK TO KEEP THE DOOR LOCKED. ACP SHOULD HAVE THREE DRY CONTACT OUTPUTS TO INTERFACE WITH CAMERA SYSTEM, NURSE CALL, ALARM SYSTEM, OR SOUNDERS AS INDICATED.
6. WIRE THROUGH PACS DOOR CONTROLLER. SEE GENERAL NOTES BELOW FOR FURTHER INFORMATION ON AUTOMATIC RELEASE PROTOCOL.
7. POWER-LIMITED SUPPLY/CHARGER TO CONVERT 115VAC, 50/60 HZ INPUT, INTO A POWER-LIMITED 9 VDC OUTPUT.

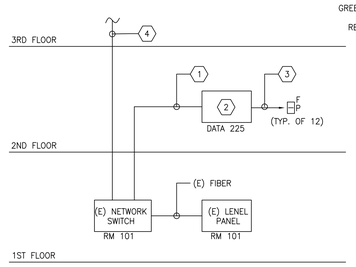


2 NURSE CALL SYSTEM WIRING DIAGRAM

SCALE: NONE

NOTES:

1. NEW NURSE CALL COMPONENTS SHALL BE HILLROM TYPE TO MATCH EXISTING NURSE CALL SYSTEM ON FIRST FLOOR.
2. ALL WIRING, SEAFOAM GREEN IN COLOR, SHALL BE IN CONDUIT FROM POINT OF USE TO OUTSIDE OF RESIDENT ROOMS, UNTIL WIRE ENTERS CABLE TRAY.
3. REFER TO PLAN FOR EXACT DEVICE QUANTITY AND LOCATION.
4. ELECTRICAL CONTRACTOR SHALL PULL A NEW NURSE CALL WIRE FROM EACH EXISTING NURSE CALL DEVICE ON THIRD FLOOR DOWN TO FIRST FLOOR HEADEND. MATCH TYPE AND QUANTITY OF WIRES CURRENTLY SERVING THIRD FLOOR (MINIMUM 40 WIRES). WIRES SHALL BE ROUTED DOWN TO SECOND FLOOR CEILING SPACE AND THEN DOWN TO FIRST FLOOR THROUGH NEW CORES IN LOW VOLTAGE ROOM 225B. CONTRACTOR SHALL SUBMIT ROUTING PLAN FOR REFEEDING EXISTING DEVICES ON 3RD FLOOR BEFORE CONSTRUCTION BEGINS FOR APPROVAL. 3RD FLOOR MUST REMAIN OPERATIONAL TO THE GREATEST EXTENT POSSIBLE.

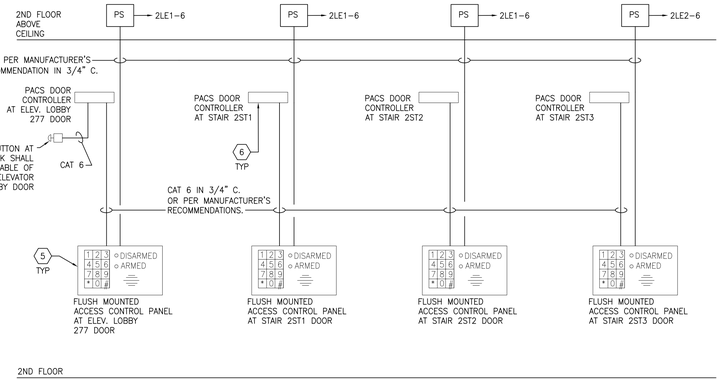


6 CARD ACCESS (PACS) RISER DIAGRAM

SCALE: NONE

NOTES:

1. 1-STRAND MULTIMODE FIBER OPTIC CONNECTION. ROUTE FIBER THROUGH CORES PROVIDED IN DATA ROOMS DOWN TO FIRST FLOOR CEILING SPACE. COORDINATE FIBER OPTIC REQUIREMENTS WITH EXISTING PACS SYSTEM MANUFACTURER.
2. PACS PANEL WITH ALL COMMUNICATION HARDWARE AND DOOR CONTROLLERS. SYSTEM SHALL ACT AS AN EXTENSION OF FIRST FLOOR SYSTEM AND MANUFACTURER SHALL BE THE SAME.
3. CAT 6 (COLOR YELLOW) CONNECTION ROUTED THROUGH CABLE TRAY.
4. ELECTRICAL CONTRACTOR SHALL PULL NEW CONNECTOR CABLE FROM ROOM 101 TO EXISTING THIRD FLOOR DEVICES. MATCH CABLE TYPE AND QUANTITY.



3 WANDER ALERT SYSTEM WIRING DIAGRAM

SCALE: NONE

GENERAL NOTES FOR INSTALLATION AND OPERATION OF MAGNETIC LOCK INTO THE DOOR:

1. THE DOOR SHALL BE ARRANGED TO UNLOCK BY A SIGNAL FROM OR LOSS OF POWER TO THE SENSOR.
2. THE DOOR SHALL BE ARRANGED TO UNLOCK FROM A MANUAL UNLOCKING DEVICE LOCATED WITHIN 5 FEET OF THE SECURE DOOR.
3. ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY UNLOCK THE DOOR AND THE DOOR SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET.

BID DOCUMENTS

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NO.	DESCRIPTION	DATE

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SDVOSB CVE

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 | Checked: MJR | Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: E503

Dwg. 125 of 140

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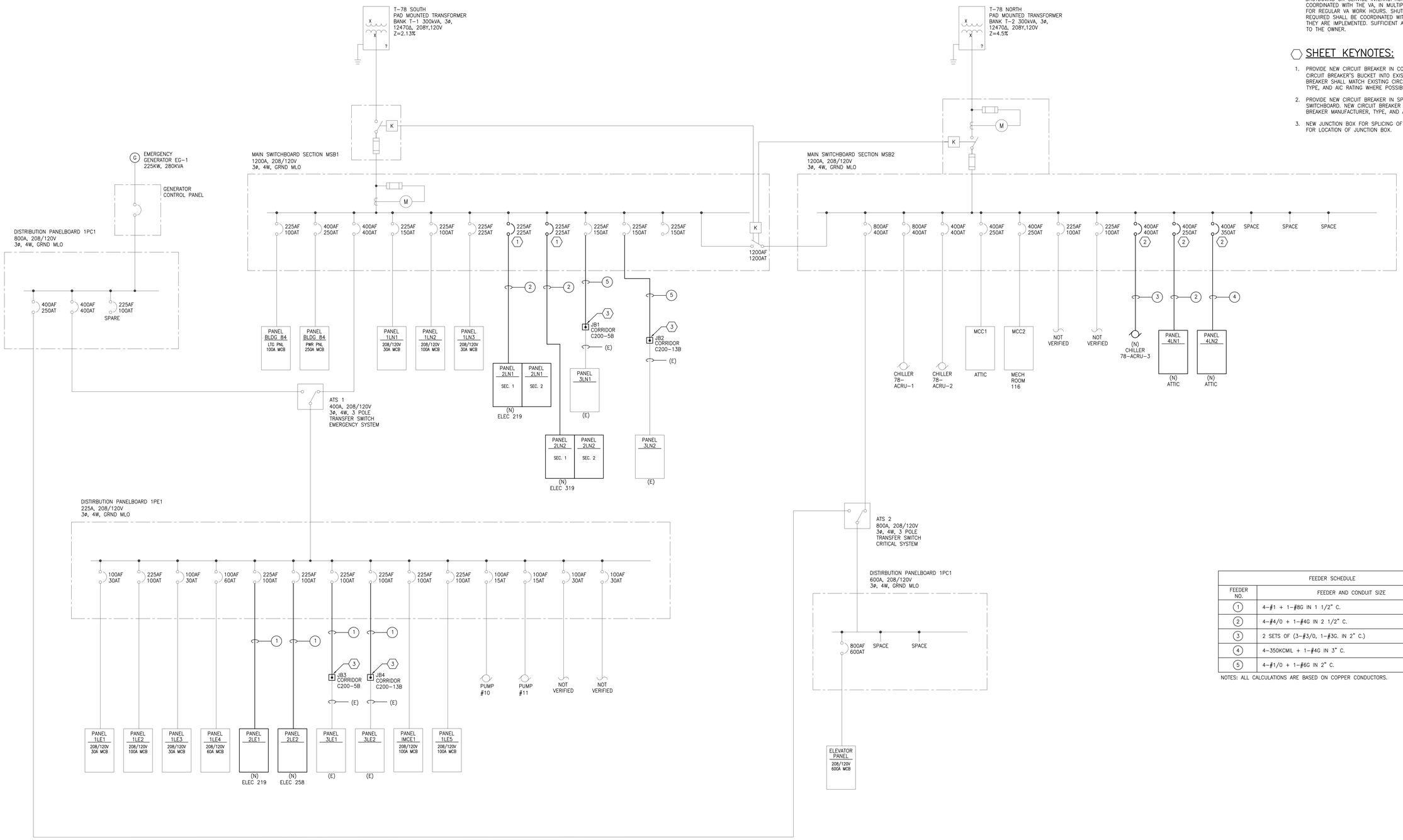

GENERAL SHEET NOTES:

1. SEE DRAWING E-001 AND E-002 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. ALL WORK SHOWN ON THIS DRAWINGS SHALL BE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
3. NEW WORK SHALL BE SUBJECT TO DIRECTION AND APPROVAL OF THE VA. SHUTDOWNS OR SERVICE INTERRUPTIONS REQUIRED SHALL BE CLOSELY COORDINATED WITH THE VA, IN MULTIPLE PHASES, MAINTAINING SERVICES FOR REGULAR VA WORK HOURS. SHUTDOWNS OR SERVICE INTERRUPTIONS REQUIRED SHALL BE COORDINATED WITH AND APPROVED BY THE VA BEFORE THEY ARE IMPLEMENTED. SUFFICIENT ADVANCE NOTICE MUST BE PROVIDED TO THE OWNER.

SHEET KEYNOTES:

1. PROVIDE NEW CIRCUIT BREAKER IN CORRESPONDING DEMOLISHED CIRCUIT BREAKER'S BUCKET INTO EXISTING SWITCHBOARD. NEW CIRCUIT BREAKER SHALL MATCH EXISTING CIRCUIT BREAKER MANUFACTURER, TYPE, AND AIC RATING WHERE POSSIBLE.
2. PROVIDE NEW CIRCUIT BREAKER IN SPARE BUCKET OF EXISTING SWITCHBOARD. NEW CIRCUIT BREAKER SHALL MATCH EXISTING CIRCUIT BREAKER MANUFACTURER, TYPE, AND AIC RATING WHERE POSSIBLE
3. NEW JUNCTION BOX FOR SPLICING OF FEEDER. SEE DRAWING EP102 FOR LOCATION OF JUNCTION BOX.

FEEDER SCHEDULE	
FEEDER NO.	FEEDER AND CONDUIT SIZE
1	4-#1 + 1-#8G IN 1 1/2" C.
2	4-#4/0 + 1-#4G IN 2 1/2" C.
3	2 SETS OF (3-#3/0, 1-#3G. IN 2" C.)
4	4-350KCMIL + 1-#4G IN 3" C.
5	4-#1/0 + 1-#6G IN 2" C.

NOTES: ALL CALCULATIONS ARE BASED ON COPPER CONDUCTORS.

BID DOCUMENTS

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Drawing Title	ELECTRICAL SINGLE LINE DIAGRAM
Approved: Project Director	
Project Title	RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER
Location	VAMC, BATH, NEW YORK
Date	08-06-2015
Checked	MJR
Drawn	DRR
Project Number	528-A6-13-602
Building Number	BLDG. #78
Drawing Number	E601
	Dwg. 126 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

Panel Name: 2LN1

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker:

Panel A.I.C. Rating: 22k

ID	Cct #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Cct #	ID
N	1	Rec - Kitchen 228 - Refrigerator	1	20	REC	720	1800			1080	REC	20	1	Rec - Corridor C200-3A & 3B, C200-4	2	N
N	3	Rec - Kitchen 228 - Microwave	1	20	REC	1500		1500				20	1	SPARE	4	N
N	5	Rec - Kitchen 228	1	20	REC	1200			1200			20	1	SPARE	6	N
N	7	Kitchen 228 - Dishwasher	2	45	K	3430	4330			900	REC	20	1	Rec - Family Rm. 231	8	N
N	9				K	3430		3790		360	REC	20	1	Rec - Dining Rm. 230	10	N
N	11	Rec - Kitchen 228	1	20	REC	1200			1920	720	REC	20	1	Rec - Elec 219,HAC 221,Toil 224, Alcv C200-3C & 3D	12	N
N	13	Rec - Kitchen 228	1	20	REC	1200	1740			540	REC	20	1	Rec - Meds 226A, Soiled 229	14	N
N	15	Range - Kitchen 228	3	40	K	2667		3207		540	REC	20	1	Rec - Work Rm. 226	16	N
	17					2667			3387	720	REC	20	1	Rec - Work Rm. 226	18	N
	19					2667	3667			1000	REC	20	1	Rec - Coffee Work Rm. 226	20	N
N	21	Heated Food Wells - Kitchen 228	2	25	K	2000		3200		1200	REC	20	1	Rec - Refrigerator Work Rm. 226	22	N
	23					2000			2000			20	1	SPARE	24	N
N	25	Rec - Galley 227 - Refrigerator	1	20	REC	720	1440			720	REC	20	1	Rec - Office 275	26	N
N	27	Rec - Galley 227 - Pan Warmer	1	20	REC	1200		1200				20	1	SPARE	28	N
N	29	Rec - Galley 227 - Garbage Deposal	1	20	K	1000			1000			20	1	SPARE	30	N
N	31	Rec - Galley 227	1	20	REC	360	900			540	REC	20	1	Rec - Greeter 277A	32	N
N	33	Rec - Resident 202	1	20	REC	900		1620		720	REC	20	1	Rec - Resident 212	34	N
N	35	Rec - Resident 202, 203	1	20	REC	900			1440	540	REC	20	1	Rec - Resident 212	36	N
N	37	Rec - Resident 203	1	20	REC	720	1440			720	REC	20	1	Rec - Resident 213	38	N
N	39	Rec - Resident 205	1	20	REC	720		1260		540	REC	20	1	Rec - Resident 213	40	N
N	41	Rec - Resident 205, 207	1	20	REC	1080			1800	720	REC	20	1	Rec - Resident 214	42	N
N	43	Rec - Resident 207	1	20	REC	360	900			540	REC	20	1	Rec - Resident 214	44	N
N	45	Rec - Multi-Purpose 208	1	20	REC	720		720				20	1	SPARE	46	N
N	47	Rec - Resident 209	1	20	REC	720			720			20	1	SPARE	48	N
N	49	Rec - Resident 209, 210	1	20	REC	1080	1080					20	1	SPARE	50	N
N	51	Rec - Resident 210	1	20	REC	720		720				20	1	SPARE	52	N
N	53	Rec - Resident 211	1	20	REC	540			540			20	1	SPARE	54	N
N	55	Rec - Resident 211	1	20	REC	720	720					20	1	SPARE	56	N
N	57	Rec - Resident 215	1	20	REC	720		720				20	1	SPARE	58	N
N	59	Rec - Resident 215, 216	1	20	REC	720			720			20	1	SPARE	60	N
N	61	Rec - Resident 216	1	20	REC	720	720					20	1	SPARE	62	N
N	63	Rec - Resident 217	1	20	REC	720		720				20	1	SPARE	64	N
N	65	Rec - Resident 217, 218	1	20	REC	720			720			20	1	SPARE	66	N
N	67	Rec - Resident 218	1	20	REC	900	900					20	1	SPARE	68	N
N	69	Rec - Resident 220	1	20	REC	1080		2345		1265	L	20	1	LTG - 2ND FLOOR WEST CORE	70	N
N	71	Rec - Resident 220	1	20	REC	540			1875	1335	L	20	1	LTG - 2ND FLOOR WEST CORE 230, 231, 232	72	N
N	73	Rec - Resident 222	1	20	REC	900	2185			1285	L	20	1	LTG - 2ND FLOOR RES. ROOMS 202, 203, 205, 207	74	N
N	75	Rec - Resident 222, 223	1	20	REC	720		2055		1335	L	20	1	LTG - 2ND FLOOR RES. ROOMS 208 ,209, 210, & 211	76	N
N	77	Rec - Resident 223	1	20	REC	900			1920	1020	L	20	1	LTG - 2ND FLOOR RES. ROOMS 212, 213, 214	78	N
N	79	SPARE	1	20			810			810	L	20	1	LTG - 2ND FLOOR RES. ROOMS 215, 216, 217	80	N
N	81	SPARE	1	20				1400		1400	L	20	1	LTG - 2ND FLOOR RES. ROOMS 218, 220, 222, 223	82	N
N	83	Rec - Corridor C200-2, C200-5A & 5B, HAC 206	1	20	REC	1080			2550	1470	L	20	1	LTG - 2ND FLOOR WEST CORRIDORS	84	N

Total Connected Load: 22632 | 24457 | 21792 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)	19861	0.70	13903
Lighting (L)	9920	1.25	12400
Receptacles (REC)	39620	0.63	24810
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**69401**		**51113** VA

ELECTRICAL DATA

Total Conn. Load: 69 KVA
Total Conn. Load: 193 Amps
Total Demand Load: 51 KVA
Total Demand Load: 142 Amps
Main Bus Size: 225 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: ELEC 219
Mounting: Surface Enclosure Type: Nema 1
Fed From: EX. SWITCHBOARD MSB1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

Panel Name: 2LN2

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker:

Panel A.I.C. Rating: 22k

ID	Cct #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Cct #	ID
N	1	Rec - Kitchen 268 - Refrigerator	1	20	REC	720	1620			900	REC	20	1	Rec - Corridor C200-11A & 11B, C200-12	2	N
N	3	Rec - Kitchen 268 - Microwave	1	20	REC	1500		1500				20	1	SPARE	4	N
N	5	Rec - Kitchen 268	1	20	REC	1200			1200			20	1	SPARE	6	N
N	7	Kitchen 268 - Dishwasher	1	20	K	3430	4330			900	REC	20	1	Rec - Family Rm. 271	8	N
N	9		1	20	K	3430		3790		360	REC	20	1	Rec - Dining Rm. 270	10	N
N	11	Rec - Kitchen 268	1	20	REC	1200			2460	1260	REC	20	1	Rec - Elec 258,HAC 260,Toil 263,Alcv C200-11C&11D	12	N
N	13	Rec - Kitchen 268	1	20	REC	1200	1740			540	REC	20	1	Rec - Meds 267, Soiled 269	14	N
N	15	Range - Kitchen 268	3	45	K	2667		3387		720	REC	20	1	Rec - Spa 276	16	N
	17					2667			3027	360	REC	20	1	Rec - Tub Room 276A, 276B	18	N
	19					2667	2667								20	
N	21	Heated Food Wells - Kitchen 268	2	25	K	2000		2000			REC	20	3	Tub Room 276A - SPA. SEE NOTE 1.	22	N
	23					2000			2000						24	
N	25	Rec - Galley 266 - Refrigerator	1	20	REC	720	1440			720	REC	20	1	Rec - Office 265	26	N
N	27	Rec - Galley 266 - Pan Warmer	1	20	REC	1200		2280		1080	REC	20	1	Rec - Corr. C200-1, Elev. Lobby 277, Great Rm. 278	28	N
N	29	Rec - Galley 266 - Garbage Deposal	1	20	K	1000			1760	760	REC	20	1	Rec & Ceiling Fan - Porch 279	30	N
N	31	Rec - Galley 266	1	20	REC	360	1360			1000	REC	20	1	Rec - Resident 244, 246	32	N
N	33	Rec - Resident 246	1	20	REC	720		1620		900	REC	20	1	Rec - Office 238	34	N
N	35	Rec - Resident 240, 241	1	20	REC	720			1260	540	REC	20	1	Rec - Resident 250	36	N
N	37	Rec - Resident 241, 243	1	20	REC	1080	1800			720	REC	20	1	Rec - Resident 250	38	N
N	39	Rec - Resident 243	1	20	REC	720		1440		720	REC	20	1	Rec - Resident 251	40	N
N	41	Rec - Resident 243, 244	1	20	REC	720			1260	540	REC	20	1	Rec - Resident 251	42	N
N	43	Rec - Resident 244	1	20	REC	360	1080			720	REC	20	1	Rec - Resident 252	44	N
N	45	Rec - Snoozelen 240, 239	1	20	REC	900		1440		540	REC	20	1	Rec - Resident 252	46	N
N	47	Rec - Resident 247	1	20	REC	540			1260	720	REC	20	1	Rec - Resident 253	48	N
N	49	Rec - Resident 247, 248	1	20	REC	1080	1620			540	REC	20	1	Rec - Resident 253	50	N
N	51	Rec - Resident 248	1	20	REC	540		1440		900	REC	20	1	Rec - Office 201	52	N
N	53	Rec - Resident 249	1	20	REC	540			540			20	1	SPARE	54	N
N	55	Rec - Resident 249	1	20	REC	720	720					20	1	SPARE	56	N
N	57	Rec - Resident 254	1	20	REC	720		720				20	1	SPARE	58	N
N	59	Rec - Resident 254, 255	1	20	REC	720			720			20	1	SPARE	60	N
N	61	Rec - Resident 255	1	20	REC	720	720					20	1	SPARE	62	N
N	63	Rec - Resident 256	1	20	REC	900		900				20	1	SPARE	64	N
N	65	Rec - Resident 256, 257	1	20	REC	720			1870	1150	L	20	1	LTG - GREAT ROOM 278, PORCH	66	N
N	67	Rec - Resident 257	1	20	REC	900	2330			1430	L	20	1	LTG - ELEV LOBBY 277, CORRIDOR C200	68	N
N	69	Rec - Resident 259	1	20	REC	900		2035		1135	L	20	1	LTG - 264, 265, 266, 267, 268, 269	70	N
N	71	Rec - Resident 259	1	20	REC	720			2015	1295	L	20	1	LTG - 2ND FLOOR EAST CORE	72	N
N	73	Rec - Resident 261	1	20	REC	900	2330			1430	L	20	1	LTG - 2ND FL. RES. ROOMS 240, 241, 243, 244 & 246	74	N
N	75	Rec - Resident 261, 262	1	20	REC	720		1835		1115	L	20	1	LTG - 2ND FLOOR RES. ROOMS 247, 248, 249 & 246	76	N
N	77	Rec - Resident 262	1	20	REC	900			2120	1220	L	20	1	LTG - 2ND FLOOR RES. ROOMS 250, 251, 252, 253	78	N
N	79	SPARE	1	20			1150			1150	L	20	1	LTG - 2ND FLOOR RES. ROOMS 254, 255, 256, 257	80	N
N	81	SPARE	1	20				1380		1380	L	20	1	LTG - 2ND FLOOR RES. ROOMS 259, 261, 262 & 276	82	N
N	83	Rec - Corridor C200-10, C200-13A & 13B, HAC 245	1	20	REC	1080			2425	1345	L	20	1	LTG - 2ND FLOOR EAST CORRIDORS	84	N

Total Connected Load: 24907 | 25767 | 23917 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)	19861	0.70	13903
Lighting (L)	12650	1.25	15813
Receptacles (REC)	42080	0.62	26040
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)		1.00	
Refrigeration (REF)		1.00	
Elec. Load Totals:	**74591**		**55755** VA

ELECTRICAL DATA

Total Conn. Load: 75 KVA
Total Conn. Load: 207 Amps
Total Demand Load: 56 KVA
Total Demand Load: 155 Amps
Main Bus Size: 225 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: ELEC 258
Mounting: Surface Enclosure Type: Nema 1
Fed From: EX. SWITCHBOARD MSB1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

NOTE 1 - PROVIDE GFCI CIRCUIT BREAKER.
COORDINATE CIRCUIT BREAKER REQUIREMENTS
WITH TUB MANUFACTURER.

Panel Name: 2LE1

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker:

Panel A.I.C. Rating: 22k

ID	Cct #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Cct #	ID
N	1	Rec - Resident 202 & 203	1	20	REC	720	1440			720	REC	20	1	Rec - Resident 213 & 214	2	N
N	3	Rec - Resident 205 & 207	1	20	REC	720		1220		500	C	20	1	Nurse Call Terminal Cabinet	4	N
N	5	Rec - Resident 209 & 210	1	20	REC	720			1320	600	NC	20	1	Access Control Doors	6	N
N	7	Rec - Resident 215 & 216	1	20	REC	720	1470			750	C	20	1	Paging Headend	8	N
N	9	Rec - Resident 217 & 218	1	20	REC	720		820		100	AC	15	2	78-SSU-1	10	N
N	11	Rec - Resident 222 & 223	1	20	REC	720			820	100					12	
N	13	Rec - Soiled 229	1	20	REC	180	680			500	REC	20	1	NAC Panel - Low Voltage 225B	14	N
N	15	Rec - Meds 226A Refrigerator	1	20	REF	1200		1700		500	REC	20	1	NAC Panel - Low Voltage 225B	16	N
N	17	Rec - Meds 226A PYXIS	1	20	REC	1200			2100	900	REC	20	1	Rec - Equip 204	18	N
N	19	Rec - Meds 226A PYXIS	1	20	REC	1200	2100			900	REC	20	1	Rec - Equip 204, Alcove/Clos C230-5C	20	N
N	21	Rec - Meds 226A Med Carts, Rm. 226, Cor C200-5A	1	20	REC	1400		1940		540	REC	20	1	Rec - Family Rm. 231, Alcove 230A	22	N
N	23	Rec - Data 225	1	20	REC	500			1220	720	REC	20	1	Rec - Equip 232, Alcove C200-4B	24	N
N	25	Rec - Data 225	1	20	REC	720	1620			900	REC	20	1	Rec - Alcove C200-4A, Equip 232	26	N
N	27	Rec - Data 325, 225A	1	20	REC	900		1260		360	REC	20	1	Rec - Low Voltage 225B	28	N
N	29	Special Rec - Data 225	2	30	REC	2000			2000			20	1	SPARE	30	N
	31					2000	2000					20	1	SPARE	32	N
N	33	Special Rec - Data 225	2	30	REC	2000		2000				20	1	SPARE	34	N
	35					2000			2360	360	REC	20	1	Rec - Resident 220	36	N
N	37	Rec - Galley 227 Ice Machine	1	20	REC	1560	2030			470	L	20	1	LTG - 2ND FLOOR NORTHWEST RESIDENT ROOMS	38	N
N	39	Rec - AED C200-3A	1	20	REC	500		975		475	L	20	1	LTG - 2ND FLOOR SOUTHWEST RESIDENT ROOMS	40	N
N	41	Rec - Resident 211 & 212	1	20	REC	720			1660	940	L	20	1	LTG - 2ND FLOOR WEST CORE & CORRIDORS	42	N

Total Connected Load: 11340 | 9915 | 11480 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)	200	1.00	200
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	1885	1.25	2356
Receptacles (REC)	27600	0.68	18800
Existing (E)		1.25	
Continuous (C)	1250	1.25	1563
Non-Continuous (NC)	600	1.00	600
Refrigeration (REF)	1200	1.00	1200
Elec. Load Totals:	**32735**		**24719** VA

ELECTRICAL DATA

Total Conn. Load: 33 KVA
Total Conn. Load: 91 Amps
Total Demand Load: 25 KVA
Total Demand Load: 69 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: ELEC 219
Mounting: Surface Enclosure Type: Nema 1
Fed From: EX. EMERGENCY DISTRIBUTION PANEL 1PE1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

Panel Name: 2LE2

Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker:

Panel A.I.C. Rating: 22k

ID	Cct #	Description	Breaker P	Breaker Trip	Load Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	Cct #	ID
N	1	Rec - Resident 241 & 243	1	20	REC	720	1440			720	REC	20	1	Rec - Resident 250 & 251	2	N
N	3	Rec - Resident 246 & 247	1	20	REC	720		1080		360	REC	20	1	Rec - Resident 244	4	N
N	5	Rec - Resident 248 & 249	1	20	REC	720			920	200	NC	20	1	Access Control Door	6	N
N	7	Rec - Resident 254 & 255	1	20	REC	720	720					20	1		8	N
N	9	Rec - Resident 256 & 257	1	20	REC	720		720				20	1	SPARE	10	N
N	11	Rec - Resident 261 & 262	1	20	REC	720			720			20	1	SPARE	12	N
N	13	Rec - Soiled 269	1	20	REC	180	180					20	1	SPARE	14	N
N	15	Rec - Meds 267 Refrigerator	1	20	REF	1200		1200				20	1	SPARE	16	N
N	17	Rec - Meds 267 PYXIS	1	20	REC	1200			2100	900	REC	20	1	Rec - Equip 242	18	N
N	19	Rec - Meds 267 PYXIS	1	20	REC	1200	2100			900	REC	20	1	Rec - Equip 242, Alcv/Clos C200-13C	20	N
N	21	Rec - Meds 267 Med Carts	1	20	REC	1000		1900		900	REC	20	1	Rec - Family 271, Alcove 270A, Office 265, Equip 239	22	N
N	23	Med Gas Alarm Panel	1	20	C	180			900	720	REC	20	1	Rec - Equip 272, Alcove C200-12B	24	N
N	25	SPARE	1	20			900			900	REC	20	1	Rec - Alcove C200-12A, Equip 272	26	N
N	27	SPARE	1	20								20	1	SPARE	28	N
N	29	SPARE	1	20								20	1	SPARE	30	N
N	31	SPARE	1	20								20	1	SPARE	32	N
N	33	SPARE	1	20								20	1	SPARE	34	N
N	35	SPARE	1	20					360	360	REC	20	1	Rec - Resident 259	36	N
N	37	Rec - Galley 266 Ice Machine	1	20	REC	1560	2260			700	L	20	1	LTG - 2ND FLOOR NORTHEAST RESIDENT ROOMS	38	N
N	39	Rec - AED C200-11A	1	20	REC	500		1200		700	L	20	1	LTG - 2ND FLOOR SOUTHEAST RESIDENT ROOMS	40	N
N	41	Rec - Resident 252 & 253	1	20	REC	720			2195	1475	L	20	1	LTG - 2ND FLOOR EAST CORRIDORS AND LOBBY	42	N

Total Connected Load: 7600 | 6100 | 7195 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)		1.00	
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)	2875	1.25	3594
Receptacles (REC)	16440	0.80	13220
Existing (E)		1.25	
Continuous (C)	180	1.25	225
Non-Continuous (NC)	200	1.00	200
Refrigeration (REF)	1200	1.00	1200
Elec. Load Totals:	**20895**		**18439** VA

ELECTRICAL DATA

Total Conn. Load: 21 KVA
Total Conn. Load: 58 Amps
Total Demand Load: 18 KVA
Total Demand Load: 51 Amps
Main Bus Size: 125 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
"C1" - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: ELEC 258
Mounting: Surface Enclosure Type: Nema 1
Fed From: EX. EMERGENCY DISTRIBUTION PANEL 1PE1
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

CONSULTANTS:

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SDVOSB CVE

Drawing Title: ELECTRICAL SCHEDULES

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 Checked: MJR Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: E602

Dwg. 127 of 140

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

Panel Name: 4LN1
Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker:
Panel A.I.C. Rating: 22k

ID	# of Ckt	Description	P	Breaker Trip	Breaker Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	# of Ckt	ID
	1					11040	11040							UNAVAILABLE	2	
N	3	78-SF-1	3	175	AC	11040		11040						UNAVAILABLE	4	
	5					11040			11040					UNAVAILABLE	6	
	7					7450	7450							UNAVAILABLE	8	
N	9	78-EF-1	3	125	AC	7450		7450						UNAVAILABLE	10	
	11					7450			7450					UNAVAILABLE	12	
	13					2110	2110					20	1	SPARE	14	N
N	15	78-MV1.1	3	30	NC	2110		2110				20	1	SPARE	16	N
	17					2110			2110			20	1	SPARE	18	N
N	19	78-CP-1	1	20	NC	1944	1944					20	1	SPARE	20	N
N	21	78-CSG-1	1	20	NC	156		156				20	1	SPARE	22	N
N	23	SPARE	1	20								20	1	SPARE	24	N

Total Connected Load 22544 20756 20600 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)	55470	1.00	55470
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	8430	1.00	8430
Refrigeration (REF)		1.00	
Elec. Load Totals:	**63900**		**63900** VA

ELECTRICAL DATA

Total Conn. Load: 64 KVA
Total Conn. Load: 177 Amps
Total Demand Load: 64 KVA
Total Demand Load: 177 Amps
Main Bus Size: 400 Amps

PANEL LEGEND (ID)

ST - Shunt-Trip C.B.; G - GFI C.B.
LB - "Lock-On" C.B.
C1 - Contactor Designation
--Remodels--
N - New C.B.; EX - Existing C.B.

PANEL INFORMATION

Location: ATTIC
Mounting: Surface Enclosure Type: Nema 1
Fed From: SWITCHBOARD SECTIONS MSB2
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

Panel Name: 4LN2
Panel Voltage: 208Y/120V, 3 Phase, 4 Wire

New Panel

Main Lugs Only: Yes Main Breaker:
Panel A.I.C. Rating: 22k

ID	# of Ckt	Description	P	Breaker Trip	Breaker Code	Load VA	Phase A	Phase B	Phase C	Load VA	Load Code	Breaker Trip	Breaker P	Description	# of Ckt	ID
	1					14352	14352							UNAVAILABLE	2	
N	3	78-SF-2	3	175	AC	14352		14352						UNAVAILABLE	4	
	5					14352			14352					UNAVAILABLE	6	
	7					11040	11040							UNAVAILABLE	8	
N	9	78-EF-2	3	125	AC	11040		11040						UNAVAILABLE	10	
	11					11040			11040					UNAVAILABLE	12	
	13											20	1	SPARE	14	N
N	15	SPARE	3	20								20	1	SPARE	16	N
	17											20	1	SPARE	18	N
N	19	78-CP-2	1	20	NC	1944	1944					20	1	SPARE	20	N
N	21	78-CSG-2	1	20	NC	156		156				20	1	SPARE	22	N
N	23	SPARE	1	20								20	1	SPARE	24	N

Total Connected Load 27336 25548 25392 (VA/PHASE)

N.E.C. LOAD SUMMARY

Load Types and Codes	Total Load (VA)	Demand Factor	Demand Load (VA)
Air Conditioning (AC)	76176	1.00	76176
Heating (H)		1.00	
Kitchen Equipment (K)		1.00	
Lighting (L)		1.25	
Receptacles (REC)		1.00	
Existing (E)		1.25	
Continuous (C)		1.25	
Non-Continuous (NC)	2100	1.00	2100
Refrigeration (REF)		1.00	
Elec. Load Totals:	**78276**		**78276** VA

ELECTRICAL DATA

Total Conn. Load: 78 KVA
Total Conn. Load: 217 Amps
Total Demand Load: 78 KVA
Total Demand Load: 217 Amps
Main Bus Size: 400 Amps

PANEL LEGEND (ID)

PANEL INFORMATION

Location: ATTIC
Mounting: Surface Enclosure Type: Nema 1
Fed From: SWITCHBOARD SECTIONS MSB2
Equipment Ground Bus: Yes Bus Material: Copper
Isolated Ground Bus: No Neutral Size: 100%

PANEL NOTES

LIGHTING FIXTURE SCHEDULE

TYPE	DIMENSIONS	DESCRIPTION	LAMPS QTY	LAMPS TYPE	BALLAST QTY	VOLTS	MOUNTING	REMARKS
A1	2'x4'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER	2	F32 T8	1	120	RECESSED	
A2	2'x4'	SEALED AND GASKETED, 1.25" PRISMATIC ACRYLIC LENS TROFFER	3	F32 T8	1	120	RECESSSED	
B1	2'x2'	DIRECT/INDIRECT BASKET TYPE TROFFER WITH PERFORATED METAL DIFFUSER	2	F17 T8	1	120	RECESSED	
C1	24" DIA x 10" HIGH	SURFACE MOUNTED DECORATIVE ALUMINUM DRUM FIXTURE WITH ETCHED OPAL ACRYLIC LENS AND LIGHT BRONZE PAINT WITH BRUSHED TEXTURE FINISH. FIXTURE'S LEDS SHALL BE CAPABLE OF DELIVERING 3600 LUMENS AT 3000K.	1	LED	1	120	SURFACE	14 1/2" OAH AND INTEGRAL POWER SUPPLY
D1	6"	FLUORESCENT DOWNLIGHT WITH WHITE TRIM AND VERTICAL LAMPING	1	26WATT DTT	1	120	RECESSED	
D2	6"	FLUORESCENT DOWNLIGHT WITH WHITE TRIM AND VERTICAL LAMPING AND SHOWER RATED LENS	1	26WATT DTT	1	120	RECESSED	UL LISTED WET LOCATION
D3	6"	FLUORESCENT DOWNLIGHT WITH WHITE TRIM AND VERTICAL LAMPING AND FROSTED GLASS LENS	1	32WATT DTT	1	120	RECESSED	
D4	6"	STEEL CONSTRUCTION LED DOWNLIGHT WITH WHITE TRIM AND ALUMINUM ALZAK SEMI-DIFFUSE CLEAR REFLECTOR. FIXTURE SHALL UTILIZE REMOTE PHOSPHOR TECHNOLOGY	1	LED	1	120	RECESSED	PROVIDE 3000K COLOR TEMPERATURE LED DELIVERING 3000 LUMENS
E	9 1/4" WIDE X 3 3/4" HIGH	WHITE BED LIGHT FIXTURE WITH CROWN MOLDED TRIM. PROVIDE 2 LAMPS: DOWNLIGHT CONTROLLED BY PULLCHAIN, UPLIGHT CONTROLLED BY REMOTE WALL SWITCH. BASIS OF DESIGN IS ALCKO IMPRESSION	2	F32T8	2	120	SURFACE	PROVIDE ELECTRONIC BALLAST
N1	8 5/8" WIDE X 5 7/8" HIGH	SINGLE FACE STEP LIGHT WITH METAL HOUSING AND SPRING HELD WHITE LOUVER FACEPLATE.	1	LED	1	120	RECESSED	FACEPLATE SHALL BE SHATTER-RESISTANT WHITE ACRYLIC
P1	7 1/2" HIGH x 21 1/2" WIDE	ENCLOSED ROUND DECORATIVE PENDANT DRUM FIXTURE OPAL ACRYLIC DIFFUSER LENS AND SATIN NICKEL BRASS METAL FINISH	1	LED	1	120	SURFACE	PROVIDE 20" OAH STEM AND 3000K COLOR TEMPERATURE LED
P2	24 1/4" HIGH x 8" WIDE	CYLINDRICAL DECORATIVE PENDANT WITH SOLID ALUMINUM CONSTRUCTION AND METALLIC FINS WITH ETCHED OPAL ACRYLIC LENS AND DARK WOOD FINISH WITH BRUSHED ALUMINUM AND POLISHED KNOBS	1	LED	1	120	SURFACE	28 3/4" OAH AND 3000K COLOR TEMPERATURE LED DELIVERING 2830 LUMENS
P3	9 1/4" HIGH x 3 3/8" WIDE	CYLINDRICAL DECORATIVE MINI-PENDANT FIXTURE WITH POLISHED BRUSHED NICKEL METAL TRIM FINISH. TALL CYLINDER SHADE WITH OPAL WHITE FINISH	1	LED	1	120	SURFACE	COORDINATE STEM LENGTH IN FIELD. PROVIDE 3000K COLOR TEMPERATURE FOR LED.
P4	9 1/2" HIGH x 29" WIDE	ENCLOSED ROUND DECORATIVE PENDANT DRUM FIXTURE OPAL ACRYLIC DIFFUSER LENS AND SATIN NICKEL BRASS METAL FINISH	1	LED	1	120	SURFACE	39" OAH AND 3000K COLOR TEMPERATURE LED
P5	9 1/2" HIGH x 21 1/2" WIDE	DECORATIVE PYRAMIDAL FIXTURE WITH SATIN NICKEL PAINTED FINISH AND WHITE ACRYLIC LENS	2	32WATT DTT	1	120	SURFACE	
P6	8" HIGH x 22 1/2" WIDE	DECORATIVE HEXAGONAL FIXTURE WITH SATIN NICKEL PAINTED FINISH, WHITE ACRYLIC LENSES AND LATTICE DETAILS ON VERTICAL LENSES	2	32WATT DTT	1	120	SURFACE	
P7	8" HIGH x 21 1/2" WIDE	DECORATIVE DRUM FIXTURE WITH SATIN NICKEL PAINTED FINISH. WHITE ACRYLIC LENSES AND LATTICE DETAIL AROUND CEILING TRIM.	2	32WATT DTT	1	120	SURFACE	
P8	8" HIGH x 24" WIDE	DECORATIVE HEXAGONAL FIXTURE WITH SATIN NICKEL PAINTED FINISH, WHITE ACRYLIC LENSES AND LATTICE DETAILS ON VERTICAL AND HORIZONTAL LENSES	2	32WATT DTT	1	120	SURFACE	
S1	4'-0"	INDUSTRIAL STRIP WITH 10% UPLIGHT	2	F32 T8	1	120	CHAIN SUSPENDED	PROVIDE WIRE GUARD CAGE
U1	6" WIDE	LOW PROFILE UNDERCABINET LED FIXTURE WITH WHITE FINISH WITH INTEGRAL ROCKER SWITCH	1	LED	1	120	SURFACE	SEE DRAWINGS FOR LENGTH OF FIXTURE
U2	6" WIDE	LOW PROFILE UNDERCABINET LED FIXTURE WITH WHITE FINISH	1	LED	1	120	SURFACE	SEE DRAWINGS FOR LENGTH OF FIXTURE
W1	6" HIGH x 24.5" WIDE	ENCLOSED DECORATIVE ABOVE MIRROR FIXTURE. LOW PROFILE (4.5") CYLINDRICAL ETCHED GLASS FIXTURE WITH SATIN NICKEL TRIM	2	F17 T8	1	120	SURFACE	
W2		EXTERIOR RATED ENCLOSED WROUGHT IRON SCONCE FIXTURE WITH GLASS LENS	1	26WATT DTT	1	120	SURFACE	UL LISTED WET LOCATION
W4	17 1/2" HIGH x 9" WIDE x 4" DEEP	DECORATIVE ADA-COMPLIANT SCONCE WITH SOLID ALUMINUM CONSTRUCTION AND METALLIC FINS WITH HALF-CIRCLE ETCHED OPAL ACRYLIC LENS AND DARK WOOD FINISH WITH BRUSHED ALUMINUM DETAILS AND POLISHED KNOBS	1	LED	1	120	SURFACE	PROVIDE 3000K COLOR TEMPERATURE LED DELIVERING 500 LUMENS
W5	16" HIGH x 7 1/8" WIDE	DECORATIVE SCONCE WITH SOLID ALUMINUM CONSTRUCTION WITH HALF-CIRCLE ETCHED OPAL ACRYLIC LENS AND LIGHT BRONZE PAINT WITH BRUSHED TEXTURE FINISH	1	LED	1	120	SURFACE	PROVIDE 3000K COLOR TEMPERATURE LED DELIVERING 560 LUMENS
W6	10" HIGH x 2" WIDE	DECORATIVE WALL SCONCE WITH ROUND METAL CANOPY AND BRONZE FINISH AND CYLINDRICAL WHITE ACRYLIC SHADE.	1	LED	1	120	SURFACE	PROVIDE 3000K COLOR TEMPERATURE LED
X	N/A	VA STANDARD EXIT SIGN. EDGE LIT, RED LED ON MIRROR	N/A	LED	N/A	120	SURFACE	SEE PLANS FOR MOUNTING AND DIRECTIONAL ARROW REQUIREMENTS

ELECTRICAL CONNECTION SCHEDULE

TAG	LOCATION	NOTES	ELECTRICAL CHARACTERISTICS V/PH/HZ	MCA	MOCP	KW	HP	LOCAL DISCONNECT DEVICE UNFUSED SWITCH	FUSED SWITCH	MANUAL MOTOR SWITCH OL	PILOT	DIV	STARTER TYPE	SIZE	COMBINATION SW UNFU	SW FUSE	MCP	ACCESSORIES HOA	PILOT	DIV	WIRE & CONDUIT	CIRCUITING
78-SF-1	ATTIC	6,7	208/3/60	115.0	175		30	200A				26	VFD							23	3-#1/0, 1-#6G. IN 1 1/2" C.	4LN1-1,3,5
78-SF-2	ATTIC	6,7	208/3/60	149.5	200		40	200A				26	VFD							23	3-#1/0, 1-#6G. IN 1 1/2" C.	4LN2-1,3,5
78-EF-1	ATTIC	6,7	208/3/60	77.6	125		20	200A				26	VFD							26	3-#2, 1-#6G. IN 1 1/2" C.	4LN1-7,9,11
78-EF-2	ATTIC	6,7	208/3/60	115.0	175		30	200A				26	VFD							26	3-#1/0, 1-#6G. IN 1 1/2" C.	4LN2-7,9,11
78-CP-1	ATTIC		120/1/60	16.2	20		(2) 0.33	X				26									2-#12, 1-#12G. IN 3/4" C.	4LN1-19
78-CP-2	ATTIC		120/1/50	16.2	20		(2) 0.33	X				26									2-#12, 1-#12G. IN 3/4" C.	4LN2-19
78-CSG-1	ATTIC		120/1/60	1.3	15					X		26									2-#12, 1-#12G. IN 3/4" C.	4LN1-21
78-CSG-2	ATTIC		120/1/60	1.3	15					X		26									2-#12, 1-#12G. IN 3/4" C.	4LN2-21
78-ACRU-3	EXTERIOR ON GRADE	7	208/3/60	358.0	400							23									2 SETS OF (3-#3/0, 1-#3G. IN 2" C.)	SEE SINGLE DIAGRAM DWG. E601
78-P-1	MECHANICAL ROOM 116	1,7	208/3/60	31.6	50		7.5						VFD							26	3-#6, 1-#10G. IN 1" C.	MCC2
78-P-2	MECHANICAL ROOM 116	1,7	208/3/60	31.6	50		7.5						VFD							26	3-#6, 1-#10G. IN 1" C.	MCC2
78-P-8	MECHANICAL ROOM 116	5,7	208/3/60	9.8	15		2						VFD							26	3-#12, 1-#12G. IN 3/4" C.	PANEL IMCE1
78-P-9	MECHANICAL ROOM 116	5,7	208/3/60	9.8	15		2						VFD							26	3-#12, 1-#12G. IN 3/4" C.	PANEL IMCE1
78-P-10	MECHANICAL ROOM 116	2	208/3/60	21.8	40		5						FVNR	0	X		30	X	X	26	3-#6, 1-#10G. IN 3/4" C.	MCC2
78-MV1.1	MECHANICAL PENTHOUSE		208/3/60	17.6	30		(2) 2					23								23	3-#10, 1#10G. IN 3/4" C.	4LN1-13,15,17
78-SSIU1	DATA ROOM 225A		208/1/60	0.4	15					X		26									2-#12, 1-#12G. IN 3/4" C.	2LE1-10,12
78-SSIU2	LOW VOLTAGE 225B	8	208/1/60	0.4	15					X		26									2-#10, 1-#10ZG. IN 3/4" C.	SUBFEED FROM 78-SSOU2
78-SSOU1	EXTERIOR ON GRADE	3,4	208/1/60	16.5	20				30A/20A/3P			26									2-#12, 1-#12G. IN 3/4" C.	EXTERIOR EMERGENCY PANEL
78-SSOU2	EXTERIOR ON GRADE	3,4,8	208/1/60	16.5	20				30A/20A/3P			26									2-#12, 1-#12G. IN 3/4" C.	EXTERIOR EMERGENCY PANEL

SCHEDULE NOTES:
1. PROVIDE NEW CIRCUIT BREAKER AS SCHEDULED ABOVE IN EXISTING MCC BUCKET MADE SPARE THROUGH DEMOLITION OF CORRESPONDING PUMP. MATCH EXISTING MCC TYPE AND AIC RATING. ENSURE NEW CIRCUIT BREAKER FITS SEAMLESSLY INTO EXISTING MCC BUCKET.
2. PROVIDE NEW STARTER IN EXISTING MCC2. MATCH EXISTING MCC TYPE. ENSURE STARTER EQUIPMENT FITS SEAMLESSLY INTO EXISTING MCC BUCKET.
3. PROVIDE NEW CIRCUIT BREAKER AS SCHEDULED ABOVE IN EXTERIOR EMERGENCY PANEL LOCATED ADJACENT TO UNITS. MATCH EXISTING PANEL TYPE AND AIC RATING.
4. FUSED DISCONNECT SWITCH SHALL BE LOCATED LOCAL TO EXTERIOR OUTSIDE UNIT. PROVIDE NEMA 3R ENCLOSURE FOR FUSED DISCONNECT SWITCH.
5. REUSE EXISTING 15-AMPS-POLE CIRCUIT BREAKER IN PANEL IMCE1 VACATED BY DEMOLISHED PUMP.
6. VFD SHALL BE INSTALLED IN ATTIC MECHANICAL ROOM. DISCONNECT SWITCH SHALL BE INSTALLED LOCAL TO UNIT FOR MAINTENANCE.
7. VFDs SHALL BE PROVIDED BY DIV. 23 AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE 2-#10 + 1=#10G. IN 3/4" C. FROM OUTDOOR UNIT TO INDOOR UNIT AND MANUAL MOTOR SWITCH AT INDOOR UNIT.

BID DOCUMENTS
FULLY SPRINKLERED

NO.	DESCRIPTION	DATE

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SDVOSB CVE

Drawing Title: ELECTRICAL SCHEDULES

Approved: Project Director

Project Title: RENOVATION OF CLC 2 AT THE BATH VA MEDICAL CENTER

Location: VAMC, BATH, NEW YORK

Date: 08-06-2015 Checked: MJR Drawn: DRR

Project Number: 528-A6-13-602

Building Number: BLDG. #78

Drawing Number: E603

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Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231