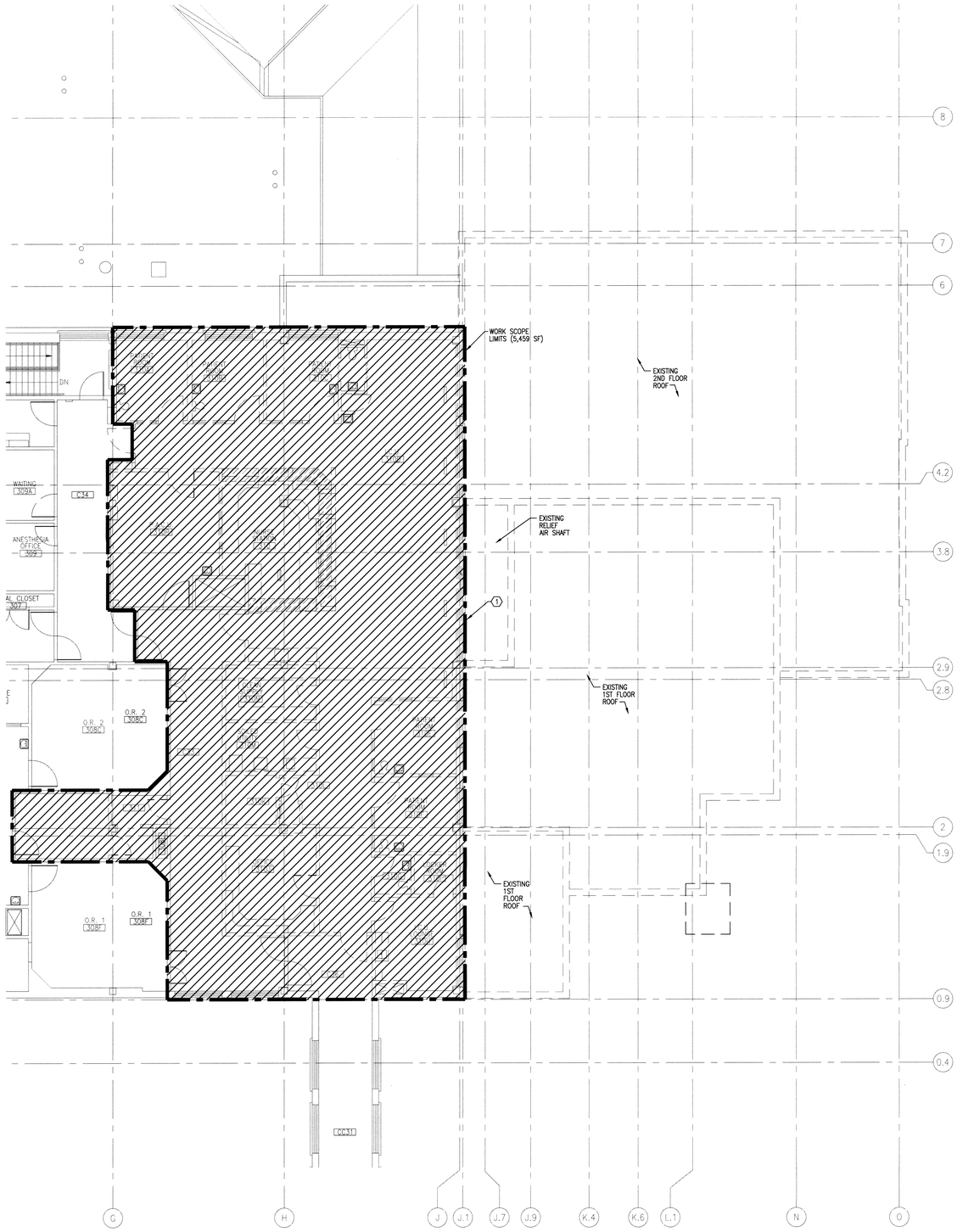

FP2 BUILDING 85 – THIRD FLOOR FIRE PROTECTION DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH 0 4' 8' 16'

GENERAL SHEET NOTES

A. FIRE SPRINKLER SCOPE OF WORK:
PROVIDE MODIFICATIONS AND EXTENSIONS TO THE EXISTING WET PIPE SPRINKLER SYSTEMS TO FULLY PROTECT THE EXISTING STRUCTURE AND NEW CONSTRUCTION PER NFPA 13, 2010 REQUIREMENTS.

B. FIRE SPRINKLER NOTES:
1. EXISTING FIRE SYSTEM PIPING IS A SCHEMATIC REPRESENTATION BASED ON AVAILABLE AS-BUILT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS.
2. COORDINATE DRAIN AND INSPECTORS TEST VALVE LOCATIONS WITH ARCHITECT. PROVIDE ACCESS PANELS AT DRAIN AND TEST VALVE LOCATIONS IN FASCIA AND CANOPIES.
3. CONTRACTOR TO BRING ANY OBSERVED DAMAGE OR IMPROPER SPACING OF EXISTING PIPING AND SPRINKLERS NOTED TO THE ATTENTION OF THE ARCHITECT/ENGINEER TEAM.
4. COORDINATE ALL WORK WITH HAZARDOUS MATERIALS ABATEMENT CONTRACTOR, SEE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
5. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK AND NOTIFY OWNER'S REPRESENTATIVE.

C. FIRE SPRINKLER SYSTEM INSTALLATION NOTES:
MODIFY AND ADD PIPING TO EXTEND WET PIPE SYSTEMS TO PROTECT NEW CONSTRUCTION AND REMODEL AREAS. CONNECT NEW WET PIPE SYSTEM EXTENSIONS TO EXISTING SPRINKLER PIPING AS INDICATED.
1. ALL NEW FIRE PROTECTION TO BE DESIGNED PER NFPA 13, 2010 EDITION. MECHANICAL PENTHOUSE, ELECTRICAL AND MECHANICAL ROOMS, AND STORAGE AREAS TO BE DESIGNED FOR ORDINARY HAZARD GROUP 1. DESIGN PER LIGHT HAZARD OCCUPANCY IN OTHER AREAS.
2. NEW FIRE SPRINKLER PIPING IS TO BE INSTALLED ABOVE NEW CEILINGS UNLESS NOTED OTHERWISE.
3. PROVIDE NEW FIRE SPRINKLER PROTECTION IN SHELL SPACES AT 120 sf SPACING.
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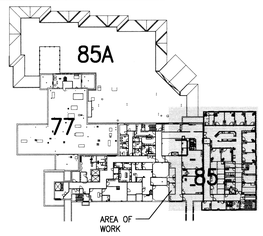
5. NEW SPRINKLERS TO BE QUICK RESPONSE WHITE SEMI-RECESSED IN AREAS OF FINISH CEILINGS.
6. NON-COMBUSTIBLE CONSTRUCTION ABOVE CEILINGS, NO PROTECTION ABOVE CEILINGS REQUIRED.
7. INCLUDE CUTTING AND PATCHING FOR ALL NEW PIPING AT ALL WALLS. PROVIDE FIRE CAULKING AT FLOOR PENETRATIONS AND AT ALL RATED WALLS.

SHEET KEYNOTES

1. AREA OF FIRE SPRINKLER SYSTEM REMODEL. CONTRACTOR TO RELOCATE EXISTING DROPS AND ADD NEW DROPS TO PROVIDE COMPLETE COVERAGE FOR NEW WALL AND CEILING LAYOUT. PROVIDE ALL NEW SPRINKLER HEADS IN REMODEL AREAS.

LEGEND

— F — F — EXISTING FIRE SPRINKLER PIPING
— F — F — NEW FIRE SPRINKLER PIPING



THIRD FLOOR KEY PLAN
NOT TO SCALE
PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

POWER ENGINEERS
2041 South Cobalt Point Way
Meridian, Idaho 83642
208-288-6100

PROFESSIONAL ENGINEER REGISTERED 9436 12/31 STATE OF IDAHO KELLY WOODS

ZGA. Architects and Planners, Chartered
565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606

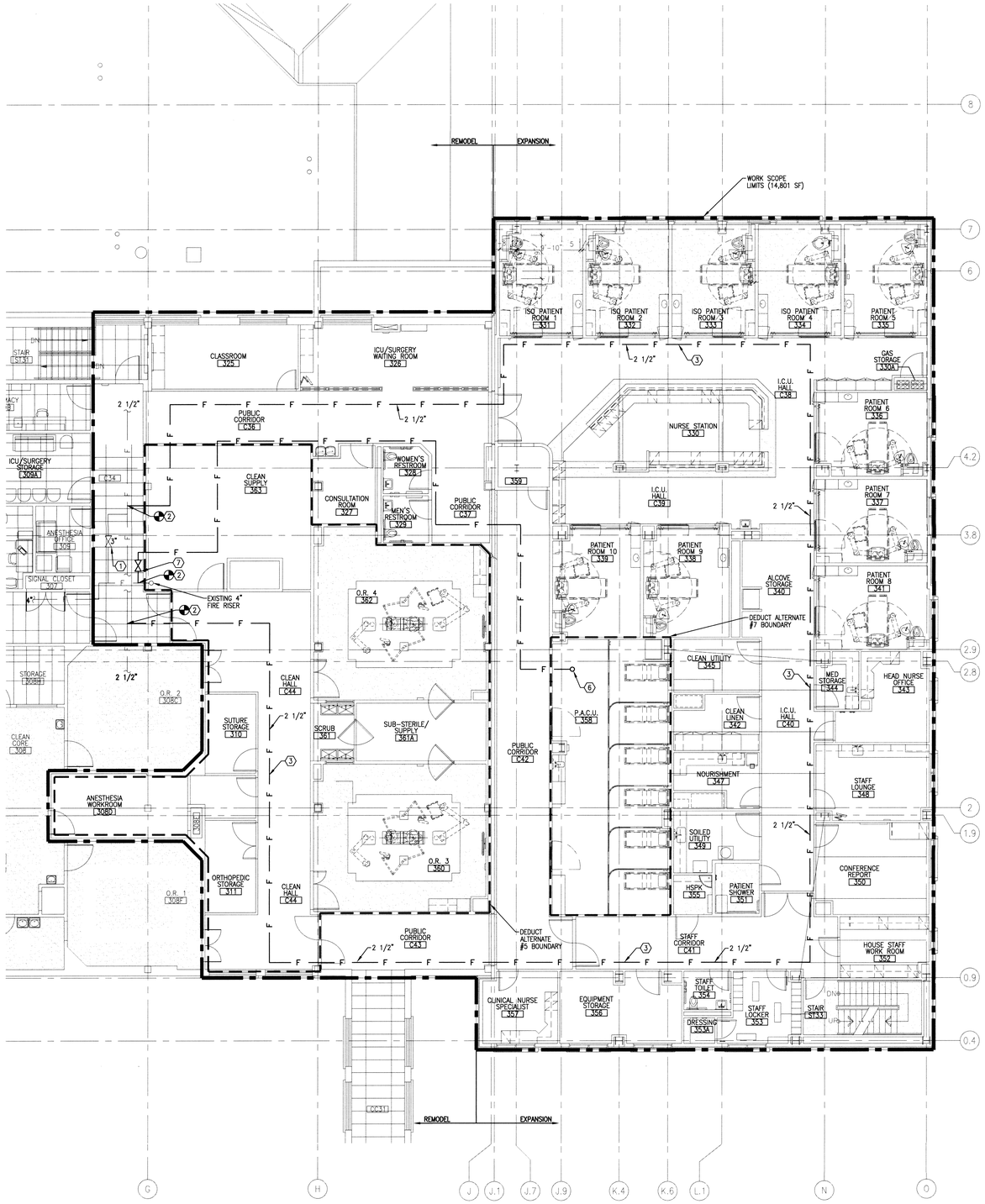
CAD FILE NAME: 531-317_FP23A
XREF FILE NAME: 85A3FL 531-317_xVAbord

DRAWING TITLE: THIRD FLOOR FIRE PROTECTION DEMOLITION PLAN
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
BUILDING NUMBER: 85 | CHECKED: JB | DRAWN: JA
LOCATION: VAMC BOISE, IDAHO

DATE: 11/01/2011
PROJECT NO.: 531-317
DRAWING NO.: FP2.3A
DWG 151 OF 188

DEPARTMENT OF VETERANS AFFAIRS



FP2 BUILDING 85 – THIRD FLOOR FIRE PROTECTION REMODEL PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH 0 4' 8' 16'

GENERAL SHEET NOTES

A. FIRE SPRINKLER SCOPE OF WORK:
PROVIDE MODIFICATIONS AND EXTENSIONS TO THE EXISTING WET PIPE SPRINKLER SYSTEMS TO FULLY PROTECT THE EXISTING STRUCTURE AND NEW CONSTRUCTION PER NFPA 13, 2010 REQUIREMENTS.

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MODIFY AND ADD PIPING TO EXTEND WET PIPE SYSTEMS TO PROTECT NEW CONSTRUCTION AND REMODEL AREAS. CONNECT NEW WET PIPE SYSTEM EXTENSIONS TO EXISTING SPRINKLER PIPING AS INDICATED.
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7. INCLUDE CUTTING AND PATCHING FOR ALL NEW PIPING AT ALL WALLS. PROVIDE FIRE CAULKING AT FLOOR PENETRATIONS AND AT ALL RATED WALLS.

SHEET KEYNOTES

1. EXISTING THIRD FLOOR CONTROL VALVE.
2. TIE INTO EXISTING 2 1/2" FIRE MAIN WITH NEW FIRE SERVICE AT THIS LOCATION.
3. NEW LOOPED FIRE MAIN FOR THIRD FLOOR EXPANSION.
4. NOT USED.
5. NOT USED.
6. NEW FIRE PROTECTION SPRINKLER MAIN UP TO PENTHOUSE. SEE SHEET FP2.4 FOR CONTINUATION.
7. PROVIDE NEW FLOW CONTROL VALVE AND RISER ASSEMBLY FOR MECHANICAL PENTHOUSE.
8. AREA OF FIRE SPRINKLER SYSTEM REMODEL. CONTRACTOR TO RELOCATE EXISTING DROPS AND ADD NEW DROPS TO PROVIDE COMPLETE COVERAGE FOR NEW WALL AND CEILING LAYOUT. PROVIDE ALL NEW SPRINKLER HEADS IN REMODEL AREAS.

DEDUCT ALTERNATE #5 AND #7 FIRE PROTECTION NARRATIVE

A. UNDER DEDUCT ALTERNATE #5 CONTRACTOR SHALL PROVIDE SEPARATE DEDUCT PRICING FOR REMODEL WORK ASSOCIATED WITHIN THE DEDUCT BOUNDARY TO INCLUDE AS PART OF THE FIRE PROTECTION BID.

B. UNDER DEDUCT ALTERNATE #7 CONTRACTOR SHALL PROVIDE SEPARATE DEDUCT PRICING FOR PROVIDING A "SHELL" FIRE PROTECTION SYSTEM INSTALLATION WITHIN THE DEDUCT BOUNDARY TO INCLUDE AS PART OF THE FIRE PROTECTION BID.

LEGEND

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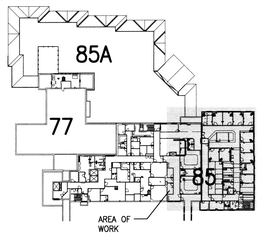
— F — F — NEW FIRE SPRINKLER PIPING



THIRD FLOOR KEY PLAN
NOT TO SCALE
PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

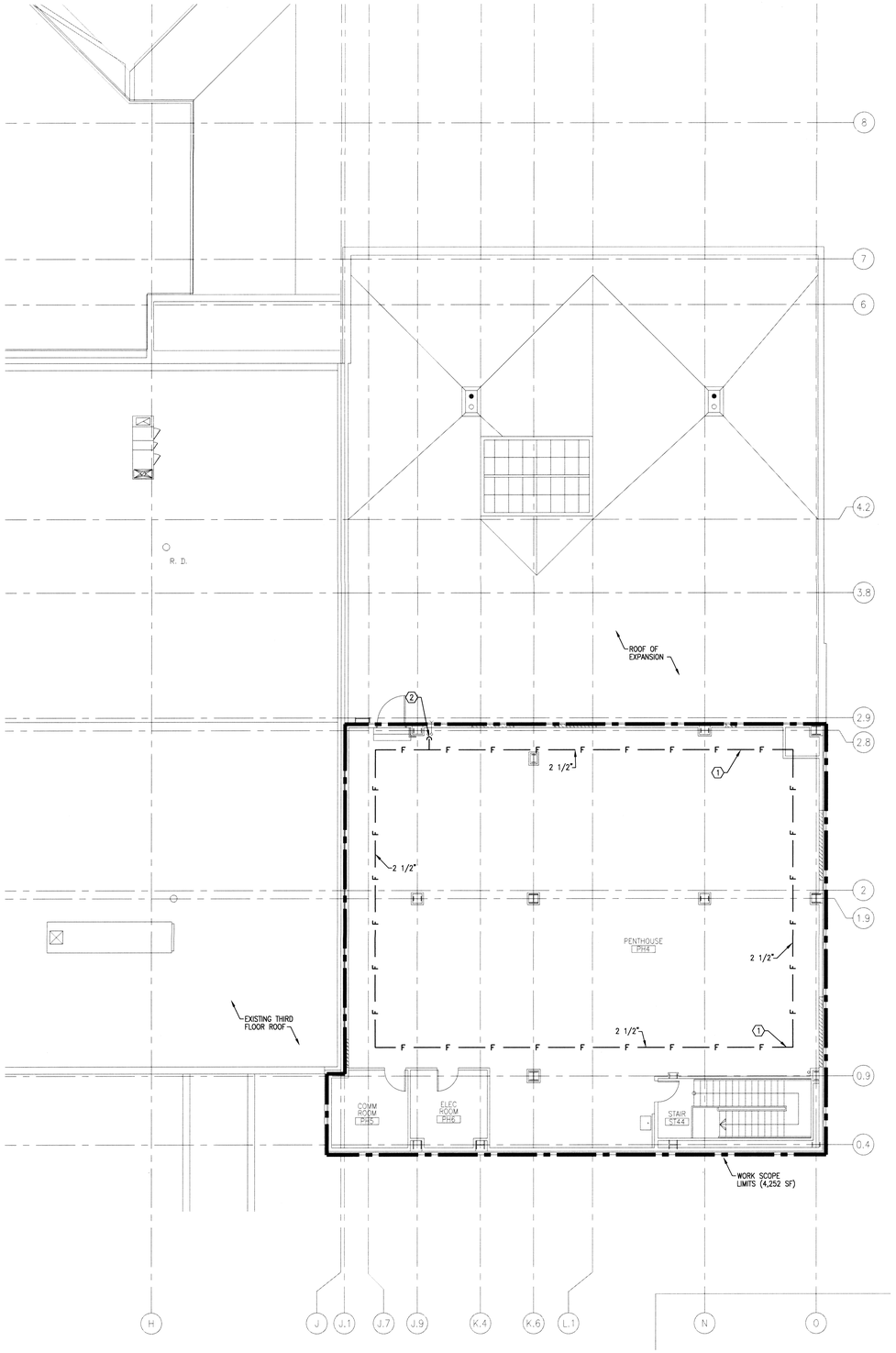
POWER ENGINEERS
2041 South Cobalt Point Way
Meridian, Idaho 83642
208-288-6100

PROFESSIONAL ENGINEER REGISTERED 9436 STATE OF IDAHO KELLY WOODS

Architects and Planners, Chartered
565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606

CAD FILE NAME: 531-317_FP23B
XREF FILE NAME: 85A3FL 531-317_xVAbord

DRAWING TITLE: THIRD FLOOR FIRE PROTECTION REMODEL PLAN
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO. 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER 85 | CHECKED JB | DRAWN JA
DRAWING NO. FP2.3B
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION VAMC BOISE, IDAHO
DWG 152 OF 188
DEPARTMENT OF VETERANS AFFAIRS



FP2 BUILDING 85 – PENTHOUSE FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH
0 4' 8' 16'

GENERAL SHEET NOTES

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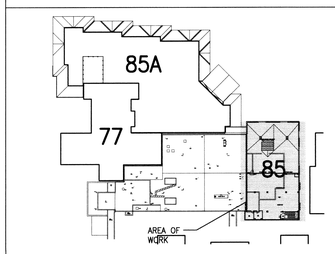
SHEET KEYNOTES

1. NEW LOOPED FIRE SPRINKLER MAIN FOR PENTHOUSE EXPANSION.
2. NEW FIRE PROTECTION SPRINKLER MAIN FOR PENTHOUSE UP FROM FLOOR BELOW. SEE SHEET FP2.3B FOR CONTINUATION.

LEGEND

F — EXISTING FIRE SPRINKLER PIPING
F — NEW FIRE SPRINKLER PIPING



PENTHOUSE KEY PLAN
NOT TO SCALE
PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

POWER ENGINEERS
2041 South Cobalt Point Way
Meridian, Idaho 83642
208-288-6100

PROFESSIONAL ENGINEER REGISTERED 9436 STATE OF IDAHO KELLY WOODS

ZGA. Architects and Planners, Chartered
565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606

CAD FILE NAME: 531-317_FP24
XREF FILE NAME: 85APH 531-317_xVAbord

DRAWING TITLE: PENTHOUSE FIRE PROTECTION PLAN

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

DATE: 11/01/2011
PROJECT NO. 531-317

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

BUILDING NUMBER: 85
CHECKED: JB
DRAWN: JA
LOCATION: VAMC BOISE, IDAHO

DRAWING NO. FP2.4
DWG 153 OF 188

DEPARTMENT OF VETERANS AFFAIRS

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 OFFICER OR THEIR 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
GFI/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
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

GENERAL PLAN NOTES:

GG1. COORDINATE WITH MECHANICAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TO AVOID INTERFERENCE WITH DUCTWORK AND PIPING, AND OWNER INSTALLED HARDWARE/EQUIPMENT.

GG2. PROVIDE FIRE STOPPING FOR ALL FLOOR AND FIRE WALL PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR FIRE WALL LOCATIONS. DEVICE BOXES ON OPPOSITE SIDES OF FIRE WALLS (1 HOUR AND 2 HOUR WALL CONSTRUCTION) SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES. OUTLET BOXES SHALL BE OF STEEL CONSTRUCTION, NOT OVER 16 SQUARE INCHES IN SIZE, WITH NO MORE THAN 100 SQUARE INCHES OF TOTAL BOX OPENING FOR ANY 100 SQUARE FEET OF WALL, OR SHALL BE LISTED AND RATED FOR USE IN FIRE WALLS. COORDINATE WITH ARCHITECTURAL DETAILS.

GG3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL DEVICE LOCATIONS. ESTABLISH MOUNTING HEIGHTS BY COORDINATION WITH ARCHITECTURAL INTERIOR ELEVATIONS, OR PER ELECTRICAL NOTES.

GG4. WIRING FOR "NORMAL", "LIFE SAFETY", "EMERGENCY EQUIPMENT", AND "EMERGENCY CRITICAL" CIRCUITS SHALL BE ROUTED IN SEPARATE CONDUITS; WHERE WIRING FROM DIFFERING SYSTEMS ENTER THE SAME ENCLOSURE, A SUITABLE BARRIER SHALL BE INSTALLED IN THE ENCLOSURE FOR SYSTEM SEPARATION.

GG5. ALL CONDUITS FOR POWER SHALL CONTAIN AN INSULATED GROUND CONDUCTOR, MINIMUM SIZE AS REQUIRED PER THE NATIONAL ELECTRIC CODE, UNLESS OTHERWISE NOTED. MINIMUM SIZE CONDUCTOR SHALL BE #12 AWG COPPER.

GG6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CORE DRILLING OF EXTERIOR WALLS AND FLOOR SLABS TO INSTALL CONDUIT WHICH ARE REQUIRED TO PENETRATE THESE SURFACES, UNLESS EXISTING SLEEVES ARE SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS. COORDINATE WITH THE OWNER'S FIELD REPRESENTATIVE TO DETERMINE LOCATION AND SPACING REQUIREMENTS FOR ALL CORE DRILLING.

GG7. PROVIDE A DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT; SHARED NEUTRALS (EDISON CIRCUITS) SHALL NOT BE ALLOWED.

GG8. LINE WORK, WHERE SHOWN, INDICATES ANTICIPATED CONDUIT LAYOUT. ROUTING OF CONDUIT SHALL BE SUCH THAT "MAIN TRUNK" CONDUITS SHALL BE LOCATED ABOVE CORRIDOR SPACES AND NOT ROUTED OVER PATIENT SPACES.

GG9. PROVIDE CAPABILITY OF UP TO 4" OF STRUCTURAL MOVEMENT AT STRUCTURAL EXPANSION JOINT BETWEEN GRID LINES J AND J1 FOR ALL CONDUITS THAT PASS THROUGH THIS ZONE. UTILIZE JUNCTION BOXES AND FLEXIBLE CONDUIT AS REQUIRED TO ACHIEVE THIS REQUIREMENT.

GG10. THE WALLS FOR ALL OFFICES, EXAM ROOMS, PATIENT ROOMS, AND PROCEDURE SPACES WILL EXTEND FROM THE FLOOR TO THE STRUCTURAL DECK ABOVE. PROVIDE 'SOUND CAULKING' FOR ALL ELECTRICAL PENETRATIONS (CONDUITS, BOXES) OF THESE WALLS/PARTITIONS, BOTH ABOVE AND BELOW THE CEILING PLANE.

GG11. PROVIDE TYPED SCHEDULE IN ALL PANELS. PROVIDE ALL RACEWAY AND CONDUCTORS REQUIRED TO CIRCUIT DEVICES AND LOADS FROM PANELS INDICATED.

GG12. WORK PERFORMED IN OCCUPIED PORTIONS OF THE BUILDING TO BE SCHEDULED AND COORDINATED WITH VA COTR. IT SHALL BE ASSUMED THAT THIS WORK IS TO BE PERFORMED DURING NON-PEAK TIMES BETWEEN THE HOURS OF 6PM AND 7AM UNLESS OTHERWISE APPROVED BY THE VA COTR.

GG13. 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 SHUT DOWN OR IT WILL HAVE TO BE WORKED HOT DEPENDING ON 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.

GG14. COORDINATE INSTALLATION OF ELECTRICAL DEVICE BOXES IN HVAC SHAFT WALLS TO MAINTAIN AIR TIGHT SHAFTS. PROVIDE FIRE STOP INTUMESCENT PUTTY PAD AROUND OUTSIDE SURFACE OF ELECTRICAL BOXES TO MAINTAIN AIR TIGHT SEAL FOR ALL BOXES IN SHAFT WALLS.

GENERAL LIGHTING PLAN NOTES:

GL1. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS; THESE TAKE PRECEDENCE OVER LIGHTING PLANS, FOR FIXTURE/LUMINAIRE PLACEMENT.

GL2. ALL EMERGENCY AND LIFE SAFETY FIXTURES SHALL BE UNSWITCHED, EXCEPT WHERE SWITCHING IS SPECIFICALLY SHOWN OR NOTED.

GL3. SWITCHES WITH NO SUBSCRIPT CONTROL ALL LIGHTING WITHIN THE SAME ROOM, UNLESS OTHERWISE SHOWN OR NOTED.

GL4. PROVIDE WIRING FOR CONTROL OF EACH GROUP OF UNDER CABINET LIGHTS, WHICH ARE MOUNTED END-TO-END, BY THE ROCKER SWITCH IN ONE FIXTURE, UNLESS OVER SINK AREA.

GL5. UNDERCABINET LIGHTS NEAR WET AREAS SHALL BE CONTROLLED BY WALL SWITCHES.

GL6. FOR MOUNTING LOCATIONS OF UNDERCABINET LIGHTING FIXTURES, REFER TO ARCHITECTURAL DETAILS.

GL7. SWITCH BANKS AT NURSE STATIONS AND SWITCH BANKS FOR CORRIDOR LIGHTING SHALL BE INSTALLED IN SINGLE, COMMON BOX, UNLESS LIMITED BY WALL SPACE. PROVIDE METALLIC BARRIERS BETWEEN NORMAL AND EMERGENCY WIRING WHERE REQUIRED.

GL8. CIRCUITING LINEWORK MAY BE SHOWN FOR CLARITY OF SWITCHING AND CIRCUITS. FIELD DETERMINE OPTIMUM RACEWAY AND CONDUCTOR COUNT TO ACHIEVE INTENDED SWITCHING AND CIRCUITING.

GENERAL POWER PLAN NOTES:

GP1. DEVICE BOXES SHALL NOT BE MOUNTED BACK-TO-BACK IN WALLS, UNLESS OTHERWISE APPROVED BY OWNER.

GP2. MOUNT RECEPTACLES IN RESTROOMS AT +42" ABOVE FINISHED FLOOR (AFF) TO CENTER, WHERE ADJACENT TO SINK; UNLESS OTHERWISE NOTED, OR SHOWN.

GP3. A SEPARATE DEDICATED NEUTRAL CONDUCTOR SHALL BE SUPPLIED FOR EACH RECEPTACLE CIRCUIT.

GP4. PROVIDE POWER CONDUCTORS AND CONNECTIONS TO PNEUMATIC TUBE STATION OR TRANSFER UNIT; CONTROL CONDUCTORS AND CONNECTIONS BY SYSTEM VENDOR.

GP5. PROVIDE HOSPITAL GRADE RECEPTACLES UNLESS OTHERWISE NOTED.

GP6. PROVIDE, PRIOR TO FINAL ELECTRICAL INSPECTION, DOCUMENTATION TO SHOW NFPA 99, CHAPTER 4 (4.3.3) COMPLIANCE FOR PATIENT CARE AREAS; COORDINATE WITH ELECTRICAL PERSONNEL FROM VA BUILDING SERVICES.

GP7. PROVIDE SUFFICIENT ACCESS AND WORKING SPACE ABOUT ALL ELECTRIC EQUIPMENT PER NEC 110.26.

GP8. WHERE CIRCUIT SCHEDULE CALLOUT INDICATES HOMERUN CIRCUIT SIZE, EXTEND SAME SIZE CIRCUIT TO LOAD.

GP9. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS FOR MECHANICAL SYSTEM CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

GP10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.

GENERAL FIRE ALARM PLAN NOTES:

GF1. CONDUCTORS ROUTED TO PANELS, CABINETS, AND DEVICES OF THE FIRE ALARM SYSTEM SHOWN ON THE PLANS SHALL ALL BE ROUTED IN CONDUIT.

GF2. CONDUIT SHALL BE 3/4" MINIMUM AND SHALL BE CONCEALED UNLESS INDICATED OTHERWISE. PROVIDE CONDUCTORS PER THE SPECIFICATIONS AND THE RISER DIAGRAMS.

GF3. CONDUIT ROUTING FOR THE FIRE ALARM SYSTEM SHALL BE SUCH THAT ALL "MAIN TRUNKS" ARE ROUTED ABOVE THE CORRIDOR SPACES, WITH LATERALS TO SPECIFIC AREAS OR ROOMS.

GF4. SEE SPECIFICATIONS FOR MINIMUM CABLING SIZES. INCREASE CONDUCTOR GAUGE ACCORDING TO VOLTAGE DROP CALCULATIONS THAT SHALL BE SUBMITTED BY CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.

GF5. COORDINATE LOCATIONS OF ADDRESSABLE DUCT DETECTORS, ACCESS HATCHES, AIR HANDLER MOTOR CONTROLLERS AND FIRE-SMOKE DAMPERS WITH MECHANICAL INSTALLER DURING PREPARATION OF MECHANICAL AND FIRE ALARM SHOP DRAWINGS. LOCATE ADDRESSABLE DUCT DETECTORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DELIVER DUCT SMOKE DETECTOR BASES AND SAMPLING TUBES TO THE MECHANICAL INSTALLER FOR INSTALLATION ACCORDING TO APPROVED SHOP DRAWINGS. MECHANICAL INSTALLER SHALL PROVIDE ACCESS HATCHES SUCH THAT THE DETECTORS ARE ACCESSIBLE FOR MAINTENANCE. PROGRAM THE ADDRESSABLE DUCT DETECTORS TO ACTIVATE ADDRESSABLE CONTROL MODULES IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS MATRIX. THESE CONTROL FUNCTIONS SHALL BE PERFORMED ONLY BY SUPERVISED ADDRESSABLE CONTROL MODULES LOCATED WITHIN 36" OF THE MOTOR CONTROLLERS OR AC UNITS. PROVIDE INTERPOSING RELAYS AS REQUIRED. COORDINATE CONNECTIONS TO CONTROLLED EQUIPMENT WITH THE MECHANICAL CONTROLS CONTRACTOR.

GF6. COORDINATE LOCATION OF SPEAKERS WITH OTHER CEILING MOUNTED DEVICES (HVAC, SPRINKLERS, ETC), BUT MAINTAIN ADEQUATE SPACING AND QUANTITY TO MEET NFPA AUDIBILITY REQUIREMENTS. INSTALLER IS RESPONSIBLE FOR SETTING AND ADJUSTING SPEAKER TAP SETTINGS AS NECESSARY TO ACHIEVE AUDIBILITY ABOVE AMBIENT NOISE CONDITIONS AS REQUIRED BY NFPA 72.

GF7. THE SYSTEM LAYOUT SHOWS THE INTENT OF THE COVERAGE AND IS SHOWN IN SUGGESTED LOCATIONS. FINAL QUANTITY, LAYOUT AND COORDINATION IS THE RESPONSIBILITY OF THE INSTALLER. FOR ADDITIONAL REQUIREMENTS SEE SPECIFICATIONS.

GF8. PROVIDE INTERFACE OF OS&Y SUPERVISORY VALVE SWITCHES WITH FIRE ALARM SYSTEM. VERIFY QUANTITY AND LOCATIONS. A SEPARATE MONITOR MODULE SHALL BE PROVIDED FOR EACH SWITCH.

GF9. ALL INTERPOSING RELAYS INSTALLED FOR PURPOSE OF CONTROLLING ANCILLARY AND SMOKE CONTROL DEVICES/DOORS SHALL BE 120 VAC COIL UNITS. 120VAC COIL VOLTAGE TO BE PROVIDED BY SAME CIRCUIT AS LOAD DEVICES, "UPSTREAM" OF LOAD CONNECTION.

GF10. INSTALL ALL CEILING MOUNTED DEVICES CENTRALLY LOCATED WITHIN EACH 2'x2' SECTION OF CEILING TILE.

GF11. ALL FIRE ALARM PROGRAMMING MUST BE ACCOMPLISHED BY THE CURRENT VA BOISE FIRE ALARM MAINTENANCE CONTRACTOR (FIRE SENTRY SYSTEMS, 887-4774).

GENERAL COMMUNICATION PLAN NOTES:

GC1. ALL CONDUIT FOR COMMUNICATIONS SYSTEMS SHALL BE 3/4" MINIMUM UNLESS OTHERWISE NOTED.

GC2. ALL SYSTEMS SHOWN ON COMMUNICATIONS PLANS SHALL BE PROVIDED COMPLETE UNLESS OTHERWISE NOTED. CONTRACTOR SHALL INSTALL CONDUIT AND JUNCTION BOXES FOR THE FOLLOWING COMMUNICATIONS SYSTEMS PER THE COMMUNICATION DRAWINGS: VOICE/DATA, PUBLIC ADDRESS, INTERCOM, SECURITY, TELEVISION, AND NURSE CALL. WIRING AND DEVICES SHALL BE INSTALLED BY QUALIFIED CONTRACTORS FOR THESE SYSTEMS.

GC3. MOUNTING HEIGHTS AS INDICATED UNLESS OTHERWISE NOTED ON ARCHITECTURAL DETAILS. CONFIRM ALL HEIGHTS WITH OWNER PRIOR TO INSTALLATION.

GC4. CONTRACTOR SHALL INSTALL 1" CONDUIT FROM OUTLET BOX TO CABLE TRAY IN CORRIDOR CEILING AND STUB OUT FOR TELEPHONE, TELEVISION AND DATA COMMUNICATIONS SYSTEMS CABLES. CABLES NOT ENCLOSED IN CONDUIT SHALL BE SUPPORTED BY THE CABLE TRAY SYSTEM.

GC5. ALL VOISE/DATA STATION CABLES FOR OUTLETS SHALL BE ROUTED FROM THE OUTLET TO THE IDF FOR THAT FLOOR, UNLESS OTHERWISE NOTED.

GC6. TELEVISION CABLES FOR OUTLETS SHALL BE ROUTED FROM THE OUTLETS TO THE TELEVISION SPLITTER FOR THAT FLOOR.

GC7. FOR SECURITY SYSTEM INSTALLATION DETAIL SEE (1/E4.0)

FOR CONSTRUCTION

REVISIONS	DATE

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PROFESSIONAL ENGINEER REGISTERED 9777 11/01/2011 STATE OF IDAHO JOHN HATTEN

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CAD FILE NAME: 531-317_E0.1.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL LEGEND AND ABBREVIATONS

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

DATE: 11/01/2011
PROJECT NO. 531-317

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

BUILDING NUMBER: 85
CHECKED: JH
DRAWN: CLC
LOCATION: VAMC BOISE, IDAHO
DRAWING NO. E0.1
DWG 154 OF 188

DEPARTMENT OF VETERANS AFFAIRS

ELECTRICAL SYMBOLS - DIAGRAM

- DELTA CONNECTION
- MOTOR, SINGLE-PHASE
- MOTOR, THREE-PHASE
- TRANSFORMER
- WYE CONNECTION
- EARTH GROUND
- JUNCTION BOX
- PB — PULL BOX
- PRESSURE SWITCH-CLOSE ON INCREASE
- PRESSURE SWITCH-OPEN ON INCREASE
- SWITCH, MULTIPOSITION
- SWITCH, NORMALLY CLOSED FLOAT
- SWITCH, NORMALLY CLOSED FOOT OPERATED
- SWITCH, NORMALLY CLOSED LIMIT
- SWITCH, NORMALLY CLOSED TEMPERATURE ACTIVATED
- SWITCH, NORMALLY CLOSED TIME DELAY
- SWITCH, NORMALLY OPEN FLOAT
- SWITCH, NORMALLY OPEN LIMIT
- SWITCH, NORMALLY OPEN TEMPERATURE ACTIVATED
- SWITCH, NORMALLY OPEN TIME DELAY
- SWITCH, SINGLE BREAK
- NORMALLY CLOSED RELAY CONTACT
- NORMALLY OPEN RELAY CONTACT
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- O.C.B. — MEDIUM-VOLTAGE OIL CIRCUIT BREAKER
- MEDIUM-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- SWITCH AND FUSE UNIT
- FUSED DRAWOUT POTENTIAL TRANSFORMER
- R 50 — RELAY; LETTER INDICATES RELAY TYPE
  50 = INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE
  51 = AC-TIME OVERCURRENT
  67 = AC-DIRECTIONAL OVERCURRENT
  86 = LOCK OUT
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- FUSIBLE LINK
- VFD — VARIABLE FREQUENCY DRIVE
- G — GENERATOR, POWER
- BATTERY
- CAPACITOR
- POTHEAD
- STRESS CONE
- LIGHTNING ARRESTOR
- R — RECTIFIER, CATHODIC PROTECTION
- M — METER
- A — AMMETER
- V — VOLTMETER
- W — WATTMETER
- WH — WATT-HOUR METER

ELECTRICAL SYMBOLS - POWER PLAN

- T — TRANSFORMER, PLAN
- WYE CONNECTION
- DUCT, CELL FLOOR HEADER
- T T — DUCT, TROLLEY
- DUCT, UNDERFLOOR JUNCTION BOX
- EARTH GROUND
- JUNCTION BOX
- C C — LADDER CABLE TRAY
- BRANCH CIRCUIT HOMERUN. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN.
- PB — PULL BOX
- W W — WIREWAY
- RC — RIGID CONDUIT LINE = RC
- DB — DIRECT BURIAL CABLE = DB
- P — POWER DUCT = P
- S — SUBSTATION
- HVS — HI VOLTAGE SWITCH ON CONCRETE PAD
- LVS — LOW VOLTAGE SWITCH ON CONCRETE PAD
- P T — DUAL POWER AND TELECOMMUNICATIONS MANHOLE
- B B — BUSWAY
- PUSH BUTTON
- DP# — DISTRIBUTION PANEL
- LP — LIGHTING PANEL
- PANELBOARD CABINET, FLUSH MOUNTED
- PANELBOARD CABINET, SURFACE MOUNTED
- C — RECEPTACLE, CLOCK HANGER
- RECEPTACLE, DUPLEX
- E — RECEPTACLE, DUPLEX ON EMERGENCY POWER
- GFI — RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
- RECEPTACLE, QUADRAPLEX
- RECEPTACLE, SINGLE
- S — RECEPTACLE, SINGLE WITH SWITCH
- 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.
- S — RECEPTACLE, SWITCHED DUPLEX
- DROP CORD, SINGLE CONVENIENCE OUTLET, 3-WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6'-6" [1981mm] AFF. MINIMUM).
- ELECTRICAL STRIP MOLD (OUTLETS ON 1'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.
- 3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.
- R 50 — RELAY; LETTER INDICATES RELAY TYPE
  50 = INSTANTANEOUS OVERCURRENT OR RATE-OF-RISE
  51 = AC-TIME OVERCURRENT
  67 = AC-DIRECTIONAL OVERCURRENT
  86 = LOCK OUT
- ELECTRICAL MANHOLE
- SIGNAL MANHOLE
- X — EQUIPMENT BUBBLE. SEE EQUIPMENT SCHEDULE, DRAWING E3.1, FOR EQUIPMENT INDENTIFICATION.

ELECTRICAL SYMBOLS - POWER PLAN

- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH, WITH HAND-OFF-AUTO SWITCH, AND (2) PILOT LIGHTS.
- STARTER OR MOTOR CONTROLLER, WITH HAND-OFF-AUTO SWITCH, AND (2) PILOT LIGHTS.
- VFD — VARIABLE FREQUENCY DRIVE
- TC — TIME CLOCK
- POTHEAD
- STRESS CONE
- R — RECTIFIER, CATHODIC PROTECTION SANITARY
- VENTILATOR OR FAN COIL UNIT OUTLET
- CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.
- CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.
- $2 — 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
- EQUIPMENT CONNECTION
- P — DOOR ACTIVATING PUSHPLATE (+48" AFF UNLESS OTHERWISE NOTED)

ELECTRICAL SYMBOLS - LIGHTING PLAN

- P — SWITCH, CEILING MOUNTED PULL
- $2 — 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
  IC = INTENSITY CONTROL
  2 = DOUBLE POLE
  4 = FOUR-WAY
  K = KEY OPERATED
  L = LOCK
  P = WITH PILOT LIGHT
  RC= REMOTE CONTROL
  WP= WEATHER PROOF
  OS= OCCUPANCY SENSOR
  B = BANK
- $a B a — LOWER CASE SUBSCRIPT LETTER INDICATES SWITCHING
- L PS — SWITCH, LAMP HOLDER POLE
- LIGHT FIXTURE, CEILING MOUNTED, E-EMERGENCY
- A — LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.
- B — LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.
- C — LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x8' [305x2439mm]; LETTER INDICATES TYPE.
- A — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.
- B — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.
- C — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x8' [305x2439mm]; LETTER INDICATES TYPE.
- D — LIGHT FIXTURE, FLUORESCENT EMERGENCY; LETTER INDICATES TYPE.
- E — LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.
- E — LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.
- LIGHT TRACK WITH HEADS AS SHOWN
- S — LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE.
- LIGHT FIXTURE, WALL MOUNTED
- LIGHTING, ONE HEAD EMERGENCY BATTERY POWER
- LIGHTING, TWO HEAD EMERGENCY BATTERY POWER
- LIGHTING, THREE HEAD EMERGENCY BATTERY POWER
- STREET LIGHT WITH BRACKET
- LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE
- LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES
- LIGHT POLE, POST TOP MOUNT LUMINAIRE
- LIGHT POLE, ONE LUMINAIRE
- LIGHT POLE, TWO LUMINAIRES
- LIGHTING, EXTERIOR BUILDING
- EXTERIOR FLOOD LIGHT
- EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
- EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
- LIGHT FIXTURE, BOLLARD
- LIGHT FIXTURE, DIRECTIONAL
- OS — OCCUPANCY SENSOR, DUAL TECHNOLOGY, CEILING MOUNTED
- TC — TIME CLOCK
- PC — PHOTOCELL

REVISIONS	DATE

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PROFESSIONAL ENGINEER — REGISTERED — 9777 — STATE OF IDAHO — JOHN HATTEN — 11/01/11

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CAD FILE NAME: 531-317_E0.2.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL LEGEND

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

DATE: 11/01/2011
PROJECT NO. 531-317

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

DRAWING NO. E0.2

DWG 155 OF 188

FOR CONSTRUCTION

DEPARTMENT OF VETERANS AFFAIRS

COMMUNICATION 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
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
AMB OR A	AMBIENT
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
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	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISTR	DISTRIBUTION
DN	DOWN
DRSW	DOOR SWITCH
DWG	DRAWING
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
ESMT	EASEMENT
EXIST	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
FU SW	FUSED SWITCH
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GTB	GROUND TERMINAL BOX
HOA	HAND–OFF–AUTOMATIC
HT	HEIGHT
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J–BOX	JUNCTION BOX
LF	LINEAR FEET (FOOT)
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEUT OR N	NEUTRAL
NIC	NOT IN CONTRACT
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
REQD	REQUIRED
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SURF	SURFACE
SW	SWITCH
TEL	TELEPHONE
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
WP	WEATHERPROOF

COMMUNICATION SYMBOLS

	OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION
—CATV—	CABLE TELEVISION LINE = CATV
—CCTV—	CLOSED CIRCUIT TELEVISION LINE = CCTV. MINIMUM 1" [25mm] CONDUIT
—FO—	FIBEROPTICS LINE = FO
—T—	TELEPHONE LINE = T
—I—	INTERCOM LINE = I. MINIMUM 3/4" [19mm] CONDUIT.
—S—	SOUND LINE = S
—NC—	NURSE CALL LINE = NC. MINIMUM 3/4" [19mm] CONDUIT.
—R—	RADIO CONDUIT RUN, MINIMUM 3/4" [19mm] CONDUIT.

COMMUNICATION SYMBOLS

	FLOOR RECEPTACLE, TELEPHONE
J	OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS: J = JACK TYPE W = WALL TYPE, MOUNT 48" AFF UNLESS OTHERWISE NOTED.
	OUTLET DATA ONLY
	OUTLET; LETTER INDICATES AS FOLLOWS: A = AUDIO V = VIDEO I = INTERCOM
S	SPEAKER, CEILING MOUNTED.
S	SPEAKER, WALL MOUNTED. 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.
TV	OUTLET, TELEVISION BLANK = 4 11/16" [119mm] MASTER ANTENNA OUTLET BOX WITH (1) RG–6 COAX. C = CAMERA (CCTV SYSTEM), MTD 18" [457mm] AFF M = MONITOR (CCTV SYSTEM).
NCS	NURSE CALL MASTER STATION MTD ON NURSE'S COUNTER TOP UNLESS OTHERWISE NOTED.
NCT	NURSE CALL TERMINAL CABINET.
N 2	NURSE CALL STATION. BLANK = BED SIDE STATION WITH INTEGRAL CODE BLUE BUTTON, PATIENT CALL BUTTON, AND BED COMMUNICATION RECEPTACLE. 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 = EMERGENCY PULLCORD MTD 6'–0" [1829mm] AFF FOR SHOWER LOCATION, MTD 4'–6" [1372mm] AFF FOR TUB LOCATION, & MTD 3'–0" [914mm] AFF FOR TOILET LOCATION. P = PSYCHIATRIC CORRIDOR STATION WITH KEY SWITCH S = AUDIO VISUAL MALL STATION (STAFF) MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED. U = UTILITY CALL STATION, MTD 5'–0" [1524mm] AFF UNLESS OTHERWISE NOTED.
2	NURSE CALL DOME LIGHT. 2 = NURSE CALL DOME LIGHT (SUFFIX INDICATES No OF LAMP) MTD 6" [152mm] ABOVE DOOR. D = CORRIDOR DOME LIGHT. I = AUXILIARY INTERSECTIONAL DOME LIGHT.
ELT	ELAPSED TIMER
	TELEPHONE TERMINAL CABINET
TTB	TELEPHONE BACKBOARD (WALL MOUNTED)
M R	3–POLE TWIST–LOCK RECEPTACLE FOR MICROPHONE, MTD. 4'–6" [1372mm] AFF.
	REMOTE DICTATING OUTLET MTD 1'–6" [457mm] AFF. UNLESS OTHERWISE NOTED.
IC	INTERCOM STATION
IC M	INTERCOM STAFF MASTER STATION.
CT	CABLE TRAY
PM	PRESSURE MONITOR. PROVIDE JUNCTION BOX AT 60" AFF FOR MONITOR, AND (2) JUNCTION BOXES AT 96" AFF FOR PRESSURE SENSORS, WITH 3/4" CONDUIT BETWEEN BOXES AND UP TO ABOVE LAY–IN CEILING. COORDINATE WITH CONTROLS CONTRACTOR.
T	TEMPERATURE SENSOR OR TEMERATURE/HUMIDITY SENSOR. PROVIDE JUNCTION BOX AT 48" AFF, WITH 3/4" CONDUIT UP TO ABOVE LAY–IN CEILING.
S C	SECURITY PROXIMITY CARD READER (+48" AFF)
S P	SECURITY PANIC BUTTON (MOUNT UNDER COUNTER)
S C	SECURITY DOOR CONTACT
S D	SECURITY DOOR LOCK CONNECTION (LOCK BY OTHERS)
S M	SECURITY MOTION SENSOR – ARROW INDICATES DIRECTION OF SENSING; 360° INDICATES SENSING IN ALL DIRECTIONS
SC	SECURITY CAMERA
S K	SECURITY KEYPAD
X	EQUIPMENT BUBBLE. SEE EQUIPMENT SCHEDULE, DRAWING E3.1, FOR EQUIPMENT INDENTIFICATION.

FIRE ALARM SYMBOLS

CR	ADDRESSABLE RELAY MODULE
MM	ADDRESSABLE MONITOR MODULE
F	MANUAL PULL STATION
FACP	FIRE ALARM CONTROL PANEL
F SD	PHOTO ELECTRIC SMOKE DETECTOR W/STANDARD BASE
F DTS	DUCT SMOKE DETECTOR (SAMPLING TUBE TYPE) WITH REMOTE TEST STATION
F LED	LED DUCT DETECTOR INDICATOR AND REMOTE TEST STATION
F S	PHOTO ELECTRIC SMOKE DETECTOR W/HEAT DETECTOR
F HT	HEAT DETECTOR
F X	STROBE 15cd UNLESS NOTED OTHERWISE. CLG – CEILING MOUNTED
F SP	4" CEILING MOUNTED SPEAKER
F SP	4" WALL MOUNTED SPEAKER
DH	DOOR HOLDER 24 VDC
J	NEW JUNCTION BOX / GUTTER BOX
	END OF LINE RESISTOR – VALUE PER MANUFACTURER
NAC	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY
FAA	FIRE ALARM ANUNCIATOR
FATC	FIRE ALARM TERMINAL CABINET
TS	TAMPER SWITCH
FS	FLOW SWITCH
PIV	POST INDICATOR VALVE
D	FIRE SMOKE DAMPER CONNECTION, SEE 3/E4.0

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CAD FILE NAME: 531–317_E0.3.DWG
XREF FILE NAME: 531–317xVAbord.DWG

DRAWING TITLE: ELECTRICAL COMMUNICATIONS LEGEND AND ABBREVIATIONS

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

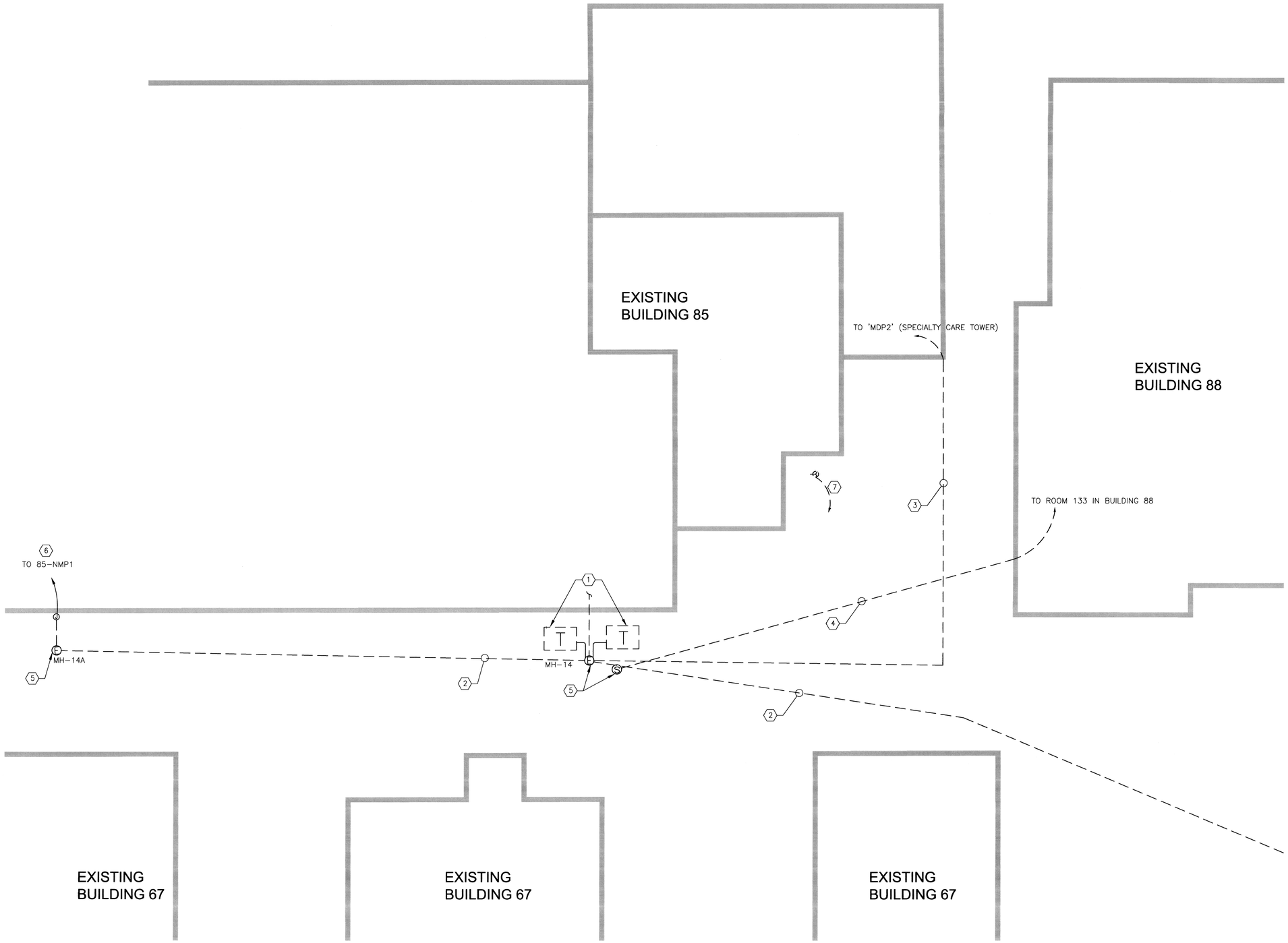
DATE: 11/01/2011
PROJECT NO.: 531–317

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

BUILDING NUMBER: 85
CHECKED: JH
DRAWN: CLC
LOCATION: VAMC BOISE, IDAHO

DRAWING NO.: E0.3
DWG 156 OF 188

FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS



ELECTRICAL SITE PLAN
1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

SHEET KEYNOTES

1. RETAIN AND PROTECT EXISTING PAD MOUNTED TRANSFORMERS.
2. RETAIN AND PROTECT EXISTING MEDIUM VOLTAGE FEEDERS.
3. REMOVE EXISTING ELECTRICAL SERVICE ENTRANCE FROM PAD MOUNTED TRANSFORMER TO SPECIALTY CARE TOWER MAIN DISTRIBUTION PANEL 'MDP2'. PROVIDE NEW FEEDER TO DISTRIBUTION PANEL 'MDP2'; SEE ONE LINE DIAGRAM, DRAWING E3.0, FOR MORE INFORMATION.
4. REMOVE EXISTING SIGNAL LINE (2 1/2"C, WITH THIN NET, 2 PAIR DICTATION, OVERHEAD PAGE, AND FIRE ALARM CABLING) TO ROOM 133 IN BUILDING 88. FURNISH AND INSTALL NEW SIGNAL LINE; MATCH EXISTING CONDUIT AND CABLING SIZE AND TYPE.
5. RETAIN AND PROTECT EXISTING ELECTRICAL AND SIGNAL MANHOLES.
6. NEW FEEDER TO '85-NMP1'. PROVIDE NEW CONDUCTORS IN EXISTING 4" UNDERGROUND CONDUITS FROM SWITCHBOARD '85-ND11' TO MANHOLE MH-14 AND FROM MH-14 TO MANHOLE MH-14A. PROVIDE NEW FEEDER CONDUIT AND CONDUCTORS FROM MH-14A UP BUILDING EXTERIOR AND ACROSS ROOF TO RE-FEED '85-NMP1'. SEE ONE LINE DIAGRAM, DRAWING E3.0, FOR MORE INFORMATION.
7. REMOVE EXISTING STORM SEWER PUMP RECEPTACLE, AND ALL ASSOCIATED ELECTRICAL, CONDUIT, AND CONDUCTORS.

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CAD FILE NAME: 531-317_E0.4.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL SITE PLAN

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

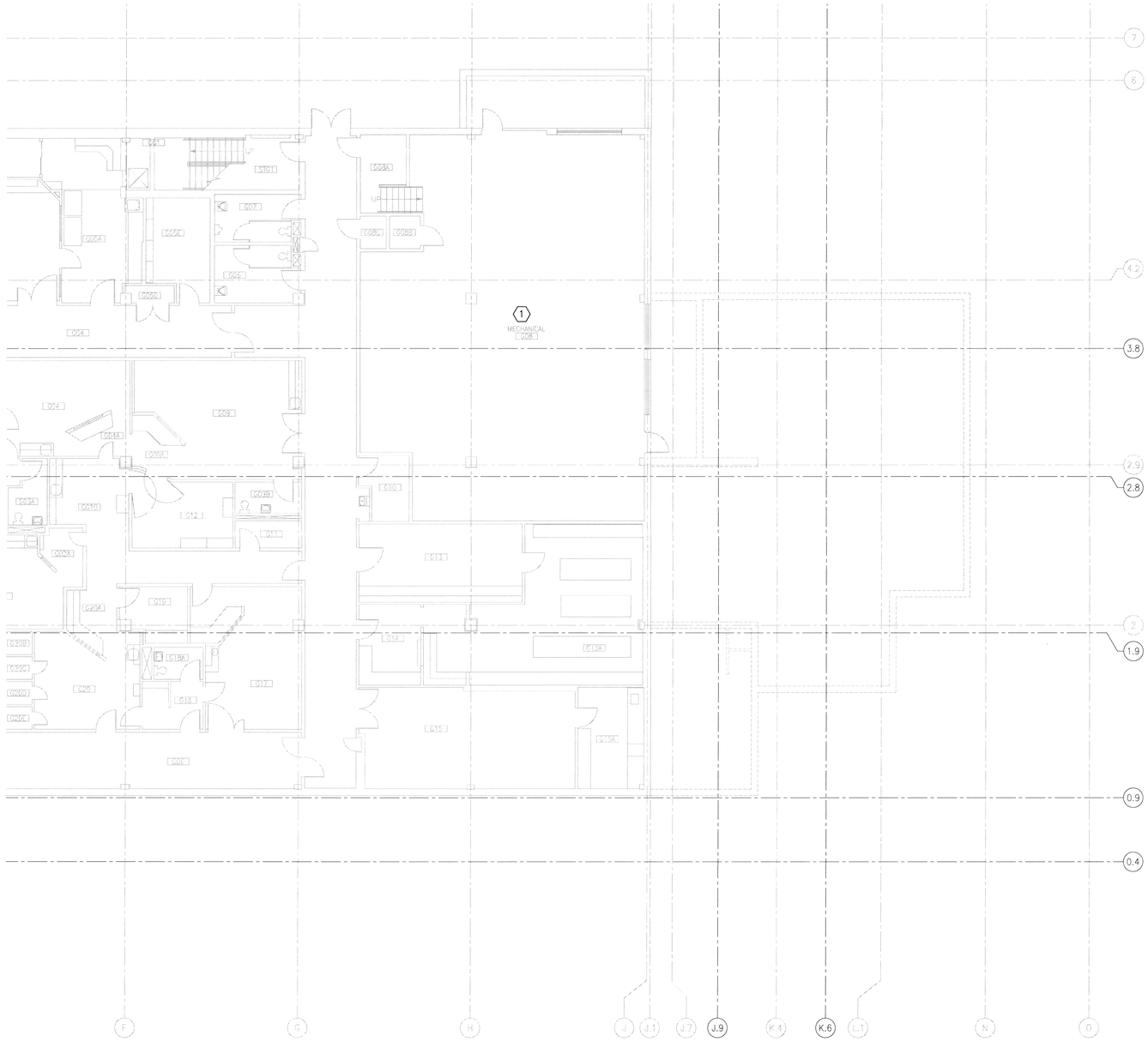
DATE: 11/01/2011
PROJECT NO.: 531-317

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

BUILDING NUMBER: 85
CHECKED: JH
DRAWN: CLC
LOCATION: VAMC BOISE, IDAHO

DRAWING NO.: E0.4
DWG 157 OF 188

DEPARTMENT OF VETERANS AFFAIRS



LINETYPE LEGEND
EXISTING TO REMAIN
DEMO

GENERAL SHEET NOTES

A. RETAIN AND PROTECT ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

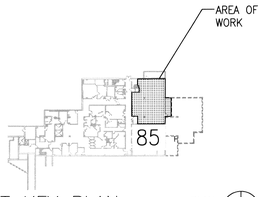
SHEET KEYNOTES

1. RETAIN AND PROTECT EXISTING ELECTRICAL IN BASEMENT MECHANICAL ROOM UNLESS OTHERWISE NOTED. RELOCATE EXISTING ELECTRICAL AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL EQUIPMENT; SEE BASEMENT ELECTRICAL PLAN, DRAWING E2.0, FOR MORE INFORMATION.

BASEMENT ELECTRICAL DEMOLITION PLAN
1/8"=1-0"

0 4' 8' 16'

PLAN NORTH



BASEMENT KEY PLAN
NOT TO SCALE

PLAN NORTH

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CAD FILE NAME: 531-317_E1.0.DWG
XREF FILE NAME: 85A0FL.DWG 85A1FL KEY PLAN.DWG 85_GRID.DWG 531-317xVAbord.DWG _COLUMNS.DWG

DRAWING TITLE: BASEMENT ELECTRICAL DEMOLITION PLAN

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

DATE: 11/01/2011
PROJECT NO.: 531-317

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

BUILDING NUMBER: 85 | CHECKED: CLC | DRAWN: JH

LOCATION: VAMC BOISE, IDAHO

DRAWING NO.: E1.0

DWG 158 OF 188

DEPARTMENT OF VETERANS AFFAIRS

LINETYPE LEGEND

EXISTING TO REMAIN	
DEMO	— — — — — — — — — —

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

SHEET KEYNOTES

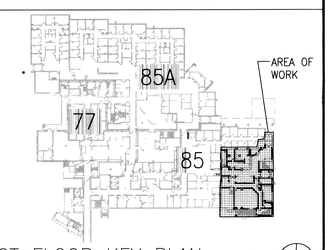
1. PROVIDE SUPPORT FOR EXISTING LIGHTING FIXTURES IN ELECTRICAL ROOM DURING REMOVAL OF CEILING AND ROOF DURING CONSTRUCTION. MAINTAIN ROOM LIGHTING THROUGHOUT DURATION OF PROJECT.

FIRST FLOOR LIGHTING DEMOLITION PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH



FIRST FLOOR KEY PLAN

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CAD FILE NAME: 531-317_EL1.1.DWG

XREF FILE NAME: 85A1FL.DWG, 85A1FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: FIRST FLOOR LIGHTING DEMOLITION PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

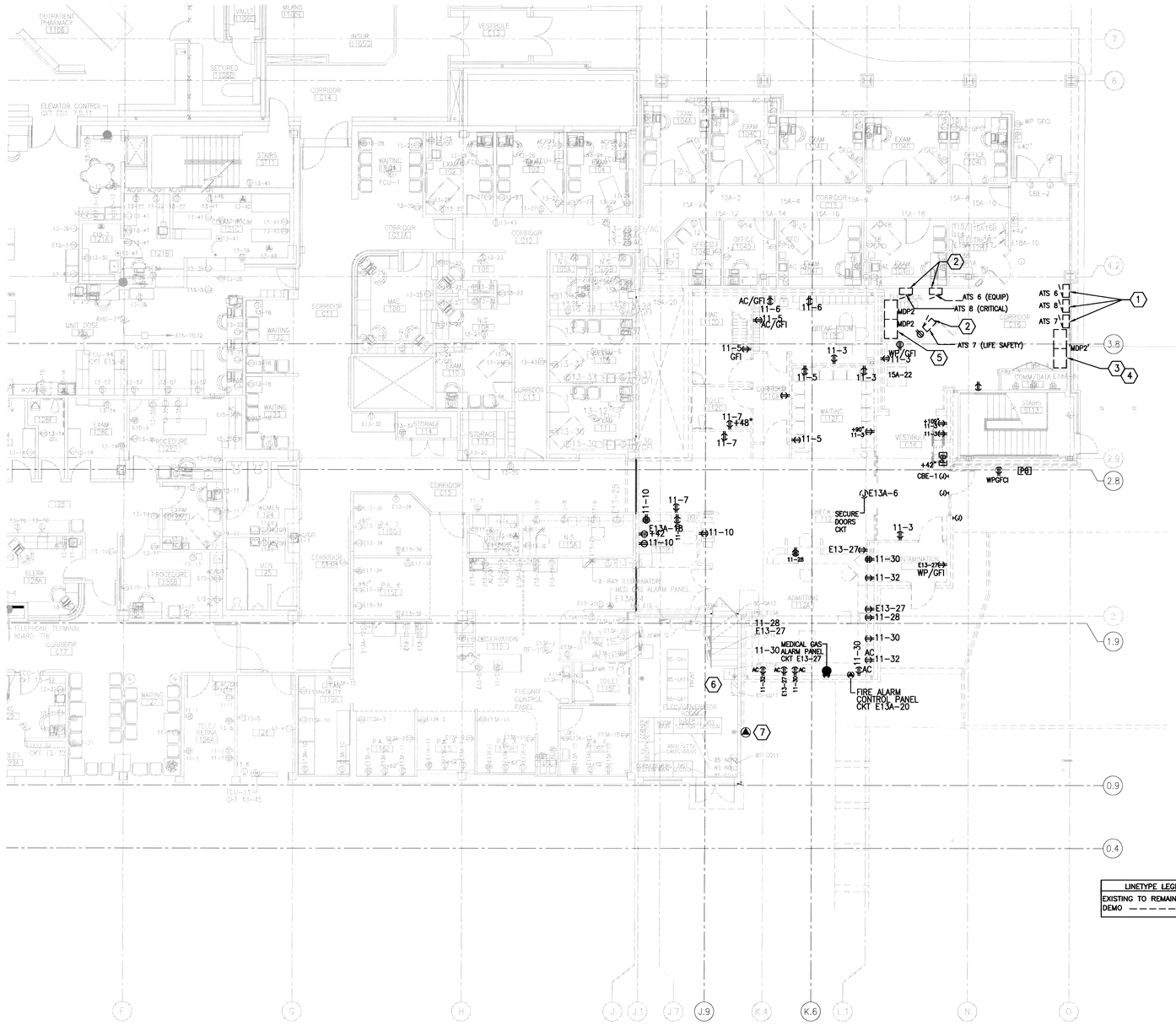
DATE: 11/01/2011

PROJECT NO.: 531-317

DRAWING NO.: EL1.1

DWG 159 OF 188

DEPARTMENT OF VETERANS AFFAIRS



LINETYPE LEGEND

EXISTING TO REMAIN	
DEMO	— — — — — — — —

FIRST FLOOR POWER DEMOLITION PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

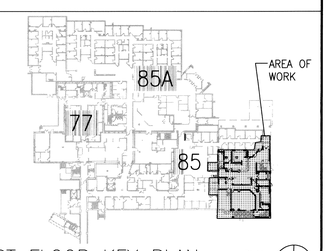
D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

F. COORDINATE WORK TO MINIMIZE ELECTRICAL DOWNTIME. SCHEDULE POWER SHUTDOWNS DURING WEEKENDS OR OFF HOURS – SCHEDULE WITH VA COTR.

SHEET KEYNOTES

1. TEMPORARY LOCATION OF AUTOMATIC TRANSFER SWITCHES ATS-6, ATS-7, AND ATS-8 DURING CONSTRUCTION. RELOCATE AUTOMATIC TRANSFER SWITCHES; EXTEND AND RECONNECT EXISTING CIRCUITS; SEE ONE LINE DIAGRAM, DRAWING E3.0, FOR CIRCUIT INFORMATION.
2. RELOCATE AUTOMATIC TRANSFER SWITCHES OUT OF ELECTRICAL ROOM DURING 112G CONSTRUCTION TO FACILITATE INSTALLATION OF STRUCTURAL GRADE BEAM. KEEP CIRCUITING ACTIVE; SEE ALSO KEYNOTE 1. REINSTALL IN ELECTRICAL 112G AFTER GRADE BEAM IS INSTALLED; SEE DRAWING EP2.1.
3. FURNISH AND INSTALL TEMPORARY 'MDP2' DURING CONSTRUCTION. EXTEND AND RECONNECT EXISTING FEEDERS; SEE ONE LINE DIAGRAM, DRAWING E3.0, FOR CIRCUIT INFORMATION.
4. FURNISH AND INSTALL NEW 1200 AMP FEEDER FROM NORMAL SWITCHBOARD '85-ND11' TO TEMPORARY 'MDP2'. ROUTE OVERHEAD THROUGH CEILING SPACE OF ELECTRICAL 112G TO FACILITATE CONNECTION TO PERMANENT 'MDP2' AFTER STRUCTURAL AND ARCHITECTURAL CONSTRUCTION IN ELECTRICAL 112G IS COMPLETE,
5. REMOVE 'MDP2' DURING CONSTRUCTION TO FACILITATE INSTALLATION OF STRUCTURAL GRADE BEAM. RE-INSTALL IN ELECTRICAL 112G; SEE DRAWING EP2.1.
6. PROVIDE SUPPORT FOR EXISTING ELECTRICAL CONDUITS, JUNCTION BOXES, AND TRANSFORMER T3 IN ELECTRICAL ROOM DURING REMOVAL OF CEILING AND ROOF DURING CONSTRUCTION. MAINTAIN FUNCTIONALITY OF ELECTRICAL ROOM THROUGHOUT DURATION OF PROJECT.
7. ANTENNA FOR ADVANCE ELECTRICAL METERING SYSTEM. RELOCATE TO PENTHOUSE LEVEL; SEE DRAWING E2.4.



FIRST FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

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CAD FILE NAME: 531-317_EP1.1.DWG

XREF FILE NAME: 85A1FL KEY PLAN.DWG, 85A1FL MASTER.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: FIRST FLOOR POWER DEMOLITION PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

DATE: 11/01/2011

PROJECT NO.: 531-317

DRAWING NO.: EP1.1

DWG 160 OF 188

DEPARTMENT OF VETERANS AFFAIRS

FIRST FLOOR COMMUNICATIONS AND FIRE ALARM DEMOLITION PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

LINETYPE LEGEND
EXISTING TO REMAIN
DEMO ----------

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

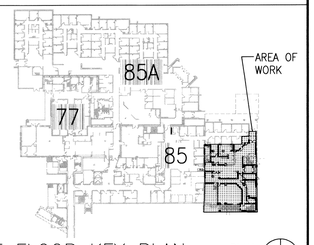
C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

SHEET KEYNOTES

1. FURNISH AND INSTALL TELEPHONE/DATA OUTLET IN TEMP. MAS DURING CONSTRUCTION.
2. TEMPORARY LOCATION OF FIRE ALARM REMOTE ANNUNCIATOR, MEDICAL GAS ALARM PANEL, AND SWITCH TO ACTIVATE DISASTER HORN.
3. RELOCATE MEDICAL GAS ALARM PANEL, AND DISASTER HORN SWITCH; EXTEND AND RECONNECT EXISTING CIRCUITS. SEE KEYNOTE 2, THIS DRAWING, FOR TEMPORARY LOCATION DURING CONSTRUCTION. SEE DRAWING EC2.1 FOR FINAL LOCATION.
4. RELOCATE FIRE ALARM CONTROL PANEL TO ELECTRICAL 117. EXTEND AND RECONNECT EXISTING CIRCUITS. SEE ALSO FIRST FLOOR FIRE ALARM PLAN, DRAWING FA2.1 FOR NEW LOCATION.
5. RELOCATE EXISTING SECURITY CAMERA; EXTEND AND RECONNECT EXISTING CIRCUITS. SEE FIRST FLOOR COMMUNICATIONS PLAN, DRAWING EC2.1, FOR NEW LOCATION.
6. RELOCATE EXISTING INTERCOM/CAMERA DEVICE AND CENTRAL STATION MONITOR; EXTEND AND RECONNECT EXISTING CIRCUITS. SEE FIRST FLOOR COMMUNICATIONS PLAN, DRAWING EC2.1, FOR NEW LOCATION.
7. PROVIDE TEMPORARY SECURITY CAMERAS DURING CONSTRUCTION OF FIRST FLOOR ADMITTING AREA, TO VIDEO FROM FRONT ENTRY TO TEMPORARY ADMITTING DESK.
8. FURNISH AND INSTALL SECURITY PANIC BUTTON/DURESS ALARM IN TEMP. MAS AND ADMITTING DURING CONSTRUCTION. REMOVE AFTER CONSTRUCTION IS COMPLETE.
9. REMOVE EXISTING SMOKE DETECTORS IN ELECTRICAL ROOM DURING REMOVAL OF CEILING AND ROOF. RE-INSTALL AND RECONNECT TO EXISTING CIRCUITS AFTER ROOM CONSTRUCTION IS COMPLETE.



FIRST FLOOR KEY PLAN

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PLAN NORTH

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CAD FILE NAME: 531-317_EC1.1.dwg

XREF FILE NAME: 85A1FL KEY PLAN.DWG, 85A1FL MASTER.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: FIRST FLOOR COMMUNICATION AND FIRE ALARM DEMOLITION PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

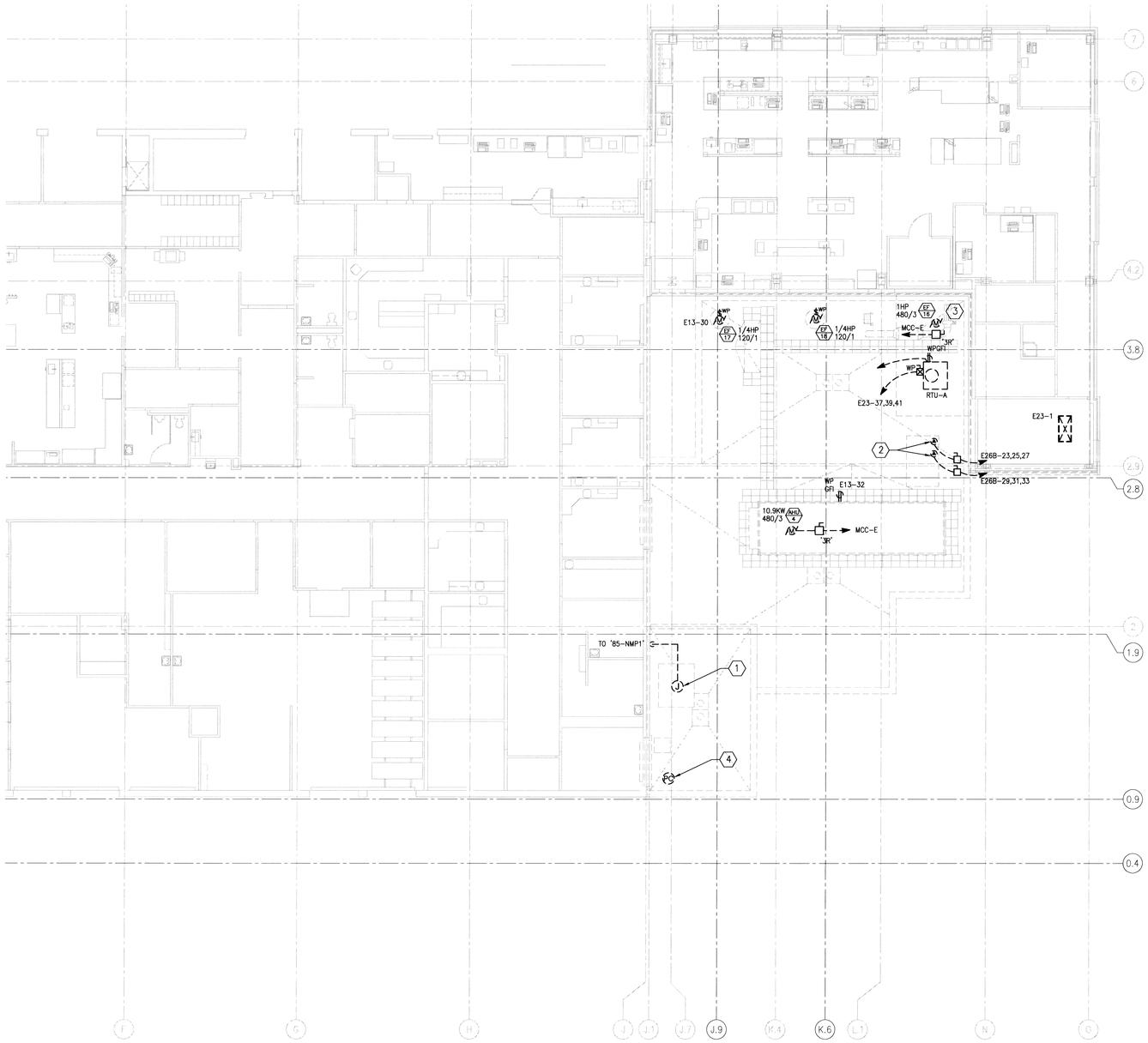
DATE: 11/01/2011

PROJECT NO.: 531-317

DRAWING NO.: EC1.1

DWG 161 OF 188

DEPARTMENT OF VETERANS AFFAIRS



SECOND FLOOR ELECTRICAL DEMOLITION PLAN
1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

LINETYPE LEGEND	
EXISTING TO REMAIN	————
DEMO	— — — — — —

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

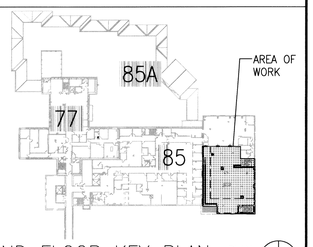
C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

SHEET KEYNOTES

1. REMOVE EXISTING FEEDER FROM NORMAL SWITCHBOARD '85-ND11' TO '85-NMP1' (OLD 'MCC-B'). SEE ALSO ELECTRICAL SITE PLAN, DRAWING E0.4, PENTHOUSE AND ROOF ELECTRICAL PLAN, DRAWING E2.4, AND ONE LINE DIAGRAM, DRAWING E3.0, FOR MORE INFORMATION.
2. REFRIGERATION UNITS FOR SECOND FLOOR LAB BLOOD STORAGE REFRIGERATOR TO BE RELOCATED TO UPPER ROOF BY THE MECHANICAL CONTRACTOR. EXTEND CIRCUITS TO NEW LOCATION; SEE PENTHOUSE AND ROOF ELECTRICAL PLAN, DRAWING E2.4, FOR MORE INFORMATION.
3. EXHAUST FAN EF-16 TO BE RELOCATED TO UPPER ROOF BY THE MECHANICAL CONTRACTOR. EXTEND CIRCUITS TO NEW LOCATION; SEE PENTHOUSE AND ROOF ELECTRICAL PLAN, DRAWING E2.4, FOR MORE INFORMATION.
4. RELOCATE EXISTING PHOTOCELL UP TO PENTHOUSE ROOF. EXTEND AND RECONNECT EXSITING CIRCUIT. SEE DRAWING E2.4 FOR NEW LOCATION.



SECOND FLOOR KEY PLAN
NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

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322 EAST FRONT STREET, SUITE 200, BOISE, ID 83702

PROFESSIONAL ENGINEER REGISTERED 9777 STATE OF IDAHO JOHN HATTEN

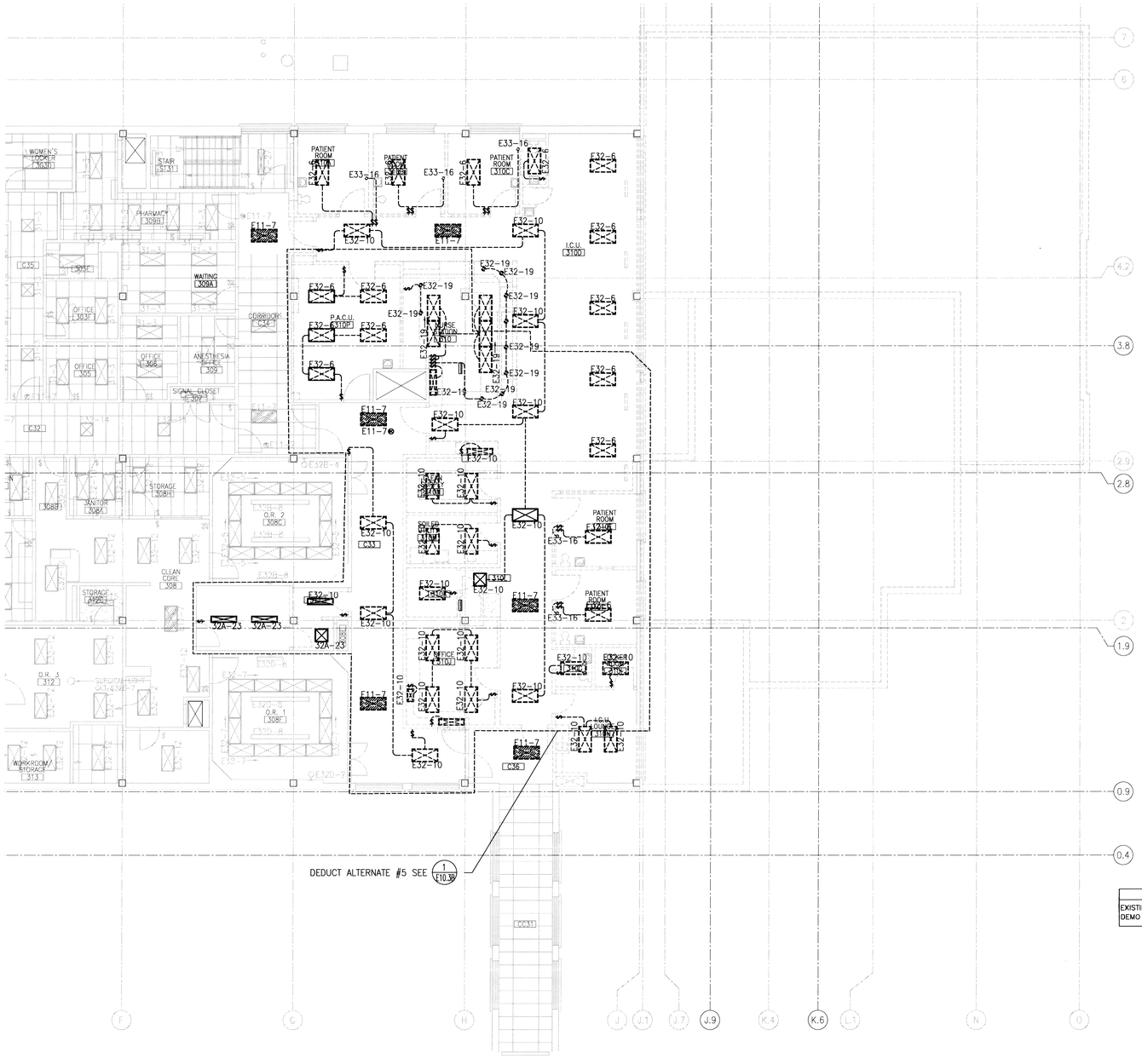
ZGA. Architects and Planners, Chartered
565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606

CAD FILE NAME: 531-317_E1.2.DWG

XREF FILE NAME: 85A2FL.DWG, 85A2FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE	PROJECT TITLE	DATE
SECOND FLOOR ELECTRICAL DEMOLITION PLAN	REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT	11/01/2011
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER: 85 / CHECKED: JH / DRAWN: CLC	PROJECT NO. 531-317
APPROVED: MEDICAL CENTER DIRECTOR	LOCATION: VAMC BOISE, IDAHO	DRAWING NO. E1.2
		DWG 162 OF 188

DEPARTMENT OF VETERANS AFFAIRS



LINETYPE LEGEND

EXISTING TO REMAIN	
DEMO	- - - - - - - -

THIRD FLOOR LIGHTING DEMOLITION PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

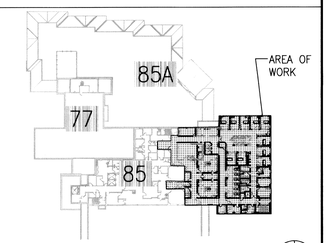
C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

SHEET KEYNOTES

1. NOT USED



THIRD FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

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CAD FILE NAME: 531-317_EL1.3.DWG

XREF FILE NAME: 85A3FL.DWG, 85A3FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: THIRD FLOOR LIGHTING DEMOLITION PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

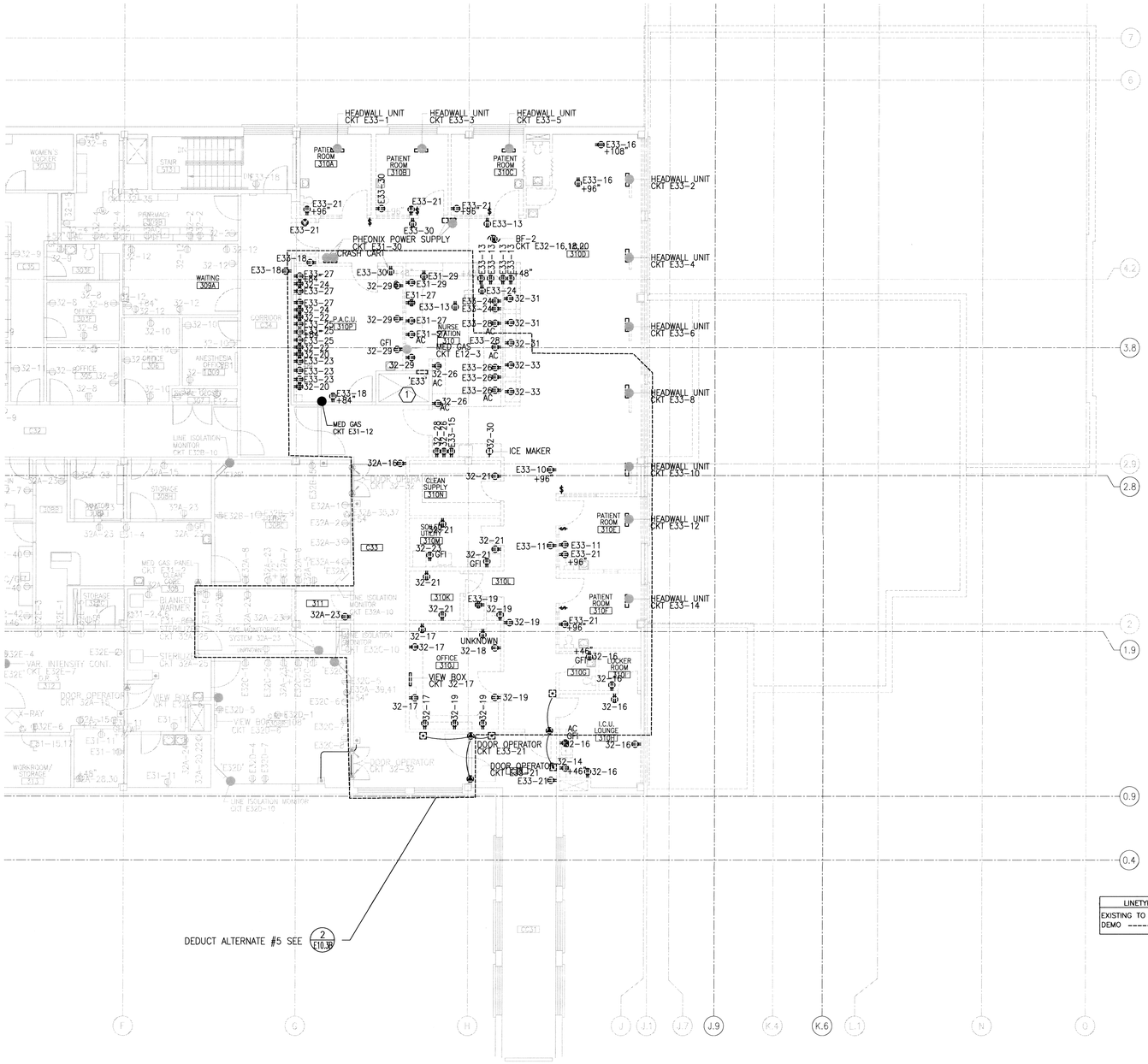
DATE: 11/01/2011

PROJECT NO. 531-317

DRAWING NO. EL1.3

DWG 163 OF 188

DEPARTMENT OF VETERANS AFFAIRS



LINETYPE LEGEND

EXISTING TO REMAIN	
DEMO	- - - - - - - - - -

THIRD FLOOR POWER DEMOLITION PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

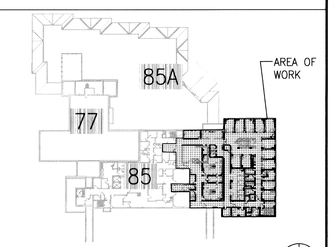
C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

SHEET KEYNOTES

1. REMOVE EXISTNG PANELBOARD 'E33' AND FEEDER CONDUIT AND CONDUCTORS BACK TO SOURCE.



THIRD FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

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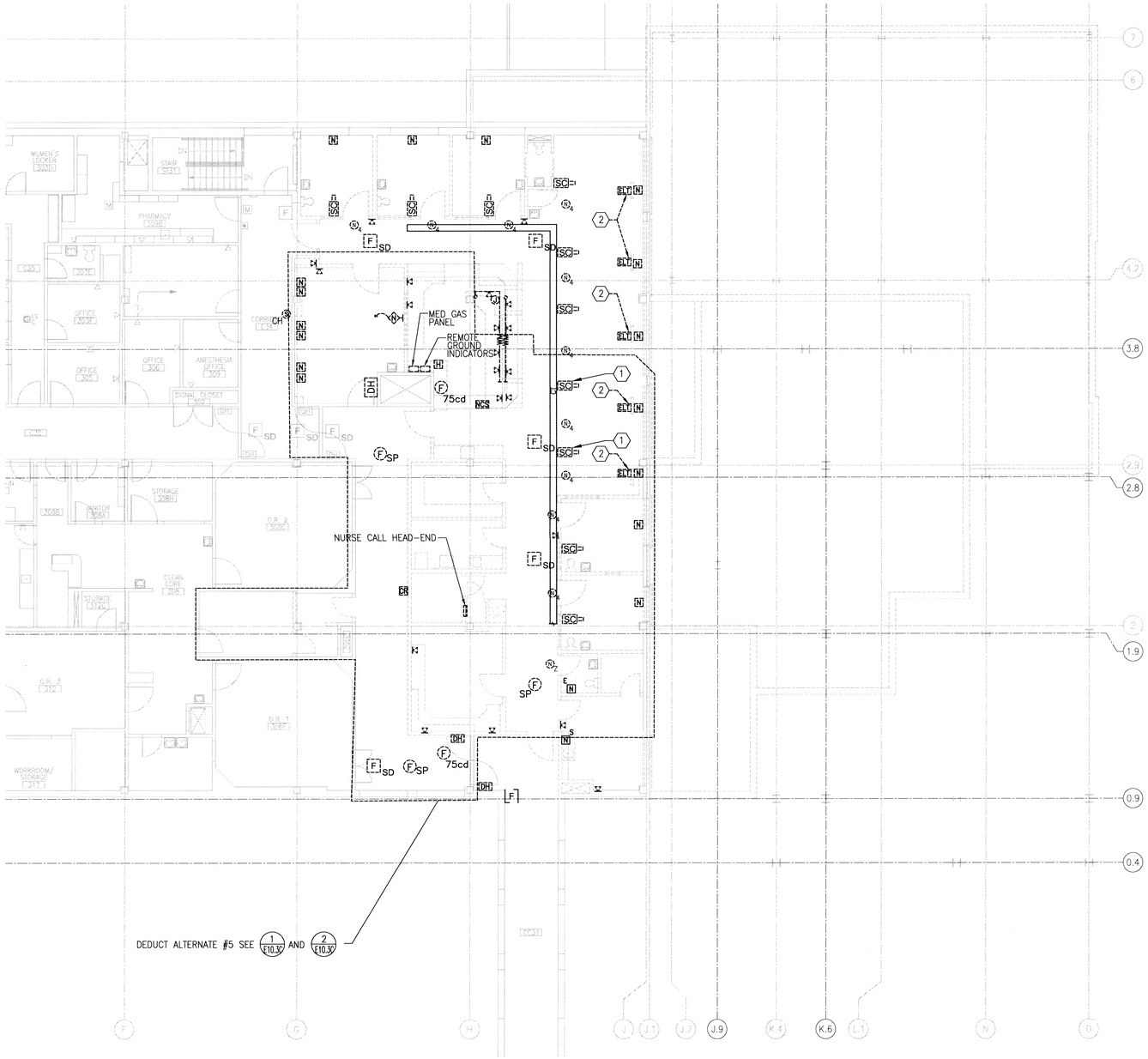
CAD FILE NAME: 531-317_EP1.3.DWG

XREF FILE NAME: 85A3FL.DWG, 85A3FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: THIRD FLOOR POWER DEMOLITION PLAN	PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT			DATE: 11/01/2011
				PROJECT NO.: 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER: 85	CHECKED: JH	DRAWN: CLC	DRAWING NO.: EP1.3
APPROVED: MEDICAL CENTER DIRECTOR	LOCATION: VAMC BOISE, IDAHO			DWG 164 OF 188

DEPARTMENT OF VETERANS AFFAIRS



LINETYPE LEGEND
EXISTING TO REMAIN
DEMO

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF WORK UNLESS OTHERWISE NOTED TO REMAIN. ELECTRICAL DEMOLITION SHALL INCLUDE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, CONDUIT, CONDUCTORS, HARDWIRE CONNECTIONS, BOXES, DEVICE PLATES, FIRE ALARM DEVICES, NURSE CALL SYSTEM DEVICES, TELEPHONE/DATA OUTLET AND CABLING, SECURITY DEVICES, PUBLIC ADDRESS/INTERCOM DEVICES, ETC. SPECIFIC ELECTRICAL DEMOLITION MAY NOT BE SHOWN. LIGHT FIXTURES SHALL BE PROPERLY DISPOSED OF ACCORDING TO FEDERAL AND STATE REGULATIONS.

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C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

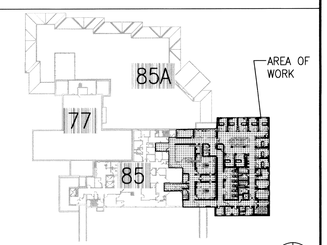
D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. REFERENCE ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING INFORMATION.

SHEET KEYNOTES

1. RELOCATE EXISTING SECURITY CAMERA; RE-USE IN NEW ICU PATIENT ROOMS 5 AND EIGHT. COORDINATE WITH VA COTR.

2. SALVAGE EXISTING ELAPSED TIME CLOCKS FROM ICU UTILITY COLUMNS. RE-USE IN NEW ICU PATIENT ROOMS, SEE THIRD FLOOR COMMUNICATIONS PLAN, DRAWING EC2.3, FOR NEW LOCATIONS.



THIRD FLOOR KEY PLAN
NOT TO SCALE

PLAN NORTH

THIRD FLOOR COMMUNICATIONS AND FIRE ALARM DEMOLITION PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

FOR CONSTRUCTION

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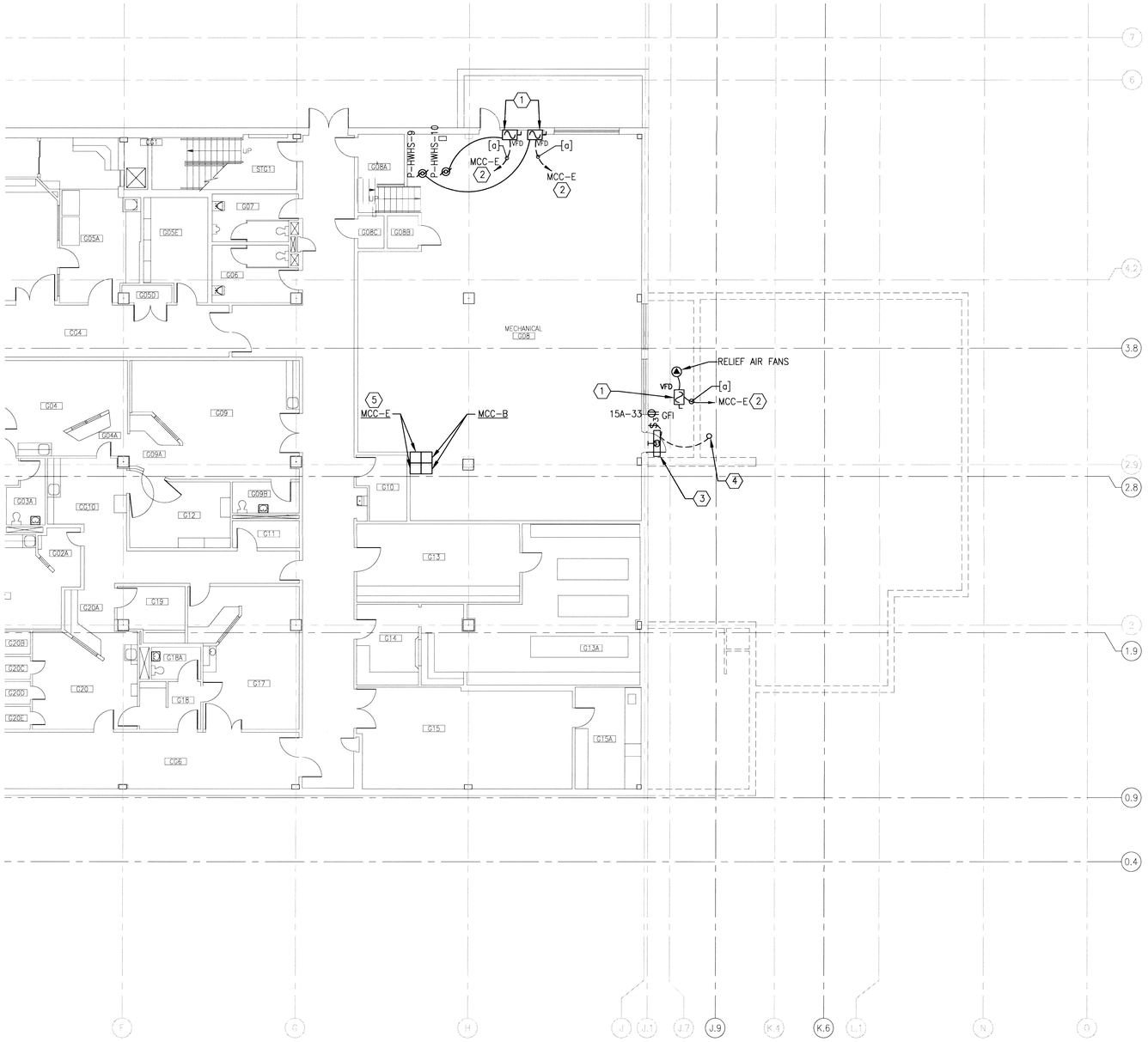
CAD FILE NAME: 531-317_EC1.3.DWG
XREF FILE NAME: 85A3FL.DWG, 85A3FL_KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE	PROJECT TITLE	DATE
THIRD FLOOR COMM AND FIRE ALARM DEMOLITION PLAN	REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT	11/01/2011
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER: 85 / CHECKED: JH / DRAWN: CLC	PROJECT NO. 531-317
APPROVED: MEDICAL CENTER DIRECTOR	LOCATION: VAMC BOISE, IDAHO	DRAWING NO. EC1.3
		DWG 165 OF 188

DEPARTMENT OF VETERANS AFFAIRS



BASEMENT ELECTRICAL PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR EQUIPMENT SCHEDULE. SEE DRAWINGS E3.1, E3.2 AND E3.3 FOR PANEL SCHEDULES.

B. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. PROVIDE, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUITS SHOWN. PROVIDE 12 AWG PHASE AND INDIVIDUAL NEUTRAL CONDUCTORS WITH #12 AWG GROUND FOR 20 AMP CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE # 10 AWG CONDUCTORS FOR PHASE, NEUTRAL AND GROUND ON 20 AMP CIRCUITS GREATER THAN 75-FEET. SEE ALSO DETAIL 2/DRAWING E4.1.

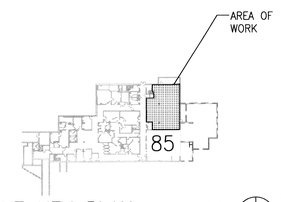
C. FOR TYPICAL POWER AND COMMUNICATION BACK BOX INSTALLATION, SEE DETAIL 1/DRAWING E4.1.

D. CONNECT BRANCH CIRCUITS TO EXISTING PANELS IN ELECTRICAL 112G, UNLESS OTHERWISE NOTED. CONNECT TO EXISTING 20 AMP, 1 POLE SPARE BREAKERS, UNLESS OTHERWISE NOTED. FIELD VERIFY CIRCUIT NUMBERS.

SHEET KEYNOTES

1. VARIABLE FREQUENCY DRIVE AND DISCONNECT SWITCH FURNISHED WITH MECHANICAL EQUIPMENT, AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE 30 AMP/3 POLE BREAKER IN EXISTING 480 VOLT EMERGENCY MOTOR CONTROL CENTER MCC-E IN BASEMENT MECHANICAL ROOM. MATCH EXISTING BREAKER TYPE AND AIC RATING.
3. WALL MOUNT AT +96" ABOVE FINISHED FLOOR.
4. UP TO LIGHT FIXTURE ABOVE; SEE FIRST FLOOR LIGHTING PLAN, DRAWING EL2.1.
5. PROVIDE (2) NEW BUCKETS IN EXISTING SYLVANIA/CLARK CONTROL MOTOR CONTROL CENTER FOR NEW CIRCUIT BREAKERS.

CIRCUIT SCHEDULE
[a] – 3/4"C, 3#10, 1#10G



BASEMENT KEY PLAN
NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

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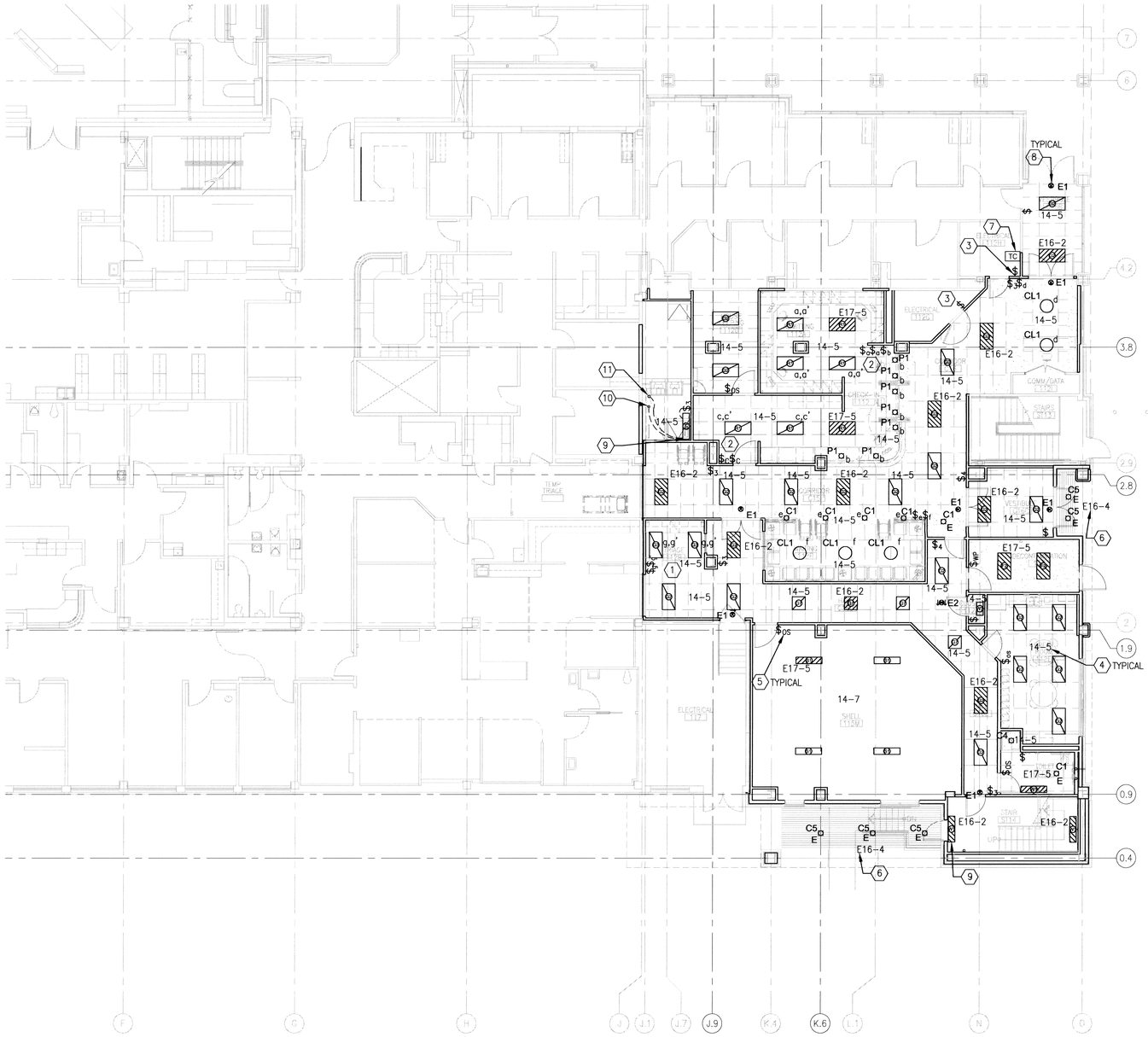
CAD FILE NAME: 531-317_E2.0.DWG
XREF FILE NAME: 85A0FL.DWG, 85A1FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, 85E0PO.DWG

DRAWING TITLE: BASEMENT ELECTRICAL PLAN
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
BUILDING NUMBER: 85
CHECKED: CLC
DRAWN: JH
LOCATION: VAMC BOISE, IDAHO

DATE: 11/01/2011
PROJECT NO.: 531-317
DRAWING NO.: E2.0
DWG 166 OF 188

DEPARTMENT OF VETERANS AFFAIRS



FIRST FLOOR LIGHTING PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR LUMINAIRE SCHEDULE.

B. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH SHOWN.

C. COORDINATE LOCATION AND INSTALLATION OF LIGHTING FIXTURES WITH OTHER CONSTRUCTION THAT PENETRATES OR IS SUPPORTED BY CEILINGS.

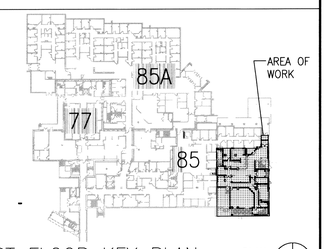
D. COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

E. FOR STANDARD LIGHTING WIRING METHODS, SEE DETAIL 3/DRAWING E4.1.

F. CONNECT FIRST FLOOR LIGHTING CIRCUITS TO EXISTING PANELBOARDS IN ELECTRICAL 112H. CONNECT TO EXISTING 20 AMP/1 POLE SPARE BREAKERS; FIELD VERIFY CIRCUIT NUMBERS.

SHEET KEYNOTES

1. PROVIDE DUAL LEVEL SWITCHING WITH CENTER LAMPS ON ONE SWITCH AND OUTER LAMPS ON SECOND SWITCH. SEE DETAIL 4/DRAWING E4.1.
2. PROVIDE DUAL SWITCH CONTROL FOR STEP DIMMING TYPE 'R1' LIGHTING FIXTURES.
3. FURNISH AND INSTALL NEW SWITCH TO CONTROL LIGHTING WITHIN ROOM. CONNECT TO EXISTING CIRCUIT.
4. PANEL AND CIRCUIT TYPICAL FOR ALL LUMINAIRES IN ROOM, EXCEPT AS NOTED.
5. OCCUPANCY SENSOR CONTROLS ALL NORMAL POWER LIGHTING IN ROOM. SEE DETAIL 5/DRAWING E4.1.
6. ROUTE EXTERIOR LIGHTING CIRCUIT VIA CONTACTOR ON ASTRONOMIC 7-DAY TIME CLOCK. SEE ALSO NOTE 7.
7. ELECTRONIC ASTRONOMIC 7-DAY TIME CLOCK, 2 CIRCUIT SPST, NEMA '1' ENCLOSURE. PROGRAM EXTERIOR LIGHTING CIRCUIT TO TURN ON AT SUNSET AND OFF AT SUNRISE (CONFIRM TIME WITH VA).
8. CONNECT EXIT SIGNS TO LIFE SAFETY CIRCUIT E16-6. TYPICAL FOR ALL NEW FIRST FLOOR EXIT SIGNS.
9. WALL MOUNT AT +96" ABOVE FINISHED FLOOR.
10. DOWN TO LIGHT FIXTURE BELOW; SEE BASEMENT ELECTRICAL PLAN, DRAWING E2.0.
11. UP TO LIGHT FIXTURES ABOVE; SEE SECOND FLOOR ELECTRICAL PLAN, DRAWING E2.2.



FIRST FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

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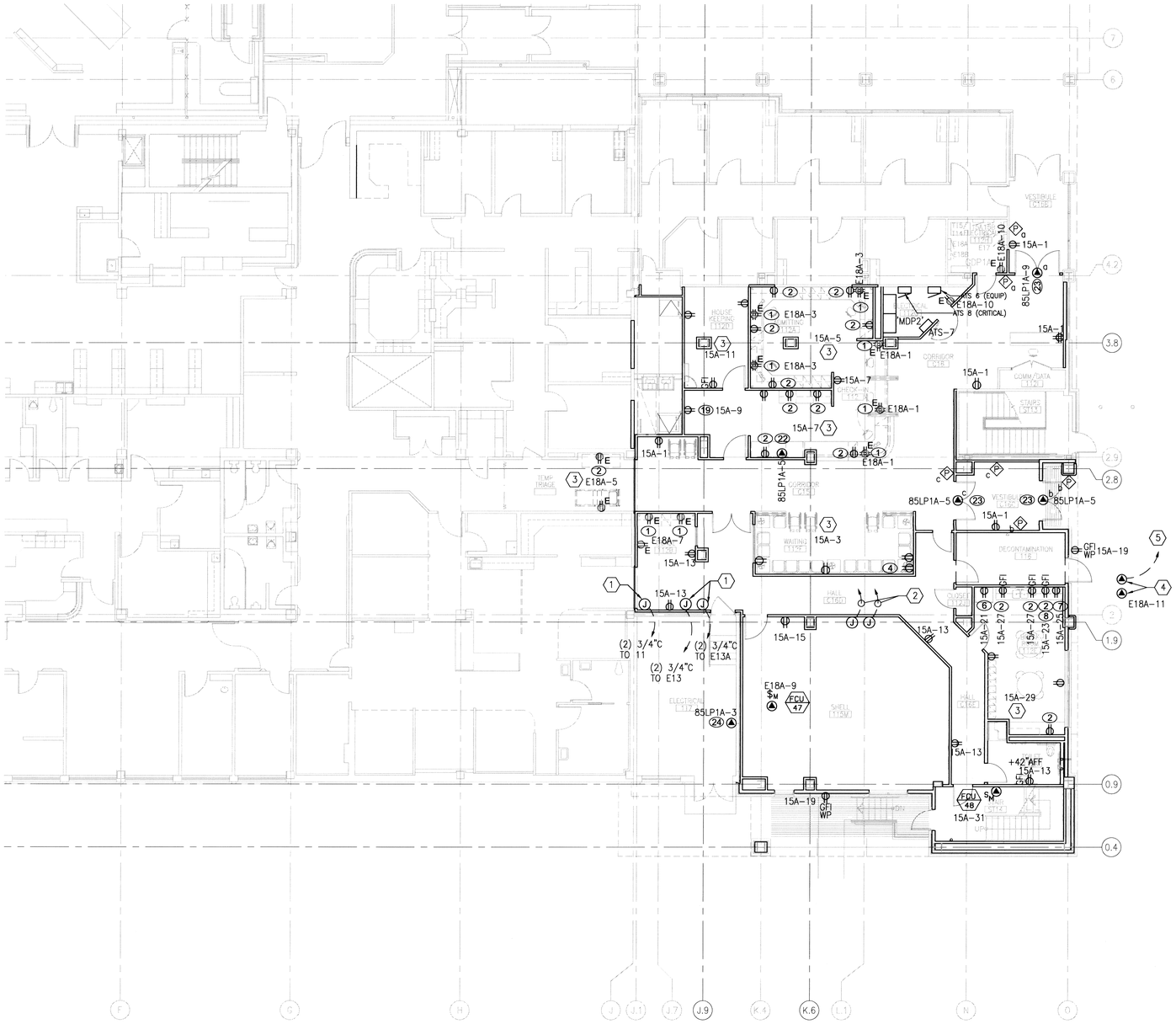
CAD FILE NAME: 531-317_EL2.1.DWG

XREF FILE NAME: 85A1FL.DWG, 85AFL KEY PLAN.DWG, 85AFL MASTER.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE	FIRST FLOOR LIGHTING PLAN
PROJECT TITLE	REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE	11/01/2011
PROJECT NO.	531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	
BUILDING NUMBER	85
CHECKED	JH
DRAWN	CLC
DRAWING NO.	EL2.1
APPROVED: MEDICAL CENTER DIRECTOR	
LOCATION	VAMC BOISE, IDAHO
DWG 167 OF 188	

DEPARTMENT OF VETERANS AFFAIRS



FIRST FLOOR POWER PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR EQUIPMENT SCHEDULE. SEE DRAWINGS E3.1, E3.2, AND E3.3 FOR PANEL SCHEDULES.

B. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. PROVIDE, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUITS SHOWN. PROVIDE 12 AWG PHASE AND INDIVIDUAL NEUTRAL CONDUCTORS WITH #12 AWG GROUND FOR 20 AMP CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE # 10 AWG CONDUCTORS FOR PHASE, NEUTRAL AND GROUND ON 20 AMP CIRCUITS GREATER THAN 75-FEET. SEE ALSO DETAIL 2/DRAWING E4.1.

C. RECEPTACLES SHOWN AT COUNTERS ADJACENT TO SINKS SHALL BE MOUNTED 6-INCHES ABOVE COUNTER SURFACE UNLESS OTHERWISE NOTED.

D. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

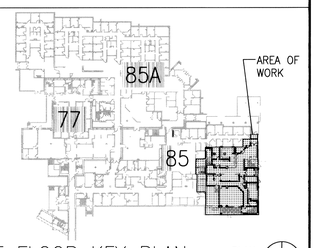
E. GENERAL NOTE: PROVIDE, PRIOR TO FINAL ELECTRICAL INSPECTION, DOCUMENTATION TO SHOW NFPA 99, CHAPTER 4 COMPLIANCE FOR PATIENT CARE AREAS; COORDINATE WITH ELECTRICAL PERSONNEL FROM VA BUILDING SERVICES.

F. FOR TYPICAL POWER AND COMMUNICATION BACK BOX INSTALLATION, SEE DETAIL 1/DRAWING E4.1.

G. CONNECT BRANCH CIRCUITS TO EXISTING NORMAL AND EMERGENCY CRITICAL PANELS IN ELECTRICAL 112G, AND EXISTING LIFE SAFETY PANEL IN ELECTRICAL 117. CONNECT TO EXISTING 20 AMP, 1 POLE SPARE BREAKERS, UNLESS OTHERWISE NOTED. FIELD VERIFY CIRCUIT NUMBERS.

SHEET KEYNOTES

1. INTERCEPT EXISTING CIRCUITS THAT PENETRATE WALL ABOVE ELEVATION 109'-4" IN ELECTRICAL 117. EXTEND AND RECONNECT; INSTALL BELOW 109'-4" (BELOW 9'-4" ABOVE FINISHED FIRST FLOOR), TO FACILITATE INSTALLATION OF NEW STRUCTURE ABOVE. FURNISH AND INSTALL CONDUCTORS AS REQUIRED IN CONDUITS SHOWN TO EXTEND AND RECONNECT EXISTING CONDUITS.
2. (2) 3/4" EMPTY CONDUITS TO ELECTRICAL 112H FOR FUTURE NORMAL AND EMERGENCY CRITICAL POWER BRANCH CIRCUITS.
3. PANEL AND CIRCUIT FOR ALL RECEPTACLES IN ROOM, EXCEPT AS NOTED.
4. DECONTAMINATION TANK.
5. 1"C, 4#14, 1#14G TO MECHANICAL CONTROL PANEL FOR MONITORING AND ALARM. COORDINATE WITH MECHANICAL CONTRACTOR.



FIRST FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

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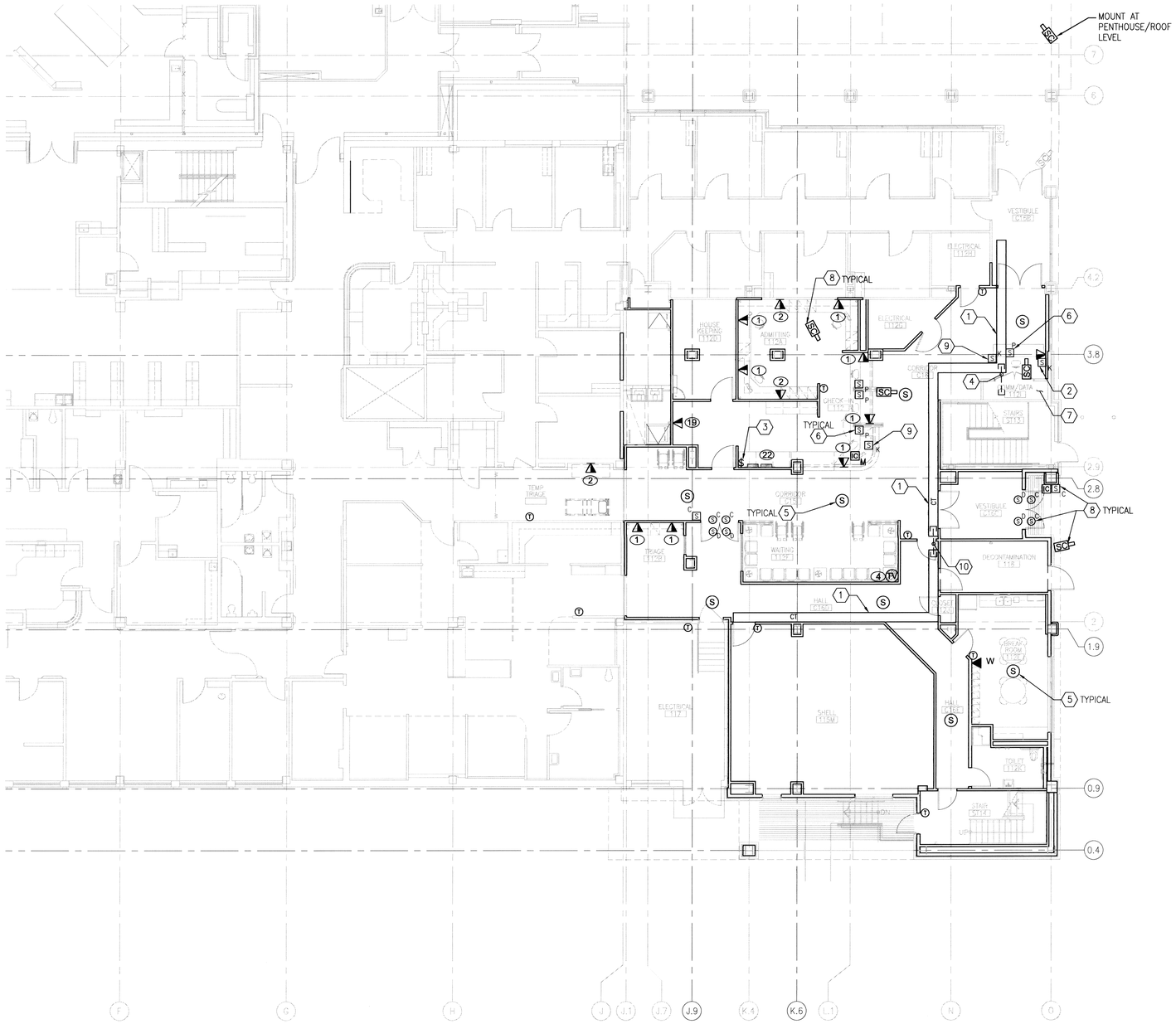
CAD FILE NAME: 531-317_EP2.1.DWG

XREF FILE NAME: 85A1FL.DWG, 85E1PO.DWG, 85A1FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE	FIRST FLOOR POWER PLAN
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	
APPROVED: MEDICAL CENTER DIRECTOR	
PROJECT TITLE	REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
BUILDING NUMBER	85
CHECKED	JH
DRAWN	CLC
LOCATION	VAMC BOISE, IDAHO
DATE	11/01/2011
PROJECT NO.	531-317
DRAWING NO.	EP2.1
DWG	168 OF 188

DEPARTMENT OF VETERANS AFFAIRS



FIRST FLOOR COMMUNICATIONS PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWING E0.1 FOR GENERAL NOTES. SEE DRAWING E0.3 FOR COMMUNICATIONS LEGENDS AND ABBREVIATIONS. SEE DRAWING E3.1 FOR EQUIPMENT SCHEDULE.

B. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

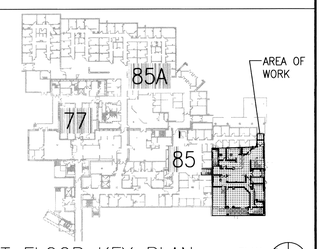
C. ALL TELECOMMUNICATIONS OUTLET BOXES AND CONDUITS SHALL BE SIZED TO ACCOMMODATE 4 CATEGORY 6 CABLES, UNLESS OTHERWISE NOTED. CONDUIT SHALL BE 1" INSIDE DIAMETER, MINIMUM. FURNISH AND INSTALL CONDUIT FROM TELECOMMUNICATIONS OUTLET BOXES UP TO ABOVE THE CEILING, AND TO THE CABLE TRAY, VIA THE SHORTEST OR LEAST OBSTRUCTED ROUTE.

D. ROUTE FIRST FLOOR TELECOMMUNICATIONS SYSTEM CABLES FROM DATA/TELEPHONE OUTLETS TO EXISTING INTERMEDIATE DISTRIBUTION FRAME (IDF) RACK IN COMM/DATA 112I.

E. ROUTE ALL PUBLIC ADDRESS AND INTERCOM WIRING IN CONDUIT (MINIMUM SIZE 3/4") OR IN CABLE TRAY.

SHEET KEYNOTES

1. 12" WIDE BY 4" DEEP WIRE MESH BASKET CABLE TRAY. MOUNT 6" ABOVE LAY-IN CEILING.
2. SECURITY KEYPAD TO LOCK EXTERIOR DOOR TO VESTIBULE C16B.
3. SWITCH TO ACTIVATE DISASTER HORN.
4. (2) 4" CONDUITS FROM CABLE TRAY INTO COMM/DATA 112I.
5. CONNECT NEW SPEAKERS INTO EXISTING PUBLIC ADDRESS SYSTEM. TAP INTO EXISTING SPEAKER CIRCUIT IN FIRST FLOOR ADMITTING AREA.
6. MOUNT PANIC BUTTON BELOW COUNTER. CONNECT TO SECURITY SYSTEM; PROGRAM TO BE PRIORITY, IMMEDIATE RESPONSE ALARM.
7. FURNISH AND INSTALL NEW PATCH PANELS IN EXISTING RACK FOR NEW FIRST FLOOR TELECOMMUNICATIONS CABLING.
8. COORDINATE WITH APEX SECURITY (MIKE FORD, 378-9650) REGARDING SECURITY SYSTEM DEVICES; DEVICE HARDWARE AND INSTALLATION/CONNECTION BY APEX SECURITY. PROVIDE WIRING, BACKBOXES, AND POWER CONNECTIONS/RECEPTACLES FOR THE SECURITY SYSTEM, AS SHOWN OR REQUIRED. VERIFY LOCATIONS, TYPICAL. SEE ALSO DETAIL 1, DRAWING E4.0.
9. PUSHBUTTONS TO UNLOCK ENTRY DOORS TO VESTIBULE C16B AND VESTIBULE C16C.
10. (2) 4" CONDUITS BETWEEN CABLE TRAYS, THROUGH SMOKE PARTITION WALL.



FIRST FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

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CAD FILE NAME: 531-317_EC2.1.DWG
XREF FILE NAME: 85E1EC.DWG, 85A1FL.DWG, 85A1FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: FIRST FLOOR COMMUNICATIONS PLAN

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

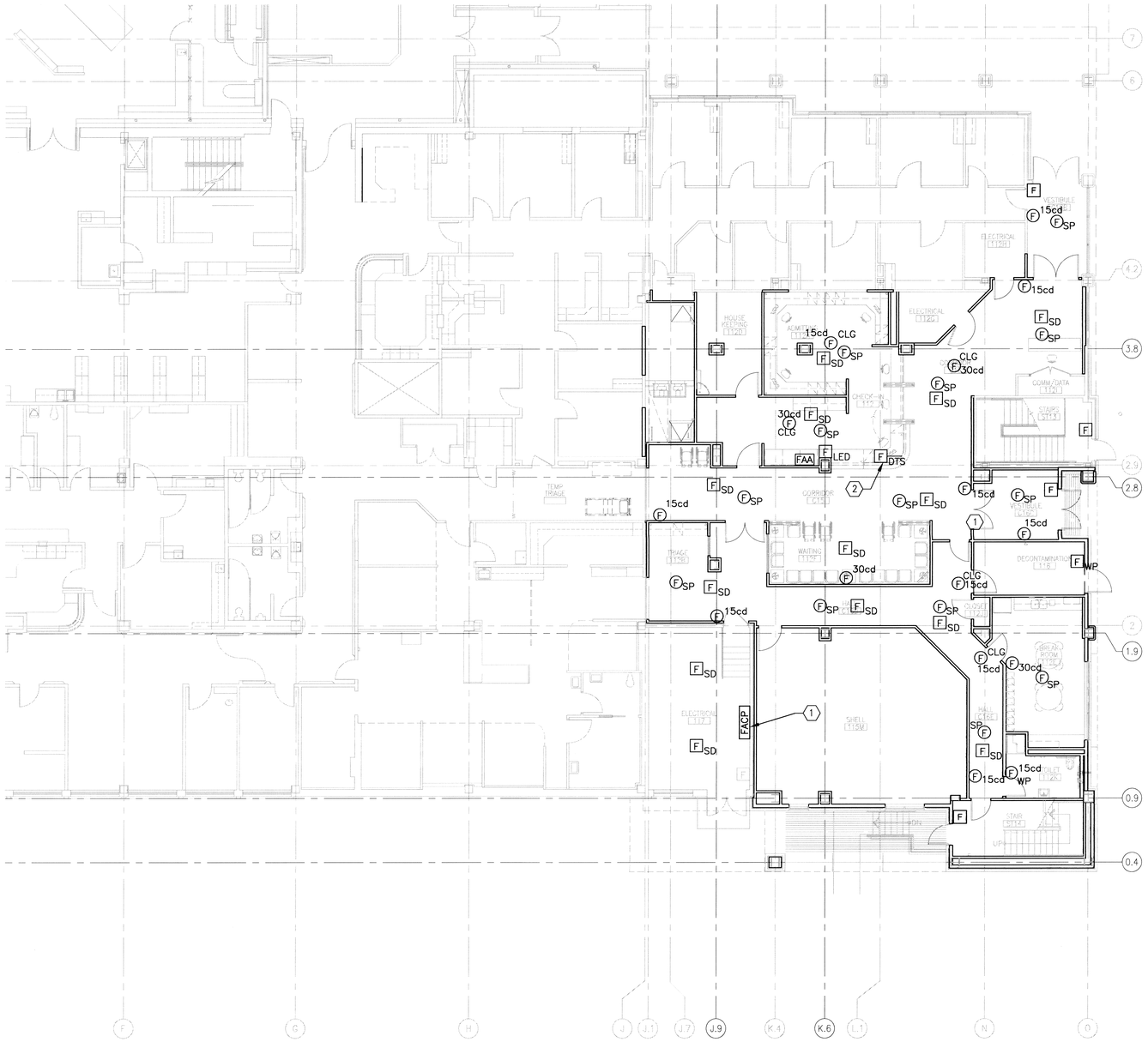
DATE: 11/01/2011
PROJECT NO.: 531-317

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

BUILDING NUMBER: 85
CHECKED: CLC
DRAWN: JH
LOCATION: VAMC BOISE, IDAHO

DRAWING NO.: EC2.1
DWG 169 OF 188

DEPARTMENT OF VETERANS AFFAIRS



FIRST FLOOR FIRE ALARM PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWING E0.1 FOR GENERAL NOTES, DRAWING E0.3 FOR FIRE ALARM LEGEND AND ABBREVIATIONS, DRAWING E3.4 FOR FIRE ALARM RISER, AND DRAWING E3.5 FOR FIRE ALARM MATRIX.

B. GENERAL NOTE: COORDINATE WITH OWNER TO PROVIDE VOLTAGE DROP CALCULATIONS FOR NEW OR MODIFIED NOTIFICATION CIRCUITS, CONTROL SCHEMATIC FOR MAGNETIC HELD DOORS, AND SMOKE DAMPERS, AND LISTING/INSTALLATION INFORMATION ON ALL FIRE ALARM SYSTEM DEVICES.

C. GENERAL NOTE: INTERCONNECT THE NEW OR RELOCATED, ADDRESSABLE DEVICES INTO THE EXISTING CABLE SYSTEM. PROVIDE PROGRAMMING CHANGES AND INTEGRATION AS REQUIRED.

D. GENERAL NOTE: PROVIDE THE NECESSARY MODIFICATIONS TO THE FIRE ALARM SYSTEM TO ACCOMMODATE THE NEW FIRE ALARM STROBES BEING ADDED; INCLUDE MODULES FOR NEW STROBE CIRCUITS, NEW CIRCUIT WIRING, SYNCHRONIZED FLASH MODULES FOR ALL CIRCUITS, AND ALL OTHER NECESSARY COMPONENTS. ALL STROBES SHALL BE SYNCHRONIZED.

E. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE INSTALLED IN RED CONDUIT OF MINIMUM 3/4" SIZE.

F. ALL SIGNALING LINE CIRCUIT AND INITIATING DEVICE CIRCUIT CONDUCTORS SHALL BE #16 AWG MINIMUM. ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS SHALL BE #12 AWG MINIMUM; ALL AUDIBLE NOTIFICATION APPLIANCE CIRCUITS SHALL BE #14 AWG MINIMUM. INCREASE CONDUCTOR SIZE ACCORDING TO VOLTAGE DROP CALCULATIONS.

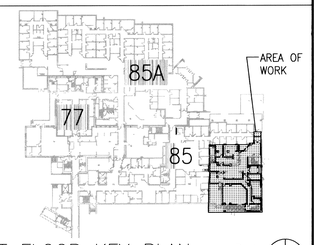
G. SEE DETAIL 3, DRAWING E4.0, FOR FIRE/SMOKE DAMPER CONNECTION DETAIL.

H. FINAL CONNECTIONS AND PROGRAMMING TO BE COMPLETED BY EXISTING/CURRENT FIRE ALARM CONTRACTOR FOR BOISE VAMC.

I. PROVIDE CORRIDOR SMOKE DETECTION, PER IBC SECTION 407.

SHEET KEYNOTES

1. RELOCATED FIRE ALARM CONTROL PANEL.
2. MOUNT IN RETURN AIR DUCT.



FIRST FLOOR KEY PLAN

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PLAN NORTH

FOR CONSTRUCTION

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CAD FILE NAME: 531-317_FA2.1.DWG

XREF FILE NAME: 85E1FA.DWG, 85A1FL.DWG, 85A1FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: FIRST FLOOR FIRE ALARM PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

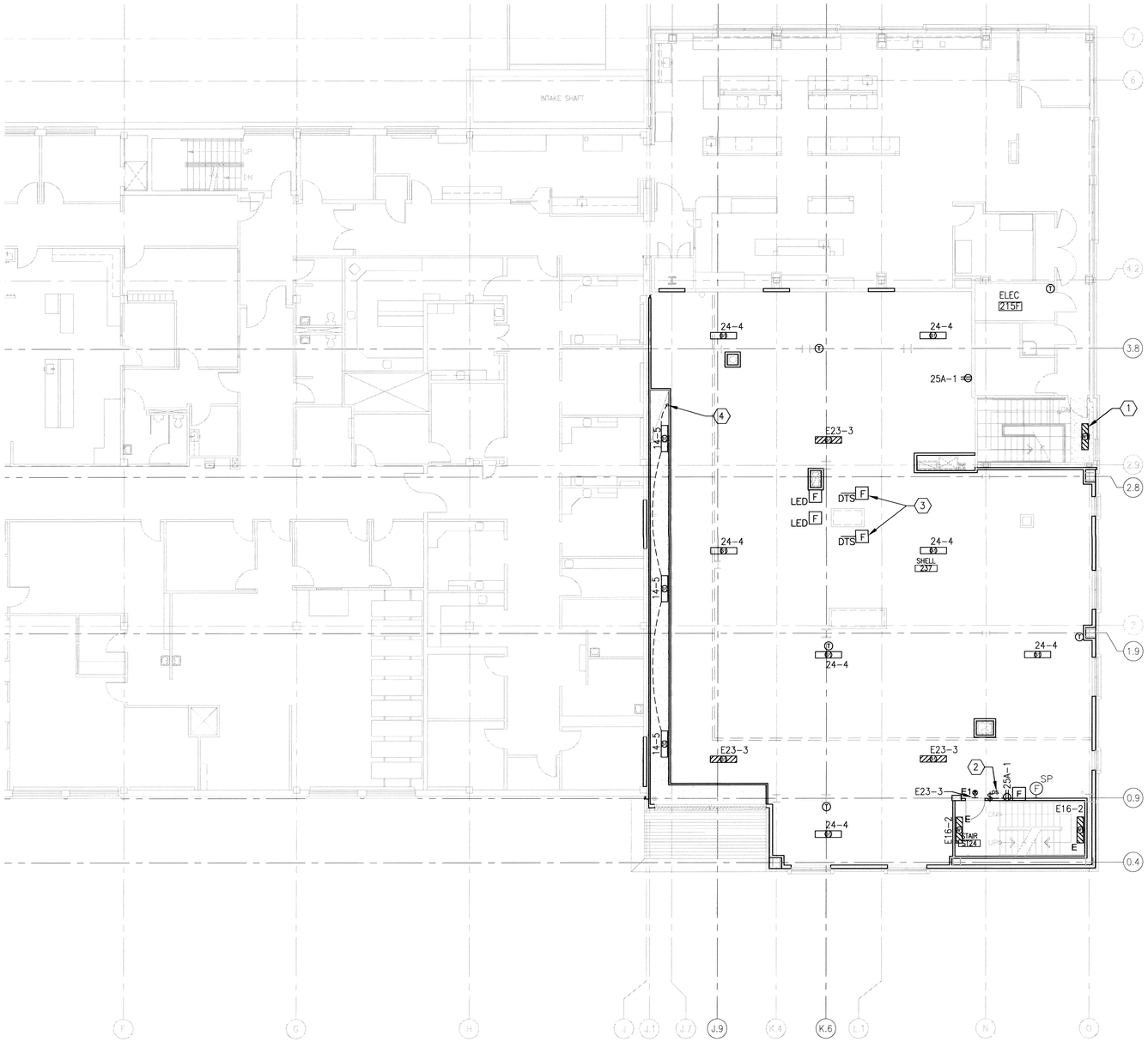
DATE: 11/01/2011

PROJECT NO.: 531-317

DRAWING NO.: FA2.1

DWG 170 OF 188

DEPARTMENT OF VETERANS AFFAIRS



SECOND FLOOR ELECTRICAL PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR LUMINAIRE SCHEDULE.

B. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH SHOWN.

C. COORDINATE LOCATION AND INSTALLATION OF LIGHTING FIXTURES WITH OTHER CONSTRUCTION THAT PENETRATES OR IS SUPPORTED BY CEILINGS.

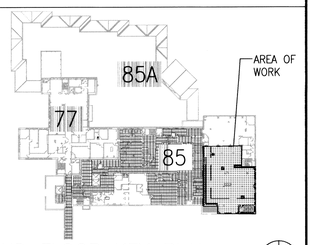
D. COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

E. FOR STANDARD LIGHTING WIRING METHODS, SEE DETAIL 3/DRAWING E4.1.

F. CONNECT SECOND FLOOR LIGHTING AND RECEPTACLE CIRCUITS TO EXISTING PANELBOARDS IN ELECTRICAL 215F. CONNECT TO EXISTING 20 AMP/1 POLE SPARE BREAKERS; FIELD VERIFY CIRCUIT NUMBERS.

SHEET KEYNOTES

1. CONNECT TO EXISTING LIFE SAFETY BRANCH CIRCUIT FOR STAIRWELL LIGHTING.
2. OCCUPANCY SENSOR CONTROLS ALL NORMAL POWER LIGHTING IN ROOM. SEE DETAIL 5/DRAWING E4.1.
3. MOUNT IN RETURN AIR DUCT.
4. DOWN TO LIGHT FIXTURE BELOW; SEE FIRST FLOOR LIGHTING PLAN, DRAWING EL2.1.



SECOND FLOOR KEY PLAN

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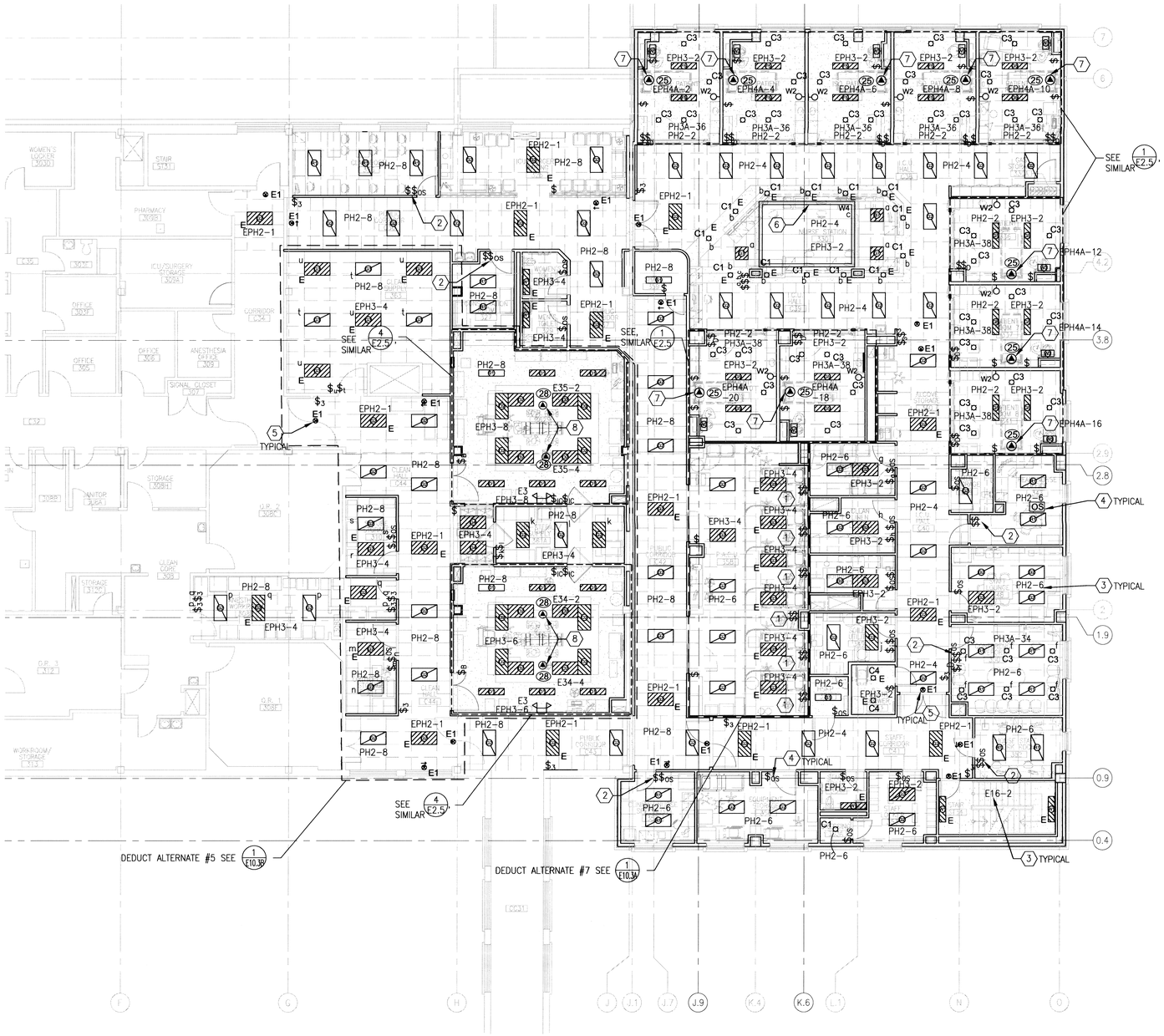
CAD FILE NAME: 531-317_EL2.2.DWG

XREF FILE NAME: 85A2FL.DWG, 85A2FL_MASTER.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG, 85E2PO.DWG

DRAWING TITLE	SECOND FLOOR ELECTRICAL PLAN
PROJECT TITLE	REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE	11/01/2011
PROJECT NO.	531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	
BUILDING NUMBER	85
CHECKED	JH
DRAWN	CLC
DRAWING NO.	E2.2
APPROVED: MEDICAL CENTER DIRECTOR	
LOCATION	VAMC BOISE, IDAHO
DWG	171 OF 188

DEPARTMENT OF VETERANS AFFAIRS



THIRD FLOOR LIGHTING PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR LUMINAIRE SCHEDULE.

B. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH SHOWN.

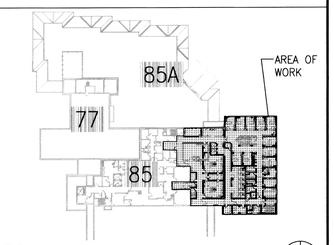
C. COORDINATE LOCATION AND INSTALLATION OF LIGHTING FIXTURES WITH OTHER CONSTRUCTION THAT PENETRATES OR IS SUPPORTED BY CEILINGS.

D. COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

E. FOR STANDARD LIGHTING WIRING METHODS, SEE DETAIL 3/DRAWING E4.1.

SHEET KEYNOTES

1. PROVIDE DUAL LEVEL SWITCHING WITH CENTER LAMPS ON ONE SWITCH AND OUTER LAMPS ON SECOND SWITCH. SEE DETAIL 4/DRAWING E4.1.
2. PROVIDE DUAL SWITCH CONTROL FOR STEP DIMMING TYPE 'R1' LIGHTING FIXTURES.
3. PANEL AND CIRCUIT TYPICAL FOR ALL LUMINAIRES IN ROOM, EXCEPT AS NOTED.
4. OCCUPANCY SENSOR CONTROLS ALL NORMAL POWER LIGHTING IN ROOM. SEE DETAIL 5/DRAWING E4.1.
5. CONNECT EXIT SIGNS TO UNSWITCHED LEG OF LIFE SAFETY LIGHTING CIRCUIT EPH2-1. TYPICAL FOR ALL NEW THIRD FLOOR EXIT SIGNS.
6. INDIRECT LIGHT FIXTURE TO UPLIGHT SKYLIGHT OPENING; WALL MOUNT NEAR BOTTOM OF SKYLIGHT OPENING. PROVIDE CUSTOM LENGTH CONTINUOUS FIXTURE WITH CORNER PIECES; FIELD MEASURE EXACT LENGTHS.
7. PROVIDE 20 AMP, 120 VOLT, DEDICATED EMERGENCY CRITICAL BRANCH CIRCUIT FOR ICU BOOM EXAM LIGHT.
8. PROVIDE 20 AMP, 120 VOLT, DEDICATED EMERGENCY CRITICAL BRANCH CIRCUIT FOR OPERATING ROOM BOOM SURGERY LIGHT.



THIRD FLOOR KEY PLAN

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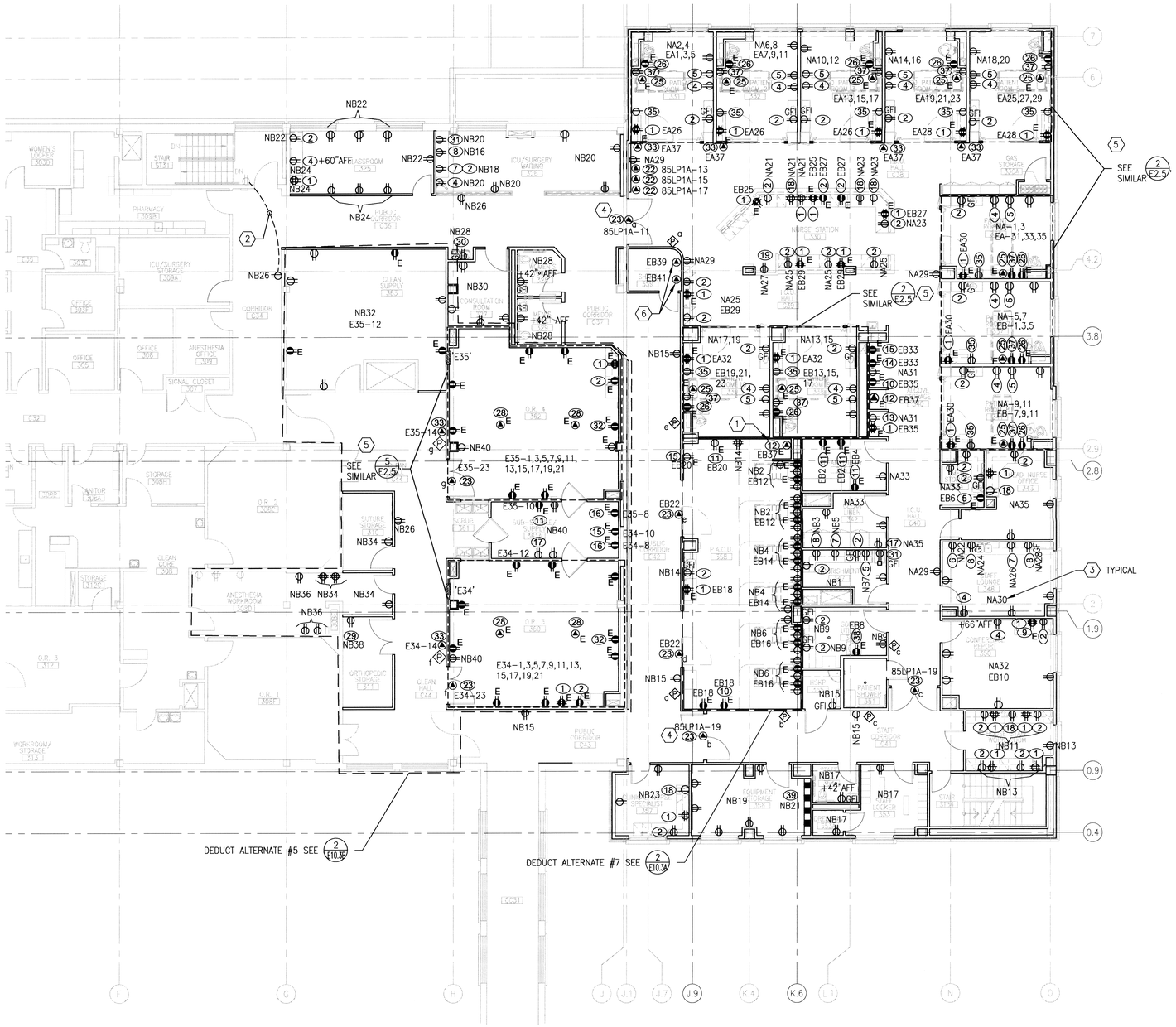
CAD FILE NAME: 531-317_EL2.3.DWG

XREF FILE NAME: 85A3FL.DWG, 85E3LI.DWG, 85A3FL KEY PLAN.DWG, 85A3FL MASTER.DWG, 85_GRID.DWG, 531-317xVAbord.DWG

DRAWING TITLE	THIRD FLOOR LIGHTING PLAN
PROJECT TITLE	REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE	11/01/2011
PROJECT NO.	531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	
BUILDING NUMBER	85
CHECKED	JH
DRAWN	CLC
DRAWING NO.	EL2.3
APPROVED: MEDICAL CENTER DIRECTOR	
LOCATION	VAMC BOISE, IDAHO
DWG	172 OF 188

DEPARTMENT OF VETERANS AFFAIRS



THIRD FLOOR POWER PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR EQUIPMENT SCHEDULE. SEE DRAWINGS E3.1, E3.2, AND E3.3 FOR PANEL SCHEDULES.

B. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. PROVIDE, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUITS SHOWN. PROVIDE 12 AWG PHASE AND INDIVIDUAL NEUTRAL CONDUCTORS WITH #12 AWG GROUND FOR 20 AMP CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE # 10 AWG CONDUCTORS FOR PHASE, NEUTRAL AND GROUND ON 20 AMP CIRCUITS GREATER THAN 75-FEET. SEE ALSO DETAIL 2/DRAWING E4.1.

C. RECEPTACLES SHOWN AT COUNTERS ADJACENT TO SINKS SHALL BE MOUNTED 6-INCHES ABOVE COUNTER SURFACE UNLESS OTHERWISE NOTED.

D. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

E. GENERAL NOTE: PROVIDE, PRIOR TO FINAL ELECTRICAL INSPECTION, DOCUMENTATION TO SHOW NFPA 99, CHAPTER 4 COMPLIANCE FOR PATIENT CARE AREAS; COORDINATE WITH ELECTRICAL PERSONNEL FROM VA BUILDING SERVICES.

F. FOR TYPICAL POWER AND COMMUNICATION BACK BOX INSTALLATION, SEE DETAIL 1/DRAWING E4.1.

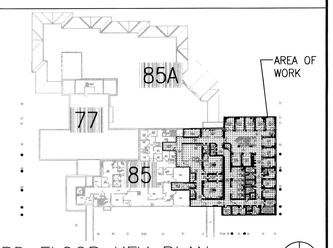
G. CONNECT LIFE SAFETY BRANCH CIRCUITS TO EXISTING LIFE SAFETY PANEL IN ELECTRICAL 117. CONNECT TO EXISTING 20 AMP, 1 POLE SPARE BREAKERS, UNLESS OTHERWISE NOTED. FIELD VERIFY CIRCUIT NUMBERS.

H. GENERAL NOTE: CIRCUIT NUMBERS BEGINNING WITH "N" REFER TO NORMAL BRANCH AND "E" REFER TO EMERGENCY CRITICAL BRANCH. CIRCUITS ON THIS FLOOR SHALL BE ROUTED TO THE FOLLOWING PANELS:

NA = PH3A EA = EPH4A
NB = PH3B EB = EPH4B

SHEET KEYNOTES

1. DEDUCT ALTERNATE #3: OMIT ELECTRICAL ASSOCIATED WITH PNEUMATIC TUBE STATION IN PACU 358.
2. CONNECT EXISTING RECEPTACLE TO CORRIDOR RECEPTACLE CIRCUIT.
3. PANEL AND CIRCUIT FOR ALL RECEPTACLES IN ROOM, EXCEPT AS NOTED.
4. FOR SECURITY DEVICES THAT INTERFACE WITH THIS DOOR, SEE COMMUNICATIONS PLAN, DRAWING EC2.3.
5. SEE ENLARGED PLANS, DRAWING E2.5, FOR DETAILED CIRCUITING INFORMATION.
6. HVAC CONTROL PANEL.



THIRD FLOOR KEY PLAN

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CAD FILE NAME: 531-317_EP2.3.DWG

XREF FILE NAME: 85E3PO.DWG, 85A3FL.DWG, 85A3FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: THIRD FLOOR POWER PLAN

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

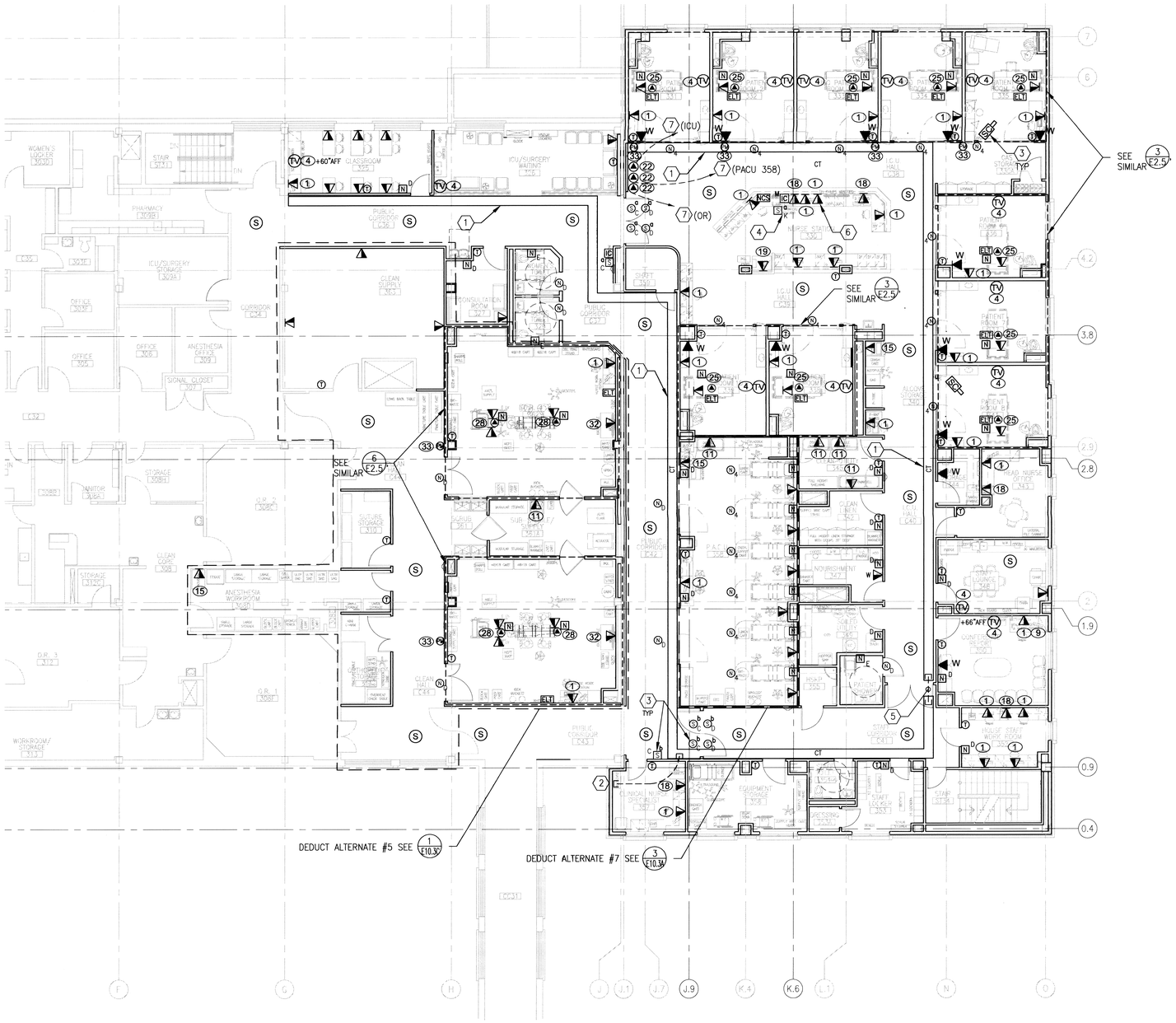
DATE: 11/01/2011

PROJECT NO.: 531-317

DRAWING NO.: EP2.3

DWG 173 OF 188

DEPARTMENT OF VETERANS AFFAIRS



THIRD FLOOR COMMUNICATIONS PLAN
1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWING E0.1 FOR GENERAL NOTES. SEE DRAWING E0.3 FOR COMMUNICATIONS LEGENDS AND ABBREVIATIONS. SEE DRAWING E3.1 FOR EQUIPMENT SCHEDULE.

B. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

C. ALL TELECOMMUNICATIONS OUTLET BOXES AND CONDUITS SHALL BE SIZED TO ACCOMMODATE 4 CATEGORY 6 CABLES, UNLESS OTHERWISE NOTED. CONDUIT SHALL BE 1" INSIDE DIAMETER, MINIMUM. FURNISH AND INSTALL CONDUIT FROM TELECOMMUNICATIONS OUTLET BOXES UP TO ABOVE THE CEILING, AND TO THE CABLE TRAY, VIA THE SHORTEST OR LEAST OBSTRUCTED ROUTE.

D. ROUTE THIRD FLOOR TELECOMMUNICATIONS SYSTEM CABLES FROM DATA/TELEPHONE OUTLETS TO INTERMEDIATE DISTRIBUTION FRAME (IDF) RACK IN COMM ROOM PH5. SEE SHEET E2.4 FOR MORE INFORMATION.

E. ROUTE ALL PUBLIC ADDRESS, NURSE CALL, AND INTERCOM WIRING IN CONDUIT (MINIMUM SIZE 3/4") OR IN CABLE TRAY.

F. ROUTE THIRD FLOOR NURSE CALL CABLING TO NURSE CALL HEADEND IN COMM ROOM PH5.

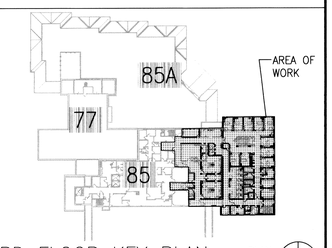
G. ROUTE THIRD FLOOR PUBLIC ADDRESS CABLING TO PUBLIC ADDRESS HEADEND IN COMM ROOM PH5.

H. ROUTE THIRD FLOOR TELEVISION CABLING TO TV TERMINAL CABINET IN COMM ROOM PH5.

I, ROUTE THIRD FLOOR INTERCOM CABLING TO INTERCOM HEADEND IN COMM ROOM PH5.

SHEET KEYNOTES

1. 18" WIDE BY 4" DEEP WIRE MESH BASKET CABLE TRAY. MOUNT 6" ABOVE LAY-IN CEILING.
2. (8) 4" CONDUITS FROM CABLE TRAY UP TO PENTHOUSE COMM ROOM PH5.
3. COORDINATE WITH APEX SECURITY (MIKE FORD, 378-9650) REGARDING SECURITY SYSTEM DEVICES; DEVICE HARDWARE AND INSTALLATION/CONNECTION BY APEX SECURITY. PROVIDE WIRING, BACKBOXES, AND POWER CONNECTIONS/RECEPTACLES FOR THE SECURITY SYSTEM, AS SHOWN OR REQUIRED. VERIFY LOCATIONS, TYPICAL. SEE ALSO DETAIL 1, DRAWING E4.0.
4. PUSHBUTTON TO UNLOCK ICU ENTRY DOOR C38.
5. (4) 4" CONDUITS BETWEEN CABLE TRAYS, THROUGH SMOKE PARTITION WALL.
6. CENTRAL MONITOR FOR SECURITY CAMERAS IN ICU PATIENT ROOMS 5 AND 8.
7. FURNISH AND INSTALL CONTROL WIRING, 3/4"C, 6#14, 1#14G, TO (3) MED GAS REMOTE PRESSURE SENSORS. COORDINATE WITH MED GAS CONTRACTOR.



THIRD FLOOR KEY PLAN
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PLAN NORTH

FOR CONSTRUCTION

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CAD FILE NAME: 531-317_EC2.3.DWG
XREF FILE NAME: 85E3C.DWG, 85A3FL.DWG, 85A3FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: THIRD FLOOR COMMUNICATIONS PLAN	PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT			DATE: 11/01/2011
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE	BUILDING NUMBER: 85	CHECKED: JH	DRAWN: CLC	PROJECT NO.: 531-317
APPROVED: MEDICAL CENTER DIRECTOR	LOCATION: VAMC BOISE, IDAHO			DRAWING NO.: EC2.3
				DWG 174 OF 188

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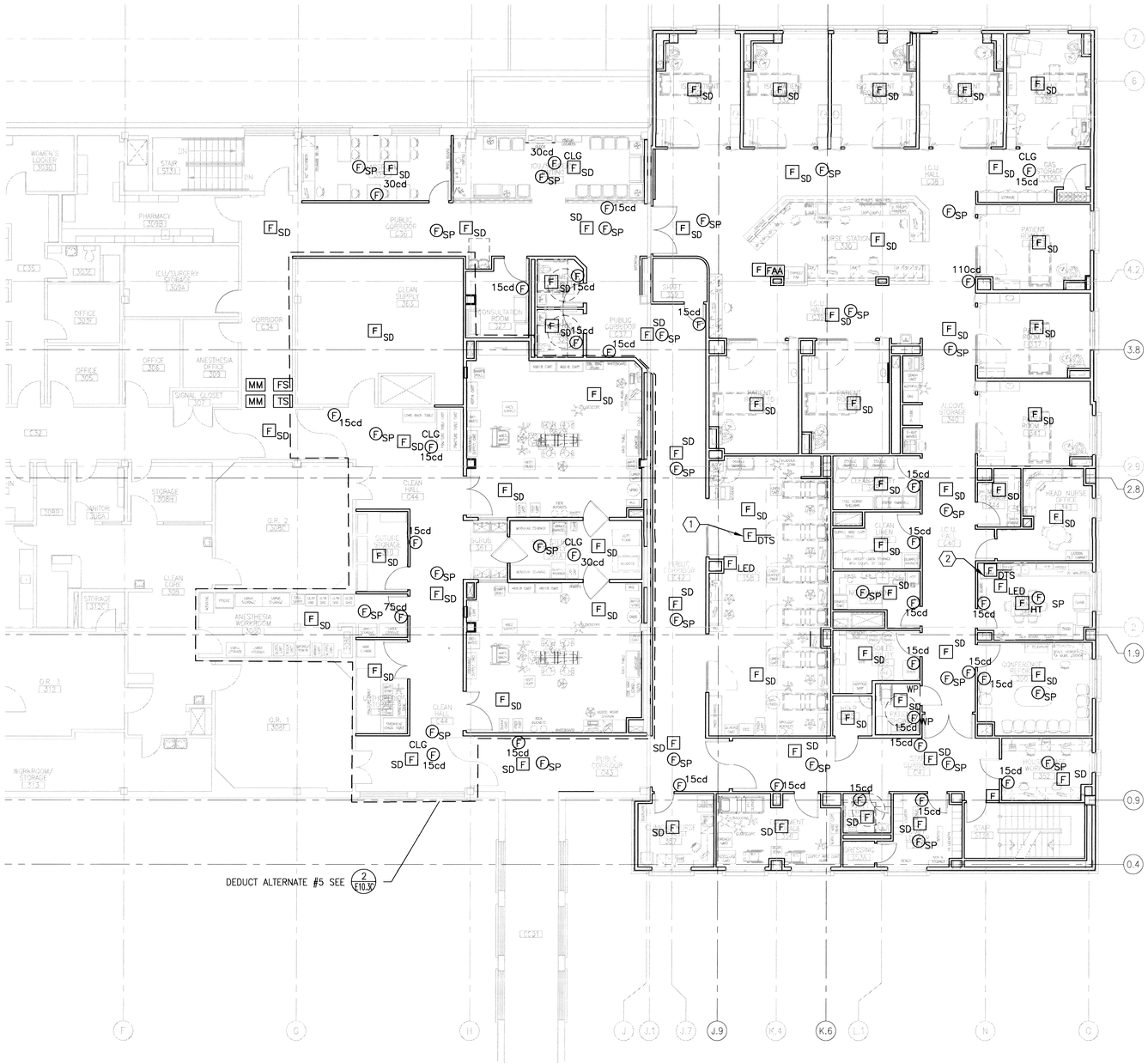


THIRD FLOOR FIRE ALARM PLAN

1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWING E0.1 FOR GENERAL NOTES, DRAWING E0.3 FOR FIRE ALARM LEGEND AND ABBREVIATIONS, DRAWING E3.4 FOR FIRE ALARM RISER, AND DRAWING E3.5 FOR FIRE ALARM MATRIX.

B. GENERAL NOTE: COORDINATE WITH OWNER TO PROVIDE VOLTAGE DROP CALCULATIONS FOR NEW OR MODIFIED NOTIFICATION CIRCUITS, CONTROL SCHEMATIC FOR MAGNETIC HELD DOORS, AND SMOKE DAMPERS, AND LISTING/INSTALLATION INFORMATION ON ALL FIRE ALARM SYSTEM DEVICES.

C. GENERAL NOTE: INTERCONNECT THE NEW OR RELOCATED, ADDRESSABLE DEVICES INTO THE EXISTING CABLE SYSTEM. PROVIDE PROGRAMMING CHANGES AND INTEGRATION AS REQUIRED.

D. GENERAL NOTE: PROVIDE THE NECESSARY MODIFICATIONS TO THE FIRE ALARM SYSTEM TO ACCOMMODATE THE NEW FIRE ALARM STROBES BEING ADDED; INCLUDE MODULES FOR NEW STROBE CIRCUITS, NEW CIRCUIT WIRING, SYNCHRONIZED FLASH MODULES FOR ALL CIRCUITS, AND ALL OTHER NECESSARY COMPONENTS. ALL STROBES SHALL BE SYNCHRONIZED.

E. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE INSTALLED IN RED CONDUIT OF MINIMUM 3/4" SIZE.

F. ALL SIGNALING LINE CIRCUIT AND INITIATING DEVICE CIRCUIT CONDUCTORS SHALL BE #16 AWG MINIMUM. ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS SHALL BE #12 AWG MINIMUM; ALL AUDIBLE NOTIFICATION APPLIANCE CIRCUITS SHALL BE #14 AWG MINIMUM. INCREASE CONDUCTOR SIZE ACCORDING TO VOLTAGE DROP CALCULATIONS.

G. SEE DETAIL 3, DRAWING E4.0, FOR FIRE/SMOKE DAMPER CONNECTION DETAIL.

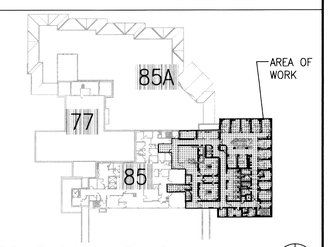
H. FINAL CONNECTIONS AND PROGRAMMING TO BE COMPLETED BY EXISTING/CURRENT FIRE ALARM CONTRACTOR FOR BOISE VAMC.

I. PROVIDE TOTAL AREA COVERAGE SMOKE DETECTION IN ICU SUITE, PER NFPA 101 18.2.5.7.2.3.

J. PROVIDE CORRIDOR SMOKE DETECTION, PER IBC SECTION 407.

SHEET KEYNOTES

1. MOUNT IN RETURN AIR DUCT OF AIR HANDLING UNIT.
2. MOUNT IN SUPPLY AIR DUCT OF AIR HANDLING UNIT.



THIRD FLOOR KEY PLAN

NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

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				DWG 175 OF 188

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