DWV DRAIN WASTE VENT

PLUMBING ABBREVIATIONS

GAL GALLON M METER GCO GRADE CLEANOUTS MA MEDICAL AIR GPD GALLONS PER DAY MAV MANUAL AIR VENT GPH GALLONS PER HOUR MBH 1000 BTUH GPM GALLONS PER MINUTE MED MEDICAL GPR GAS PRESSURE REGULATOR MER MECHANICAL EQUIPMENT GRS GAS REGULATOR STATION GREASE TRAP MH MANHOLE GVTR GAS VENT THROUGH ROOF MOU MEMORANDUM OF GWH GAS FIRED WATER HEATER MSB MOP SERVICE BASIN MV MEDICAL VACUUM H&CW HOT AND COLD WATER HB HOSE BIBB HUB DRAIN HEAT EXCHANGER HORSEPOWER HAND SINK HOT WATER STORAGE TANK (DOMESTIC) HWB HOT WATER BOILER HWCP HOT WATER CIRCULATING PUMP HWP HOT WATER PUMP

HD

HYD HYDRANT

INV INVERT

IRW IRRIGATION WATER

KWH KILOWATT-HOUR

IWH INSTANTANEOUS WATER HEATER

LITER PER SECOND

LABORATORY COLD WATER

LABORATORY HOT WATER

LIQUID NATURAL GAS

LABORATORY VACUUM

LABORATORY AIR

LIQUID OXYGEN

LOW WATER

LAVATORY

LBS/HR POUNDS PER HOUR

IWR INDUSTRIAL WATER RETURN

IWS INDUSTRIAL WATER SUPPLY

IW INDIRECT WASTE

KW KILOWATT

LOX

N2 NITROGEN N20 NITROUS OXIDE NC NORMALLY CLOSED NG NATURAL GAS NIC NOT IN CONTRACT NO NORMALLY OPEN NOM. NOMINAL NPW NON POTABLE WATER NTS NOT TO SCALE O2 OXYGEN ID INSIDE DIAMETER OC ON CENTER INVERT ELEVATION OD OUTSIDE DIAMETER ICW INDUSTRIAL COLD WATER IHW INDUSTRIAL HOT WATER IPC INTERNATIONAL PLUMBING CODE

OFD OVERFLOW DRAIN OR OPERATING ROOM OVFL OVERFLOW

ROOM

UNDERSTADING

PARTS PER MILLION PRESSURE REDUCING STATION WATER CLOSET PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH WALL CLEANOUT POUNDS PER SQUARE INCH WATER GAGE **ATMOSPHERE** WALL HYDRANT WATER HEATER POUNDS PER SQUARE INCH WATER HAMMER ARRESTER PTRV PRESSURE TEMPERATURE RELIEF WATER LINE WATER METER WATER PRESSURE DROP POTABLE WATER WASTE STACK WS ROOF DRAIN WSFU WATER SUPPLY FIXTURE UNITS ROOF DRAIN LEADER ROOF LEADER YCO YARD CLEANOUT RECIRCULATION PUMP YARD HYDRANT REVERSE OSMOSIS WATER REVERSE OSMOSIS WATER RETURN RAIN WATER LEADER SANITARY SEWER SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION STANDARD CUBIC FOOT/MINUTE SCW SOFTENED COLD WATER SDMH STORM DRAIN MANHOLE SANITARY MANHOLE SMH SUMP PUMP SPRINKLER LINE SQFT/SF SQUARE FEET STAINLESS STEEL STORAGE TANK

VENT

VACUUM

VACUUM BREAKER

VACUUM PUMP

VENT STACK

VACUUM CLEANER OUTLET

VARIABLE SPEED DRIVE

VENT THROUGH ROOF

VAC

VCO

VSD VTR

VΒ

INTERNATIONAL PLUMBING CODE

PRESSURE DROP OR

PLUMBING AND DRAINAGE

PASCAL

DIFFERENCE

PRESSURE GAGE

PLUMBING PUMP

STORM WATER

TRENCH DRAIN

TEMPERATURE

TRAP PRIMER

THERMOSTAT

TYPICAL

TSTAT

TEMPERATURE CONTROL

TOTAL DYNAMIC HEAD

TEMPERATURE DIFFERENCE

THERMOSTATIC MIXING VALVE

TEMPERED WATER RETURN TEMPERED WATER SUPPLY

INSTITUTE

PD

GENERAL NOTES (TYPICAL ALL SHEETS)

EXACT DEPTH AND/OR LOCATIONS ON JOB SITE. CONTRACTOR SHALL REROUTE NEW WORK TO

SITE AND DISPOSED OF BY CONTRACTOR.

*PLUMBING CONTRACTOR IS RESPONSIBLE TO SEE THAT WORK MEETS AND IS IN ACCORDANCE WITH ALL REQUIREMENTS OF FEDERAL, STATE, AND LOCAL LAWS AND CODES AND/OR REQUIREMENTS, INCLUDING HEALTH CODES AND BUILDING OWNER. * ALL EXISTING PIPING SHOWN ON DRAWINGS IS SCHEMATIC AND IS BASED ON EXISTING RECORD DRAWINGS

PROVIDED BY THE OWNER AND DO NOT REFLECT EXACT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY

ACCOMMODATE EXÁCT LOCATIONS OF EXISTING UTILITIES, STUBOUTS AND/OR CONNECTIONS. * CUTTING AND PATCHING OF FLOORS, WALLS, CEILING, ETC., REQUIRED IN STRICT ACCORDANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECT'S AND/OR LANDLORD'S REQUIREMENTS. *COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID ROUTING CONFLICTS. * ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED FROM PROJECT

*INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES PASSING THRU INTERIOR NON- RATED CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM- BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

* PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT BY OTHERS. VERIFY CONNECTIONS SIZES AND REQUIREMENTS. * PIPING ROUTED BELOW COUNTER IN CABINETS SHALL BE ROUTED AS NOTED. NOT TO INTERFERE WITH DRAWERS, SHELVES, EQUIPMENT, ETC., AND SUPPORT FROM BACK WALL OF CABINET. *PLUMBING CONTRACTOR SHALL BID AND SCHEDULE ALL CORE DRILLING AND HAMMER DRILLING FOR AFTER BUSINESS HOURS OR AS DIRECTED BY THE V.A. *PLUMBING CONTRACTOR SHALL SCAN FLOOR UTILIZING GROUND PENETRATING RADAR PRIOR TO ANY CORE DRILLING OR SAW CUTTING OF SLAB AND SHALL VERIFY PLACEMENT WITH BUILDING OWNER'S REPRESENTATIVE PRIOR TO DRILLING.

* UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC MAY BE RELEASED. * CONNECTIONS TO EXISTING BUILDING UTILITIES ARE REQUIRED AS INDICATED WHICH ARE OUTSIDE THE PROJECT SCOPE AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXACT POINTS OF CONNECTION AND ROUTING TO THESE SERVICES AS WELL AS COORDINATING ACCESS TO THESE AREAS WITH VA PERSONNEL. CONTRACTOR SHALL MINIMIZE DISRUPTION TO VA OPERATIONS AND SHALL OBTAIN WRITTEN APPROVAL OF VA PERSONNEL FOR ROUTING. GRANTING ACCESS AND TIMES SHALL BE WHOLLY AT THE DISCRETION OF VA PERSONNEL.

* VERIFY UTILITY REQUIREMENTS OF ALL OWNER FURNISHED EQPT & INSTALL IN ACCORDANCE WITH ALL EQPR. MFGR REQUIREMENTS.

GENERAL PLUMBING SYMBOLS

DIRECTION OF PIPE PITCH (DOWN) DIRECTION OF FLOW ____ REDUCER OR INCREASER TOP CONNECTION, 45° OR 90° BOTTOM CONNECTION, 45° OR 90° SIDE CONNECTION CAPPED OUTLET RISE OR DROP IN PIPE UNION PIPE UP PIPE DOWN **—** POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK STRAINER WITH BLOW DOWN VALVE

THERMOMETER

P () PRESSURE GAGE co O-----CLEAN OUT FINISH FLOOR CLEAN OUT FFC0 O-

WALL CLEAN OUT

PLUMBING VALVE SYMBOLS

GATE VALVE $\longrightarrow \bowtie$ CHECK VALVE BUTTERFLY VALVE MODULATING CONTROL VALVE

DRAWING SYMBOLS

CIRCUIT SETTER VALVE

DETAIL NUMBER _____ DRAWING NUMBER WHERE DRAWN _ SECTION LETTER DRAWING NUMBER WHERE SHOWN BUILDING NO. WHERE EQUIPMENT IS LOCATED. EQUIPMENT ABBREVIATION (PUMP)

- FYMEALNOWITHN BUILDING NO.26

PILIMBING PIPING SYMBOLS

	FLUMBING	FIFING SIMIDULS	
COLD WATER	CW		DOMESTIC COLD WATER, COLD WATER
HOT WATER	HW		DOMESTIC HOT WATER, HOT WATER
HOT WATER RETURN	HWR		DOMESTIC HOW WATER RETURN, HOT WATER RETURN
SANITARY VENT	V		VENT (SANITARY)
SANITARY WASTE	————W———	— ss — ss — ss —	SOIL, WASTE, OR SANITARY SEWER
SANITARY WASTE, BELOW GRADE	E — — — — —	SANSANSAN	SANITARY SEWER, BELOW GRADE
COMPRESSED AIR	CA		

WATER SOFTENER SCHEDULE ELECTRICAL WATER PRESSURE DESIGN FLOW DELTA P CONTINUOUS DELTA P PEAK FLOW DELTA P REGEN TIME BACKWASH FLOW RECOND WATER RESIN QUANTITY UNIT CAPACIT WATER kgr @105 # SALT SYSTEM TO BE COMPLETE WITH PRESSURE VESSELS, SOFTENING RESIN, CONTROL VALVES, BRINE MAKER AND ELECTRONIC CONTROLLER. SYSTEM SHALL INCLUDE A TOP MOUNTED CONTROL VALVE, WITH AN UPPER DISTRIBUTION SINGLE POINT DISTRIBUTOR SYSTEM. CONTROLS SHALL BE FULLY AUTOMATIC MICROPROCESSOR BASED WITH A CONTROLLER THAT SEQUENCES ALL STEPS OF AUTOMATIC REGENERATION. TOTAL SYSTEM CAPACITY OF152 GPM AT 15 PSIG WITH GRAIN REDUCTION TO <1 WITH DAILY USAGE ESTIMATED AT 3000 GALLONS. PIPE WITH BYPASS PER MANUFACTURER REQUIREMENTS, RE: DETAIL. MOUNT ON 4" CONCRETE PAD.

								OPERATING		ELECTRIC	AL			
MARK	MANUFACTURER	MODEL	USE	TYPE	PUMP	STAGES	FLOW	PRESSURE	RPM					NOTES
NO.					TYPE		(CFM)	(FT.)		VOLT	Ø	HZ	HP	
1-AC-1	ATLAS COPCO	SF-1-6 + 116AFF MONO	LAB CONTROL AIR	TANK MOUNTED	OIL FREE SCROLL	ONE	20	116	2450	460	3	60	7 1/2	1,2

				TANK				Е	LECTRICA	L	
MARK	MANUFACTURER	MODEL	TANK	CAPACITY	RECOVERY	INPUT	THERMAL EXPANSION				NOTES
NO.		NO.	LINING	(GAL)	(GPH @ 90 F)	(KW)	TANK MODEL NO.	VOLT	Ø	HZ	
1-DWH-1	AO SMITH	DSE-120-60	GLASS	120	254	60	DETA 30	480	3	60	1,2,3,4
NOTES:	 PROVIDE WITH ANO 	DE,HIGH TEMPE	RATURE CUTC	FF, TEMPERAT	URE AND PRESSUR	E RELIEF VALV	E AND DRAIN.				
	2. PROVIDE WITH ASM	E CODE 15 GALI	LON BLADDER	THERMAL EXPA	ANSION TANK, WATT	S MODEL SCHI	EDULED WITH WATTS SCV SERV	ICE CHECK	VALVE.		
	3. 125 PSI ASME CODE	HEATER CONS	TRUCTION.								
	4. MOUNT ON 4" CONC	RETE PAD									

ELEVATION

AGENCY

EXISTING

F FAHRENHEIT

FD FLOOR DRAIN

FM FLOW METER

FOP FUEL OIL PUMP

FOR FUEL OIL RETURN

FOS FUEL OIL SUPPLY

FOV FUEL OIL VENT

FS FLOOR SINK

FS FLOW SWITCH

FU FIXTURE UNITS

FCO FLOOR CLEANOUT

FDC FIRE DEPARTMENT

FCW FILTERED COLD WATER

(HOSE) CONNECTION

ESCUTCHEON

ESC

ESH

EWS

ENERGY MONOSERRAT

ENERGY POLICY ACT

EMERGENCY SHOWER

ELECTRIC WATER HEATER

EXPANSION TANK

EYE WASH STATION

EWS/SH EYE WASH/DRENCH SHOWER

AND CENTRAL SYSTEM

ENVIROMENTAL PROTECTION

PLUMBING FIXTURE OR ITEMS		DRAIN-	WASTE-SO	IL-VENT	COLD	WATER	HOT V	VATER	NOTES	
	TRAP	ARM	VERT	HORIZ	VENT	SUPPLY	BRANCH	SUPPLY	BRANCH	
WATER CLOSET (FLUSH VALVE)	INT	3	4	4	2	1	1 1/4	-	-	
URINAL	2	2	2	2	1 1/2	3/4	3/4	-	-	
LAVATORY	1 1/2	1 1/2	1 1/2	2	1 1/2	1/2	1/2	1/2	1/2	
SINK	1 1/2	1 1/2	2	2	1 1/2	1/2	1/2	1/2	1/2	1
DRINKING FOUNTAIN	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1/2	1/2	-	-	
SERVICE SINK	3	3	3	3	1 1/2	1/2	1/2	1/2	1/2	
SHOWER	2	2	2	2	1 1/2	1/2	1/2	1/2	1/2	1
2" FLOOR/EQMT DRAIN	2	2	2	2	1 1/2	-	-	-	-	1
3" FLOOR/EQMT DRAIN	3	3	3	3	1 1/2	-	-	-	-	1
HOSE BIB	-	-	-	-	-	3/4	3/4	-	-	

AIR	COMPRES	SSOR SCHE	DULE											
								OPERATING		ELECTRIC	AL			
MARK	MANUFACTURER	MODEL	USE	TYPE	PUMP	STAGES	FLOW	PRESSURE	RPM					NOTES
NO.					TYPE		(CFM)	(FT.)		VOLT	Ø	HZ	HP	
1-AC-1	ATLAS COPCO	SF-1-6 + 116AFF MONO	LAB CONTROL AIR	TANK MOUNTED	OIL FREE SCROLL	ONE	20	116	2450	460	3	60	7 1/2	1,2
														T
NOTES: 1	DUAL CARTRIDGE D CONTROLS, STATUS	IMPLEX PUMP WITH FULL FEATUF ESICCANT DRYER, MANUAL AND S AND INDICATOR LIGHTS, INTEGF RETE PAD AND SPRING ISOLATOF	ELECTRONIC AUTO DRAIN RATED AFTER FILTER, LOC	IER, UNIT MOUNTED CON	NTROL PANEL WITH DISC	ONNECT SWI		•		Y				

Description 95% Submittal 100% Submittal 8/16/16

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VA EASTERN KANSAS HEALTH CARE SYSTEM

Dwight D. Eisenhower VA Medical Center Leavenworth Colmery-O'Neil VA Medical Center Topeka



U.S. Department of Veterans Affairs

Project Title: Drawing Title: PLUMBING-SYMBOLS AND SCHEDULES

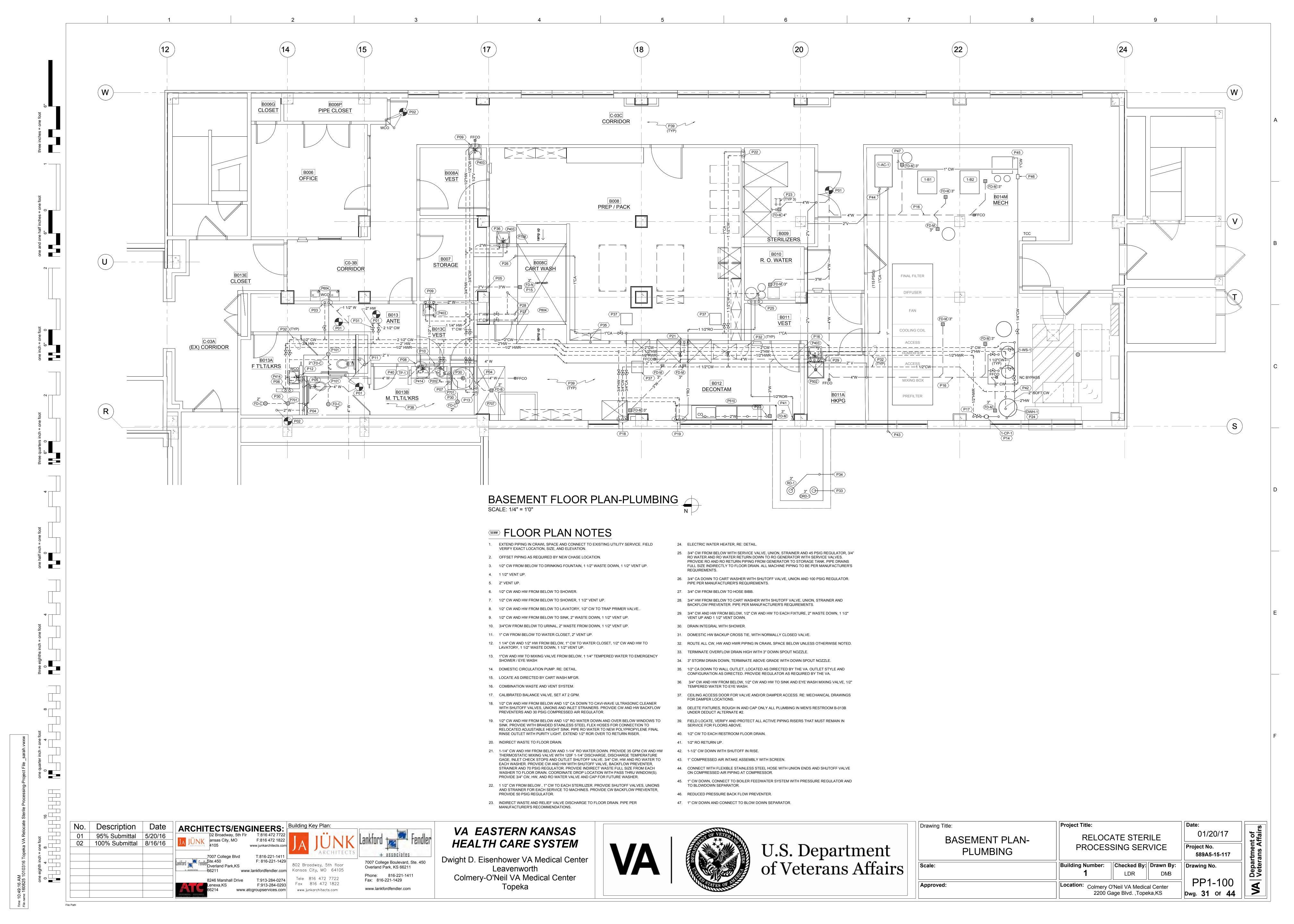
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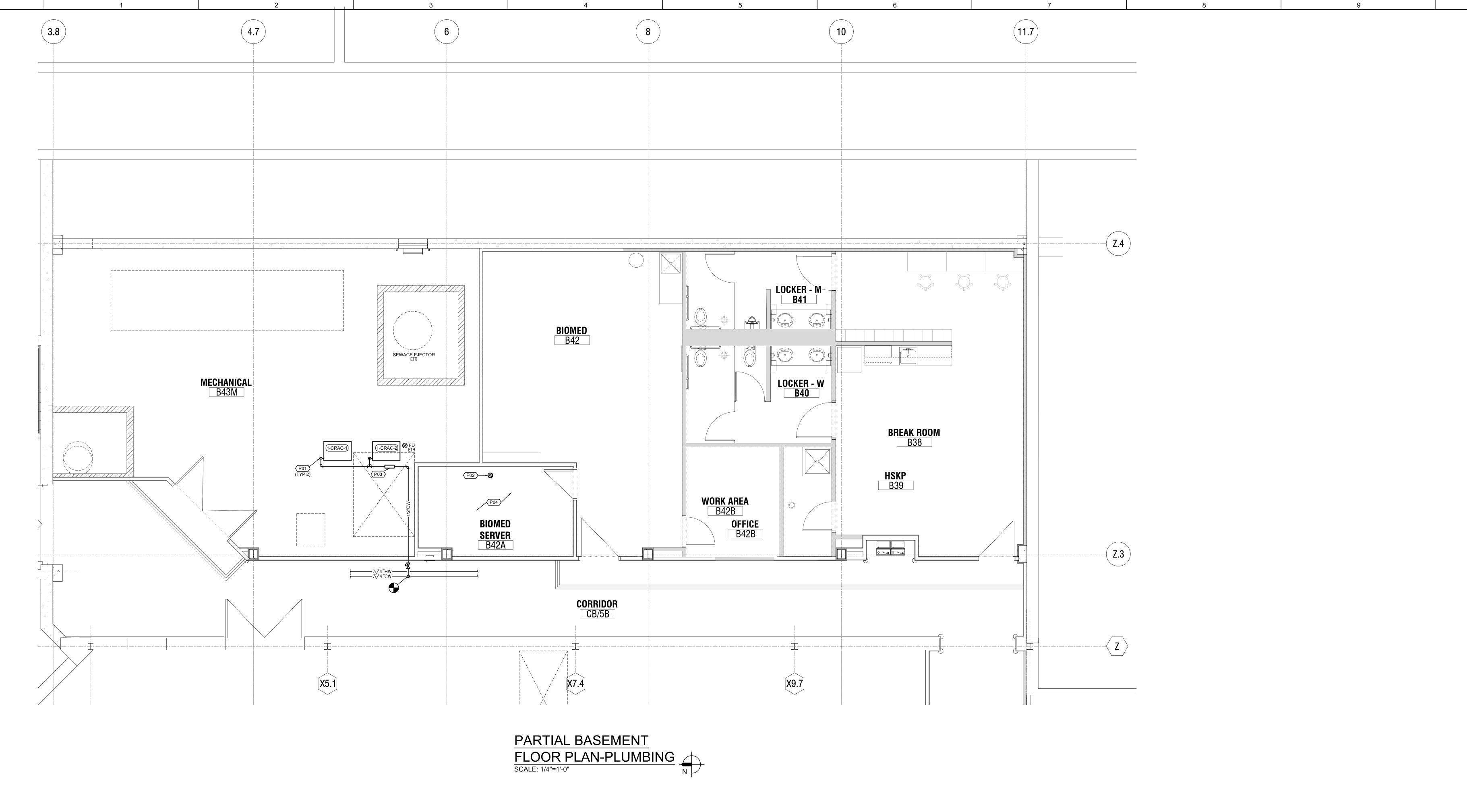
RELOCATE STERILE PROCESSING SERVICE

Building Number: Checked By: Drawn By: LDR Location: Colmery O'Neil VA Medical Center 2200 Gage Blvd. ,Topeka,KS

01/20/17 589A5-15-117 PG1-300 Dwg. 30 Of 44

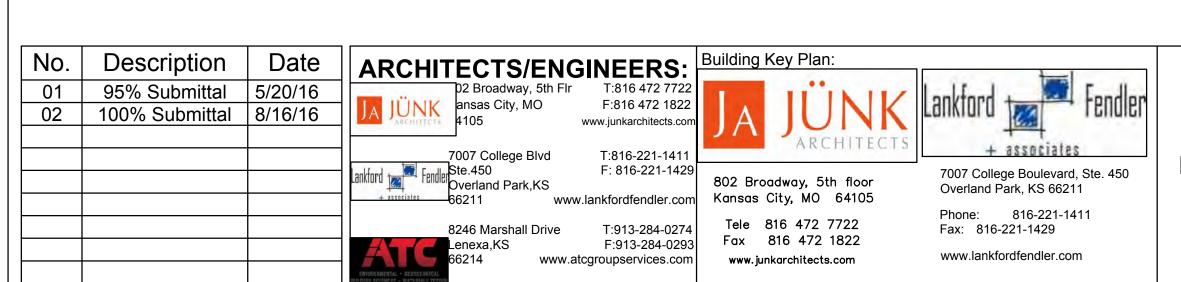
Drawing No.





FLOOR PLAN NOTES

- 1. 1/2" CW DOWN TO HUMIDIFIER CONNECTION FOR CRAC UNIT WITH SHUTOFF VALVE.
- 2. REMOVE EXISTING FLOOR DRAIN, CAP WASTE, AND PATCH FLOOR.
- 3. REDUCED PRESSURE BACKFLOW PREVENTER. PIPE DRAIN TO FLOOR DRAIN.
- 4. OMIT ALL PLUMBING WORK ASSOCIATED WITH BIOMED SERVER ROOM B42A AS PART OF DEDUCT ALTERNATE 1.

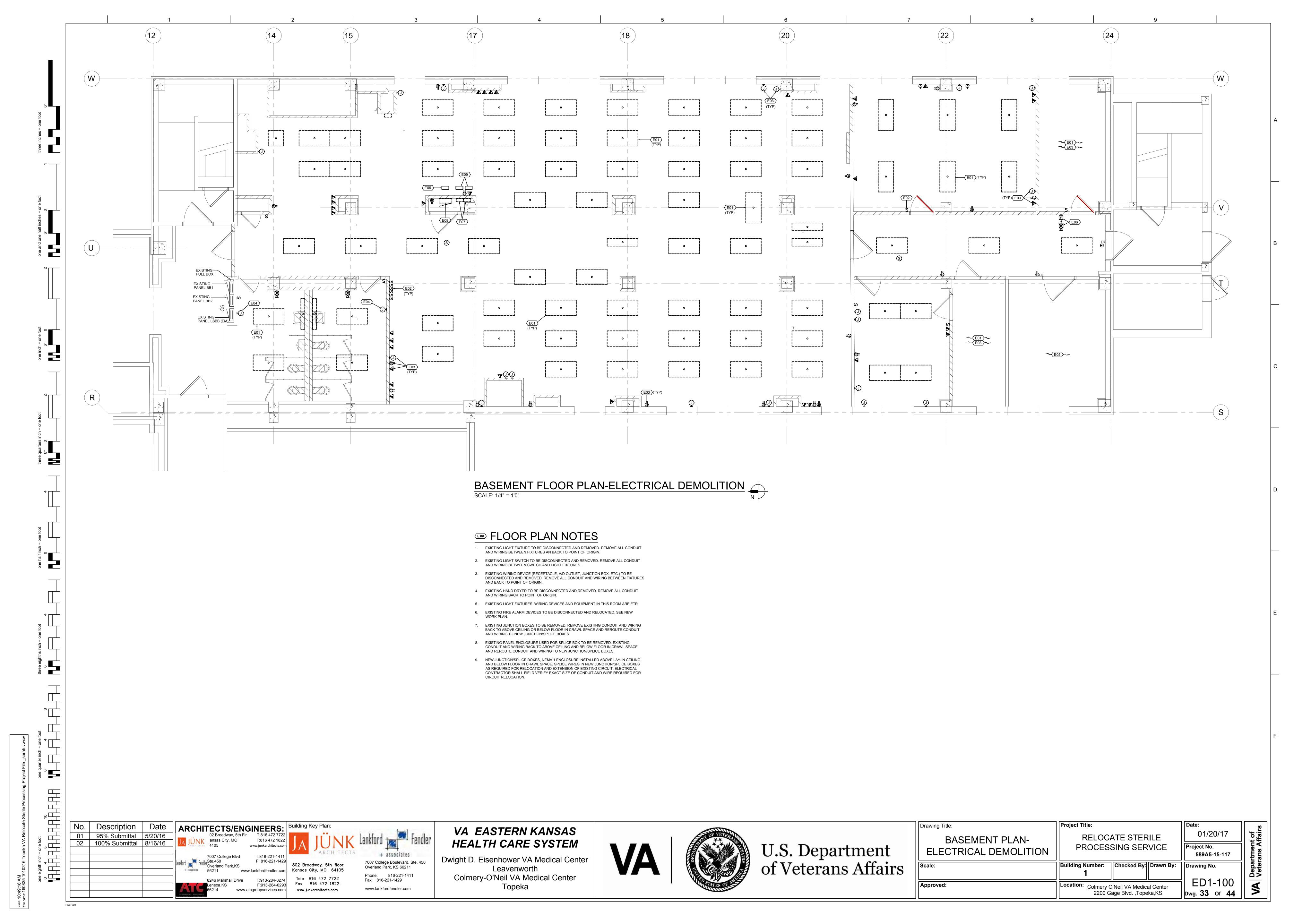


VA EASTERN KANSAS HEALTH CARE SYSTEM

Dwight D. Eisenhower VA Medical Center Leavenworth Colmery-O'Neil VA Medical Center Topeka



rawing Title:	Project Title:			Date:
BASEMENT PLAN-	RELOCA	ATE STER	RILE	01/20/17
PLUMBING	PROCESS	SING SER	VICE	Project No. 589A5-15-117
cale:	Building Number:	Checked By:	Drawn By:	Drawing No.
	1	LDR	DMB	
pproved:		'Neil VA Medica age BlvdTope		PP1-101



SYSTEM NO. 49 F RATINGS - 2 AND 3 HR. (SEE ITEM 2A) T RATING - O HR.

- FLOOR OR WALL ASSEMBLY MINIMUM 4 1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF CIRCULAR THROUGH OPENING SEE CONCRETE BLOCK (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- 1A.) STEEL SLEEVE (OPTIONAL, NOT SHOWN) NOMINAL 12" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE SLEEVE CAST INTO CONCRETE FLOOR OR WALL. SLEEVE TO BE FLUSH WITH OR PROJECT MAX 2" FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.
- PIPE OR CONDUIT NOMINAL 20" DIAMETER (OR SMALLER) SCHEDULE 10S (OR HEAVIER) STEEL PIPE, NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT, NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIÈR) COPPER TUBE, NOMINAL 4" DIAMETER, (OR SMALLER) CAST IRON PIPE OR NOMINAL. 4" DIAMETER. (OR SMALLER) STEEL EMT. MAXIMUM ONE PIPE OR CONDUIT PER THROUGH OPENING, MAXIMUM ANNUI AR SPACÉ BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS ZERO IN (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
- 2A.) STEEL VENT DUCT (NOT SHOWN) AS AN ALTERNATE TO THE PIPE OR CONDUIT, NOMINAL 4" DIAMETER (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALVANIZED STEEL VENT DUCT MAY BE USED IN THROUGH OPENINGS OF FLOOR ASSEMBLIES PROVIDED MAXIMUM ANNULAR SPACE DOES NOT EXCEED 7/8". WHEN STEEL VENT DUCT IS USED, F RATING
- PACKING MATERIAL POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY-PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL-WOOL BATT OF GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4) AS AN ALTERNATE WHEN MAXIMUM PIPE SIZE IS 10" DIAMETER AND WHEN MAXIMUM ANNULAR SPACE IS 1" OR LESS, A MINIMUM 1" THICKNESS OF TIGHTLY-PACKED CERAMIC FIBER BLANKET OR MINERAL-WOOL BATT PACKING MATERIAL MAY BE RECESSED MINIMUM 1/2" FROM BOTTOM SURFACE OF FLOOR OR FROM EITHER SIDE OF WALL.
- 4.) FILL, VOID OR CAVITY MATERIALS* -CAULK- APPLIED TO FILL THE ANNULAR SPACE TO THE MINIMUM THICKNESS SHOWN IN THE FOLLOWING TABLE:

_			
MAXIMUM PIPE DIAMETER. (IN.)	MAXIMUM ANNULAR SPACE (IN.)	PACKING MATERIAL TYPE (a)	MINIMUM CAULK THICKNESS (IN.)
10	1	BR, CF, GF or MW	1/2 (b)
10	1	CF or MW	1/2 (C)
20	2 1/2	BR, CF, GF or MW	1 (b)

- BR = POLYETHYLENE BACKER ROD. CF = CERAMIC FIBER BLANKET. GF = GLASS FIBER INSULATION.
- MW = MINERAL-WOOL BATT. CAULK INSTALLED FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACE OF WALL CAULK INSTALLED FLUSH WITH BOTTOM SURFACE OF FLOOR OR ONE SURFACE OF WALL * BEARING THE UL CLASSIFICATION MARKING

CONCRETE WALL

FIRE STOPPING DETAIL

PLAN VIEW

RECEPTACLE -

COMMUNICATION

NOTE: ALIGN ALL DEVICES VERTICALLY. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL, CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED COSTS ASSOCIATED

3 TYPICAL WALL MOUNTING DEVICE DETAIL

OFFSET CONDUIT TO ALLOW | | | |

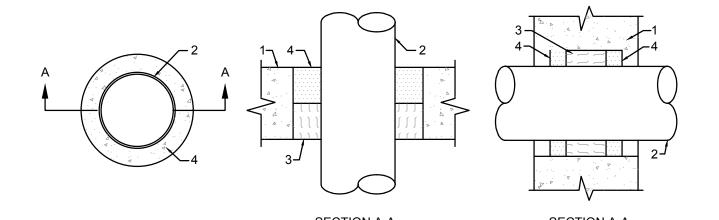
COMBINATION

HORN/STROBE LIGHT-

THERMOSTAT ——

DUPLEX RECEPTACLE —

WITH THE RELOCATION(S).



SYSTEM NO. CAJ1012 (FORMERLY SYSTEM NO. 129)

T RATING - O HR. FLOOR OR WALL ASSEMBLY - MINIMUM 5" THICK REINFORCED NORMAL WEIGHT (100 -150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRÉTE BLOCKS*. MAXIMUM DIAMETER OF OPENING IS 6". SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY

FOR NAMES OF MANUFACTURERS.

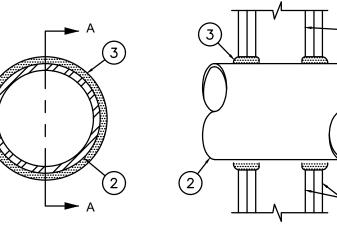
F RATINGS - 1 HR.

- THROUGH PENETRANTS ONE METALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOMINAL ANNULAR SPACE OF 3/4" IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
- A. STEEL PIPE NOMINAL 4" DIAMETER (OR SMALLER) SCHEDULE 5 (OR HEAVIER) B. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) ELECTRICAL METALLIC TUBING
- PACKING MATERIAL MINIMUM 3" THICKNESS OF MINIMUM 4.4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE CENTERED IN WALL'S MID-DEPTH AND RECESSED TO ALLOW FOR INSTALLATION
- 4.) FILL, VOID OR CAVITY MATERIAL* SEALANT OR FOAM MINIMUM 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. IN WALL, FILL MATERIAL TO BE APPLIED ON EACH SIDE OF PACKING MATERIAL. FOAMED SILICONE TO BE INSTALLED AS DESCRIBED IN THE MANUFACTURER'S APPLICATION INSTRUCTIONS AT A DENSITY OF 14 PCF MINIMUM TO 21 PCF MAXIMUM. THE THICKNESS OF FILL MATERIAL IS DEPENDENT UPON THE TYPE OF FILL MATERIAL

AS SHOWN IN THE TABLE BELOW.	
FILL MATERIAL IDENTIFICATION	MINIMUM THICK OF FILL MATERIAL, (IN.)
TYPE FS FOAM TYPE FS SEALANT OR	1 1/2

FS SEALANT SL DOW CORNING CORP. - TYPES FS SEALANT, FS SEALANT SL (FLOOR ONLY) OR FS * BEARING THE UL CLASSIFICATION MARKING.

SYSTEM NO. WL1001 (FORMERLY SYSTEM NO. 147) F RATINGS - 1,2,3 AND 4 HR. (SEE ITEM 2 & 3) T RATINGS - 0,1,2,3 AND 4 HR. (SEE ITEM 3)



SECTION A-A

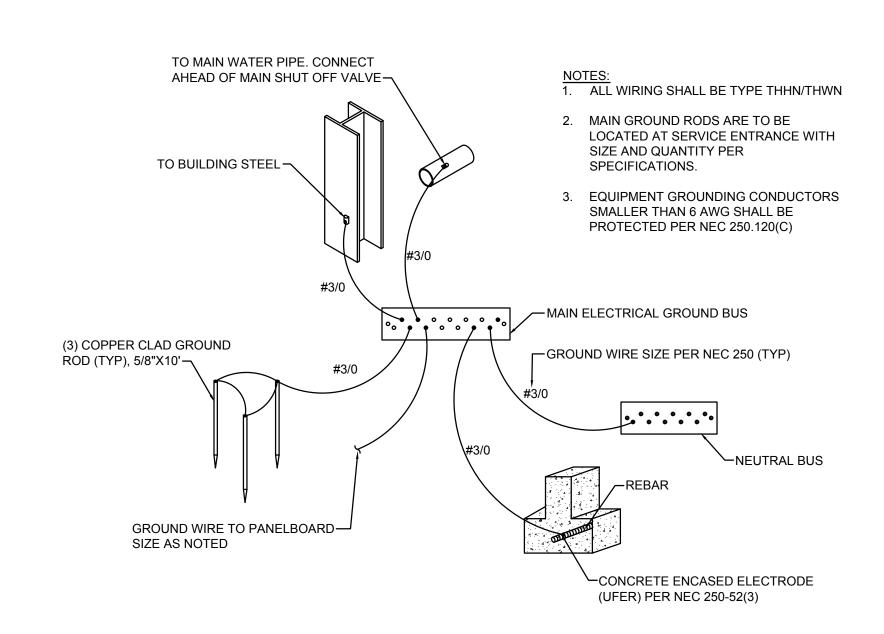
- 1.) WALL ASSEMBLY THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 HR. FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN O.C
 - WALLBOARD, GYPSUM *-NOM 1/2 OR 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES HE GYPSUM WALLBOARD TYPE. THICKNESS. NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPEĆIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 13-1/2 IN.
- 2.) PIPE OR CONDUIT NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT. NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY
- 3.) FILL, VOID OR CAVITY MATERIAL *-CAULK-CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRE-STOP SYSTEM IS DEPENDENT UPON THE TYPE OF SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. AS TABULATED BELOW:

11112 10 (111140 01	THE WALLACOLINDER IN WHICH	TIT TO INVOITABLE D, AG TABO	THE BLLOW.
MAX PIPE	ANNULAR	F	Т
OR CONDUIT	SPACE	RATING	RATING
DIAM IN.	IN	HR	OR
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+ WHEN COPPER PIPE IS USED, T RATING IS 0 HR. MINNESOTA MINING & MFG. CO.-TYPE CP-25 S/L, CP-25 N/S, CP-25 WB,

* BEARING THE UL CLASSIFICATION MARKING.

GYPSUM/STUD WALL FIRE STOPPING DETAIL



MAIN SERVICE ENTRANCE GROUNDING DETAIL

GENERAL NOTES (TYPICAL ALL SHEETS)

- REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR EXACT PLACEMENT OF LIGHT FIXTURES, SPEAKER AND F.A. DEVICES IN THE CEILING SYSTEM.
- REFER TO ARCHITECTURAL PLANS FOR DETAIL OF ALL CONDUIT THRU ROOF
- PENETRATIONS. ALL JUNCTION BOXES FOR RECEPTACLES SHALL BE EVENLY SPACED ALONG WALL
- INSTALL BLANK COVERPLATE ON ALL OPEN OR ABANDONED DEVICE BOXES. VERIFY COLOR WITH ARCHITECT.
- WIRING TO BE REMOVED BACK TO THE NEAREST DEVICE TO REMAIN. WIRING SHALL NOT
- BE TAKEN PAST THE FIRST JUNCTION BOX BEFORE THE PANELBOARD.
- ANY MATERIAL REMOVED THAT OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED. FROM PROJECT SITE AND DISPOSED OF BY THE CONTRACTOR.
- NEW CIRCUITRY SHOWN FOR NEW POWER AND LIGHTING IS DIAGRAMMATIC AND IS INTENDED TO SHOW WHICH DEVICES ARE TO BE GROUPED ON INDIVIDUAL CIRCUITS.
- PROVIDE UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY FOR EACH PANELBOARD WHICH CIRCUITS HAVE BEEN ADDED TO OR MODIFIED.

CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT

- SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW
- SUPPORT ALL LIGHT FIXTURES WITH A MINIMUM OF (4) 12 GA. HANGER WIRES TO
- CONNECT EXIT AND EMERGENCY LIGHTS TO HOT LEG, NOT SWITCH LEG. • DISCONNECTS FOR MECHANICAL EQUIPMENT ARE PROVIDED BY OTHERS. UNLESS
- NOTED OTHERWISE. CONTRACTOR SHALL FOLLOW THE FOLLOWING GUIDE LINES;
 - a. MAXIMUM OF 16A PER 20A/1P CIRCUIT BREAKER. b. WHERE ACCEPTABLE INSTALL SWITCHES UNDER COMMON FACE PLATE.
- c. CONTRACTOR SHALL INSTALL FIRE ALARM DEVICES THAT COMPLIES WITH APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE NFPA. UL. ADA. d. CONTRACTOR SHALL COMPLY WITH THE NEC OR ANY OTHER CODES HAVING
- ALIGN ALL WIRING DEVICES IN VERTICAL ALIGNMENT. IF ANY DEVICE(S) ARE FOUND NOT TO BE INSTALLED PER DETAIL CONTRACTOR SHALL RELOCATE AND PAY ALL ASSOCIATED
- COSTS ASSOCIATED WITH THE RELOCATION(S). MEANS OF EGRESS TO BE ILLUMINATED AT NOT LESS THAN 1 FOOTCANDLE AT THE

FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL IF NECESSARY ADDITIONAL

- EMERGENCY FIXTURES IF NECESSARY TO MEET THE REQUIRED READINGS. PROVIDE FIRE STOP ON ALL PIPING AT WALL PENETRATIONS PER LOCAL CODE REQUIREMENTS. METHOD OF FIRE STOP SHALL MEET WALL RATING. RE:
- ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED WALLS. PROVIDE FIRE CAP HOUSING FOR ALL FIXTURES THAT PENETRATE FIRE RATED CEILINGS.
- CONDUIT SHALL BE USED FOR CONDUCTORS WHERE REQUIRED BY N.E.C.
- DISTANCE OF NOT LESS THAN 24". CONTRACTOR SHALL CALCULATE VOLTAGE DROP AND SIZE WIRE ACCORDINGLY. PER

OUTLETS INSTALLED IN FIRE RATED ASSEMBLES SHALL BE SEPARATED BY A HORIZONTAL

PROVIDE 3'-0" CLEARANCE IN FRONT OF DISCONNECTS UNITS.

RATED ASSEMBLES.

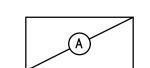
- CONTRACTOR SHALL PROVIDE FIRE RATED ENCLOSURES AROUND ALL ROUGH-IN BOXES, PANELS ETC. THAT ARE LOCATED IN FIRE RATED WALLS AND SHALL FIRE CAULK ALL OPENING IN RATED ASSEMBLES PER MANUFACTURERS RECOMMENDATIONS PER FIRE
- WHERE MORE THAN ONE SWITCH IS INDICATED ON DRAWINGS SIDE BY SIDE, CONTRACTOR SHALL INSTALL SWITCHES UNDER ONE COMMON FACE PLATE.
- UPON REQUEST FOR ELECTRONIC FILES, CONTRACTOR SHALL FILL OUT, SIGN AND RETURN ELECTRONIC MEDIA RELEASE FORM FROM ENGINEER AND PROVIDE PAYMENT FOR FEES STIPULATED ON ELECTRONIC MEDIA RELEASE FORM. UPON RECEIPT OF COMPLETED RELEASE FORM AND PAYMENT, ELECTRONIC FILES WILL BE RELEASED.
- CONTRACTOR SHALL PROVIDE HIS/HER OWN SUPPORTING OF CABLING FROM STRUCTURE ABOVE, I.E. TEMPERATURE CONTROL WIRING, SECURITY CONTROL WIRING, FIRE ALARM CONTROL WIRING, OR ANY OTHER WIRING CONTAINING VOLTAGE. CONTRACTOR SHALL NOT RUN PARALLEL WITH OR BE SUPPORTED BY ANY UTP, COAX OR VIDEO CABLING (CABLES INDICATED ON TECHNOLOGY DRAWINGS). IF CABLES ARE FOUND TO BE SUPPORTED WITH THESE CABLES, CONTRACTOR SHALL REMOVE CABLES. REROUTE AND RE-SUPPORT AT THERE OWN EXPENSE. IF UTP CABLES ARE DAMAGED WHILE EITHER INSTALLING OR REMOVING SUCH CABLES, THE CONTRACTOR(S) THAT DID SUCH DAMAGED SHALL COVER COST TO REPLACE CABLES AT THERE OWN EXPENSE.
- REFERENCE EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION REQUIREMENTS TO ALL EQUIPMENT LISTED ON THIS SHEET.
- FIRE ALARM CONTRACTOR TO MAKE FINAL CONNECTION TO FAN POWERED BOXES RELAY FOR AUTOMATIC SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE RECONNECTION OF ALL EXISTING
- ELECTRICAL LOADS, WHICH ARE TO REMAIN, TO NEW ELECTRICAL DISTRIBUTION SYSTEM.
- MULTI-WIRE BRANCH CIRCUITS SERVING FURNITURE SHALL HAVE DEDICATED NEUTRALS AND SHALL BE TERMINATED ON SEPARATE NEUTRAL BUSES WITHIN FURNITURE SYSTEM.
- WHERE THE DRAWINGS INDICATE DEDICATED CIRCUITRY WITH NO SHARED NEUTRALS, THE CONTRACTOR SHALL NOT INSTALL MULTI-WIRE BRANCH CIRCUITS WITH A COMMON
- DRAWINGS INDICATE DEDICATED CIRCUITS WITH NO SHARED NEUTRALS. IF CONTRACTOR HAS OWNER'S PERMISSION, MULTI-WIRE BRANCH CIRCUITS MAY SHARE A COMMON. NEUTRAL. WHEN THIS OCCURS, THE CONTRACTOR SHALL FURNISH AND INSTALL A MANUFACTURED BREAKER HANDLE-TIE (NOT COPPER WIRE, NAIL, ETC.) BETWEEN THE SHARED BREAKERS (MAXIMUM OF 3 SHARED PHASES PER NEUTRAL, CAN ONLY SHARE NEUTRAL BETWEEN 15 OR 20 AMP RATED BREAKERS) FOR SIMULTANEOUS BREAKER TRIP OF SINGLE PHASE LOADS, TO MEET NFPA, NEC REQUIREMENTS. NO EXCEPTIONS: DO NOT SHARE NEUTRAL WHERE OUTLETS INDICATED WITH A 'D' FOR DEDICATED CIRCUIT.

ELECTRICAL SYMBOLS

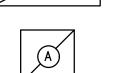
- BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR
- EACH HOMERUN; NOT SHOWN

RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER

- PANELBOARD CABINET, SURFACE MOUNTED
- RECEPTACLE, DUPLEX
- RECEPTACLE, DUPLEX ON EMERGENCY POWER
 - RECEPTACLE, QUADRAPLEX
 - OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION
 - SWITCH (# SUBSCRIPT AS INDICATED BELOW): 2 = DOUBLE POLE BLANK = SINGLE POLE 3 = THREE-WAY 4 = FOUR-WAY
 - D = DIMMER K = KEY OPERATED LV= LOW VOLTAGE P = WITH PILOT LIGHT RC= REMOTE CONTROL LM= LOW VOLTAGE MASTER PB= PUSH BUTTON STATION WP= WEATHER PROOF T = TIMER OPERATED Mo= OCCUPANCY SENSOR



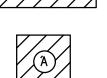
2x4 LIGHT FIXTURE, RECESSED LED, 610x1220mm (2'x4'); LETTER INDICATES TYPE.



2x2 LIGHT FIXTURE, RECESSED LED, 610x1220mm (2'x4'); LETTER INDICATES TYPE.



2x4 LIGHT FIXTURE, LED EMERGENCY; LETTER INDICATES TYPE.



2x2 LIGHT FIXTURE, LED EMERGENCY; LETTER INDICATES TYPE.

LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 305x1220mm (1'x4'); LETTER INDICATES TYPE.

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

ALARM, HORN/LIGHT, ONE ASSEMBLY

ALARM, LAMP LIGHT, SIGNAL LIGHT, STROBE

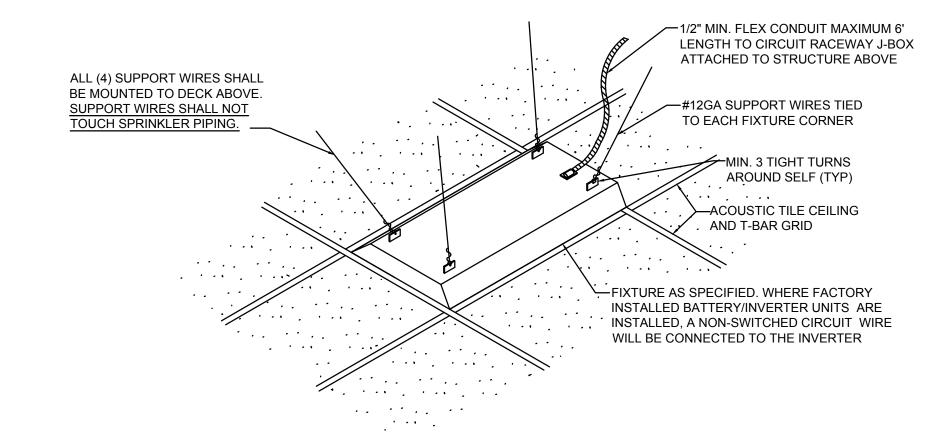
SPEAKER, CEILING MOUNTED, "X" INDICATES THE TYPE, PROVIDE SCHEDULE ON LEGEND

DETECTOR, HEAT; LETTER INDICATES AS FOLLOWS: R/T = COMBINATION F = FIXED TEMPERATURE RISE

R/C = RATE COMPENSATION R = RATE OF DETECTOR; LETTER INDICATES AS FOLLOWS:

BLANK = SMOKE DETECTOR H = HEAT SMOKE I = IONIZATION SMOKE P = PHOTOELECTRIC SMOKE

IH = IONIZATION AND HEAT SMOKE IP = IONIZATION AND PHOTOELECTRIC SMOKE PH = PHOTOELECTRIC AND HEAT SMOKE IPH = IONIZATION, PHOTOELECTRIC, AND HEAT



Description 95% Submittal 100% Submittal 8/16/16

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VA EASTERN KANSAS HEALTH CARE SYSTEM

Dwight D. Eisenhower VA Medical Center Leavenworth Colmery-O'Neil VA Medical Center Topeka





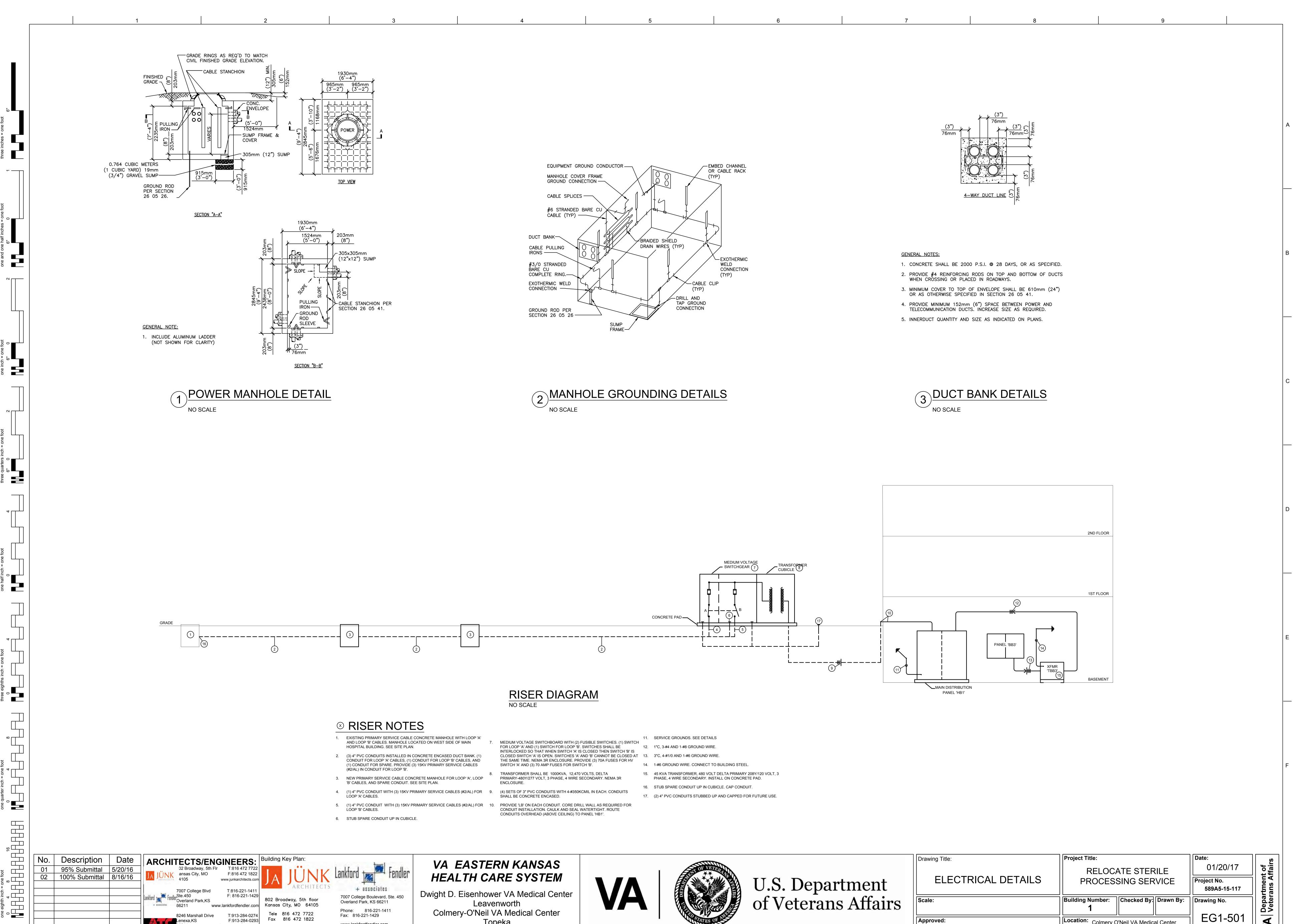
ELECTRICAL DETAILS	
ale:	В

Drawing Title:

RELOCATE STERILE PROCESSING SERVICE uilding Number: Checked By: Drawn By: Location: Colmery O'Neil VA Medical Center Approved 2200 Gage Blvd. ,Topeka,KS

Project Title:

01/20/17 589A5-15-117 Drawing No. EG1-500 Dwg. 34 Of 44



Topeka

Location: Colmery O'Neil VA Medical Center

2200 Gage Blvd. ,Topeka,KS

Dwg. 35 Of 44

Approved:

F:913-284-0293

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PANELBOARD HB1 SCHEDULE SERVICE: 480/277 VOLT, 3-PHASE, 4-WIRE RATING: 42000 A.I.C. LOCATION: MECH RM AMP FRAME: 1200 AMP MAINS: MCB / 1200 AMP MAIN BREAKER MOUNTING: SURFACE B014M WITH FEED THROUGH LUGS BRKR LOAD KVA NO. NO. CRT# DESCRIPTION P AMP A B C 3PH NO. NO. P AMP A B C 3PH CRT# DESCRIPTION 2 | 180 | 4 | WATER HEATER 1-DWH-1 3 BOILER 1-B1 6 9 CART WASHER 15 1-AHU-1 9.1 22 BOILER 1-B2 24 25 27 29 1-CAV-1 33 1-CAV-2 39 1-CAV-3 41 PANELBOARD HB1 SCHEDULE SECTION 2 SERVICE: 480/277 VOLT, 3-PHASE, 4-WIRE RATING: 42000 A.I.C. LOCATION: MECH RM AMP: AMP MOUNTING: SURFACE WITH FEED THROUGH LUGS LOAD KVA LOAD KVA P AMP A B C 3PH CRT# DESCRIPTION NO. CRT# DESCRIPTION P AMP A B C 3PH NO. NO. 44 46 TRSF 'TBB3' 2 48 49 SMALL STERILIZER PUMP 0.35 52 LARGE STERILIZER PUMP 53 54 55 LARGE STERILIZER PUMP 61 63 65 65 PROVISION 66 68 PROVISION 70 PROVISION 69 PROVISION 72 PROVISION 74 PROVISION 71 PROVISION 73 PROVISION 75 PROVISION 76 PROVISION 78 PROVISION
80 PROVISION 77 PROVISION
77 PROVISION
79 PROVISION
81 PROVISION
83 PROVISION 82 PROVISION 84 PROVISION +TOTAL: 3 | 1 | 2 | 345.35 TOTAL: 0
 3
 1
 2
 345.4

 KVA / PHASE TOTAL:
 3
 1
 2
 643.8
 NOTES: AMP / PHASE TOTAL: 269.0 261.7 265.4 TOTAL CONNECTED LOAD: 649.82 KVA TOTAL CONNECTED CURRENT: 781.61 AMPS LIGHTS @ 125%: 0.00 KVA REV: RECEPTACLES @ 0.00 KVA RECEPTACLES @ 0.00 KVA LARGEST MOTOR LOAD @ 125%: 21.75 KVA CONTINUOUS LOAD @ 125%: 4.50 KVA GENERAL NOTES: A CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR & OTHER AND NON-CONTINUOUS LOADS @ 100%: TOTAL DEMAND LOAD: 670.35 KVA CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS B PROVIDE MAIN CIRUIT BREAKER WITH BUILT IN GFCI PROTECTION. POWER FACTOR: TOTAL DEMAND CURRENT: 848.77 AMPS PANELBOARD EB1 SCHEDULE SERVICE: 208/120 VOLT, 3-PHASE, 4-WIRE RATING: 22000 A.I.C. AMP FRAME: 100 AMP LOCATION: MECH ROOM MOUNTING: SURFACE MAINS: MLO LOAD KVA LOAD KVA P AMP A B C 3PH CRT# DESCRIPTION CRT# DESCRIPTION P AMP A B C 3PH NO. NO. 1 REC-BIOMED SERVER
3 REC-BIOMED SERVER 2 REC-BIOMED SERVER
4 REC-BIOMED SERVER 0.8 6 REC-BIOMED SERVER 5 REC-BIOMED SERVER 7 REC-BIOMED SERVER 8 TL-REC-BIOMED 9 REC-BIOMED SERVER
11 REC-BIOMED SERVER
13 SPARE 12 TL-REC-BIOMED 17 SPARE 19 SPARE 21 SPARE 22 PROVISION 24 PROVISION 23 SPARE 25 PROVISION 27 PROVISION 29 PROVISION 26 PROVISION 28 PROVISION 30 PROVISION TOTAL: 1.6 1.6 1.6

 KVA / PHASE TOTAL:
 1.6
 1.6
 1.6
 0.0

 AMP / PHASE TOTAL:
 45.0
 32.5
 32.5

 NOTES: TOTAL CONNECTED LOAD: 13.20 KVA TOTAL CONNECTED CURRENT: 36.64 AMPS LIGHTS @ 125%: 0.00 KVA RECEPTACLES @ 10.00 KVA RECEPTACLES @ 1.60 KVA LARGEST MOTOR LOAD @ 0.00 KVA 125%: CONTINUOUS LOAD @ 125%: 0.00 KVA GENERAL NOTES: OTHER AND NON-CONTINUOUS LOADS @ 100%: A CONTRACTOR TO REFERENCE BRANCH CIRCUIT COPPER CONDUCTOR & 11.60 KVA TOTAL DEMAND LOAD: CONDUIT SIZING CHART FOR SIZING OF BRANCH CIRCUITS AND OR FEEDERS AT OR BELOW 100 AMPS POWER FACTOR: 0.95 % PF TOTAL DEMAND CURRENT: 33.89 AMPS

											6								
			NEW			PAN	ELBC	ARD	BB3	SCI	HEDULE								
			208/120 VOLT , 3 - PHASE , 4 - WIRE 200 AMP														22000 A MECH F		
		MAINS:	MCB / 150 AMP MAIN BREAKER WITH FEED THROUGH LUGS						MOUI	NTING:	SURFACE						B014M		
	NOTE		LOAD	BRKR			LOAD I				LOAD	BRKF			LOAD I			NOTE	
IO.	NO.	CRT#	DESCRIPTION	P	AMP	Α	В	С	3PH	CRT#	DESCRIPTION	P	AMP	A	В	С	3PH	NO.	N
		1	REC-STORAGE	1	20	0.7				2	REC-PREP/PACK	1	30	0.72					╁
			REC-PREP/PACK	1	20	0.7	0.5	I		4	REC-PREP/PACK	1	30	0.72	0.36				+
			REC-PREP/PACK	1	20	1	0.0	0.5		6	REC-PREP/PACK	1	30	1	0.00	0.36			T
			REC-PREP/PACK	1	20	0.5	1			8	REC-PREP/PACK	1	30	0.5	1				T
		9	REC-PREP/PACK	1	20		0.5			10	REC-GENERAL	1	20		0.9				T
			REC-PREP/PACK	1	20		•	0.5		12	REC-GENERAL	1	20		•	0.9			L
		13			l	1		1		14	REC-GENERAL	1	20	0.9		1			+
			STERALIZER CONTROLS	3	20		1	4		16	REC-GENERAL	1 1	20	ł	0.9	4.5			+
		17 19	SPARE	1	20		1	1		18 20	PASS THRU DRYER SPARE	1 1	20		ī	1.5			+
			SPARE	1	20			1		22	SPARE	1	20			1			+
			SPARE	1	20	1				24	SPARE	1	20	1					+
		25					1			26					1				T
		27	SPARE	3	30					28	SPARE	3	40						T
		29					_			30					-				Ι
		31						T		32						1			_
			WASHER/DRYER	3	40				9.6	34	SONIC CLEANER	3	60				10		┸
		35					1			36			_		ī				+
		37 39	 WASHER/DRYER		1,0			1	9.6	38 40	CART WASHER	3	50			Ī	11.3		-
		41	WASHER/DRIER	3	40				9.0	40	CART WASHER	3	30				11.3		╁
		1 71	NEW		<u> </u>	DAN	EI DO	V DD	DD2		HEDULE	SE	CTIO	NI 2					
	SE		208/120 VOLT, 3 - PHASE, 4 - WIRE AMP			1744	LLDO	71110				OL.	0110				22000 A MECH F		
	NOTE	1	LOAD	DDKD	`	I	LOADI	Λ/Λ	MOU	NTING:	SURFACE	BRKF	<u> </u>	ı	LOADI	Λ/Λ	B014M	NOTE	Т,
⊏\/ Ⅰ			DESCRIPTION	BRKR			LOAD I				LOAD		_		LOAD I			NOTE	
		I CDT#		1 0			1 🛛		ISDH	CDT#	I DESCRIPTION	ΙD	1 / 1 / 1 / 1				I 3DH I		I١
		CRT#	DESCRIPTION	P	AMP	Α	В	С	3PH	CRT#	DESCRIPTION	P	AMP	A	В	С	3PH	NO.	١
				1 1		0.9	В	С	3PH	CRT#		1		0.75	В	С	3PH	NO.	\ \
		43	REC-GENERAL HEAT TRACE		20 20		1.5	C	3PH		DOOR CONTROL 1-CP-1	1 1	20 20		0.2		3PH	NO.	N
		43	REC-GENERAL	1	20			0.5	3PH	44	DOOR CONTROL	1 1 1	20			2.5	3PH	NO.	N
REV IO.		43 45 47 49	REC-GENERAL HEAT TRACE TEMP CONTROL	1 1 1	20 20 20				3PH	44 46 48 50	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9	1 1 1	20 20 20 20		0.2		3PH	NO.	
		43 45 47 49 51	REC-GENERAL HEAT TRACE	1 1	20 20				3PH	44 46 48 50 52	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS	P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20	0.75			3PH	INO.	N
		43 45 47 49 51 53	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE	1 1 1 3	20 20 20 20	0.9			3PH	44 46 48 50 52 54	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1	20 20 20 20 20 20 20	0.75	0.2		3PH	NO.	
		43 45 47 49 51 53 55	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM	1 1 1	20 20 20 20 20		1.5		3PH	44 46 48 50 52 54 56	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE	1 1 1	20 20 20 20 20 20 20 20	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE	1 1 1 1 3	20 20 20 20	0.9			3PH	44 46 48 50 52 54	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1	20 20 20 20 20 20 20	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM	1 1 1 3	20 20 20 20 20 20 20	0.9	1.5	0.5	3PH	44 46 48 50 52 54 56 58	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20	0.9	1.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66 68 70	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66 68 70	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE PROVISION PROVISION PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION PROVISION PROVISION PROVISION	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION PROVISION PROVISION PROVISION PROVISION PROVISION	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION PROVISION PROVISION PROVISION	1 1 1 3 1 1 2	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	3PH	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		3PH	NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION PROVISION PROVISION PROVISION PROVISION PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.75	0.2	2.5		NO.	
	1 1	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION PROVISION PROVISION PROVISION PROVISION PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.9	0.5	0.5	19.2	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75	0.2		21.3 19.2	NO.	
0.	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 70 20	0.75 0.55 3.42 4.6 8.02	0.2 0.8 0.8 3.16 4.6 7.76	5.26 3.9 9.16	21.3	NO.	
0.	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION PROVISION PROVISION PROVISION PROVISION PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 70 20	0.75 0.55 3.42 4.6 8.02	0.2 0.8 0.8	2.5 5.26 3.9	21.3	NO.	
0.	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 70 70 70 70 70 70 70 70 70 70 70 70 70	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1	5.26 3.9 9.16 113.8	21.3	NO.	
0.	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1	5.26 3.9 9.16 113.8	21.3	NO.	
0.	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1	5.26 3.9 9.16 113.8	21.3		
D	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION RECEPTACLES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1 65.44 181.64 0.00 10.00	5.26 3.9 9.16 113.8 KVA AMPS KVA KVA	21.3		
O	NO.	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1 65.44 181.64 0.00 0.57	5.26 3.9 9.16 113.8 KVA AMPS KVA KVA KVA	21.3		
O	NO. 1 1 1 1 1 REV:	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION LIGHTS RECEPTACLES RECEPTACLES RECEPTACLES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1 65.44 181.64 0.00 10.00 0.57 0.00	5.26 3.9 9.16 113.8 KVA AMPS KVA KVA KVA	21.3		
O	NO. 1 1 1 1 1 REV:	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION	1 1 1 3 1 1 2 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	1 0.4		44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION LIGHTS RECEPTACLES RECEPTACLES LARGEST MOTOR LOAD CONTINUOUS LOAD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1 65.44 181.64 0.00 10.00 0.57 0.00 6.88	5.26 3.9 9.16 113.8 KVA AMPS KVA KVA KVA KVA	21.3		
O	NO. 1 1 1 1 1 REV:	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	0.5	19.2	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION OTOTAL CONTINUOUS LIGHTS RECEPTACLES RECEPTACLES LARGEST MOTOR LOAD CONTINUOUS LOADS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1 65.44 181.64 0.00 0.57 0.00 6.88 4.05	5.26 3.9 9.16 113.8 KVA KVA KVA KVA KVA KVA	21.3		
0.	NO. 1 1 1 1 1 REV:	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE SPARE PROVISION	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	0.5	19.2	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION OTOTAL CONTINUOUS LOADS OTHER AND NON-CONTINUOUS LOADS TOTAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55 3.42 4.6 8.02 104.3	3.16 4.6 7.76 102.1 65.44 181.64 0.00 10.00 0.57 0.00 6.88 4.05 23.37	5.26 3.9 9.16 113.8 KVA KVA KVA KVA KVA KVA KVA KVA	21.3		
O	NO. 1 1 1 1 1 REV:	43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83	REC-GENERAL HEAT TRACE TEMP CONTROL SPARE R/O SYSTEM R/O SYSTEM R/O SYSTEM PUMP 1-P1 CHEMICAL FEED SPARE SPARE SPARE PROVISION	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20	0.9	0.5	0.5	19.2	44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82	DOOR CONTROL 1-CP-1 1-WS-1 AND 1-WS-2 1-CAV-1 THRU 1-CAV-9 MOTORIZED DAMPERS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE PROVISION OTOTAL CONTINUOUS LOADS OTHER AND NON-CONTINUOUS LOADS TOTAL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.75 0.55	3.16 4.6 7.76 102.1 65.44 181.64 0.00 10.00 0.57 0.00 6.88 4.05 23.37 0.95	5.26 3.9 9.16 113.8 KVA KVA KVA KVA KVA KVA	21.3 19.2 40.5		

			NEW			PAN	ELBC	ARD	UPS	S-B1	SCHEDULE								
	SE	RVICE:	208/120 VOLT, 3-PHASE, 4- WIRE												R	ATING:	22000 /	A.I.C.	
	AMP F	RAME:	100 AMP												LOC	ATION:	MECH	ROOM	
	1	MAINS:	MCB / 100 AMP MAIN BREAKER						MOU	NTING:	SURFACE						B43M		
ΞV	NOTE		LOAD	BRKF	₹		LOAD I	KVA			LOAD	BRKF	_		LOAD k	(VA		NOTE	RE
Ο.	NO.	CRT#	DESCRIPTION	Р	AMP	Α	В	С	3PH	CRT#	DESCRIPTION	Р	AMP	Α	В	С	3PH	NO.	NO
		1	REC-BIOMED SERVER	1	20	0.8				2	REC-BIOMED SERVER	1	20	0.8					<u> </u>
		3	REC-BIOMED SERVER	1	20		0.8	1		4	REC-BIOMED SERVER	1 1	20		0.8				
		5	REC-BIOMED SERVER	1	20			0.8		6	REC-BIOMED SERVER	1	20			0.8			
		7	REC-BIOMED SERVER	1	20	0.8	1			8	TL-REC-BIOMED	2	30	1.5	1				
		9	REC-BIOMED SERVER	1	20		0.8	Ī		10					1.5				
		11	REC-BIOMED SERVER	1	20			0.8		12	TL-REC-BIOMED	2	30			1.5			
		13	SPARE	1	20		1			14				1.5					
		15	SPARE	1	20]		16	SPARE	2	30						
		17	SPARE	1	20					18									
		19	SPARE	1	30			_		20	PROVISION								
		21	SPARE	1	20					22	PROVISION								
		23	SPARE	1	20		-			24	PROVISION				=				
		25	PROVISION					-		26	PROVISION					•			
		27	PROVISION							28	PROVISION								
		29	PROVISION				1			30	PROVISION				ì				
				7	OTAL:	1.6	1.6	1.6	0			-	TOTAL:	3.8	2.3	2.3	0.0		
					OTAL.	1.0	1.0	1.0	U	J			IOTAL.	1.6	1.6	1.6	0.0	ł	
	NOTES										KVA / F	HASE 1	TOTAL:	5.4	3.9	3.9	0.0	1	
		•									AMP / F	_		45.0	32.5	32.5	0.0	1	
											TOTAL CONN.	COTED	1 O A D.		12.20	121.74			
											TOTAL CONN TOTAL CONNECTI					KVA AMPS			
											LIGHTS @		125%:			KVA			
	REV:										RECEPTACLES @	•	100%:		10.00				
											RECEPTACLES @		50%			KVA			
											LARGEST MOTOR LOAD @		125%:		0.00	KVA			
	GENERA	L NOTES:	:								CONTINUOUS LOAD @		125%:			KVA			
	Α	CONTRA	CTOR TO REFERENCE BRANCH CIRCUIT COPPER	CONDUC	TOR &						OTHER AND NON-CONTINUOUS LOADS @		100%:			KVA			
		CONDUI	T SIZING CHART FOR SIZING OF BRANCH CIRCUIT	S AND OF	RFEEDE	RS AT OR	BELOW	100 AMPS			TOTAL DE				11.60				
												VER FA	-			% PF			
											TOTAL DEMAN	D CUR	RENT:		33.89	AMPS			

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZING CHART*

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE WIRE + GND. CONDUIT SIZE
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

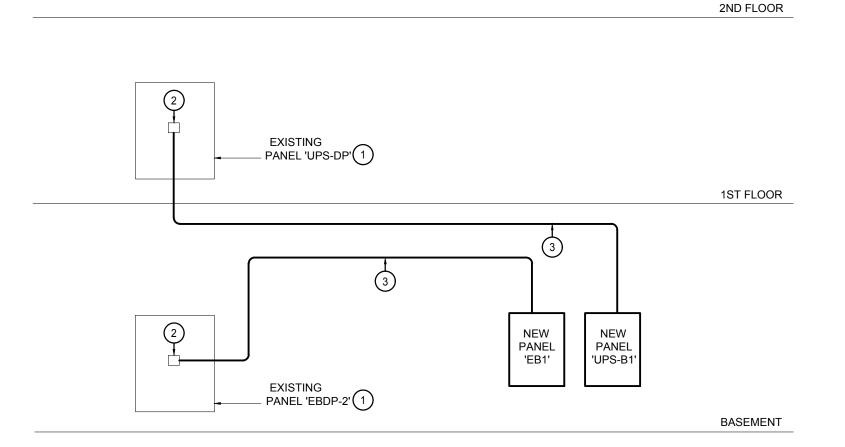
- * = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- * = UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BRANCH CIRCUITS AND FEEDERS TO BE PROVIDED WITH A NEUTRAL WIRE. * = ALL CONDUCTORS SIZED ON THE POWER RISER DIAGRAM OR IN BRANCH CIRCUIT CONDUCTOR TABLE ARE BASED ON 3 CURRENT
- CARRYING CONDUCTORS IN A RACEWAY OR CABLE. CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH THE NEC IF 4 OR MORE CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE.

YPE	MANUFACTURER	LAMPS	WATTS	DESCRIPTION	NOTES
Α	COLUMBIA LTG	4,818 LUMENS/	VOLTS	2x4 RECESSED LED TROFFER, PERFORATED CENTER BASKET, METAL PERF WITH OVERLAY.	
А	LSTE-24-35ML-G-MPO-E-U	35K/LED	50	MEDIUM LUMEN OUTPUT. FIXED OUTPUT DRIVER. BAKED WHITE ENAMEL FINISH	
	OR EQUAL WILLIAMS, DAY-BRITE		120		
В	NEW STAR LTG	LED/35K		2x4 SURFACE MOUNTED LED CLEAN ROOM FIXTURE, ALUMINUM HOUSING, ALUMINUM OVERLAP FRAME,	
	SCS-24-HA-OA/IE-L3-35-1-B-UN		100	EXTRUDED ALUMINUM INSERT IP65.125" PRISMATIC POLYCARBINATED LENS, EXTRUDED SILICONE	
	OR EGUAL FAIL-DAFE, LC DOANE		120	GASKETS, WHITE ANTIMICROBAL POWDER COAT FINISH.	
С	NEW STAR LTG	LED/35K		SIMILAR TO TYPE 'B' EXCEPT FIXTURE IS 1x4	
	SCS-14-HA-OA/1E-L2-35-1-B-UN OR EQUAL WILLIAMS, DAY-BRITE		50 		
	OR EQUAL WILLIAMS, DAT-BRITE		120		
D	COLUMBIA LTG	5,000 LUMEN/		1x4 SURFACE MOUNTED LED FIXTURE, .125 THICK ACRYLIC LENS, MEDIUM LUMENS,	
	LCL-4-35ML-E-U-PAT	35K/LED	48	FIXED OUTPUT DRIVER, BAKED WHITE ENAMEL FINISH.	
	OR EQUAL WILLIAMS, DAY-BRITE		120		
Е	COLUMBIA LTG	3,395 LUMEN/		SIMILAR TO TYPE 'A' FIXTURE, EXCEPT FIXTURE IS 2x2.	
	LSTE-22-35ML-G-MPO-E-U	35K/LED	40		
	OR EQUAL WILLIAMS, DAY-BRITE		120		
Х	EXTRONIX	LED		LED EXIST SIGN, RED LETERS, WHITE HI-TEMP THERMOPLATIC HOUSING, ARROW(S) AS INDICATED,	
	#VEX-U-BP-AC-WH OR EQUAL SURE-LITES, CHLORIDE		3 120	LESS BATTERY.	

SPECIFIC NOTES:

SUBSTITUTION NOTES THE LIGHTING DESIGN FOR THIS PROJECT IS BASED UPON THE MANUFACTURERS SPECIFIED. IF AN ADDITIONAL SUBSTITUTION IS DESIRED BY THE

- CONTRACTOR, A SUBSTITUTION REQUEST SUBMITTAL MUST BE PROVIDED AS FOLLOWS: S1. SUBSTITUTION REQUEST MUST BE RECEIVED BY THE ENGINEER IN WRITING 10 DAYS PRIOR TO BID. FAILURE TO SUBMIT CONSTITUTES A GUARANTEE TO SUPPLY THE SPECIFIED FIXTURES.
- S2. INFORMATION IS TO BE SUPPLIED COMPARING PHOTOMETRY. (WITH FLOOR PLANS INDICATING POINT BY POINT CALCULATIONS) DIMENSIONS, MATERIAL COMPOSITION, FINISH, VISUAL APPEARANCE AS WELL AS THE "CONTRACTOR NET" PRICING. SAMPLES ARE
- TO BE PROVIDED UPON REQUEST. S3. GREAT CARE, TIME AND EXPENSE HAVE BEEN USED TO PROVIDE OUR CLIENT WITH THE LIGHTING AND CONTROLS SYSTEM.
- THEREFORE, FOR EACH AND EVERY TYPE OF FIXTURE OFFERED AS AN UNSOLICITED ALTERNATE, A \$500.00 FEE WILL BE CHARGED TO THE CONTRACTOR FOR REVIEW OF THE ALTERNATE FIXTURE. THIS CHARGE IS IN NO WAY A GUARANTEE OF APPROVAL, BUT IS SOLELY TO COMPENSATE THE ENGINEER FOR TIME SPENT VALIDATING EQUALITY AND COMPATIBILITY WITH THE PROJECT REQUIREMENTS. THIS REIMBURSEMENT MUST BE RECEIVED BY THE ENGINEER PRIOR TO ANY REVIEW COMMENCING.
- S4. PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED. S5. MANUFACTURER'S REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LOT PRICING FOR SPECIFIED LIGHTING FIXTURES. S6. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT
- IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MINI-LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY.
- GENERAL NOTE: G1. ELECTRICAL CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ANY LIGHT FIXTURES. G2. ELECTRICAL CONTRACTOR SHALL COORDINATE DIMMING DRIVERS/BALLASTS WITH DIMMING SWITCHES/SYSTEMS AND SHALL INCLUDE ALL REQUIRED CONTROL WIRING.



PARTIAL EM/UPS RISER DIAGRAM NO SCALE

® RISER NOTES

- 1. PANEL IS RATED 400A, 120/208V, 3φ, 4W. PANEL IS MANUFACTURED BY SQUARE D.
- 2. PROVIDE/INSTALL (1) NEW 100A/3P CIRCUIT BREAKER IN EACH PANEL.
- 3. 1 1/4"C, 4-#3 AND 1-#8 GROUND WIRE.



VA EASTERN KANSAS HEALTH CARE SYSTEM

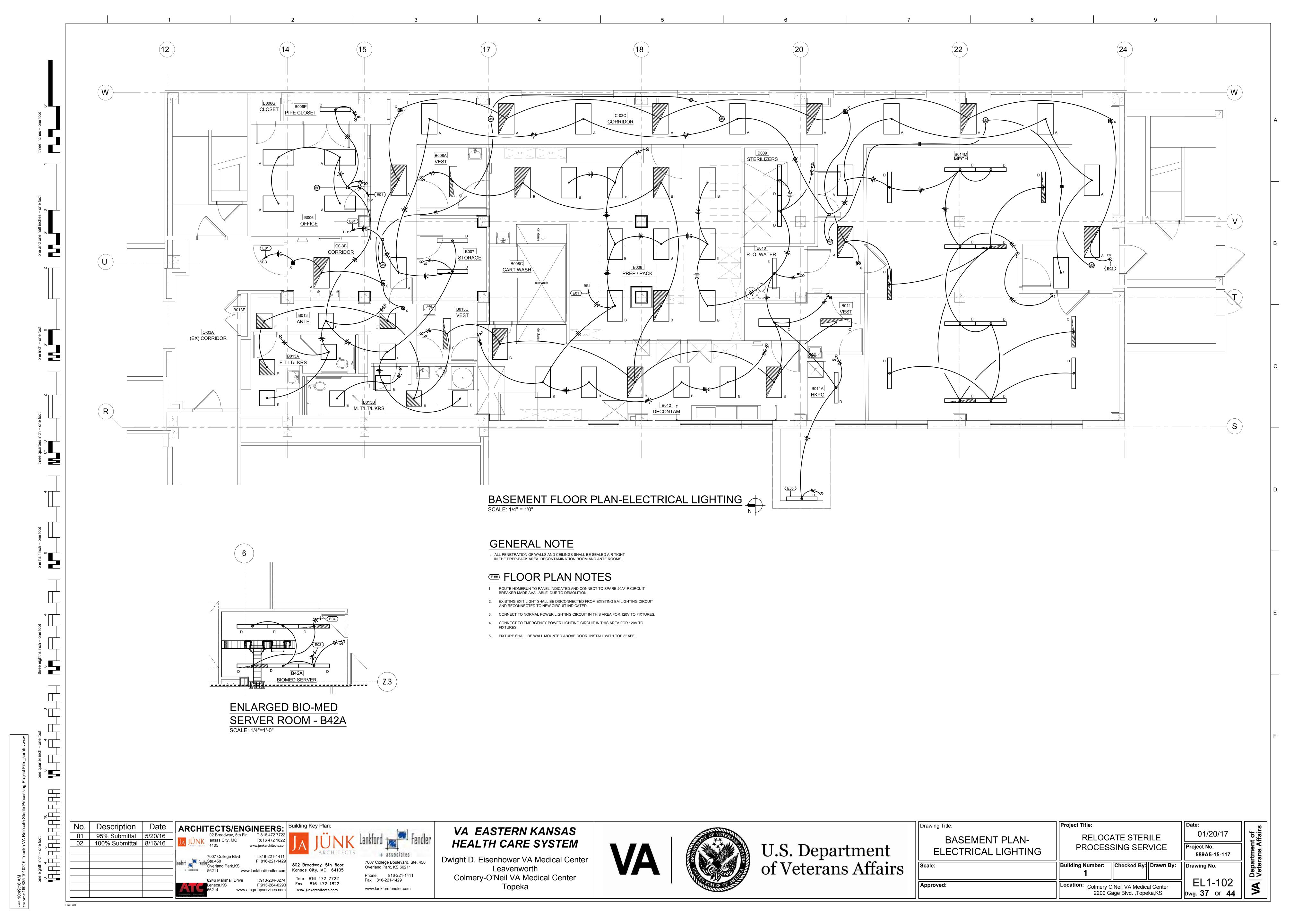
Dwight D. Eisenhower VA Medical Center Leavenworth Colmery-O'Neil VA Medical Center Topeka

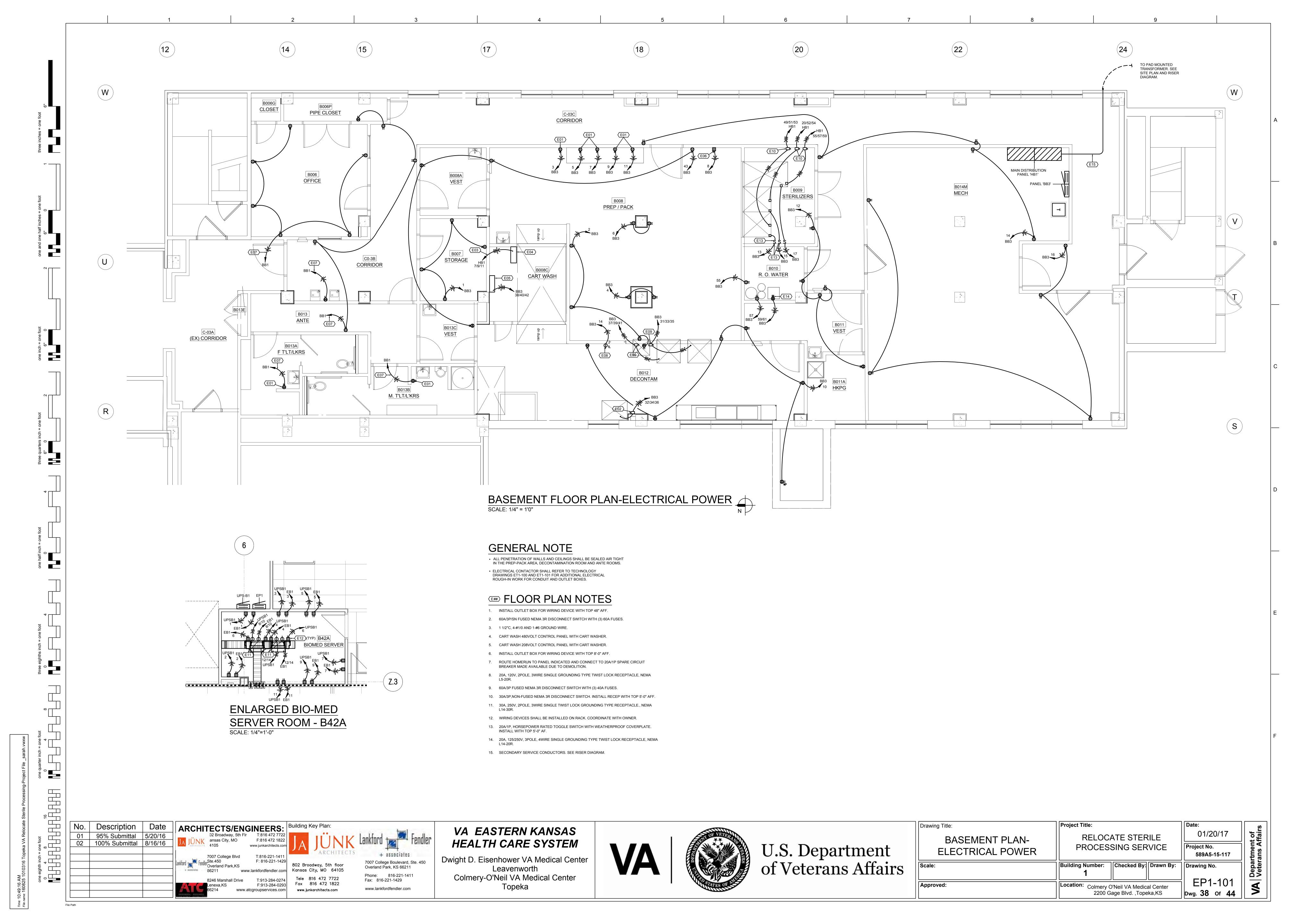


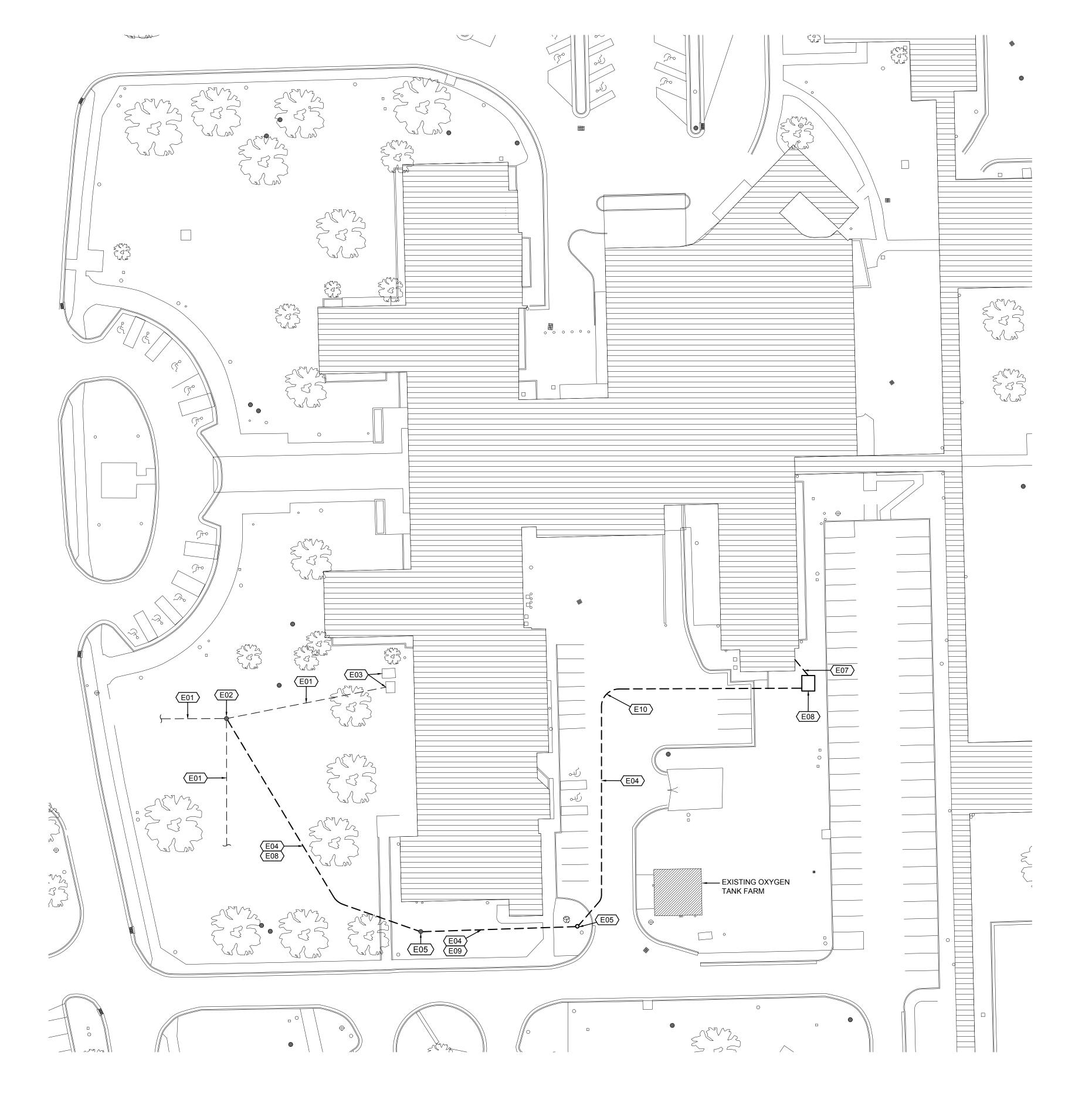
U.S. Department of Veterans Affair	S
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Б · ти	Drainot Title			Date:	
Drawing Title:	Project Title: RELOCATE STERILE PROCESSING SERVICE			01/20/17	
ELECTRICAL SCHEDULES				Project No. 589A5-15-117	
Scale:	Building Number:	Checked By:	Drawn By:	Drawing No.	
Approved:	Location: Colmery O'Neil VA Medical Center 2200 Gage Blvd. ,Topeka,KS			EG1-600 Dwg. 36 Of 44	

wg. **36** Of **44**







SITE PLAN-ELECTRICAL N SCALE: 1"= 30'

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VA EASTERN KANSAS HEALTH CARE SYSTEM

Dwight D. Eisenhower VA Medical Center Leavenworth
Colmery-O'Neil VA Medical Center Topeka





Drawing Title:	Project Title:		Date:
	RELOCA	01/20/17	
SITE PLAN-ELECTRICAL	PROCES	Project No. 589A5-15-117	
Scale:	Building Number:	Checked By: Drawn By:	Drawing No.
Approved:	Location: Colmery C 2200 G	ES1-101 Dwg. 39 Of 4	

FLOOR PLAN NOTES

1. EXISTING CONCRETE ENCASED DUCT BANK WITH PRIMARY SERVICE CABLES FOR PRIMARY LOOP 'A' AND PRIMARY LOOP 'B' TO REMAIN.

2. EXISTING PRIMARY ELECTRICAL SERVICE MANHOLE TO REMAIN.

3. EXISTING HV SWITCH AND TRANSFORMER TO REMAIN.

4. NEW PRIMARY SERVICE CONCRETE ENCASED DUCT BANK WITH (3) 4" PVC CONDUITS (1) CONDUIT FOR PRIMARY LOOP 'A' HV CONDUCTORS, (1) CONDUIT FOR PRIMARY LOOP 'B' HV CONDUCTORS, AND (1) CONDUIT IS SPARE. SEE DUCT BANK DETAIL. DUCT BANK SHALL BE INSTALLED WITH TOP MINIMUM OF 24" BELOW FINISH GRADE.

5. NEW PRIMARY ELECTRICAL SERVICE MANHOLE. SEE DETAIL.

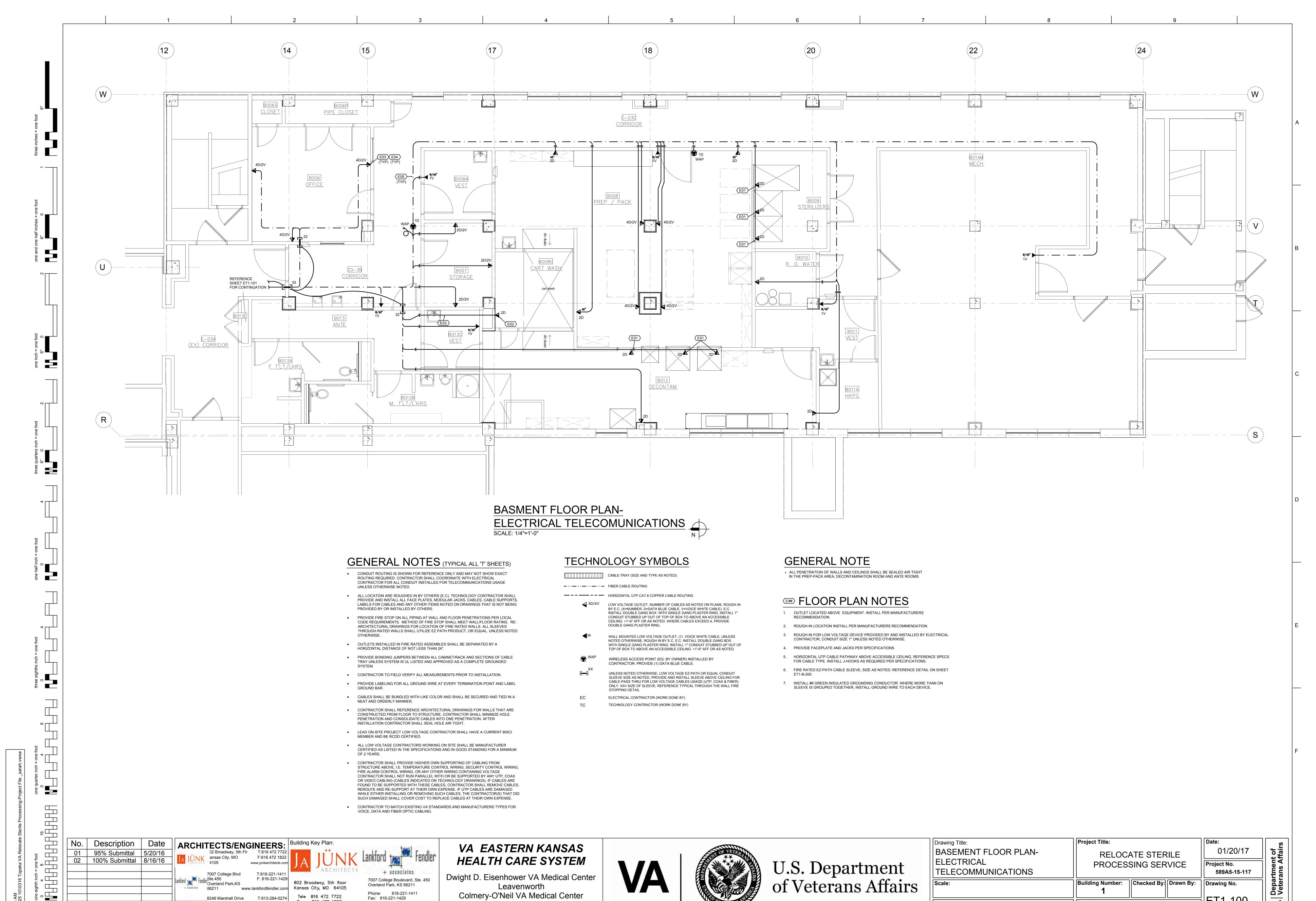
6. NEW HV SWITCH FOR PRIMARY LOOPS 'A' AND 'B' WITH NEW 1000 KVA, 12470 VOLT DELTA PRIMARY. TRANSFORMER WITH 480Y/277 VOLT, 3 PHASE, 4 WIRE SECONDARY. INSTALL ON CONCRETE PAD.

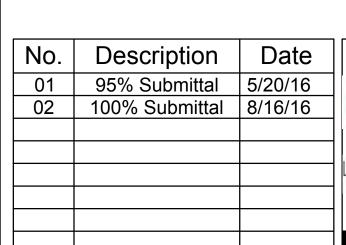
7. SECONDARY SERVICE CONDUCTORS TO PANEL 'HB1'. SEE RISER DIAGRAM.

8. SPLICE NEW HV CONDUCTORS TO EXISTING HV CONDUCTORS FOR PRIMARY LOOPS 'A' AND 'B'. COORDINATE WITH COR BEFORE ANY SERVICE SHUT DOWN FOR SPLICING OF HV CONDUCTORS.

9. THE PATH OF THE NEW DUCT BANK CAN BE MODIFIED MINIMALLY BY THE CONTRACTOR TO AVOID TREE "DRIP LINES".

10. PROVIDE 48" SWEEPING RADIUS ELBOWS.









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VA EASTERN KANSAS HEALTH CARE SYSTEM

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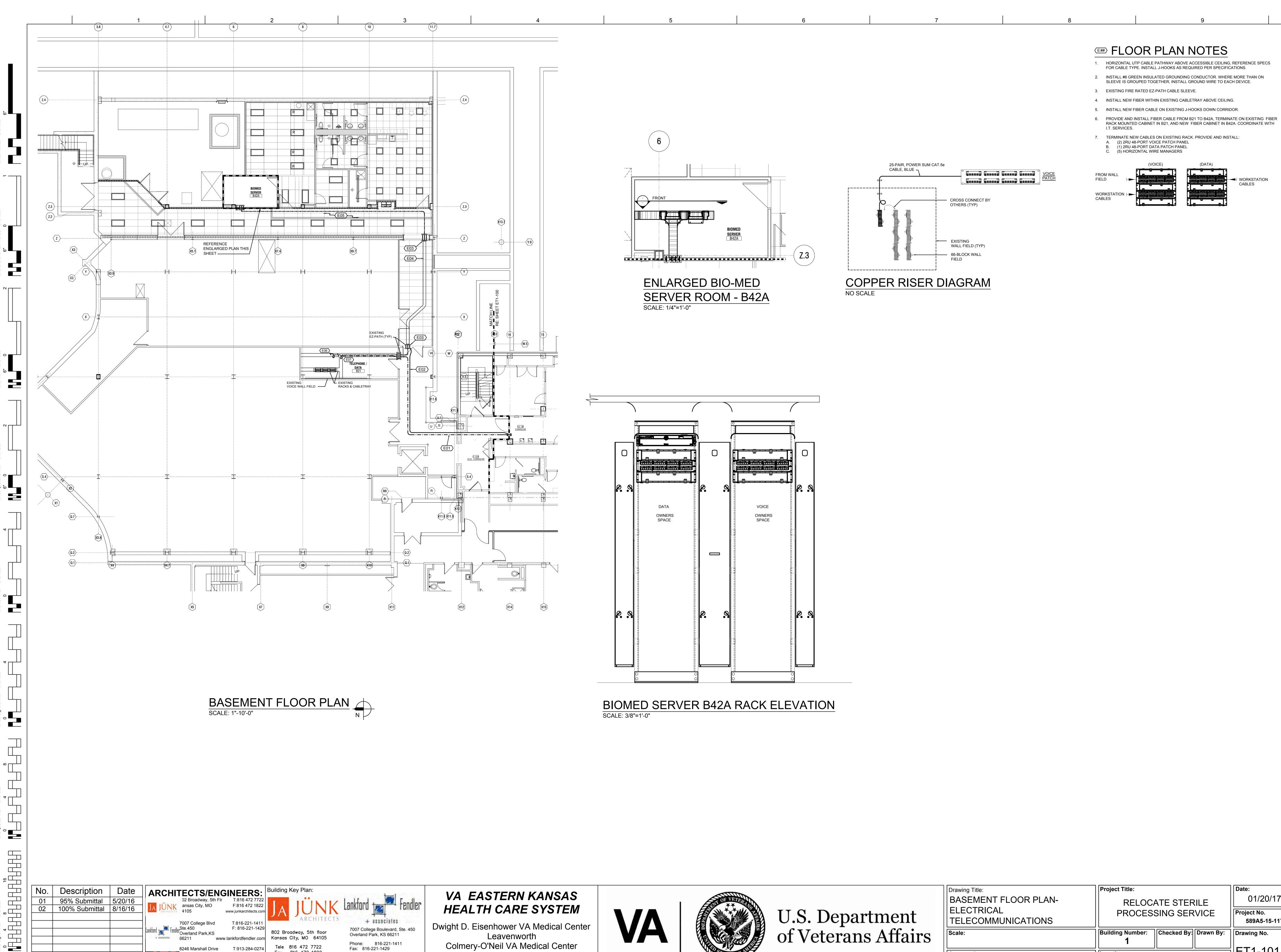


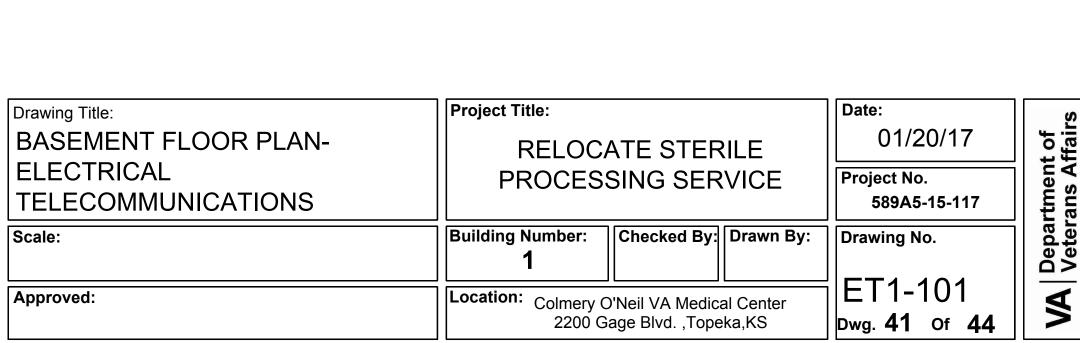
U.S. Department of Veterans Affairs

Drawing Title:	Project Title:			
BASEMENT FLOOR PLAN- ELECTRICAL TELECOMMUNICATIONS	RELOCATE STERILE PROCESSING SERVICE			
Scale:	Building Number: 1	Checked By:	Drawn By:	
Approved:	Location: Colmery O'Neil VA Medical Center			

2200 Gage Blvd. ,Topeka,KS

589A5-15-117 Drawing No.





₩ WORKSTATION

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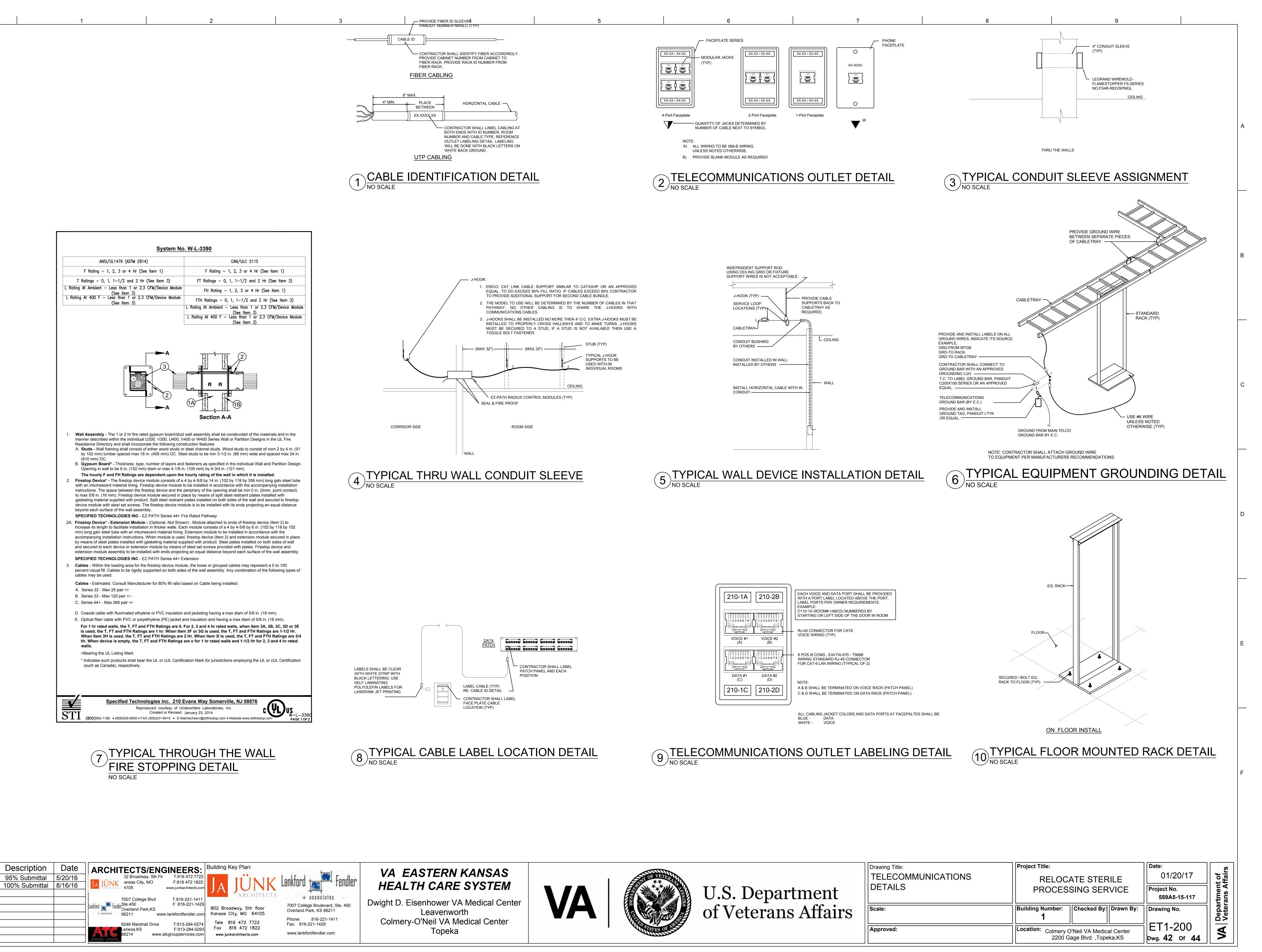
www.junkarchitects.com

Description

95% Submittal 5/20/16 100% Submittal 8/16/16

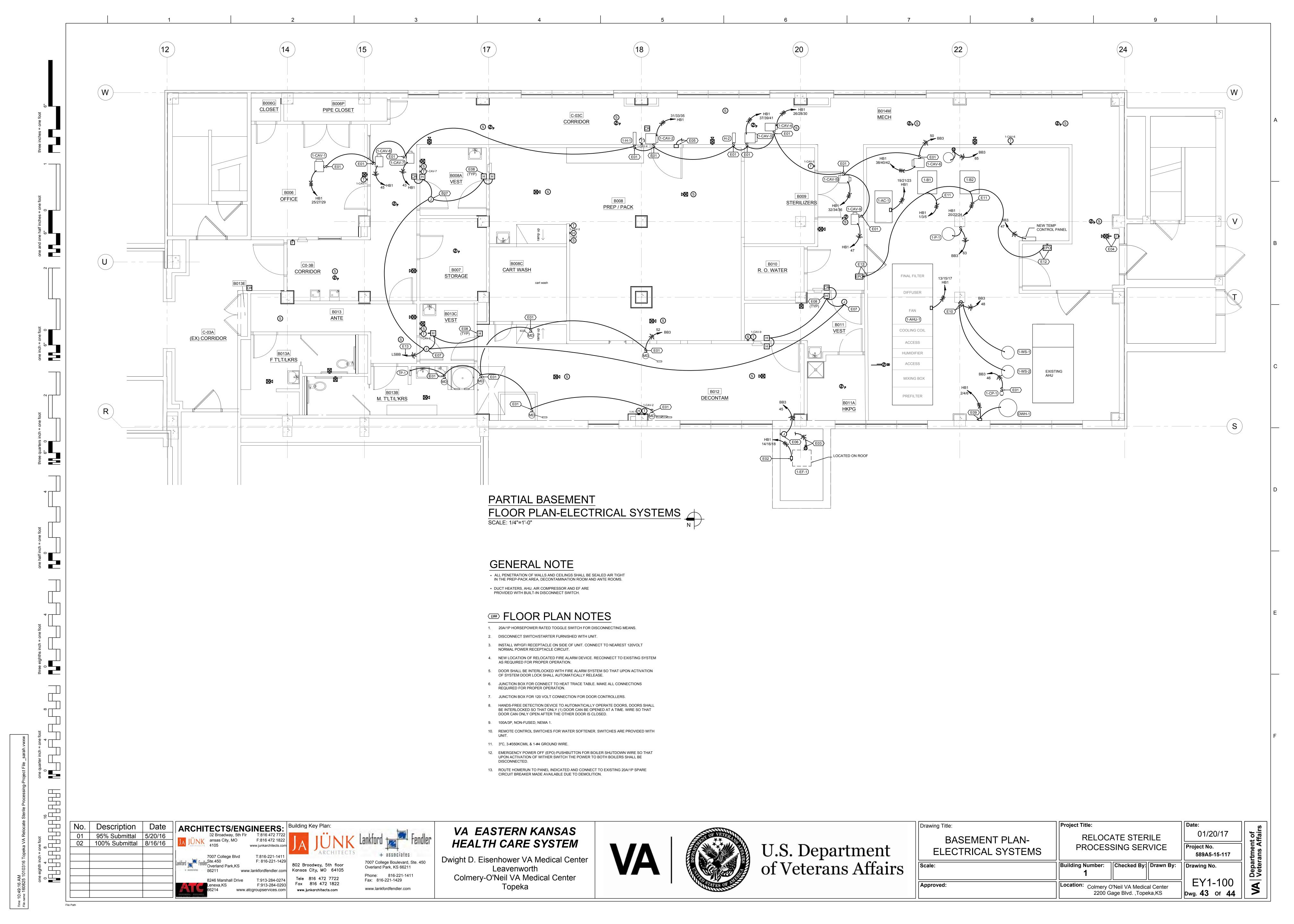


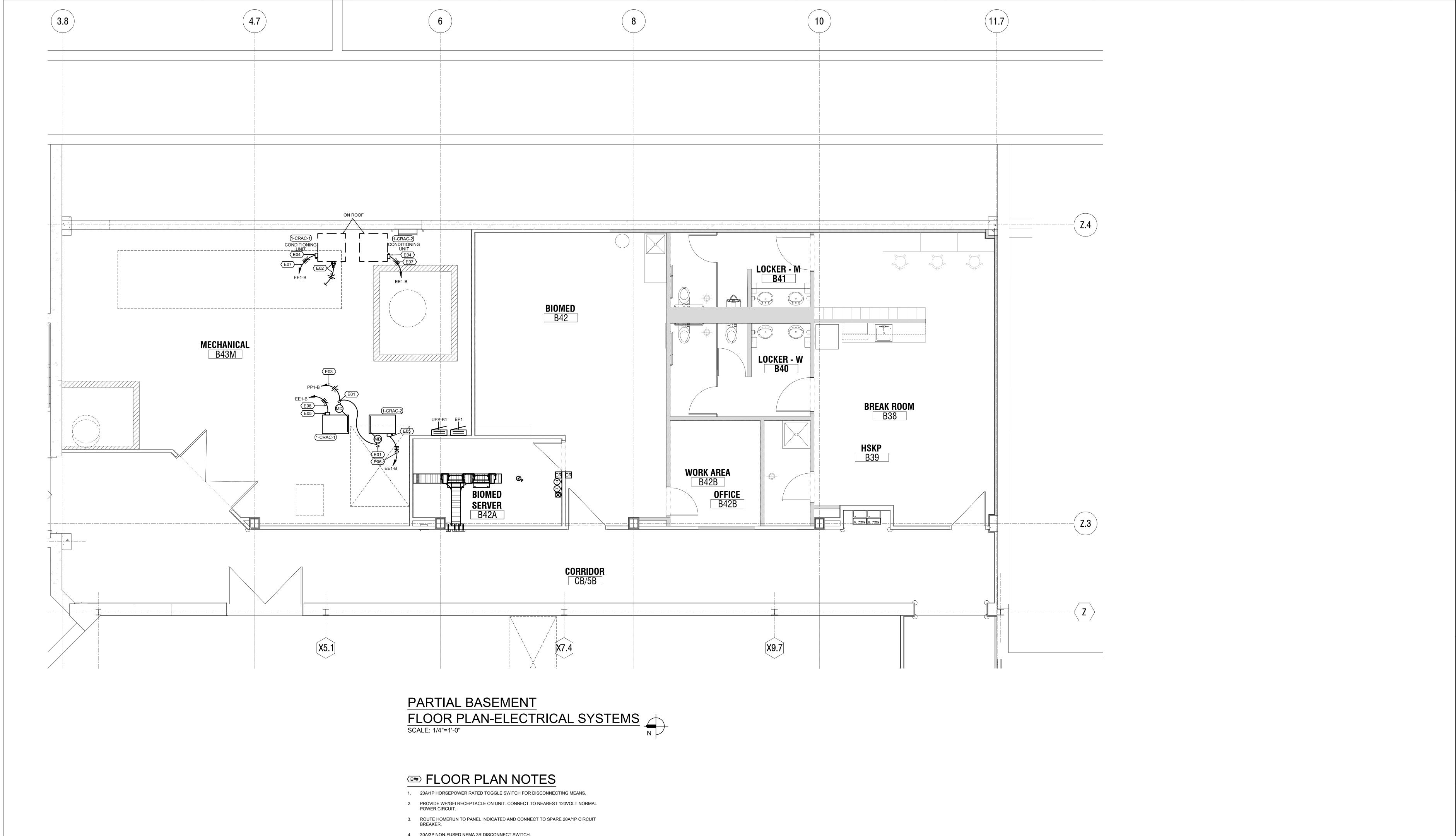




Description

95% Submittal





- 4. 30A/3P NON-FUSED NEMA 3R DISCONNECT SWITCH.
- 5. DISCONNECT SWITCH FURNISHED WITH UNIT.
- 6. ROUTE HOMERUN TO PANEL INDICATED AND PROVIDE/INSTALL (1) NEW 90A/3P CIRCUIT BREAKER IN EXISTING SPACE FOR EACH HOMERUN INDICATED. ONLY (1) OF THE UNITS CAN RUN AT A TIME.
- 7. ROUTE HOMERUN TO PANEL INDICATED AND PROVIDE/INSTALL (1) NEW 15A/3P CIRCUIT BREAKER IN EXISTING SPACE FOR EACH HOMERUN INDICATED. ONLY (1) OF THE UNITS

No.	Description	Date	ARCHITECTS/ENGINEERS: Building Key Plan:
01	95% Submittal	5/20/16	D2 Broadway, 5th Flr T:816 472 7722
02	100% Submittal	8/16/16	ansas City, MO F:816 472 1822 4105 www.junkarchitects.com
			ARCHITECTS + associates
			7007 College Blvd T:816-221-1411
			Overland Park, KS 802 Broadway, 5th floor + associates 66211 www.lankfordfendler.com Kansas City, MO 64105
			Tolo 916 472 7722 Phone: 816-221-1411
			8246 Marshall Drive T:913-284-0274 Fax: 816-221-1429 Fax: 816-221-1429 Fax: 816-221-1429
			66214 www.atcgroupservices.com www.junkarchitects.com www.lankfordfendler.com

VA EASTERN KANSAS HEALTH CARE SYSTEM

Dwight D. Eisenhower VA Medical Center
Leavenworth
Colmery-O'Neil VA Medical Center
Topeka



wing Title:	Project Title:			Date:
BASEMENT PLAN-	RELOCATE STERILE			01/20/17
ELECTRICAL SYSTEMS	PROCESS	Project No. 589A5-15-117		
ale:	Building Number:	Checked By:	Drawn By:	Drawing No.
	1 1	LDR	DMB	
proved:	Location: Colmery O'Neil VA Medical Center 2200 Gage Blvd. ,Topeka,KS			EY1-101 Dwg. 44 of 44