ELECTRICAL ABBREVIATIONS

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
COTR	CONTRACTING OFFICERS TECHNICAL REPRESENTATIVE
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
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMCP	EMERGENCY MONITORING CONTROL PANEL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
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
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
PT	POTENTIAL TRANSFORMER
PTRV	POWER TYPE ROOF VENTILATION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
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
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
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 – POWER PLAN

- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDERGROUND
- CONDUIT CONTINUATION
- BRANCH CIRCUIT HOMERUN
- DISTRIBUTION PANEL
- PANELBOARD
- ELECTRICAL CABINET
- JUNCTION BOX
- RECEPTACLE, DUPLEX
- RECEPTACLE, DUPLEX ON EMERGENCY POWER
- RECEPTACLE, DOUBLE DUPLEX
- RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
- RECEPTACLE, SPECIAL PURPOSE
  A = 120V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 5–20R.
  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 15–30R.
  H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15–60R.
  I = 208V, 50A, 1 PHASE, 2 POLE, 3W, NEMA 6–50R.
- RECEPTACLE, DUPLEX, IN FLUSH FLOOR BOX
- SPECIAL CONNECTION. FURNISH AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- MOTOR, SINGLE–PHASE
- MOTOR, THREE–PHASE
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- VARIABLE FREQUENCY DRIVE
- TIME CLOCK
- TS T — THERMOSTAT OR TEMPERATURE SENSOR: SEE MECHANICAL DRAWINGS FOR LOCATIONS FURNISH AND INSTALL BACKBOX AND 1"C TO ABOVE ACCESSIBLE CEILING. COORDINATE INSTALLATION WITH MECHANICAL
- $X — SWITCH
  F = FUSED SWITCH
  L = LOCK
  M = MANUAL MOTOR STARTING
  MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)
  PB= PUSH BUTTON STATION
  WP= WEATHER PROOF
  K = KEY OPERATED
  LM= LOW VOLTAGE MASTER
  MC= MOMENTARY CONTACT
  P = WITH PILOT LIGHT
  RC= REMOTE CONTROL
  X = EXPLOSION PROOF

SECURITY SYMBOLS – SECURITY PLAN

- CCTV — CLOSED CIRCUIT TELEVISION LINE = CCTV. MINIMUM 1" [25mm] CONDUIT
- KP — KEY PAD (WANDER PROTECTION SYSTEM)
- CR — CARD READER (FIPS 201)
- DC — DOOR CONTROLLER
- DP — DOOR POSITION SWITCH
- ML — MAGNETIC LOCK (WANDER PROTECTION SYSTEM)
- DB — DURESS BUTTON
- IP — IP FIXED CCTV CAMERA (BY OTHERS)
- MS — MOTION SENSOR
- RE — REQUEST TO EXIT
- WP — WANDER PREVENTION SERVER
- ES — ELECTRIC STRIKE
- EL — ELECTRIC LATCH

COMMUNICATIONS SYMBOLS – SYSTEM PLAN

- CATV — CABLE TELEVISION LINE = CATV
- FO — FIBEROPTICS LINE = FO
- T — TELEPHONE LINE = T
- X — OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION
  MTD 1'–6" [457mm] OR SAME AS ADJACENT ELECTRICAL RECEPTACLE.
  X= # OF DATA PORTS
- OUTLET, COMBINATION DATA/TELEPHONE, IN FLUSH FLOOR BOX
- OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS:
  J = JACK TYPE W = WALL TYPE, MTD 48" [1,218mm] AFF
- OUTLET; LETTER INDICATES AS FOLLOWS:
  A = AUDIO V = VIDEO I = INTERCOM
- 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) REF CAMERA SCHEDULE FOR MOUNTING HEIGHT
  M = MONITOR (CTTV SYSTEM) MTD. 60" AFF FOR WALL MOUNT MONITORS.

ELECTRICAL SYMBOLS – LIGHTING PLAN

- $X — SWITCH
  BLANK = SINGLE POLE
  3 = THREE–WAY
  D = DIMMER
  LV= LOW VOLTAGE
  LM= LOW VOLTAGE MASTER
  PB= PUSH BUTTON STATION
  T = TIMER OPERATED
  X = EXPLOSION PROOF
  2 = DOUBLE POLE
  4 = FOUR–WAY
  K = KEY OPERATED
  L = LOCK
  P = WITH PILOT LIGHT
  RC= REMOTE CONTROL
  WP= WEATHER PROOF
  Mo= OCCUPANCY SENSOR
  HP = HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS SIZED AS REQUIRED BY EQUIPMENT LABEL RATING.
- $OS — WALL OCCUPANCY SENSOR SWITCH WITH OVERRIDE
- OS — CEILING OCCUPANCY SENSOR
- X — UPPER CASE LETTER INDICATES FIXTURE TYPE.
  y — LOWER CASE LETTER INDICATES SWITCH CONTROL. TYPICAL FOR ALL FIXTURES.
- X y — LIGHT FIXTURE; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, WALL MOUNTED; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x4' [305x1220mm], STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE.
- X y — LIGHT FIXTURE, WALL MOUNTED FLUORESCENT WRAPAROUND/STRIP/INDUSTRIAL; LETTER INDICATES TYPE.
- EM X y — EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP; LETTER INDICATES TYPE. BATTERY CONNECTED TO LOCAL UNSWITCHED LIGHTING CIRCUIT. CONNECT FIXTURE FOR CONTINUOUS OPERATION AS NIGHT LIGHT, UON. 'EM' DESIGNATES FIXTURE TO BE SWITCHED WHERE INDICATED ON PLANS.
- EM X y — EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP; LETTER INDICATES TYPE. BATTERY CONNECTED TO LOCAL UNSWITCHED LIGHTING CIRCUIT. CONNECT FIXTURE FOR CONTINUOUS OPERATION AS NIGHT LIGHT, UON. 'EM' DESIGNATES FIXTURE TO BE SWITCHED WHERE INDICATED ON PLANS.
- WALL MOUNT EMERGENCY EXIT SIGN WITH BATTERY BACK–UP; SHADED QUARTER OF SYMBOL INDICATES LIGHTED 'EXIT' ON THAT FACE. ARROWS INDICATE LIGHTED DIRECTIONAL ARROW ON THAT FACE. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.
- CEILING MOUNT EMERGENCY EXIT SIGN WITH BATTERY BACK–UP; SHADED QUARTER OF SYMBOL INDICATES LIGHTED 'EXIT' ON THAT FACE. ARROWS INDICATE LIGHTED DIRECTIONAL ARROW ON THAT FACE. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.

NURSE CALL SYSTEM

- N NC — NURSE CONSOLE
- N CS — CONTROL STATION
- N SS — STAFF & DUTY STATION
- N DL — DOME LIGHT
- N PS — PILLOW SPEAKER
- N CC — CALL CORD
- N PC — PULL CORD STATION
- N PB — EMERGENCY PUSH BUTTON STATION

REFERENCES

- XX / X — MECHANICAL EQUIPMENT REFERENCE
- X — KEYED NOTE
- BREAK SYMBOL
- 1 — REVISION DELTA

GENERAL NOTES

A. ALL CONTRACT DOCUMENTS ARE PART OF THE ELECTRICAL WORK INSOFAR AS THEY APPLY, AS IF REFERRED TO IN FULL. SEE CONTRACT DOCUMENTS OF ALL OTHER DISCIPLINES FOR WORK TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR.

B. DO NOT SCALE ELECTRICAL DRAWINGS. DRAWINGS ARE MADE ON A SMALL SCALE, DEVICES AND EQUIPMENT ARE SHOWN IN THEIR APPROXIMATE LOCATION, UNLESS SPECIFICALLY DIMENSIONED. VERIFY ALL DIMENSIONS ON THE PROJECT. REFER TO CONTRACT DOCUMENTS OF ALL OTHER DISCIPLINES FOR DIMENSIONS.

C. MATERIALS, DIMENSIONS, WALL THICKNESS, ROUGH OPENINGS, PATTERNS, AND THE LIKE SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE COTR AND ENGINEER PRIOR TO COMMENCING WITH THE WORK.

D. PRIOR TO ROUGH–IN OF ANY ELECTRICAL EQUIPMENT THE CONTRACTOR SHALL COORDINATE WITH ALL CONSTRUCTION DOCUMENTS AND ALL OTHER TRADES TO PREVENT ANY INTERFERENCES. PREPARE COORDINATION DRAWINGS AS REQUIRED IN CONJUNCTION WITH OTHER TRADES TO PREVENT INTERFERENCES. ANY MODIFICATIONS TO WORK INSTALLED DUE TO LACK OF COORDINATION SHALL BE FULLY BORNE BY THE CONTRACTOR.

E. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS–BUILT DRAWINGS. AS–BUILT SET OF DRAWINGS SHALL BE UPDATED DAILY AND SHALL DOCUMENT THE ACTUAL INSTALLED CONDITION OF THE ENTIRE ELECTRICAL NSTALLATION. AS–BUILT SET OF DRAWINGS SHALL BE AVAILABLE AT ALL TIMES ON THE SITE FOR INSPECTION BY CODE OFFICIALS, OWNER, ARCHITECT, AND ENGINEER.

F. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.

G. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

H. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.

I. LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.

J. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH SINGLE POLE BRANCH CIRCUIT SHALL HAVE AN INDEPENDANT NEUTRAL. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

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

L. ALL ELECTRICAL WORK SHALL BE COMPLETED WITH ALL PROXIMATE ELECTRICAL CIRCUITS DE–ENERGIZED (I.E. A NEW BREAKER OR CIRCUIT CANNOT BE ADDED TO A PANEL UNLESS THE PANEL IS COMPLETELY DE–ENERGIZED), OR THE CONTRACTOR MUST COMPLY WITH NFPA 70E FOR WORK ON ENERGIZED SERVICE. THE VA WILL DETERMINE IF THE ELECTRICAL SERVICE CAN BE SHUTDOWN OR IT WILL HAVE TO BE WORKED HOT DEPENDING ON THE CRITICALITY OF THE AREA BEING AFFECTED. IF THE WORK MUST BE DONE WITH THE SERVICE LIVE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PROTECTIVE TOOLS, EQUIPMENT, AND CLOTHING, AND MUST FOLLOW THE JOB SPECIFIC WORK PLAN PREPARED BY THE VA. WORK THAT REQUIRES SHUTTING DOWN ELECTRICAL SERVICE MAY HAVE TO BE ACCOMPLISHED DURING OTHER THAN NORMAL DUTY HOURS.

M. ALL ELECTRICAL FEEDERS, POWER AND LIGHTING CONDUCTORS SHALL BE ROUTED IN CONDUIT. CONDUIT SIZE SHALL BE 3/4" MINIMUM.

N. EMERGENCY POWER ELECTRICAL DEVICES SHALL BE RED IN COLOR. NORMAL POWER ELECTRICAL DEVICES SHALL BE WHITE IN COLOR. DEVICE COVERPLATES IN FINISHED AREAS SHALL BE NYLON, WHITE IN COLOR. STAINLESS STEEL COVERPLATES SHALL BE INSTALLED IN ALL UTILITY AREAS. LABEL DEVICES PER VA STANDARDS.

O. VERIFY JUNCTION BOXES ARE ACCESSIBLE FROM ACCESSIBLE CEILINGS OR ARCHITECTURALLY NOTED ACCESS PANELS. DO NOT ADD ACCESS PANELS IN HARD CEILINGS.

ELECTRICAL DRAWING INDEX

BE0.1	ELECTRICAL LEGEND AND SYMBOLS
BE0.2	LIGHTING SCHEDULES AND WIRING DIAGRAMS
BE2.1	FIRST FLOOR POWER PLAN
BE2.2	SECOND FLOOR POWER PLAN
BE2.3	FIRST FLOOR LIGHTING PLAN
BE2.4	SECOND FLOOR LIGHTING PLAN
BE2.5	FIRST FLOOR MECHANICAL POWER PLAN
BE2.6	SECOND FLOOR MECHANICAL POWER PLAN
BE2.7	ROOF POWER PLAN
BE2.8	FIRST FLOOR TELECOMMUNICATION PLAN
BE2.9	SECOND FLOOR TELECOMMUNICATION PLAN
BE3.1	SINGLE LINE DIAGRAM AND SCHEDULES
BE3.2	TELECOMMUNICATION SCHEMATICS
BE4.1	ELECTRICAL DETAILS
BE4.2	TELECOMMUNICATION ROOM DETAILS

REVISIONS | DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP: PROFESSIONAL ENGINEER AMY K. DOCKTER 9201 STATE OF IDAHO

CAD FILE NAME: 531–319_BE01.DWG
XREF FILE NAME: 531–319_xB_30X42TLBK.DWG

DRAWING TITLE: ELECTRICAL LEGEND AND SYMBOLS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC NEW EXTENDED CARE UNIT BUILDING 'B' CLC

BUILDING NUMBER: 122 | CHECKED: AKD | DRAWN: CRP
LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011
PROJECT NO.: 531–319
DRAWING NO.: BE0.1
DWG 60 OF 78

DEPARTMENT OF VETERANS AFFAIRS

Username: dpirc
Dec 01, 2011 – 5:16pm
d:\2010\10101.d\Elec\02_Drawings\531-319_BE0.1.dwg

LIGHTING FIXTURE SCHEDULE NOTES

GENERAL NOTES:

A. MOUNTING HEIGHTS LISTED ON PLANS ARE TO BOTTOM OF FIXTURE, UNLESS OTHERWISE NOTED. FIXTURES STEM, CABLE AND CORD LENGTHS MAY NOT BE STANDARD AND MUST BE COORDINATED WITH LIGHT FIXTURE MANUFACTURER PRIOR TO ORDERING. COORDINATE WITH LIGHTING DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.

B. CONTRACTOR SHALL FURNISH (2) TWO ADDITIONAL EX1 AND EX2 TYPE EXIT SIGNS ABOVE AND BEYOND THOSE INDICATED ON THE PLANS TO ALLOW FOR REVISIONS DURING CONSTRUCTION. CONTRACTOR SHALL INCLUDE LABOR FOR INSTALLATION FOR EACH OF THESE FIXTURES. IF FIXTURES ARE NOT INSTALLED, THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER FOR STORAGE OF FIXTURES BY THE OWNER.

C. ALL EXIT SIGNS SHALL BE CIRCUITED TO EMERGENCY GENERATOR BACKED PANEL AND WIRED FOR CONTINUOUS USE.

D. CONTRACTOR SHALL FURNISH AND INSTALL ALL MOUNTING ACCESSORIES AND HARDWARE FOR LIGHT FIXTURES FOR AN ATTRACTIVE, CLEAN LOOKING INSTALLATION.

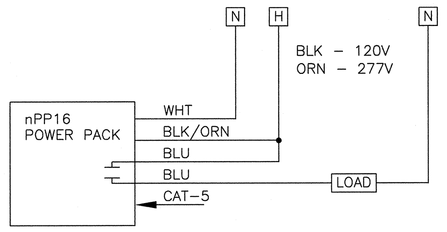
E. FURNISH AND INSTALL CONTROLS AS REQUIRED FOR ALL NEW INTERIOR AND EXTERIOR BUILDING LIGHT FIXTURES AS INDICATED ON DRAWINGS. WALLPLATES FOR ALL SWITCHES, DIMMER SWITCHES, WALL OCCUPANCY SENSORS SHALL BE STAINLESS STEEL WITH IVORY COLOR SWITCHES, UNLESS OTHERWISE NOTED.

NOTES:

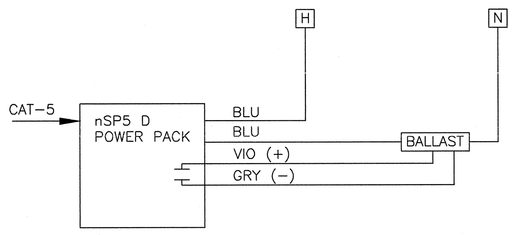
1. INSTALL WIRE GUARDS.
2. SEE DRAWINGS FOR LENGTH OF COMBINED FIXTURES TO BE INSTALLED IN A CONTINUOUS PATTERN. COORDINATE FINAL REQUIREMENTS WITH MANUFACTURER.
3. COORDINATE WITH ARCHITECTURAL MIRROR HEIGHTS PRIOR TO ROUGH-IN.
4. REFER TO LIGHTING PLANS FOR DIRECTIONAL INDICATORS, MOUNTING REQUIREMENTS AND FACE CONFIGURATION PRIOR TO ORDERING.
5. WALL MOUNT BOTTOM OF FIXTURE AT 8'-6" ABOVE FINISHED FLOOR OR LANDING IN STAIRWELLS AS INDICATED. COORDINATE WITH ARCHITECTURAL ELEVATIONS OF STAIRWELLS.
6. PROVIDE MOUNTING ACCESSORIES AND WIRE GUARD FOR EXPLOSION PROOF FIXTURE. SECURE AS REQUIRED.

LIGHT FIXTURE SCHEDULE

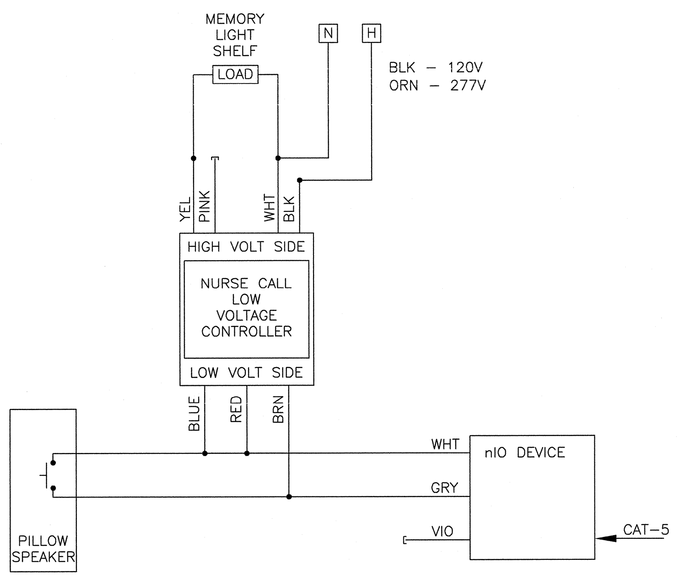
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	MOUNTING LOCATION	TYPE	HEIGHT	LAMP TYPE	FIXTURE VOLTAGE NO.	FIXTURE VOLTAGE	REMARKS
3A	LITHONIA	2SP G 2 32 MVOLT GEB10RS- 1 AND 2 LAMP BALLASTS FOR BI-LEVEL SWITCHING	CEILING	LAY-IN		F32T8/3000K	2	120	2 X 4 W/ ACRYLIC LENS
4D	LITHONIA	2AV G 3 32 MDR MVOLT GEB10RS- 1 AND 2 LAMP BALLASTS FOR BI-LEVEL SWITCHING	CEILING	LAY-IN		F32T8/3000K	3	120	2 X 4 DIRECT/INDIRECT
1E	WINONA LIGHTING	WSL 102 100 30K ND24V A SGW X STD	SOFFIT	SURFACE		LED 16.2/3000K	1	24	4' (VERIFY RUN LENGTHS) - SEE DWGS.
2E	LITHONIA	LA 2 32 MVOLT GEB10IS WGL	CEILING	SURFACE		F32T8/3000K	2	120	4' - 2 LAMP STRIP FIXTURE
3E	LITHONIA	TLA 2 32 MVOLT GEB10IS WGL	CEILING	SURFACE		F32T8/3000K	4	120	8' - 2 LAMP STRIP FIXTURE
1F	KENALL	AUCLED I MW 18L30K 120	UNDER CAB. HARDWIRED	SURFACE		LED 18W 3000K	1	120	24" UNDERCABINET FIXTURE
2F	KENALL	MAUCLED I MW 36L30K 121	UNDER MEMORY SHELF HARDWIRED	SURFACE		LED 36W 3000K	1	120	46" UNDER MEMORY SHELF
1G	LITHONIA	LB 2 32 MVOLT GEB10RS	CEILING	SURFACE		F32T8/ 3000K	2	120	SURFACE MT'D WRAP FIXTURE
1H	GOTHAM	ALED 30/18 6 AR 120	CEILING	RECESSED		LED 38/3000K	1	120	DOWNLIGHT - LED
2H	GOTHAM	ALED 30/14 6 AR 120	CEILING	RECESSED		LED 30/3000K	1	120	DOWNLIGHT - LED
3H	GOTHAM	ALED 30/22 8 AR 120	CEILING	RECESSED		LED 38/3000K	1	120	DOWNLIGHT - LED
4H	GOTHAM	ALED 30/10 6 DFR 120	CEILING	RECESSED		LED 44/3000K	1	120	DOWNLIGHT WET LOCATION- LED
5H	GOTHAM	ALEDW 30/14 4 AR 120	CEILING	RECESSED		LED 28.7/3000K	1	120	DOWNLIGHT WALLWASH- LED
6H	GOTHAM	ALED 41/14 6 AR LD 120	CEILING	RECESSED		LED 30W/4100K	1	120	EXTERIOR DOWNLIGHT - LED
7H	GOTHAM	CLED8 41/14 6 AR LD MVOLT FCM	CEILING	SURFACE		LED 28W/4100K	1	120	EXTERIOR DOWNLIGHT - LED
8H	GOTHAM	ALED 41/18 6 AR LD 120	CEILING	RECESSED		LED 38W/4100K	1	120	EXTERIOR DOWNLIGHT - LED
1L	HUBBARDTON FORGE	TRYNE 124412E G47 OPAL GLASS	CEILING SEMI-FLUSH	SURFACE		F40T9/ 3000K	1	120	DECORATIVE FIXTURE
2L	HUBBARDTON FORGE/FANIMATION	HF6600BZ BRONZE COFFEE OPAL WITH FLUORESCENT OPTION IF AVAILABLE	CEILING	SURFACE	FAN W/ 12" DOWNROD	F40T9/ 3000K	1	120	DECORATIVE FAN FIXTURE
3L	KICHLER	ANSONIA 5446N1 WALL MOUNT 1 LT BRUSHED NICKEL	WALL	SURFACE	8'-0" AFF	CFL 13/ 3000K	1	120	WALL SCONCE
4L	KICHLER	ANSONIA 5448N1 WALL MOUNT 3 LT BRUSHED NICKEL	WALL	SURFACE	8'-0" AFF	CFL 13/ 3000K	3	120	WALL SCONCE
5L	SHAPER FABRIQUE	105-P1S-CYS-CFL/1/13-120V-OCP (OXIDIZED COPPER) NFX MOD (NATURAL FLAX)-TC	CEILING	SURFACE	7'-6" AFF	CFL 18/ 3000K	2	120	DECORATIVE SM PENDANT FIXTURE
6L	SHAPER FABRIQUE	101 48 P-2S T5/2/28 120V OCP (OXIDIZED COPPER) NFX MOD (NATURAL FLAX) DMA10-TC-54"	CEILING	SURFACE	7'-0" AFF	CFL 18/3000K	2	120	DECORATIVE LG PENDANT FIXTURE
7L	SHAPER FABRIQUE	104 CFL/2/13 120V OCP (OXIDIZED COPPER) NFX MOD (NATURAL FLAX) TC RNT	WALL	SURFACE	7'-0" AFF	CFL 13/3000K	2	120	SQUARE SCONCE
8L	SHAPER FABRIQUE	103 CFL/2/18 120V (OXIDIZED COPPER) NFX MOD (NATURAL FLAX) TC	WALL	SURFACE	7'-0" AFF	CFL 18/ 3000K	2	120	RECTANGULAR SCONCE
9L	KENALL	MSLS S 0 MW CP ALL 120	WALL	RECESSED	12" AFF	LED .55W/4100K	3	120	WALL NIGHT LIGHT
1M	LITHONIA	OLW14 5470 WITH INTEGRAL PHOTOCELL	EXTERIOR WALL	SURFACE		LED 26.45W/5470K		277	EXTERIOR ACCENT LIGHT
1X	LITHONIA	LE S 1 R 120/277 EL N SD	CEILING	SURFACE		LED		120	DIRECTIONAL ARROWS
2X	LITHONIA	LE S 2 R 120/277 EL N SD	CEILING	SURFACE		LED		120	DIRECTIONAL ARROWS



1 SWITCH POWER-RELAY PACK WIRING DIAGRAM
SCALE NONE



2 SWITCH SECONDARY RELAY PACK WITH DIMMING WIRING DIAGRAM
SCALE NONE



3 PILLOW SPEAKER-LIGHT SWITCH INTERFACE WIRING DIAGRAM
SCALE NONE

OCCUPANCY SENSOR SCHEDULE

SENSOR	DESCRIPTION	TIME DELAY	POWER	MANUFACTURER	LOCATION
WALL SWITCH	DUAL TECHNOLOGY, LINE VOLTAGE	10 MINUTES	NO MINIMUM LOAD 120/277VAC	SENSOR SWITCH WSD-PDT 120-277VAC WHITE	SUPPORT ROOMS
CEILING	DUAL TECHNOLOGY, LINE VOLTAGE	10 MINUTES	NO MINIMUM LOAD 120/277VAC	SENSOR SWITCH CMR-PDT-2P 120-277VAC WHITE	OFFICE

CONTRACTOR MAY PROVIDE SENSORS EQUAL TO THOSE SPECIFIED. SUBSTITUTED SENSORS MUST MATCH SPECIFIED SENSOR IN APPEARANCE SIZE, QUALITY AND PERFORMANCE.
FURNISH AND INSTALL SENSORS PER MANUFACTURERS RECOMMENDATIONS AND PROVIDE WIRING TO CONTROL RELAYS REQUIRED FOR STEP DIMMING (BI-LEVEL) SWITCHING.

SWITCH SCHEDULE

SWITCH DESIGNATION	POWER CIRCUIT	TENANT BEDROOM AND BATHROOM LIGHTS CONTROLLED	FUNCTION	MANUFACTURER
SLVa SLVb	NORMAL EMERGENCY	ENTRY SCONCE NIGHT LIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVDc	NORMAL	BEDROOM DOWNLIGHTS	0-10V DIMMING	SENSOR SWITCH (1) nPODM-1P-DX-WH-MED-WH (1) RELAY POWER PACK nSP5 D
SLVd SLVe	NORMAL	BATHROOM VANITY LIGHT BATHROOM OVERHEAD DOWNLIGHT BATHROOM OVERHEAD SHOWER DOWNLIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVf SLVg	EMERGENCY NORMAL	BEDROOM EMERGENCY DOWNLIGHT MEMORY LIGHT SHELF	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16

CONTRACTOR MAY PROVIDE SWITCHES AND RELAY POWER PACKS EQUAL TO THOSE SPECIFIED. SUBSTITUTED SENSORS MUST MATCH SPECIFIED SENSOR IN APPEARANCE SIZE, QUALITY AND PERFORMANCE.

CONTRACTOR MAY PROVIDE FIXTURES EQUAL TO THOSE SPECIFIED. SUBSTITUTED FIXTURES MUST MATCH SPECIFIED FIXTURE IN APPEARANCE, SIZE, QUALITY AND PERFORMANCE. ALL FIXTURES SHALL BE SUBJECT TO REVIEW BY ARCHITECT AND ENGINEER AT TIME OF LIGHTING FIXTURE SUBMITTALS. CONTRACTOR SHALL PROVIDE FIXTURES INDICATED ON SCHEDULE FOR ANY FIXTURES DEEMED NOT EQUAL BY THE ENGINEER.

Username:ddric
Dec 01, 2011 - 5:16pm
Q:\2010\10101.01\Elec\02_Drawings\531-319_BE0.2.dwg

REVISIONS | DATE

CSHQA
C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright©2011

STAMP
PROFESSIONAL ENGINEER REGISTERED 9201 12-1-11 STATE OF IDAHO AMY K. DOCKTER

CAD FILE NAME: 531-319_xB_BE02.DWG
XREF FILE NAME: 531-319_xB_30X42TLBK.DWG

DRAWING TITLE: LIGHTING SCHEDULES AND WIRING DIAGRAMS

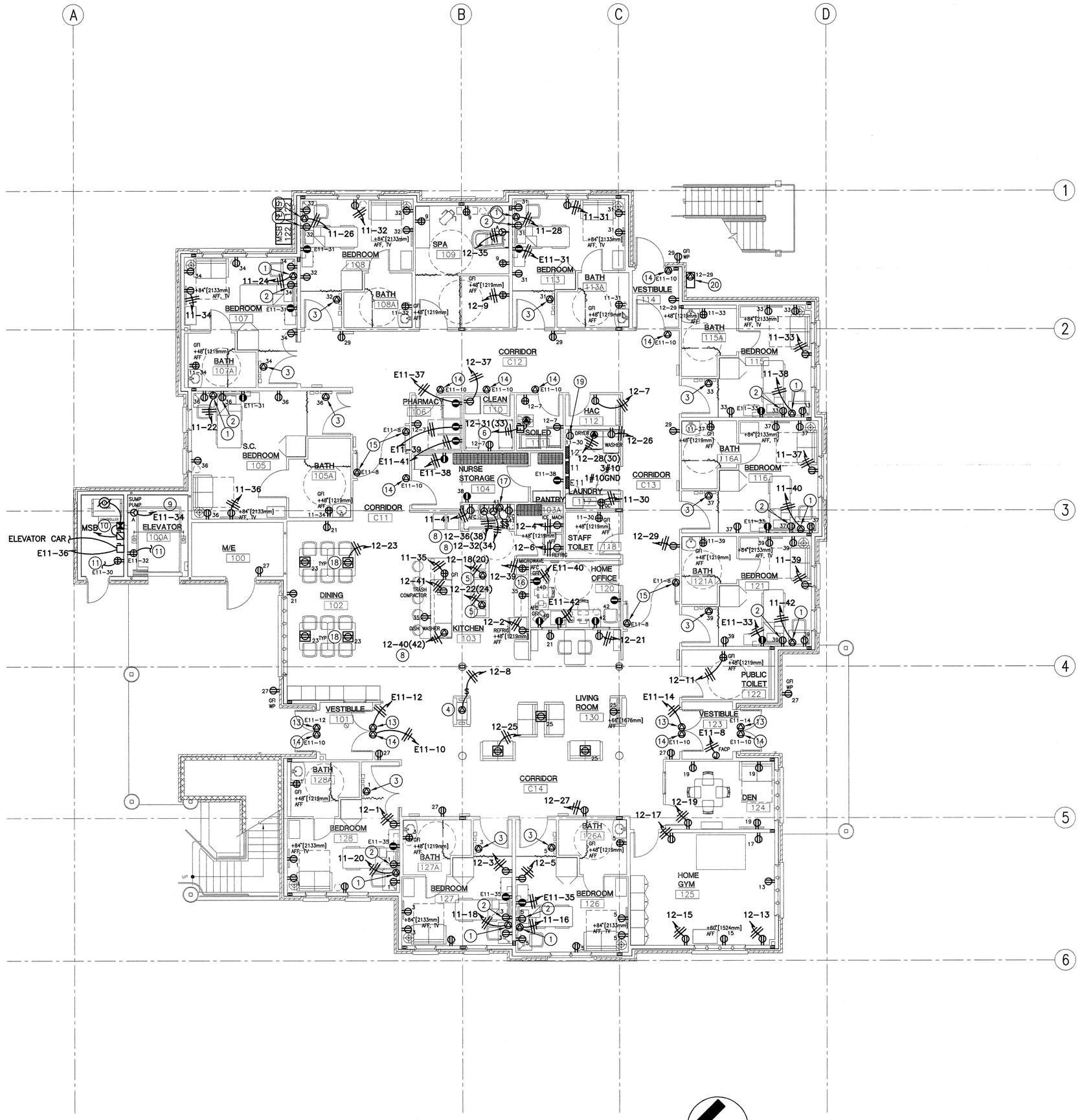
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC NEW EXTENDED CARE UNIT BUILDING 'B' CLC

BUILDING NUMBER: 122 | CHECKED: AKD | DRAWN: CRP
LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011
PROJECT NO. 531-319
DRAWING NO. BE0.2
DWG 61 OF 78

DEPARTMENT OF VETERANS AFFAIRS



1 FIRST FLOOR POWER PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES:

A. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

C. PROVIDE POWER RELAYS, LOW VOLTAGE TRANSFORMERS, SECURITY CONDUITS AND JUNCTION BOXES AS REQUIRED FOR SECURITY SYSTEM CONNECTIONS. SECURITY SYSTEM CABLING AND EQUIPMENT BY OTHERS. COORDINATE ELECTRICAL REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE, ARCHITECT, SECURITY SYSTEM PROVIDER AND OWNERS AGENT. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. COORDINATE MOUNTING HEIGHTS AND ORIENTATION OF DEVICES IN MILLWORK WITH ARCHITECTURAL ELEVATIONS.

SHEET NOTES:

1. WALL MOUNTED LOW VOLTAGE CHARGER FOR LIKORAIL SYSTEM. MOUNT AT +48"[1219mm] AFF. VERIFY POWER AND MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
2. RECEPTACLE FOR MEDICAL SURGERY BED. COORDINATE MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
3. MEDICATION STATION. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER FOR INTEGRAL LIGHTING.
4. FIREPLACE CONNECTION. FURNISH AND INSTALL SWITCH FOR CONTROL. COORDINATE WITH MANUFACTURER FOR CONNECTION REQUIREMENTS.
5. FOOD WARMER CONNECTION LOCATED AT CEILING. FURNISH AND INSTALL NEMA L6-20R, TWIST LOCK RECEPTACLE, IN RECESSED CEILING MOUNTED JUNCTION BOX, WITH RECEPTACLE FLUSH WITH FINISHED CEILING. FURNISH A 6 FOOT CORD DROP WITH TWIST LOCK PLUG AND NEMA 6-20R RECEPTACLE ADAPTER FOR CONNECTION FROM CEILING RECEPTACLE TO EQUIPMENT. VERIFY FINAL RECEPTACLE REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
6. NEMA 3R/3Q/2P FUSED DISCONNECT WITH 6 AMP FUSES FOR VERNA CARE MACERATOR. VERIFY FINAL EQUIPMENT CONNECTION REQUIREMENTS WITH MANUFACTURER.
7. NOT USED
8. FURNISH AND INSTALL 3/4" CONDUIT WITH #8 CONDUCTORS AND #10 GROUND FOR 50 AMP RATED EQUIPMENT.
9. ALL ELECTRIC IN THE ELEVATOR PIT BELOW THE LEVEL OF THE FIRST LANDING SHALL BE NEMA 4 APPROVED. ANSI A17.1-2.8.2.3.4.
10. SEE SINGLE-LINE DIAGRAM SHEET E3.1 FOR ELEVATOR POWER FEEDER SPECIFICS.
11. CONNECT TO HOT CIRCUIT AHEAD OF LIGHT SWITCH. SEE SHEET BE2.3 FOR CONTINUATION.
13. MOTORIZED DOOR OPERATOR. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT INSTALLER. FURNISH AND INSTALL ELECTRICAL AS NEEDED FOR OPERATIONAL SYSTEM.
14. DOOR SECURITY SYSTEM. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT INSTALLER. FURNISH AND INSTALL ELECTRICAL AS NEEDED FOR OPERATIONAL SYSTEM.
15. DOOR HOLD OPEN. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT INSTALLER. FURNISH AND INSTALL ELECTRICAL AS NEEDED FOR OPERATIONAL SYSTEM.
16. MICROWAVE. PROVIDE ELECTRICAL OUTLET RECESSED INTO WALL FOR MICROWAVE CW/ ARCHITECTURAL.
17. CONNECTION FOR HOOD. FURNISH AND INSTALL SWITCHES FOR FAN AND LIGHT CONTROLS. MOUNT IN FACE OF MILLWORK. COORDINATE LOCATION AND REQUIREMENTS WITH ARCHITECTURAL ELEVATIONS.
18. TOP OF RECESSED FLOOR BOXES SHALL BE FLUSH MOUNTED WITH FINISHED FLOOR (SHEET VINYL FLOORING). COORDINATE WITH TELECOMMUNICATIONS FOR DATA OUTLETS.
19. DRYER BOOST FAN (DBF). PROVIDE RECEPTACLE IN ATTIC ADJACENT TO DBF. COORDINATE REQUIREMENTS WITH DBF INSTALLER.
20. IRRIGATION CONTROLLER. PROVIDE ELECTRICAL BOX FLUSH IN WALL. COORDINATE REQUIREMENTS WITH IRRIGATION CONTROLLER INSTALLER.

REVISIONS | DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP

PROFESSIONAL ENGINEER
REGISTERED
9201
12-1-11
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME: 531-319_xB_BE21.DWG

XREF FILE NAME: 531-319_xB_30X42TLBK.DWG
531-319_xB_Base1.DWG
531-319_xB_Panel1.DWG

DRAWING TITLE: FIRST FLOOR POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC NEW EXTENDED CARE UNIT BUILDING 'B' CLC

BUILDING NUMBER: 122 | CHECKED: AKD | DRAWN: CRP

LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011

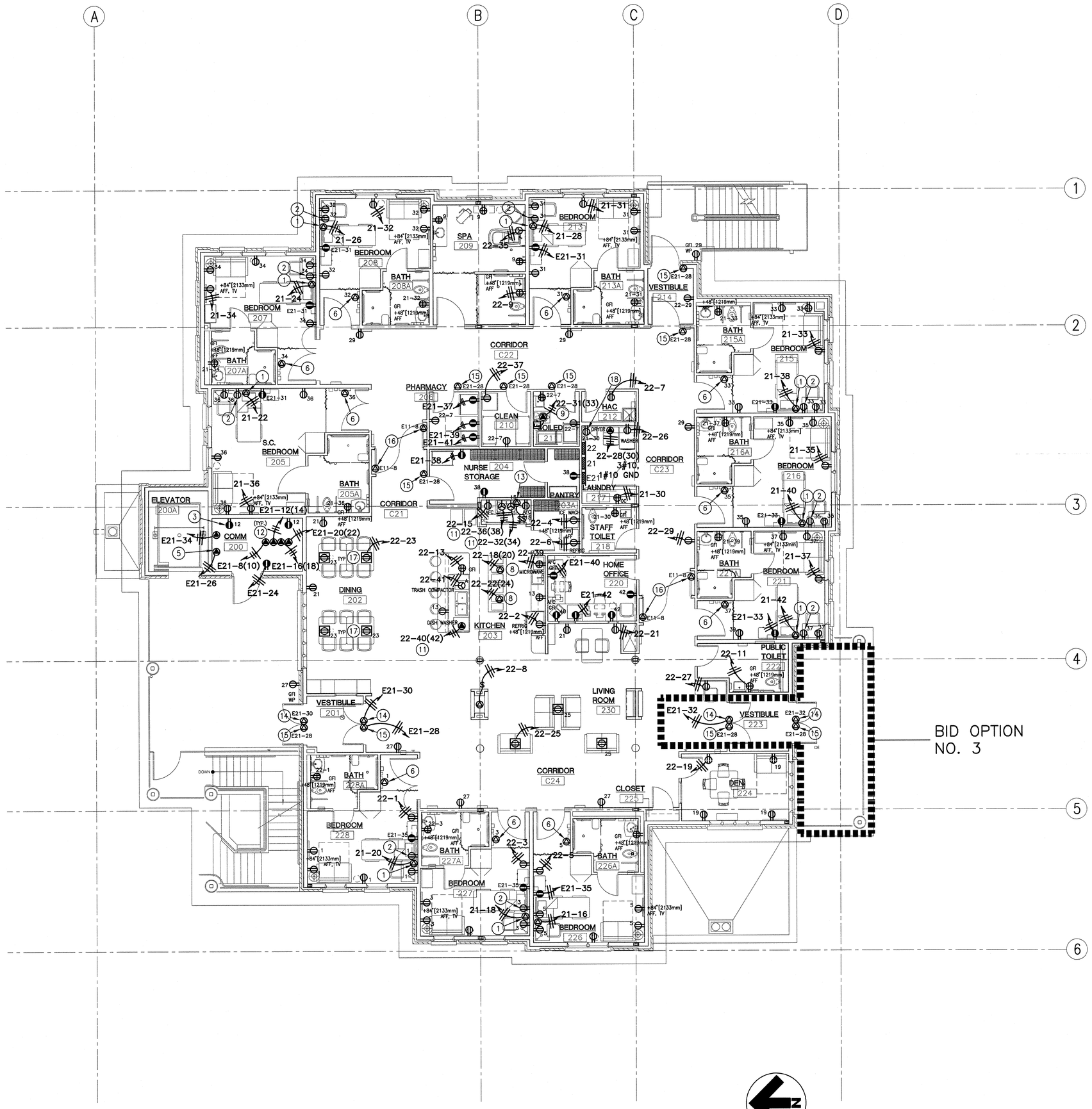
PROJECT NO.: 531-319

DRAWING NO.: BE2.1

DWG 62 OF 78

DEPARTMENT OF VETERANS AFFAIRS

Username: dpirc
Dec 01, 2011 - 5:17pm
Q:\2010\10101.01\Bae\02_Drawings\531-319_BE2.1.dwg



1 SECOND FLOOR POWER PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

PROJECT NORTH

GENERAL NOTES:

A. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

C. PROVIDE POWER RELAYS, LOW VOLTAGE TRANSFORMERS, SECURITY CONDUITS AND JUNCTION BOXES AS REQUIRED FOR SECURITY SYSTEM CONNECTIONS. SECURITY SYSTEM CABLING AND EQUIPMENT BY OTHERS. COORDINATE ELECTRICAL REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE, ARCHITECT, SECURITY SYSTEM PROVIDER AND OWNERS AGENT. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURER'S RECOMMENDATIONS.

G. COORDINATE MOUNTING HEIGHTS AND ORIENTATION OF DEVICES IN MILLWORK WITH ARCHITECTURAL ELEVATIONS.

SHEET NOTES:

1. WALL MOUNTED LOW VOLTAGE CHARGER FOR LIKORAIL SYSTEM. MOUNT AT +48"[1219mm] AFF. VERIFY POWER AND MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
2. RECEPTACLE FOR MEDICAL SURGERY BED. COORDINATE MOUNTING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
3. COORDINATE ALL MOUNTING LOCATIONS AND HEIGHTS OF RECEPTACLES IN THIS ROOM WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO ROUGH-IN.
4. DEDICATED 208V/1P, NEMA L6-30R FOR EQUIPMENT RACK UPS 'A' & 'B'. VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. FURNISH AND INSTALL 3/4"C WITH #10 CONDUCTORS.
5. DEDICATED 120V/1P CIRCUIT FOR ACCESS CONTROL POWER SUPPLY. VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN.
6. MEDICATION STATION. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER FOR INTEGRAL LIGHTING.
7. FIREPLACE CONNECTION. FURNISH AND INSTALL SWITCH FOR CONTROL. COORDINATE WITH MANUFACTURER FOR CONNECTION REQUIREMENTS.
8. FOOD WARMER CONNECTION LOCATED AT CEILING. FURNISH AND INSTALL NEMA L6-20R, TWIST LOCK RECEPTACLE, IN RECESSED CEILING MOUNTED JUNCTION BOX, WITH RECEPTACLE FLUSH WITH FINISHED CEILING. FURNISH A 6 FOOT CORD DROP WITH TWIST LOCK PLUG AND NEMA 6-20R RECEPTACLE ADAPTER FOR CONNECTION FROM CEILING RECEPTACLE TO EQUIPMENT. VERIFY FINAL RECEPTACLE REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
9. NEMA 3R/30/2P FUSED DISCONNECT WITH 6 AMP FUSES FOR VERNA CARE MACERATOR. VERIFY FINAL EQUIPMENT CONNECTION REQUIREMENTS WITH MANUFACTURER.
10. NEMA 6-20R RECEPTACLE FOR FOOD WARMERS. MOUNT RECEPTACLE AT +48"[1219mm] AFF.
11. FURNISH AND INSTALL 3/4" CONDUIT WITH #8 CONDUCTORS AND #10 GROUND FOR 50 AMP RATED EQUIPMENT.
12. FURNISH AND INSTALL NEMA L6-30R, TWIST LOCK RECEPTACLE FOR EACH UPS. COORDINATE LOCATION IN RACK WITH TELECOMMUNICATION PLANS.
13. CONNECTION FOR HOOD. FURNISH AND INSTALL SWITCHES FOR FAN AND LIGHT CONTROLS. MOUNT IN FACE OF MILLWORK. COORDINATE LOCATION AND REQUIREMENTS WITH ARCHITECTURAL ELEVATIONS.
14. MOTORIZED DOOR OPERATOR. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT INSTALLER. FURNISH AND INSTALL ELECTRICAL AS NEEDED FOR OPERATIONAL SYSTEM.
15. DOOR SECURITY SYSTEM. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT INSTALLER. FURNISH AND INSTALL ELECTRICAL AS NEEDED FOR OPERATIONAL SYSTEM.
16. DOOR HOLD OPEN. COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT INSTALLER. FURNISH AND INSTALL ELECTRICAL AS NEEDED FOR OPERATIONAL SYSTEM.
17. TOP OF RECESSED FLOOR BOXES SHALL BE FLUSH MOUNTED WITH FINISHED FLOOR (SHEET VINYL FLOORING). COORDINATE WITH TELECOMMUNICATIONS FOR DATA OUTLETS.
18. DRYER BOOST FAN (DBF). PROVIDE RECEPTACLE IN ATTIC ADJACENT TO DBF. COORDINATE REQUIREMENTS WITH DBF INSTALLER.

REVISIONS	DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT BY OTHERS WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright©2011

STAMP

PROFESSIONAL ENGINEER REGISTERED 201 12-1-11 STATE OF IDAHO AMY K. DOCKTER

CAD FILE NAME: 531-319_xB_BE22.DWG

XREF FILE NAME: 531-319_xB_30X42TLBK.DWG 531-319_xB_Base2.DWG 531-319_xB_Panel2.DWG

DRAWING TITLE: SECOND FLOOR POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC NEW EXTENDED CARE UNIT BUILDING 'B' CLC

BUILDING NUMBER: 122 | CHECKED: AKD | DRAWN: CRP

LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011

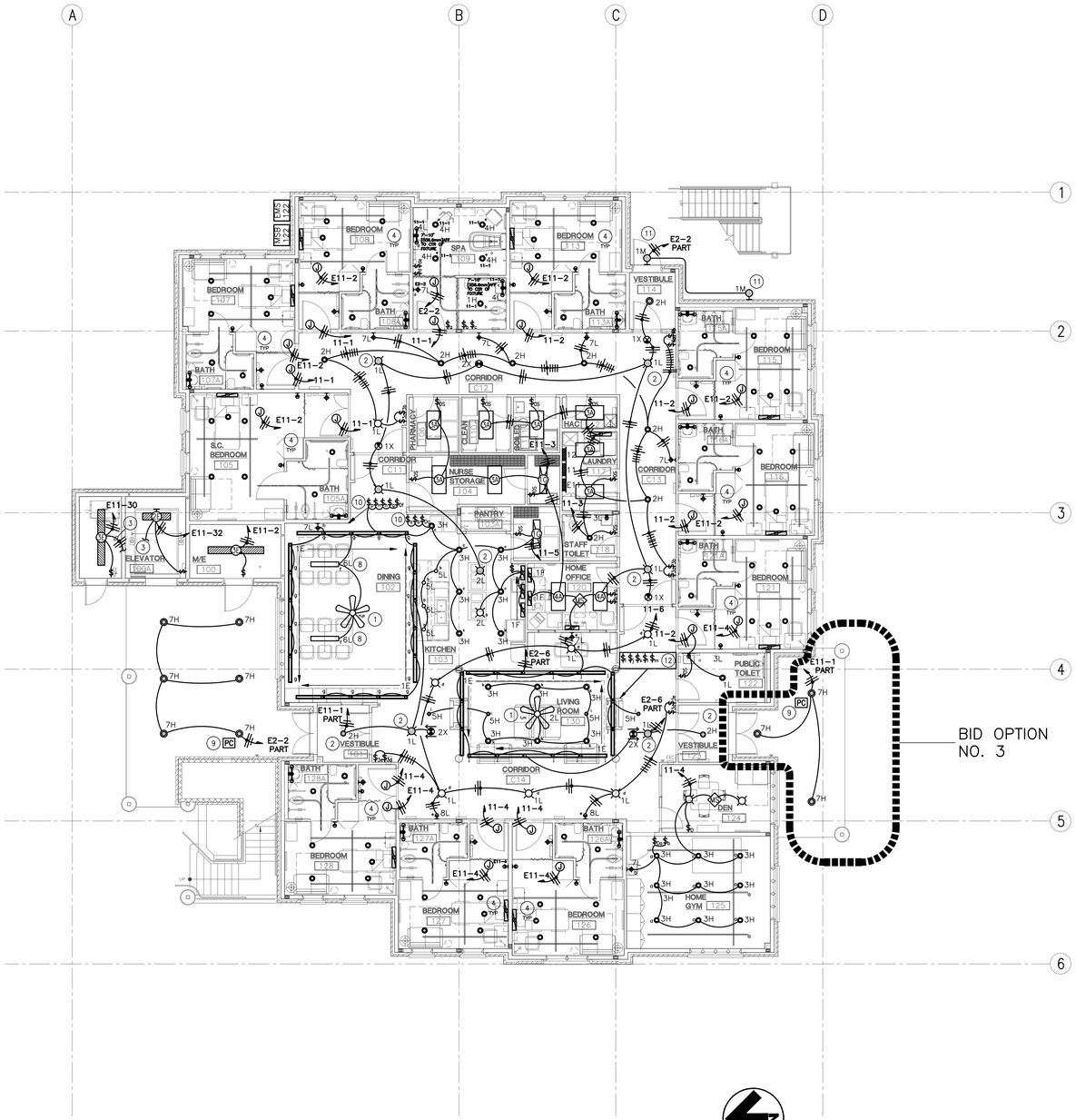
PROJECT NO.: 531-319

DRAWING NO.: BE2.2

DWG 63 OF 78

DEPARTMENT OF VETERANS AFFAIRS

Username:dpirc
Dec 01, 2011 - 5:17pm
Q:\2010\10101.0\Elec\02_Drawings\531-319_BE2.2.dwg

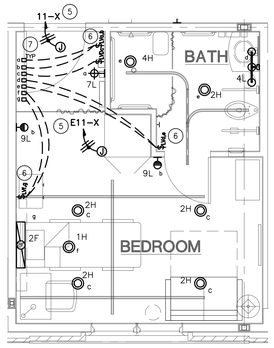


1 FIRST FLOOR LIGHTING PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

PROJECT NORTH



CONTRACTOR TO MOCK-UP FIRST BEDROOM AND BATH, COORDINATING WITH OWNER THE LIGHTING AND SWITCHING PRIOR TO ROUGH-IN AND INSTALLATION OF REMAINING BEDROOMS AND BATHS.

2 TYPICAL ENLARGED BEDROOM AND BATH LIGHTING PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES:

A. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

B. SHADED FIXTURE SHALL BE ON EMERGENCY CIRCUIT/NIGHTLIGHT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

C. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

ROOMS WHERE EMERGENCY LIGHT FIXTURES CIRCUITED TO EMERGENCY GENERATED PANEL AND LIGHT FIXTURES CIRCUITED TO NORMAL POWER PANEL SHALL BE CONTROLLED WITH WALL SWITCHES AS INDICATED. CONTRACTOR SHALL MAINTAIN CONTINUITY OF SEPARATE PANEL CIRCUITS AS SWITCH WIRING IS INSTALLED.

D. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

E. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

F. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

G. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH OTHER TRADES.

H. FURNISH AND INSTALL (1) 3/4"C WITH PLASTIC BUSHING AND PULL STRING FROM EACH LOW VOLTAGE LIGHTING CONTROL SWITCH TO ACCESSIBLE SPACE ABOVE CEILING FOR LOW VOLTAGE RELAY WIRING.

COORDINATE PRIOR TO ROUGH-IN FINAL LOCATION OF LIGHT SWITCHES WITH COTR.

SHEET NOTES:

1. FAN LIGHT. PROVIDE SEPERATE SWITCHING FOR OPERATION OF FAN AND LIGHT FIXTURE.
2. NIGHT LIGHT. WIRE FOR CONTINUOUS OPERATION.
3. FOR CONTINUATION OF CIRCUIT SEE POWER PLAN BE2.1.
4. SEE ENLARGED LIGHTING PLAN THIS SHEET BE2.3/2 FOR LIGHTING REQUIREMENTS.
5. SEE INDIVIDUAL BEDROOMS FOR CIRCUIT DESIGNATIONS THIS SHEET BE2.3/1.
6. FOR LOW VOLTAGE SWITCHING REQUIREMENTS IN TENANT BEDROOMS AND BATHROOMS, SEE SWITCH SCHEDULE SHEET BE0.2 ALL CAT-5 CABLING SHALL BE TESTED PRIOR TO INSTALLATION. PROVIDE A COMPLETE AND OPERATIONAL SWITCHING SYSTEM.
7. MOUNT LOW VOLTAGE RELAY POWER PACKS IN ACCESSIBLE CEILING AT ENTRY OF EACH ROOM. COORDINATE WITH MECHANICAL EQUIPMENT TO AVOID ANY INTERFERANCES.
8. PRIOR TO ROUGH-IN, COORDINATE LIGHT FIXTURE LOCATION CENTERED OVER DINING ROOM TABLE WITH BOTTOM OF FIXTURE AT 6'-0" AFF.
9. FURNISH AND INSTALL INTERMATIC K4021C PHOTOCELL CONTROL UNDER CANOPY FOR CONTROL OF LIGHT FIXTURE.
10. PROVIDE SYNERGY LIGHTING CONTROL DIMMER SWITCH ISD BC 120/277/WH OR EQUAL TO CONTROL FIXTURES INDICATED.
11. EXTERIOR MOUNTED LIGHTING FIXTURE. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
12. LIGHT SWITCHES SHALL BE MOUNTED AT END OF MILLWORK. COORDINATE LOCATION WITH COTR. SEE ARCHITECTURAL ELEVATIONS.

BEDROOM SWITCH SCHEDULE

SWITCH DESIGNATION	POWER CIRCUIT	TENANT BEDROOM AND BATHROOM LIGHTS CONTROLLED	FUNCTION	MANUFACTURER
SLVa SLVb	NORMAL EMERGENCY	ENTRY SCONCE NIGHT LIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVDc	NORMAL	BEDROOM DOWNLIGHTS	0-10V DIMMING	SENSOR SWITCH (1) nPODM-1P-DX-WH-MED-WH (1) RELAY POWER PACK nSP5 D
SLVd SLVe	NORMAL	BATHROOM VANITY LIGHT BATHROOM OVERHEAD DOWNLIGHT BATHROOM OVERHEAD SHOWER DOWNLIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVf SLVg	EMERGENCY NORMAL	BEDROOM EMERGENCY DOWNLIGHT MEMORY LIGHT SHELF	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH for SLVf and SLVg (1) RELAY POWER PACK Npp16 for SLVf nIO DEVICE FOR SLVg. SEE WIRING DIAGRAM THIS SHEET

CONTRACTOR MAY PROVIDE SWITCHES AND RELAY POWER PACKS EQUAL TO THOSE SPECIFIED. APPEARANCE SUBSTITUTED SENSORS MUST MATCH SPECIFIED SENSOR IN APPEARANCE, SIZE, QUALITY AND PERFORMANCE.

SWITCH SCHEDULE

SWITCH DESIGNATION	LIGHTS CONTROLLED	FUNCTION	SWITCH TYPE	NOTE
a	KITCHEN ISLAND	ON/OFF	MAINTAINED TOGGLE SWITCH	
b	KITCHEN COUNTER	ON/OFF	MAINTAINED TOGGLE SWITCH	
Dc	KITCHEN GENERAL	DIMMING	INCANDESCENT DIMMER	
d	CORRIDOR C14 CEILING	ON/OFF	MAINTAINED TOGGLE SWITCH	
e	CORRIDOR C14 SCONCES	ON/OFF	MAINTAINED TOGGLE SWITCH	
Df	DINING ROOM	STAND ALONE DIMMING SWITCH	WALL BOX BALLAST DIMMER	1
g	DINING ROOM SOFFIT	ON/OFF	MAINTAINED TOGGLE SWITCH	
h	DINING ROOM SCONCE	ON/OFF	MAINTAINED TOGGLE SWITCH	
i	WALL WASH	ON/OFF	MAINTAINED TOGGLE SWITCH	
j	LIVING ROOM COVE	ON/OFF	MAINTAINED TOGGLE SWITCH	
k	LIVING ROOM DOWNLIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	
l	LIVING ROOM FAN	ON/OFF	MAINTAINED TOGGLE SWITCH	
m	LIVING ROOM FAN LIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	
n	DINING ROOM FAN	ON/OFF	MAINTAINED TOGGLE SWITCH	
p	DINING ROOM FAN LIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	

NOTE:
1. PROVIDE DIRECT DIMMING AND SWITCHING CONTROL OF FLUORESCENT FIXTURE WITH SYNERGY ISB BC BALLAST CONTROLLER.

REVISIONS | DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT BY OTHERS WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright 2011

STAMP

PROFESSIONAL ENGINEER 9201 STATE OF IDAHO AMY K. DOCKTER 5-23-12

CAD FILE NAME: 531-319_BE2.3.DWG

XREF FILE NAME: 531-319_xB_30X42TLBK.DWG 531-319_xB_Base1.DWG 531-319_xB_Lighting1.DWG 531-319_xB_Panel1.DWG

DRAWING TITLE: FIRST FLOOR LIGHTING PLAN

PROJECT TITLE: BOISE VAMC NEW EXTENDED CARE UNIT BUILDING 'B' CLC

DATE: 12/01/2011

PROJECT NO. 531-319

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

BUILDING NUMBER 122 | CHECKED AKD | DRAWN JCG

DRAWING NO. BE2.3

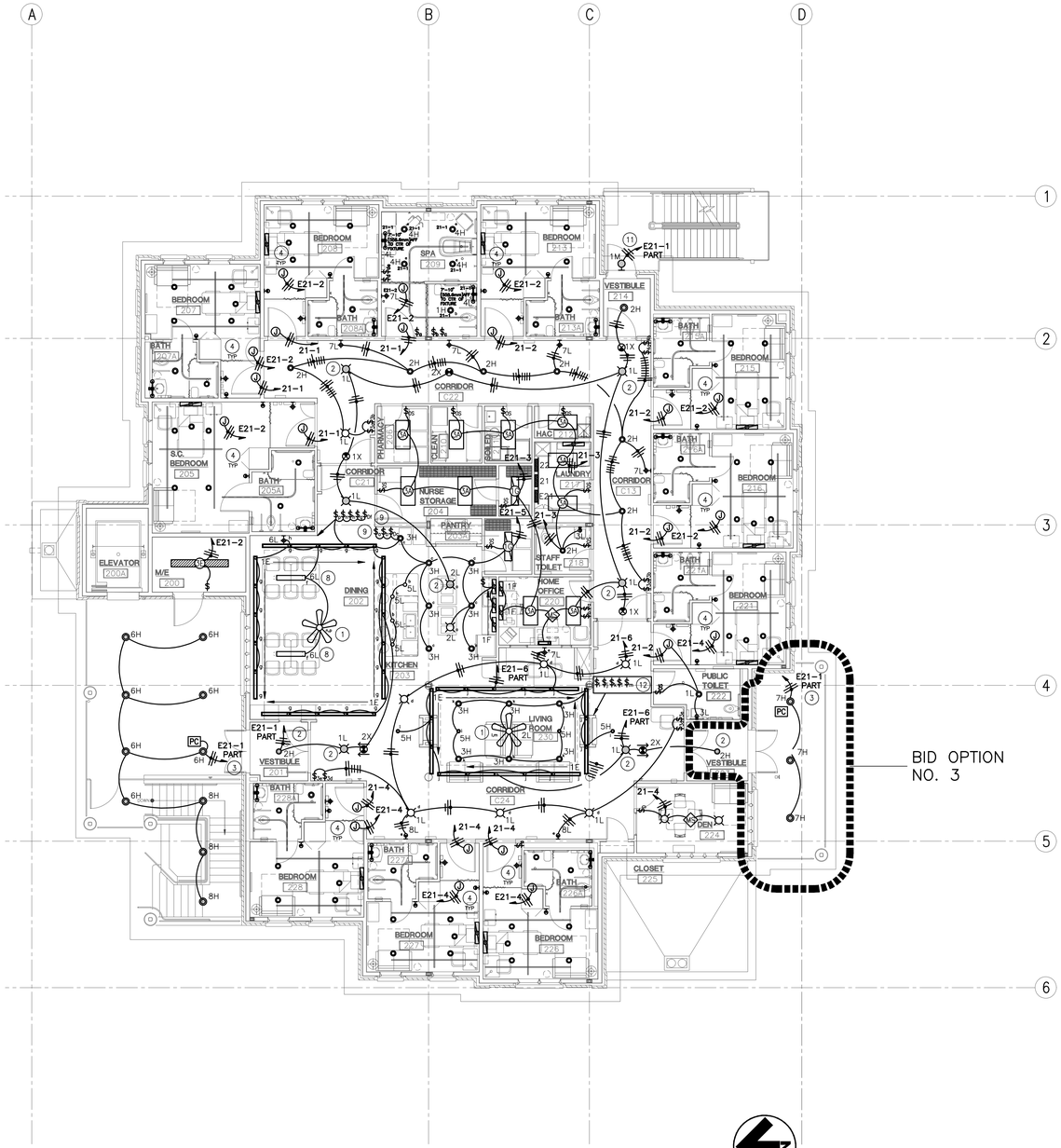
APPROVED: MEDICAL CENTER DIRECTOR

LOCATION VAMC BOISE, IDAHO

DWG 64 OF 78

DEPARTMENT OF VETERANS AFFAIRS

Username: cpatrick
May 23, 2012 - 4:27pm
Q:\2010\10101.0\Elec\02_Drawings\531-319_BE2.3.dwg

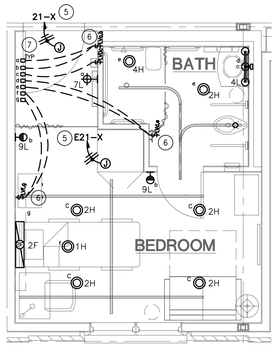


1 SECOND FLOOR LIGHTING PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

PROJECT NORTH



CONTRACTOR TO MOCK-UP FIRST BEDROOM AND BATH, COORDINATING WITH OWNER THE LIGHTING AND SWITCHING PRIOR TO ROUGH-IN AND INSTALLATION OF REMAINING BEDROOMS AND BATHS.

2 TYPICAL ENLARGED BEDROOM AND BATH LIGHTING PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES:

A. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

B. SHADED FIXTURE SHALL BE ON EMERGENCY CIRCUIT/NIGHTLIGHT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

C. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

D. ROOMS WHERE EMERGENCY LIGHT FIXTURES CIRCUITED TO EMERGENCY GENERATED PANEL AND LIGHT FIXTURES CIRCUITED TO NORMAL POWER PANEL SHALL BE CONTROLLED WITH WALL SWITCHES AS INDICATED. CONTRACTOR SHALL MAINTAIN CONTINUITY OF SEPARATE PANEL CIRCUITS AS SWITCH WIRING IS INSTALLED.

E. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

F. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

G. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

H. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH OTHER TRADES.

I. FURNISH AND INSTALL (1) 3/4"C WITH PLASTIC BUSHING AND PULL STRING FROM EACH LOW VOLTAGE LIGHTING CONTROL SWITCH TO ACCESSIBLE SPACE ABOVE CEILING FOR LOW VOLTAGE RELAY WIRING.

J. COORDINATE PRIOR TO ROUGH-IN FINAL LOCATION OF LIGHT SWITCHES WITH COTR.

SHEET NOTES:

1. FAN LIGHT. PROVIDE SEPERATE SWITCHING FOR OPERATION OF FAN AND LIGHT FIXTURE.
2. NIGHT LIGHT. WIRE FOR CONTINUOUS OPERATION.
3. FURNISH AND INSTALL INTERMATIC K4021C PHOTOCELL CONTROL UNDER CANOPY FOR CONTROL OF LIGHT FIXTURE.
4. SEE ENLARGED LIGHTING PLAN THIS SHEET BE2.4/2 FOR LIGHTING REQUIREMENTS.
5. SEE INDIVIDUAL BEDROOMS FOR CIRCUIT DESIGNATIONS THIS SHEET BE2.4/1.
6. FOR LOW VOLTAGE SWITCHING REQUIREMENTS IN TENANT BEDROOMS AND BATHROOMS, SEE SWITCH SCHEDULE SHEET BE0.2 ALL CAT-5 CABLING SHALL BE TESTED PRIOR TO INSTALLATION. PROVIDE A COMPLETE AND OPERATIONAL SWITCHING SYSTEM.
7. MOUNT LOW VOLTAGE RELAY POWER PACKS IN ACCESSIBLE CEILING AT ENTRY OF EACH ROOM. COORDINATE WITH MECHANICAL EQUIPMENT TO AVOID ANY INTERFERANCES.
8. PRIOR TO ROUGH-IN, COORDINATE LIGHT FIXTURE LOCATION CENTERED OVER DINING ROOM TABLE WITH BOTTOM OF FIXTURE AT 6'-0" AFF.
9. PROVIDE SYNERGY LIGHTING CONTROL SWITCH ISD BC 120/277/WH OR EQUAL TO CONTROL SWITCHING OF DINING ROOM TYPE 6L FIXTURES.
10. PROVIDE SYNERGY LIGHTING CONTROL DIMMER SWITCH ISD BC 120/277/WH OR EQUAL TO CONTROL FIXTURES INDICATED.
11. EXTERIOR MOUNTED LIGHTING FIXTURE. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
12. LIGHT SWITCHES SHALL BE MOUNTED AT END OF MILLWORK. COORDINATE LOCATION WITH COTR. SEE ARCHITECTURAL ELEVATIONS.

BEDROOM SWITCH SCHEDULE

SWITCH DESIGNATION	POWER CIRCUIT	TENANT BEDROOM AND BATHROOM LIGHTS CONTROLLED	FUNCTION	MANUFACTURER
SLVa SLVb	NORMAL EMERGENCY	ENTRY SCONCE NIGHT LIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVDc	NORMAL	BEDROOM DOWNLIGHTS	0-10V DIMMING	SENSOR SWITCH (1) nPODM-1P-DX-WH-MED-WH (1) RELAY POWER PACK nSP5 D
SLVd SLVe	NORMAL	BATHROOM VANITY LIGHT BATHROOM OVERHEAD DOWNLIGHT BATHROOM OVERHEAD SHOWER DOWNLIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVf SLVg	EMERGENCY NORMAL	BEDROOM EMERGENCY DOWNLIGHT MEMORY LIGHT SHELF	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH for SLVf and SLVg (1) RELAY POWER PACK Npp16 for SLVf nIO DEVICE FOR SLVg. SEE WIRING DIAGRAM THIS SHEET

CONTRACTOR MAY PROVIDE SWITCHES AND RELAY POWER PACKS EQUAL TO THOSE SPECIFIED. APPEARANCE SUBSTITUTED SENSORS MUST MATCH SPECIFIED SENSOR IN APPEARANCE, SIZE, QUALITY AND PERFORMANCE.

SWITCH SCHEDULE

SWITCH DESIGNATION	LIGHTS CONTROLLED	FUNCTION	SWITCH TYPE	NOTE
a	KITCHEN ISLAND	ON/OFF	MAINTAINED TOGGLE SWITCH	
b	KITCHEN COUNTER	ON/OFF	MAINTAINED TOGGLE SWITCH	
Dc	KITCHEN GENERAL	DIMMING	INCANDESCENT DIMMER	
d	CORRIDOR C14 CEILING	ON/OFF	MAINTAINED TOGGLE SWITCH	
e	CORRIDOR C14 SCONCES	ON/OFF	MAINTAINED TOGGLE SWITCH	
Df	DINING ROOM	STAND ALONE DIMMING SWITCH	WALL BOX BALLAST DIMMER	1
g	DINING ROOM SOFFIT	ON/OFF	MAINTAINED TOGGLE SWITCH	
h	DINING ROOM SCONCE	ON/OFF	MAINTAINED TOGGLE SWITCH	
i	WALL WASH	ON/OFF	MAINTAINED TOGGLE SWITCH	
j	LIVING ROOM COVE	ON/OFF	MAINTAINED TOGGLE SWITCH	
k	LIVING ROOM DOWNLIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	
l	LIVING ROOM FAN	ON/OFF	MAINTAINED TOGGLE SWITCH	
m	LIVING ROOM FAN LIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	
n	DINING ROOM FAN	ON/OFF	MAINTAINED TOGGLE SWITCH	
p	DINING ROOM FAN LIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	

NOTE:
1. PROVIDE DIRECT DIMMING AND SWITCHING CONTROL OF FLUORESCENT FIXTURE WITH SYNERGY ISB BC BALLAST CONTROLLER.

REVISIONS | DATE

CSHQA
C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP
PROFESSIONAL ENGINEER
CERTIFICATE NO. 9201
5-23-12
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME:
531-319_BE2.4.DWG

XREF FILE NAME:
531-319_xA_30X42TLBK.DWG
531-319_xB_Base2.DWG
531-319_xB_Lighting2.DWG
531-319_xB_Panel2.DWG

DRAWING TITLE
SECOND FLOOR LIGHTING PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

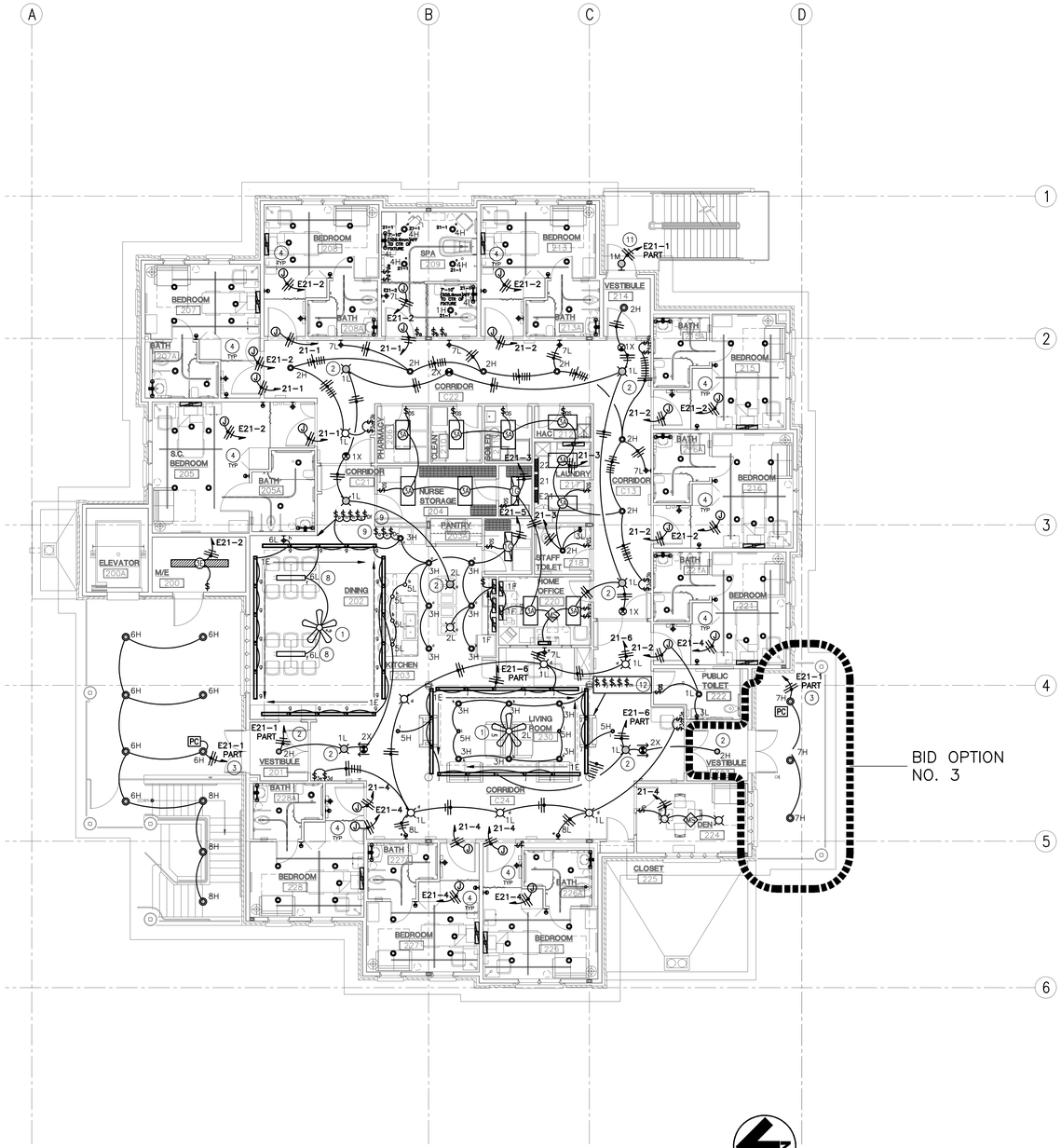
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'B' CLC

BUILDING NUMBER: 122
CHECKED: AKD
DRAWN: JCG
LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011
PROJECT NO. 531-319
DRAWING NO. BE2.4
DWG 65 OF 78

DEPARTMENT OF VETERANS AFFAIRS

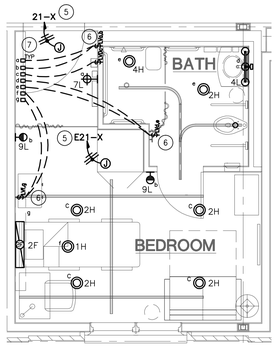


1 SECOND FLOOR LIGHTING PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

PROJECT NORTH



CONTRACTOR TO MOCK-UP FIRST BEDROOM AND BATH, COORDINATING WITH OWNER THE LIGHTING AND SWITCHING PRIOR TO ROUGH-IN AND INSTALLATION OF REMAINING BEDROOMS AND BATHS.

2 TYPICAL ENLARGED BEDROOM AND BATH LIGHTING PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/4" = 1'-0"

PROJECT NORTH

GENERAL NOTES:

A. ALL LIGHT FIXTURES SHALL BE 120 VOLT, UNLESS OTHERWISE NOTED.

B. SHADED FIXTURE SHALL BE ON EMERGENCY CIRCUIT/NIGHTLIGHT AND SHALL NOT HAVE EMERGENCY BALLAST INSTALLED UNLESS OTHERWISE NOTED.

C. ALL EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED FOR CONTINUOUS OPERATION.

D. ROOMS WHERE EMERGENCY LIGHT FIXTURES CIRCUITED TO EMERGENCY GENERATED PANEL AND LIGHT FIXTURES CIRCUITED TO NORMAL POWER PANEL SHALL BE CONTROLLED WITH WALL SWITCHES AS INDICATED. CONTRACTOR SHALL MAINTAIN CONTINUITY OF SEPARATE PANEL CIRCUITS AS SWITCH WIRING IS INSTALLED.

E. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

F. FURNISH AND INSTALL 1000W RATED DIMMER SWITCH FOR CONTROL OF LIGHT FIXTURES AS INDICATED. DERATING IS REQUIRED IF MULTI-GANGED AND CONTROL FINS/SIDE SECTIONS ARE REMOVED. COORDINATE WITH DIMMER SWITCH MANUFACTURER'S INSTALLATION REQUIREMENTS.

G. COORDINATE ALL UNDER CABINET LIGHTING WITH MILLWORK BEING INSTALLED AND ARCHITECTURAL ELEVATIONS. CONTRACTOR SHALL CONCEAL ALL CONDUIT.

H. ALL FINAL LOCATIONS AND ARRANGEMENTS OF CEILING LIGHTING FIXTURES SHALL BE COORDINATED WITH OTHER TRADES.

I. FURNISH AND INSTALL (1) 3/4"C WITH PLASTIC BUSHING AND PULL STRING FROM EACH LOW VOLTAGE LIGHTING CONTROL SWITCH TO ACCESSIBLE SPACE ABOVE CEILING FOR LOW VOLTAGE RELAY WIRING.

J. COORDINATE PRIOR TO ROUGH-IN FINAL LOCATION OF LIGHT SWITCHES WITH COTR.

SHEET NOTES:

1. FAN LIGHT. PROVIDE SEPERATE SWITCHING FOR OPERATION OF FAN AND LIGHT FIXTURE.
2. NIGHT LIGHT. WIRE FOR CONTINUOUS OPERATION.
3. FURNISH AND INSTALL INTERMATIC K4021C PHOTOCELL CONTROL UNDER CANOPY FOR CONTROL OF LIGHT FIXTURE.
4. SEE ENLARGED LIGHTING PLAN THIS SHEET BE2.4/2 FOR LIGHTING REQUIREMENTS.
5. SEE INDIVIDUAL BEDROOMS FOR CIRCUIT DESIGNATIONS THIS SHEET BE2.4/1.
6. FOR LOW VOLTAGE SWITCHING REQUIREMENTS IN TENANT BEDROOMS AND BATHROOMS, SEE SWITCH SCHEDULE SHEET BE0.2 ALL CAT-5 CABLING SHALL BE TESTED PRIOR TO INSTALLATION. PROVIDE A COMPLETE AND OPERATIONAL SWITCHING SYSTEM.
7. MOUNT LOW VOLTAGE RELAY POWER PACKS IN ACCESSIBLE CEILING AT ENTRY OF EACH ROOM. COORDINATE WITH MECHANICAL EQUIPMENT TO AVOID ANY INTERFERANCES.
8. PRIOR TO ROUGH-IN, COORDINATE LIGHT FIXTURE LOCATION CENTERED OVER DINING ROOM TABLE WITH BOTTOM OF FIXTURE AT 6'-0" AFF.
9. PROVIDE SYNERGY LIGHTING CONTROL SWITCH ISD BC 120/277/WH OR EQUAL TO CONTROL SWITCHING OF DINING ROOM TYPE 6L FIXTURES.
10. PROVIDE SYNERGY LIGHTING CONTROL DIMMER SWITCH ISD BC 120/277/WH OR EQUAL TO CONTROL FIXTURES INDICATED.
11. EXTERIOR MOUNTED LIGHTING FIXTURE. SEE ARCHITECTURAL EXTERIOR ELEVATIONS.
12. LIGHT SWITCHES SHALL BE MOUNTED AT END OF MILLWORK. COORDINATE LOCATION WITH COTR. SEE ARCHITECTURAL ELEVATIONS.

BEDROOM SWITCH SCHEDULE

SWITCH DESIGNATION	POWER CIRCUIT	TENANT BEDROOM AND BATHROOM LIGHTS CONTROLLED	FUNCTION	MANUFACTURER
SLVa SLVb	NORMAL EMERGENCY	ENTRY SCONCE NIGHT LIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVDc	NORMAL	BEDROOM DOWNLIGHTS	0-10V DIMMING	SENSOR SWITCH (1) nPODM-1P-DX-WH-MED-WH (1) RELAY POWER PACK nSP5 D
SLVd SLVe	NORMAL	BATHROOM VANITY LIGHT BATHROOM OVERHEAD DOWNLIGHT BATHROOM OVERHEAD SHOWER DOWNLIGHT	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH (2) RELAY POWER PACK nPP16
SLVf SLVg	EMERGENCY NORMAL	BEDROOM EMERGENCY DOWNLIGHT MEMORY LIGHT SHELF	ON/OFF	SENSOR SWITCH (1) nPODM-2P-WH-MED-WH for SLVf and SLVg (1) RELAY POWER PACK Npp16 for SLVf nIO DEVICE FOR SLVg. SEE WIRING DIAGRAM THIS SHEET

CONTRACTOR MAY PROVIDE SWITCHES AND RELAY POWER PACKS EQUAL TO THOSE SPECIFIED. APPEARANCE SUBSTITUTED SENSORS MUST MATCH SPECIFIED SENSOR IN APPEARANCE, SIZE, QUALITY AND PERFORMANCE.

SWITCH SCHEDULE

SWITCH DESIGNATION	LIGHTS CONTROLLED	FUNCTION	SWITCH TYPE	NOTE
a	KITCHEN ISLAND	ON/OFF	MAINTAINED TOGGLE SWITCH	
b	KITCHEN COUNTER	ON/OFF	MAINTAINED TOGGLE SWITCH	
Dc	KITCHEN GENERAL	DIMMING	INCANDESCENT DIMMER	
d	CORRIDOR C14 CEILING	ON/OFF	MAINTAINED TOGGLE SWITCH	
e	CORRIDOR C14 SCONCES	ON/OFF	MAINTAINED TOGGLE SWITCH	
Df	DINING ROOM	STAND ALONE DIMMING SWITCH	WALL BOX BALLAST DIMMER	1
g	DINING ROOM SOFFIT	ON/OFF	MAINTAINED TOGGLE SWITCH	
h	DINING ROOM SCONCE	ON/OFF	MAINTAINED TOGGLE SWITCH	
i	WALL WASH	ON/OFF	MAINTAINED TOGGLE SWITCH	
j	LIVING ROOM COVE	ON/OFF	MAINTAINED TOGGLE SWITCH	
k	LIVING ROOM DOWNLIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	
l	LIVING ROOM FAN	ON/OFF	MAINTAINED TOGGLE SWITCH	
m	LIVING ROOM FAN LIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	
n	DINING ROOM FAN	ON/OFF	MAINTAINED TOGGLE SWITCH	
p	DINING ROOM FAN LIGHTS	ON/OFF	MAINTAINED TOGGLE SWITCH	

NOTE:
1. PROVIDE DIRECT DIMMING AND SWITCHING CONTROL OF FLUORESCENT FIXTURE WITH SYNERGY ISB BC BALLAST CONTROLLER.

REVISIONS | DATE

CSHQA
C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP
PROFESSIONAL ENGINEER
CERTIFICATE NO. 9201
5-23-12
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME:
531-319_BE2.4.DWG

XREF FILE NAME:
531-319_xA_30X42TLBK.DWG
531-319_xB_Base2.DWG
531-319_xB_Lighting2.DWG
531-319_xB_Panel2.DWG

DRAWING TITLE
SECOND FLOOR LIGHTING PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

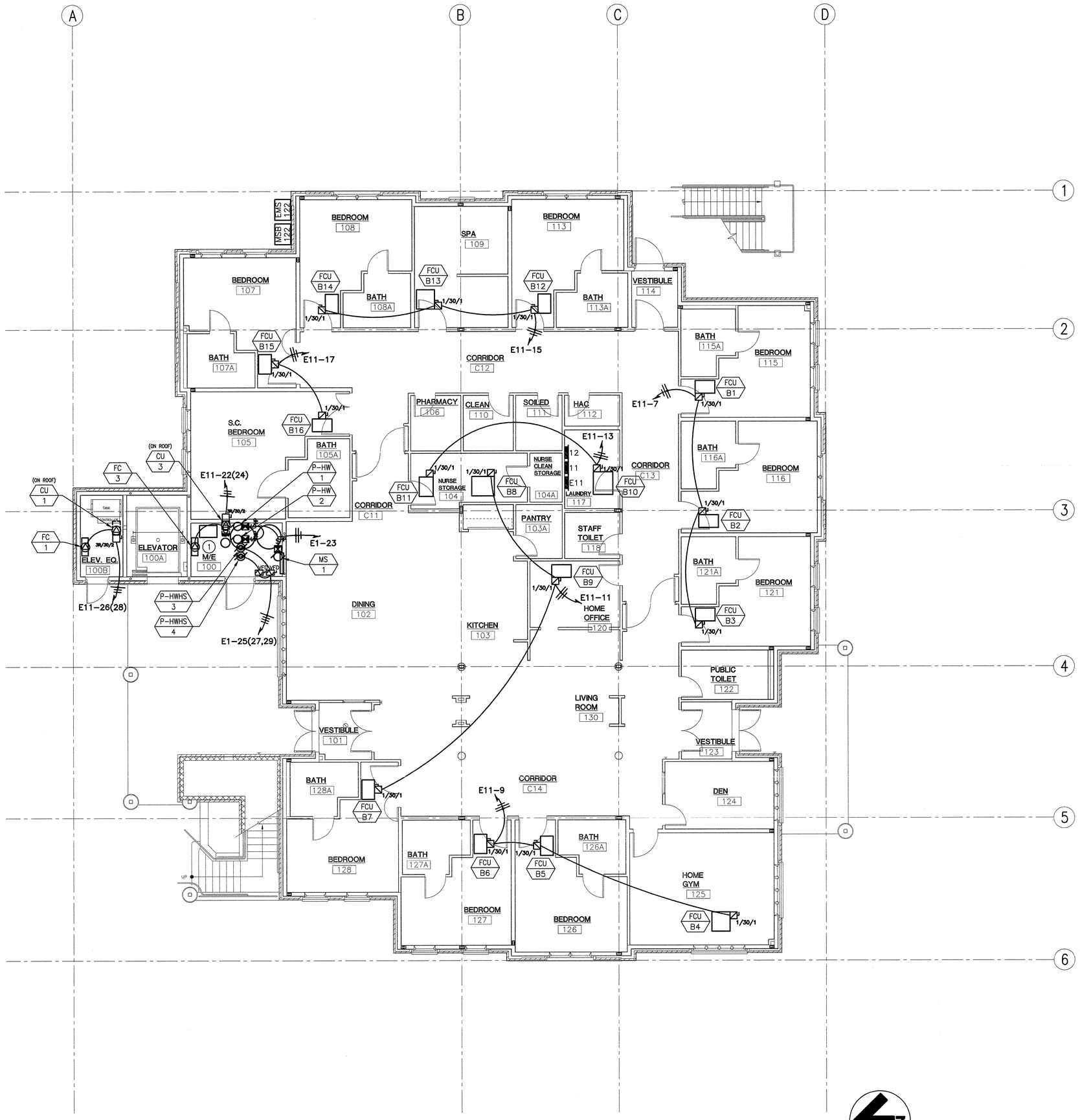
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'B' CLC

BUILDING NUMBER: 122
CHECKED: AKD
DRAWN: JCG
LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011
PROJECT NO. 531-319
DRAWING NO. BE2.4
DWG 65 OF 78

DEPARTMENT OF VETERANS AFFAIRS



1 FIRST FLOOR MECHANICAL POWER PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

C. PROVIDE POWER RELAYS, LOW VOLTAGE TRANSFORMERS, SECURITY CONDUITS AND JUNCTION BOXES AS REQUIRED FOR SECURITY SYSTEM CONNECTIONS. SECURITY SYSTEM CABLING AND EQUIPMENT BY OTHERS. COORDINATE ELECTRICAL REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE, ARCHITECT, SECURITY SYSTEM PROVIDER AND OWNERS AGENT. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. COORDINATE MOUNTING HEIGHTS AND ORIENTATION OF DEVICES IN MILLWORK WITH ARCHITECTURAL ELEVATIONS.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

SHEET NOTES:

1. COORDINATE EXACT LOCATION AND QUANTITY OF ELECTRICAL DISCONNECTS, MOTOR STARTERS AND CONDUIT ROUTING WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

REVISIONS	DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY WERE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT-WHEN PHASED-WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP

PROFESSIONAL ENGINEER REGISTERED 201 12-1-11 STATE OF IDAHO AMY K. DOCKTER

CAD FILE NAME:
531-319_xB_BE2.5.DWG

XREF FILE NAME:
531-319_xB_30X42TLBK.DWG
531-319_xB_Base1.DWG
531-319_xB_Panel1.DWG
531-319_BM2.1.DWG
531-319_BP2.2.DWG

DRAWING TITLE
FIRST FLOOR
MECHANICAL POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'B' CLC

BUILDING NUMBER	CHECKED	DRAWN
122	AKD	CRP

LOCATION
VAMC BOISE, IDAHO

DATE
12/01/2011

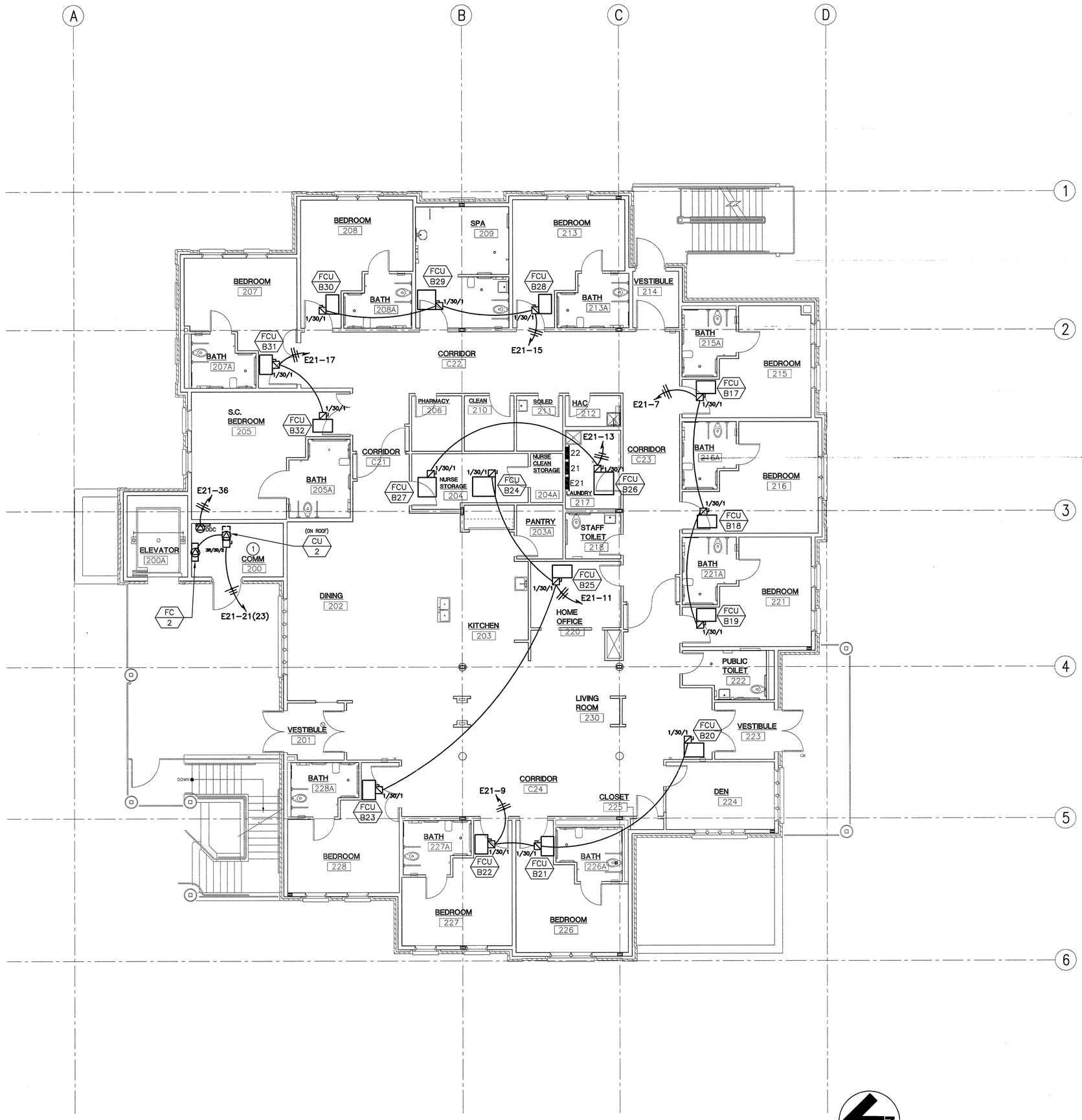
PROJECT NO.
531-319

DRAWING NO.
BE2.5

DWG 66 OF 78

DEPARTMENT OF VETERANS AFFAIRS

Username: dprc
Dec 01, 2011 - 5:18pm
Q:\2010\10101.0\Dec\02_Drawings\531-319_BE2.5.dwg



1 SECOND FLOOR MECHANICAL POWER PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

C. PROVIDE POWER RELAYS, LOW VOLTAGE TRANSFORMERS, SECURITY CONDUITS AND JUNCTION BOXES AS REQUIRED FOR SECURITY SYSTEM CONNECTIONS. SECURITY SYSTEM CABLING AND EQUIPMENT BY OTHERS. COORDINATE ELECTRICAL REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE, ARCHITECT, SECURITY SYSTEM PROVIDER AND OWNERS AGENT. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. COORDINATE MOUNTING HEIGHTS AND ORIENTATION OF DEVICES IN MILLWORK WITH ARCHITECTURAL ELEVATIONS.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

SHEET NOTES:

1. COORDINATE EXACT LOCATIONS OF ELECTRICAL DISCONNECTS AND CONDUIT ROUTING WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

Username:cjoric
Dec 01, 2011 - 5:39pm
Q:\2010\10101.0\Elec\02_Drawings\531-319_BE2.6.dwg

REVISIONS	DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY WERE MADE IS EXECUTED OR NOT. THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP

CERTIFICATE OF AUTHORITY
LICENSED PROFESSIONAL ENGINEER
12-1-11
STATE OF IDAHO
AMY K. DOCKTER

CAD FILE NAME:
531-319_xB_BE2.6.DWG

XREF FILE NAME:
531-319_xB_30X42TLBK.DWG
531-319_xB_Base2.DWG
531-319_xB_Panel2.DWG
531-319_BM2.2.DWG

DRAWING TITLE
SECOND FLOOR
MECHANICAL POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE
BOISE VAMC
NEW EXTENDED CARE UNIT
BUILDING 'B' CLC

BUILDING NUMBER	CHECKED	DRAWN
122	AKD	CRP

LOCATION
VAMC BOISE, IDAHO

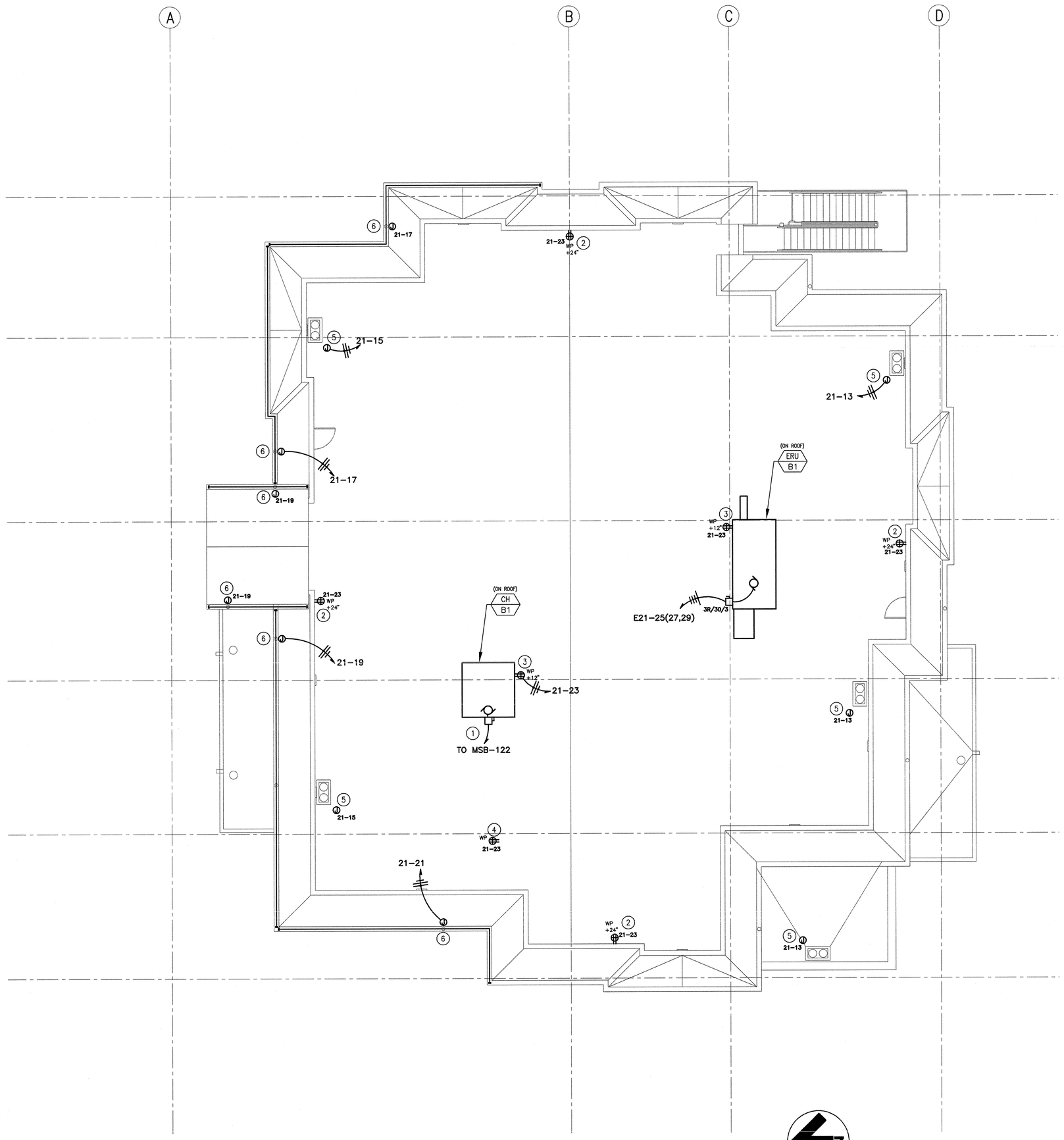
DATE
12/01/2011

PROJECT NO.
531-319

DRAWING NO.
BE2.6

DWG 67 OF 78

DEPARTMENT OF VETERANS AFFAIRS



1 ROOF POWER PLAN

0' 4' 8' 12' 16' 20' 24'

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.

B. ROUTE ALL CONDUIT HOME RUNS TO PANELS OVERHEAD AND ABOVE ACCESSIBLE CEILINGS WHERE AVAILABLE.

C. PROVIDE POWER RELAYS, LOW VOLTAGE TRANSFORMERS, SECURITY CONDUITS AND JUNCTION BOXES AS REQUIRED FOR SECURITY SYSTEM CONNECTIONS. SECURITY SYSTEM CABLING AND EQUIPMENT BY OTHERS. COORDINATE ELECTRICAL REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE, ARCHITECT, SECURITY SYSTEM PROVIDER AND OWNERS AGENT. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW MECHANICAL DRAWINGS AND SUBMITTALS, AND PROVIDE ALL LINE VOLTAGE POWER AND INTERLOCK CONDUIT, CONDUCTORS AND TERMINATIONS FOR FULLY OPERATIONAL SYSTEMS. CONDUIT FOR CONTROL WIRING SHALL BE BY ELECTRICAL CONTRACTOR. CONTROL WIRING AND CONNECTIONS FOR MECHANICAL EQUIPMENT SHALL BE BY CONTROLS CONTRACTOR.

E. COORDINATE ALL CONTROL WORK WITH THE MECHANICAL CONTRACTOR. FURNISH AND INSTALL ALL ELECTRICAL BOXES AND CONDUIT RUNS REQUIRED PER MECHANICAL DRAWINGS.

F. FURNISH AND INSTALL MOTOR STARTERS, DISCONNECTS AND FUSES AS REQUIRED BY EQUIPMENT RATINGS AND MANUFACTURERS RECOMMENDATIONS.

G. COORDINATE MOUNTING HEIGHTS AND ORIENTATION OF DEVICES IN MILLWORK WITH ARCHITECTURAL ELEVATIONS.

H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

I. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

SHEET NOTES:

1. SEE SINGLE LINE DIAGRAM SHEET E3.1 FOR ELECTRICAL CONNECTION REQUIREMENTS. FOR THIS UNIT.
2. ROOFTOP WEATHERPROOF GFCI RECEPTACLE. MOUNT IN WALL OF MANSARD ROOF.
3. ROOFTOP WEATHERPROOF GFCI RECEPTACLE. MOUNT ADJACENT TO MECHANICAL UNIT. SEE DETAIL E4.1-5.
4. ROOFTOP WEATHERPROOF GFCI RECEPTACLE. MOUNT ADJACENT TO HOSE BIB. SEE DETAIL E4.1-5.
5. FURNISH AND INSTALL ICE MELT CABLE AROUND ROOF AND DOWN INSIDE EACH ROOF DRAIN PIPE. SEE DETAIL E4.1-6.
6. FURNISH AND INSTALL ICE MELT CABLE IN GUTTER AND INSIDE DOWNSPOUT PIPES TO LOWER ROOFS AND IN DOWNSPOUT PIPES TO UNDER SIDEWALK AND TERMINATE. JUNCTION BOX WITH WEATHERPROOF COVER MOUNTED IN EAVE VENT. ICE MELT CABLE, JUNCTION BOX AND TERMINATIONS SAME AS SHOWN IN DETAIL E4.1-6. FOR ELECTRICAL BOX LOCATION SEE ARCHITECTURAL EXTERIOR DETAIL A7.5-3.

Username: dgric
Dec 01, 2011 - 5:40pm
Q:\2010\10101.0\Elec\02_Drawings\531-319_BE2.7.dwg

REVISIONS	DATE

CSHQA

C.W. MOORE PLAZA
250 S. 5TH ST. BOISE, ID 83702
(208) 343-4635 FAX (208) 343-1858
http://www.cshqa.com

AMY K. DOCKTER, P.E.
C.W. MOORE PLAZA
250 S. 5TH ST
BOISE, IDAHO
PHONE: 208-343-4635 FAX: 208-343-1858

THESE DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT / ENGINEER WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR COMPLETION OF THIS PROJECT WHEN PHASED WITHOUT THE WRITTEN CONSENT OF CSHQA OR ITS AFFILIATES. Copyright ©2011

STAMP

PROFESSIONAL ENGINEER REGISTRATION 9201 STATE OF IDAHO AMY K. DOCKTER 12-1-11

CAD FILE NAME: 531-319_BE27.DWG

XREF FILE NAME: 531-319_xB_30X42TLBK.DWG 531-319_xB_Base1.DWG 531-319_xB_Panel.DWG

DRAWING TITLE: ROOF POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: BOISE VAMC NEW EXTENDED CARE UNIT BUILDING 'B' CLC

BUILDING NUMBER: 122

CHECKED: AKD

DRAWN: CRP

LOCATION: VAMC BOISE, IDAHO

DATE: 12/01/2011

PROJECT NO.: 531-319

DRAWING NO.: BE2.7

DWG 68 OF 78

DEPARTMENT OF VETERANS AFFAIRS