

GENERAL NOTES

- "GENERAL NOTES" APPLY TO ALL ELECTRICAL DRAWINGS. "SHEET NOTES" APPLY TO ONLY THE SHEETS ON WHICH THEY OCCUR. "KEYNOTES" APPLY ONLY WHERE CALLED OUT.
- ALL EQUIPMENT SHOWN IN BOLD IS TO BE PROVIDED, OR MODIFIED BY CONTRACTOR UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FROM ALL CONTROL DEVICES TO LUMINAIRES FOR CONTROL OF LUMINAIRES SHOWN.
- LUMINAIRES SHOWN ON DRAWINGS FOR QUANTITY AND CIRCUITING ONLY. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ELEVATIONS.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC TABLE 250.122. ALL WIRING IS BASED ON CU COPPER PER NEC TABLE 310.15(B)(16), USING 75°C AMPACITIES FOR FEEDERS.
- BRANCH CIRCUIT CONDUCTORS, NOT OTHERWISE IDENTIFIED SHALL BE A MINIMUM 12 AWG FOR RUNS 70 FEET OR LESS AND A MINIMUM 10 AWG FOR RUNS GREATER THAN 70 FEET. QUANTITY AND SIZE SHALL BE "AS REQUIRED" TO SERVE AND CONTROL DEVICES(S) OR EQUIPMENT WITH A MAXIMUM VOLTAGE DROP OF THREE PERCENT, WHERE CONTRACTOR CHOOSES TO RUN MORE THAN THREE CURRENT CARRYING CONDUCTORS WITHIN ONE RACEWAY OR CABLE, CONDUCTORS SHALL BE INCREASED IN SIZE TO COMPENSATE FOR THE DERATING REQUIRED PER NEC SECTION 310.15. CONDUCTOR AMPACITIES SHALL BE TAKEN FROM THE 75°C COLUMN.
- MINIMUM CONDUIT IN EXTERIOR AND UNDERGROUND LOCATIONS TO BE 1" UNLESS NOTED OTHERWISE ON PLANS. CONDUITS FROM LUMINAIRES TO LOCAL USER CONTROL DEVICES (SWITCHES, OCCUPANCY SENSORS, ETC) MAY BE 3/4" OR AS INDICATED IN SPECIFICATIONS. PROVIDE ADDITIONAL CONDUCTOR FOR UNSWITCHED "HOT" TO LIGHTING LUMINAIRES WITH EMERGENCY POWER BATTERIES OR GENERATOR TRANSFER DEVICES.
- WIRING FOR EMERGENCY LIGHTING CIRCUITS OR OTHER EMERGENCY EQUIPMENT SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT AND SHALL MEET ALL REQUIREMENTS OF NEC SECTION 700.10.
- CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FOR ALL CIRCUITS SHOWN ON DRAWINGS.
- WHERE EQUIPMENT PART NUMBERS ARE SHOWN ON THESE PLANS THEY SHALL SUPERCEDE THE REQUIREMENTS OF THE SPECIFICATIONS.
- ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- COORDINATE EXACT LOCATION OF ALL OUTLETS, COMBINATION CLOCKS/SPEAKERS, SPEAKER, FA DEVICES, ETC., WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO COMMENCING WORK.
- COORDINATE USE OF CEILING SPACE WITH ALL TRADES PRIOR TO COMMENCING WORK. MANY AREAS ARE VERY CONGESTED AND REQUIRE CLOSE COORDINATION.
- COORDINATE INSTALLATION REQUIREMENTS FOR OCCUPANCY SENSOR LIGHTING CONTROL WITH THE MANUFACTURER. PROVIDE ALL APPURTENANCES AS REQUIRED PER THE MANUFACTURER REQUIREMENTS. PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROVIDE COMPLETE COVERAGE IN EACH ROOM CONTROLLED BY OCCUPANCY SENSORS.
- COORDINATE THE INSTALLATION OF ALL EXTERIOR DEVICE AND FIXTURE BOXES WITH MASONRY CONTRACTOR. CUT ALL FLUTED BLOCKS SO THAT THE BOX IS INSTALLED FLUSH. SEE ARCHITECTURAL DETAILS FOR MOUNTING REQUIREMENTS.
- SEAL ALL CONDUIT PENETRATIONS OF FLOORS & FIRE RATED ASSEMBLIES WITH U.L. APPROVED MATERIALS AND METHODS TO MAINTAIN FIRE RATING. PROTECT ALL OPENINGS FOR STEEL ELECTRICAL BOXES IN FIRE RATED WALLS WITH U.L. APPROVED MATERIALS AND METHODS TO MAINTAIN THE FIRE INTEGRITY.
- PROVIDE ADDITIONAL CONDUIT SLEEVES THROUGH WALLS WHERE REQUIRED FOR ROUTING OF SIGNAL SYSTEM WIRING NOT REQUIRED TO BE RUN IN CONDUIT. EACH SLEEVE SHALL BE DEDICATED TO EACH SIGNAL SYSTEM. SLEEVES ROUTED THROUGH RATED WALLS SHALL BE SEALED WITH U.L. MATERIALS AND METHODS TO MAINTAIN FIRE RATING OF WALL.
- SEE MECHANICAL/PLUMBING DRAWINGS AND SUBMITTALS FOR EXACT LOCATIONS AND ADDITIONAL ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.
- ALL LOW VOLTAGE SYSTEMS NOT RUN IN CONDUIT SHALL HAVE MINIMUM 1" C. ROUTED FROM THE DEVICE THROUGH WALLS INTO THE ACCESSIBLE CEILING SPACE. NO CABLING SHALL BE ROUTED IN THE WALLS OR IN ACCESSIBLE LOCATION WITHOUT CONDUIT.
- GFCI RECEPTACLES ARE REQUIRED WITHIN 6 FT OF ALL SINKS, ON THE EXTERIOR BELOW 8 FT FROM THE FINISH FLOOR, AND ON ALL ROOFS.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE COR.
- CONTRACTOR SHALL PROVIDE DUCT SEAL WHERE CONDUITS TRANSITION FROM AREAS THAT CREATE TEMPERATURE DIFFERENTIAL PER NEC.
- PRIMARY CONDUIT SWEEPS SHALL BE LONG RADIUS.
- ALL "RMC" - RIGID METAL CONDUIT IN CONTACT WITH THE EARTH SHALL BE WRAPPED WITH CORROSION TAPE PER NEC.
- ALL J-BOXES SHALL BE MARKED WITH INDELIBLE MARKER INDICATING CONDUIT NUMBER AND PANEL NUMBER.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL 120 VOLT POWER FOR THE MECHANICAL CONTROLS. COORDINATE EXACT REQUIREMENTS WITH THE CONTROL CONTRACTOR.
- CONTRACTOR SHALL PROVIDE NEW GATEWAY/ROUTER AS REQUIRED. CONTRACTOR SHALL PROVIDE & INSTALL THE GATEWAY/ROUTER AND CORRESPONDING 20A, 120V CIRCUIT TO POWER UNIT.
- ALL ELECTRICAL WORK SHALL BE COMPLETED WITH ALL PROXIMATE ELECTRICAL CIRCUITS DE-ENERGIZED (I.E. A NEW BREAKER OR CIRCUIT CANNOT BE ADDED TO A PANEL UNLESS THE PANEL IS COMPLETELY DE-ENERGIZED), OR THE CONTRACTOR MUST COMPLY WITH NFPA 70E FOR WORK ON ENERGIZED SERVICE. THE VA WILL DETERMINE IF THE ELECTRICAL SERVICE CAN BE SHUTDOWN OR IT WILL HAVE TO BE WORKED HOT DEPENDING ON THE CRITICALITY OF THE AREA BEING AFFECTED. IF THE WORK MUST BE DONE WITH THE SERVICE LIVE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED PROTECTIVE TOOLS, EQUIPMENT, AND CLOTHING, AND MUST FOLLOW THE JOB SPECIFIC WORK PLAN PREPARED BY THE VA. WORK THAT REQUIRES SHUTTING DOWN ELECTRICAL SERVICE MAY HAVE TO BE ACCOMPLISHED DURING OTHER THAN NORMAL DUTY HOURS.

THIS SHEET IS FOR REFERENCE ONLY AND ALL SYMBOLS, NOTES AND ABBREVIATIONS MAY NOT APPLY TO THIS PROJECT

LUMINAIRES (DIMENSIONS OF SYMBOL WILL VARY DEPENDING ON LUMINAIRE)

LUMINAIRE TYPE IDENTIFICATION: LUMINAIRES INDICATED BY THE FOLLOWING NOTATIONS
 LF = NEW LUMINAIRE UON, REFER TO LUMINAIRE SCHEDULE FOR DETAILS
 LU# = EXISTING LUMINAIRE UON IN DWELLING PLAN, REFER TO LUMINAIRE SCHEDULE FOR DETAILS
 SE# = NEW LUMINAIRE UON, EXTERIOR SITE, REFER TO LUMINAIRE SCHEDULE FOR DETAILS
 # = EXISTING LUMINAIRE, UNLESS OTHERWISE NOTED
 EL# = EXISTING LUMINAIRE TO BE RELOCATED
 EN# = NEW LOCATION OF EXISTING LUMINAIRE

LIGHTING CONTROL SCHEDULE

POWER

PHOTO ELECTRIC SENSOR

VARIABLE FREQUENCY DRIVE

DRAW OUT SWITCH/PLUG-RECEPTACLE CONNECTION

NORMALLY OPEN CONTACT (WHEN DE-ENERGIZED)

NORMALLY CLOSED CONTACT (WHEN DE-ENERGIZED)

HARDWIRED CONNECTION

JUNCTION BOX

SHUNT TRIP PUSH-BUTTON OR KEY-SWITCH

THERMOSTAT

PANELBOARD, SWITCHBOARD, OR SWITCHGEAR. DASHED BOX INDICATES CODE REQUIRED WORKING CLEARANCE

CONDUIT OR EQUIPMENT TO BE REMOVED

CONDUIT CONCEALED IN WALL, CEILING, UNDER FLOOR, IN FLOOR SLAB, OR ROUTED UNDERGROUND

CONDUIT EXPOSED

EXISTING CONDUIT EXPOSED, EXISTING TO REMAIN UNLESS OTHERWISE NOTED

EXISTING CONDUIT ROUTED UNDERGROUND, EXISTING TO REMAIN UNLESS OTHERWISE NOTED

OVERHEAD ELECTRICAL

EXTRA-HARD USAGE FLEXIBLE CORD

FLEXIBLE CONDUIT

CONDUIT TURNED UP OR TOWARD

CONDUIT TURNED DOWN OR AWAY

CONDUIT CAPPED

POWER (CONTINUED)

CONDUIT HOME RUN 3/4" 2#12 & 1#12 GND, UNLESS SHOWN OTHERWISE. (EXAMPLE SHOWN: TO PANEL L1, CIRCUIT 2)

CONDUIT HOME RUN - SEE FEEDER SCHEDULE

HANDHOLE

PULL BOX

MANUAL OR AUTOMATIC TRANSFER SWITCH

CIRCUIT BREAKER, RATING/NO. OF POLES WITH THERMAL MAGNETIC CIRCUIT BREAKER TRIP, UNLESS OTHERWISE NOTED

CIRCUIT BREAKER, MEDIUM VOLTAGE
 a = CIRCUIT BREAKER NUMBER
 b = FRAME SIZE

GROUND ROD IN GROUND ROD BOX

BATTERY

TRANSFORMER

TRAPPED KEY INTERLOCK
 NO = NORMALLY OPEN NC = NORMALLY CLOSED

MAIN LUGS ONLY

CURRENT TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S

POTENTIAL TRANSFORMER, NUMBER INDICATES NUMBER OF C.T.'S

MOTOR

MAGNETIC MOTOR STARTER
 FVNR = FULL VOLTAGE NON-REVERSING
 FVR = FULL VOLTAGE REVERSING
 00 = NEMA SIZE

MAGNETIC MOTOR STARTER WIDISCONNECT

DISCONNECT SWITCH, NON FUSED (80A) INDICATES AMPERAGE RATING

DISCONNECT SWITCH, FUSED 200=SWITCH RATING, 100=FUZE RATING

CIRCUIT BREAKER DISCONNECT (80A) INDICATES AMPERAGE RATING

MOTOR RATED SWITCH, WHERE "M" INDICATED, PROVIDE A MANUAL MOTOR STARTER W/OVERLOAD

UTILITY WATT HOUR METER

SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED

STANDARD RECEPTACLES: 125V, 20A 18" AFF, UON, TYPES: SIMPLEX /DUPLEX /QUADRUPLEX /FLOOR DUPLEX /FLOOR QUADRUPLEX

GFCI RECEPTACLES: 125V, 20A 18" AFF, UON, TYPES: SIMPLEX /DUPLEX /QUADRUPLEX

C = CEILING MOUNTED
 S = HALF SWITCHED
 4 = ISOLATED GROUND
 T = TAMPER RESISTANT
 a = LOWER CASE LETTER INDICATES SWITCH CONTROL
 MEASUREMENT INDICATES HEIGHT ABOVE BACKSPASH/MILLWORK
 A = INDICATES MOUNT ABOVE BACKSPASH/MILLWORK, COORDINATE HEIGHT WITH TRADES
 USB = INDICATES 20A 120V DUPLEX RECEPTACLE WITH USB CHARGER
 CT = SWITCHED RECP. INDICATES FULL CONTROLLED DEDICATED 20A 125V DUPLEX
 uc = UNDERCOUNTER
 CH = SWITCHED RECP. INDICATES HALF CONTROLLED DEDICATED 20A 125V DUPLEX
 W = WEATHERPROOF/WHILE IN USE

RECEPTACLE ON EMERGENCY POWER

2-GANG COMPARTMENT BOX IN FLOOR FOR DATA, AND RECEPTACLE

DROP CORD, SINGLE CONVENIENCE OUTLET

ELECTRICAL STRIP MOLD

COMMUNICATION OUTLETS
 FOR ALL TELECOMMUNICATION OUTLETS, ROUTE 3/4" CONDUIT UNDERGROUND IF NECESSARY AND STUB TO ACCESSIBLE CEILING SPACE WITH CABLING AS DESCRIBED IN ELECTRICAL SPECIFICATIONS.
 # - INDICATES QUANTITY OF VOICE AND DATA JACKS

FLOOR MOUNTED TELECOMMUNICATIONS OUTLET.
 # = INDICATES QUANTITY OF VOICE AND DATA JACKS

WALL MOUNTED TELECOMMUNICATIONS OUTLET, 18" AFF UON.
 # = INDICATES QUANTITY OF VOICE AND DATA JACKS
 uc = UNDERCOUNTER

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

OUTLET, TELEVISION
 BLANK = 4 1/16" MASTER ANTENNA OUTLET BOX W/BLANK COVER, MTD, 18" AFF UNLESS OTHERWISE NOTED.
 C = CAMERA (CCTV SYSTEM), MTD 18" AFF
 M = MONITOR (CCTV SYSTEM).

COMMUNICATION

FO FIBEROPTICS LINE = FO

T TELEPHONE LINE = T

SPEAKER, CEILING MOUNTED

SPEAKER, WALL MOUNTED, MTD, 7-6" AFF UON.

RADIO CHANNEL SELECTOR FACILITIES, MTD, 4-6" AFF UON.
 M = SPEAKER PROGRAM SELECTOR SWITCH & VOLUME CONTROL

3-POLE TWIST-LOCK RECEPTACLE FOR MICROPHONE, MTD, 4-6" AFF.

REMOTE DICTATING OUTLET MTD 1'-6" AFF, UON.

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

WIRELESS ACCESS PORT, S = STAFF, G = GUEST

WALL MOUNTED SPEAKER/CLOCK COMBINATION

WALL CLOCK

CABLE TRAY

RECESSED AUDIO FLOOR BACK BOX, OUTLET AND CONDUIT

TELECOMMUNICATIONS SYSTEMS BONDING BUSBAR

FIBER OPTIC NETWORK CARD

AUDIO/VISUAL CONTROLLER AND INPUT DEVICE

FIRE ALARM

ADDRESSABLE RELAY

ALARM, FIRE, COMMUNICATOR

ALARM, FIRE, PANEL, LETTERS INDICATE AS FOLLOWS:
 MFCAP = CENTRAL CONSOLE FACP = CONTROL PANEL
 MFACP = MASTER CONTROL PANEL FAAP = ANNUNCIATOR PANEL

ALARM, FIRE, LETTERS INDICATE AS FOLLOWS:
 BATT = BATTERIES CHR = CHARGER FAR = RECORDER

ALARM, FIRE, VALVE SUPERVISORY SWITCH.

ALARM, FIRE, TERMINAL CABINET.

ALARM, FIRE, POST INDICATOR VALVE.

ALARM, TRANSPONDER OR TRANSMITTER (80A) INDICATES AMPERAGE RATING

ALARM, FIRE, MANUAL PULL STATION C = WITH CLEAR PLASTIC COVER

ALARM, HORN/LIGHT, ONE ASSEMBLY C = WITH CHIME

ALARM, HORN/LIGHT, SEPARATE ASSEMBLY

ALARM, LAMP LIGHT, SIGNAL LIGHT, STROBE

ALARM, MANUAL CONTROL

ALARM, MINI HORN

ALARM, SPRINKLER SYSTEM WATER FLOW BELL

ALARM, VOICE COMMUNICATION PANEL

ALARM, TAMPER SWITCH

DETECTION, GAS

DETECTION, CARBON DIOXIDE TRANSMITTER

DETECTOR, FLOW SWITCH

DETECTOR, HEAT

DETECTOR, SMOKE

DETECTOR, SMOKE, FOR DUCT

ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET

CITY FIRE ALARM MASTER STATION MTD 5'-6" AFF UNLESS NOTED.

FIRE ALARM TRANSMITTER (BASE LOOP) NUMERALS DENOTE CODE.

FIRE ALARM TROUBLE TRANSMITTER (BASE LOOP) NUMERALS DENOTE CODE.

FIRE SPRINKLER WATER FLOW SWITCH

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

REMOTE ANNUNCIATOR

CIRCUIT DESIGNATION

LUMINAIRE, TYPICAL:

"#F" INDICATES TYPE PER LUMINAIRE SCHEDULE. (SEE "LUMINAIRES" LEGEND ON THIS SHEET FOR MORE INFORMATION)

"NL" INDICATES NIGHT LIGHT LUMINAIRE.

"XX" INDICATES PANELBOARD AND CIRCUIT PROVIDING POWER TO LUMINAIRES IN SAME ROOM/AREA, UON.

"a" INDICATES CONTROL PER SWITCH.

"E" INDICATES POWER TO EMERGENCY LIGHTING CONTAINED IN SAME ROOM/AREA.

RECEPTACLE, TYPICAL:

"P#N" INDICATES POWER SOURCE.

"Z" INDICATES CIRCUIT NUMBER.

NURSE CALL

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

NURSE CALL TERMINAL CABINET

NURSE CALL STATION

1 = SINGLE PATIENT STATION, MTD 4'-0" AFF UNLESS OTHERWISE NOTED

2 = DUPLEX PATIENT STATIONS (SEPARATE INDICATORS AT MASTER STATION) MTD 5'-0" AFF UNLESS OTHERWISE NOTED

D = DUTY STATION, MTD 5'-0" AFF UNLESS OTHERWISE NOTED

E = STATION MTD 6'-0" AFF FOR SHOWER LOCATION, MTD 4'-6" AFF FOR TUB LOCATION, & MTD 3'-0" AFF FOR TOILET LOCATION, UON

P = PSYCHIATRIC CORRIDOR STATION WITH KEY SWITCH

S = AUDIO VISUAL WALL STATION (STAFF) MTD 5'-0" AFF UNLESS OTHERWISE NOTED

U = UTILITY CALL STATION, MTD 5'-0" AFF UNLESS OTHERWISE NOTED

EM = EMERGENCY STATION, MTD 5'-0" AFF UNLESS OTHERWISE NOTED

J = JACK STATION, MTD 4'-0" AFF UNLESS OTHERWISE NOTED

NURSE CALL LIGHT

Z = NURSE'S CALL DOME LIGHT (SUFFIX INDICATES NO OF LAMP) MTD 6" ABOVE DOOR

D = CORRIDOR DOME LIGHT

I = AUXILIARY INTERSECTIONAL DOME LIGHT

NIGHT LIGHT

PATIENT BED OUTLET

POWER SUPPLY WITH BATTERY BACKUP

SAFETY AND SECURITY

M = MOUNTING FOR ALL SAFETY AND SECURITY SYMBOLS:
 C-CEILING D-DESK F-FLUSH H-HIDDEN
 P-PEDESTAL R-RACK S-SURFACE W-WALL M-MULLION

AUDIO DEVICE, LETTER INDICATES AS FOLLOWS:
 B-BELL C-CHIME H-HORN K-KLAXON
 L-LISTEN-N M-MICROPHONE S-SOUNDER S-SPEAKER Z-ZBUZZER
 KEYPAD DEVICE

CARD READER WITH KEYPAD

CARD ACCESS READER, LETTER INDICATES AS FOLLOWS:
 T-TECHNOLOGY TYPE
 B-BARCODE F-ELEVATOR FLOOR CALL H-ELEVATOR HALL CALL
 M-MAG STRIP P-PROXIMITY S-SMART CARD T-TOKEN

DOOR CONTACT

ELECTRONIC LOCK, LETTER INDICATES AS FOLLOWS:
 T-TECHNOLOGY TYPE
 D-DEADBOLT I-HYBRID L-LATCH SET M-MAGNETIC S-STRIKE
 EN EXISTING TO BE RELOCATED
 EM EXISTING IN NEW LOCATION
 EMT ELECTRICAL METALLIC TUBING
 EN EXISTING TO REMAIN
 ER EXISTING
 FAP FIRE ALARM ANNUNCIATOR PANEL
 FACP FIRE ALARM CONTROL PANEL
 FCIO FURNISHED BY CONTRACTOR, INSTALLED BY OWNER
 FOIC FURNISHED BY OWNER, INSTALLED BY CONTRACTOR

GFCI GROUND FAULT CIRCUIT INTERRUPTER

GFP GROUND FAULT PROTECTION

GND GROUND

HTR HEATER

IG ISOLATED GROUND

IMC INTERMEDIATE METALLIC CONDUIT

JBOX JUNCTION BOX

LCP LIGHTING CONTROL PANEL

MCA MINIMUM CIRCUIT AMPACITY

MCB MAIN CIRCUIT BREAKER

MCC MOTOR CONTROL CENTER

MCP MAIN DISTRIBUTION PANEL

MLO MAIN LUGS ONLY

MS MOTOR STARTER

MTD MOUNTED

NAC NOTIFICATION APPLIANCE CABINET

NEC NATIONAL ELECTRICAL CODE

NFC NOT FOR CONSTRUCTION

NIC NOT IN CONTRACT

NLT NIGHT LIGHT

OC ON CENTER

OH OCCUPANCY SENSOR

PIV POST INDICATOR VALVE

PNL PANEL

PPS POWER SUPPLY

PVC POLYVINYL CHLORIDE

R EXISTING TO BE REMOVED

RCP RECEPTACLE

RMC RIGID METAL CONDUIT

SAC SMALL APPLIANCE CIRCUIT

SB/SWBD SWITCHBOARD

SG SWITCHGEAR

SM SMART METER

SPD SURGE PROTECTIVE DEVICE

TEL TELEPHONE

TR TAMPER RESISTANT

TYP TYPICAL

uc UNDERCOUNTER

UON UNLESS OTHERWISE NOTED

UL UNDERWRITERS LABORATORIES

UG UNDERGROUND

VD VOLTAGE DROP

VFD VARIABLE FREQUENCY DRIVE

W WEATHERPROOF (WHILE IN USE)

WP WEATHERPROOF

XFMR TRANSFORMER

GENERAL SYMBOLS

SECTION LETTER (A, B, C, etc.)

SCALE (1/8", 1/4", 1/2", etc.)

SHEET WHERE SECTION IS TAKEN FROM

SECTION LETTER (A, B, C, etc.)

SHEET ON WHICH SECTION APPEARS

DETAIL NUMBER (1, 2, 3, etc.)

SHEET ON WHICH DETAIL APPEARS

DETAIL AREA

CONDUIT & WIRE TAG (REFER TO CONDUIT AND WIRE SCHEDULE)

VAULT, HANDHOLE, OR PULLBOX TAG

KEY NOTE

IF PHOTO, ARROW DENOTES DIRECTION TAKEN

FIGURE OR PHOTO DETAIL NUMBER

SHEET WHERE DETAIL IS TAKEN FROM

DETAIL/PLAN NUMBER

SHEET INDEX

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EL101A	LEVEL 1 - LIGHTING PLAN - EAST (ADD ALT #3, #4)
EL102	LEVEL 1 - LIGHTING PLAN - CENTER
EL102A	LEVEL 1 - LIGHTING PLAN - CENTER (ADD ALT #3)
EL103	LEVEL 1 - LIGHTING PLAN - WEST
EL103A	LEVEL 1 - LIGHTING PLAN - WEST (ADD ALT #1)
EL104	ROOF AND MECHANICAL PENTHOUSE - LIGHTING PLANS
EP101	LEVEL 1 - POWER PLAN - EAST
EP101A	LEVEL 1 - POWER PLAN - EAST (ADD ALT #3, #4)
EP102	LEVEL 1 - POWER PLAN - CENTER
EP102A	LEVEL 1 - POWER PLAN - CENTER (ADD ALT #3)
EP103	LEVEL 1 - POWER PLAN - WEST
EP103A	LEVEL 1 - POWER PLAN - WEST (ADD ALT #1)
EP104	ROOF AND MECHANICAL PENTHOUSE - POWER PLANS
EP104A	ROOF AND MECHANICAL PENTHOUSE - POWER PLANS (ADD ALT #2)
ET101	LEVEL 1 - SPECIAL SYSTEM PLAN - EAST
ET101A	LEVEL 1 - SPECIAL SYSTEM PLAN - EAST (ADD ALT #3, #4)
ET102	LEVEL 1 - SPECIAL SYSTEM PLAN - CENTER
ET102A	LEVEL 1 - SPECIAL SYSTEM PLAN - CENTER (ADD ALT #3)
ET103	LEVEL 1 - SPECIAL SYSTEM PLAN - WEST
ET103A	LEVEL 1 - SPECIAL SYSTEM PLAN - WEST (ADD ALT #1)
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ABBREVIATIONS

AFC	AVAILABLE FAULT CURRENT
AFG	AMP FRAME
AF	ARC FLASH CIRCUIT INTERRUPTER
AFCI	ARC FLASH CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR
AFF	AMPERE INTERRUPTING CAPACITY
AHJ	AUTHORITY HAVING JURISDICTION
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT OR CEILING
CB	CABLE BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CL	CONNECTOR LIGHTING
CO	CONDUIT ONLY
DDC	DIRECT DIGITAL CONTROLS
DP	DISTRIBUTION PANELBOARD
EL	ELECTRICAL CONTRACTOR EXISTING TO BE RELOCATED
EN	EMERGENCY
EM	EXISTING IN NEW LOCATION
EMT	ELECTRICAL METALLIC TUBING
EN	EXISTING TO REMAIN
ER	EXISTING
FAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCIO	FURNISHED BY CONTRACTOR, INSTALLED BY OWNER
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HTR	HEATER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JBOX	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MTD	MOUNTED
NAC	NOTIFICATION APPLIANCE CABINET
NEC	NATIONAL ELECTRICAL CODE
NFC	NOT FOR CONSTRUCTION
NIC	NOT IN CONTRACT
NLT	NIGHT LIGHT
OC	ON CENTER
OH	OCCUPANCY SENSOR
PIV	POST INDICATOR VALVE
PNL	PANEL
PPS	POWER SUPPLY
PVC	POLYVINYL CHLORIDE
R	EXISTING TO BE REMOVED
RCP	RECEPTACLE
RMC	RIGID METAL CONDUIT
SAC	SMALL APPLIANCE CIRCUIT
SB/SWBD	SWITCHBOARD
SG	SWITCHGEAR
SM	SMART METER
SPD	SURGE PROTECTIVE DEVICE
TEL	TELEPHONE
TR	TAMPER RESISTANT
TYP	TYPICAL
uc	UNDERCOUNTER
UON	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
UG	UNDERGROUND
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
W	WEATHERPROOF (WHILE IN USE)
WP	WEATHERPROOF
XFMR	TRANSFORMER

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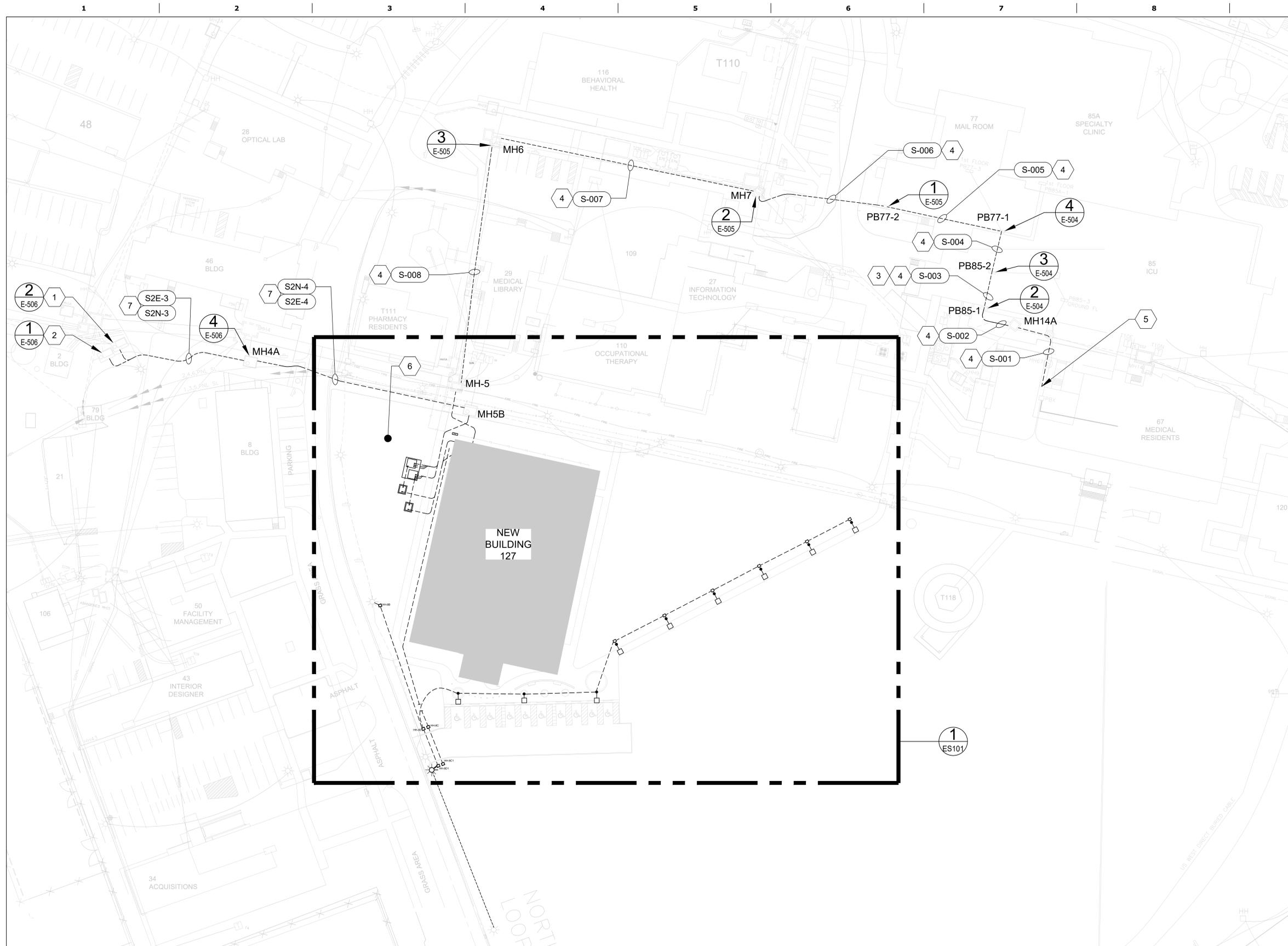
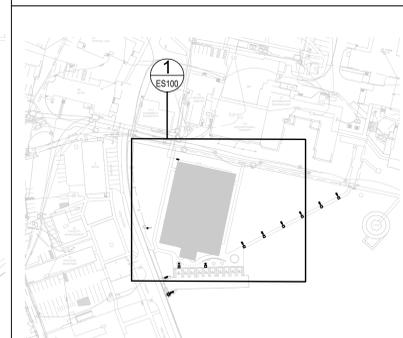
GENERAL SHEET NOTES

1. REFERENCE CONDUIT AND WIRE SCHEDULE ON SHEET E-603.

KEY NOTES (THIS SHEET ONLY)

- 1 EXISTING SWITCH "S2E", VAULT MOUNTED.
- 2 EXISTING SWITCH "S2N", VAULT MOUNTED.
- 3 EXISTING SIGNAL CONDUIT ROUTED THROUGH BUILDING 85 CRAWL SPACE.
- 4 EXISTING CONDUIT TO BE REUSED TO FEED FIBER OPTIC CABLE FROM MAIN SERVER ROOM IN BUILDING 67 TO NEW BUILDING 127. EXISTING CONDUIT ROUTING IS BASED ON SITE INVESTIGATION AND AS-BUILT DRAWINGS. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING AS REQUIRED.
- 5 EXISTING MAIN SERVER ROOM LOCATED IN BUILDING 67, ROOM G02B-67.
- 6 CONTRACTOR PARKING.
- 7 EXISTING CONDUIT TO BE REUSED TO FEED NEW POWER CABLE FROM EXISTING SWITCH THROUGH VAULT SYSTEM TO NEW BUILDING SERVICE EQUIPMENT.

KEY PLAN

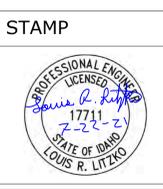


1 OVERALL SITE - ELECTRICAL PLAN
1/32" = 1'-0"
0 16' 32' 64'

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD
A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT



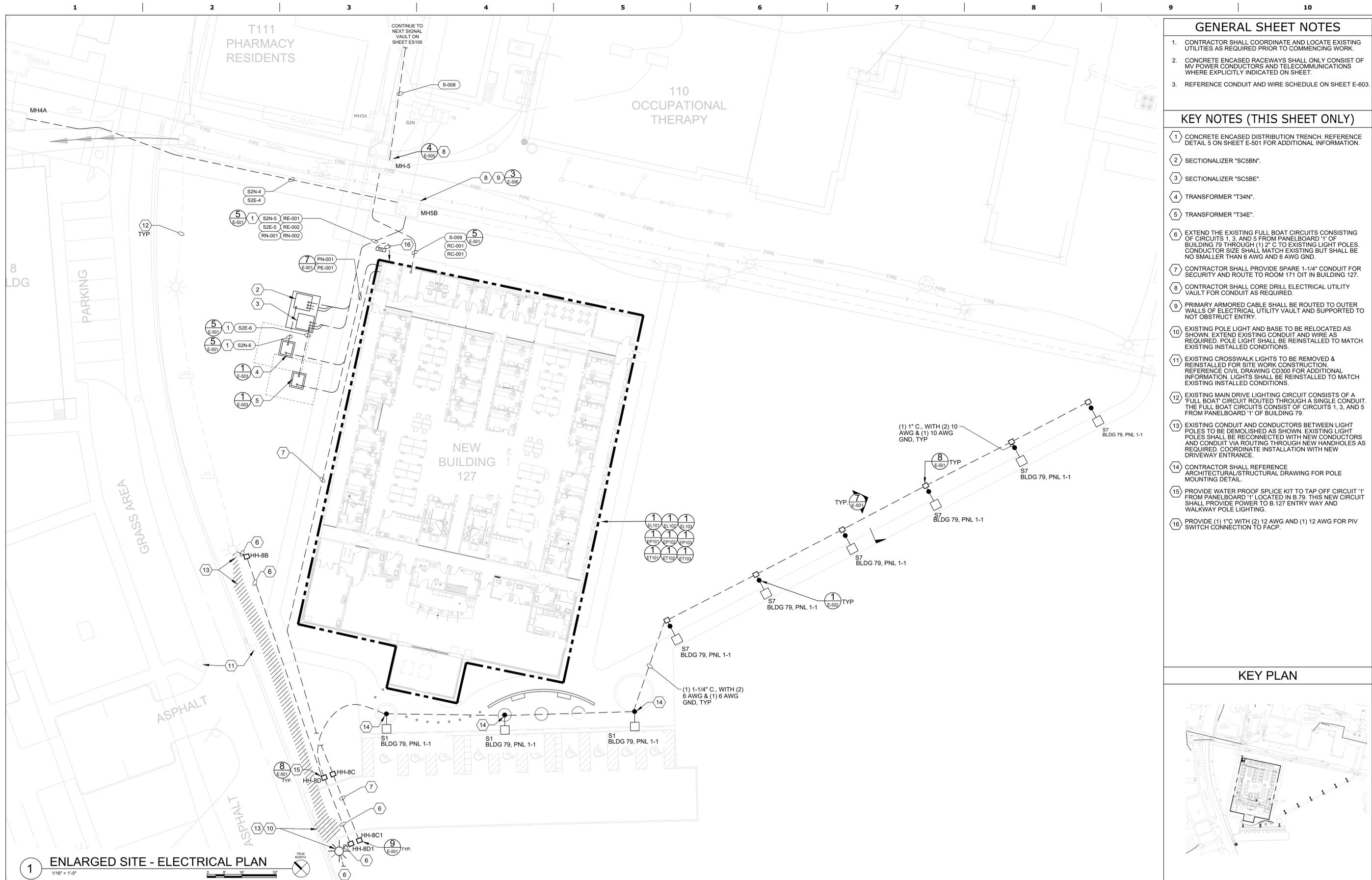
STAMP
Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs

Drawing Title	OVERALL SITE - ELECTRICAL PLAN
Approved:	MEDICAL CENTER DIRECTOR
Approved:	CHIEF, FACILITY MANAGEMENT SERVICE

Phase	CONSTRUCTION DOCUMENTS
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Project Title	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING
Location	BOISE VA MEDICAL CENTER - BOISE, ID
Issue Date	07/23/2021
Checked	LR / BJR
Drawn	JPS / FEB

Project Number	531-325
Building Number	127
Drawing Number	ES100
161 OF 206	



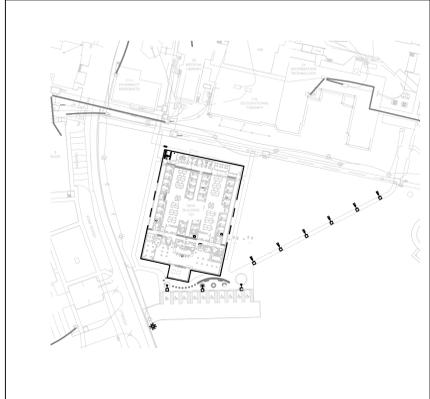
GENERAL SHEET NOTES

1. CONTRACTOR SHALL COORDINATE AND LOCATE EXISTING UTILITIES AS REQUIRED PRIOR TO COMMENCING WORK.
2. CONCRETE ENCASED RACEWAYS SHALL ONLY CONSIST OF MV POWER CONDUCTORS AND TELECOMMUNICATIONS WHERE EXPLICITLY INDICATED ON SHEET.
3. REFERENCE CONDUIT AND WIRE SCHEDULE ON SHEET E-603.

KEY NOTES (THIS SHEET ONLY)

- 1 CONCRETE ENCASED DISTRIBUTION TRENCH. REFERENCE DETAIL 5 ON SHEET E-501 FOR ADDITIONAL INFORMATION.
- 2 SECTIONALIZER "SC5BN".
- 3 SECTIONALIZER "SC5BE".
- 4 TRANSFORMER "T34N".
- 5 TRANSFORMER "T34E".
- 6 EXTEND THE EXISTING FULL BOAT CIRCUITS CONSISTING OF CIRCUITS 1, 3, AND 5 FROM PANELBOARD '1' OF BUILDING 79 THROUGH (1) 2" C TO EXISTING LIGHT POLES. CONDUCTOR SIZE SHALL MATCH EXISTING BUT SHALL BE NO SMALLER THAN 6 AWG AND 6 AWG GND.
- 7 CONTRACTOR SHALL PROVIDE SPARE 1-1/4" CONDUIT FOR SERVICE AND ROUTE TO ROOM 171 OIT IN BUILDING 127.
- 8 CONTRACTOR SHALL CORE DRILL ELECTRICAL UTILITY VAULT FOR CONDUIT AS REQUIRED.
- 9 PRIMARY ARMORED CABLE SHALL BE ROUTED TO OUTER WALLS OF ELECTRICAL UTILITY VAULT AND SUPPORTED TO NOT OBSTRUCT ENTRY.
- 10 EXISTING POLE LIGHT AND BASE TO BE RELOCATED AS SHOWN. EXTEND EXISTING CONDUIT AND WIRE AS REQUIRED. POLE LIGHT SHALL BE REINSTALLED TO MATCH EXISTING INSTALLED CONDITIONS.
- 11 EXISTING CROSSWALK LIGHTS TO BE REMOVED & REINSTALLED FOR SITE WORK CONSTRUCTION. REFERENCE CIVIL DRAWING CD300 FOR ADDITIONAL INFORMATION. LIGHTS SHALL BE REINSTALLED TO MATCH EXISTING INSTALLED CONDITIONS.
- 12 EXISTING MAIN DRIVE LIGHTING CIRCUIT CONSISTS OF A "FULL BOAT" CIRCUIT ROUTED THROUGH A SINGLE CONDUIT. THE "FULL BOAT" CIRCUITS CONSIST OF CIRCUITS 1, 3, AND 5 FROM PANELBOARD '1' OF BUILDING 79.
- 13 EXISTING CONDUIT AND CONDUCTORS BETWEEN LIGHT POLES TO BE DEMOLISHED AS SHOWN. EXISTING LIGHT POLES SHALL BE RECONNECTED WITH NEW CONDUCTORS AND CONDUIT VIA ROUTING THROUGH NEW HANDHOLES AS REQUIRED. COORDINATE INSTALLATION WITH NEW DRIVEWAY ENTRANCE.
- 14 CONTRACTOR SHALL REFERENCE ARCHITECTURAL/STRUCTURAL DRAWING FOR POLE MOUNTING DETAIL.
- 15 PROVIDE WATER PROOF SPLICE KIT TO TAP OFF CIRCUIT '1' FROM PANELBOARD '1' LOCATED IN B.79. THIS NEW CIRCUIT SHALL PROVIDE POWER TO B.127 ENTRY WAY AND WALKWAY POLE LIGHTING.
- 16 PROVIDE (1) 1" C WITH (2) 12 AWG AND (1) 12 AWG FOR PIV SWITCH CONNECTION TO FACP.

KEY PLAN



1 ENLARGED SITE - ELECTRICAL PLAN
1/16" = 1'-0"

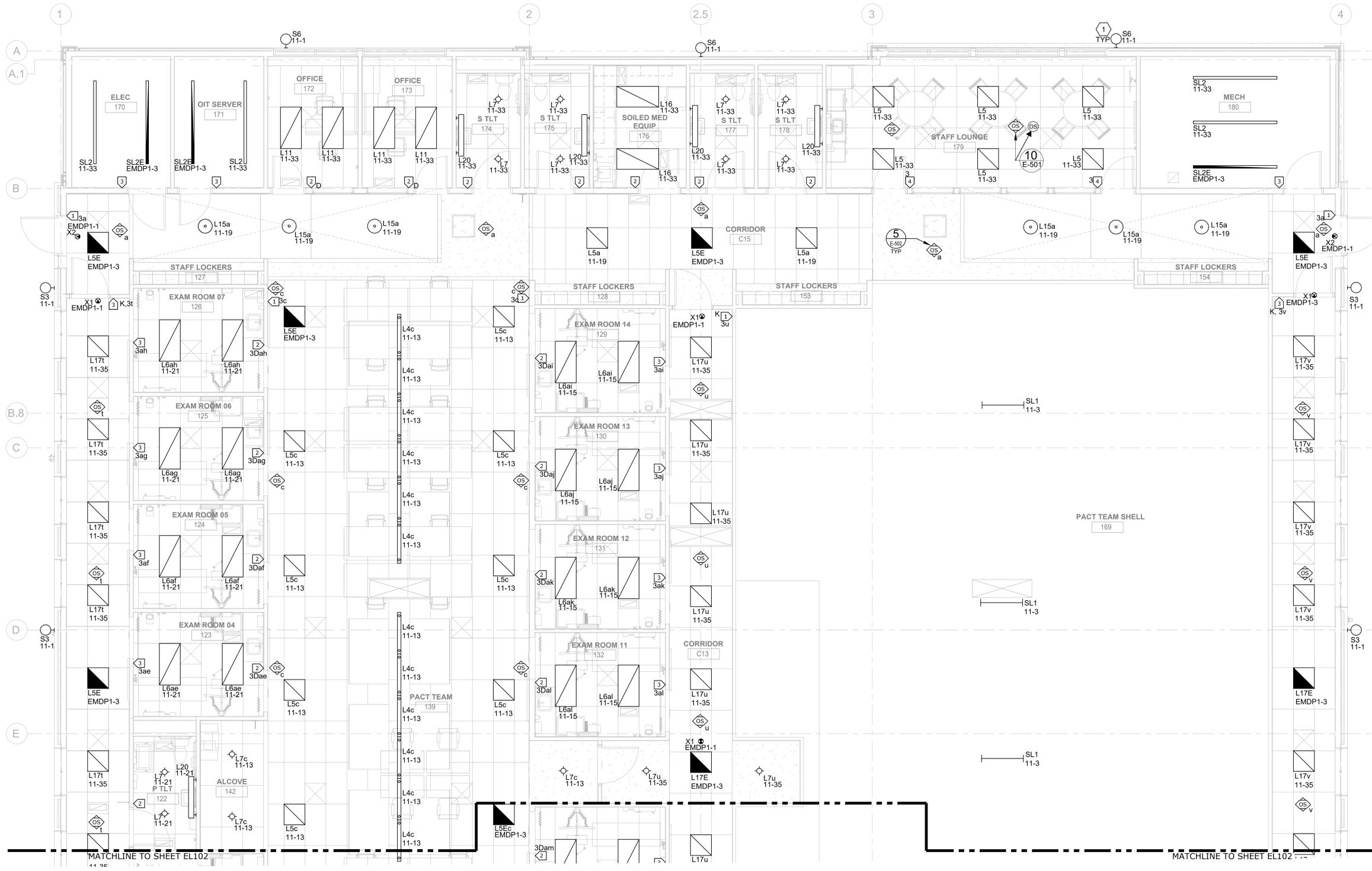
Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	Date:	A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT		VA U.S. Department of Veterans Affairs	ENLARGED SITE - ELECTRICAL PLAN	CONSTRUCTION DOCUMENTS	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING	531-325
					Approved: MEDICAL CENTER DIRECTOR		Location	Building Number
					Approved: CHIEF, FACILITY MANAGEMENT SERVICE		BOISE VA MEDICAL CENTER - BOISE, ID	127
							Issue Date	Drawing Number
							07/23/2021	ES101
							Checked	162 OF 206
							LR / BJR	
							Drawn	
							JPS / FEB	

GENERAL SHEET NOTES

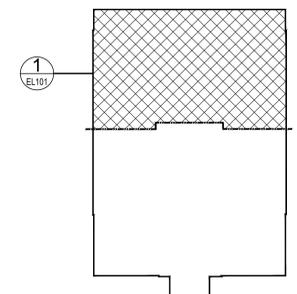
- COORDINATE ALL LIGHTING INSTALLATIONS WITH ALL OBSTRUCTIONS AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL FEATURES, MECHANICAL EQUIPMENT, AND MEDICAL EQUIPMENT.
- EMERGENCY FIXTURES DENOTED BY 'E' SHALL PROVIDE 24-HR OPERATION AND SHALL HAVE CONSTANT HOT UNSWITCHED CIRCUIT.

KEY NOTES (THIS SHEET ONLY)

- ALL BUILDING MOUNTED EXTERIOR LIGHTING IS CONTROLLED VIA (1) PHOTOCELL MOUNTED ON THE ROOF AND LIGHTING CONTACTOR LOCATED IN ELECTRICAL ROOM. REFERENCE SHEETS EL104 AND E-401, RESPECTIVELY, FOR ADDITIONAL INFORMATION.



KEY PLAN



1 LEVEL 1 - LIGHTING PLAN - EAST
1/4" = 1'-0"

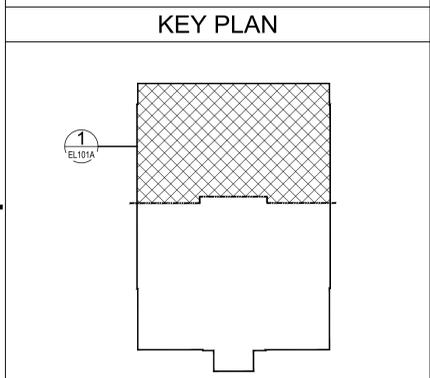
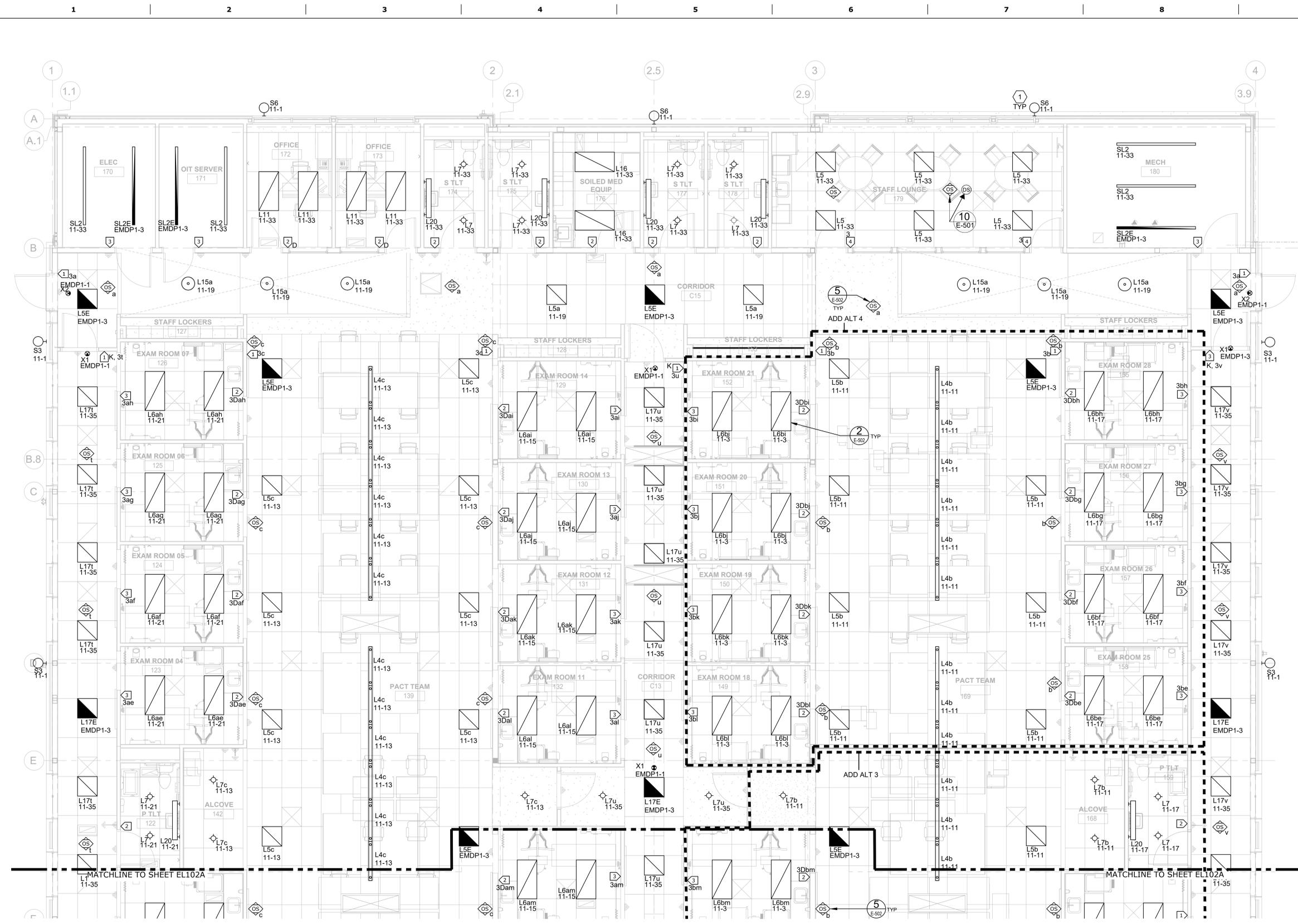
Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	Date:	A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT		VA U.S. Department of Veterans Affairs	LEVEL 1 - LIGHTING PLAN - EAST	CONSTRUCTION DOCUMENTS	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING	531-325
					Approved: Project Director		Location	Building Number
					Approved: CHIEF, FACILITY MANAGEMENT SERVICE		BOISE VA MEDICAL CENTER - BOISE, ID	127
							Issue Date	Drawing Number
							07/23/2021	EL101
							Checked	163 OF 206
							LRL/BJR	
							Drawn	
							JPS/FEB	

GENERAL SHEET NOTES

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1 LEVEL 1 - LIGHTING PLAN - EAST (ADD ALT #3, #4)
 1/4" = 1'-0"
 PROJECT NORTH

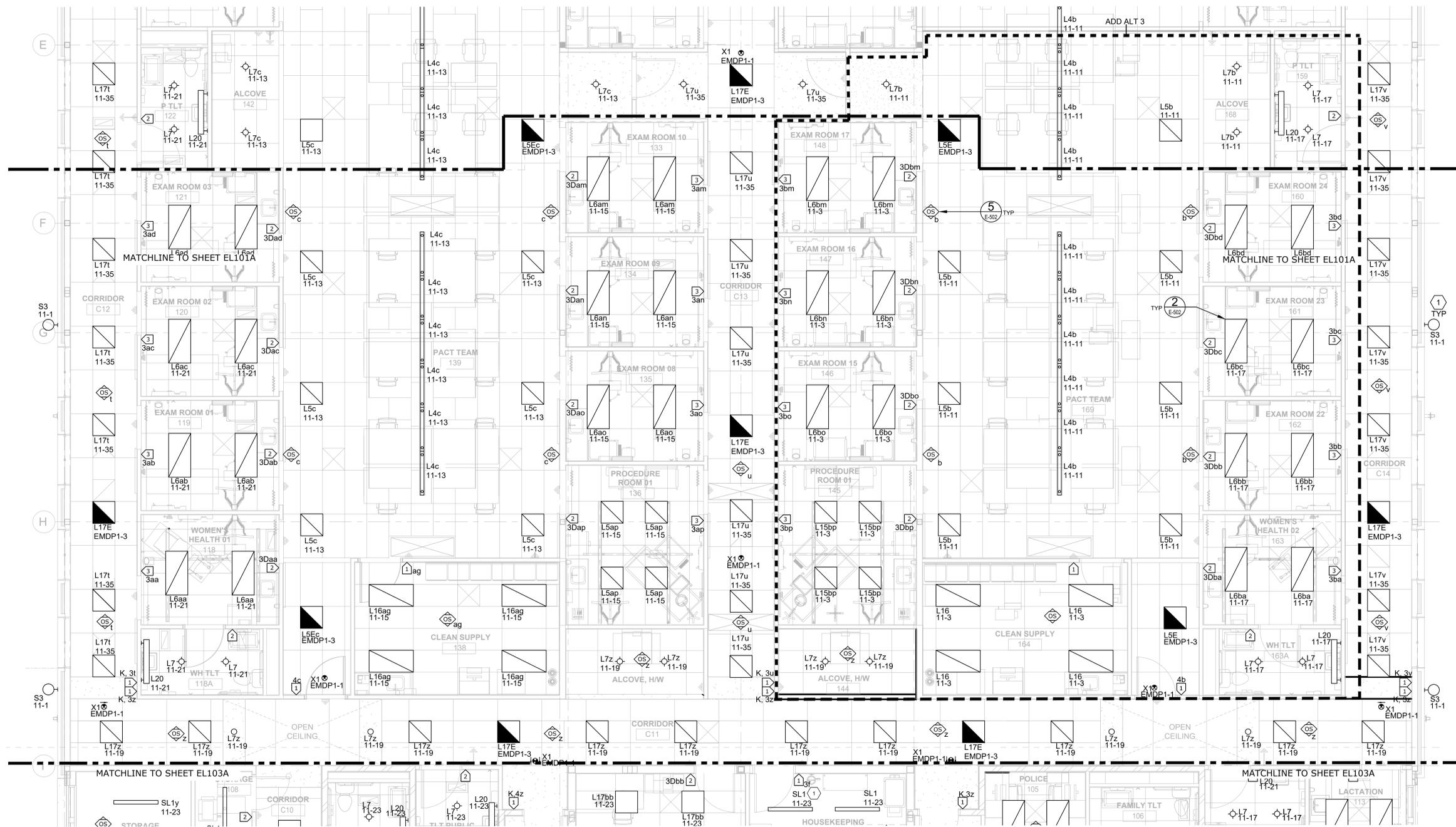
Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	Date:	A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT		VA U.S. Department of Veterans Affairs	LEVEL 1 - LIGHTING PLAN - EAST (ADD ALT #3, #4)	CONSTRUCTION DOCUMENTS	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING	531-325
					Approved: Project Director		Location	Building Number
					Approved: CHIEF, FACILITY MANAGEMENT SERVICE		BOISE VA MEDICAL CENTER - BOISE, ID	127
							Issue Date	Drawing Number
							07/23/2021	EL101A
							Checked	164 OF 206
							LRL/BJR	
							Drawn	
							JPS/FEB	

GENERAL SHEET NOTES

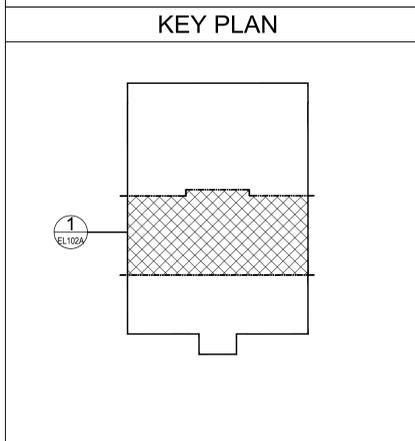
- COORDINATE ALL LIGHTING INSTALLATIONS WITH ALL OBSTRUCTIONS AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL FEATURES, MECHANICAL EQUIPMENT, AND MEDICAL EQUIPMENT.
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1 LEVEL 1 - LIGHTING PLAN - CENTER (ADD ALT #3)
1/4" = 1'-0"



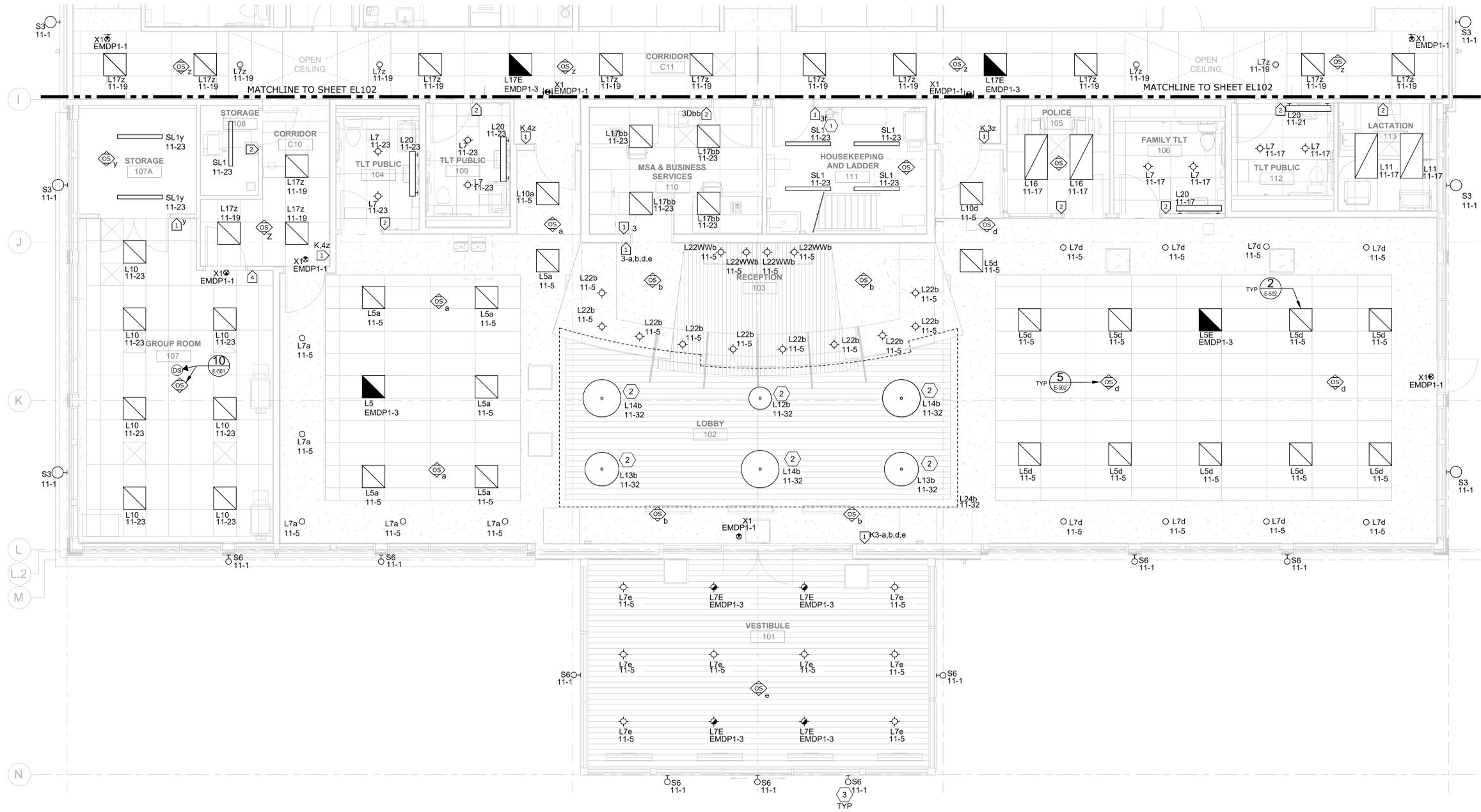
Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	Date:	A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT		VA U.S. Department of Veterans Affairs	LEVEL 1 - LIGHTING PLAN - CENTER (ADD ALT #3)	CONSTRUCTION DOCUMENTS	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING	531-325
					Approved: Project Director		Location	Building Number
					Approved: CHIEF, FACILITY MANAGEMENT SERVICE		BOISE VA MEDICAL CENTER - BOISE, ID	127
							Issue Date	Drawing Number
							07/23/2021	EL102A
							Checked	166 OF 206
							LRL/BJR	
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							JPS/FEB	

GENERAL SHEET NOTES

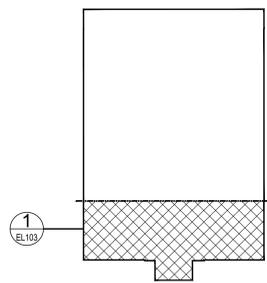
- COORDINATE ALL LIGHTING INSTALLATIONS WITH ALL OBSTRUCTIONS AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL FEATURES, MECHANICAL EQUIPMENT, AND MEDICAL EQUIPMENT.
- EMERGENCY FIXTURES DENOTED BY AN 'E' SHALL PROVIDE 24-HR OPERATION AND SHALL HAVE CONSTANT HOT UNSWITCHED CIRCUIT.

KEY NOTES (THIS SHEET ONLY)

- 3-WAY SWITCH TIED TO SWITCH AT TOP OF MECHANICAL PENTHOUSE STAIRS.
- CONTRACTOR SHALL VERIFY MOUNTING HEIGHT WITH ARCHITECT.
- ALL BUILDING MOUNTED EXTERIOR LIGHTING IS CONTROLLED VIA (1) PHOTOCELL MOUNTED ON THE ROOF AND LIGHTING CONTACTOR LOCATED IN ELECTRICAL ROOM. REFERENCE SHEETS EL104 AND E-401, RESPECTIVELY, FOR ADDITIONAL INFORMATION.



KEY PLAN



1 LEVEL 1 - LIGHTING PLAN - WEST
 1/4" = 1'-0"
 PROJECT NORTH

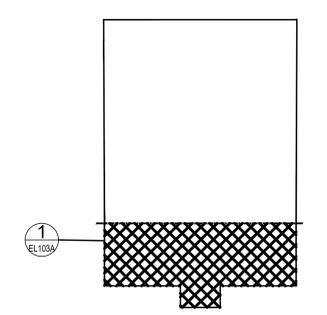
Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	Date:	A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT	Professional Engineer Louis R. Litvko 17711 7-2-21 STATE OF WASHINGTON	VA U.S. Department of Veterans Affairs	LEVEL 1 - LIGHTING PLAN - WEST	CONSTRUCTION DOCUMENTS	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING	531-325
					Approved: Project Director		Location	Building Number
					Approved: CHIEF, FACILITY MANAGEMENT SERVICE		BOISE VA MEDICAL CENTER - BOISE, ID	127
							Issue Date	Drawing Number
							07/23/2021	EL103
							Checked	167 OF 206
							LRL/BJR	
							Drawn	
							JPS/FEB	

GENERAL SHEET NOTES

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KEY PLAN



1 LEVEL 1 - LIGHTING PLAN - WEST (ADD ALT #1)
 1/4" = 1'-0" PROJECT NORTH

Revisions:	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number
	Date:	A/E: SPEES DESIGN BUILD 625 1ST AVE #301 SEATTLE, WA, 98014 (206) 590 - 2118 RAY SPEES, PRESIDENT	Professional Engineer Louis R. Litzyko 17711 7-22-22 STATE OF WASHINGTON	VA U.S. Department of Veterans Affairs	LEVEL 1 - LIGHTING PLAN - WEST (ADD ALT #1)	CONSTRUCTION DOCUMENTS	CONSTRUCT PRIMARY CARE / MENTAL HEALTH BUILDING	531-325
					Approved: Project Director		Location	Building Number
					Approved: CHIEF, FACILITY MANAGEMENT SERVICE		BOISE VA MEDICAL CENTER - BOISE, ID	127
							Issue Date	Drawing Number
							07/23/2021	EL103A
							Checked	168 OF 206
							LRL/BJR	
							JPS/FEB	

