CP252301
Capital Region Medical Center

Switchgear Replacement

1125 Madison Street
Jefferson City, MO 65101

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

DRAWING INDEX	
SHEET NUMBER	SHEET NAME
C-001	COVER SHEET
AD-101	ARCHITECTURAL DEMOLITION PLAN - HOSPITAL BASEMENT
AD-102	ARCHITECTURAL DEMOLITION RCP - BASEMENT FLOOR
A-011	ARCHITECTURAL LIFE SAFETY PLAN - HOSPITAL BASEMENT
A-012	ARCHITECTURAL UL ASSEMBLIES - PENETRATIONS
A-031	ARCHITECTURAL DOORS AND FRAMES
A-040	ARCHITECTURAL SITE PLAN
A-051.1	ARCHITECTURAL PROPOSED FLOOR PLAN - HOSPITAL BASEMENT
A-051.2	ARCHITECTURAL ABOVE CEILING UPGRADES
A-051.3	ARCHITECTURAL ABOVE CEILING UPGRADES
A-150.1	ARCHITECTURAL PROPOSED RCP - HOSPITAL BASEMENT
C-101	CIVIL EXISTING SITE CONDITION
C-102	CIVIL SITE DEMOLITION PLAN
C-103	CIVIL SITE UTILITY PLAN
C-104	CIVIL SITE PLAN
C-105	CIVIL PHASING PLAN
C-106	CIVIL SITE GRADING PLAN
M-001	MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
M-002	MECHANICAL DETAILS
MD-101	MECHANICAL BASEMENT PLAN - DEMO
MD-201	MECHANICAL BASEMENT PIPING PLAN - DEMO
M-101	MECHANICAL BASEMENT PLAN - RENO
M-201	MECHANICAL BASEMENT PIPING PLAN - RENO
E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
E-002	ELECTRICAL ONE-LINE DIAGRAM - DEMO
E-003	ELECTRICAL ONE-LINE DIAGRAM - RENO
E-004	ELECTRICAL SITE PLAN
E-005	ELECTRICAL PHASING SEQUENCES
E-006	ELECTRICAL DETAILS
E-007	ELECTRICAL PANEL SCHEDULES
E-008	ELECTRICAL EXISTING PANEL SCHEDULES
E-009	ELECTRICAL EXISTING PANEL SCHEDULES
E-010	ELECTRICAL EXISTING PANEL SCHEDULES
E-011	ELECTRICAL EXISTING PANEL SCHEDULES
E-012	ELECTRICAL EXISTING PANEL SCHEDULES
E-013	ELECTRICAL EXISTING PANEL SCHEDULES
E-014	ELECTRICAL EXISTING PANEL SCHEDULES
E-015	ELECTRICAL EXISTING PANEL SCHEDULES
E-016	ELECTRICAL EXISTING PANEL SCHEDULES
E-017	ELECTRICAL EXISTING PANEL SCHEDULES
E-018	ELECTRICAL EXISTING PANEL SCHEDULES
E-019	ELECTRICAL EXISTING PANEL SCHEDULES
ED-101	ELECTRICAL BASEMENT LIGHTING PLAN - DEMO
ED-201	ELECTRICAL BASEMENT EQUIPMENT PLAN - DEMO
E-101	ELECTRICAL BASEMENT LIGHTING PLAN - RENO
E-201	ELECTRICAL BASEMENT EQUIPMENT PLAN - RENO
P-001	PLUMBING SYMBOLS, ABBREVIATIONS & GENERAL NOTES
PD-101	PLUMBING BASEMENT PLAN - DEMO
P-101	PLUMBING BASEMENT PLAN - RENO
FP-001	FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES
FP-101	FIRE PROTECTION PLAN

BID DRAWINGS:

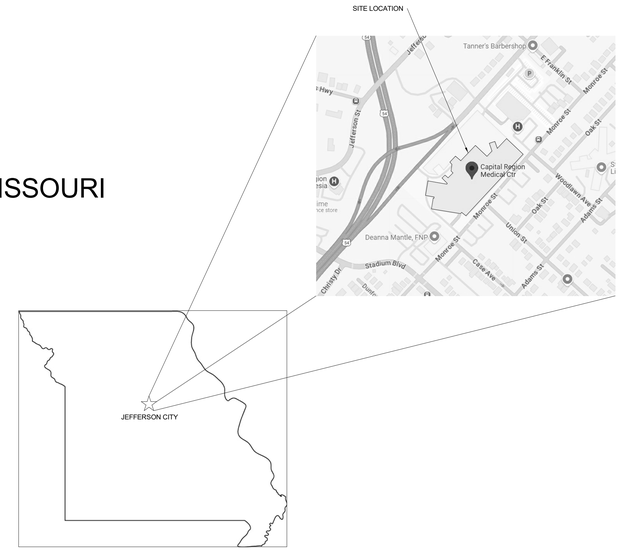
JULY 8, 2025

PREPARED BY:

SSC Engineering, Inc.
18207 Edison Avenue • Chesterfield, MO 63005

I HEREBY CERTIFY THESE DRAWINGS AND/ OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/ OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH THE BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

SIGNATURE: _____



N

PROJECT VICINITY MAP
NOT TO SCALE

APPLICABLE CODES & STANDARDS

APPLICABLE CODES:
INTERNATIONAL BUILDING CODE - 2024
INTERNATIONAL PLUMBING CODE - 2024
INTERNATIONAL MECHANICAL CODE - 2024
INTERNATIONAL FIRE CODE - 2021
NFPA 90A - INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS - 2012/2024
NFPA 75 - 2024
NATIONAL ELECTRICAL CODE - 2023

SEISMIC REQUIREMENTS

SEISMIC RISK CATEGORY: IV
SEISMIC SITE CLASSIFICATION: D
SEISMIC DESIGN CATEGORY: D

REFER TO SPECIFICATION 20 0800 FOR SEISMIC PROTECTION AND SPECIAL INSPECTIONS REQUIRED

DEFERRED SUBMITTALS

SEISMIC BRACING REFER TO SPECIFICATION 20 0800

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region® MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	MJL
CHECKED BY	JMS

SHEET CONTENTS

COVER SHEET

SHEET

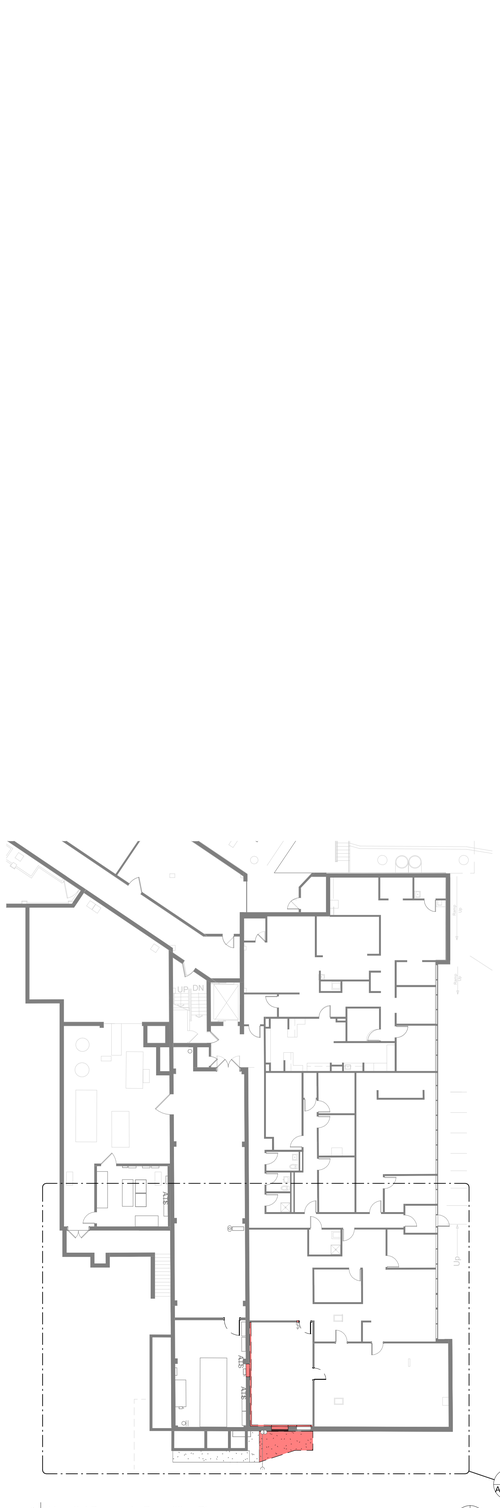
C-001

SSC JOB# 2024379 - BID SET 07/08/25

No.	Plan Keynotes







1 | Hospital Basment - Demolition Plan
AD-101 | 1/16" = 1'-0"

Project North

2 | ENLARGED DEMO FLOOR PLAN - ELECTRICAL ROOM
AD-101 | 1/4" = 1'-0"

Project North

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

REVISIONS

PROJECT NO.	MU#: CP25301
DATE	07/08/2025
DRAWN BY	Author
CHECKED BY	Checker

SHEET CONTENTS

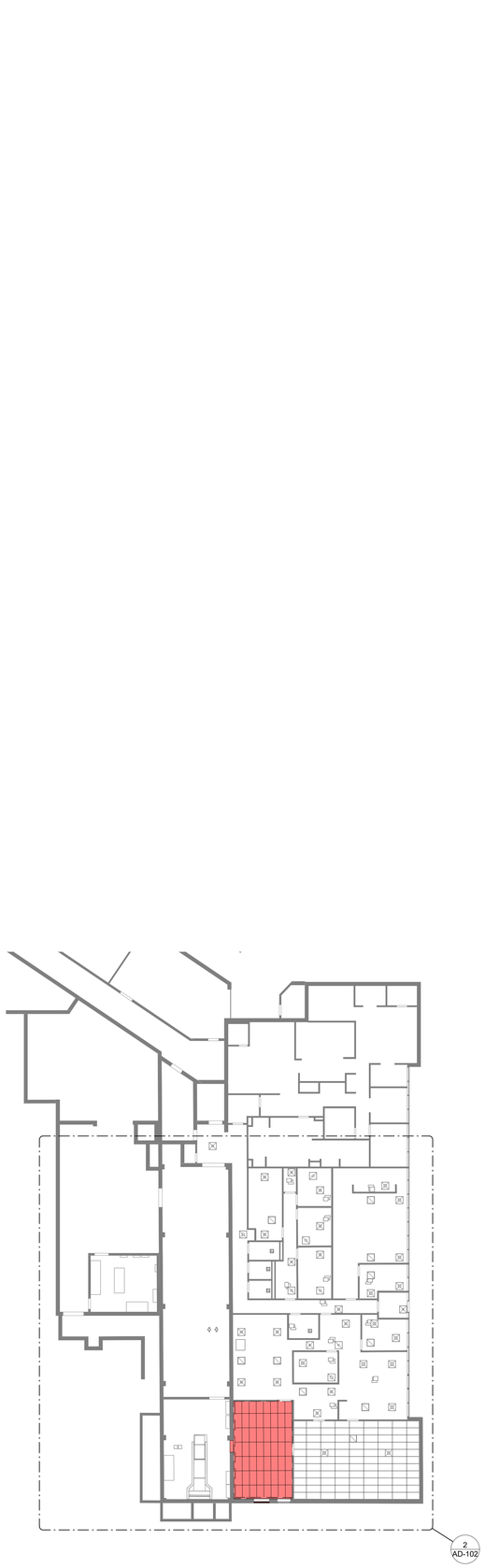
DEMOLITION PLAN - HOSPITAL BASEMENT

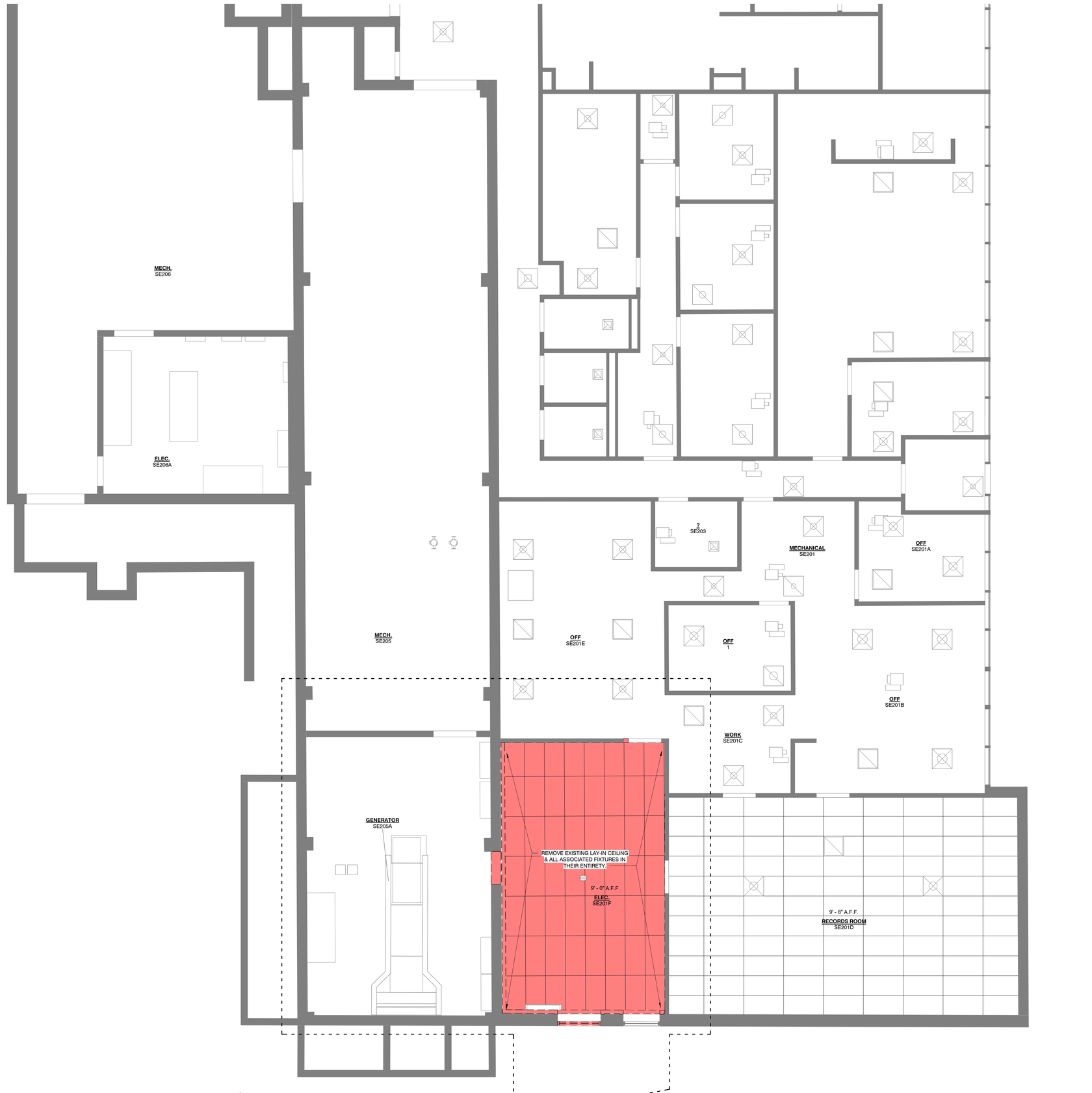
SHEET

AD-101

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

No.	Plan Keynotes





1 Hospital Basement - Demolition RCP USE
AD-102 | 1/16" = 1'-0"

2 ENLARGED DEMO CEILING PLAN - ELECTRICAL ROOM
AD-102 | 1/4" = 1'-0"

Project North

Project North

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

REVISIONS

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

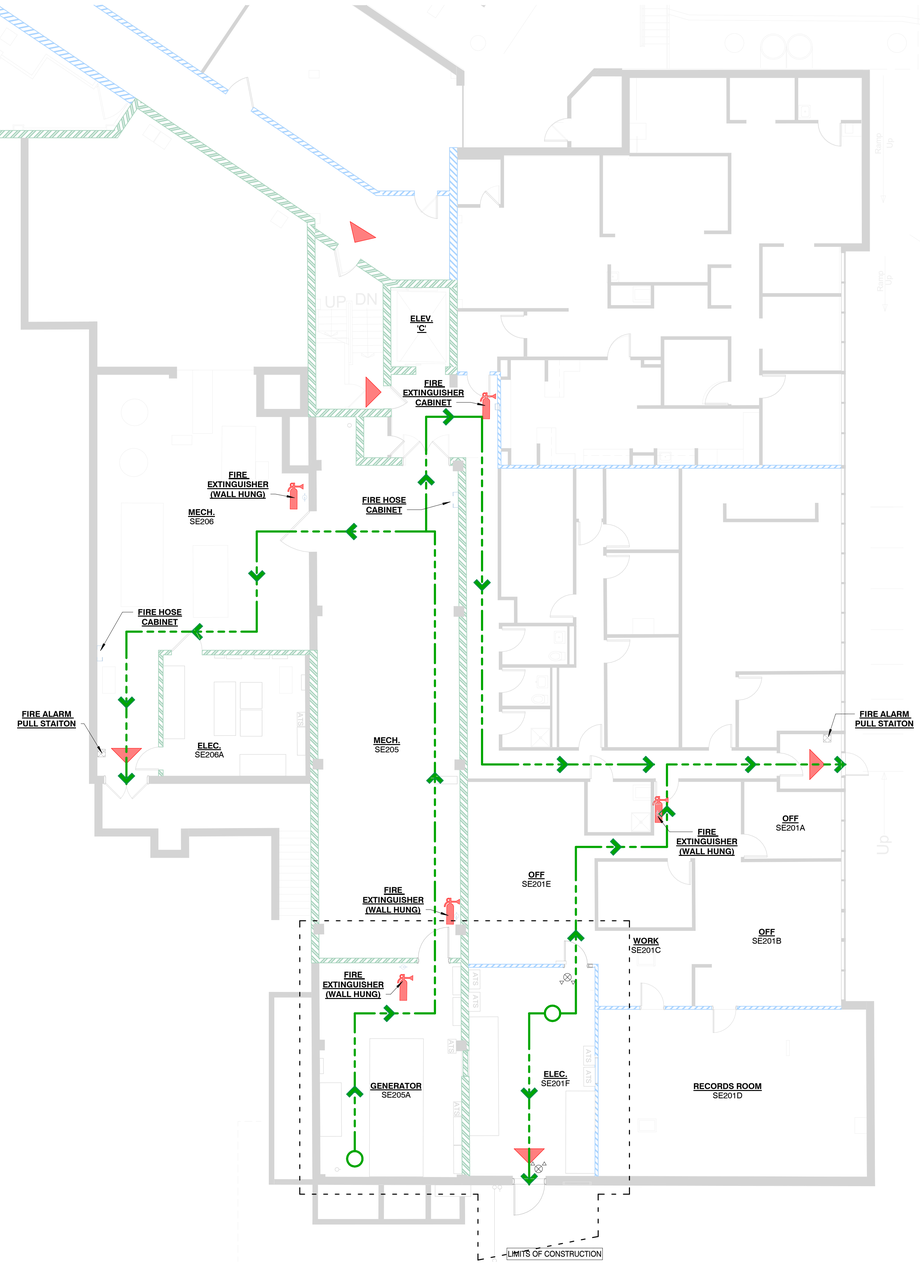
PROJECT NO.	MU#: CP25301
DATE	07/08/2025
DRAWN BY	Author
CHECKED BY	Checker

SHEET CONTENTS

DEMOLITION RCP - BASEMENT FLOOR

SHEET

AD-102



1 | Life Safety Plan Existing Hospital Basment
A-011 | 1/8" = 1'-0"

TEMP. CONSTRUCTION PARTITIONS / CONTAINMENT SYSTEM

CONTRACTOR TO PROVIDE ONE OF THE FOLLOWING AT EACH AREA OF WORK. CONTRACTOR MAY CHOOSE EITHER OF THE FOLLOWING OPTIONS:

MODULAR CONTAINMENT SYSTEM
THE BARRIER SHALL BE ACHIEVED UTILIZING A PRE-APPROVED MODULAR SYSTEM. THE SYSTEM SHALL BE COMPOSED OF FLOOR-TO-CEILING PARTITIONS OF NOT LESS THAN NOMINAL 1½ " THICKNESS ALUMINUM FRAMING. SYSTEM JOINTS SHALL BE INTERLOCKING AND/OR SEALED. ALL CEILING, FLOOR AND WALL CONNECTIONS SHALL BE SEALED TO PREVENT THE MIGRATION OF DUST AND CONTAMINANTS FROM THE ACTIVITY AREA INTO ADJACENT OCCUPIED AREA(S). THE PARTITIONS SHOULD HAVE SOUND ISOLATION PROPERTIES TO REDUCE THE TRANSFER OF SOUND TO OCCUPIED ADJACENT AREAS. THE BARRIER SHALL BE EQUIPPED WITH AN INTEGRATED AIR MANAGEMENT PANEL TO ACCEPT A NEGATIVE AIR EXHAUST DISCHARGE HOSE AND BE EQUIPPED WITH A MAGNAHELIC NEGATIVE AIR INDICATOR. THE BARRIER SHALL BE EQUIPPED WITH AN INTEGRATED DOOR PANEL. THE DOOR SHALL BE EQUIPPED WITH A COMMERCIAL GRADE LEVER HANDLE WITH A REMOVABLE KEY CORE. THE HARDWARE MUST BE POSITIVE LATCHING AND ACCEPT A BEST 7-PIN CORE, WHICH WILL BE PROVIDED AND INSTALLED BY UNIVERSITY OF MISSOURI HEALTHCARE. THE DOOR SHALL REMAIN CLOSED AND LOCKED.

RIGID SYSTEM
THE BARRIER SHALL EXTEND FROM THE FLOOR TO THE CEILING AND SHALL BE CONSTRUCTED UTILIZING 3-5/8 " METAL STUDS AND 1/2" OR 5/8" GYPSUM BOARD ON THE CLEAN SIDE OF THE STUDS. THE METAL STUDS SHALL BE PLACED AT NO LESS THAN 16" AND NO MORE THAN 24" O.C. THE SEAMS AND JOINTS ON THE GYPSUM BOARD MUST BE SEALED WITH AN APPROVED TAPE OR WITH JOINT COMPOUND/TAPE. THE BARRIER SHALL BE ADEQUATELY SEALED AND MAINTAINED AT THE FLOOR AND CEILING CONNECTIONS THROUGHOUT THE PROJECT TO PREVENT THE MIGRATION OF DUST FROM THE WORK AREA INTO ADJACENT OCCUPIED AREAS. AIR FILTRATION EQUIPMENT EXHAUST/VENT HOSE MAY PASS THROUGH THE UPPER PORTION OF THE BARRIER. THE PENETRATION/OPENING FOR THE EXHAUST/VENT HOSE SHALL BE ADEQUATELY SEALED AND MAINTAINED THROUGHOUT THE PROJECT. A MAGNETIC NEGATIVE AIR INDICATOR SHALL BE INSTALLED ON THE BARRIER. THE BARRIER SHALL BE EQUIPPED WITH A DOOR/FRAME ASSEMBLY. THE ASSEMBLY IS NOT REQUIRED TO BE FIRE-RATED, HOWEVER, MUST BE HINGED SWING-TYPE, A MINIMUM WIDTH OF 36" AND BE SOLID WOOD OR METAL CLAD WITH A METAL FRAME. THE DOOR SHALL BE EQUIPPED WITH A COMMERCIAL GRADE LEVER HANDLE WITH A REMOVABLE KEY CORE. THE HARDWARE MUST BE POSITIVE LATCHING AND ACCEPT A BEST 7-PIN CORE, WHICH WILL BE PROVIDED AND INSTALLED BY THE UNIVERSITY OF MISSOURI HEALTHCARE. A DOOR SWEEP MAY BE REQUIRED. THE BARRIER DOOR SHALL REMAIN CLOSED AND LOCKED DURING THE WORK PERIOD.

CONSTRUCTION-RENOVATION MAINTENANCE INFECTIOUS CONTROL RISK MITIGATION CRITERIA

1. MAY REMOVE ONE CEILING TILE EVERY 10 LINEAR FEET. THE TILE(S) SHALL BE IMMEDIATELY RE-INSTALLED ON COMPLETION OPF WORK.
2. THE WORK AREA SHALL BE THROUGHLY CLEANED BY CONSTRUCTION STAFF AT THE COMPLETION OF THE WORK.
3. "CLEAN AS YOU GO"- ANY DEBRIS THAT FALLS UPON SURFACES IN THE WORK AREA SHALL BE COLLECTED UTILIZING A HEPA-FILTERED VACUUM.
4. THE WORK AREA SHALL BE THROUGHLY CLEANED BY ENVIRONMENTAL SERVICES STAFF PRIOR TO RE-OCCUPANCY OF THE SPACE.
5. ANY TRACKING OF FLOOR SURFACES OUTSIDE THE DESIGNATED WORK AREA SHALL BE CLEANED IMMEDIATELY WITH AN APPROVED HEPA-FILTERED VACUUM OR BY DAMP MOP.
6. "DO NOT ENTER" SIGNAGE SHALL BE INSTALLED ON THE ROOM DOOR(S).
7. ROOM SHALL NOT BE OCCUPIED BY PATIENTS OR HEALTHCARE CLINICAL STAFF DURING THE WORK PERIOD.
8. A HEPA FILTERED VACUMM SHALL BE UTILIZED FOR DEBRIS CLEAN-UP / REMOVAL.
9. ALL WORK IS TO BE COORDINATED WITH DEPARTMENT STAFF IN THE AFFECTED AREAS.
10. WHEN REQUIRED, THE AIR PRESSURE IN THE ACTIVITY AREA SHALL BE MAINTAINED NEGATIVE IN RELATIONSHIP TO THE SURROUNDING OCCUPIED AREAS. ONCE ESTABLISHED, THE NEGATIVE AIR MOVEMENT SHALL BE MAINTAINED THROUGHOUT THE PROJECT PERIOD. IF AT ANY TIME THE PRESSURE IS GREATER THAN 0.01 INCHES OF WATER COLUMN, ALL WORK SHALL CEASE INSIDE THE DESIGNATED WORK AREA.

NEGATIVE AIR CRITERIA
EQUIPMENT UTILIZED TO CREATE AND MAINTAIN THE NEGATIVE AIR PRESSURE ENVIRONMENT SHALL BE EQUIPPED WITH A HEAVY-DUTY FLEXIBLE STEEL REINFORCED EXHAUST HOSE AND SHALL BE VENTED IN THE FOLLOWING METHOD:
- NEGATIVE AIR EQUIPMENT FILTRATION
- NEGATIVE AIR EQUIPMENT EXHAUST CRITERIA
- NEGATIVE AIR MONITORING

SPECIAL INSPECTIONS

CHECK IF REQUIRED	INSPECTION TASK	CONTINUOUS	PERIODIC	STANDARD	NOTES / COMMENTS
☒	PENETRATION FIRESTOPS	☐	☒	ASTM E2174	TESTING TO BE CONDUCTED BY AN APPROVED AGENCY
☐	INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS AND THEIR STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED.	☐	☐	IBC 2021 1705.13.6	
☒	SOILS/COMPACTION TESTS (FOR BACKFILL OF ELEC. & PAVEMENT)				
☐	DRILLED FOUNDATIONS				
☐	MICRO PILE FOUNDATIONS				
☒	REINFORCEMENT INSPECTIONS (FOR PAVEMENT)				
☐	EMBEDDED ANCHORS				
☒	CONCRETE TESTING (FOR PAVEMENT)				
☐	MASONRY TESTING/INSPECTIONS				
☐	STRUCTURAL STEEL				
☐	STRUCTURAL STEEL WELDS				
☐	STRUCTURAL WOOD CONSTRUCTION				
☐	MASTIC/SPRAYED FIRE RESISTIVE MATERIALS				
☐	SMOKE CONTROLS				
☐	SEISMIC COMPLIANCE				
☐	WOOD OR STEEL FABRICATION PROCESS				

DEFERRED SUBMITTALS (2021 IBC 107.3.4.1)

CHECK IF REQUIRED	TYPE OF SUBMITTAL:
☐	SURVEY
☐	CIVIL
☐	LANDSCAPING
☐	ARCHITECTURAL
☐	STRUCTURAL
☐	MECHANICAL
☐	ELECTRICAL
☐	PLUMBING
☐	FIRE ALARM
☐	FIRE SPRINKLER
☐	A/V
☐	FIRESTOPPING
☐	SEISMIC (SEISMIC RESISTANCE OF MEP SYSTEMS)
☐	CITY/PUBLIC WORK DETAILS
☐	OTHER:
☐	OTHER:

FEC FIRE EXTINGUISHER CABINET OR BRACKET
EXIT SIGN AND EXIT DIRECTION
EMERGENCY LIGHT

RATED WALL TYPES

COLOR, IF AVAILABLE	PATTERN	DESCRIPTION
		SMOKE TIGHT PARTITION
		0.5 HOUR FIRE RATED PARTITION
		1 HOUR FIRE RATED BARRIER - ALSO BLUE IN COLOR LIFE SAFETY PLANS
		1 HOUR FIRE / SMOKE RATED BARRIER - ALSO BLUE IN COLOR LIFE SAFETY PLANS
		1.5 HOUR FIRE RATED BARRIER - ALSO PURPLE IN COLOR LIFE SAFETY PLANS
		2 HOUR FIRE RATED BARRIER
		2 HOUR FIRE / SMOKE RATED BARRIER
		3 HOUR FIRE RATED BARRIER
		3 HOUR FIRE / SMOKE RATED BARRIER
		4 HOUR FIRE RATED BARRIER
		4 HOUR FIRE / SMOKE RATED BARRIER

2 | Life Safety- Legend- Rated Walls
A-011 | 1/8" = 1'-0"

LIFE SAFETY PLAN LEGEND:

EXIT SIGN AND EXIT DIRECTION
EMERGENCY LIGHT
FIRE EXTINGUISHER (IN CABINET)
EXIT
EXIT / EGRESS PATH OF TRAVEL

LIFE SAFETY PLAN LEGEND
1/8" = 1'-0"

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

REVISIONS

PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

SHEET CONTENTS
LIFE SAFETY PLAN - HOSPITAL BASEMENT LEVEL

SHEET
A-011

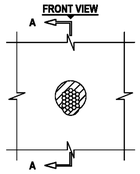
UL/cUL SYSTEM NO. W-L-3385

CABLE BUNDLE THROUGH GYPSUM WALL ASSEMBLY

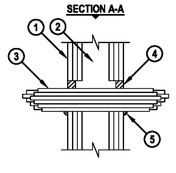
F-RATING = 1-HR., 2-HR., OR 3-HR.
T-RATING = 0-HR.

WL3385c.010816

FRONT VIEW



SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR., 2-HR., OR 3-HR. FIRE-RATING) (3-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE.
3. CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING :
   A. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC INSULATION AND JACKET.
   B. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC INSULATION AND JACKET.
   C. MAXIMUM 4 PAIR NO. 22 AWG CAT 5 OR CAT 6 COMPUTER CABLE.
   D. MAXIMUM 1/2" DIAMETER TYPE RG/U COAXIAL CABLE WITH PE INSULATION AND PVC JACKET.
   E. MAXIMUM RG 6/U COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKET.
   F. MAXIMUM 5/8" DIAMETER MULTIPLE FIBER OPTIC COMMUNICATION CABLE WITH PVC JACKET.
   G. MAXIMUM 3/C COPPER CONDUCTOR NO. 8 AWG METAL CLAD CABLE.
   H. MAXIMUM 3/C (+GRND) NO. 8 AWG COPPER CONDUCTOR CABLE WITH PVC INSULATION AND JACKET.
   I. ANY CABLES, METAL-CLAD CABLE, OR ARMORED CABLE CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
4. HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH REQUIRED FOR 1-HR. OR 2-HR. FIRE-RATING.
   B. MINIMUM 1" DEPTH REQUIRED FOR 3-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT CABLE BUNDLE/WALL INTERFACE ON BOTH SIDES OF WALL.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 7/8".
3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.

Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 1 of 1 Scale 1/8" = 1" Date Jan. 08, 2016	Drawing No. WL 3385c

Saving Lives through Innovation and Education

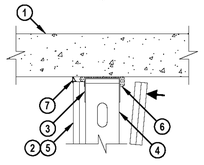
UL/cUL SYSTEM NO. HW-D-0757

TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

ASSEMBLY RATING = 1-HR. OR 2-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT
L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT
CLASS II AND III MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION OR 66% COMPRESSION ONLY (SEE NOTES NO. 2 AND 3 BELOW)

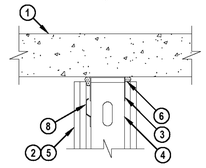
HWD0757h.102824

CROSS-SECTIONAL VIEW



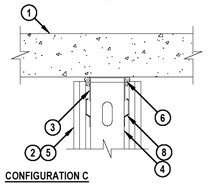
CONFIGURATION A

CROSS-SECTIONAL VIEW



CONFIGURATION B

CROSS-SECTIONAL VIEW



CONFIGURATION C

Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 1 of 2 Scale 5/32" = 1" Date Oct. 28, 2024	Drawing No. HWD 0757h

Saving Lives through Innovation and Education

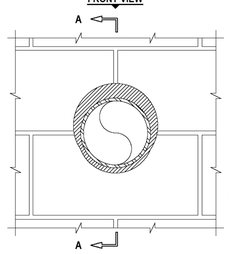
UL/cUL SYSTEM NO. W-J-1067

METAL PIPE THROUGH CONCRETE WALL OR CONCRETE BLOCK WALL ASSEMBLY

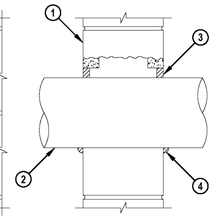
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR. OR 1/2-HR. (SEE NOTES BELOW)
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

W-J1067.020525

FRONT VIEW



SECTION A-A



Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 1 of 2 Scale 11/64" = 1" Date Feb. 05, 2025	Drawing No. WJ 1067i

Saving Lives through Innovation and Education

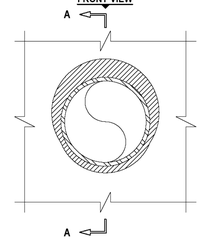
UL/cUL SYSTEM NO. W-L-1054

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

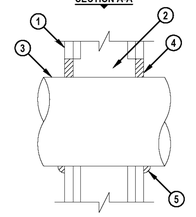
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR. OR 1/2-HR. (SEE NOTES BELOW)
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

WL1054w.030725

FRONT VIEW



SECTION A-A



Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 1 of 2 Scale 7/32" = 1" Date Mar. 07, 2025	Drawing No. WL 1054w

Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. HW-D-0757

TOP OF WALL JOINT : GYPSUM WALL ASSEMBLY

ASSEMBLY RATING = 1-HR. OR 2-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM / LIN FT
L-RATING AT 400°F = LESS THAN 1 CFM / LIN FT
CLASS II AND III MOVEMENT CAPABILITIES - 50% COMPRESSION OR EXTENSION OR 66% COMPRESSION ONLY (SEE NOTES NO. 2 AND 3 BELOW)

HWD0757h.102824

1. CONCRETE FLOOR ASSEMBLY (2-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. ANY UL/cUL CLASSIFIED PRECAST (HOLLOW-CORE) CONCRETE FLOOR (MINIMUM 6" THICK).
2. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
3. CEILING RUNNER (MIN. 25 GA., FLANGE HEIGHT OF CEILING RUNNER SHALL BE MINIMUM 1/4" GREATER THAN MAXIMUM EXTENDED JOINT WIDTH) FASTENED TO UNDERSIDE OF CONCRETE FLOOR WITH MASONRY ANCHORS OR STEEL FASTENERS (SPACED MAX. 24" OC) (SEE NOTE NO. 1 BELOW).
4. STEEL STUDS (MINIMUM 3-1/2" WIDE) CUT 3/4" TO 1" LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN CEILING RUNNER WITHOUT ATTACHMENT.
5. 5/8" OR 1-1/4" THICKNESS GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL UL DESIGN. TOP ROW OF SCREWS SHALL BE INSTALLED INTO STUD 1" TO 1-1/2" BELOW THE BOTTOM EDGE OF THE CEILING RUNNER.
6. HILTI CFS-TTS 212, CFS-TTS 358, CFS-TTS 600, CFS-TTS OS, OR CFS-TTS R OS FIRESTOP TOP TRACK SEAL INSTALLED OVER CEILING RUNNER PRIOR TO ATTACHMENT TO UNDERSIDE OF CONCRETE FLOOR IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.
7. [OPTIONAL] PVC WALL MOUNTED DEFLECTION BEAD (BY TRIM-TEX INC.) INSTALLED PER MANUFACTURER'S INSTRUCTIONS. DEFLECTION BEAD INSTALLED ON ONE OR BOTH SIDES OF WALL.
8. [OPTIONAL] MIN 25-GAUGE STEEL RESILIENT FURRING CHANNEL SECURED TO STUDS (ITEM 4) WITH NO. 8 STEEL SCREWS SPACED 24 IN. OC ON ONE OR BOTH SIDES OF WALL (SEE CONFIGURATIONS B AND C). TOP ROW OF RESILIENT FURRING CHANNEL TO HAVE MINIMUM 1/4 IN SPACING FROM BOTTOM EDGE OF TOP TRACK. RESILIENT CHANNEL MAY BE INSTALLED AT ONE OR BOTH SIDES OF WALL.

NOTES : 1. AS AN ALTERNATE TO CEILING RUNNER IN ITEM 3, SLOTTED CEILING RUNNERS MAY BE USED FOR MIN 3-5/8" STUDS ONLY. CONSULT THE UL FIRE RESISTANCE DIRECTORY FOR APPROVED MANUFACTURERS.
2. TO ACCOMMODATE MAX. 50% COMPRESSION OR EXTENSION MAX. WIDTH OF JOINT = 1/2".
3. TO ACCOMMODATE MAX. 66% COMPRESSION ONLY MAX. WIDTH OF JOINT = 3/4".

Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 2 of 2 Scale - Date Oct. 28, 2024	Drawing No. HWD 0757h

Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. W-J-1067

METAL PIPE THROUGH CONCRETE WALL OR CONCRETE BLOCK WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR. OR 1/2-HR. (SEE NOTES BELOW)
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400° F = LESS THAN 1 CFM / SQ FT

W-J1067.020525

1. CONCRETE WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 3-3/4" THICK, FOR 1-HR. FIRE- RATING).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 5" THICK, FOR 2-HR. FIRE-RATING).
   C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER STEEL EMT.
   F. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM EMT.
   G. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM CONDUIT.
   H. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM PIPE (SCH. 5 OR HEAVIER).
3. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
4. MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 32-1/4".
2. ANNULAR SPACE (PENETRATIONS 2A THROUGH 2E) = MINIMUM 0", MAXIMUM 2-1/4".
3. ANNULAR SPACE (PENETRATIONS 2F THROUGH 2H) = MINIMUM 0", MAXIMUM 1-1/2".
4. PENETRATIONS 2A THROUGH 2E MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
5. WHEN PENETRATIONS 2F THROUGH 2H ARE INSTALLED, CONCRETE WALL ASSEMBLY SHALL BE MINIMUM 6" THICK FOR A 1-HR. OR 2-HR. F-RATING.
6. WHEN PENETRATIONS 2F THROUGH 2H ARE INSTALLED, THE T-RATING IS 1/2-HR.
7. WHEN PENETRATIONS 2F THROUGH 2H ARE INSTALLED, THE F-RATING IS 0-HR. UNDER THE CAN/ULC-S115 TESTING STANDARD.

Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 2 of 2 Scale - Date Feb. 05, 2025	Drawing No. WJ 1067i

Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. W-L-1054

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR. OR 1/2-HR. (SEE NOTES BELOW)
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

WL1054w.030725

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE (SEE NOTE BELOW).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER STEEL EMT.
   F. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM EMT.
   G. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM CONDUIT.
   H. MAXIMUM 2" NOMINAL DIAMETER ALUMINUM PIPE (SCH. 5 OR HEAVIER)
4. MINIMUM 5/8" DEPTH HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE MAX INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING :
A. 32-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE (PENETRATIONS 3A THROUGH 3E) = MINIMUM 0", MAXIMUM 2-1/4".
3. ANNULAR SPACE (PENETRATIONS 3F THROUGH 3H) = MINIMUM 0", MAXIMUM 1-1/2".
4. PENETRATIONS 3A THROUGH 3E MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
5. WHEN PENETRATIONS 3F THROUGH 3H ARE INSTALLED, STEEL STUDS TO BE MINIMUM 3-5/8" WIDE.
6. WHEN PENETRATIONS 3F THROUGH 3H ARE INSTALLED, T-RATING IS 1/2-HR.
7. WHEN PENETRATIONS 3F THROUGH 3H ARE INSTALLED, THE F-RATING IS 0-HR. UNDER THE CAN/ULC-S115 TESTING STANDARD.

Hilti Firestop Systems	HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet 2 of 2 Scale - Date Mar. 07, 2025	Drawing No. WL 1054w

Saving Lives through Innovation and Education

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

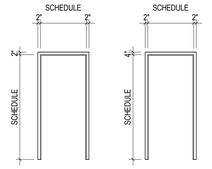
PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

SHEET CONTENTS
UL ASSEMBLIES - PENETRATIONS

SHEET
A-012

NEW DOOR SCHEDULE (ELEC UPGRADES)

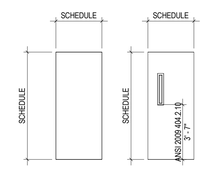
DOOR						FRAME						
NUMBER	TO ROOM: NAME	PANEL 1 TYPE	PANEL 1 WIDTH	DOOR HEIGHT	Thickness	FRAME	FIRE RATING	Head Detail	Jamb Detail	Sill Detail	HARDWARE GROUP	COMMENTS
SE201F.1	ELEC.	PW01	3' - 0"	7' - 0"	1 3/4"	HM-001	45	3 / A-031	4 / A-031	N/A	01	SEE SPECIFICATION "SECTION 087100-DOOR HARDWARE" FOR DOOR HARDWARE GROUP
SE201F.2	ELEC.	PM01	4' - 0"	7' - 0"	1 3/4"	HM-001	0	5 / A-031	6 / A-031	7 / A-031	02	SEE SPECIFICATION "SECTION 087100-DOOR HARDWARE" FOR DOOR HARDWARE GROUP
SE205A.1	MECH.	PM01	4' - 0"	7' - 0"	1 3/4"	HM-001	90	1 / A-031	2 / A-031	N/A	03	SEE SPECIFICATION "SECTION 087100-DOOR HARDWARE" FOR DOOR HARDWARE GROUP



Family Name: FM01
Description: Frame, Hollow Metal Double Rabbet

Family Name: FM02
Description: Masonry Frame, Hollow Metal Double Rabbet

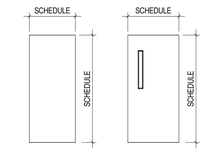
LEGEND- FRAME METAL



Family Name: PM01
Description: Hollow Metal, Solid

Family Name: PM02
Description: Hollow Metal, Narrow Vision

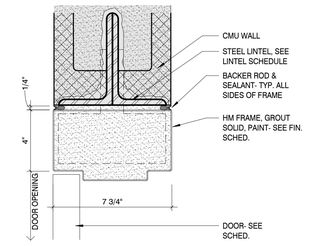
LEGEND- DOORS METAL



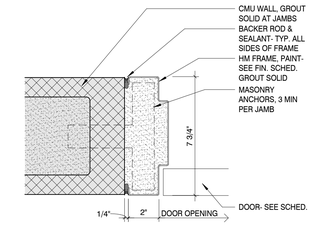
Family Name: PW01
Description: Panel, Wood, Solid

Family Name: PW02
Description: Panel, Wood, Narrow Vision

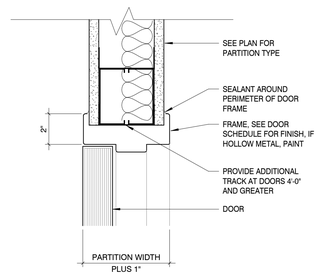
LEGEND- DOORS WOOD



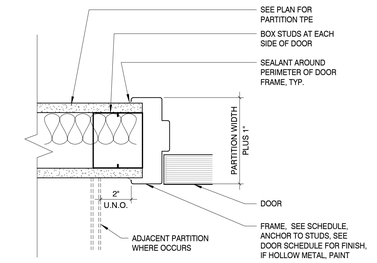
1 HM Door Dtl. - CMU - Head
A-031 3" = 1'-0"



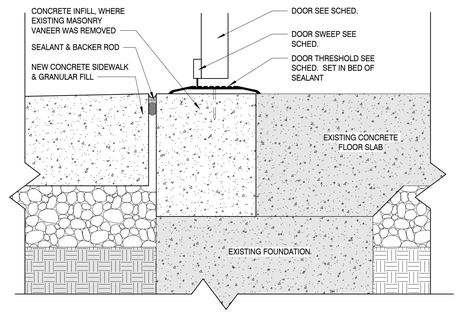
2 HM Door Dtl. - CMU - Jamb
A-031 3" = 1'-0"



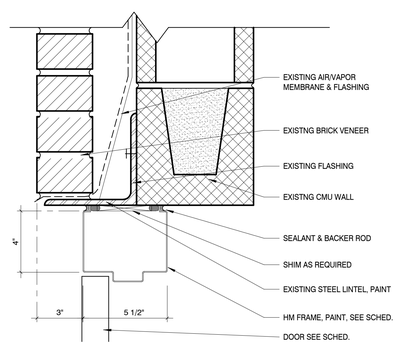
3 TYPICAL DOOR HEAD DETAIL
A-031 3" = 1'-0"



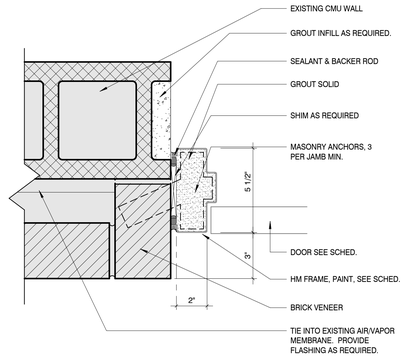
4 TYPICAL DOOR JAMB DETAIL
A-031 3" = 1'-0"



7 HM Door Dtl. - Exterior - Brick 2 - Sill
A-031 3" = 1'-0"



5 HM Door Dtl. - Exterior - Brick 2 - Head
A-031 3" = 1'-0"



6 HM Door Dtl. - Exterior - Brick 2 - Jamb
A-031 3" = 1'-0"

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

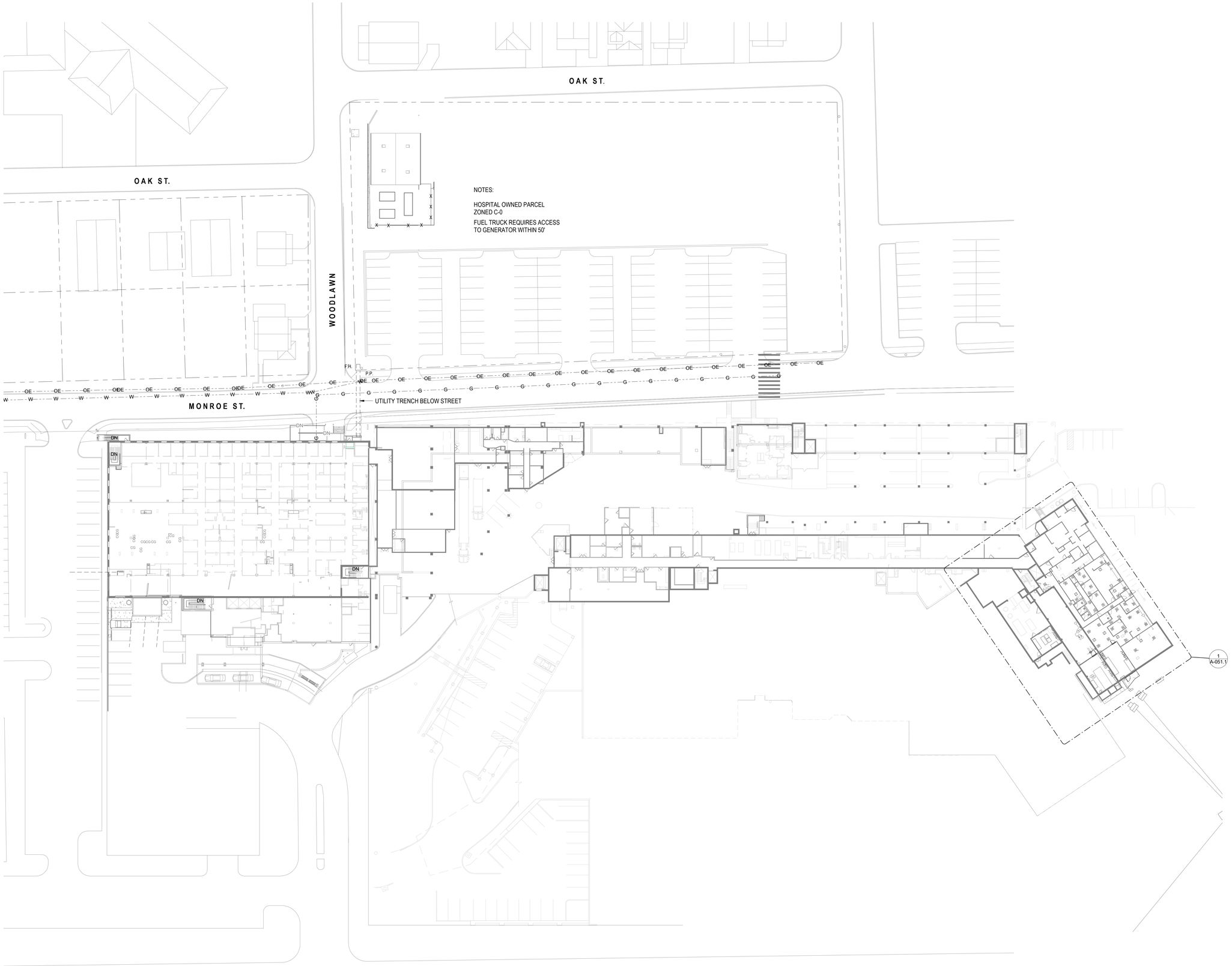
REVISIONS

PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

SHEET CONTENTS
DOORS & FRAMES

SHEET
A-031

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25



1 Site Plan
A-040 1" = 30'-0"

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

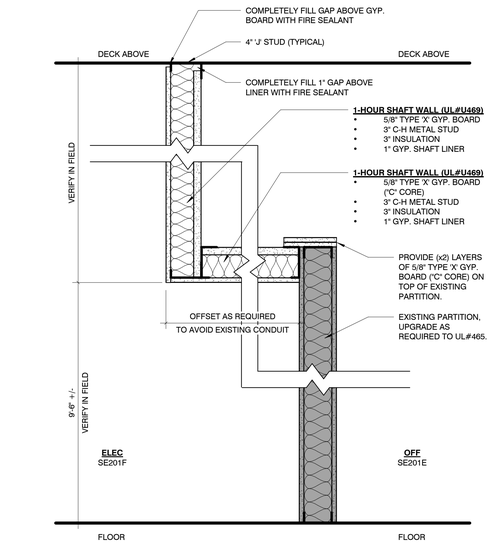
REVISIONS

PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

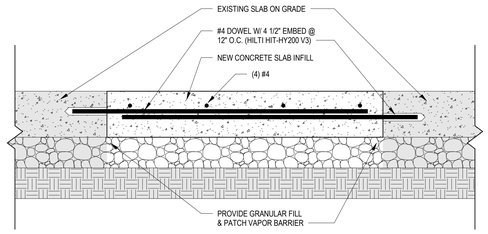
SHEET CONTENTS
ARCHITECTURAL SITE PLAN

SHEET
A-040

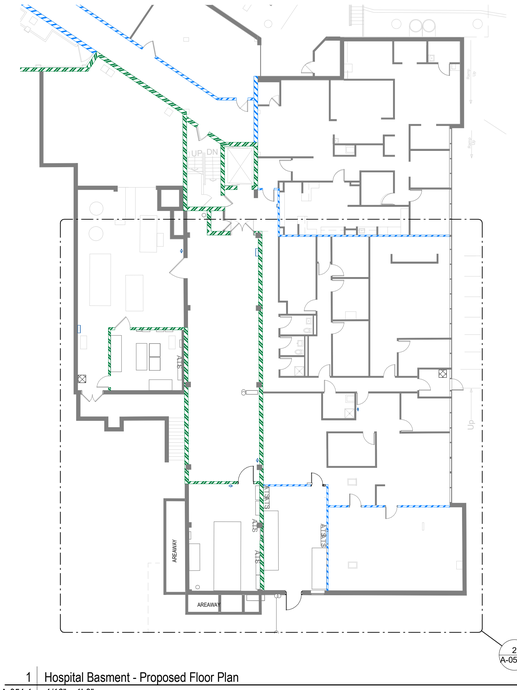
LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25



3 OFFSET 1-HOUR WALL
A-051.1 | 1 1/2" = 1'-0"

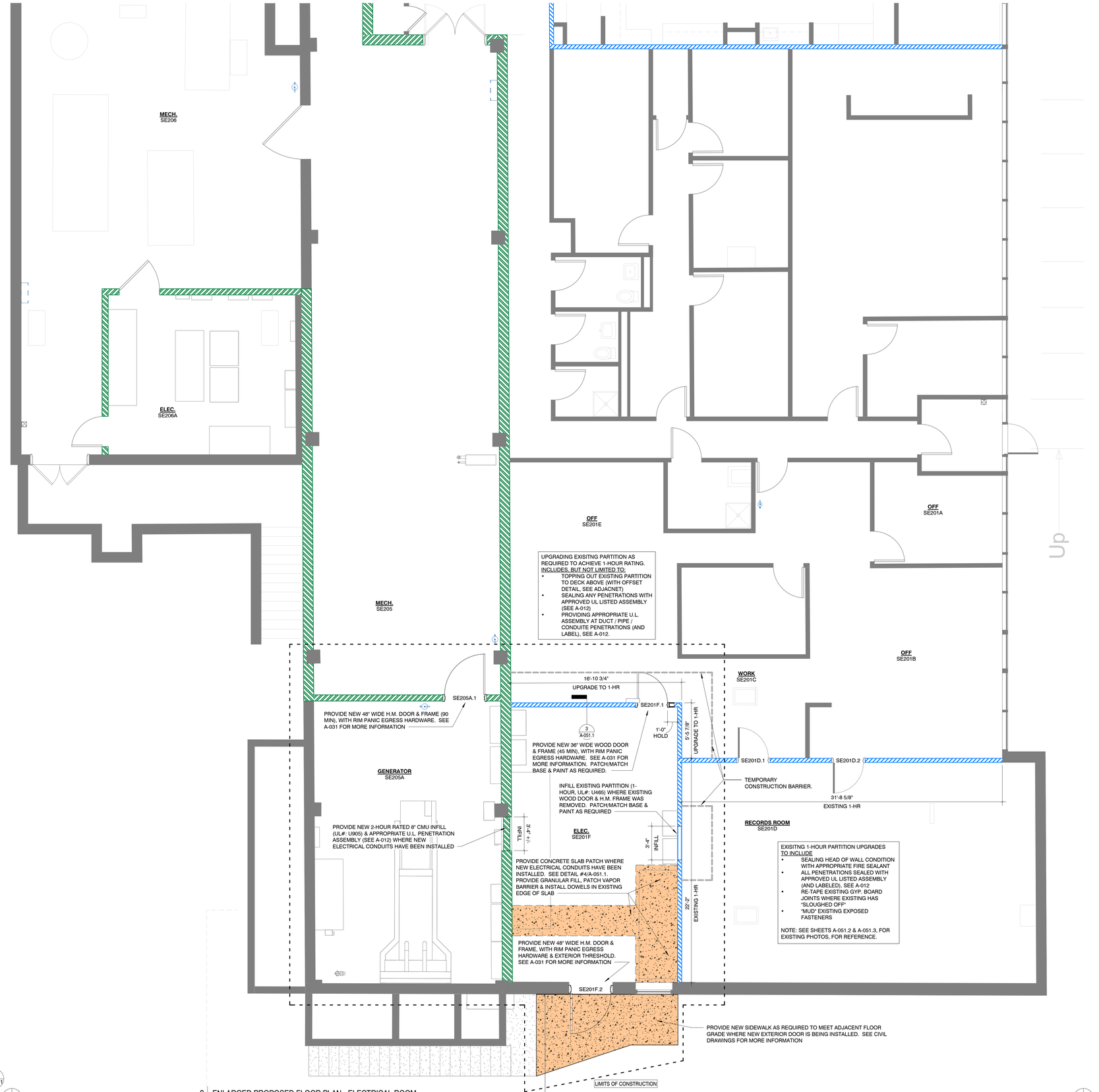


4 TYPICAL SLAB TRENCH DETAIL
A-051.1 | 1 1/2" = 1'-0"



1 Hospital Basment - Proposed Floor Plan
A-051.1 | 1/16" = 1'-0"

Project North



2 ENLARGED PROPOSED FLOOR PLAN - ELECTRICAL ROOM
A-051.1 | 1/4" = 1'-0"

Project North

No. | Plan Keynotes

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

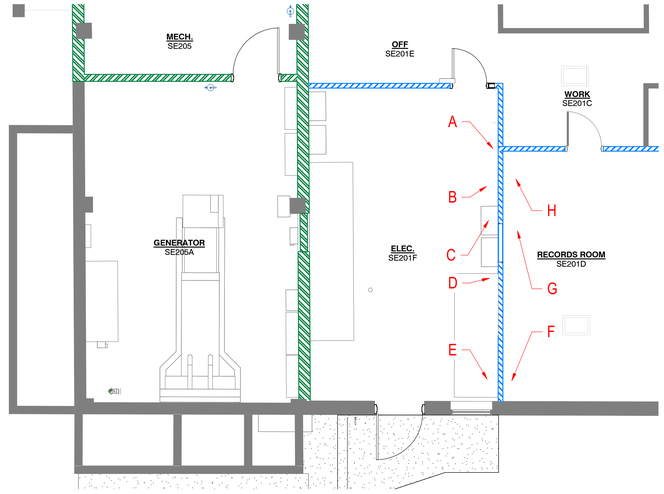
REVISIONS

PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

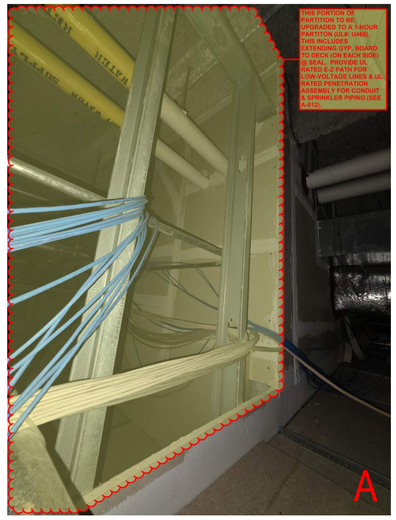
SHEET CONTENTS
PROPOSED FLOOR PLAN - HOSPITAL BASEMENT

SHEET
A-051.1

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25



1 KEY PLAN - ABOVE CEILING PHOTOS
A-051.2 3/16" = 1'-0"

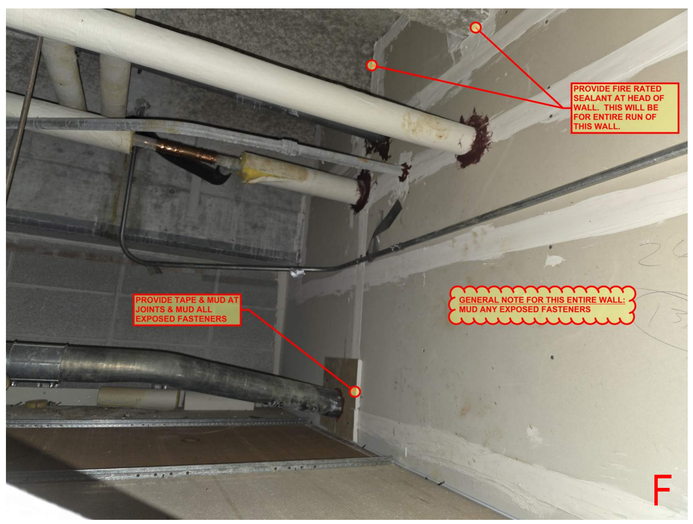
















SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

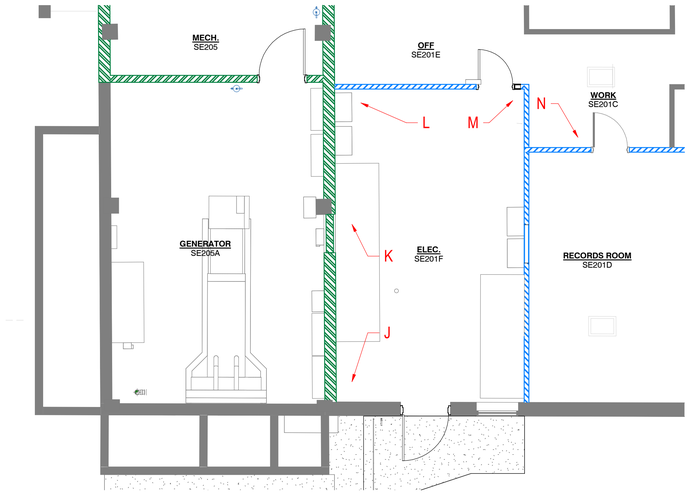
REVISIONS

PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

SHEET CONTENTS
ABOVE CEILING UPGRADES

SHEET
A-051.2

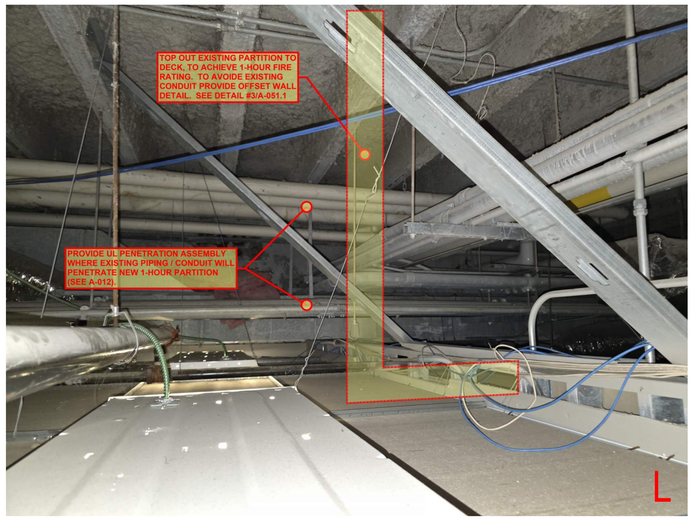
LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

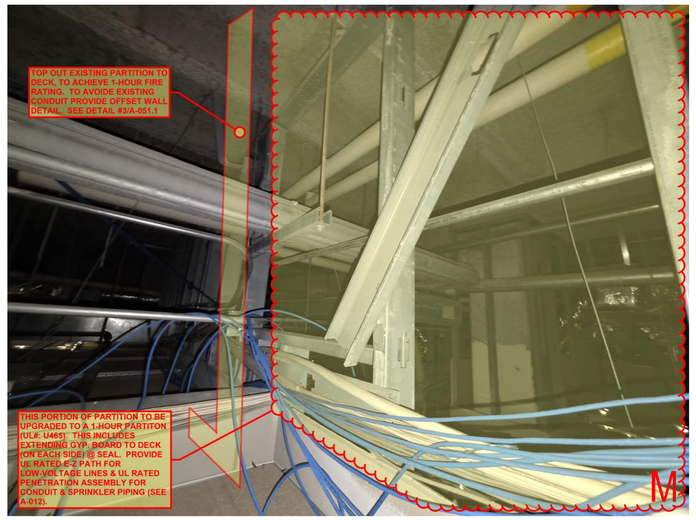


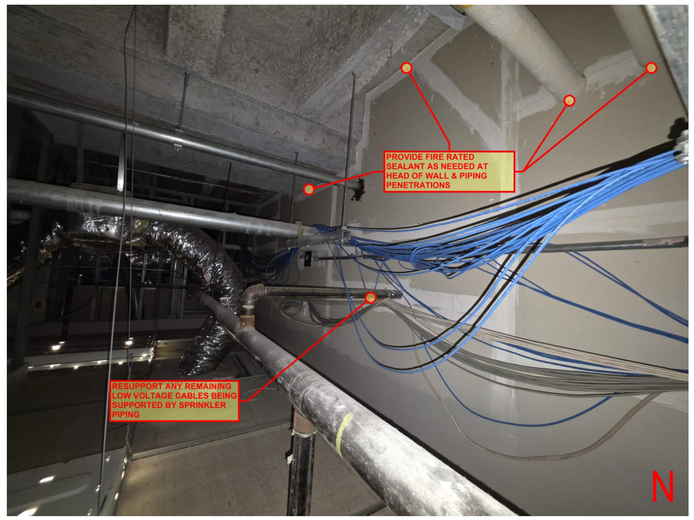
1 KEY PLAN - ABOVE CEILING PHOTOS
A-051.3 3/16" = 1'-0"











SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

REVISIONS

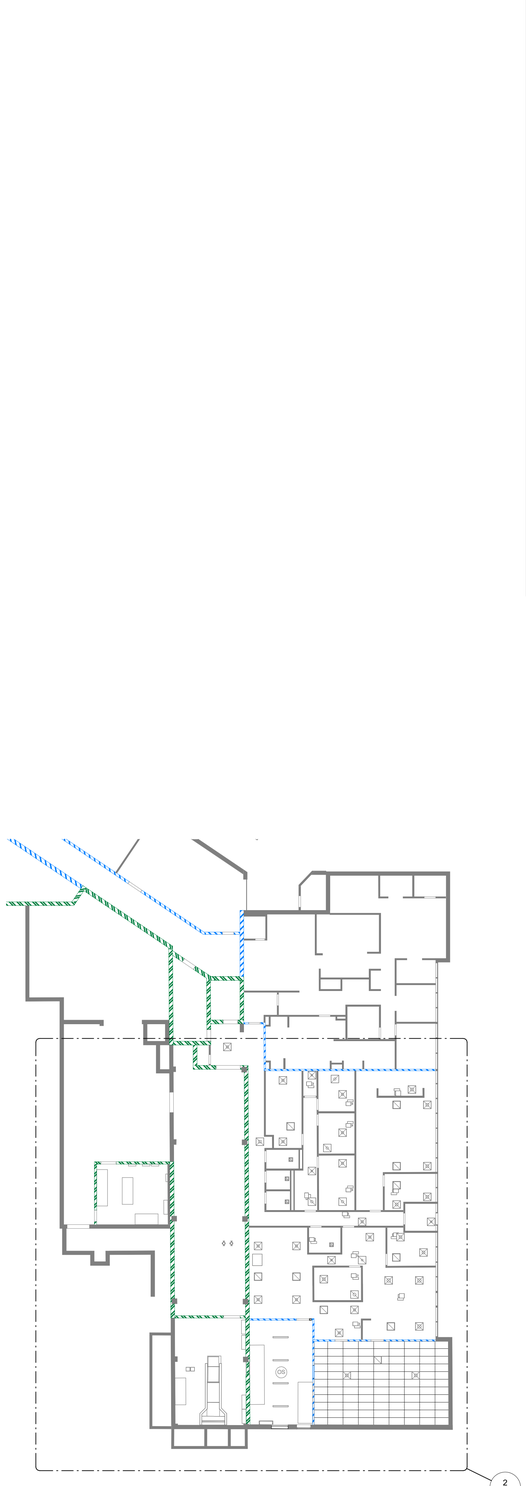
PROJECT NO. MU#: CP25301
DATE 07/08/2025
DRAWN BY Author
CHECKED BY Checker

SHEET CONTENTS
ABOVE CEILING UPGRADES

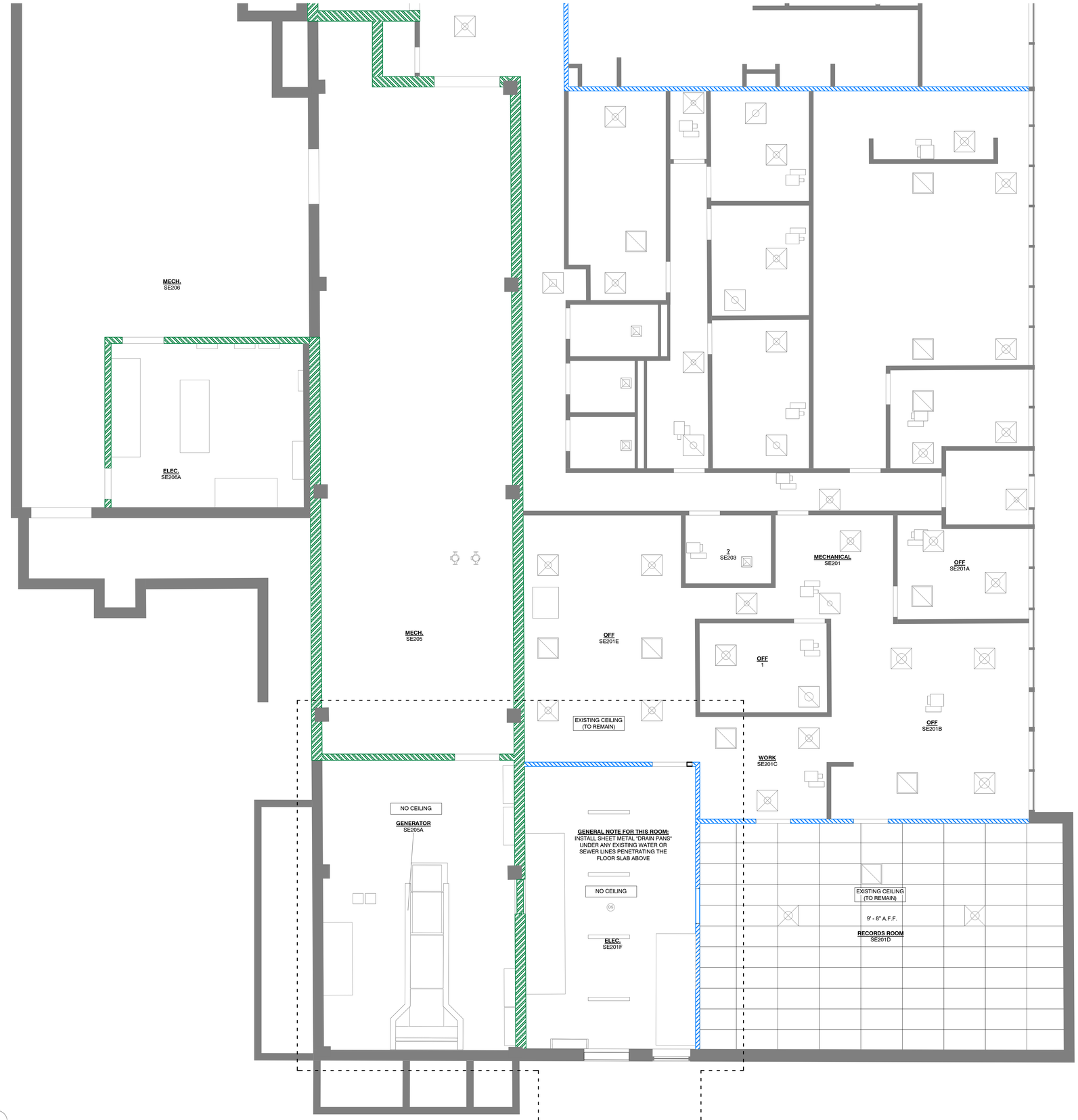
SHEET
A-051.3

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

No.	Keynote Text



1 | Hospital Basement - Proposed Reflected Ceiling Plan
A-150.1 | 1/16" = 1'-0"



2 | ENLARGED PROPOSED CEILING PLAN - ELECTRICAL ROOM
A-150.1 | 1/4" = 1'-0"

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816
Missouri Certificate of Authority: #000514

CIVIL ENGINEER:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
RYAN J. KING
07/08/2025
NUMBER A-2008006225
ARCHITECT

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

MU#: CP25301
CRMC ELECTRICAL INFRASTRUCTURE EXPANSION

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

REVISIONS

LAWRENCE GROUP JOB#: 2024205 - BID SET 07/08/25

PROJECT NO.	MU#: CP25301
DATE	07/08/2025
DRAWN BY	Author
CHECKED BY	Checker

SHEET CONTENTS

PROPOSED RCP - HOSPITAL BASEMENT Copy 1

SHEET

A-150.1

TEMPORARY BENCHMARK (TBM):

TBM #1 – CHISELED SQUARE ON TOP OF VENT WELL NEAR EXISTING TRANSFORMERS, SEE PLAN.

ELEVATION = 704.92

SURVEY CONTROL POINTS:

POINT #	NORTH	EAST	ELEVATION	DESCRIPTION
CP #1	994622.98	1730893.92	656.24	PK NAIL
CP #2	994537.96	1730987.02	652.27	PK NAIL
CP #3	994820.30	1731138.10	696.42	PK NAIL

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483

WATER:

MISSOURI AMERICAN WATER
636-263-7374

ELECTRIC:

AMEREN MISSOURI
1310 INDUSTRIAL DR.
JEFFERSON CITY, MO 65109
573-681-7515

NATURAL GAS:

AMEREN MISSOURI
101 MADISON STREET
JEFFERSON CITY, MO 65101
573-635-0171

TELEPHONE:

BRIGHT SPEED
833-370-2914

FIBER

LUMEN
877-453-8353

MNA-BLUEBIRD
855-BLUEBIRD

TELEPHONE/T.V.:

SOCKET TELECOM
2703 CLARK LANE
COLUMBIA, MO 65202
573-817-0000

TELEPHONE/T.V.:

MEDIACOM
1922 SOUTHRIDGE DR.
JEFFERSON CITY, MO 65109
855-633-4226

STORM/SANITARY SEWER :

CITY OF JEFFERSON WASTEWATER
573-634-6328

ELEC, FIBER, STREET LIGHT, TRAFFIC SIGNAL

MODOT CENTRAL DISTRICT
1511 MISSOURI BLVD. PO BOX 718
JEFFERSON CITY, MO 65102
573-690-3347

SITE PLANS LEGEND OF SYMBOLS:

- EXISTING CURB
- PROPOSED CURB
- RIP RAP
- EXISTING STRUCTURE
- EXISTING TREELINE
- PROPOSED TREELINE
- EDGE OF WATERWAY
- EXISTING WATERLINE
- PROPOSED WATERLINE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING UNDERGROUND CABLE TELEVISION
- EXISTING HIGH VOLTAGE ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELEC. & TV
- EXISTING OVERHEAD ELEC., TV & TELE.
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- 100 YEAR FLOOD PLAIN
- FLOODWAY
- ORDINARY HIGH WATER MARK
- STREAM SIDE BUFFER
- OUTER STREAM BUFFER
- DEMOLITION LIMITS
- SILT FENCE

- FF=XXX.X — FINISH FLOOR OF STRUCTURE
- XXX.XX TC — PROPOSED TOP OF CURB ELEVATION
- XXX.XX TP — PROPOSED TOP OF PAVEMENT ELEVATION
- XXX.XX FG — PROPOSED FINISH GRADE ELEVATION
- XXX.XX TW — PROPOSED TOP OF WALL
- XX — LOT NUMBER
- X — STORM SEWER STRUCTURE LABEL
- X — SANITARY SEWER STRUCTURE LABEL
- HP. — HIGH POINT
- LP. — LOW POINT
- EXISTING SIGNS
- EXISTING POWER POLE
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING GAS METER
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- MANHOLE
- EXISTING SANITARY SEWER LATERAL
- PROPOSED SANITARY SEWER LATERAL
- PROPOSED TRACER WIRE TEST STATION BOX
- EXISTING AIR CONDITIONER
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRICAL TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING LIGHT POLE
- EXISTING GUY WIRE
- PERMANENT FENCING
- XX" — EXISTING UTILITY LOCATED BY MAPPING ONLY
- TREE PROTECTION FENCING

GENERAL NOTES:

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010–319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MoDNR CLEAN WATER COMMISSION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

CONTRACTOR TO PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND PAVEMENT THAT IS TO REMAIN. ALL DAMAGED ITEMS OUTSIDE THE SCOPE OF WORK TO BE REPLACED OR REPAIRED TO ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.

ALL PAVEMENTS, SIDEWALKS, ABANDONED SEWERS, PIPELINES, EXCESS EARTHWORK, OR OTHER OBSTRUCTIONS TO CONSTRUCTION THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH STATE REGULATION 10 CSR 80-2.010 (9)(A)1.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" THAT ARE NOT TO BE PAVED, SHALL BE FINE GRADED BY THE CONTRACTOR. PLACE 6" OF TOPSOIL AND SEED AND STRAW MULCH AREAS.

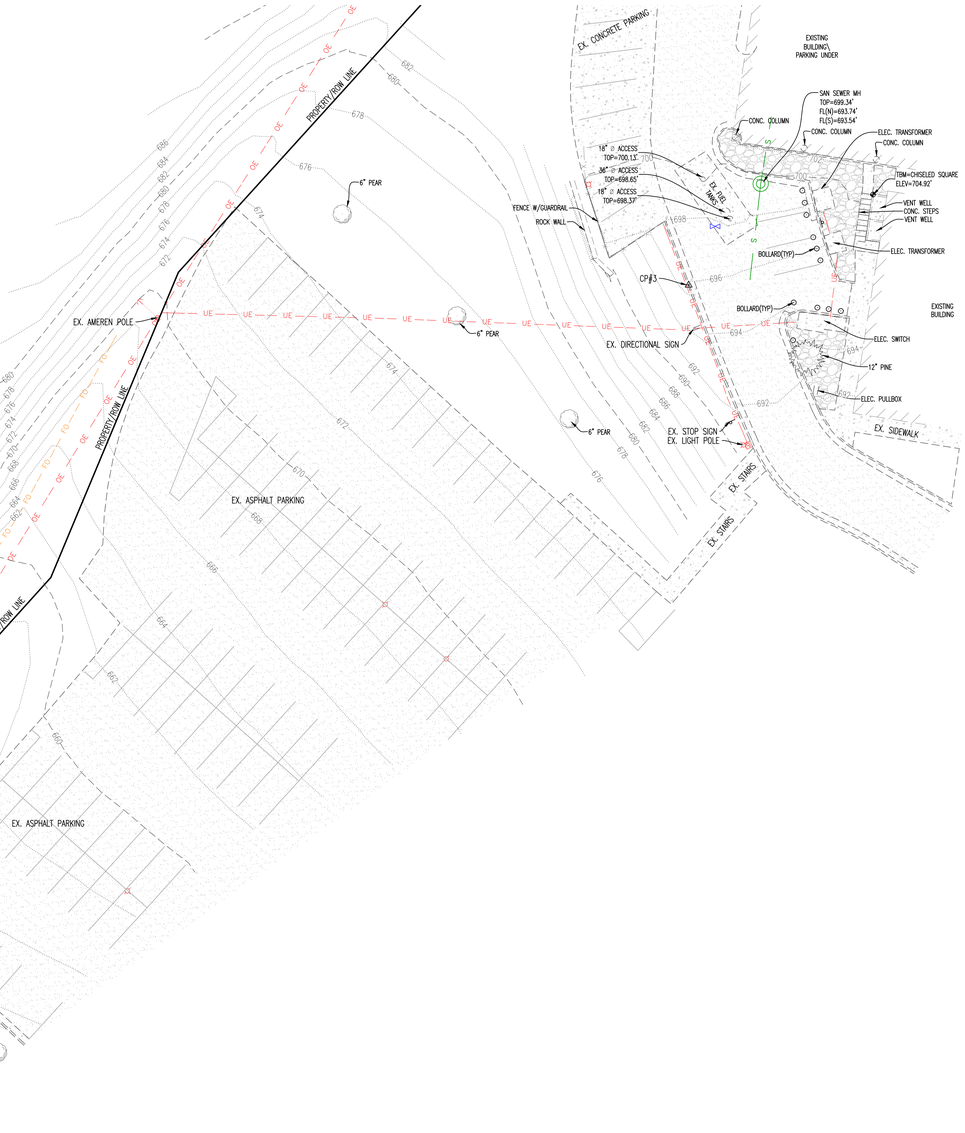
TOTAL DISTURBED AREA = 0.13 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NOT NEEDED FOR THIS PROJECT.

ALL WORK SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AND BE SUBJECT TO THE OWNER'S APPROVAL PRIOR TO PROCEEDING.

N

SCALE: 1"=20'
0 10 20 40



SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
ANDREW T. GREENE
NUMBER PE-2010000443
PROFESSIONAL ENGINEER
7/8/2025

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/2025
DRAWN BY	ATG
CHECKED BY	ATG

SHEET CONTENTS

EXISTING SITE CONDITIONS

SHEET

C101

SSC JOB# 2024379 - BID SET 07/08/25

LEGEND OF LABELS

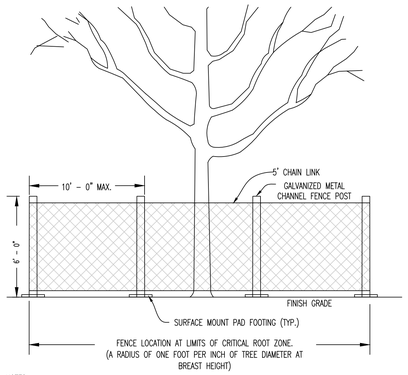
(A)	CONTRACTOR TO INSTALL 6' TALL CHAIN LINK FENCE WITH GATES AS NEEDED FOR LIMITS OF WORK AREA. FENCE SHALL REMAIN IN PLACE THROUGHOUT PROJECT DURATION.
(B)	CONTRACTOR TO USE EXISTING PAVING AS CONSTRUCTION ENTRY AND EXIT AND STAGING AREA WITHIN THE FENCE LIMITS. ALL CONSTRUCTION TRAFFIC SHALL UTILIZE THIS ENTRY AND EXIT TO THE PROJECT. ANY DAMAGED PAVEMENT DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. CONTRACTOR SHALL CLEAN/POWER WASH CONSTRUCTION AREA PAVEMENT ONCE WORK IS COMPLETE.
(C)	EXISTING TREE TO BE PROTECTED. INSTALL TREE PROTECTION FENCING AS SHOWN. REFER TO DETAIL ON THIS SHEET. CONTRACTOR SHALL NOT DISTURB AREAS WITHIN DRIP LINE OF TREE TO BE PROTECTED.
(D)	EXISTING TREE TO BE REMOVED. REMOVE ENTIRE ROOT BALL AND FILL VOID WITH SUITABLE SOIL.
(E)	REMOVE EXISTING PAVEMENT FOR UTILITY CONSTRUCTION AS SHOWN. EXACT PAVEMENT REMOVAL LIMITS SHALL BE TO NEAREST SAW JOINT IN CONCRETE PAVEMENT. PROVIDE CLEAN, FULL DEPTH SAW CUT IN EXISTING PAVEMENT TO REMAIN TO PROVIDE A CLEAN CONNECTION TO THE NEW PAVEMENT.
(F)	EXISTING BOLLARD TO BE REMOVED.
(G)	EXISTING PARKING SIGN TO BE REMOVED.
(H)	EXISTING SWITCHGEAR TO BE REMOVED AND PAD TO REMAIN. COORDINATE REMOVAL SEQUENCE WITH MEP PLANS.
(I)	EXISTING TRANSFORMER TO BE REMOVED, PAD TO REMAIN FOR REUSE. COORDINATE REMOVAL SEQUENCE WITH MEP PLANS.

UTILITY PROTECTION DURING EXCAVATION NOTE:

ALL EXISTING UTILITIES SHALL TO BE PROTECTED DURING WORK. UTILITIES SHALL REMAIN ACTIVE DURING WORK AND SHALL BE PROTECTED FROM SHIFTING, SAGGING OR OTHER DAMAGE.

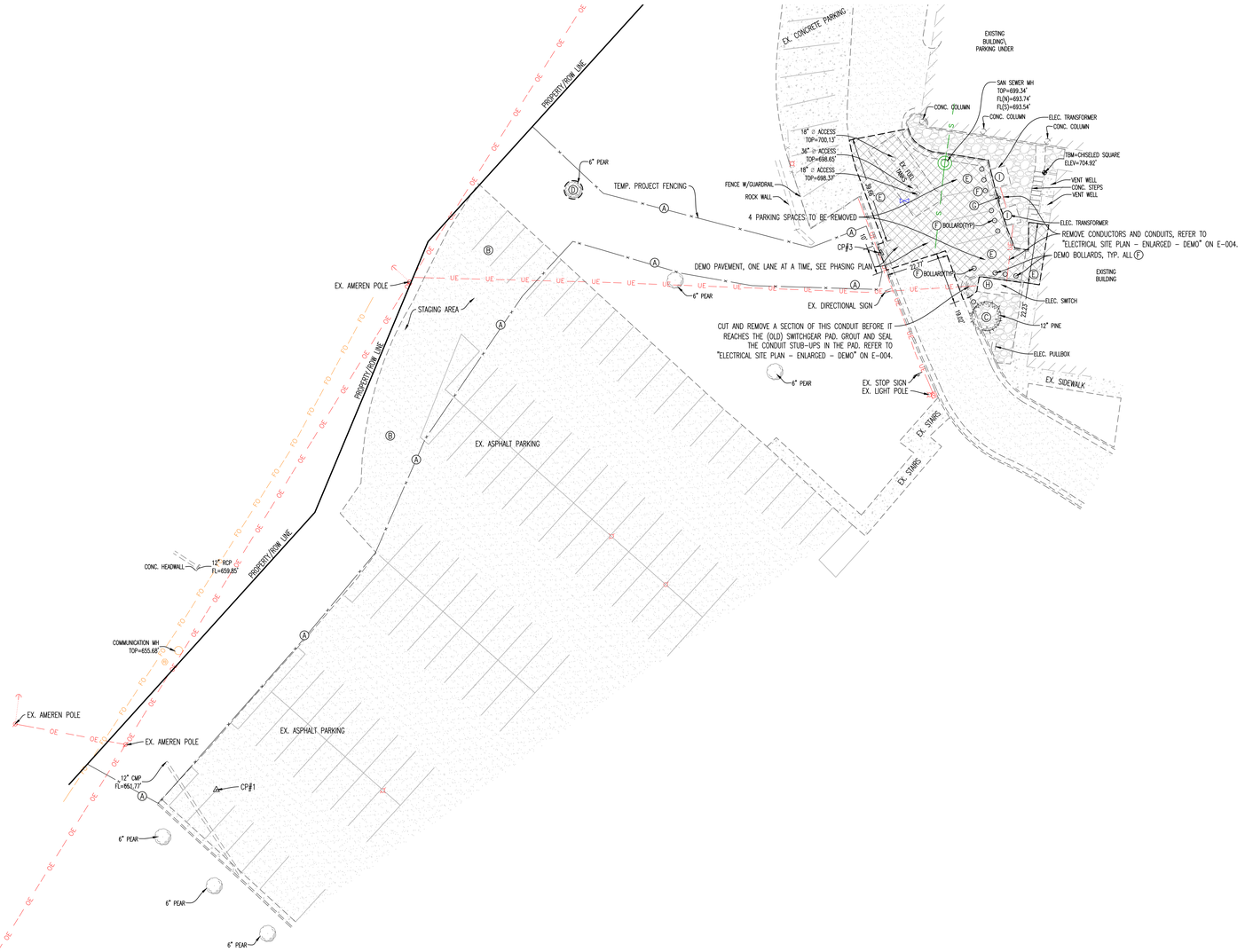
GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL TAKE CAUTION TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN.
2. CERTAIN AREAS MAY BE REQUIRED TO BE REMOVED IN PHASES. CONTRACTOR TO COORDINATE TIMING WITH OWNER.
3. ITEMS OUTSIDE CONSTRUCTION LIMITS OR CALLED OUT TO REMAIN SHALL BE PROTECTED AS REQUIRED. CONTRACTOR SHALL REPAIR/REPLACE DAMAGED ITEMS OUTSIDE PROJECT SCOPE OF WORK AT NO EXPENSE TO THE OWNER.
4. CONCRETE TO BE REMOVED TO THE NEAREST SAW JOINT, BUT NOT LESS THAN THE DEMOLITION LIMITS SHOWN ON THE PLAN.
5. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO DISCONNECTING ANY UTILITIES.



NOTES:
1. MAKE CLEAN SAWCUTS ON ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY W/ TOPSOIL THOROUGHLY.
2. MAINTAIN FENCE TO KEEP IT ANCHORED FIRMLY TO POST WITHOUT SAGGING.
3. ANCHOR FENCE TO POSTS WITH WIRES OR PLASTIC TIES.
4. REMOVE FENCING AND TIES FROM SITE WHEN DIRECTED BY OWNER/ENGINEER OR AT SUBSTANTIAL COMPLETION OF PROJECT.

TREE PROTECTION FENCE



SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
ANDREW T. GREENE
NUMBER PE-2020000043
PROFESSIONAL ENGINEER
7/8/2025

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

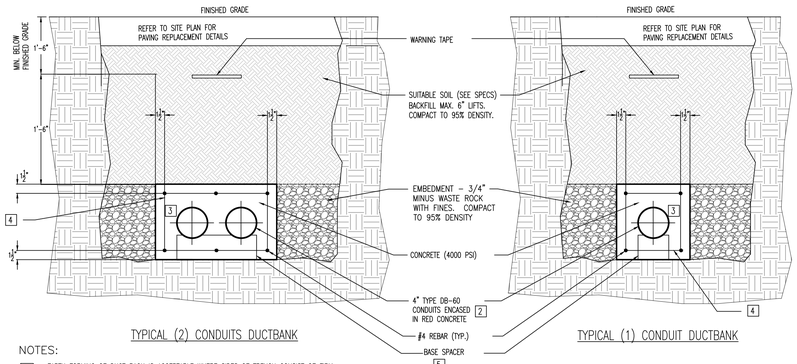
REVISIONS

PROJECT NO.	CP252301
DATE	07/08/2025
DRAWN BY	ATG
CHECKED BY	ATG

SHEET CONTENTS
SITE DEMOLITION PLAN

SHEET
C102

SSC JOB# 2024379 - BID SET 07/08/25

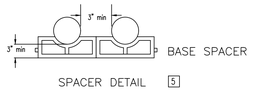


TYPICAL (2) CONDUITS DUCTBANK

TYPICAL (1) CONDUIT DUCTBANK

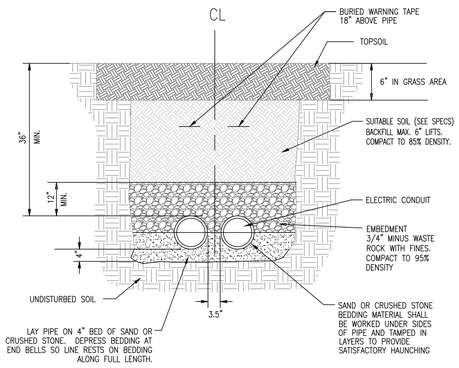
NOTES:

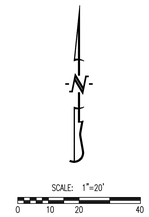
1. EARTH FORMING OF DUCT BACK IS ACCEPTABLE WHERE SIDES OF TRENCH CONSIST OF FIRM, UNDISTURBED SOIL. FORMING SHALL BE REQUIRED TO LIMIT DUCTBANK SIDEWALL THICKNESS TO 12" FROM SIDE OF DUCT.
2. IN PLACING RED CONCRETE, USE A DELIVERY CHUTE TO MINIMIZE FALL OF THE CONCRETE INTO THE TRENCH. USE A SPLASH BOARD TO DIVERT THE FLOW OF CONCRETE AWAY FROM THE TRENCH SIDES AND AVOID DISLODGING SOIL AND STONES. CONCRETE SLUMP SHALL HAVE CONSISTENCY TO INSURE FLOWING OF GROUT BETWEEN, UNDER, AND ALL AROUND DUCTS. PRECAUTIONS SHALL BE USED TO PREVENT VOIDS AND AIR POCKETS, AND TO PREVENT THE DUCT FROM FLOATING.
3. EACH UNDERGROUND CONDUIT MUST HAVE A MINIMUM 3" CONCRETE ENVELOPE IN EACH DIRECTION AND MAXIMUM OF 6" VERTICAL AND A MAXIMUM OF 12" HORIZONTAL. THE NUMBER AND CONFIGURATION OF CONDUIT IN DUCT BANKS WILL VARY.
4. #4 REBAR TIE LOOP EVERY 48" MAXIMUM O.C.. SPACE BETWEEN LONGITUDINAL REINFORCING REBAR IS 12" MAXIMUM.
5. INSTALL SPACERS AT A MAXIMUM OF EVERY 8 FEET.



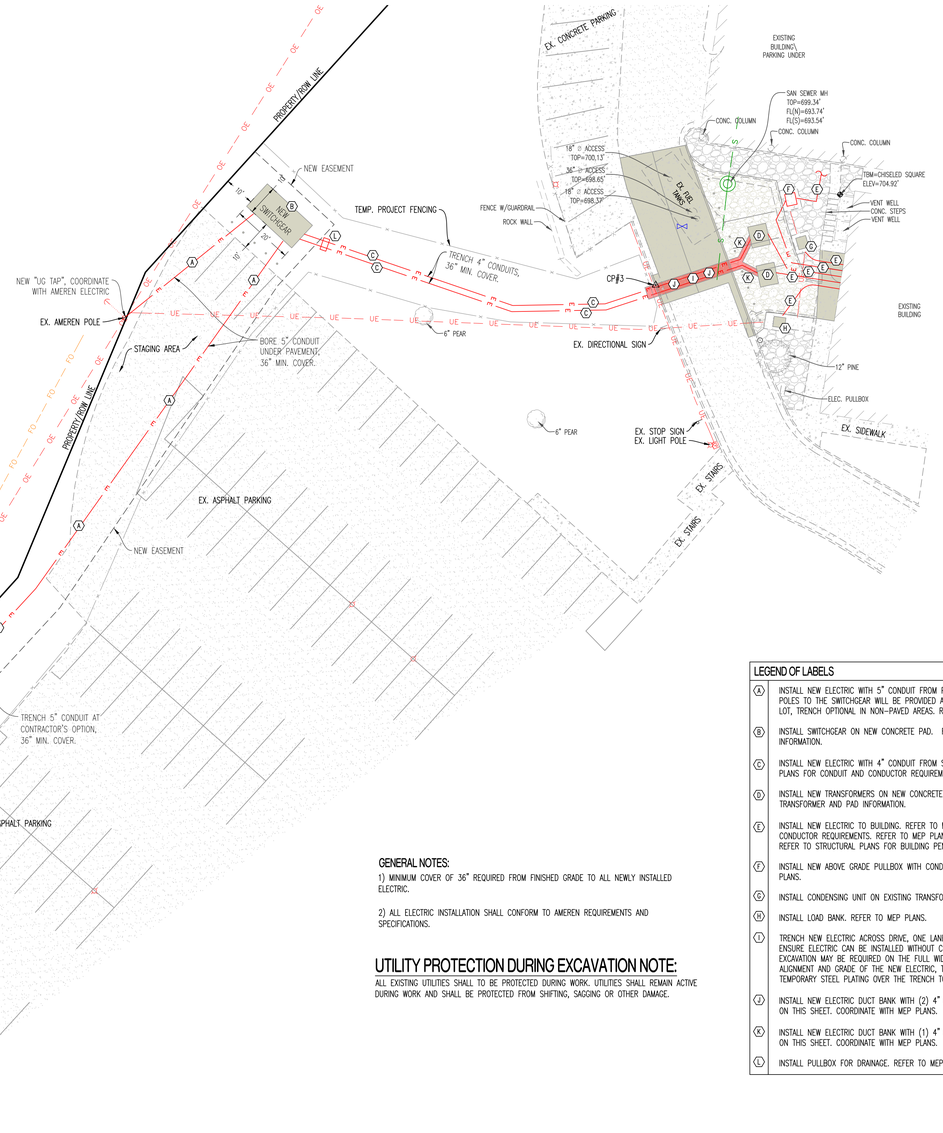
SPACER DETAIL 5

ELECTRIC DUCTBANK DETAILS





ELECTRIC TRENCH FROM SWITCH TO TRANSFORMERS (EXCEPT ENCASEMENT AREAS)



GENERAL NOTES:

1) MINIMUM COVER OF 36" REQUIRED FROM FINISHED GRADE TO ALL NEWLY INSTALLED ELECTRIC.

2) ALL ELECTRIC INSTALLATION SHALL CONFORM TO AMEREN REQUIREMENTS AND SPECIFICATIONS.

UTILITY PROTECTION DURING EXCAVATION NOTE:

ALL EXISTING UTILITIES SHALL TO BE PROTECTED DURING WORK. UTILITIES SHALL REMAIN ACTIVE DURING WORK AND SHALL BE PROTECTED FROM SHIFTING, SAGGING OR OTHER DAMAGE.

LEGEND OF LABELS

A	INSTALL NEW ELECTRIC WITH 5" CONDUIT FROM POLE TO SWITCHGEAR LOCATION. CABLING FROM THE POLES TO THE SWITCHGEAR WILL BE PROVIDED AND INSTALLED BY AMEREN. BORE UNDER PARKING LOT, TRENCH OPTIONAL IN NON-PAVED AREAS. REFER TO MEP PLANS FOR FURTHER REQUIREMENTS.
B	INSTALL SWITCHGEAR ON NEW CONCRETE PAD. REFER TO MEP PLANS FOR SWITCHGEAR AND PAD INFORMATION.
C	INSTALL NEW ELECTRIC WITH 4" CONDUIT FROM SWITCHGEAR TO NEW TRANSFORMERS. REFER TO MEP PLANS FOR CONDUIT AND CONDUCTOR REQUIREMENTS, ALL BY CONTRACTOR.
D	INSTALL NEW TRANSFORMERS ON NEW CONCRETE PADS AS SHOWN. REFER TO MEP PLANS FOR TRANSFORMER AND PAD INFORMATION.
E	INSTALL NEW ELECTRIC TO BUILDING. REFER TO MEP PLANS (SHEET E-004) FOR CONDUIT AND CONDUCTOR REQUIREMENTS. REFER TO MEP PLANS FOR SERVICE CONTINUATION WITHIN BUILDING. REFER TO STRUCTURAL PLANS FOR BUILDING PENETRATION OF CONDUITS.
F	INSTALL NEW ABOVE GRADE PULLBOX WITH CONDUITS TO NEW MECHANICAL ROOM. REFER TO MEP PLANS.
G	INSTALL CONDENSING UNIT ON EXISTING TRANSFORMER PAD. REFER TO MEP PLANS.
H	INSTALL LOAD BANK. REFER TO MEP PLANS.
I	TRENCH NEW ELECTRIC ACROSS DRIVE, ONE LANE AT A TIME, SEE PHASING PLAN. CONTRACTOR SHALL ENSURE ELECTRIC CAN BE INSTALLED WITHOUT CONFLICTING WITH EXISTING UTILITIES. EXPLORATORY EXCAVATION MAY BE REQUIRED ON THE FULL WIDTH OF THE DRIVE TO DETERMINE THE EXACT ALIGNMENT AND GRADE OF THE NEW ELECTRIC, THIS WOULD REQUIRE THE CONTRACTOR TO INSTALL TEMPORARY STEEL PLATING OVER THE TRENCH TO KEEP A LANE OF TRAFFIC OPEN.
J	INSTALL NEW ELECTRIC DUCT BANK WITH (2) 4" CONDUITS AS SHOWN. REFER TO DUCTBANK DETAIL ON THIS SHEET. COORDINATE WITH MEP PLANS.
K	INSTALL NEW ELECTRIC DUCT BANK WITH (1) 4" CONDUIT AS SHOWN. REFER TO DUCTBANK DETAIL ON THIS SHEET. COORDINATE WITH MEP PLANS.
L	INSTALL PULLBOX FOR DRAINAGE. REFER TO MEP PLANS.

AMEREN DIRECT BURY CONDUIT NOTES (FROM POLE TO SWITCH):

CONDUIT SPECIFICATION. ELECTRICAL GRADE, RIGID, NONMETALLIC, SCHEDULE 40 PVC CONDUIT IN 5' SIZE, AS SPECIFIED ON THE DRAWINGS, SHALL BE INSTALLED. IT SHALL BE 90° C RATED PVC AND MEET THE LATEST REVISION OF NEMA STANDARD TC2. THE COMPANY SPECIFIES LENGTHS OF EITHER 10'OR 20', WITH BELLED OR COUPLED ENDS.

CONDUIT JOINING. INDIVIDUAL DUCT SECTIONS SHALL BE JOINED WITH COUPLINGS AND PVC CEMENT TO ENSURE A CONTINUOUS, LEAK-FREE DUCT WITH A CONSISTENT INTERNAL DIAMETER THROUGHOUT. NO INTERNAL PROTRUSIONS OR OBSTRUCTIONS ARE ALLOWED. THE CUSTOMER/CONTRACTOR SHALL ENSURE THAT NO FOREIGN MATERIAL ENTERS THE DUCTS TO BE JOINED. THE END OF THE DUCT SHALL BE PLUGGED WITH APPROVED END PLUGS WHENEVER WORK ON THE DUCT INSTALLATION IS STOPPED.

PULLING TAPE INSTALLATION. A FLAT PULLING TAPE RATED A MINIMUM 2500 LBS. SHALL BE INSTALLED IN ALL COMPLETED DUCT SECTIONS, WITH A MINIMUM OF 10 FEET LEFT EXTENDING OUT EACH DUCT END. THE TAPE SHALL BE BLOWN INTO THE CONDUIT AFTER THE DUCT SECTION HAS BEEN COMPLETED AND THE CONDUIT CEMENT IS COMPLETELY DRY. DURING INSTALLATION, THE TAPE REEL SHOULD BE PLACED ON A PAYOUT STAND IN ORDER TO ALLOW THE TAPE TO PAY OUT FLATLY INTO THE DUCT IN A SINGLE CONTINUOUS PIECE. NEITHER KNOTS NOR FRAYS SHALL BE PERMITTED INSIDE A DUCT SECTION.

BEND REINFORCEMENT. HORIZONTAL AND VERTICAL BENDS THAT REQUIRE REINFORCEMENT FOR CABLE PULLING PURPOSES SHALL BE SO NOTED ON THE DRAWINGS AND SHALL BE STABILIZED BY MEANS OF CONCRETE ENCASEMENT (REF. SPEC 2).

BACKFILL MATERIAL. EXCEPT AS NOTED ON THE DRAWINGS AND SPECIFICATIONS, NATIVE SOIL FREE OF ROCK AND DEBRIS MAY BE USED AS BACKFILL MATERIAL UNLESS DISQUALIFIED BY THE COMPANY REPRESENTATIVE. THE SOIL SHALL PASS THROUGH A 2' SCREEN. ¾' MINUS LIMESTONE SCREENINGS MAY BE USED AS AN ALTERNATE TO SOIL WHEN BACKFILLING.

VOIDS AND FOREIGN MATTER. VOIDS AROUND THE CONDUIT(S) WHERE WATER CAN COLLECT SHALL BE AVOIDED. ANY CONDITIONS THAT PRODUCE CRUSHING PRESSURES ON THE DUCT ARE UNACCEPTABLE. TRENCHES SHALL BE KEPT CLEAR OF FOREIGN MATERIALS SUCH AS GREASE, HYDROCARBONS, WOOD, ROTTING VEGETATION, OR OTHER DEBRIS DURING THE BACKFILL PROCESS.

ALTERNATE BACKFILL MATERIALS. WHERE THE QUALITY OF THE EXCAVATED MATERIAL COULD DAMAGE THE INSTALLATION AND/OR PREVENT ADEQUATE COMPACTION (AS WITH SHALE, ROCK, PAVING MATERIALS, CINDERS, SHARPLY ANGLED OBJECTS, OR CORROSIVE MATERIALS), A GRANULAR BACKFILL OF SAND, ¾' MINUS LIMESTONE SCREENING, OR FLOWABLE FILL SHALL BE USED. IN SUCH CASES, THE BACKFILL MATERIAL SHALL BE PLACED COMPLETELY AROUND THE DUCTS IN ALL DIRECTIONS IN A THICKNESS OF AT LEAST 2'.

COMPACTION. IN UNDEVELOPED AREAS, THE BACKFILL SHALL BE COMPACTED TO PROVIDE FOR SUPPORTING A MAN'S WEIGHT AS THE TRENCH IS WALKED UPON. OTHERWISE, IN ESTABLISHED AREAS, COMPACTION SHALL BE OBTAINED WITH HAND OR MECHANICAL TAMPERS TO PROVIDE DENSITIES OF AT LEAST 90% OF THAT OF THE UNDISTURBED SOIL. HYDRO TAMPING METHODS ARE NOT ACCEPTABLE.

FINAL GRADE. THE BACKFILL MATERIAL SHALL BE PLACED BACK IN THE EXCAVATION AND COMPACTED AS NECESSARY IN APPROXIMATELY 18' LIFTS UNTIL FINAL GRADE IS RE-ESTABLISHED. THE DUCTS SHALL BE RESTRAINED TO PREVENT MOVEMENT, AS REQUIRED. NO ROCK SHALL BE PLACED IN THE BACKFILL WITHIN 6' ELEVATION OF THE TOPMOST DUCT.

BACKFILL SETTLEMENT. SETTLEMENT OF THE BACKFILL MATERIAL ABOVE THE DUCT(S) IS AN INDICATOR OF IMPROPER COMPACTION. WHENEVER REQUIRED, THE CUSTOMER/CONTRACTOR MUST RE-ESTABLISH FINAL GRADE BY PLACING ADDITIONAL BACKFILL OR BY OTHER MEANS AS APPROPRIATE.

AMEREN BORED CONDUIT NOTES (FROM POLE TO SWITCH):

COILABLE DUCT SPECIFICATION. THE COILABLE DUCT SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) IN SIZE OF 5' NOMINAL INSIDE DIAMETER, AS SPECIFIED ON THE DRAWINGS. THE COMPANY SPECIFIES THE FOLLOWING FOR COILABLE DUCT: 5' SDR-13.5 (0.413' MIN. WALL) PER ASTM D-1248.

DUCT MARKINGS. THE COILABLE DUCT SHALL BE BLACK WITH THREE UV-RESISTANT RED STRIPES EXTRUDED INTO THE OUTSIDE SURFACE. THE STRIPES SHALL HAVE A THICKNESS IN THE RANGE OF 10-15 MILS AND BE 3/16' TO 3/8' WIDE. THE STRIPES SHALL BE EVENLY SPACED AT 120° INTERVALS AROUND THE CIRCUMFERENCE OF THE DUCT.

BORING DEPTHS. COILABLE DUCT SHALL BE DIRECTIONALLY BORED AT STANDARD BURIAL DEPTHS OF 36' OF COVER FOR DUCTS HOUSING PRIMARY CABLES

DUCT JOINING. SECTIONS OF COILABLE DUCT SHALL BE JOINED USING FUSION COUPLINGS. WHERE THE COILABLE DUCT IS TO BE JOINED WITH COMPANY-INSTALLED PVC CONDUIT, THE CUSTOMER/CONTRACTOR IS TO FUSE A 24' STRAIGHT PIECE OF MATCHING SIZE PVC CONDUIT TO THE COILABLE DUCT. PRIOR TO FUSING, THE CUSTOMER/CONTRACTOR SHALL MAKE CIRCUMFERENTIAL SCORES AROUND THE OUTSIDE OF THE PVC CONDUIT AT THE END THAT IS TO BE INSTALLED INTO THE FUSION COUPLING. THIS WILL ALLOW THE FUSION COUPLING TO ADHERE TO THE DISSIMILAR PVC CONDUIT. A SPECIAL EPOXY IS ALSO AVAILABLE THAT JOINS THE COILABLE DUCT WITH STANDARD PVC COUPLINGS. THE CUSTOMER/CONTRACTOR SHALL CONFER WITH THE COMPANY REPRESENTATIVE WITH REGARD TO THIS EPOXY.

VERTICAL AND HORIZONTAL BENDS. ALL VERTICAL BENDS SHALL BE MADE USING SCHEDULE 40 PVC BENDS WITH BELLED OR COUPLED ENDS AS SPECIFIED IN SECTION 4. UNDER NO CIRCUMSTANCES SHALL A VERTICAL BEND BE FABRICATED BY 'SWEEPING IT UP TO GRADE USING THE GUIDED BORING MACHINE. THE VERTICAL BEND SHALL BE JOINED DIRECTLY TO A 36' STRAIGHT PIECE OF MATCHING SIZE PVC CONDUIT, WHICH IS INSTALLED TO TRANSITION BETWEEN THE BEND AND THE COILABLE DUCT. HORIZONTAL BENDS, HOWEVER, MAY BE SWEPT USING THE GUIDED BORING MACHINE. IN PLACES WHERE THE BEND RADIUS IS TOO SMALL FOR THIS, A PVC BEND SHALL BE INSTALLED BETWEEN TWO 36' STRAIGHT PVC TRANSITION SECTIONS.

CONNECTIONS INTO VAULTS AND MANHOLES. BORED COILABLE DUCT SHALL END 4-5 FROM A NEW VAULT OR MANHOLE. THIS COILABLE DUCT SHALL THEN BE TRANSITIONED TO THE SAME SIZE PVC BEFORE CONNECTING INTO THE STRUCTURE. THE TRANSITION TO PVC SHALL BE MADE USING THE TECHNIQUES DESCRIBED IN SECTION 5.3.4. IF THE VAULT OR MANHOLE ALREADY CONTAINS ENERGIZED COMPANYMAINTAINED CABLES, THE INSTALLATION, INCLUDING THE STRAIGHT PVC TRANSITION PIECE, SHALL STOP ROUGHLY 10 FROM THE STRUCTURE OR AT A LOCATION OTHERWISE DETERMINED BY THE COMPANY REPRESENTATIVE (REF. SECTION 5.4.7). THE COMPANY SHALL PICK UP THE INSTALLATION AT THIS POINT AND TIE IT INTO THE VAULT OR MANHOLE.

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
ANDREW T. GREENE
NUMBER PE-2010000443
PROFESSIONAL ENGINEER
7/8/2025

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/2025
DRAWN BY	ATG
CHECKED BY	ATG

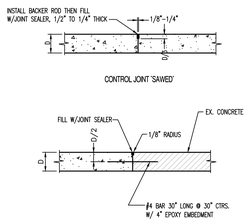
SHEET CONTENTS

SITE UTILITY PLAN

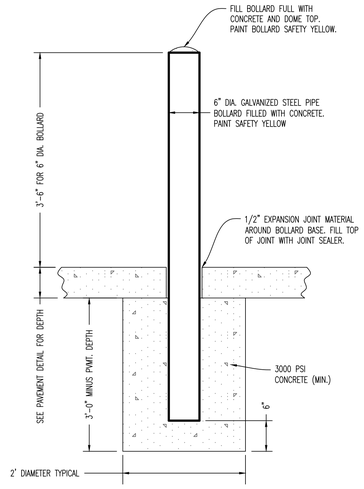
SHEET

C103

SSC JOB# 2024379 - BID SET 07/08/25

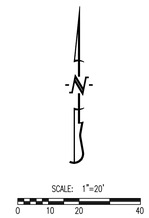


PRIVATE PAVEMENT JOINT DETAILS (P.C. CONCRETE PAVEMENT)



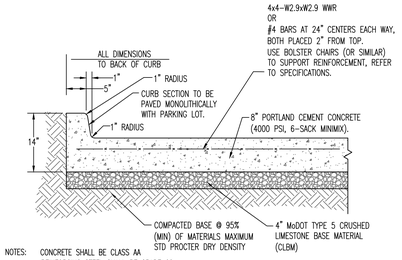
BOLLARD INSTALLATION DETAIL

LEGEND OF LABELS	
A	CONSTRUCT CONCRETE DRIVE PAVEMENT WITH INTEGRAL CURB WHERE SHOWN. REFER TO DETAIL ON THIS SHEET.
B	INSTALL NEW SIDEWALK ADJACENT TO BUILDING AS SHOWN. MATCH FINISHED FLOOR OF NEW DOORWAY OPENING INTO MECHANICAL ROOM AND SLOPE AWAY FROM THE DOOR. REFER TO GRADING PLAN FOR ELEVATIONS AND REFER TO DETAIL ON THIS SHEET.
C	INSTALL DOWELED CONSTRUCTION JOINT TO EXISTING PAVEMENT WITH SEALANT AS SHOWN. REFER TO JOINT DETAIL ON THIS SHEET.
D	INSTALL 1/2" EXPANSION JOINT BETWEEN PAVEMENT AND BUILDING. JOINT TO EXTEND THE FULL DEPTH OF THE PAVEMENT SECTION. PROVIDE WITH REMOVABLE CAULK STRIP AND PROVIDE ELASTOMERIC JOINT SEALANT WITH LIMESTONE COLOR.
E	INSTALL 6" THICK LANDSCAPING ROCK WITH WEED MAT AT NEW ROCK AREA. ROCK TO MATCH EXISTING.
F	INSTALL NEW PIPE BOLLARD. REFER TO DETAIL ON THIS SHEET.
G	EXISTING FUEL STORAGE TANK AND LIDS TO REMAIN. INTENT IS TO REPLACE PAVEMENT AROUND LIDS TO PROVIDE A SMOOTHER DRIVING SURFACE.



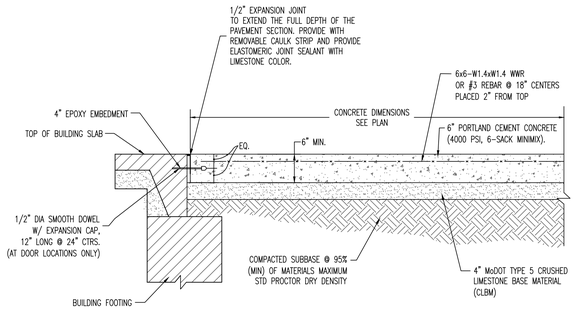
NOTES:

1. HARD SURFACE DIMENSIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. REMOVAL AND REPLACEMENT LIMITS SHALL BE TO NEAREST SAW JOINT IN PAVEMENT.
2. INSTALL TYPE C SAW JOINT WITH SEALANT IN NEW CONCRETE PAVEMENT. JOINTS SHALL BE INSTALLED IN 12'x12' PANELS WITHIN DRIVE AND IN THE SIDEWALK THEY SHALL MATCH THE SIDEWALK WIDTH. REFER TO JOINT DETAIL ON THIS SHEET.

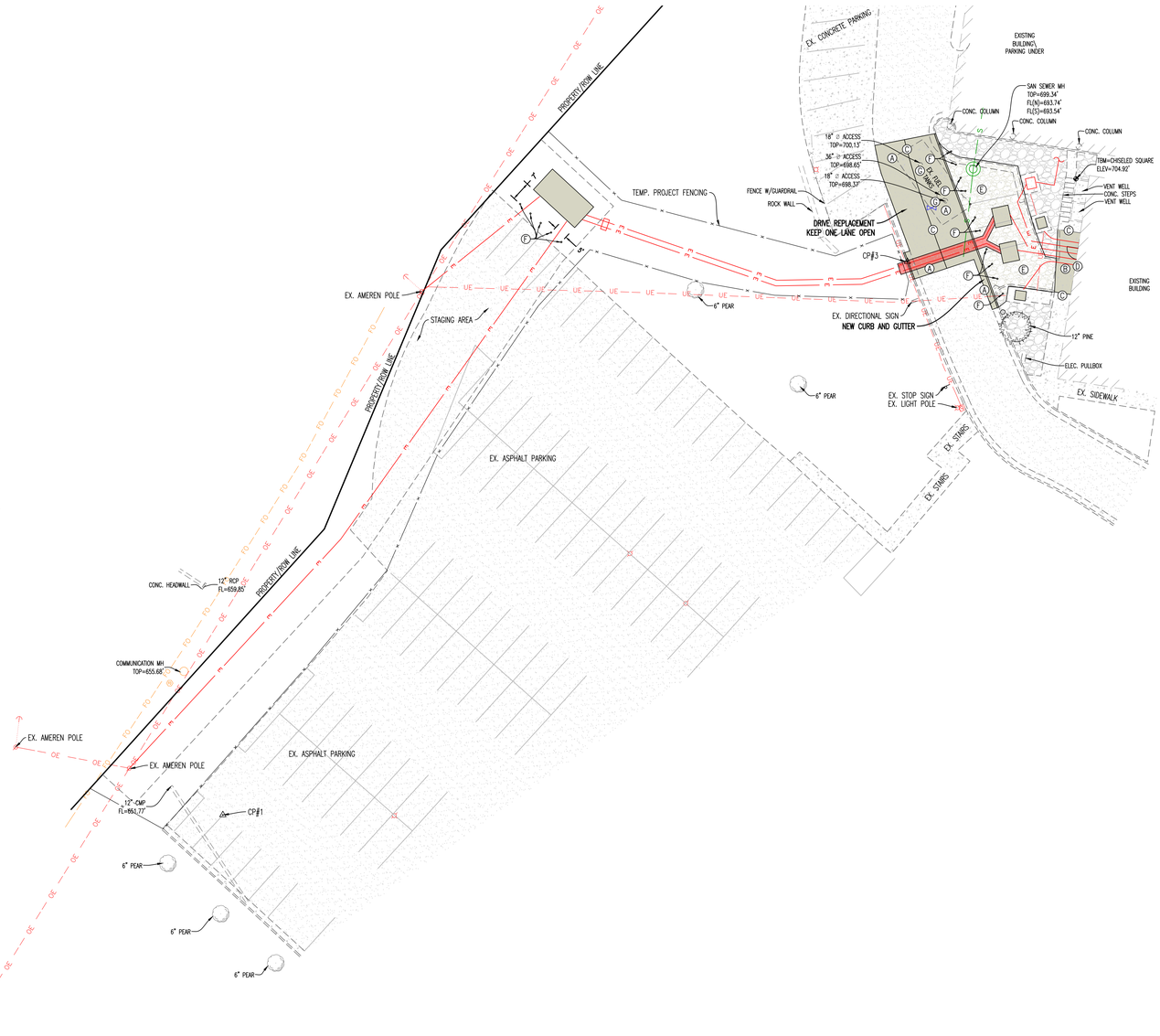


NOTES: CONCRETE SHALL BE CLASS AA
REINFORCING STEEL SHALL BE GRADE 60

CONCRETE PAVEMENT W/ INTEGRAL CURB (HEAVY DUTY)



CONCRETE SIDEWALK ADJACENT TO BUILDING



SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
ANDREW T. GREENE
NUMBER PE-2010000043
PROFESSIONAL ENGINEER
7/8/2025

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/2025
DRAWN BY	ATG
CHECKED BY	ATG

SHEET CONTENTS
SITE PLAN

SHEET
C104

SSC JOB# 2024379 - BID SET 07/08/25

GENERAL NOTES

TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MUTCD.

CONTRACTOR SHALL MAINTAIN A MINIMUM LANE WIDTH OF 12' AT ALL TIMES FOR ANY OPEN LANE OF TRAFFIC.

CONTRACTOR SHALL REFER TO THE CURRENT EDITION OF THE MODOT MANUAL OF TRAFFIC CONTROL FOR FIELD OPERATIONS FOR INFORMATION ON THE PROPER DEPLOYMENT OF TRAFFIC CONTROL DEVICES.

CONTRACTOR SHALL KEEP ALL ADJACENT DRIVEWAYS OPEN AT ALL TIMES.

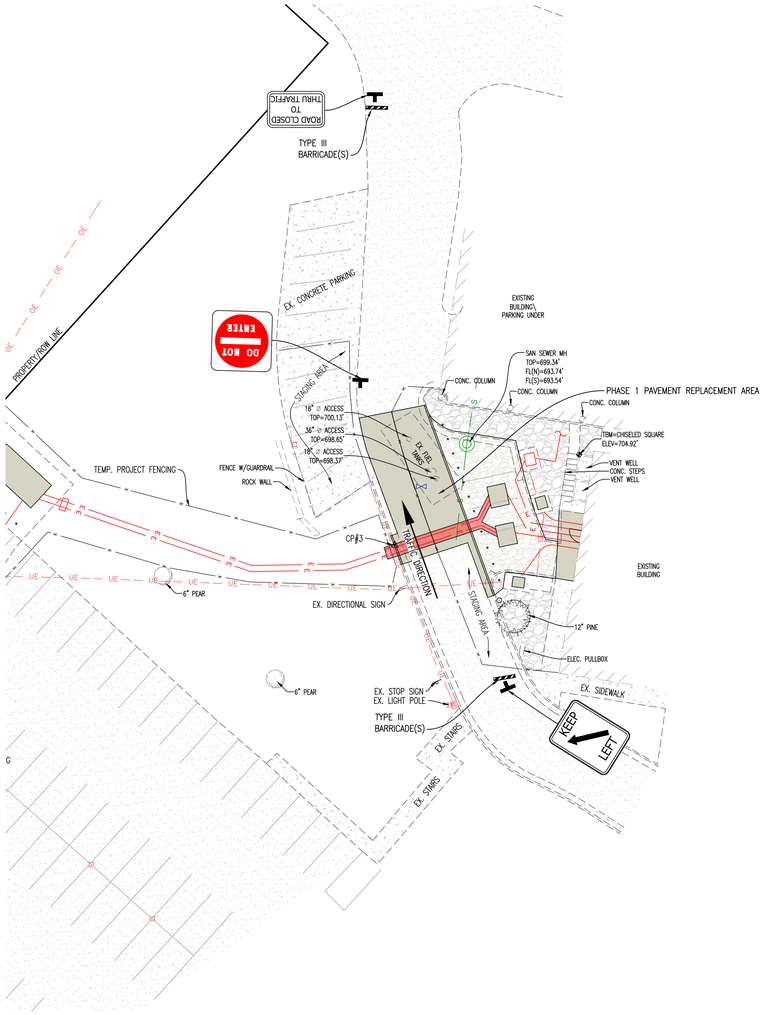
CONTRACTOR SHALL NOTIFY CITY OF COLUMBIA COMMUNITY PRIOR TO ANY CLOSURE MADE ACCORDING TO THIS PLAN. ALL TIMES FOR CLOSURE SHALL BE APPROVED BY THE CITY OF COLUMBIA PRIOR TO IMPLEMENTATION OF THIS PLAN.

CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE BSD RIGHT OF WAY TECHNICIAN (874-7474), IMMEDIATELY PRIOR TO CLOSURE OF STREET, DURING CONSTRUCTION FOR INSPECTIONS AND AGAIN WHEN WORK IS COMPLETE AND STREET IS REOPENED.

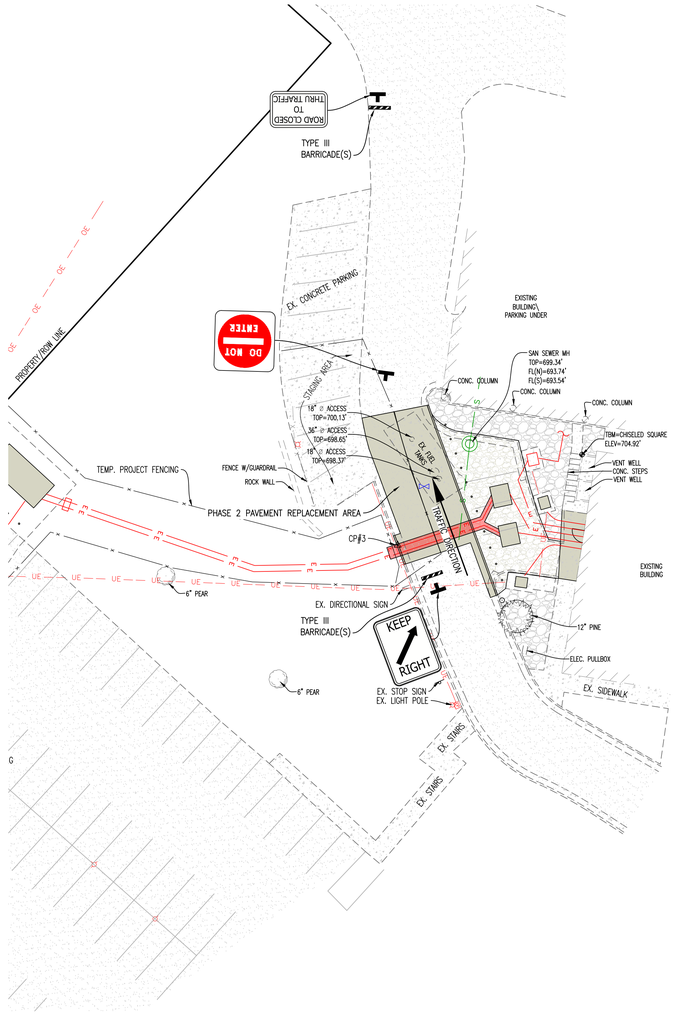
N

SCALE: 1"=20'

0 10 20 40



PHASE 1 PLAN



PHASE 2 PLAN

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
ANDREW T. GREENE
NUMBER PE-2010000043
PROFESSIONAL ENGINEER
7/8/2025

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/2025
DRAWN BY	ATG
CHECKED BY	ATG

SHEET CONTENTS

PHASING PLAN

SHEET

C105

SSC JOB# 2024379 - BID SET 07/08/25

GENERAL LANDSCAPE NOTES:

1. VEHICLES ARE TO USE DESIGNATED CONSTRUCTION ENTRANCES AS INDICATED ON DRAWINGS OR CONSTRUCTION DOCUMENTS. IF NO CONSTRUCTION ROUTE IS INDICATED VEHICLES ARE RESTRICTED TO PAVED AREAS. ALL CONSTRUCTION EQUIPMENT AND OR VEHICLES SHALL VERIFY THE WEIGHT LIMIT AND RESTRICTION ON PAVEMENT PRIOR TO CONSTRUCTION AND NOTIFY OWNERS REPRESENTATIVE OF THE PLANNED ROUTE.
2. THERE SHALL BE NO VEHICLE MOVEMENT IN ANY LANDSCAPED, SHRUB OR PERENNIAL AREAS, MULCH BED AND/OR TREE CANOPY DRIP AND ROOT ZONES, WITHOUT PRIOR MODIFICATIONS AND APPROVAL FROM LANDSCAPE SERVICES. LANDSCAPE SERVICES REQUIRES ONE WEEK NOTICE PRIOR TO ANY VEHICLE MOVEMENT IN THESE AREAS.
3. VEHICLE ACCESS SHALL NOT BREAK OR RUB TREE BRANCHES. OWNER WILL PRUNE TREE BRANCHES TO PROVIDE CLEARANCE AROUND BUILDING ENTRANCE. OWNER REQUIRES ONE WEEKS NOTICE FOR THIS WORK TO BE DONE.
4. DO NOT COMPACT GRADE WITHIN THE DRIP LINE OF TREES TO REMAIN. PROVIDE APPROVED FENCING TO PREVENT DRIVING OR EQUIPMENT PARKING WITHIN DRIP LINE OF TREES, PRIOR TO CONSTRUCTION OR WORK IN THE PROJECT AREA. MU'S CAMPUS STANDARD 6' CHAIN LINK FENCE AND POST SHALL BE USED UNLESS OTHERWISE NOTED AND/OR APPROVED BY OWNERS REPRESENTATIVE.
5. CONTRACTOR SHALL RIP THE SUB-SOIL TO A DEPTH OF 6" TO BREAK UP COMPACTION. CONTRACTOR SHALL THEN COMPACT THE SUB-SOIL TO 85% (IN NON-PAVED AREAS) OR 95% (IN PAVED AREAS) OF THE MATERIAL'S STANDARD PROCTOR DRY DENSITY.
6. FINAL 6" (IN YARD AREAS) OF TOP SOIL PLACEMENT AND SEED AND STRAW MULCH INSTALLATION BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL ADJUST EXISTING AND NEW YARD BOXES VALVE BOXES, PULL BOXES, CLEANOUTS, AND MANHOLE LID RINGS ETC. (INCLUDES IRRIGATION, SEWERS, WATER AND ELECTRIC), TO THE INDICATED FINAL FINISH GRADE WHERE NEW FINISHED GRADE ELEVATIONS ARE PROVIDED, INDICATED, OR OTHERWISE IMPLIED.
8. THE OWNER WILL WATER AND MAINTAIN ALL SEED AND LANDSCAPING.
9. IRRIGATION LINES AND VALVES MAY EXIST IN THE AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OF THE SYSTEM AS CAUSED BY CONSTRUCTION. WITHIN REASON AND WHEN POSSIBLE, THE NEW WORK SHALL BE INSTALLED TO AVOID LANDSCAPING COMPONENTS. IF AVOIDANCE IS NOT POSSIBLE, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, REPAIR AND/OR RE-INSTALLATION OF THE IRRIGATION AS REQUIRED TO COMPLETE THE WORK AS SHOWN AND TO LEAVE THE OWNER WITH AN IRRIGATION SYSTEM IN THE SAME CONDITION AS WHEN WORK BEGAN.
10. REFER TO DIVISION 1 SPECIFICATIONS – SPECIAL CONDITIONS FOR FURTHER INSTRUCTIONS.

GENERAL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURING ALL PHASES OF CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS SUBSTANTIALLY COMPLETE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADWAYS AND SIDEWALKS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
3. CONTRACTOR SHALL KEEP THE ENTIRE PROJECT SITE FREE OF DEBRIS AND TRASH AT ALL TIMES. CONTRACTOR SHALL EXECUTE WORK USING METHODS THAT MINIMIZE EXCESSIVE NOISE OR DUST EMISSIONS. CONTRACTOR SHALL PROVIDE METHODS, MEANS AND FACILITIES TO PREVENT CONTAMINATION OF SOIL OR WATER FROM DISCHARGE OF REGULATED MATERIALS (I.E., DIESEL FUEL) USED DURING CONSTRUCTION.
4. CONTRACTOR MUST INSTALL AND MAINTAIN THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN. IF THE ENGINEER, OWNER'S REPRESENTATIVE, DETERMINES THAT THE INSTALLATION OF THE MAINTENANCE IS INADEQUATE, THE CONTRACTOR MUST IMMEDIATELY CORRECT AT THEIR EXPENSE. IF IT IS DETERMINED THAT ADDITIONAL EROSION CONTROL MEASURES ARE NEEDED THE CONTRACTOR WILL BE DIRECTED TO INSTALL AND MAINTAIN THOSE MEASURES.
5. THE CONTRACTOR SHALL INSPECT THE LAND DISTURBANCE SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS FOLLOWING EACH RAINFALL EVENT OF 1/2" OR MORE WITHIN ANY TWENTY-FOUR (24) HOUR PERIOD. THE CONTRACTOR SHALL ALSO INSPECT AND ASSURE THAT ALL SEDIMENT CONTROL DEVICES ARE IN WORKING CONDITION PRIOR TO ANY FORECASTED RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM THE FLOW AREAS AND MAKE ALL NECESSARY REPAIRS TO MAINTAIN THE INTEGRITY OF THE SEDIMENT CONTROL MEASURES, SEDIMENT SHALL BE REMOVED ONCE IT REACHED ½ THE INSTALLED HEIGHT OF MEASURE.
7. SOME OF THE EROSION AND SEDIMENT CONTROL MEASURES, WILL REQUIRE THE CONTRACTOR TO INSTALL, REMOVE, AND REINSTALL THE MEASURES AS CONSTRUCTION PROCEEDS. THE PHASING OF THIS WORK IS DEPENDENT ENTIRELY ON THE CONTRACTOR'S SCHEDULE, AND IS NOT SPECIFIED HEREIN. HOWEVER, THE CONTRACTOR SHALL COORDINATE THESE ACTIONS WITH THE ENGINEER AT THE TIMES ADJUSTMENTS ARE NEEDED.
8. CONTRACTOR SHALL DIRECT CONCRETE TRUCKS TO WASHOUT AT PLANT.

LEGEND OF LABELS

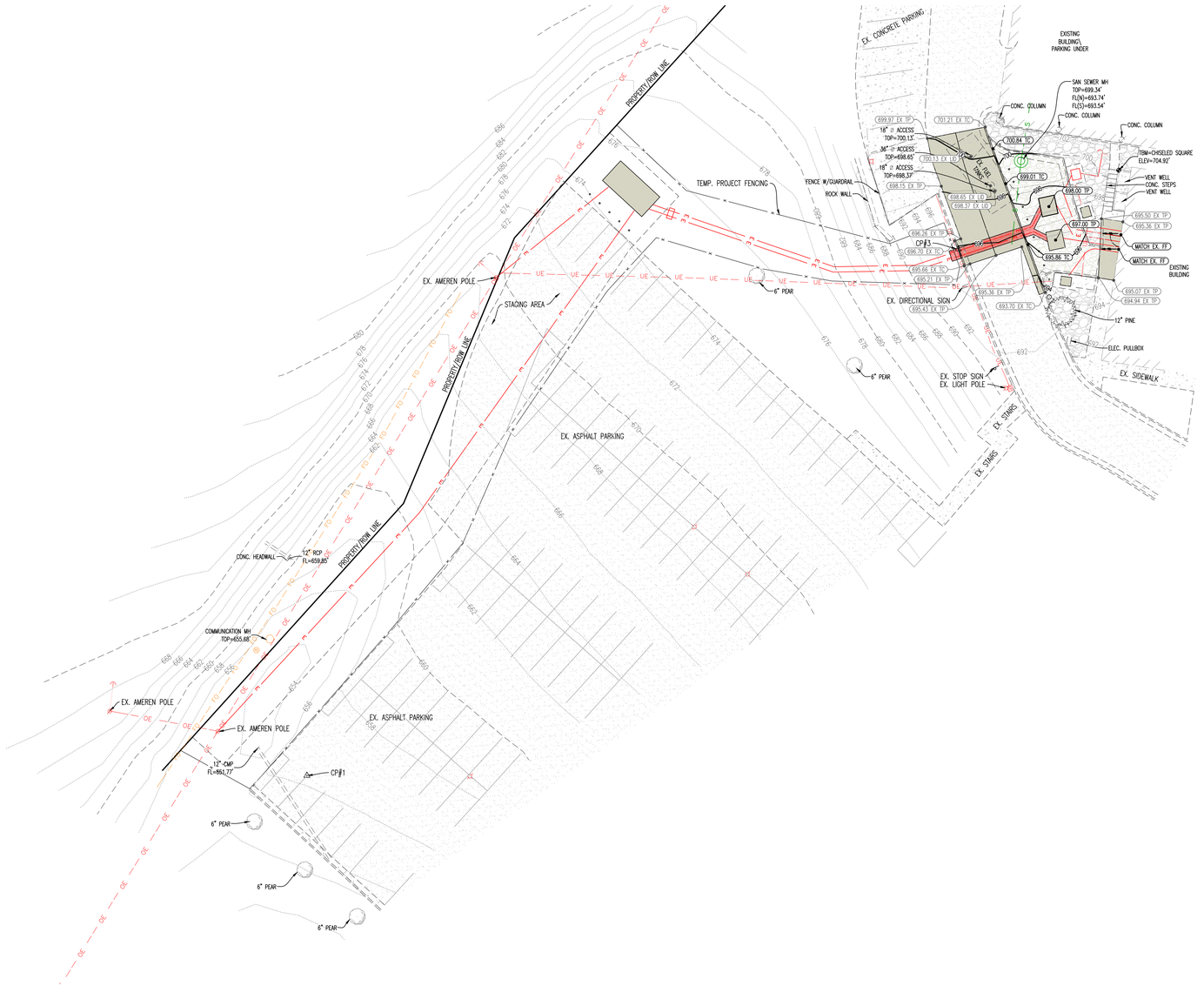
(A)	INSTALL SILT FENCE OR STRAW WADDLE (OR EQUAL) AS EROSION CONTROL DEVICE AS SHOWN. CONTRACTOR MAY REMOVE FOR SITE ACCESS, ENSURE MINIMAL SEDIMENT TRACKING ONTO PAVEMENT.
(B)	ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS, THAT ARE NOT TO BE PAVED, SHALL BE HAVE 6" OF TOPSOIL INSTALLED, FOLLOWED BY SEED AND STRAW MULCH BY THE CONTRACTOR, ALL PER SPECIFICATIONS.

LEGEND OF SYMBOLS:

- XXX — EXISTING MINOR CONTOUR
- XXX — EXISTING MAJOR CONTOUR
- XXX — PROPOSED MINOR CONTOUR
- XXX — PROPOSED MAJOR CONTOUR
- XXX.XX TC — PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
- XXX.XX TP — PROPOSED TOP OF PAVEMENT ELEVATION
- XXX.XX FG — PROPOSED FINISHED GRADE ELEVATION
- XXX.XX EX FG — EXISTING FINISHED GRADE ELEVATION
- XXX.XX EX TP — EXISTING TOP OF PAVEMENT ELEVATION
- XXX.XX EX TC — EXISTING TOP OF CURB ELEVATION
- DRAINAGE ARROW

N

SCALE: 1"=20'
0 10 20 40



SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
ANDREW T. GREENE
NUMBER PE-2010000443
PROFESSIONAL ENGINEER
7/8/2025

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/2025
DRAWN BY	ATG
CHECKED BY	ATG

SHEET CONTENTS
SITE GRADING PLAN

SHEET
C106

SSC JOB# 2024379 - BID SET 07/08/25

MECHANICAL SYMBOLS LEGEND

S1 / #	AIR DEVICE TAG CFM	S - SUPPLY R - RETURN E - EXHAUST X - EXISTING
AH2 / 1	EQUIPMENT IDENTIFICATION	
D	DRAIN	
RG	REFRIGERANT HOT GAS	
RL	REFRIGERANT LIQUID	
RS	REFRIGERANT SUCTION	
HWS	HOT WATER HEATING SUPPLY	
HWR	HOT WATER HEATING RETURN	
X	PIPE ANCHOR	
CA	COMPRESSED AIR	
G	NATURAL GAS	
LPG	LIQUID PROPANE GAS	
CWS	CHILLED WATER SUPPLY	
CWR	CHILLED WATER RETURN	
CHS	DUAL TEMPERATURE WATER SUPPLY	
CHR	DUAL TEMPERATURE WATER RETURN	
CS	CONDENSER WATER SUPPLY	
CR	CONDENSER WATER RETURN	
LPS	LOW PRESSURE STEAM	
MPS	MEDIUM PRESSURE STEAM	
HPS	HIGH PRESSURE STEAM	
LPC	LOW PRESSURE CONDENSATE	
MPC	MEDIUM PRESSURE CONDENSATE	
HPC	HIGH PRESSURE CONDENSATE	
PD	STEAM CONDENSATE PUMPED DISCHARGE	
LWS	LOOP WATER SUPPLY	
LWR	LOOP WATER RETURN	
P	PNEUMATIC TUBING	
E	ELECTRICAL WIRING	
	DEMO PIPE OR EQUIPMENT	
	POINT OF CONNECTION NEW TO EXISTING	
	OPPOSED BLADE DAMPER	
H	HUMIDISTAT	
T	THERMOSTAT	
DD SD	SMOKE DETECTOR (DUCT)	
FS	FLOW SWITCH	
DPS	DIFFERENTIAL PRESSURE SWITCH	
PS	PRESSURE SWITCH	
X' - X"	BOTTOM OF DUCT ELEVATION	
24 X 12 OR 24 X 12	RECTANGULAR DUCT (FIRST NUMBER IS SURFACE SHOWN-DIMENSIONS REPRESENT OUTSIDE SHEETMETAL)	
12"Ø OR 12"Ø	ROUND DUCT	
	RECTANGULAR TO ROUND TRANSITION	
18x12 12x12 / 18x12 12x12	TRANSITION	
	DUCT WITH LINER	
R D	INCLINED RISE (R) OR DROP (D) ARROW IN DIRECTION OF CHANGE	
	FLEXIBLE DUCT CONNECTION	
	SUPPLY AIR UP OR IN SECTION	
	RETURN,EXHAUST OR OUTSIDE AIR UP OR IN SECTION	
	SUPPLY AIR DOWN OR AWAY	
	RETURN,EXHAUST OR OUTSIDE AIR DOWN OR AWAY	
	RECTANGULAR ELBOW WITH TURNING VANES	
	VOLUME DAMPER	
M	MOTORIZED DAMPER	
	FIRE DAMPER/SMOKE DAMPER/COMB. FIRE SMOKE DAMPER	

MECHANICAL SYMBOLS LEGEND (CONT.)

	ROUND TAP WITH DAMPER (BOTTOM)
	CEILING MOUNTED, SQUARE SUPPLY AIR DIFFUSER 4-WAY UNLESS OTHERWISE INDICATED (ARROW INDICATES DIRECTION OF THROW)
	CEILING MOUNTED RETURN AIR GRILLE
	SIDEWALL RETURN GRILLE
	SIDEWALL SUPPLY DIFFUSER
	SUPPLY AIR SLOT DIFFUSER
	RECTANGULAR TAP WITH DAMPER (BOTTOM)
	ROUND DUCT SUPPLY UP, DN OR IN SECTION
	ROUND DUCT RETURN UP, DN OR IN SECTION
	PIPE DOWN
	PIPE UP
	TOP CONNECTION
	BOTTOM CONNECTION
	FLOW DIRECTION
	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	THERMOWELL
	PRESSURE GAUGE
	MANIFOLD GAUGE
	THERMOMETER
	CAPPED OUTLET (UP)
	DIRT LEG (DN)
	UNION
	PIPE GUIDE
T	STEAM TRAP
EJ	EXPANSION JOINT
	REDUCER
	BASKET STRAINER
	SUCTION DIFFUSER
	STRAINER
	GATE VALVE
	BALL VALVE
	TRIPLE DUTY VALVE
	BUTTERFLY VALVE
PR	PRESSURE REDUCING VALVE
	CHECK VALVE
	GAS COCK
	BALANCING VALVE (FLOW CONTROL VALVE)
	RPBP - REDUCED PRESSURE BACKFLOW PREVENTER
	DRAIN VALVE W/HOSE THREADED CONN.
	PRESSURE RELIEF VALVE
	3-WAY AUTOMATIC CONTROL VALVE
	2-WAY AUTOMATIC CONTROL VALVE
M	MOTORIZED VALVE
	ANGLE VALVE
SV	SOLENOID VALVE
	THERMAL EXPANSION VALVE
	TEMPERATURE/PRESSURE TEST PLUG

MECHANICAL ABBREVIATIONS

ACC	AIR COOLED CONDENSER
AC	AIR CONDITIONING UNIT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP(IN WC)
AS	AIR SEPARATOR
ASJ	ALL SERVICE JACKET
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	AIR BLENDER
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNITS
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BW	BACKWATER VALVE
CAP	CAPACITY
CC	CENTER TO CENTER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
D	DRAIN
DIA	DIAMETER
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DDU	DUAL DUCT UNIT
DISC	DISCONNECT
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
DSD	DUCT SMOKE DETECTOR SUPPLY
DSR	DUCT SMOKE DETECTOR RETURN
DX	DIRECT EXPANSION
E-#	EXHAUST AIR DEVICE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EFF	EFFICIENCY
ET	EXPANSION TANK
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EC	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ESV	EMERGENCY SHUT-OFF VALVE
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
EXH	EXHAUST
FA	FRESH AIR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FH	FLOOR HYDRANT
FDR	FILTER DRIER
FIN	FINISH
FLR	FLOOR
FM	FACTORY MOUNTED
FPM	FEET PER MINUTE
FT	FEET
FURN	FURNISHED
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
FTU	FAN TERMINAL UNIT
GAL	GALLONS
GALV	GALVANIZED
GI	GREASE INTERCEPTOR
GC	GENERAL CONTRACTOR
GUH	GALLON PER MINUTE
GPM	GAS UNIT HEATER
GWH	GAS WATER HEATER
CW	COLD WATER
HB	HOSE BIBB
HD	HUB DRAIN
HR	HOUR
HP	HORSEPOWER
IE	INVERT ELEVATION
IN	INCHES
INST	INSTALLED
IRH	INFRA-RED HEATER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LRA	LOCKED ROTOR AMPS
LPG	LIQUID PROPANE GAS
LWCO	LOW WATER CUT-OFF
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CURRENT AMPS
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MOP SERVICE BASIN
MV	MIXING VALVE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NO.	NUMBER
NF	NON-FUSED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OED	OPEN END DUCT
OV	OUTLET VELOCITY
P	PUMP
PC	PLUMBING CONTRACTOR
POC	POINT OF CONNECTION
PIB	POWER INDUCTION BOX
PD	PRESSURE DROP
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
R-#	RETURN AIR DEVICE
RD	ROOF DRAIN
RF	RELIEF FAN
RPM	REVOLUTIONS PER MINUTE
RP	RECIRCULATING PUMP
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RTU	ROOF TOP UNIT
RV	RELIEF VALVE
S-#	SUPPLY AIR DEVICE
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF	SUPPLY FAN
SW	SWITCH
STL	STEEL
SG	SIGHT GLASS
SP	STATIC PRESSURE
SPC	SPRINKLER CONTRACTOR
SV	SOLENOID VALVE
TC	TEMPERATURE CONTROLLER
TCC	TEMPERATURE CONTROLS CONTRACTOR
TDV	TRIPLE DUTY VALVE
T	TRANSFER GRILLE
TF	TRANSFER FAN
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TXV	THERMAL EXPANSION VALVE
UH	UNIT HEATER (HYDRONIC)
UR	URINAL
V	VENT
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
WB	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP(FT. H20)
W.C.	WATER COLUMN
ZD	ZONE DAMPER

MECHANICAL GENERAL DEMOLITION NOTES:

1. SEE SHEET M0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. THESE GENERAL NOTES APPLY TO ALL DEMOLITION WORK.
3. KEYED NOTES ON PLANS WITH MATCH LINES ARE THE SAME ON BOTH SIDES OF MATCH LINES. KEYED NOTES MAY NOT BE USED ON BOTH SIDE OF THE MATCH LINE.
4. REMOVE DUCTS AND EQUIPMENT SHOWN CROSS HATCHED OR DASHED.
5. CONTRACTOR SHALL USE CAUTION WHEN REMOVING DUCTS TO AVOID DAMAGE TO ELECTRICAL WIRING THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO DUCTWORK.
6. WHEREVER EXISTING EQUIPMENT, PIPING, DUCTS, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES.
7. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
8. THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
9. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP AND SPRINKLER DEMOLITION PLANS FOR MEP AND SPRINKLER DEMOLITION.
10. THE OWNER WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACMs (ASBESTOS CONTAINING MATERIALS, PCBs OR OTHER HAZARDOUS MATERIALS) PRESENTLY EXISTING WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE. THAT WOULD BE REQUIRED TO BE REMOVED FOR THE WORK. ABATEMENT WORK, IF REQUIRED, IS NOT PART OF THIS CONTRACT.
11. REMOVE AND REPLACE CEILING TILES AS NEEDED TO PERFORM THE WORK INDICATED ON THE PLANS. REPLACE ANY DAMAGED TILES WITH NEW TILES THAT MATCH THE EXISTING CEILING. NOTIFY OWNER OF ANY EXISTING CEILING TILES THAT ARE ALREADY DAMAGED PRIOR TO THE START OF WORK.

MECHANICAL GENERAL RENOVATION NOTES:

1. SEE SHEET M0.1 FOR SYMBOLS AND ABBREVIATIONS.
2. THESE GENERAL NOTES APPLY TO ALL WORK.
3. KEYED NOTES ON PLANS WITH MATCH LINES ARE THE SAME ON BOTH SIDES OF MATCH LINES. KEYED NOTES MAY NOT BE USED ON BOTH SIDE OF THE MATCH LINE.
4. DUCT SIZES SHOWN ARE SHEET METAL SIZE AND INCLUDE THE DUCT LINER WHERE LINER IS REQUIRED.
5. ALL SUPPLY, RETURN, EXHAUST, AND TRANSFER REGISTERS IN ROOMS WITHOUT CEILINGS SHALL BE 9'-0" AFF UNLESS NOTED OTHERWISE.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING AIR DEVICES.
7. PIPING ON PLANS IS SHOWN FOR GENERAL ARRANGEMENT. SEE DETAILS FOR CONNECTIONS TO UNITS.
8. IF PIPE SIZES ON PLANS CONFLICT WITH SIZES SHOWN ON FLOW DIAGRAMS, SIZES ON FLOW DIAGRAMS SHALL TAKE PRECEDENCE.
9. TRANSITION FROM DUCT SIZES SHOWN TO EQUIPMENT CONNECTION SIZE AS REQUIRED.
10. MAINTAIN 25'-0" MINIMUM BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
11. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT THE INSTALLATION OF CONDUITS, PIPING, LIGHTING, OR OTHER OBSTRUCTIONS UNDER OR ADJACENT TO HVAC EQUIPMENT THAT OBSTRUCTS ACCESS TO COILS, MOTORS, VALVES, FILTERS, ETC., OR OTHER HVAC COMPONENTS NEEDING MAINTENANCE OR OPERATIONS ACCESS.
12. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 8'-0".
13. THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 4'-0" TO THE TOP OF THE JUNCTION BOX THAT THE DEVICE IS MOUNTED ON.
14. COORDINATE DUCTWORK WITH ALL MECHANICAL, SPRINKLER AND PLUMBING PIPING BEFORE COMMENCEMENT OF WORK.
15. LOCATIONS OF NEW EQUIPMENT, DUCTWORK, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ELEVATION OF ALL WORK. PROVIDE OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE SYSTEM.
16. NO CHANGES IN CONTRACT PRICE WILL BE ALLOWED FOR MINOR CHANGES IN LAYOUT OR LOCATION REQUIRED TO AVOID INTERFERENCES, OBSTRUCTIONS, ETC. CONTRACT PRICE CHANGES WILL BE CONSIDERED ONLY FOR CHANGES IN THE SCOPE OF THE PROJECT REQUIREMENTS. ALL SUCH SCOPE CHANGES AND PRICE REVISIONS MUST BE AUTHORIZED IN WRITING. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
17. ALL UTILITIES SERVING EXISTING AREAS SHALL REMAIN IN SERVICE AT ALL TIMES EXCEPT FOR SHORT PERIODS OF INTERRUPTION FOR TIE IN OF NEW SERVICES TO EXISTING. ALL INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND SHALL NOT BE SCHEDULED UNTIL NEW SERVICES ARE COMPLETE AND READY FOR FINAL CONNECTION.
18. REMOVE AND REPLACE CEILING TILES AS NEEDED TO PERFORM THE WORK INDICATED ON THE PLANS. REPLACE ANY DAMAGED TILES WITH NEW TILES THAT MATCH THE EXISTING CEILING. NOTIFY OWNER OF ANY EXISTING CEILING TILES THAT ARE ALREADY DAMAGED PRIOR TO THE START OF WORK.
19. WHERE INSULATION CONTAINING HAZARDOUS MATERIALS HAS BEEN REMOVED FROM DUCTWORK, PIPING, OR EQUIPMENT, REPLACE IT WITH NEW INSULATION. SEE SPECIFICATIONS FOR TYPE AND THICKNESS.
20. PROVIDE AN ISOMETRIC DRAWING FOR ALL REFRIGERANT PIPING. SHOW PIPE SIZES AND LENGTHS. REFRIGERATION UNIT MANUFACTURER SHALL SIGN OFF ON THE PIPING CONFIGURATION AND SIZING.

DUCTLESS SPLIT SYSTEM SCHEDULE

TYPE	MARK	MANUFACTURER	INDOOR MODEL	OUTDOOR MODEL	CFM (HIGH)	TOTAL (MBH)	AMBIENT (°F)	REFRIGERANT	V/PH	REMARKS
DS	1	MITSUBISHI	MSZ-GX15NL	CU-1	590	14	95/-5	R-454B	208/1	ALL

1 PROVIDE WITH CONDENSATE PUMP. PUMP SHALL BE POWERED BY INDOOR UNIT.
2 CONDENSATE OVERFLOW SWITCH SHALL SHUT UNIT OFF.
3 SIZE REFRIGERANT PIPING ACCORDING TO MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
4 UNIT SHALL BE MOUNTED AT 8FT AFF.
5 LOW AMBIENT TEMPERATURE DOWN TO 0 DEG F.
6 FIELD INSTALLED TO PROVIDE DISCONNECT SWITCH.
7 INDOOR UNIT SHALL BE POWERED BY OUTDOOR UNIT.
8 UNIT SHALL UTILIZE A REMOTE THERMOSTAT.
9 EQUAL BY DAIKIN WITH ADDED TEMPERATURE SENSOR NEAR THERMOSTAT INTEGRATED INTO EXISTING TRANE BAS.

CONDENSING UNIT SCHEDULE

					COOLING			HEATING		ELECTRICAL			
TYPE	MARK	MANUFACTURER	MODEL	SERVES	TOTAL (MBH)	AMBIENT (°F)	REFRIGERANT	TOTAL (MBH)	AMBIENT (°F)	V/PH	MCA	MOCP	REMARKS
CU	1	MITSUBISHI	MUZ-GX15	DS-1	14	95	R-32	12	-5	208/1	16.0	28	ALL

1 UNIT SHALL BE ANCHORED TO CURB RAILS AND CONRETE PAD.
2 CONDENSING UNIT MANUFACTURER SHALL VERIFY EXACT LENGTHS AND SIZE OF REFRIGERANT PIPING.
3 FIELD INSTALLED DISCONNECT SWITCH.
4 METAL HAIL GUARDS
5 PROVIDE WITH WIND BAFFLE FOR LOW AMBIENT COOLING.
6 MOUNT UNIT ON CURB OR EQUIPMENT RAILS, MIN 14".
7 MANUFACTURER RECOMMENDED BREAKER SIZE OF 20A.

ANCHORAGE & SWAY BRACING - MECHANICAL SYSTEM COMPONENTS

SEISMIC USE GROUP (IV)					SEISMIC DESIGN CATEGORY (D)		SEISMIC DESIGN CATEGORY (D)	
LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS	COMMENTS
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION	SHOP DRAWINGS	SEPARATE PERMIT & PLANS	
CONDENSING UNIT	-	X	X	-	-	X	-	1
PIPING - HYDRONIC	-	X	-	X	-	X	-	1

1 UNDER DEFERRED SUBMITTALS, SUBMIT SIGNED/SEALED DETAILS AND CALCULATIONS FOR SEISMIC BRACING. SEE SECTION 20080

MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M-001	MECHANICAL SCHEDULES, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES
M-002	MECHANICAL DETAILS
MD-101	MECHANICAL BASEMENT DUCTWORK PLAN - DEMO
MD-201	MECHANICAL BASEMENT PIPING PLAN - DEMO
M-101	MECHANICAL BASEMENT DUCTWORK PLAN - RENO
M-201	MECHANICAL BASEMENT PIPING PLAN - RENO

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

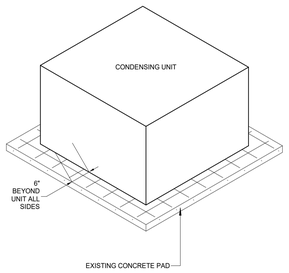
SHEET CONTENTS

MECHANICAL SCHEDULES, SYMBOLS, ABBREVIATIONS, & GENERAL NOTES

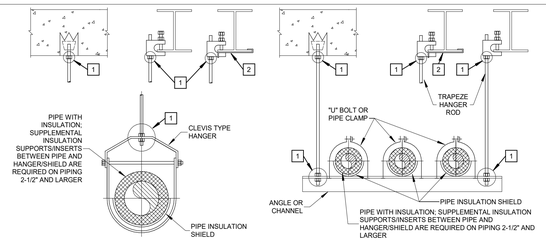
SHEET

M-001

SSC JOB# 2024379 - BID SET 07/08/25

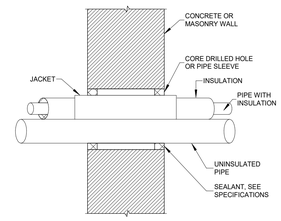


1 CONCRETE PAD DETAIL
NOT TO SCALE

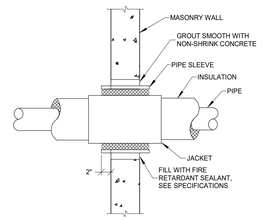


1. PROVIDE DOUBLE LOCK NUT ON THREADED ROD TO CARRY PIPE HANGERS. WHERE THREADED ROD SCREWS INTO UPPER ATTACHMENT, PROVIDE LOCK NUT.
2. RETAINING CLIP REQUIRED IN SEISMIC RESTRAINED AREAS.
3. HANGERS THAT ARE PART OF A SEISMIC RESTRAINT SHALL BE INSTALLED IN CONTACT WITH THE PIPE; THE INSULATION SHALL BE CARRIED OVER THE HANGER AND SEALED.

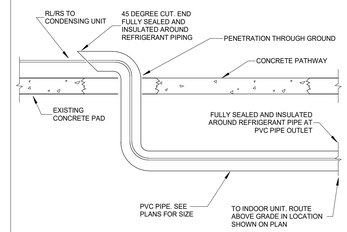
2 CLEVIS AND TRAPEZE HANGER PIPE SUPPORT
NOT TO SCALE



3 PIPING THROUGH NON-RATED MASONRY WALL
NOT TO SCALE



4 PIPING THROUGH RATED MASONRY WALL
NOT TO SCALE



5 REFRIGERANT PIPING BELOW GRADE DETAIL
NOT TO SCALE

NOTES:
1. LEVEL TOP OF CURB(S) TO WITHIN TOLERANCES ALLOWED BY MANUFACTURER OF SUPPORTED EQUIPMENT.
2. CONCRETE ANCHOR MINIMUM 2 PER SIDE. MAXIMUM 12" ON CENTERS.

6 CURB RAIL DETAIL
NOT TO SCALE

NOTES:
1. REMOVE FUSIBLE LINK AND TEST DAMPER FOR CORRECT OPERATION AFTER INSTALLATION.
2. FIRE WALL CONSTRUCTION VARIES. THIS CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR OF FIRE DAMPER OPENING SIZE AND LOCATION TO INSURE THAT PROPER OPENING FRAMING IS PROVIDED.
3. THE MINIMUM SLEEVE GAGE SHALL BE 16 GAGE GALVANIZED FOR DAMPERS WITH DIMENSIONS NOT EXCEEDING 24" IN HEIGHT OR 36" IN WIDTH, AND 14 GAGE FOR LARGER SIZES.
4. COMPLETED INSTALLATION SHALL BE IN COMPLIANCE WITH U.L. AND WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
5. ATTACH DUCT TO FIRE DAMPER WITH A BREAKAWAY SLIP JOINT, OR DUCTMATE TYPE FLANGE WITHOUT BOLTS.

7 FIRE DAMPER - TYPE B - HORIZONTAL OR VERTICAL
NOT TO SCALE

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lbullawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS
MECHANICAL DETAILS

SHEET
M-002

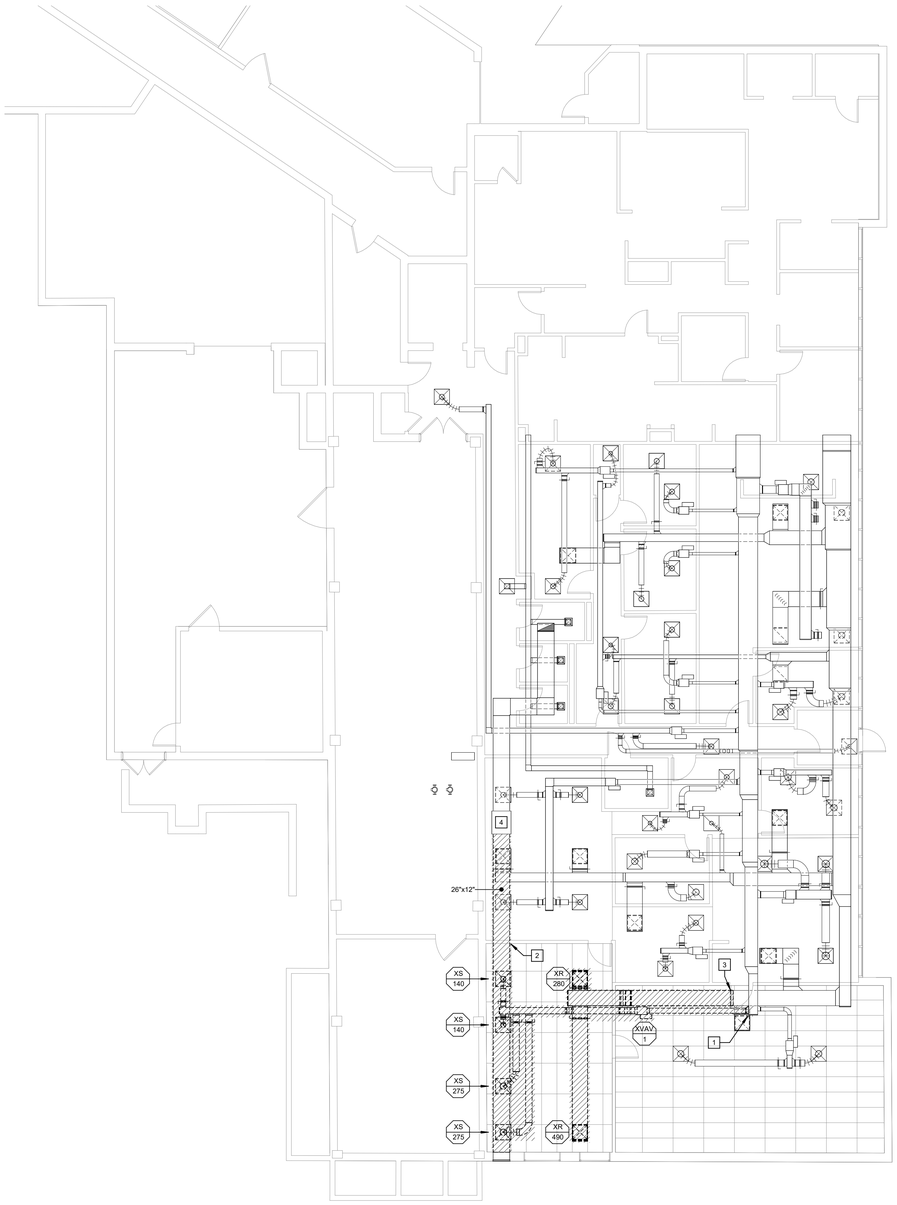
SSC JOB# 2024379 - BID SET 07/08/25

GENERAL NOTES:

1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

KEYED NOTES:

1. DEMOLISH EXISTING VAV TERMINAL UNIT AND ASSOCIATED DUCTWORK BACK TO LOCATION SHOWN AND CAP.
2. DEMOLISH EXHAUST DUCTWORK BACK TO EXISTING EXHAUST FAN OR BACKDRAFT DAMPER (IF APPLICABLE). EXISTING LOUVER TO REMAIN. FIRE DAMPER TO BE ADDED AT PENETRATION DURING RENOVATION.
3. DEMOLISH RETURN DUCT BACK TO LOCATION SHOWN AND CAP.
4. TAKE PRETAB MEASUREMENTS OF EXHAUST FAN PRIOR TO DEMOLITION OF DUCTWORK. EXHAUST FAN TO REMAIN.



MECHANICAL BASEMENT DUCTWORK PLAN - DEMO
SCALE: 1/8" = 1'-0"
NORTH

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS

MECHANICAL BASEMENT DUCTWORK PLAN - DEMO

SHEET

MD-101

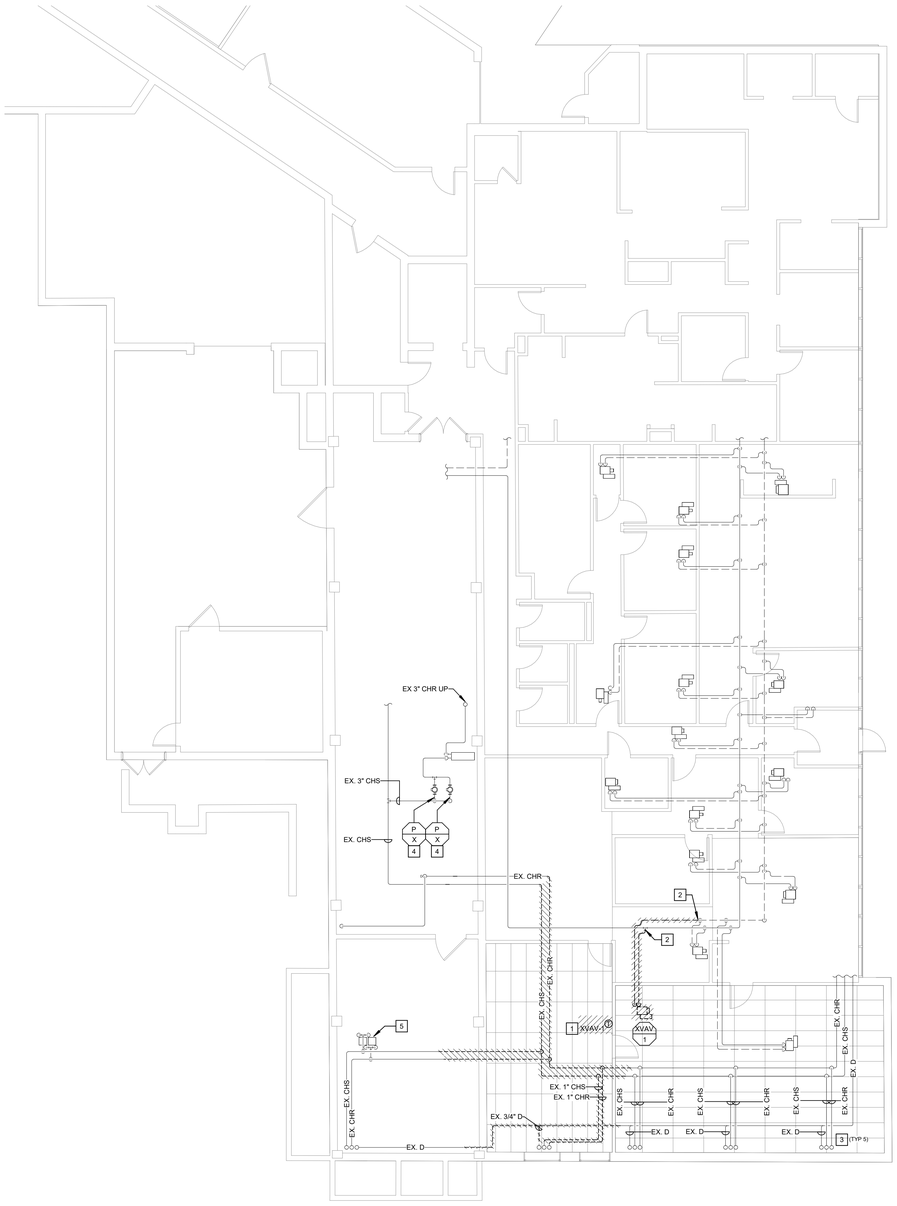
SSC JOB# 2024379 - BID SET 07/08/25

GENERAL NOTES:

1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

KEYED NOTES:

1. DEMOLISH EXISTING THERMOSTAT AND ASSOCIATED WIRING. COORDINATE WITH GC TO PATCH WALL.
2. DEMOLISH EXISTING HWS/HWR PIPING BACK TO POINT SHOWN AND CAP. SHUTDOWN TO BE PERFORMED AFTER NORMAL WORKING HOURS.
3. EXISTING 1" CHS/CHR AND 3/4" DRAIN PIPING UP TO CONSOLE ON FLOOR ABOVE. VERIFY EXISTING PIPING SIZE PRIOR TO ANY WORK. TAKE PRETAB MEASUREMENTS OF WATER FLOW RATE AT EACH CONSOLE UNIT PRIOR TO ANY WORK.
4. EXISTING DUAL TEMP SYSTEM PUMPS. VERIFY ALL EQUIPMENT SUPPLIED BY THIS LOOP AND COORDINATE SHUTDOWN WITH HOSPITAL. SHUTDOWN TO BE PERFORMED AFTER NORMAL WORKING HOURS.
5. EXISTING UNIT HEATERS TO REMAIN.



MECHANICAL BASEMENT PIPING PLAN - DEMO
SCALE: 1/8" = 1'-0"
NORTH

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lkdlawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS

MECHANICAL BASEMENT PIPING PLAN - DEMO

SHEET

MD-201

SSC JOB# 2024379 - BID SET 07/08/25

GENERAL NOTES:

1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

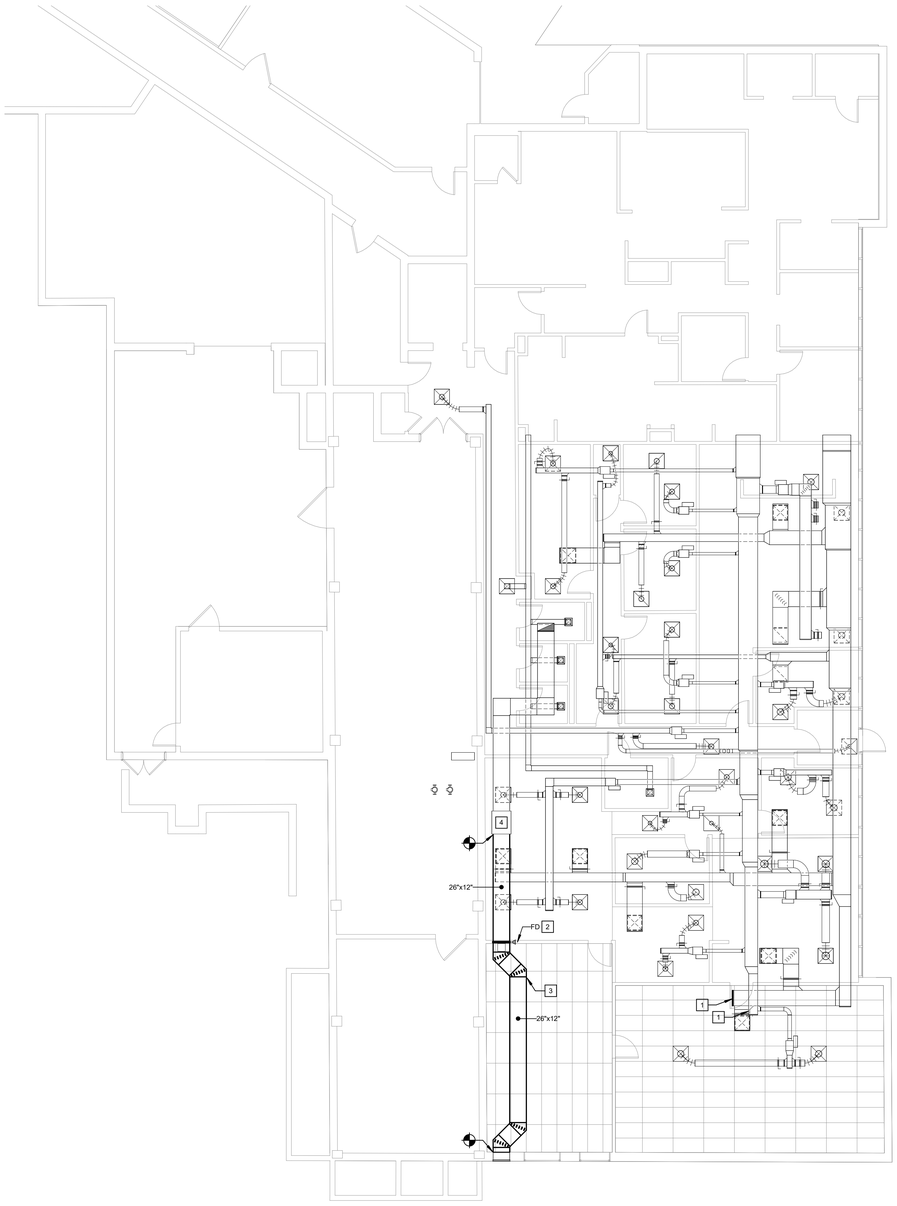
KEYED NOTES:

1 CAP DUCT AT LOCATION SHOWN.

2 NEW 1.5 HOUR RATED FIRE DAMPER TO BE ADDED AT PENETRATION PER DETAIL.

3 NEW EXHAUST DUCTWORK FROM EXISTING EXHAUST FAN TO EXISTING LOUVER. NEW DUCTWORK SHALL BE INSULATED. SEE SPECIFICATIONS. DUCTWORK SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS.

4 REBALANCE EXHAUST FAN BACK TO EXISTING AIRFLOW FROM PRETAB MEASUREMENTS.



MECHANICAL BASEMENT DUCTWORK PLAN - RENO
SCALE: 1/8" = 1'-0"
NORTH

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO. 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT
ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS

MECHANICAL BASEMENT DUCTWORK PLAN - RENO

SHEET

M-101

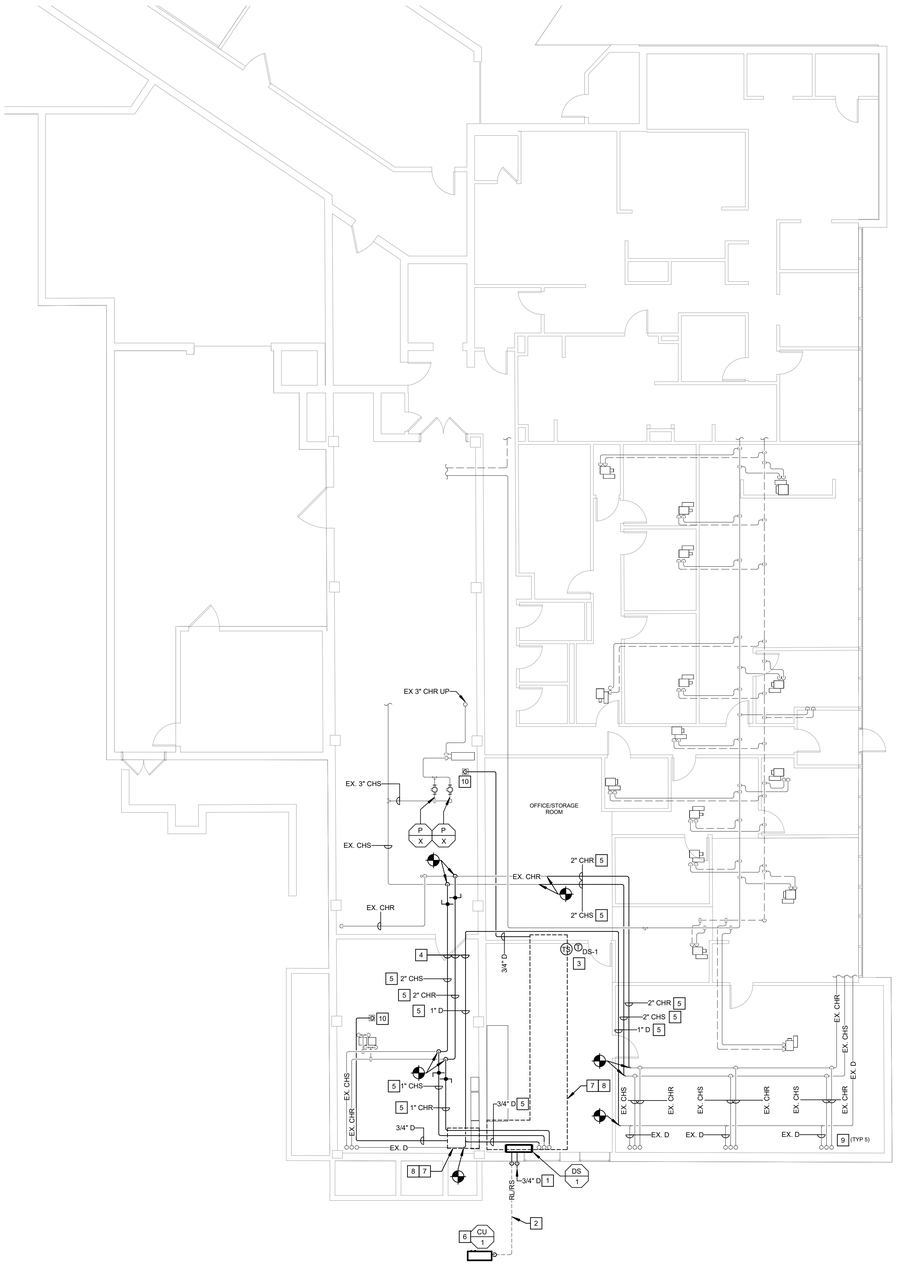
SSC JOB# 2024379 - BID SET 07/08/25

GENERAL NOTES:

1. REFER TO SHEET M-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.

KEYED NOTES:

1. REFRIGERANT AND CONDENSATE DRAIN PIPE ROUTED DOWN EXTERIOR WALL. ROUTE CONDENSATE PIPE TO GRADE. TERMINATE >6" ABOVE GRADE.
2. ROUTE REFRIGERANT PIPES THROUGH GROUND UNDERNEATH CONCRETE SLEEVED IN TWO (2) PVC PIPES. SIZE AS NEEDED. SEE DETAIL. SEE MANUFACTURER'S SPECIFICATIONS FOR REFRIGERANT PIPE SIZES.
3. IF NECESSARY, PROVIDE NEW DDC TEMPERATURE SENSOR NEAR THERMOSTAT AND INTEGRATE INTO EXISTING HOSPITAL TRANE BAS CONTROLS.
4. ROUTE NEW DUAL TEMPERATURE PIPING OVER EXISTING CONCRETE PLATFORM AND UNDERNEATH EXISTING CONDUIT.
5. VERIFY EXISTING PIPE SIZE PRIOR TO PERFORMING WORK. PIPE SIZE SHALL REMAIN THE SAME AS EXISTING.
6. LOCATE CONDENSING UNIT ON EXISTING CONCRETE PAD. SEE CIVIL PLANS. INSTALL ON EQUIPMENT RAILS AND ANCHOR TO CONCRETE SLAB.
7. NEW DRIP TRAY BELOW NEW AND EXISTING PIPE ROUTED OVER ELECTRICAL PANELS. COORDINATE WITH PLUMBING.
8. PROVIDE LIEBERT LT410 OR SIMILAR LEAK DETECTION SENSORS WITH RELAYS TIED INTO HOSPITAL TRANE BAS SYSTEM. COORDINATE WITH E.C.
9. TAKE TAB MEASUREMENTS OF WATER FLOW RATE AT EACH CONSOLE UNIT AFTER COMPLETING RENOVATION WORK. RESULTS SHALL BE WITHIN 10% OF PRE-TAB MEASUREMENTS.
10. DRIP PAN DRAIN PIPES ROUTED TO EXISTING FLOOR DRAINS SHOWN. SLOPE PER SPECIFICATIONS.



MECHANICAL BASEMENT PIPING PLAN - RENO
SCALE: 1/8" = 1'-0"
NORTH

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS

MECHANICAL BASEMENT PIPING PLAN - RENO

SHEET

M-201

SSC JOB# 2024379 - BID SET 07/08/25

ELECTRICAL SYMBOLS LEGEND

LIGHTING FIXTURES

AA3	LUMINAIRE - CEILING MOUNTED, ALPHA-NUMERIC DESIGNATION DENOTES TYPE; SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION.
882	LUMINAIRE - AS ABOVE - WALL MOUNTED 84" AFF (U.N.O).
C1	LED,FLUORESCENT OR H.I.D. FIXTURE - AS ABOVE - CEILING MOUNTED OR PENDANT MOUNTED TO HEIGHT INDICATED.
D1	WALL MOUNTED FIXTURE - AS ABOVE - MOUNTING HEIGHT AS PER PLANS.
	EXIT LIGHT - CEILING MOUNTED; WALL MOUNT 7'-6" AFF OR ABOVE DOOR SHADED PORTION INDICATES FACE; WITH DIRECTIONAL ARROW(S) AS INDICATED. FIXTURE TYPE "X" (U.N.O.).
	COMBINATION EXIT LIGHT WITH EMERGENCY LIGHTING HEADS. FIXTURE TYPE "X1" (U.N.O.).
	EMERGENCY LIGHT - BATTERY OPERATED - WALL MOUNTED 84" AFF (U.N.O.). FIXTURE TYPE "Y" (U.N.O.).
	BOLLARD FIXTURE.
	LIGHT POLE WITH SINGLE HEAD LUMINAIRE.
	LIGHT POLE WITH MULTIPLE HEADS (AS INDICATED).
	SHADING DENOTES EMERGENCY FIXTURE.
1a,b NL	FIXTURE CIRCUITRY NOTATION: 1 - CIRCUIT NUMBER TO WHICH FIXTURE IS CONNECTED a,b - LETTER(S) OF SWITCH(ES) CONTROLLING FIXTURE NL - NIGHT LIGHT (UNSWITCHED CIRCUIT)

WIRING DEVICES

S^{1}	SINGLE POLE SWITCH - "a" INDICATES SWITCH LEG - MOUNT 46" AFF.
S^{3}	THREE-WAY SWITCH - AS ABOVE.
S^{LV}	LOW VOLTAGE / DIGITAL SWITCH; MULTIPLE BUTTONS AND SCENES AS PER PLANS - MOUNT 46" AFF.
S^{M}	MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION - MOUNT ON SIDE OF UNIT OR AT 46" AFF.
S^{OS}	OCCUPANCY SENSOR WALL MOUNTED, MOUNT 46" AFF. "2" INDICATES DUAL RELAY.
S^{D}	DIMMER SWITCH - AS ABOVE, 1000 WATT RATING OR 0-10V AS REQUIRED. MOUNT 46" A.F.F.
PC	PHOTOCELL MOUNTED IN WP OUTLET BOX LOCATED ON ROOF, FACING NORTH, (U.N.O.).
LC	LIGHTING CONTACTOR FOR NUMBER OF CIRCUITS AS INDICATED ON PLAN.
OS	OCCUPANCY SENSOR, CEILING MOUNTED, "2" INDICATES 2 POLE.
J	JUNCTION BOX OR POINT OF CONNECTION - MOUNT 18" AFF OR AT HEIGHT REQUIRED BY RESPECTIVE EQUIPMENT ITEM MANUFACTURER.
	DUPLEX RECEPTACLE - MOUNT 18" AFF.
	DOUBLE DUPLEX RECEPTACLE - AS ABOVE.
	SINGLE CONVENIENCE RECEPTACLE - AS ABOVE.
	DUPLEX RECEPTACLE AS ABOVE - SPLIT WIRED, TOP HALF SWITCHED.
	DUPLEX 8" ABOVE COUNTER OR WALL HUNG LAVATORY.
	DOUBLE DUPLEX RECEPTACLE 8" ABOVE COUNTER
	CEILING MOUNTED DUPLEX RECEPTACLE, FLUSH IN CEILING (U.N.O.).
	SPECIAL PURPOSE OUTLET - MOUNT 18" AFF, TYPE AS REQUIRED BY RESPECTIVE EQUIPMENT MFR.
X X	RECEPTACLE - AS ABOVE. X = TYPE INDICATED (SEE ABBREVIATIONS)
X X	RECEPTACLE ABOVE COUNTER - AS ABOVE. X = TYPE INDICATED (SEE ABBREVIATIONS)
	COMBINATION POWER & DATA/VOICE FLOOR BOX OR POKE THRU - "FF" INDICATES FURNITURE FEED.

MOTORS AND EQUIPMENT

30/20/3	DISCONNECT SWITCH (FUSED OR NON-FUSED AS INDICATED) - MOUNT 60" AFF. 30/20/3 INDICATES SWITCH AMPS/FUSE AMPS/POLES.
	MOTOR STARTER, NEMA SIZE TO SUIT EQUIPMENT SERVED, WITH HAND-OFF-AUTO SELECTOR SWITCH,
	COMBINATION MOTOR STARTER, AS ABOVE AND DISCONNECT SWITCH.
VFD	VARIABLE FREQUENCY DRIVE FOR EQUIPMENT ITEM INDICATED ON PLAN.
	MULTIPLE PUSH BUTTONS - MOUNT 46" AFF, AS INDICATED (U.N.O.).
	ELECTRIC MOTOR.
	BRANCH CIRCUIT PANELBOARD - MOUNT TOP 78" AFF.
	SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER.
T	DRY-TYPE TRANSFORMER.
	KILOWATT HOUR METER BASE.

FIRE ALARM SYSTEM

FACP	FIRE ALARM CONTROL PANEL - MOUNT TOP 72" AFF. PROVIDE TWO (2) DATA DROPS.
FAAP	FIRE ALARM ANNUNCIATOR PANEL - MOUNT TOP 72" AFF.
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAPS	FIRE ALARM POWER SUPPLY - MOUNTED 72" A.F.F.
F	MANUAL PULL STATION - MOUNT 46" AFF.
SD	SMOKE DETECTOR - CEILING MOUNTED.
SD SS	SINGLE STATION SMOKE ALARM - CEILING MOUNTED - "CO" INDICATES COMBINATION CARBON MONOXIDE ALARM
DD SD	DUCT MOUNTED SMOKE DETECTOR WITH SAMPLING TUBES.
F A	DUCT MOUNTED SMOKE DETECTOR'S REMOTE ANNUNCIATOR LAMP AND TEST SWITCH-MOUNT ON CEILING,
H	HEAT DETECTOR - CEILING MOUNTED (U.N.O.).
CO	CARBON MONOXIDE DETECTOR - CEILING MOUNTED.
F 15	VISUAL FLASHER - MOUNT 80" AFF TO BOTTOM OF FLASHER; (NUMERALS INDICATE CANDELA).
F V 30	HORN OR SPEAKER - MOUNT 80" AFF; V DENOTES COMBINATION AUDIBLE/VISUAL APPLIANCE. (NUMERALS INDICATE CANDELA).
F	VISUAL FLASHER - CEILING MOUNTED; (NUMERALS INDICATE CANDELA). FINISH TO MATCH CEILING.
F V 30	HORN OR SPEAKER - CEILING MOUNTED; V DENOTES COMBINATION AUDIBLE/VISUAL APPLIANCE. (NUMERALS INDICATE CANDELA). FINISH TO MATCH CEILING.
F CM	CONTROL MODULE FOR CODE REQUIRED ACTION; SEE SPECIFICATION.
F MM	MONITOR MODULE FOR CODE REQUIRED ACTION, OR AS NOTED ON PLANS; SEE SPECIFICATION.

MISCELLANEOUS

XXX X.X	MECHANICAL EQUIPMENT ITEM IDENTIFICATION PER EQUIPMENT SCHEDULE ON MECHANICAL DRAWINGS.
#	MISCELLANEOUS EQUIPMENT NUMBER. SEE MISCELLANEOUS EQUIPMENT SCHEDULE.

AUXILIARY SYSTEMS

IC	INTERCOM STATION - MOUNT 46" AFF.
•	PUSHBUTTON - MOUNT 46" AFF.
▽	VOICE OUTLET - MOUNT 18" AFF; W INDICATES WALL MOUNT PHONE PLATE AT 46" AFF.
▼	DATA OUTLET - MOUNT 18" AFF.
▼	DATA OUTLET - 8" ABOVE COUNTER.
▼	FLOOR MOUNTED DATA OUTLET.
▼	COMBINATION VOICE & DATA OUTLET - MOUNT 18" AFF.
▼	COMBINATION VOICE & DATA OUTLET - 8" ABOVE COUNTER.
▼	FLOOR MOUNTED COMBINATION VOICE & DATA OUTLET.
▼	WIRELESS ACCESS POINT - CEILING MOUNTED, U.N.O.
TTB	TELEPHONE TERMINAL BOARD - 3/4" FIRE RETARDANT PLYWOOD, 4' x 8' (U.N.O.).
TV	T.V. OUTLET (COAXIAL) - MOUNT 18" AFF U.N.O.
CL	CLOCK OUTLET - MOUNT 78" AFF U.N.O.
GAP	GENERATOR ANNUNCIATOR PANEL.

ONE-LINE DIAGRAMS

	TRANSFORMER
	PANEL (1 OR 2 SECTIONS AS INDICATED)
30AS 20AF	FUSIBLE SWITCH: 30 = AMPERE RATING "AS" INDICATES AMP SWITCH FUSE: (20) = AMPERE RATING "AF" INDICATES AMP FUSE
#AF #AT	MOLDED CASE CIRCUIT BREAKER - "AF" INDICATES AMP FRAME "AT" INDICATES AMP TRIP
#AF #AT	CIRCUIT BREAKER, DRAWOUT TYPE - AS ABOVE
W M	KILOWATT HOUR/UTILITY METER
ST	SHUNT TRIP
AFMS	ARC FLASH MAINTENANCE SWITCH
GFP	GROUND FAULT PROTECTION
	AUTOMATIC TRANSFER SWITCH
W M	KILOWATT HOUR/UTILITY METER
SPD	SURGE PROTECTIVE DEVICE - MOUNT DIRECTLY ADJACENT TO PROTECTED PANEL
0	MOTOR STARTER, SINGLE SPEED, 0 = STARTER SIZE
VFD	VARIABLE FREQUENCY DRIVE
KK	KIRK KEY INTERLOCK

SECURITY SYSTEM

C	DOOR CONTACT
CR	CARD READER/PROX READER
RQE	REQUEST TO EXIT
ES	ELECTRIC STRIKE (FURNISHED BY DIVISION 8)
EH	ELECTRIFIED HARDWARE (FURNISHED BY DIVISION 8)
ML	MAGNETIC LOCK (FURNISHED BY DIVISION 8)
GB	GLASS BREAK SENSOR
	VIDEO SURVEILLANCE CAMERA; MULTI-LENS AS SHOWN ON PLANS.

ABBREVIATIONS

AC	ABOVE COUNTER
AIC	AMP INTERRUPTING CURRENT
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR.
AFI/AFCI	ARC FAULT CIRCUIT INTERRUPTER TYPE DEVICE, (U.N.O.)
ATS	AUTOMATIC TRANSFER SWITCH
CATV	CABLE TELEVISION
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR CONTRACTOR
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER; ROUGH-IN RECEPTACLE INCONSPICUOUSLY; COORDINATE WITH PC
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FSS	FUSIBLE SAFETY SWITCH
GC	GENERAL CONTRACTOR
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, (U.N.O.)
H.I.D.	HIGH INTENSITY DISCHARGE
IG	ISOLATED GROUND TYPE DEVICE
KEC	KITCHEN EQUIPMENT CONTRACTOR
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MH	MOUNTING HEIGHT
MIN	MINIMUM
NF	NON-FUSED SWITCH
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
TP	TAMPER PROOF TYPE DEVICE
TCC	TEMPERATURE CONTROL CONTRACTOR
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHERPROOF

GENERAL DEMOLITION NOTES:

1. THE OWNER INTENDS TO OCCUPY THE BUILDING THROUGHOUT CONSTRUCTION. UTILITIES AND SERVICES SHALL NOT BE INTERRUPTED WITHOUT THE OWNER'S APPROVAL AS TO THE TIME AND DURATION. THE CONTRACTOR SHALL SO ORGANIZE THEIR WORK AS TO CAUSE A MINIMUM OF UTILITY INTERRUPTIONS, WHICH SHALL BE SCHEDULED AT THE CONVENIENCE OF THE OWNER.
2. ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SPECIAL OUTLETS, ETC., WHICH ARE NOTED TO BE DEMOLISHED, OR ARE SHOWN WITH DASHED LINE SYMBOLS ON THE DEMOLITION PLANS, SHALL BE REMOVED. ASSOCIATED WIRING AND CONDUIT SHALL BE REMOVED BACK TO THE SOURCE OR EXISTING UPSTREAM DEVICE TO REMAIN AND MADE SAFE.
3. REMOVE EQUIPMENT, FIXTURES, DEVICES AND OUTLETS AS SPECIFIED AND SHOWN ON DRAWINGS, AND AS MAY BECOME NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. EXAMINE ALL EXISTING WALLS AND CEILING DESIGNATED FOR REMOVAL TO DETERMINE THE CONDUIT AND WIRING THAT WILL REQUIRE REMOVAL.
4. FOR EXISTING ELECTRICAL DEVICES IN WALLS TO BE REMOVED, DISCONNECT POWER, REMOVE CONDUCTORS AND CAP CONDUIT BELOW FLOOR OR ABOVE CEILING AS REQUIRED. DEVICES ARE TO BE REMOVED ALONG WITH WALL BY GENERAL CONTRACTOR.
5. FOR EXISTING ELECTRICAL EQUIPMENT, FIXTURES AND DEVICES TO BE REMOVED FROM WALLS WHICH REMAIN, DISCONNECT POWER, REMOVE CONDUCTORS, REMOVE THE ELECTRICAL ITEM, AND PATCH AND FINISH THE SURFACE AS REQUIRED TO MATCH THE EXISTING, OR MAKE READY FOR NEW WALL FINISH. PROVIDE BLANK PLATES WHERE NOTED OR REQUIRED.
6. EXISTING RECEPTACLES, DEVICES, ETC. TO REMAIN ARE DENOTED BY THIN SOLID LINE OR MAY NOT BE INDICATED AT ALL. THESE DEVICES SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH ON EXISTING WALL WHERE REQUIRED.
7. MAINTAIN CIRCUIT CONTINUITY TO ALL EQUIPMENT, FIXTURES, DEVICES, ETC., TO REMAIN IN USE WHETHER NOTED ON THE PLANS OR NOT. FIELD VERIFY EXISTING ITEMS TO REMAIN IN USE. WIRING FOR EXISTING CIRCUITS WHICH ARE PARTIALLY ABANDONED SHALL BE RECONNECTED BY THE ELECTRICAL CONTRACTOR TO SERVICE THE REMAINING OUTLETS ON THE CIRCUIT.
8. ALL WIRING FOR A CIRCUIT WHICH IS TO BE REMOVED SHALL BE REMOVED BACK TO THE PANEL WHICH SUPPLIED THE CIRCUIT.
9. EXISTING CONDUIT & CONDUCTORS MAY BE REUSED WHERE FEASIBLE. ALL UNUSED CONDUIT MADE EMPTY BY THIS DEMOLITION SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR. WHERE CONDUITS EXTENDING OUT OF THE FLOOR ARE TO BE REMOVED, CUT THE CONDUIT OFF 1/2" BELOW THE FLOOR LINE AND PATCH.
10. ALL ACTIVE CIRCUITING THAT RUNS THROUGH THIS SPACE, ORIGINATING AND/OR TERMINATING IN OTHER SPACES, SHALL REMAIN IN PLACE. COORDINATE WITH NEW CEILING WORK FOR RAISED CEILING WHICH MAY REQUIRE CIRCUITING RELOCATION.
11. ALL UNUSED TELEPHONE AND DATA CABLES SHALL BE REMOVED. ANY OTHER UNUSED LOW VOLTAGE SYSTEMS CABLES SHALL ALSO BE REMOVED.
12. ALL EXISTING EQUIPMENT, LIGHTING FIXTURES, WIRING DEVICES, AND MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION, UNLESS OTHERWISE NOTED. ALL ITEMS NOTED THAT THE OWNER CHOOSES TO KEEP SHALL BE TRANSFERRED TO THEIR STORAGE AREA BY THE ELECTRICAL CONTRACTOR.
13. FOR ALL EXISTING ELECTRICAL WIRING DEVICES, TELEPHONE, DATA ETC., CONTRACTOR SHALL REMOVE/REINSTALL COVERPLATES AS REQUIRED TO ALLOW FOR NEW FINISHES.
14. INFORMATION ON THE EXISTING CONDITIONS PLANS ARE COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT, WIRING DEVICES AND FIXTURES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

OUTAGE COORDINATION:

REFER TO ELECTRICAL PHASING SEQUENCES AND ELECTRICAL OUTAGE SCHEDULE COORDINATION ON SHEETS E-005 AND E-019.

GENERAL CONSTRUCTION NOTES:

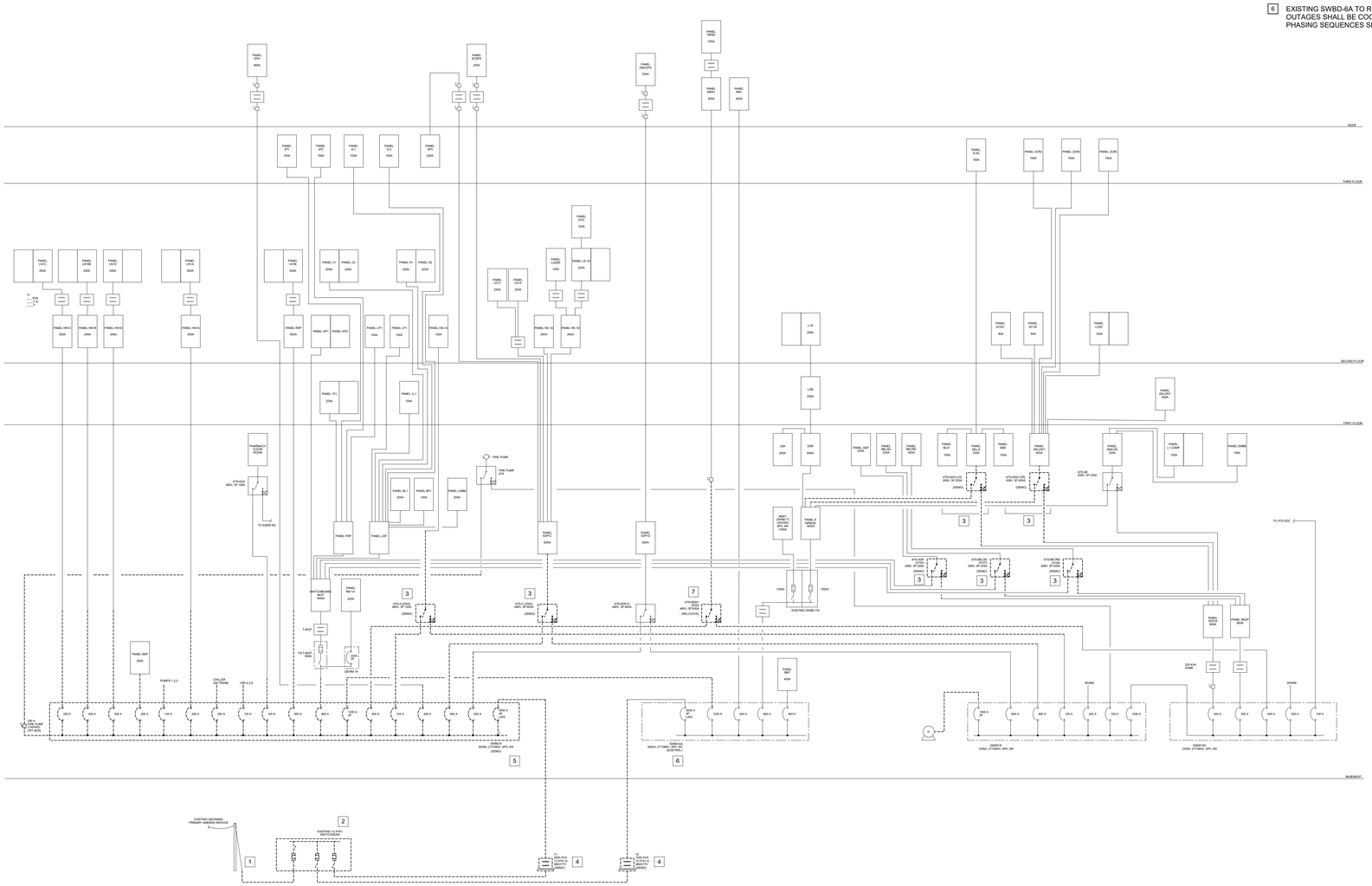
1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY PERMITS, LICENSES, INSPECTIONS AND FEES FROM THE LOCAL AUTHORITIES. CONTRACTOR SHALL BE LICENSED BY LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION..
2. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC) AND OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
3. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
4. THE ENTIRE ELECTRICAL SYSTEM AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND AS SHOWN ON THE DRAWINGS. PROVIDE A GROUND WIRE IN EACH POWER CONDUIT, SIZED PER THE NEC.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND DISCIPLINES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS. COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ON THE PLANS WITH THE OWNER, ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS.
7. CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL INSTALLED OR FURNISHED UNDER THIS CONTRACT FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING.
8. MAINTAIN AND VERIFY ELECTRICAL EQUIPMENT CLEARANCES AND WORKING SPACE PER NEC.
9. PROVIDE ELECTRICAL SYSTEMS IDENTIFICATION AS INDICATED IN THE SPECIFICATIONS AND REQUIRED BY THE NEC OR NFPA 70E.
10. IF ANYTHING ON THE PLANS IS NOT IN COMPLIANCE WITH NATIONAL, STATE OR LOCAL CODES, THE ENGINEER SHALL BE ADVISED BY THE ELECTRICAL CONTRACTOR DURING THE BIDDING PROCESS. THERE ARE TO BE NO CHANGES TO THE CONTRACT DOCUMENTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS FOR NEW WORK, SAFETY, ETC., IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION. (I.E. OSHA, NEC, ETC.)
12. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR PHASING AND SCHEDULING OF THIS PROJECT. COORDINATE WITH OWNER'S FIELD REPRESENTATIVE.
13. VERIFY ALL INDICATED DIMENSIONS BY FIELD MEASUREMENTS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
14. PROVIDE ACCESS PANELS OR DOORS WHERE EQUIPMENT OR DEVICES REQUIRED TO BE ACCESSIBLE ARE CONCEALED BEHIND INACCESSIBLE SURFACES.
15. PRIOR TO TURNOVER, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH, DIRT, DEBRIS AND STAINS ON THEIR WORK OR CAUSED BY THEIR WORK AND SHALL THOROUGHLY CLEAN ALL EQUIPMENT, FIXTURES, DEVICES, ETC. CONTRACTOR SHALL REPLACE, TOUCH-UP OR REFINISH THE FACTORY FINISH ON EQUIPMENT, FIXTURES, DEVICES, ETC. MARRED DURING SHIPMENT, INSTALLATION OR CONSTRUCTION.
16. PANELBOARD CIRCUIT BREAKERS SHALL BE EQUIPPED WITH BOLT-ON TYPE BREAKERS, PHENOLIC NAME TAGS AND KEYED LOCK AND LATCH. EACH PANEL SHALL BE PROVIDED WITH TWO KEYS WITH ALL PANELS KEYED ALIKE. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE TYPE SWD SHALL BE APPROVED FOR THE PURPOSE. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR TYPE.
17. ALL CIRCUITS INDICATED ON THESE DRAWINGS ARE 20A, 1P CIRCUIT BREAKERS IN PANELS UNLESS NOTED OTHERWISE.
18. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANELBOARD SHALL BE EQUIPPED WITH A TYPE WRITTEN CIRCUIT DIRECTORY. ALL EXISTING PANELBOARDS THAT HAVE CIRCUITS ALTERED SHALL HAVE A NEW TYPE WRITTEN CIRCUIT DIRECTORY SHOWING CIRCUIT REVISIONS AND EXISTING CIRCUIT CONDITIONS ON THE NEW DIRECTORY.
19. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT IN SLABS OR EXTERIOR TO BUILDING SHALL BE MINIMUM 1". PROVIDE A NYLON/POLY PULL CORD IN ALL EMPTY CONDUITS.
20. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COPPER CONDUCTORS TYPE THHN/THWN-2 FOR ALL INTERIOR BUILDING WIRE. FOR EXTERIOR FEEDERS AND BRANCH CIRCUITS PROVIDE ALL COPPER CONDUCTORS TYPE XHHW-2. FOR UNDER 600V, REFER TO SPECIFICATIONS FOR MEDIUM VOLTAGE CABLES.
21. VOLTAGE DROP MINIMUM WIRE SIZING (20A CIRCUIT) USE: 120V CIRCUIT OVER 100' SHALL BE #10 MINIMUM. 120V CIRCUIT OVER 175' SHALL BE #8 MINIMUM. 208V CIRCUIT OVER 200' SHALL BE #10 MINIMUM. 277V CIRCUIT OVER 200' SHALL BE #10 MINIMUM. MINIMUM WIRE SIZE FOR ANY 20A BRANCH CIRCUIT SHALL BE #12. FURTHERMORE, CONSIDER ALL DERATING OF CONDUCTORS AS REQUIRED IN ACCORDANCE WITH THE APPLICABLE NEC.
22. ELECTRICAL CONTRACTOR SHALL HAVE THE OPTION OF GROUPING HOME RUNS IN ONE CONDUIT, PER THE REQUIREMENTS OF SECTION 310 OF THE NATIONAL ELECTRICAL CODE. NO MORE THAN FOUR (4) CIRCUITS SHALL BE ALLOWED TO BE GROUPED AND INSTALLED IN A SINGLE JUNCTION BOX. EC SHALL BE RESPONSIBLE FOR INCREASING CONDUCTOR SIZE AND DERATING. HOME RUNS WITH MORE THAN THREE CIRCUITS SHALL BE #10 AWG. CONDUCTOR MINIMUM. PROVIDE DEDICATED NEUTRALS FOR EACH PHASE CONDUCTOR AND CONSIDER THEM AS A CURRENT CARRYING CONDUCTOR FOR DERATING.
23. ALL HOME RUNS SHALL BE IN EMT CONDUIT. MC CABLE IS PERMITTED ABOVE CEILINGS FROM HOMERUNS TO FIXTURES AND WIRING DEVICES WITHIN WALLS AND FURRED COLUMNS. REFER TO ELECTRICAL SPECIFICATIONS FOR MORE DETAILED INFORMATION.
24. ALL EMERGENCY SERVICE WIRING SHALL BE ENTIRELY INDEPENDENT AND BE IN SEPARATE CONDUIT, PULL BOXES, PANELS, ETC.
25. ONLY PVC CONDUIT SHALL BE PERMITTED IN CONCRETE SLAB, EXCEPT FOR GRS ELLS.
26. WHEN SAW CUTTING FLOOR IS REQUIRED, CONTRACTOR SHALL LIMIT DEPTH TO A MINIMUM. ROUTE NEW CONDUITS BELOW OR ABOVE EXISTING CONDUITS, WATER PIPES, ETC. CONDUIT SHALL HAVE A MINIMUM OF 1" OF CONCRETE COVER.
27. ELECTRICAL CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC UTILITY COMPANY FOR INCOMING SERVICE REQUIREMENTS AND INCLUDE ALL COSTS IN BASE BID.
28. HEATING, VENTILATING, AIR CONDITIONING EQUIPMENT AND PLUMBING EQUIPMENT ALONG WITH ALL OTHER MISCELLANEOUS EQUIPMENT, MOTORS, AND KITCHEN EQUIPMENT SHALL BE POWERED AS CALLED OUT ON EQUIPMENT PROVIDER'S SCHEDULES UNLESS OTHERWISE NOTED. EC SHALL PROVIDE DISCONNECTING MEANS UNLESS SPECIFICALLY NOTED ON EQUIPMENT PROVIDER'S SCHEDULE.
29. SUPPORT ALL CONDUITS FROM STRUCTURAL WALLS, SLABS, MEMBERS AND ROOF JOISTS. DO NOT SUPPORT CONDUITS FROM CEILING TIE WIRES, DUCTWORK, PIPING, ROOF DECK OR OTHER NON-STRUCTURAL MEMBERS.
30. SUPPORTING OF ELECTRICAL CONDUITS: THE INDIVIDUAL BRANCH CIRCUIT CONDUIT AND ASSOCIATED 4" X 4" JUNCTION BOXES MAY BE SUPPORTED FROM FLOOR/ROOF JOISTS. ALL LARGER FEEDER CONDUITS AND/OR CLUSTER OR GROUPS OF BRANCH CIRCUIT CONDUITS SHALL BE SUPPORTED ON STEEL TRAPEZE WITH STEEL CHANNEL ATTACHED TO STEEL OR WOOD JOIST/BEAMS WITH PROPER ATTACHMENTS. NO SUPPORT SHALL BE ATTACHED TO THE ROOF DECK (NO EXCEPTIONS). HANG CONDUIT FROM TOP CHORD OF BAR JOIST WHEN ATTACHING HOME RUNS TO JOIST.
31. INTERIOR AND EXTERIOR LIGHT FIXTURES SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE DRAWINGS AND AS CALLED OUT IN THE LIGHTING FIXTURE SCHEDULE.
32. ALL WIRING DEVICES SHALL BE FLUSH MOUNTED, UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE RUN WITHIN WALL CAVITIES, BELOW FLOOR AND ABOVE CEILINGS. SURFACE MOUNTED ELECTRICAL WORK SHALL NOT BE USED UNLESS SPECIFICALLY NOTED ON THE PLANS.
33. ALL WALL AND CEILING FIXTURES AND DEVICES SHALL BE INDEPENDENTLY AND SECURELY MOUNTED SO THEY ARE NOT DEPENDENT ON CEILING FINISH FOR SUPPORT AND CAN NOT BE ROTATED OR DISPLACED. FIXTURES AND DEVICES MOUNTED IN SUSPENDED ACOUSTICAL CEILING TILE SHALL HAVE CHANNEL SUPPORTS ACROSS THE MAIN GRID RUNNERS OR GRID SUPPORTS SECURELY ANCHORED SO AS NOT TO CAUSE TILE TO SAG OR SO FIXTURE OR DEVICE CAN NOT BE LIFTED, ROTATED OR DISPLACED.
34. ELECTRICAL LIGHT FIXTURES, MECHANICAL AIR DEVICES, FIRE SPRINKLERS, AND SMOKE DETECTORS IN CEILING; ALL SUBS NEED TO TAKE OTHER DISCIPLINES INTO CONSIDERATION BEFORE STARTING THEIR WORK. ALL ITEMS THAT NEED TO BE MOVED WILL BE MOVED AT THE SUB'S EXPENSE. FIRE SPRINKLERS MUST BE LOCATED A MINIMUM OF 30 INCHES FROM ANY SURFACE MOUNTED LIGHT. SMOKE DETECTORS MUST BE MOUNTED NO CLOSER THAN 3 FEET OF AN AIR DEVICE OR CEILING FAN. FIRE SPRINKLERS, LIGHT FIXTURES, SMOKE DETECTORS, AND AIR DEVICES ALL TO BE CENTERED DOWN THE HALLWAYS. ELECTRICAL, MECHANICAL, FIRE SPRINKLER, AND LOW VOLTAGE SUB CONTRACTOR MUST MEET AND DECIDE BEFORE ANYONE STARTS, WHERE LOCATION OF THESE ITEMS WILL BE LOCATED. IF ITEM NEEDS TO BE MOVED, IT WILL BE AT THE EXPENSE OF THE SUB CONTRACTOR. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN.
35. ALL OPENINGS IN FIRE AND/OR SMOKE RATED WALLS, FLOORS, AND PARTITIONS FOR CONDUITS SHALL BE SEALED WITH RED FIRE RESISTANT FOAM OR PUTTY TO MAINTAIN THE FIRE AND/OR SMOKE RATING. ALL OPENINGS IN FIRE RATED AND/OR SMOKE WALLS, FLOORS, AND PARTITIONS FOR CABLING SHALL BE SEALED WITH WIREMOLD FLAMESTOPPER, STI EZ-PATH, HILTI SPEED SLEEVE OR EQUIVALENT.
36. RECEPTACLES/WIRING DEVICES SHALL NOT BE INSTALLED BACK-TO-BACK. INSTALL ON OPPOSITE SIDES OF WALL STUDS; WHERE DEVICES EXIST ALONG FIRE WALLS, COVER WITH UL LISTED PUTTY PACKS.
37. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHT FIXTURES, DIMENSIONAL LOCATION OF FIXTURES IN DRYWALL CEILING, ETC. LOCATION OF FLOOR BOXES AND RECEPTACLES, INCLUDING MOUNTING HEIGHTS. ALL RECEPTACLES AND COVER PLATE COLORS SHALL BE APPROVED BY ARCHITECT
38. OWNER RESERVES THE RIGHT TO RELOCATE ANY LIGHT FIXTURE, RECEPTACLE, ETC., BEFORE BEING INSTALLED 10'-0" FROM LOCATION AS SHOWN ON PLANS AT NO ADDITIONAL EXPENSE TO THE OWNER.
39. OUTLETS IN OFFICES SHALL HAVE THEIR WALL LOCATIONS COORDINATED WITH FINAL FURNITURE LAYOUT. GROUP POWER AND COMMUNICATION OUTLETS SIDE BY SIDE AT SAME HEIGHT.
40. NO CONDUIT OR CABLES SHALL BE INSTALLED EXPOSED IN FINISHED AREA. NON-CEILING AREA CONDUITS SHALL BE INSTALLED EXPOSED IN A NEAT WORKMAN LIKE MANNER AND BE PAINTED TO MATCH ADJACENT FINISHES.
41. ALL MATERIALS, DEVICES, FIXTURES, ETC., THAT ARE REQUIRED FOR THIS PROJECT ARE TO BE FURNISHED AND INSTALLED BY THE EC, UNLESS SPECIFICALLY INDICATED TO BE FURNISHED AND OR INSTALLED BY OTHERS.
42. TELEPHONE, IT, AUDIO, VIDEO, SECURITY AND FIRE ALARM CABLE WIRING IN WALLS AND FLOOR SHALL BE ROUTED IN CONDUIT FROM DEVICE/JUNCTION BOX TO ABOVE AN ACCESSIBLE CEILING OR IN ATTIC SPACE. 1" EMT MINIMUM. NO SPLICING OF TELEPHONE OR DATA CABLES SHALL BE PERMITTED. ALL CABLES SHALL BE BUNDLED AND SUPPORTED FROM STRUCTURE ABOVE, NO MORE THAN 60" O.C. DO NOT LAY CABLES ON CEILING SYSTEM. PROVIDE J-HOOKS AND/OR CABLE TRAY SYSTEM. MAINTAIN 12" CLEARANCE ABOVE CEILING. COLOR CODE EACH CABLE BY USAGE.
43. ALL SIGNAL AND CONTROL CABLES SHALL BE MINIMUM #18 STRANDED COPPER, UNLESS NOTED OTHERWISE. ALL CONNECTIONS AND SPLICES TO BE MADE BY USE OF "STA-KON" CONNECTORS AND TERMINAL STRIPS.
44. TYPICAL SEISMIC DETAILS ARE PROVIDED ON THE DRAWINGS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER'S ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SUBMITTAL TO THE PLAN REVIEWER. SHOP DRAWINGS SHALL SHOW ALL EQUIPMENT ANCHORAGE TO WALLS/CEILINGS/FLOORS AND SHALL INCLUDE SIZE OF SEISMIC ANCHOR BOLTS USED FOR EACH SYSTEM. CONTRACTOR SHALL PROVIDE CALCULATIONS, DETAILS, ETC. - PREPARED BY, SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER. REFER TO SPECIFICATIONS.
45. REFER TO ARCHITECTURAL UL ASSEMBLIES - PENETRATIONS SHEET A-012 FOR FIRE STOPPING DETAILS FOR CONDU

ELECTRICAL DEMOLITION GENERAL NOTES:

1. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES INCLUDING GENERAL DEMOLITION NOTES.
2. EXISTING FIXTURES & DEVICES TO REMAIN ARE INDICATED WITH THIN SOLID LINES; DARK DASHED LINES INDICATE FIXTURES/DEVICES THAT ARE INTENDED TO BE DEMOLISHED.
3. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL KEYED NOTES:

1. ALL UTILITY WORK AND OUTAGES SHALL BE COORDINATED WITH AMEREN AND THE OWNERS REPRESENTATIVE.
2. EXISTING MEDIUM VOLTAGE SWITCHGEAR TO BE DEMOLISHED ONLY AFTER NEW ELECTRICAL SERVICES AND NEW MEDIUM VOLTAGE SWITCHGEAR IS INSTALLED AND READY FOR SERVICE. REFER TO PHASING SEQUENCES SHEET E-005.
3. ATS TO BE DEMOLISHED IN A COORDINATED MANNER. ALL OUTAGES SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE. REFER TO PHASING SEQUENCES SHEET E-005.
4. EXISTING PAD MOUNTED XFMR TO BE DEMOLISHED. ALL OUTAGES SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE. REFER TO PHASING SEQUENCES SHEET E-005.
5. EXISTING SWBD-6 TO BE DEMOLISHED. ALL OUTAGES SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE. REFER TO PHASING SEQUENCES SHEET E-005.
6. EXISTING SWBD-6A TO REMAIN AND REFED TO NEW SWITCHBOARD. ALL OUTAGES SHALL BE COORDINATED WITH OWNERS REPRESENTATIVE. REFER TO PHASING SEQUENCES SHEET E-005.



CRMC EXISTING ONE-LINE DIAGRAM
NTS

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS

ELECTRICAL ONE-LINE DIAGRAM - DEMO

SHEET

E-002

SSC JOB# 2024379 - BID SET 07/08/25

ATS EQUIPMENT SCHEDULE

Equipment Name	Branch	Manufacturer	Voltage	Trip Rating	# of Poles	Bypass-Isolation	Transition Type	Location
ATS-0104	EQUIPMENT	ASCO	120/208V	225 A	4	N	CLOSED	N. BOILER ROOM
ATS-0203	LIFE SAFETY	ASCO	120/208V	225 A	4	Y	OPEN	NEW ELEC. RM
ATS-0204	CRITCAL	ASCO	120/208V	400 A	4	Y	OPEN	NEW ELEC. RM
ATS-0302	CRITCAL	ASCO	277/480V	600 A	4	Y	OPEN	NEW ELEC. RM
ATS-0304	LIFE SAFETY	ASCO	277/480V	125 A	4	Y	OPEN	NEW ELEC. RM
ATS-BECRD	CRITCAL	ASCO	120/208V	225 A	3	N	OPEN	MICROBIO
ATS-BELSD	LIFE SAFETY	ASCO	120/208V	400 A	3	N	OPEN	MICROBIO

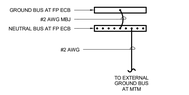
ATS EQUIPMENT SCHEDULE NOTES:
1. FACILITY STANDARD IS FOR ASCO ATS ONLY; NO SUBSTITUTES. REFER TO SPECIFICATION 26 0620.

ELECTRICAL KEYED NOTES:

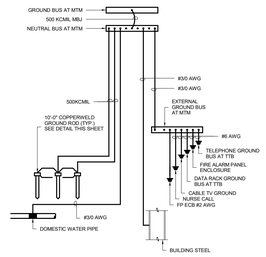
1. EXTEND EXISTING CONDUCTORS FROM NEW MAIN-TIE-MAIN TO EXISTING SWITCHBOARD 6A AT EXISTING PAD MOUNT TRANSFORMER PAD. PROVIDE NEMA 4X ENCLOSURE FOR SPLICE AT TRANSFORMER PAD. REFERENCE PHASING PLANS FOR SEQUENCE OF DEMOLITION AND RENOVATION.
2. EXISTING LOAD SHALL BE REFED TO NEW SWITCHBOARD 6. EXISTING SWITCHBOARD 6 SHALL REMAIN IN SERVICE UNTIL ALL LOADS ARE REFED TO NEW SWITCHBOARD 6. EXTEND EXISTING FEEDER AS INDICATED. REFERENCE PHASING PLANS FOR SEQUENCE OF DEMOLITION AND RENOVATION.
3. RECONNECT EXISTING GROUND ELECTRODE CONDUCTORS FOR NEW MAIN-TIE-MAIN. REFERENCE SERVICE GROUNDING DETAIL ON THIS SHEET.
4. MAIN-TIE-MAIN TO BE A MINIMUM OF (3) SEPARATE BUS OR CABLE CONNECTED ENCLOSURES TO ALLOW FOR EFFECTIVE ARC FLASH ENERGY ISOLATION BETWEEN SECTIONS WHEN THE TIE BREAKER IS IN THE OPEN POSITION AND ANY MAIN BREAKER SECTION REQUIRES SERVICING.
5. PROVIDE TYPE 1 SPD PER SPECIFICATIONS. LOCATE EXTERNAL TO EQUIPMENT AND AS CLOSE AS FEASIBLE TO INCOMING CONDUCTORS.
6. PROVIDE FUSES AS REQUIRED BY AMEREN IN MAIN LOAD BREAK SWITCHES.
7. PROVIDE TYPE 1 SPD PER SPECIFICATIONS. LOCATE INTERNAL TO EQUIPMENT AND AS CLOSE AS FEASIBLE TO INCOMING CONDUCTORS.
8. REMOVE EXISTING NEUTRAL-TO-GROUND BOND. REFER TO PHASING SCHEDULE FOR OUTAGE PERIOD WHERE 'SWBD-6A' WILL BE DE-ENERGEIZED.

ELECTRICAL GENERAL NOTES:

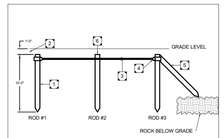
1. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
3. OVERSIZED FEEDERS HAVE BEEN SIZED TO LIMIT VOLTAGE DROP. PROVIDE PROPER LUGS OR PIGTAIL ADAPTERS. FUSES FOR SPECIFIC MECHANICAL EQUIPMENT HAVE BEEN PROVIDED TO LIMIT AVAILABLE FAULT CURRENT AT THE EQUIPMENT.
4. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.



BONDING DETAIL AT FP ECB
NO SCALE



BONDING DETAIL AT MAIN-TIE-MAIN
NO SCALE



KEYED NOTES:
1. 3/4" x 10' COPPER CLAD STEEL GROUND ROD.
2. 1" COVER MINIMUM TO TOP OF ROD.
3. #6 BARE COPPER CONDUCTOR TYPICAL FOR THREE ROD SYSTEM.
4. EXOTHERMIC WELDED ELECTRODE CONNECTION - TYPICAL.
5. IF ROCK IS ENCOUNTERED, GROUND RODS SHALL BE PERMITTED TO BE DRIVEN AT AN OPPOSING 45° ANGLE FROM EACH OTHER.
6. NOTE: 10' MINIMUM HORIZONTAL SPACING BETWEEN GROUND RODS IN A TRIANGULAR CONFIGURATION.

THREE GROUND ROD ELECTRODE DETAIL
NO SCALE

FEEDER SCHEDULE

PLAN MARK	OVERCURRENT PROTECTION	AMPERAGE	FEEDER SIZE (COPPER, U.N.O.)
100 100N	80A, 90A, 100A 80A, 90A, 100A	100A 100A	3 #3 & 1 #8G., 1-1/4"C. 4 #3 & 1 #8G., 1-1/4"C.
110 110N	110A 110A	110A 110A	3 #2, 1 #6G, 1-1/4"C 4 #2, 1 #6G, 1-1/4"C
125 125N	125A 125A	130A 130A	3 #1 & 1 #6G., 1-1/2"C. 4 #1 & 1 #6G., 1-1/2"C.
150 150N	150A 150A	150A 150A	3 #1/0 & 1 #6G., 1-1/2"C. 4 #1/0 & 1 #6G., 2"C.
175 175N	175A 175A	175A 175A	3 #2/0 & 1 #6G., 2"C. 4 #2/0 & 1 #6G., 2"C.
200 200N	200A 200A	200A 200A	3 #3/0 & 1 #6G., 2"C. 4 #3/0 & 1 #6G., 2-1/2"C.
225 225N	225A 225A	230A 230A	3 #4/0 & 1 #4G., 2"C. 4 #4/0 & 1 #4G., 2-1/2"C.
250 250N	250A 250A	255A 255A	3-250 kcmil & 1 #4G., 2-1/2"C. 4-250 kcmil & 1 #4G., 3"C.
300 300N	300A 300A	310A 310A	3-350 kcmil & 1 #4G., 3"C. 4-350 kcmil & 1 #4G., 3"C.
350 350N	350A 350A	380A 380A	3-500 kcmil & 1 #3G., 3"C. 4-500 kcmil & 1 #3G., 3-1/2"C.
400 400N	400A 400A	400A 400A	TWO SETS OF [3 #3/0 & 1 #3G., 2"C] TWO SETS OF [4 #3/0 & 1 #3G., 2"C]
600 600N	600A 600A	620A 620A	TWO SETS OF [3-350 kcmil & 1 #1G., 3"C] TWO SETS OF [4-350 kcmil & 1 #1G., 3"C]
700 700N	700A 700A	760A 760A	TWO SETS OF [3-500 kcmil & 1 #1/0G., 3"C] TWO SETS OF [4-500 kcmil & 1 #1/0G., 3"C]
800 800N	800A 800A	840A 840A	TWO SETS OF [3-600 kcmil & 1 #1/0G., 4"C] TWO SETS OF [4-600 kcmil & 1 #1/0G., 4"C]
1200 1200N	1200A 1200A	1240A 1240A	FOUR SETS OF [3-350 kcmil & 1 #3/0G, 3"C] FOUR SETS OF [4-350 kcmil & 1 #3/0G, 3"C]
3000 3000N	3000A 3000A	3040A 3040A	EIGHT SETS OF [3-500 kcmil & 1-400 kcmil G., 4"C] EIGHT SETS OF [4-500 kcmil & 1-400 kcmil G., 4"C]

FEEDER SCHEDULE NOTES:
1. AN 'E' FOLLOWING A FEEDER SIZE INDICATES A SERVICE FEEDER; GROUND CONDUCTORS MAY BE OMITTED FROM THESE SERVICE FEEDERS.

ELECTRICAL SERVICE RESPONSIBILITY SCHEDULE

DESCRIPTION	FURNISHED BY	INSTALLED BY
PRIMARY CONDUCTORS TERMINATION AT UTILITY POLE	UTIL	UTIL
PRIMARY CONDUCTORS	UTIL	UTIL
TRANSFORMER CONCRETE PAD	GC	GC
PAD MOUNT TRANSFORMERS	GC	GC
ALL SERVICE TRANSFORMER GROUND RODS	GC	GC
CT'S/PT'S IN SWITCHGEAR - NOTE 4	UTIL	UTIL
PRIMARY CONDUITS (FROM POLE TO SWITCHGEAR AND TO XFMR) NOTE 1	GC	GC
SECONDARY CONDUCTOR (FROM XFMR TO MTM), NOTE 2	GC	GC
SECONDARY CONDUCTOR TERMINATION @ MTM	GC	GC
SECONDARY CONDUCTOR TERMINATION @ XFMR	GC	GC
SECONDARY CONDUCTOR LUGS (AT TRANSFORMER)	GC	GC
SECONDARY CONDUCTOR LUGS (AT MTM)	GC	GC
METER - NOTE 3	UTIL	UTIL
METER SOCKET/WIRING/INSTALLATION ON SWITCHGEAR	UTIL	UTIL

GC - GENERAL CONTRACTOR
UTIL - UTILITY CO

UTILITY CO. -
AMEREN ELECTRIC
TAMMY KOZLOWSKI
ENGINEERING ENGINEER
TEL: 573-681-7515
EMAIL: TKOLB@AMEREN.COM

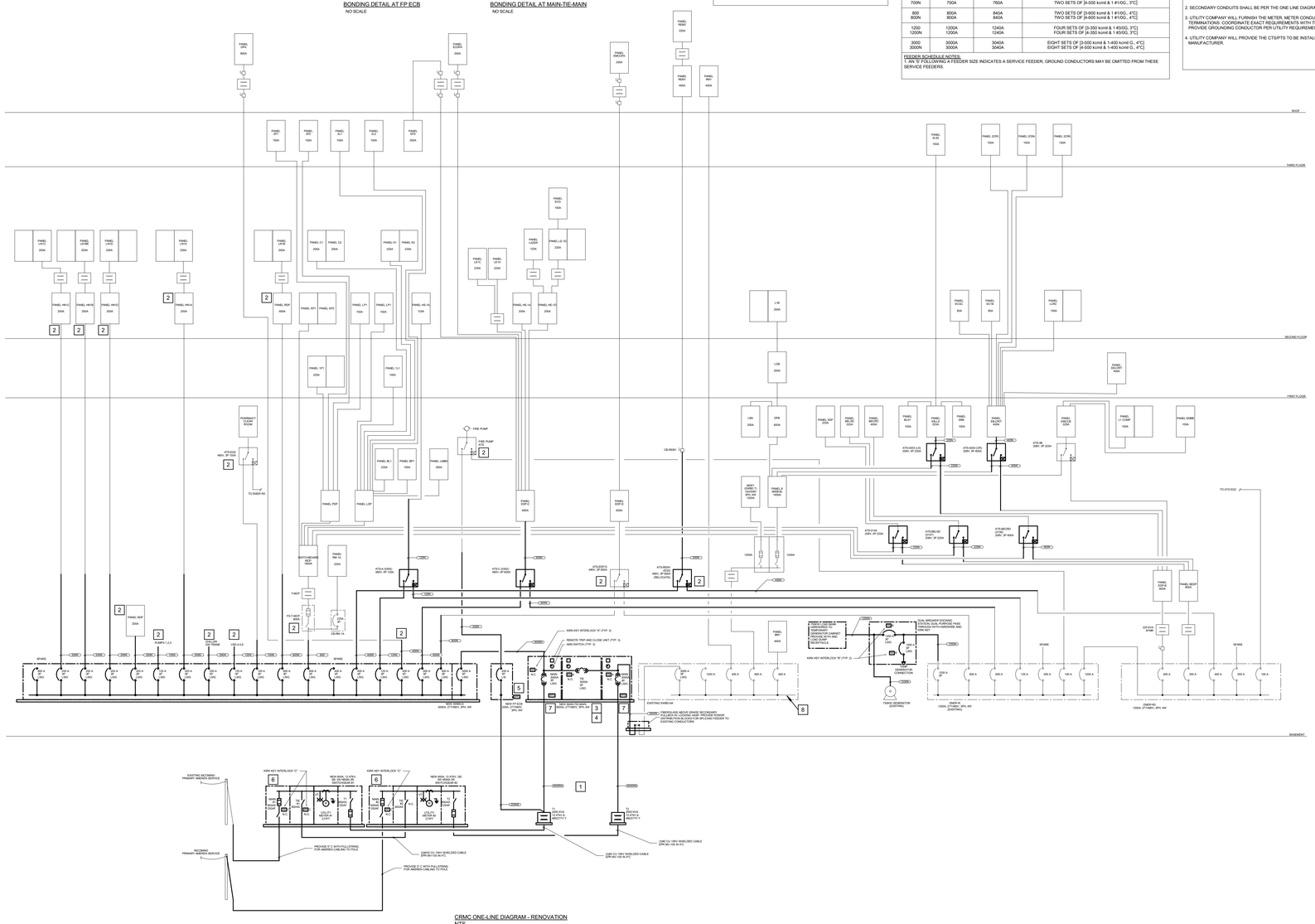
ELECTRICAL SERVICE RESPONSIBILITY SCHEDULE NOTES:

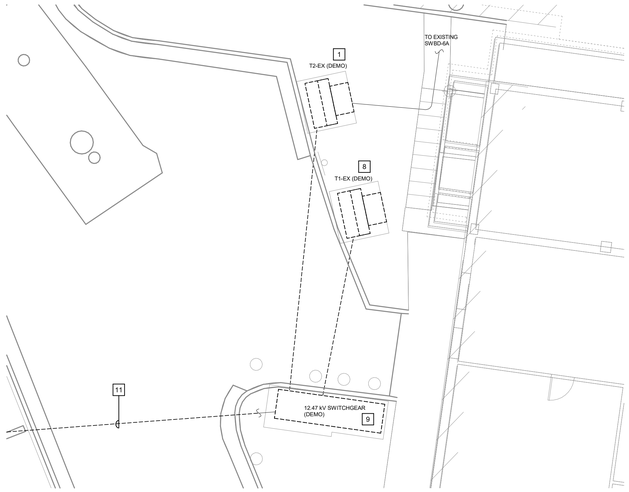
1. THE GC SHALL INSTALL THE ELECTRICAL SERVICE IN CONFORMANCE WITH ALL GOVERNING RULES AND REGULATIONS - CITY, LOCAL UTILITY CO., ETC. THE GC SHALL CONFORM WITH THE UTILITY CO.'S SERVICE REQUIREMENTS. REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO REQUIRED INSPECTIONS, PRIMARY CONDUIT LENGTH LEFT AT POLE, CLEARANCES, ETC.

2. SECONDARY CONDUITS SHALL BE PER THE ONE LINE DIAGRAM.

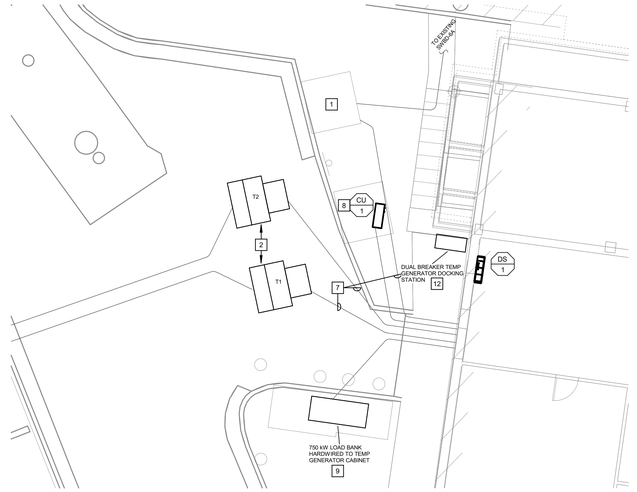
3. UTILITY COMPANY WILL FURNISH THE METER, METER CONDUCTORS AND MAKE ALL TERMINATIONS. COORDINATE EXACT REQUIREMENTS WITH THE UTILITY COMPANY. PROVIDE GROUNDING CONDUCTOR PER UTILITY REQUIREMENTS.

4. UTILITY COMPANY WILL PROVIDE THE CT'S/PT'S TO BE INSTALLED BY THE SWITCHGEAR MANUFACTURER.

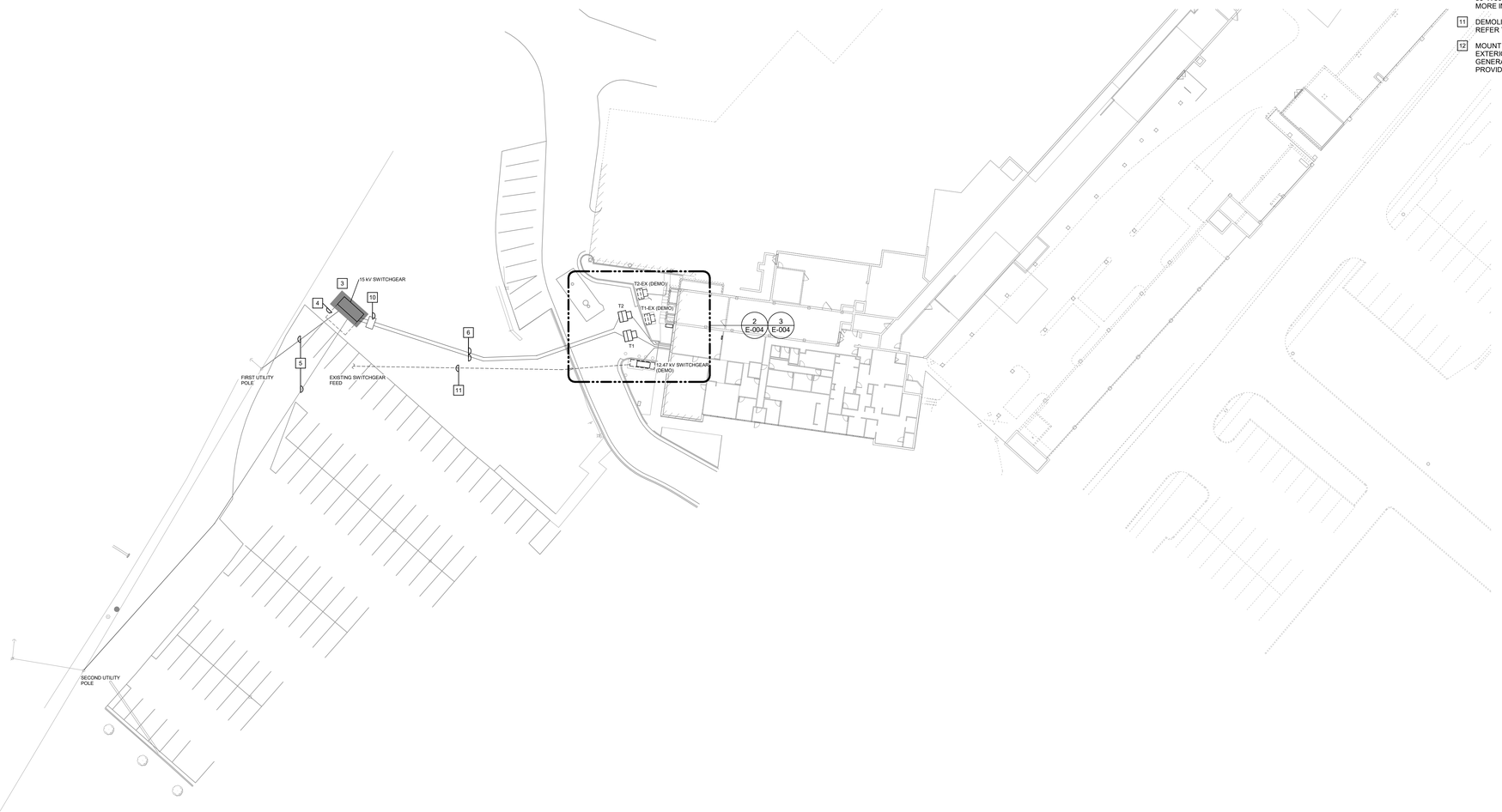

ROOF
THIRD FLOOR
SECOND FLOOR
FIRST FLOOR
BASEMENT
PANEL UH-C 200A
PANEL UH-NE 200A
PANEL UH-O 200A
PANEL UH-A 200A
PANEL HH-C 200A
PANEL HH-NE 200A
PANEL HH-O 200A
PANEL HH-A 200A
PANEL GPA 400A
PANEL E/GPA 200A
PANEL EMCPA 200A
PANEL RENO 225A
PANEL RDP 800A
PANEL RENO 400A
PANEL RDO 400A
PANEL C1 200A
PANEL C2 200A
PANEL A1 225A
PANEL A2 225A
PANEL LETC 225A
PANEL LETA 225A
PANEL LE-1C 125A
PANEL LE-1C 225A
PANEL HE-1A 200A
PANEL HE-1C 200A
PANEL HE-1A 125A
PANEL LP1 150A
PANEL LP1 150A
PANEL SP1 225A
PANEL 'L1' 150A
PANEL E/CC 80A
PANEL E/CTE 80A
PANEL LCRC 150A
PANEL E/LCC 80A
PANEL LCRO 150A
PANEL E/LCD 80A
PANEL E/LCTE 80A
PANEL LCRE 150A
PANEL LCRE 150A
L1B 200A
L1A 200A
L1B 200A
LGB 200A
LBA 200A
DPB 600A
PANEL RDP 225A
PANEL RECPD 225A
PANEL RECPD 400A
PANEL BLD1 150A
PANEL CELA 225A
PANEL EBB 150A
PANEL RELCCP 400A
PANEL RSCCB 225A
PANEL LI CRAP 150A
PANEL EMBB 150A
PANEL BELSDD 400A
PANEL LCRD 150A
PANEL UH-C 200A
PANEL UH-NE 200A
PANEL UH-O 200A
PANEL UH-A 200A
PANEL HH-C 200A
PANEL HH-NE 200A
PANEL HH-O 200A
PANEL HH-A 200A
PANEL HEVA 200A
PANEL RDP 800A
PANEL RPI 225A
PANEL RPO 150A
PANEL LP1 150A
PANEL LP1 150A
PANEL HE-1A 125A
PANEL SP1 225A
PANEL 'L1' 150A
PANEL LETC 225A
PANEL LETA 225A
PANEL HE-1A 200A
PANEL HE-1C 200A
PANEL BL1 225A
PANEL BP1 150A
PANEL LMBB 200A
PANEL PDP
PANEL LDP
PANEL E/GP1 800A
PANEL E/GP2 800A
PANEL SWBD 6A 1600A
PANEL 6A 225A
PANEL RDP 200A
PANEL BECRD 800A
PANEL BESDP 800A
PANEL BBT 400A
PANEL E/GP 4a 800A
PANEL E/GP 4b 800A
PANEL 'L1' 150A
PANEL 'L2' 225A
PANEL 'L3' 225A
PANEL 'L4' 225A
PANEL 'L5' 225A
PANEL 'L6' 225A
PANEL 'L7' 225A
PANEL 'L8' 225A
PANEL 'L9' 225A
PANEL 'L10' 225A
PANEL 'L11' 225A
PANEL 'L12' 225A
PANEL 'L13' 225A
PANEL 'L14' 225A
PANEL



2 **ELECTRICAL SITE PLAN - ENLARGED - DEMO**
SCALE: 1/8" = 1'-0"
NORTH



3 **ELECTRICAL SITE PLAN - ENLARGED - RENO**
SCALE: 1/8" = 1'-0"
NORTH



ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"
NORTH

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. EC SHALL FIELD VERIFY EXISTING POLES, MANHOLES, SPARE CONDUIT, RIGHTS-OF-WAY, UTILITIES, AND BUILDING LOCATIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.
3. PROVIDE 1800# MULETAPE IN ALL NEW CONDUITS, INNERDUCTS AND IN ALL CONDUITS FOR NEW CABLE RUNS.
4. EC SHALL COORDINATE EXACT LOCATIONS, REQUIREMENTS, METERING AND TERMINATIONS WITH UTILITY PROVIDERS PRIOR TO BID.
5. COORDINATE ALL UNDERGROUND ELECTRICAL WORK AND UTILITY TIE-INS WITH UTILITY PROVIDERS AND WORK OF OTHER TRADES.
6. UNDERGROUND FACILITY STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDED INFORMATION. THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND FACILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL IN-GROUND CONDUITS SHALL BE 1" MINIMUM, SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
8. ELECTRICAL CONTRACTOR SHALL PROTECT AND EXTEND EXISTING SERVICES TO EXISTING BUILDINGS TO MAINTAIN CONTINUITY OF SERVICE. REROUTE EXISTING SERVICES AS REQUIRED TO AVOID CONSTRUCTION AND WORK OF OTHER TRADES.
9. ALL UNDERGROUND AND EXTERIOR CONDUCTORS LESS THAN 600V SHALL BE TYPE "XHHW-2".
10. PROVIDE MV CABLING PER SPECIFICATION IN CONDUIT AND CONCRETE ENCASE CONDUITS FOR MV CABLING WHERE NOTED ON CIVIL PLANS.

ELECTRICAL KEYED NOTES:

1. PROTECT AND MAINTAIN EXISTING CONDUIT STUB UP LOCATIONS AND CONCRETE PAD BENEATH T2-EX FOR REUSE IN RENOVATION. PROVIDE NEW ABOVE GRADE SECONDARY ENCLOSURE TO SPLICE EXISTING CONDUCTORS AND REFEED TO SWBD-6A FROM NEW MAIN-TIE-MAIN.
2. NEW CONCRETE PADS FOR NEW PAD MOUNTED LIQUID FILLED TRANSFORMERS TO BE INSTALLED BY EC. REFER TO TRANSFORMER PAD DETAIL 21/E-006 AND SPECIFICATIONS FOR TRANSFORMER REQUIREMENTS.
3. CONCRETE PAD FOR NEW ELECTRICAL EQUIPMENT TO BE INSTALLED BY EC. REFER TO DETAIL 23/E-006.
4. MAINTAIN 8' CLEARANCE IN FRONT OF NEW SWITCHGEAR.
5. PRIMARY CONDUITS FROM UTILITY POLES TO SWITCHGEAR. REFER TO C103 AND PROVIDE DIRECTIONAL BORING OF 5" CONDUIT.
6. PRIMARY CONDUITS FROM SWITCHGEAR TO TRANSFORMERS. EC TO PROVIDE TRENCH PER DETAIL 1/E-006. PROVIDE CONCRETE ENCASEMENT PER C103.
7. SECONDARY CONDUITS FROM NEW TRANSFORMERS TO NEW MAIN-TIE-MAIN AND MAINT-TIE-MAIN TO SWBD-6A PULLBOX. EC TO PROVIDE TRENCH PER DETAIL 2/E-006.
8. NEW CONDENSING UNIT TO BE LOCATED ON CONCRETE PAD ASSOCIATED WITH DEMOLISHED T1-EX. MAINTAIN CONCRETE PAD TO EXTENT FEASIBLE DURING DEMOLITION.
9. MAINTAIN EXISTING CONCRETE PAD BENEATH SWITCHGEAR TO BE DEMOLISHED TO EXTENT FEASIBLE. LOAD BANK IS TO BE INSTALLED ON EXISTING CONCRETE PAD IN RENOVATION. GROUT AND SEAL UNUSED EXISTING CONDUIT STUB-UPS IN PAD.
10. INSTALL AND DRAIN PULLBOX AT LOW POINT IN CONDUIT RUN TO PREVENT WATER FROM ENTERING SWITCHGEAR. PULLBOX TO BE PG-TYPE QUAZITE 36" X 36" X 36" WITH COVER INDICATING 'ELECTRICAL'. REFER TO DETAIL 12/E-006 FOR MORE INFORMATION.
11. DEMOLISH EXISTING SWITCHGEAR CONDUCTORS AND ABANDON CONDUIT. REFER TO PHASING SCHEDULE AND C102.
12. MOUNT DUAL BREAKER TEMPORARY GENERATOR DOCKING STATION ON EXTERIOR OF EXISTING ELECTRICAL ROOM AND CONNECT TO GENERATOR AND GENERATOR DISTRIBUTION PANEL. REFER TO PHASING SEQUENCE AND PROVIDE TEMPORARY GENERATOR AS NOTED IN PHASING SEQUENCE.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better, Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS
ELECTRICAL SITE PLAN

SHEET
E-004

SSC JOB# 2024379 - BID SET 07/08/25

CP252301 Proposed Phasing Sequence for New Switchgear Installation and Electrical Room Construction
07/08/2025

		CAPITOL REGION MEDICAL CENTER	Performed By	Materials Supplied By	Maximum Outage Duration	REMARKS
PHASE 1 **(Install temporary generator / loadbank connection cabinet)**	1	Planned Outage #1 - Result to Install Cam-Lock Connection/Load Bank Cabinet				
	a.	Install 1200A, 277/480V cam-lock connection cabinet for mobile emergency generator connection and load bank testing at the west exterior wall of southwest electrical room and route conduit and feeders to the emergency generator room Panel EMDP-R and terminate in splice connectors.	GC	GC		
	b.	Rough-in new feeder from new cam-lock connection cabinet to main bus of existing Panel EMDP-R. Feeders to be connected to generator output breaker in a subsequent step.	GC	GC		
	c.	Open main breaker of existing Panel EMDP-R to prevent bus from becoming energized due to generator start.	GC	N/A	2 Hours	**Start of Planned Outage #1. Generator will be unavailable.**
	f.	Install and terminate feeder from cam-lock cabinet to EMDP-R.	GC	N/A		
	g.	Close main breaker of existing Panel EMDP-R.	GC	GC		**End of Planned Outage #1.**
PHASE 2 **(Install new 12.47 kV switchgear and pad-mount transformers)**	1	Install new concrete pads and install new primary feeders from utility poles to new location of 12.47 kV switchgear.				
	2	Trench and install new primary and secondary transformer feeders. Stub up in location of new Main-Tie-Main (MTM). Rough-in feeder from MTM to adjacent to existing pad mounted transformer to be replaced by a pullbox in subsequent phase.	GC	GC		
	3	Install new 12.47 kV switchgear and metering equipment. Energize and commission switchgear.	GC	GC		
	4	Install (2) new 2000 kVA pad-mount transformers on new concrete pads. Transformers will be energized in a subsequent phase.	GC	GC		
PHASE 3 **(Relocate ATS-REM1)**	1	Planned Outage #2 - Result to relocate ATS-REM1 to new Electrical Room and to make space for cabling installation for Switchboard 6 and ATS's.				
	a.	Open 400A output breakers in existing SWBD-6 and existing EMDP-R2 feeding ATS-REM1 to de-energize switch. Equipment branch loads fed from Panel REM1 and REM2 will not be available.	GC	N/A	2 Hours	**Start of Planned Outage #2. Panels REM1 & REM2 unavailable.**
	b.	Disconnect (3) 400A feeders at ATS-REM1, and extend circuitry to new ATS-REM1 location.	GC	N/A		
	c.	Remove ATS-REM1 from mounting frame and relocate to new Electrical Room. Remount in new location.	GC	N/A		
	d.	Close 400A output breakers in existing SWBD-6 and existing EMDP-R2. Test and commission relocated ATS-REM1.	GC	N/A		**End of Planned Outage #2.**

CP252301 Proposed Phasing Sequence for New Switchgear Installation and Electrical Room Construction
07/08/2025

		CAPITOL REGION MEDICAL CENTER	Performed By	Materials Supplied By	Maximum Outage Duration	REMARKS
PHASE 4 **(Install new SWBD-6, refeed SWBD-6A and install new ATS)**	1	Install new Main-Tie-Main (MTM) and SWBD-6 in new electrical room.	GC	GC		
	2	Install feeders between pad mounted transformers and MTM. Install feeders between MTM and new SWBD-6.	GC	GC		
	3	Rough-in feeders from new SWBD-6 and existing loads to be served by this equipment.	GC	GC		
	4	Install (4) new ATS equipment in new electrical room: i) ATS-0203, ii) ATS-0204, iii) ATS-0302, iv) ATS-0304.	GC	GC		
	5	Planned Outage #3 - Result to energize new SWBD-6 and transfer loads from old SWBD-6 to new SWBD-6				
	a.	Connect temporary generator to camlock-cabinet installed in Phase 1. Switch ATS's to emergency power side.	GC	GC		**Temporary Generator is to be on site at the start of this step. All subsequent steps are to be performed with temporary generator is on site and connected to cam-lock cabinet ready to transfer in the event of a generator failure.**
	b.	Coordinate with Ameren to energize (2) new 2000 kVA transformers for testing, energize MTM, and keep main breakers for new SWBD-6 and existing SWBD-6A open. Perform testing and commissioning of MTM.	GC	N/A		
	c.	Coordinate with Ameren and open existing 12.47kV load break switch serving transformer T1 and SWBD-6. Normal power to SWBD-6 will be unavailable.	GC	N/A	48 Hours	**Start of Planned Outage #3.**
	d.	Transfer SWBD-6 loads from old to new branch circuit breakers. Extend existing circuitry and make final connection. Close new output breaker at MTM to SWBD-6 after all load has been transferred.	GC	N/A		
	e.	Repeat steps 5c and 5d for all remaining loads on old SWBD-6 in order to safely transfer each load from existing SWBD-6 to new SWBD-6.	GC	N/A		
	f.	Close circuit breaker in MTM to energize SWBD-6 when all loads have been transferred and demolish deenergized SWBD-6.	GC	N/A		**End of Planned Outage #3.**
	6	Planned Outage #4 - Result to decommission (2) existing to be demolished transformers T1 and T2, and transfer SWBD-6A load to new MTM.				
	a.	Verify breaker in new MTM to serve existing to remain SWBD-6A is in open position.	GC	N/A		
	b.	Coordinate with Ameren and open existing 12.47kV load break switch serving existing transformer T2 and SWBD-6A.	GC	N/A	8 Hours	**Start of Planned Outage #4.**
	c.	Remove existing transformer T2 from concrete pad, but protect and maintain feeder to SWBD-6A. Extend previously roughed-in feeder from MTM to existing SWBD-6A feeder and splice conductors inside new fiberglass secondary enclosure on concrete pad previously housing T2.	GC	GC		**Refer to Electrical Plans.**
	d.	Close new 12.47kV main switch to energize XFMR T2, and close breaker in new MTM to serve existing to remain SWBD-6A.	GC	N/A		**End of Planned Outage #4.**
	e.	Demolish deenergized transformers T1 and T2 and coordinate with Ameren to deenergize and demolish existing 12.47kV switchgear and turn over meter Ameren.	GC	N/A		
	7	Planned Outage #5 - Result to install and commission (4) new ATS's: ATS-0203, ATS-0204, ATS-0302, and ATS-0304.				
	a.	Intent is to replace ATS's one-at-a-time to minimize outage lengths on respective branches one at a time. Open upstream breakers serving ATS.	GC	N/A	4 Hours	**Start of Planned Outage #5.**
	b.	Disconnect (3) feeders from ATS and extend circuitry to new ATS location.	GC	GC		
	c.	Close upstream breakers serving ATS to energize equipment.	GC	N/A		
	d.	Repeat steps 7a-c until all (4) ATS's have been energized and commissioned. These include ATS-0203, ATS-0204, ATS-0302, and ATS-0304.	GC	GC		**End of Planned Outage #5.**
	8	Planned Outage #6 - Result to install and commission (2) new ATS's in Microbiology Electrical Closet: ATS-BELSD and ATS-BECRD and install (1) new ATS-0104 in existing North Boiler Room.			6 Hours	**Start of Planned Outage #6.**
	a.	Intent is to replace ATS's one-at-a-time to minimize outage lengths on respective branches. Open upstream breakers serving ATS and de-energize.	GC	N/A		
	b.	Disconnect (3) feeders from ATS and protect circuitry for new ATS to be installed in same location. Demolish decommissioned ATS.	GC	N/A		
	c.	Install new ATS in same location as demolished equipment. Connect feeders to new equipment.	GC	N/A		
	d.	Close upstream breakers serving ATS to energize equipment and commission ATS.	GC	N/A		
	e.	Repeat steps 8a-d for second ATS and energize and commission ATS.	GC	N/A		**End of Planned Outage #6.**
	NOTE 1	This sequence can be completed with all equipment in an electrically safe condition. Contractor is required to use the Owner's hot work and utility outage permit requirements per Owner's Healthcare Construction Safety Requirements document.				
	NOTE 2	Abbreviations: GC - Denotes General Contractor AMR - Denotes Ameren electrical utility *** Denotes troubleshooting procedures only to be performed in the instance of an equipment or utility failure.				

SSC Engineering
16007 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

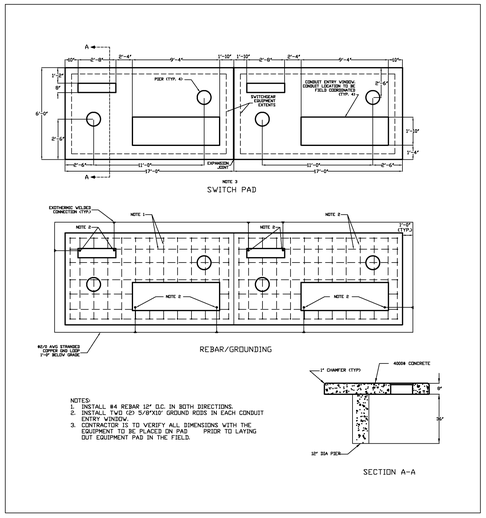
REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL PHASING SEQUENCES

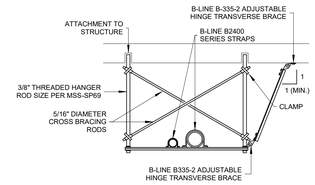
SHEET
E-005

SSC JOB# 2024379 - BID SET 07/08/25

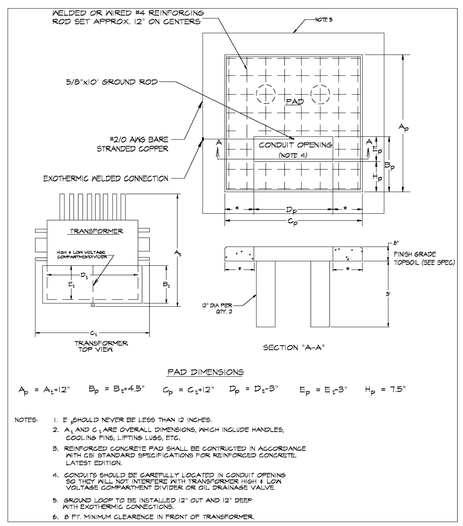


NOTES:
1. INSTALL #4 REBAR 12" O.C. IN BOTH DIRECTIONS.
2. INSTALL TWO (2) 5/8"X10' GROUND RODS IN EACH CONDUIT ENTRY WINDOW.
3. CONTRACTOR IS TO VERIFY ALL DIMENSIONS WITH THE EQUIPMENT TO BE PLACED ON PAD PRIOR TO LAYING OUT EQUIPMENT PAD IN THE FIELD.

23 TYPICAL ELECTRICAL SWITCHGEAR PAD DETAIL
NOT TO SCALE



3 TYPICAL SEISMIC BRACING FOR FEEDER CONDUITS
NOT TO SCALE

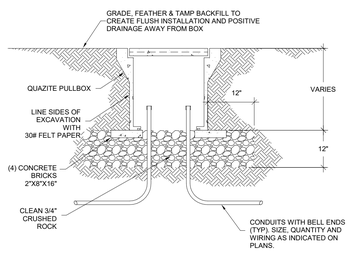


PAD DIMENSIONS

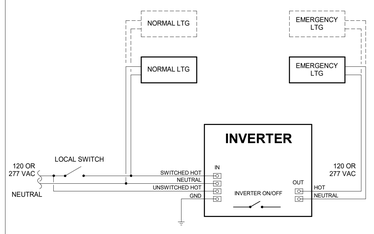
$A_p = A_t+12"$ $B_p = B_t+4.5"$ $C_p = C_t+12"$ $D_p = D_t-3"$ $E_p = E_t-3"$ $H_p = 7.5"$

NOTES:
1. E SHOULD NEVER BE LESS THAN 12 INCHES.
2. A_t AND C_t ARE OVERALL DIMENSIONS, WHICH INCLUDE HANDLES, COOLING FINS, LIFTING LUGS, ETC.
3. REINFORCED CONCRETE PAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH CSI STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE, LATEST EDITION.
4. CONDUITS SHOULD BE CAREFULLY LOCATED IN CONDUIT OPENING SO THEY WILL NOT INTERFERE WITH TRANSFORMER HIGH & LOW VOLTAGE COMPARTMENT DIVIDER OR OIL DRAINAGE VALVE.
5. GROUND LOOP TO BE INSTALLED 12" OUT AND 12" DEEP WITH EXOTHERMIC CONNECTIONS.
6. 8 FT. MINIMUM CLEARANCE IN FRONT OF TRANSFORMER.

21 ELECTRICAL XFMR PAD DETAIL
NOT TO SCALE



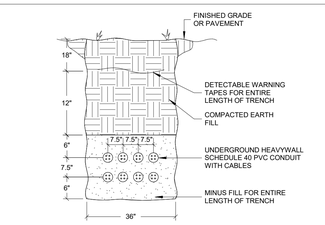
12 UNDERGROUND PULLBOX
NOT TO SCALE



GENERAL NOTES:

1. THIS DIAGRAM IS PROVIDED FOR GENERAL REFERENCE, COORDINATE WITH MFR INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS.

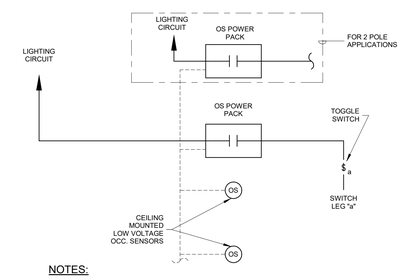
7 LIGHTING INVERTER WIRING DIAGRAM
NOT TO SCALE



NOTES:

1. COORDINATE ALL WORK WITH UTIL. COMPANIES & APPLICABLE TRADES.
2. EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
3. EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.
4. TRANSFORMER SECONDARY CONDUITS TO MAIN-TIE-MAIN CRITICAL CONDUITS ARE TO BE LOCATED BENEATH OTHER FEEDERS.

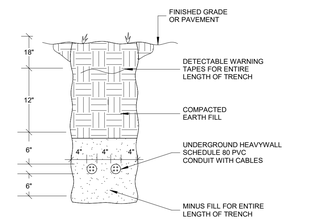
2 TRENCH DETAIL FOR SECONDARY POWER CONDUITS
NOT TO SCALE



NOTES:

1. REFER TO PLAN FOR CIRCUIT NUMBERS, SWITCH TYPES AND SWITCH IDENTIFICATION.
2. COORDINATE WITH MANUFACTURER SPECIFICATIONS.

11 OCCUPANCY SENSOR SWITCHING DETAIL
NOT TO SCALE



NOTES:

1. COORDINATE ALL WORK WITH UTILITY COMPANIES.
2. EXCAVATED MATERIAL SHALL BE PLACED A MINIMUM OF 2' FROM BOTH EDGES OF THE TRENCH.
3. EDGES OF TRENCH SHALL BE A MIN OF 36" FROM EDGE OF WATER, GAS OR SEWER PIPES.
4. REFER TO C103 FOR CONCRETE ENCASED DUCTBANK DETAIL FOR WHERE INDICATED ON C103.

1 TRENCH DETAIL FOR PRIMARY POWER CONDUIT
NOT TO SCALE

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS
ELECTRICAL DETAILS

SHEET
E-006

SSC JOB# 2024379 - BID SET 07/08/25

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #2. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

Branch Panel: REM1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:
ROOF MECH RM 9, EQUIPMENT BRANCH POWER, ATS REM1, FED FROM EDP-D (GENERATOR ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	XFMR - REM2	20 A	3	0 VA			0 VA			3	20 A	Spare	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	--	--	--	6	--
	7	NEW MEDICAL AIR COMPRESSOR	20 A	3	0 VA			0 VA			3	20 A	Spare	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13							0 VA			3	20 A	Spare	14	
	15								0 VA		--	--	--	16	--
	17									0 VA	--	--	--	18	--
	19	HEAT TRACE MAU-CRIT	20 A	3	0 VA			0 VA			3	20 A	AHU-4 R.F.	20	
--	21	--	--	--		0 VA			0 VA		--	--	--	22	--
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	AHU-1 R.F.	20 A	3	0 VA			--			3	--	AHU-5 R.F.	26	
--	27	--	--	--		0 VA			--		--	--	--	28	--
--	29	--	--	--			0 VA			--	--	--	--	30	--
	31	AHU-7 R.F.	20 A	3	0 VA			0 VA			3	20 A	AHU-5 S.F.	32	
--	33	--	--	--		0 VA			0 VA		--	--	--	34	--
--	35	--	--	--			0 VA			0 VA	--	--	--	36	--
	37	AHU-4 S.F.	20 A	3	0 VA			0 VA			3	20 A	AHU-6	38	
--	39	--	--	--		0 VA			0 VA		--	--	--	40	--
--	41	--	--	--			0 VA			0 VA	--	--	--	42	--
	43	AHU-1 S.F.	20 A	3	0 VA			0 VA			3	20 A	Spare	44	
--	45	--	--	--		0 VA			0 VA		--	--	--	46	--
--	47	--	--	--			0 VA			0 VA	--	--	--	48	--
	49	AHU-2	20 A	3	0 VA			0 VA			3	20 A	AHU-7 S.F.	50	
--	51	--	--	--		0 VA			0 VA		--	--	--	52	--
--	53	--	--	--			0 VA			0 VA	--	--	--	54	--
	55	AHU-8	20 A	3	0 VA									56	
--	57	--	--	--		0 VA								58	
--	59	--	--	--			0 VA							60	
	61													62	
	63													64	
	65													66	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: REM2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
ROOF MECH RM 9, EQUIPMENT BRANCH POWER, ATS-REM1, FED FROM PANEL REM1 (MECH RM 9)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	AHU CONTROLS	20 A	1	0 VA									2	
	3													4	
	5													6	
	7							0 VA			1	20 A	AMBULANCE RADIO	8	
	9								0 VA		1	20 A	AMBULANCE RADIO	10	
	11													12	
	13													14	
	15								0 VA		1	20 A	PAGING SYSTEM	16	
	17													18	
	19													20	
	21													22	
	23	AHU 98-05 CONTROLS	20 A	1			0 VA							24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Branch Panel: BL2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 18,000
Mains Type: MCB
Mains Rating: 100 A
MCB Rating:

Notes:
NEW PANELBOARD

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	CU-1	25 A	2	1665 VA			0 VA			1	20 A	SPARE	2	
--	3	--	--	--		1665 VA			0 VA		1	20 A	SPARE	4	
	5	ELEC RM RECS	20 A	1			360 VA			0 VA	1	20 A	SPARE	6	
	7	SPARE	20 A	1	0 VA			0 VA			1	20 A	SPARE	8	
	9	SPARE	20 A	1		0 VA			0 VA		1	20 A	SPARE	10	
	11	SPARE	20 A	1			0 VA			0 VA	1	20 A	SPARE	12	
	13	Space	--	1	--			--			1	--	Space	14	
	15	Space	--	1		--			--		1	--	Space	16	
	17	Space	--	1			--			--	1	--	Space	18	
	19	Space	--	1	--			--			1	--	Space	20	
	21	Space	--	1		--			--		1	--	Space	22	
	23	Space	--	1			--			--	1	--	Space	24	
	25	Space	--	1	--			--			1	--	Space	26	
	27	Space	--	1		--			--		1	--	Space	28	
	29	Space	--	1			--			--	1	--	Space	30	
				Total Load:	1665 VA			1665 VA			360 VA				
				Total Amps:	16 A			16 A			3 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	3330 VA	100.00%	3330 VA		
Receptacle	360 VA	100.00%	360 VA		
				Total Conn. Load:	3690 VA
				Total Est. Demand:	3690 VA
				Total Conn. Current:	10 A
				Total Est. Demand Current:	10 A

Notes:

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO. 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL PANEL SCHEDULES

SHEET
E-007

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: HN1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR ED CLOSET RM 2122, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1							0 VA			1	20 A	Spare	2	
	3	LTG GIFT SHOP / ER	20 A	1	0 VA				0 VA		1	20 A	Spare	4	
	5	LTG CORR.	20 A	1		0 VA		0 VA			1	20 A	Spare	6	
	7	Spare	20 A	1	0 VA				0 VA		2	20 A	OUTSIDE LTG	8	
	9	Spare	20 A	1		0 VA				0 VA	--	--	--	10	--
	11	Spare	20 A	1			0 VA							12	
	13	Spare	20 A	1	0 VA									14	
	15	Spare	20 A	1		0 VA								16	
	17	Spare	20 A	1			0 VA							18	
	19	XFMR - PN1A	20 A	3	0 VA									20	
--	21	--	--	--		0 VA								22	
--	23	--	--	--			0 VA							24	
	25	PANEL - DP HELIPAD	20 A	3	0 VA									26	
--	27	--	--	--		0 VA								28	
--	29	--	--	--			0 VA							30	
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: HN1B

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR RAD. CLOSET, FED FROM SWBD-6

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG FILM VIEW/STOR	20 A	1	0 VA			0 VA			2	20 A	Spare	2	
	3	LTG RAD. WAITING	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	LTG. SOUND/MAMMO/OFFICE	20 A	1			0 VA			0 VA	1	20 A	LTG ENDOSCOPY 9-98	6	
	7	LTG CATH. LAB/CT SCAN	20 A	1	0 VA			0 VA			1	20 A	LTG ENDOSCOPY 9-98	8	
	9	LTG RAD. CORRIDOR	20 A	1		0 VA								10	
	11	LTG R&F/TOMO	20 A	1			0 VA							12	
	13	XFMR LN1B	20 A	3	0 VA									14	
--	15	--	--	--		0 VA								16	
--	17	--	--	--			0 VA							18	
	19	LTG CCL	20 A	1	0 VA			0 VA			3	20 A	LIEBERT UNIT UPS RM	20	
	21								0 VA		--	--	--	22	--
	23	LTG CCL	20 A	1			0 VA			0 VA	--	--	--	24	--
	25							0 VA			3	20 A	LIEBERT ROOF TOP CONDENSER	26	
	27								0 VA		--	--	--	28	--
	29									0 VA	--	--	--	30	--
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: HN1C

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR OB HALLWAY RM 2115, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	XFMR - LN1C	20 A	3	0 VA			0 VA			1	20 A	LTG OB WAITING & MAINT. CORR.	2	
--	3	--	--	--		0 VA			0 VA		1	20 A	CONTACTOR PARKING LTG	4	
--	5	--	--	--			0 VA			0 VA	1	20 A	LTG OB NE CORR. & AUDITORIUM	6	
	7	LTG TOILET	20 A	1	0 VA			0 VA			1	20 A	CONTACTOR PARKING LTG	8	
	9	LTG ADMIT. AREA	20 A	1		0 VA			0 VA		1	20 A	CONTACT. PARKING LTG...	10	
	11	LTG LOBBY GIFT SHOP	20 A	1			0 VA			0 VA	1	20 A	CONTACT. PARKING LTG N. LOT	12	
	13	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LN1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR ED CLOSET RM 2122, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC ER 17, 239	20 A	1	0 VA			0 VA			3	20 A	EWL	2	
	3	REC ER 16	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	REC ER 16, ER 17	20 A	1			0 VA			0 VA	--	--	--	6	--
	7	MICROWAVE 227	20 A	1	0 VA			0 VA			1	20 A	REC NURSE STATION 254	8	
	9	COFFEE MAKER 227	20 A	1		0 VA			0 VA		1	20 A	REC NURSE STATION 254	10	
	11	FRIDGE 227	20 A	1			0 VA							12	
	13	TRIAGE AREA PRINTER	20 A	1	0 VA									14	
	15								0 VA		1	20 A	258B, STAGING	16	
	17									0 VA	1	20 A	258A, 275 CORR., STAGING	18	
	19							0 VA			1	20 A	REC ER 11	20	
	21	REC NURSE STATION 254	20 A	1		0 VA			0 VA		1	20 A	RTU LTG	22	
	23	REC NURSE STATION 254	20 A	1			0 VA			0 VA	1	20 A	REC NURSE STATION 254	24	
	25	REC NURSE STATION 254	20 A	1	0 VA			0 VA			1	20 A	U.H. 770 / P.B. 762	26	
	27	REC ER 9	20 A	1		0 VA			0 VA		1	20 A	EF - 275, AMBULANCE BAY	28	
	29	REC ER 8	20 A	1			0 VA							30	
	31	REC ER 7	20 A	1	0 VA			0 VA			1	20 A	REC CDU 214	32	
	33	EWC	20 A	1		0 VA			0 VA		1	20 A	REC CDU 215	34	
	35									0 VA	1	20 A	REC CDU 216	36	
	37	GEN. REC CDU	20 A	1	0 VA			0 VA			1	20 A	REC CDU 217	38	
	39	GEN. REC CDU	20 A	1		0 VA			0 VA		1	20 A	REC CDU 221	40	
	41	GEN. REC CDU	20 A	1			0 VA			0 VA	1	20 A	REC NURSE STATION CDU	42	
	43	REC LOBBY	20 A	1	0 VA			0 VA			1	20 A	REC BELOW PANEL	44	
	45	2ND FLOOR LAB - 208V	20 A	2		0 VA			0 VA		1	20 A	EF - GIFT SHOP, EF29-02&03,...	46	
--	47	--	--	--			0 VA			0 VA	1	20 A	CATV AMPLIFIERS	48	
	49	ICE MACHINE	20 A	1	0 VA			0 VA			1	20 A	REC ER 12	50	
	51	REC PHYSICIAN LOUNGE	20 A	1		0 VA			0 VA		1	20 A	REC ER 13	52	
	53													54	
	55							0 VA			1	20 A	REC 244 CORR.	56	
	57								0 VA		1	20 A	REC ER 19,20	58	
	59									0 VA	1	20 A	REC ER 18	60	
	61							0 VA			1	20 A	REC ER 10	62	
	63	TV REC 260-264	20 A	1		0 VA			0 VA		1	20 A	REC ER 15	64	
	65	PANEL LN1B	20 A	3			0 VA			0 VA	1	20 A	EF - ER3	66	
--	67	--	--	--	0 VA			0 VA			1	20 A	REC ER 6	68	
--	69	--	--	--		0 VA			0 VA		1	20 A	REC ER 5	70	
	71	PHARMACY	20 A	1			0 VA			0 VA	1	20 A	PYXIS UNITS 209 - CORR.	72	
	73	PHARMACY	20 A	1	0 VA			0 VA			1	20 A	REC CLEAN ROOM	74	
	75	PHARMACY	20 A	1		0 VA								76	
	77													78	
	79	PHARMACY	20 A	1	0 VA									80	
	81													82	
	83													84	
				Total Load:	0 VA			0 VA			0 VA				
				Total Amps:	0 A			0 A			0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: LN1B

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR RAD. CLOSET, FED FROM SWBD-6

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG OUTPATIENT RAD. WTG RM	20 A	1	0 VA			0 VA			1	20 A	REC FILM STORAGE	2	
	3	LTG CATH LAB	20 A	1		0 VA			0 VA		1	20 A	REC RAD. STORAGE	4	
	5	LTG TOMO	20 A	1			0 VA			0 VA	1	20 A	FILM VIEWERS	6	
	7	LTG R&F	20 A	1	0 VA			0 VA			1	20 A	REC CATH. RECOVERY	8	
	9	LTG MAMMO SOUND	20 A	1		0 VA			0 VA		1	20 A	REC CATH. RECOVERY	10	
	11	REC RMS 254, 255, 256	20 A	1			0 VA			0 VA	1	20 A	PEDESTAL 225	12	
	13	REC RM 225	20 A	1	0 VA			0 VA			1	20 A	PAIN CART	14	
	15	REC RM 225	20 A	1		0 VA			0 VA		1	20 A	REC TOILET/CORRIDOR	16	
	17	REC RM 229	20 A	1			0 VA			0 VA	1	20 A	INVERYS CONTROL	18	
	19	REC STAFF BRK RM FRIDGE	20 A	1	0 VA			0 VA			1	20 A	Spare	20	
	21	REC STAFF BRK RM	20 A	1		0 VA			0 VA		1	20 A	REC COMPUTER RM	22	
	23	IR CONTROL - 229	20 A	1			0 VA			0 VA	1	20 A	REC LT SCAN	24	
	25	AIR HANDLER	20 A	3	0 VA			0 VA			1	20 A	REC SOUND	26	
--	27	--	--	--		0 VA			0 VA		1	20 A	REC SOUND	28	
--	29	--	--	--			0 VA			0 VA	1	20 A	CT AUTO DOOR	30	
	31	CRAC-1	50 A	3	0 VA			0 VA			1	20 A	X-RAY RM PC	32	
--	33	--	--	--		0 VA			0 VA		1	20 A	CT CONTROLLER POWER SUPPLY	34	
--	35	--	--	--			0 VA			0 VA	1	20 A	LTG ENDO.	36	
	37	REC DOC. VIEWING	20 A	1	0 VA			0 VA			1	20 A	REC X-RAY CONTROL RM	38	
	39	MASS VIEWER	20 A	1		0 VA			0 VA		1	20 A	REC X-RAY WORK RM	40	
	41	REC RAD. OFFICE	20 A	1			0 VA			0 VA	1	20 A	REC X-RAY WORK RM	42	
	43	REC RAD. OFFICE	20 A	1	0 VA			0 VA			1	20 A	REC CT CONTROL RM	44	
	45	FILM VIEWER	20 A	1		0 VA			0 VA		1	20 A	REC CT RM	46	
	47	REC SOUND	20 A	1			0 VA			0 VA	1	20 A	REC CT CONTROL RM	48	
	49	REC MAMMO	20 A	1	0 VA			0 VA			1	20 A	REC READING	50	
	51	REC DRESSING/STORAGE	20 A	1		0 VA			0 VA		1	20 A	REC NUC. MED.	52	
	53	REC R&F	20 A	1			0 VA			0 VA	1	20 A	REC NUC. MED.	54	
	55	REC R&F 256, 258	20 A	1	0 VA			0 VA			1	20 A	REC OUTPATIENT WAITING	56	
	57								0 VA		1	20 A	REC F.V. LIB	58	
	59	SODAS MACHINE - DR. LOUNGE	20 A	1			0 VA			0 VA	1	20 A	REC RM 236	60	
	61	SURGERY LTG CATH LAB	20 A	1	0 VA			0 VA			1	20 A	REC RM 236	62	
	63	MAVIG TRANS	20 A	1		0 VA			0 VA		1	20 A	REC RM 236	64	
	65	Spare	20 A	1			0 VA			0 VA	1	20 A	REC RM 239	66	
	67	REC X-RAY CONTROL RM	20 A	1	0 VA			0 VA			1	20 A	REC RM 239	68	
	69	Spare	20 A	1		0 VA			0 VA		1	20 A	REC RM 239	70	
	71	REC X-RAY CONTROL RM	20 A	1			0 VA			0 VA	1	20 A	Spare	72	
	73	REC STAFF BREAK RM	20 A	1	0 VA			0 VA			1	20 A	NUC. MED. READING RM	74	
	75	REC STAFF BREAK RM	20 A	1		0 VA			0 VA		1	20 A	RADIOLOGY MAG. DOOR HOLDER	76	
	77	REC STAFF BREAK RM MICROWAVE	20 A	1			0 VA			0 VA	1	20 A	RM 225 NORTH WALL	78	
	79	CRAC-CU1	20 A	3	0 VA			0 VA			3	20 A	X-RAY LIEBBERT AHU-6601	80	
--	81	--	--	--		0 VA			0 VA		--	--	--	82	--
--	83	--	--	--			0 VA			0 VA	--	--	--	84	--
				Total Load:	0 VA			0 VA			0 VA				
				Total Amps:	0 A			0 A			0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: LN1BE

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR RAD. CLOSET, FED FROM SWBD-6

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC READING RM 2476-A	20 A	1	0 VA			0 VA			3	20 A	Spare	2	
	3	REC READING RM 2476-B	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	REC READING RM 2476-D	20 A	1			0 VA			0 VA	--	--	--	6	--
	7	REC READING RM 2476-E	20 A	1	0 VA			0 VA			3	20 A	AHU CT SCAN RM 2011	8	
	9	Spare	20 A	2		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	PEDESTAL 225	20 A	1	0 VA			0 VA			2	20 A	Spare	14	
	15	NORTH WALL 225	20 A	1		0 VA			0 VA		--	--	--	16	--
	17	NORTH WALL 225	20 A	1			0 VA			0 VA	1	20 A	FIRE ALARM	18	
	19										1	20 A	DUAL DUCT TRANSFORMER	20	
	21	X-RAY COND. UNIT CT 2011	20 A	3		0 VA			0 VA		1	20 A	Spare	22	
--	23	--	--	--			0 VA			0 VA	2	20 A	Spare	24	
--	25	--	--	--	0 VA			0 VA			--	--	--	26	--
	27	REC RM 229	20 A	1		0 VA			0 VA		2	20 A	Spare	28	
	29	REC RM 229	20 A	1			0 VA			0 VA	--	--	--	30	--
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA			0 VA				
				Total Amps:	0 A			0 A			0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LN1C

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR HALLWAY BY OB & RM 2216, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RECEPTION DESK	20 A	1	0 VA			0 VA			1	20 A	REC AT PBX	2	
	3	RECEPTION LTG - LOBBY	20 A	1		0 VA			0 VA		1	20 A	REC AT PBX	4	
	5	RECEPTION LTG - LOBBY	20 A	1			0 VA							6	
	7	REC DOCTOR LIBRARY	20 A	1	0 VA			0 VA			1	20 A	EWC	8	
	9	REC DOCTOR LIBRARY	20 A	1		0 VA			0 VA		1	20 A	EWC	10	
	11	REC DOCTOR LIBRARY	20 A	1			0 VA			0 VA	1	20 A	REC JANITOR CLOSET	12	
	13	REC DOCTOR LIBRARY	20 A	1	0 VA			0 VA			1	20 A	REC ACCT./CASHIER	14	
	15	REC DOCTOR LIBRARY	20 A	1		0 VA			0 VA		1	20 A	REC ACCT./CASHIER	16	
	17	REC DOCTOR LIBRARY	20 A	1			0 VA			0 VA	1	20 A	REC ACCT./CASHIER	18	
	19	MICROWAVE/FRDG DR. LOUNGE	20 A	1	0 VA			0 VA			1	20 A	REC PBX NORTH	20	
	21	COFFEE/DISPOSAL DR. LOUNGE	20 A	1		0 VA			0 VA		1	20 A	REC PBX NE	22	
	23	COLD FOOD CART DR. LOUNGE	20 A	1			0 VA			0 VA	1	20 A	REC PBX SE	24	
	25	REC MED REC SAT	20 A	1	0 VA			0 VA			1	20 A	REC PBX SW	26	
	27	REC MED REC SAT	20 A	1		0 VA			0 VA		1	20 A	REC PATIENT ACC. OFFICES	28	
	29	COPIER MED REC	20 A	1			0 VA			0 VA	1	20 A	REC PATIENT ACC. OFFICES	30	
	31	REC DOCTOR LOUNGE	20 A	1	0 VA			0 VA			1	20 A	REC. LOBBY BUG LIGHT	32	
	33	REC ADMITTING COFFEE	20 A	1		0 VA			0 VA		1	20 A	REC GUILD RM	34	
	35	REC ADMITTING FRIDGE	20 A	1			0 VA			0 VA	1	20 A	REC 265 DISCHARGE	36	
	37	REC ED MGR	20 A	1	0 VA			0 VA			1	20 A	REC ER WAITING	38	
	39	LIBRARIAN OFFICE REC	20 A	1		0 VA			0 VA		1	20 A	REC 269 MGR	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	REC 268 REGIS.	42	
	43	PANEL - PARKING GARAGE	20 A	3	0 VA			0 VA			1	20 A	LTG ADMISSIONS	44	
--	45	--	--	--		0 VA								46	
--	47	--	--	--			0 VA				1	20 A	REC BATH 270/201 CORR.	48	
	49	REC PARKING GARAGE	20 A	1	0 VA			0 VA			1	20 A	TIME CLOCK	50	
	51	GATE CONTROL	20 A	1		0 VA			0 VA		1	20 A	GREETERS DESK GLASS LTG	52	
	53	GATE CONTROL	20 A	1			0 VA			0 VA	1	20 A	REC LIBRARY/LOUNGE	54	
	55	REC 266 WORK RM	20 A	1	0 VA			0 VA			1	20 A	REC PHONE RM	56	
	57	REC 266 WORK RM	20 A	1		0 VA								58	
	59	REC 266 WORK RM	20 A	1			0 VA							60	
	61	SPARE-RM 266	20 A	1	0 VA			0 VA			2	20 A	FOOD WARMER DR. LOUNGE	62	
	63									0 VA	--	--	--	64	--
	65	COFFEE MAKER DOCTOR LOUNGE	20 A	2		0 VA			0 VA		3	20 A	PANEL LN2C	66	
--	67	--	--	--	0 VA			0 VA			--	--	--	68	--
	69	FOOD WARMER DOCTOR LOUNGE	20 A	2		0 VA			0 VA		--	--	--	70	--
--	71	--	--	--			0 VA							72	
	73													74	
	75													76	
	77													78	
	79													80	
	81													82	
	83													84	
				Total Load:	0 VA			0 VA			0 VA				
				Total Amps:	0 A			0 A			0 A				

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #3. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS

ELECTRICAL EXISTING PANEL SCHEDULES

SHEET

E-008

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: HN1D

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 200 A | **MCB Rating:**

Notes:
2ND FLOOR CCL HALLWAY, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG CAFF.	20 A	1	0 VA			0 VA			1	20 A	CATH LAB LTG	2	
	3	LTG ACCOUNTING	20 A	1		0 VA			0 VA		1	20 A	CATH LAB CORR. LTG	4	
	5	LTG ACCOUNTING	20 A	1			0 VA			0 VA	1	20 A	LTG CORR.	6	
	7	LTG LOUNGE	20 A	1	0 VA									8	
	9	PARKING GARAGE LTG	20 A	2		0 VA			0 VA		1	20 A	LTG DCCON/PREP. (GASROOM)	10	
--	11	--	--	--			0 VA							12	
	13	XFMR - LN1D	20 A	3	0 VA									14	
--	15	--	--	--		0 VA								16	
--	17	--	--	--			0 VA							18	
	19	WASHER GRD FLOOR	20 A	3	0 VA									20	
--	21	--	--	--		0 VA								22	
--	23	--	--	--			0 VA							24	
	25	WASHER GRD FLOOR	20 A	3	0 VA									26	
--	27	--	--	--		0 VA								28	
--	29	--	--	--			0 VA							30	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: KP-1

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 225 A | **MCB Rating:**

Notes:
2ND FLOOR KITCHEN, FED FROM PANEL MCP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	Spare	20 A	1	0 VA			0 VA			2	20 A	CONVEYOR MICROWAVE	2	
	3	Spare	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	KITCHEN WASHER FANS	20 A	3			0 VA			0 VA	3	20 A	OLD FRYER	6	
--	7	--	--	--	0 VA			0 VA			--	--	--	8	--
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
	11	GARBAGE DISPOSAL	20 A	3			0 VA			0 VA	3	20 A	HOOD FAN	12	
--	13	--	--	--	0 VA			0 VA			--	--	--	14	--
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
	17	MID LIB HEAT PUMP	20 A	3			0 VA			0 VA	3	20 A	PLATE HEATER	18	
--	19	--	--	--	0 VA			0 VA			--	--	--	20	--
--	21	--	--	--		0 VA			0 VA		--	--	--	22	--
	23	GARBAGE DISPOSAL	20 A	3			0 VA			0 VA	3	20 A	Spare	24	
--	25	--	--	--	0 VA			0 VA			--	--	--	26	--
--	27	--	--	--		0 VA			0 VA		--	--	--	28	--
	29	Spare	20 A	3			0 VA			0 VA	3	20 A	ICE MACHINE	30	
--	31	--	--	--	0 VA			0 VA			--	--	--	32	--
--	33	--	--	--		0 VA			0 VA		--	--	--	34	--
--	35	STEAM KETTLE	20 A	3			0 VA			0 VA	2	20 A	PLATE WARMER	36	
--	37	--	--	--	0 VA			0 VA			--	--	--	38	--
--	39	--	--	--		0 VA			0 VA		2	20 A	Spare	40	
	41	Spare	20 A	1			0 VA			0 VA	--	--	--	42	--
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: A

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 100 A | **MCB Rating:**

Notes:
PENTHOUSE A, FED FROM PANEL DPA (SWBD-6, SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	EXHAUST FAN	20 A	1	0 VA			0 VA			1	20 A	CONTROL PUMP	2	
	3								0 VA		1	20 A	RECEPTACLE	4	
	5													6	
	7													8	
	9													10	
	11													12	
		Total Load:			0 VA			0 VA		0 VA					
		Total Amps:			0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Switchboard: RDP

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: None | **Phases:** Not Computed | **Wires:** Not Computed
A.I.C. Rating: | **Mains Type:** MCB | **Mains Rating:** 600 A | **MCB Rating:** 600 A

Notes:
2ND FLOOR RAD. CLOSET, FED FROM SWBD-6

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1						
2						
3						
4						
5						
6						
7	XFMR (LN1B)	3	100 A	100 A	0 VA	
8	TOMO RM. XFMR	3	100 A	100 A	0 VA	
9	CATH LAB	3	100 A	100 A	0 VA	
10	Spare	3	100 A	100 A	0 VA	
11	SIEMENS MP/CT 2008	3	100 A	100 A	0 VA	
12	XFMR RM 2256	3	100 A	100 A	0 VA	
13	CT SCAN	3	100 A	100 A	0 VA	
14	GE RM	3	100 A	100 A	0 VA	
15						
16	XFMR SYSTO RM	3	100 A	100 A	0 VA	
17						
18						
19						
20						
21						
22						
				Total Conn. Load:	0 VA	
				Total Amps:	Not Computed	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: Not Computed
				Total Est. Demand Current: Not Computed

Notes:

Branch Panel: LN1D

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 200 A | **MCB Rating:**

Notes:
2ND FLOOR CCL HALLWAY, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG SURGERY WAITING	20 A	1	0 VA			0 VA			1	20 A	AUTOMATIC DOORS	2	
	3	LTG SURGERY WAITING	20 A	1		0 VA			0 VA		1	20 A	AUTOMATIC DOORS	4	
	5	SPARE	20 A	2			0 VA			0 VA	1	20 A	AUTOMATIC DOORS	6	
--	7	--	--	--	0 VA			0 VA			1	20 A	REC INPATIENT RECOVERY	8	
	9	SHORT STAY TV REC	20 A	1		0 VA			0 VA		1	20 A	REC INPATIENT RECOVERY	10	
	11	REC CARE STATION	20 A	1			0 VA			0 VA	1	20 A	REC INPATIENT RECOVERY	12	
	13	REC RMS 4,5,6 DIRTY UTILITY	20 A	1	0 VA			0 VA			1	20 A	REC CORRIDOR	14	
	15	REC RMS 2,3	20 A	1		0 VA			0 VA		1	20 A	FRIDGE 158	16	
	17	REC TOILET CARE STATION	20 A	1			0 VA			0 VA	1	20 A	MICROWAVE 158	18	
	19	REC CLEAN SUPPLY	20 A	1	0 VA			0 VA			1	20 A	REC LOUNGE 158	20	
	21	REC CLEAN SUPPLY	20 A	1		0 VA			0 VA		1	20 A	REC ROOM 163,164	22	
	23	REC SCHEDULE	20 A	1			0 VA			0 VA	1	20 A	FRIDGE 163	24	
	25	REC PREP/HOLD	20 A	1	0 VA			0 VA			1	20 A	MICROWAVE 163	26	
	27	REC INPATIENT	20 A	1		0 VA			0 VA		1	20 A	REC NURSE STATION 167	28	
	29	REC INPATIENT	20 A	1			0 VA			0 VA	1	20 A	REC NURSE STATION 167	30	
	31	REC WAITING 154	20 A	1	0 VA									32	
	33	REC WAITING 152,154	20 A	1		0 VA			0 VA		1	20 A	REC RM 130,125	34	
	35	Spare	20 A	1			0 VA			0 VA	1	20 A	REC RM 124,125	36	
	37	Spare	20 A	1	0 VA			0 VA			1	20 A	REC RM 128,129	38	
	39	Spare	20 A	1		0 VA			0 VA		1	20 A	REC RM 127,128	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	REC RM 126,127	42	
	43	REC BUS. OFFICE	20 A	1	0 VA			0 VA			1	20 A	REC ACCOUNTING	44	
	45	REC BUS. OFFICE	20 A	1		0 VA			0 VA		1	20 A	REC ACCOUNTING	46	
	47	REC BUS. OFFICE	20 A	1			0 VA			0 VA	1	20 A	REC ACCOUNTING	48	
	49	REC BUS. OFFICE	20 A	1	0 VA			0 VA			1	20 A	REC ACCOUNTING	50	
	51	REC BUS. OFFICE	20 A	1		0 VA			0 VA		1	20 A	REC ACCOUNTING	52	
	53	REC BUS. OFFICE	20 A	1			0 VA			0 VA	1	20 A	REC UNDER PANELS	54	
	55	REC LOCKER RM 176	20 A	1	0 VA			0 VA			1	20 A	REC VENDING RM	56	
	57	REC RM 172, 179	20 A	1		0 VA			0 VA		1	20 A	REC RM 131	58	
	59	REC RM 171	20 A	1			0 VA			0 VA	1	20 A	PRINTER REC RM 134	60	
	61	Spare	20 A	1	0 VA			0 VA			2	20 A	DATA PROCESS COMPRESSOR	62	
	63	PHASE II HOLDING TV REC	20 A	1		0 VA			0 VA		--	--	--	64	--
	65	Spare	20 A	1			0 VA			0 VA	1	20 A	REC COMPUTER RM	66	
	67	Spare	20 A	1	0 VA			0 VA			1	20 A	REC COMPUTER RM	68	
	69	Spare	20 A	1		0 VA			0 VA		1	20 A	REC COMPUTER RM	70	
	71	Spare	20 A	1			0 VA			0 VA	1	20 A	REC COMPUTER RM	72	
	73	Spare	20 A	1	0 VA			0 VA			1	20 A	REC COMPUTER RM	74	
	75	Spare	20 A	1		0 VA			0 VA		1	20 A	REC COMPUTER RM	76	
	77	Spare	20 A	1			0 VA			0 VA	1	20 A	AS400 UPS EAST WALL	78	
	79	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	80	
	81	Spare	20 A	1		0 VA			0 VA		2	20 A	UPS	82	
	83	Spare	20 A	1			0 VA			0 VA	--	--	--	84	--
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: KP-2

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 225 A | **MCB Rating:**

Notes:
2ND FLOOR KITCHEN, FED FROM PANEL MCP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	CAL ROD HEATER	20 A	2	0 VA			0 VA			1	20 A	Spare	2	
--	3	--	--	--		0 VA			0 VA		3	20 A	MEIKO DISHWASHER	4	
	5	REC UNDER HOOD	20 A	1			0 VA			0 VA	--	--	--	6	--
	7	REC UNDER HOOD	20 A	1	0 VA			0 VA			--	--	--	8	--
	9	REC UNDER HOOD	20 A	1		0 VA			0 VA		2	20 A	220 COLUMN UNDER HOOD	10	
	11	REC UNDER HOOD	20 A	1			0 VA			0 VA	--	--	--	12	--
	13	GRILL BY SERV. LINE	20 A	3	0 VA			0 VA			3	20 A	MEIKO PULPER	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
--	17	--	--	--			0 VA			0 VA	--	--	--	18	--
	19	STEAM TABLE	20 A	3	0 VA			0 VA			3	20 A	Spare	20	
--	21	--	--	--		0 VA			0 VA		--	--	--	22	--
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	Spare	20 A	3	0 VA			0 VA			3	20 A	TURBO CHEF	26	
--	27	--	--	--		0 VA			0 VA		--	--	--	28	--
--	29	--	--	--			0 VA			0 VA	--	--	--	30	--
	31	OLD PLATE HEATER	20 A	3	0 VA			0 VA			3	20 A	NEW FRYER	32	
--	33	--	--	--		0 VA			0 VA		--	--	--	34	--
--	35	--	--	--			0 VA			0 VA	--	--	--	36	--
	37	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	42	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LP1

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 150 A | **MCB Rating:**

Notes:
2ND FLOOR OB, FED FROM PANEL PDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 510	20 A	1	0 VA			0 VA			1	20 A	REC GAS COLUMN C-SECTION RM	2	
	3	REC RM 511	20 A	1		0 VA			0 VA		1	20 A	REC N. & W. WALL C-SECTION...	4	
	5	REC RM 512	20 A	1			0 VA			0 VA	1	20 A	REC S. & E. WALL C-SECTION	6	
	7	REC RM 513	20 A	1	0 VA			0 VA			1	20 A	REC NOURISH & MEDS	8	
	9	REC RM 514 & ANTEROOM	20 A	1		0 VA			0 VA		1	20 A	REC STAFF LOUNGE, NE CORR.,...	10	
	11	REC RM 515	20 A	1			0 VA			0 VA	1	20 A	REC SHOWER, LOCKER	12	
	13	REC RM 516	20 A	1	0 VA			0 VA			1	20 A	REC TOILET, JANITOR, CORR.	14	
	15	REC RM 517	20 A	1		0 VA			0 VA		1	20 A	REC LEVEL 1 NURSERY	16	
	17	REC RM 518	20 A	1			0 VA			0 VA	1	20 A	REC LEVEL 1 NURSERY	18	
	19	REC SOILED UTILITY	20 A	1	0 VA			0 VA			1	20 A	REC LEVEL 1 NURSERY	20	
	21	REC RM 519	20 A	1		0 VA			0 VA		1	20 A	REC LEVEL 1 NURSERY	22	
	23	REC RM 520	20 A	1			0 VA			0 VA	1	20 A	REC ELEC. CLOSET, WAITING	24	
	25	REC NURSE MAN.,REPORT,CORR.	20 A	1	0 VA			0 VA			1	20 A	REC NURSE MAN. REPORT, CORR.	26	
	27	STERILIZER	20 A	1		0 VA			0 VA		1	20 A	REC NURSE MAN. REPORT, CORR.	28	
	29	ICE MACHINE	20 A	1			0 VA			0 VA	1	20 A	CUH-1 N. VESTIBULE	30	
	31	EF-9	20 A	1	0 VA			0 VA			1	20 A	REC OB EQUIPMENT	32	
	33	REC LEVEL 2 NURSERY	20 A	1		0 VA			0 VA		1	20 A	REC CLEAN STOR., E. NURSE...	34	
	35	REC LEVEL 1,2 NURSERY	20 A	1			0 VA			0 VA	1	20 A	REC NURSE STATION	36	
	37	REC WORKROOM	20 A	1	0 VA			0 VA			1	20 A	REC REPORT FRIDGE, MICROWAVE	38	
	39	REC W. MULTIPURPOSE	20 A	1		0 VA			0 VA		2	20 A	EF-4	40	
	41	REC E. MULTIPURPOSE	20 A	1			0 VA			0 VA	--	--	--	42	--
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1P1

Location: | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** MLO | **Mains Rating:** 225 A | **MCB Rating:**

Notes:
1ST FLOOR NEAR ELEVATOR A, FED FROM PANEL PDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RM 152	20 A	1	0 VA			0 VA			1	20 A	PROD. LINE DIR.	2	
	3	RM 151	20 A	1		0 VA			0 VA		1	20 A	VISITOR LOUNGE	4	
	5	RM 150	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	RM 149	20 A	1	0 VA			0 VA			1	20 A	CONFERNECE ROOM RECS	8	
	9	RM 148	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	RM 147	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	RM 146	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	RM 145	20 A	1		0 VA			0 VA		1	20 A	NURSE STATION IN CONF. RM	16	
	17	IT RM OFFICE	20 A	1			0 VA			0 VA	1	20 A	LIVING & DINING RM	18	
	19	IT RM WORKSTATION	20 A	1	0 VA			0 VA			1	20 A	FRIDGE	20	
	21	IT RM WORKSTATION	20 A	1		0 VA			0 VA		1	20 A	DISHWASHER	22	
	23	IT RM WORKSTATION	20 A	1			0 VA			0 VA	1	20 A	ICE MACHINE	24	
	25	IT OFFICES	20 A	1	0 VA			0 VA			1	20 A	ACTIVITY ROOM	26	
	27	SLEEP LAB 130	20 A	1		0 VA			0 VA		1	20 A	NUTRITION OFFICE	28	
	29	SLEEP LAB 130	20 A	1			0 VA			0 VA	1	20 A	SNF STORAGE	30	
	31	SLEEP LAB 130 CENTRAL	20 A	1	0 VA			0 VA			1	20 A	PO-OT-ST STORAGE	32	
	33	DICTATION	20 A	1		0 VA			0 VA		1	20 A	SNF EDUCATION	34	
	35	NURSE STATION	20 A	1			0 VA			0 VA	1	20 A	NURSE MANAGER	36	
	37	IT OFFICE	20 A	1	0 VA			0 VA			1	20 A	STAFF BREAK	38	
	39	NURSE STATION FRIDGE	20 A	1		0 VA			0 VA		1	20 A	REC KITCHENETTE	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	FRIDGE	42	
	43	IT 226V REC	20 A	2	0 VA			0 VA			2	20 A	RANGE	44	
--	45	--	--	--		0 VA			0 VA		--	--	--	46	--
	47	KITCHENETTE GARBAGE DISP.	20 A	1			0 VA			0 VA	1	20 A	TUB RM CEL HEAT	48	
	49	ADL KITCHEN GARBAGE DISP.	20 A	1	0 VA			0 VA			1	20 A	COMPACTOR HOOD (HALL REC)	50	
	51	Spare	20 A	1		0 VA			0 VA		1	20 A	CONFERENCE RM	52	
	53	NURSE STATION MICRO	20 A	1			0 VA			0 VA	1	20 A	HALL REC	54	
	55	WATER COOLER	20 A	1	0 VA			0 VA			1	20 A	CONFERENCE RM	56	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #3. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS

ELECTRICAL EXISTING PANEL SCHEDULES

SHEET

E-009

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: 2P1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR HALLWAY MED. SURGERY, FED FROM PANEL PDP (NORTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 212	20 A	1	0 VA			0 VA			1	20 A	REC RM 213	2	
	3	REC RM 211	20 A	1		0 VA			0 VA		1	20 A	REC RM 214	4	
	5	REC RM 210	20 A	1			0 VA			0 VA	1	20 A	REC RM 215	6	
	7	REC RM 206	20 A	1	0 VA			0 VA			1	20 A	REC RM 216	8	
	9	REC RM 205	20 A	1		0 VA			0 VA		1	20 A	NURSING DIR.	10	
	11	REC RM 204	20 A	1			0 VA			0 VA	1	20 A	REC CLEAN UTILITY	12	
	13	REC RM 203	20 A	1	0 VA			0 VA			1	20 A	REC NUTRITION	14	
	15	REC RM 202	20 A	1		0 VA			0 VA		1	20 A	REC REPORT (UCLTS)	16	
	17	REC RM 201	20 A	1			0 VA			0 VA	1	20 A	NURSE STATION	18	
	19	REC RM 200	20 A	1	0 VA			0 VA			1	20 A	REC VISITOR LOUNGE	20	
	21	REC RM 209	20 A	1		0 VA			0 VA		1	20 A	SOCIAL WORKER	22	
	23	REC RM 208	20 A	1			0 VA			0 VA	1	20 A	PT SATELLITE	24	
	25	REC RM 207	20 A	1	0 VA									26	
	27	EXHAUST VENT 14-03	20 A	1		0 VA			0 VA		1	20 A	CLEAN UTILITY	28	
	29	CLEAN UTILITY	20 A	1			0 VA			0 VA	1	20 A	TRANSLOGIC	30	
	31	CLEAN UTILITY	20 A	1	0 VA			0 VA			1	20 A	REC STORAGE 2170	32	
	33	CLEAN UTILITY	20 A	1		0 VA			0 VA		1	20 A	REC PEDS. SECURITY	34	
	35									0 VA	1	20 A	ICE MACHINE	36	
	37							0 VA			1	20 A	UNDERCOUNTER FRIDGE	38	
	39	3155 WHEELCHAIR STOR. REC	20 A	1		0 VA								40	
	41													42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2P2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR INFUSION, FED FROM PANEL PDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RM 3305 REC	20 A	1	0 VA			0 VA			1	20 A	NURSE STATION REC - INFUSION	2	
	3	RM 3304 REC	20 A	1		0 VA			0 VA		1	20 A	RM 3146 REC & TUB RM	4	
	5	RM 3303 REC	20 A	1			0 VA			0 VA	1	20 A	RM 3146 REC - LACTATION	6	
	7	RM 3302 REC	20 A	1	0 VA			0 VA			1	20 A	RM 3303 REC	8	
	9	RM 3301 REC	20 A	1		0 VA			0 VA		1	20 A	COFFEE MAKER	10	
	11	RM 3100 GFCI - DIALYSIS	20 A	1			0 VA			0 VA	1	20 A	ICE MACHINE	12	
	13	RM 3100 GFCI - DIALYSIS	20 A	1	0 VA			0 VA			1	20 A	RM 3125 REC - HOUSE SUPE	14	
	15	RM 3432 REC	20 A	1		0 VA			0 VA		1	20 A	RM 3125 REC - HOUSE SUPE	16	
	17	RM 3434 REC	20 A	1			0 VA			0 VA	1	20 A	RM 3125 REC - HOUSE SUPE	18	
	19	RM 3435 REC	20 A	1	0 VA			0 VA			1	20 A	NURSE STATION REC	20	
	21	RM 3436 REC	20 A	1		0 VA			0 VA		1	20 A	RM 3143 REC - IT CLOSET	22	
	23	RM 3433 REC	20 A	1			0 VA			0 VA	1	20 A	RM 3128 REC - NUTRITION	24	
	25							0 VA			1	20 A	RM 3130, 3134 REC - CLN/SOIL	26	
	27								0 VA		1	20 A	EF - EXT	28	
	29													30	
	31													32	
	33								0 VA		1	20 A	Spare	34	
	35													36	
	37							0 VA			1	20 A	Spare	38	
	39	EF - PENTHOUSE A	20 A	2		0 VA			0 VA		1	20 A	Spare	40	
--	41	--	--	--			0 VA							42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LL1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
2ND FLOOR OB, FED FROM PANEL LDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	CORR. WALL LTG	20 A	1	0 VA			0 VA			1	20 A	LTG RMS 515, 516	2	
	3	SCREENS MULTIPURP. RM	20 A	1		0 VA			0 VA		1	20 A	LTG RMS 517, 518	4	
	5	REC TELE RM & CORR.	20 A	1			0 VA			0 VA	1	20 A	LTG RMS 519, 520	6	
	7	TV REC CONF. RM A	20 A	1	0 VA			0 VA			1	20 A	LTG ELEC. CLOSET, DIR., NURSE...	8	
	9	Spare	20 A	1		0 VA			0 VA		1	20 A	LTG WRKRM,CLEAN,STOR.,OB...	10	
	11									0 VA	1	20 A	LTG...	12	
	13							0 VA			1	20 A	LTG CORR. NURSE STATION & LDR	14	
	15								0 VA		1	20 A	LTG SOILED UTILITY	16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1L1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
1ST FLOOR NEAR ELEVATOR A, FED FROM PANEL LDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RM 149-152 LTG	20 A	1	0 VA			0 VA			1	20 A	COR. LTG NORTH	2	
	3	IT RM LTG	20 A	1		0 VA			0 VA		1	20 A	COR. LTG SOUTH	4	
	5	IT RM LTG	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	IT RM LTG	20 A	1	0 VA									8	
	9	COR. NURSE STATION LTG	20 A	1		0 VA								10	
	11	VIS. LOG & BEAUTY SHOP LTG	20 A	1			0 VA							12	
	13	DINING & ACT DR LTG	20 A	1	0 VA									14	
	15	NURSE STATION LTG	20 A	1		0 VA								16	
	17	IT OFFICES LTG	20 A	1			0 VA			0 VA	1	20 A	BREAK	18	
	19	NURSE MAN. & STOR. LTG	20 A	1	0 VA									20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2L1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR HALLWAY MED. SURGERY, FED FROM PANEL LDP (NORTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG RM 210, 211, 212	20 A	1	0 VA			0 VA			1	20 A	SPARE WIRE ABOVE SOFFIT	2	
	3	LTG RM 207, 208, 209	20 A	1		0 VA								4	
	5	LTG RM 204, 205, 206	20 A	1			0 VA							6	
	7	LTG RM 200, 201, 202, 203	20 A	1	0 VA									8	
	9	LTG RM 213, 214, 215, 216	20 A	1		0 VA								10	
	11	LTG NURSING DIR.	20 A	1			0 VA							12	
	13	VISITOR CLN UTIL. & NURSE ST. LTG	20 A	1	0 VA									14	
	15	LTG REPORT & NURSE	20 A	1		0 VA								16	
	17	HALL LTG	20 A	1			0 VA							18	
	19													20	
	21	MID HALL LTG	20 A	1		0 VA								22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2L2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR INFUSION, FED FROM PANEL LDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG RM 3100-3432	20 A	1	0 VA									2	
	3	LTG RM 3433-3435	20 A	1		0 VA								4	
	5	LTG RM 3436	20 A	1			0 VA							6	
	7	LTG RM 3303-3305	20 A	1	0 VA									8	
	9	LTG RM 3301-3303	20 A	1		0 VA								10	
	11	LTG EXAM, BREAKROOM	20 A	1			0 VA							12	
	13	LTG NURSE STATION, STORAGE	20 A	1	0 VA									14	
	15	LTG NURSE STATION - INFUSION	20 A	1		0 VA								16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #3. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

Branch Panel: RM-1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
BASEMENT NORTH BOILER ROOM, FED FROM SWBD-6 (SE205A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	Space	--	1	--			0 VA			3	30 A	WATER HTR 12.0KW LAUNDRY	2	
	3								0 VA		--	--	--	4	--
	5									0 VA	--	--	--	6	--
	7							0 VA			3	20 A	CEILING HTR 7.5KW LAUNDRY	8	
	9								0 VA		--	--	--	10	--
	11									0 VA	--	--	--	12	--
	13							0 VA			3	20 A	CEILING HTR 7.5KW RM B114	14	
	15								0 VA		--	--	--	16	--
	17									0 VA	--	--	--	18	--
	19													20	
	21													22	
	23													24	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BP1 (LDP)

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
BASEMENT NORTH BOILER ROOM, FED FROM LDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG BOILER RM	20 A	1	0 VA			0 VA			1	20 A	CONTROL FOR HEAT LOOP	2	
	3	LTG BOILER RM	20 A	1		0 VA			0 VA		1	20 A	SP	4	
	5									0 VA	1	20 A	SP	6	
	7	REC BOILER RM	20 A	1	0 VA									8	
	9	REC BOILER RM	20 A	1		0 VA								10	
	11	REC BOILER RM	20 A	1				0 VA						12	
	13	REC BOILER RM	20 A	1	0 VA									14	
	15	EXHAUST FAN BOILER RM	20 A	1		0 VA			0 VA		1	20 A	EXHAUST FAN MORGUE	16	
	17									0 VA	2	20 A	WELDER REC	18	
	19	TOWER PUMP CONTROL	20 A	1	0 VA			0 VA			--	--	--	20	--
	21	CONTROL	20 A	1		0 VA			0 VA		2	20 A	PRE-HEAT MORGUE	22	
	23	BOILER RM EF	20 A	1			0 VA			0 VA	--	--	--	24	--
	25	HEAT PUMP-MORGUE	20 A	2	0 VA			0 VA			2	20 A	HEAT MORGUE	26	
--	27	--	--	--		0 VA			0 VA		--	--	--	28	--
	29	OUTSIDE "DAYLIGHT" FLOODS	20 A	2			0 VA	0 VA			2	20 A	OUTSIDE "DAYLIGHT" FLOODS	30	
--	31	--	--	--	0 VA				0 VA		--	--	--	32	--
	33	OUTSIDE "DAYLIGHT" FLOODS	20 A	2		0 VA				0 VA	2	20 A	OUTSIDE "DAYLIGHT" FLOODS	34	
--	35	--	--	--			0 VA	0 VA			--	--	--	36	--
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

JEREMY SCHUETTE NUMBER PE-2014000082
STATE OF MISSOURI
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS

ELECTRICAL EXISTING PANEL SCHEDULES

SHEET

E-010

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: 1LP1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 60 A
MCB Rating:

Notes:
2ND FLOOR MRI, FED FROM SWBD-7 (SOUTH BOILER ROOM SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	A	B	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	SKY PANEL	20 A	1	0 VA		0 VA		1	20 A	MRI REC	2	
	3	LIGHTING MRI	20 A	1		0 VA		0 VA	1	20 A	Spare	4	
	5	Spare	20 A	1	0 VA		0 VA		1	20 A	Spare	6	
	7	Spare	20 A	1		0 VA		0 VA	1	20 A	Spare	8	
	9	Spare	20 A	1	0 VA		0 VA		1	20 A	Spare	10	
	11	Spare	20 A	1		0 VA		0 VA	1	20 A	Spare	12	
	13	Spare	20 A	1	0 VA		0 VA		1	20 A	Spare	14	
	15	Spare	20 A	1		0 VA		0 VA	1	20 A	Spare	16	
	17	Spare	20 A	1	0 VA		0 VA		1	20 A	Spare	18	
				Total Load:	0 VA			0 VA					
				Total Amps:	0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LBA

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
BASEMENT IT UPS ROOM, FED FROM SWBD-8 (SOUTH ELEC. ROOM SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG BC02,2A,3,4,5	20 A	1	0 VA									2	
	3	LTG BC01	20 A	1		0 VA								4	
	5	LTG BC01	20 A	1			0 VA							6	
	7	REC BC02-BC04	20 A	1	0 VA									8	
	9	TRANSLOGIC PUMP	20 A	1		0 VA			0 VA		1	20 A	RADIO	10	
	11	TRANSLOGIC TRANSFER	20 A	1			0 VA			0 VA	1	20 A	HEAT PUMP BC01-BC02A	12	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LP3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
2ND FLOOR MRI, FED FROM SWBD-7 (SOUTH BOILER ROOM SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	AUTOMATIC DR.	20 A	1	0 VA			0 VA			1	20 A	OFFICE REC	2	
	3	Spare	20 A	1		0 VA			0 VA		1	20 A	DOORBELL	4	
	5	REC CONTROL AREA	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	REC CONTROL AREA	20 A	1	0 VA			0 VA			3	20 A	DC LIGHTENING CONTACTOR	8	
	9	REC CONTROL AREA	20 A	1		0 VA			0 VA		--	--	--	10	--
	11	REC EQUIPMENT RM	20 A	1			0 VA			0 VA	--	--	--	12	--
	13	Spare	20 A	1	0 VA			0 VA			2	20 A	1LP1 XFMR	14	
	15	Spare	20 A	1		0 VA			0 VA		--	--	--	16	--
	17	PRINTER	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
	19	Spare	20 A	1	0 VA			0 VA			3	20 A	MRI EXHAUST FAN EF-2	20	
	21	Spare	20 A	1		0 VA			0 VA		--	--	--	22	--
	23	Spare	20 A	1			0 VA			0 VA	--	--	--	24	--
	25	REFRIGERATOR	20 A	1	0 VA			0 VA			1	20 A	BLANKET WARMER	26	
	27	Spare	20 A	1		0 VA			0 VA		1	20 A	EF 20-1	28	
	29	Spare	20 A	1			0 VA			0 VA	1	20 A	CHARGING STATIONS 2361	30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BP2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
BASEMENT PHARMACY, FED FROM SWBD-7 (SOUTH BOILER ROOM SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM B-6,B-7,B-8	20 A	1	0 VA			0 VA			1	20 A	REC RM B-003	2	
	3	REC RM B-6,B-7,B-8	20 A	1		0 VA			0 VA		1	20 A	REC RM B-003	4	
	5	REC RM B-6,B-7,B-8,B-13	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	REC RM B-9,B-10,B-12,B-13	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9	REC RM B-9,B-10,B-12,B-13	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	REC RM B-9,B-10,B-12,B-13	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	REC RM B-005	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	REC RM B-14,B-15,B-16	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17	REC RM B-14,B-15,B-16	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
	19	CLEAN RM REC	20 A	1	0 VA			0 VA			1	20 A	Spare	20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BM1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: None
Phases: Not Computed
Wires: Not Computed

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:
SOUTH BOILER ROOM (BEHIND 500 TON), FED FROM SWBD-6A (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	CNDNSR WATER PUMP 500TON	20 A	3	0 VA			0 VA			3	20 A	PCWP #2 PRI. CHILL. WATER PMP	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	--	--	--	6	--
	7	EF-2 EXH FAN #2	20 A	3	0 VA			0 VA			3	20 A	PCWP #1 PRI. CHILL. WATER PMP	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	SCWP #1 SEC. CHILL. WATER PMP	20 A	3	0 VA			0 VA			3	20 A	PCWP #4 PRI. CHILL. WATER PMP	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
--	17	--	--	--			0 VA			0 VA	--	--	--	18	--
	19	SCWP #2 SEC. CHILL. WATER PMP	20 A	3	0 VA			0 VA			3	20 A	PCWP #3 PRI. CHILL. WATER PMP	20	
--	21	--	--	--		0 VA			0 VA		--	--	--	22	--
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	500 TON CHILLER PMP ACU 0413	20 A	3	0 VA									26	
--	27	--	--	--		0 VA								28	
--	29	--	--	--			0 VA							30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:											

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: Not Computed
				Total Est. Demand Current: Not Computed

Notes:

Branch Panel: J

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR LAB, FED FROM SWBD-7 (SOUTH BOILER ROOM SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG CORR.	20 A	1	0 VA			0 VA			1	20 A	LTG-PATH LAB, 3 OFFICES	2	
	3	SEND OUT CENTRIFUGE	20 A	1		0 VA								4	
	5	Spare	20 A	1			0 VA			0 VA	1	20 A	LTG-LAB STOR., 2 E. STOR.	6	
	7	Spare	20 A	1	0 VA			0 VA			1	20 A	REC.-NO. MAIN CORRIDOR	8	
	9	ICE MACHINE	20 A	1		0 VA			0 VA		1	20 A	REC.-OFFICES, HALL DESK	10	
	11	GEN. REC - BLOOD DRAW REC.	20 A	1			0 VA			0 VA	1	20 A	REC.-OFFICES, E. WALL	12	
	13	REC HISTOLOGY/CYTOLOGY	20 A	1	0 VA									14	
	15	REC HISTOLOGY/CYTOLOGY	20 A	1		0 VA								16	
	17	REC HISTOLOGY/CYTOLOGY	20 A	1			0 VA							18	
	19	REC HISTOLOGY/CYTOLOGY	20 A	1	0 VA			0 VA			1	20 A	EXHAUST FAN 6 PATH LAB	20	
	21	EF-6	20 A	1		0 VA								22	
	23	EX. CORRIDOR REC.	20 A	1			0 VA			0 VA	1	20 A	REC. OFFICES, W. WALL	24	
	25	Spare	20 A	1	0 VA			0 VA			1	20 A	REC. MAIN LAB & REF. AREA HALL	26	
	27	Spare	20 A	1		0 VA								28	
	29	SPECIMEN FRIDGE (58)	20 A	1			0 VA			0 VA	1	20 A	REC NEW OFFICE (OUTSIDE WALL)	30	
	31	REC HISTOLOGY/CYTOLOGY	20 A	1	0 VA			0 VA			1	20 A	LTG CENTER PENTHOUSE ENTR.	32	
	33	Spare	20 A	1		0 VA			0 VA		1	20 A	REC.-COPIER,BLOOD DRAW, WAIT.	34	
	35	REC HISTOLOGY/CYTOLOGY	20 A	1			0 VA			0 VA	1	20 A	Spare	36	
	37	Spare	20 A	1	0 VA			0 VA			1	20 A	REC.-MILLIPORE,DEIONIZER,CHEM	38	
	39								0 VA		1	20 A	Spare	40	
	41	Spare	20 A	1		0 VA				0 VA	1	20 A	REC.-BLOOD DRAW SO. CHEM. LAB	42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: C1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR CAFE, FED FROM PANEL LDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	1 WELL	20 A	2	0 VA			0 VA			1	20 A	WORK TOP FREEZER	2	
--	3	--	--	--		0 VA			0 VA		1	20 A	GAS FRYER	4	
	5	REC DINING W-WALL	20 A	1			0 VA			0 VA	1	20 A	REF EQUIP STAND	6	
	7	FROST TOP	20 A	1	0 VA			0 VA			2	20 A	U WELL HOT	8	
	9	EXH FAN	20 A	1		0 VA			0 VA		--	--	--	10	--
	11	HOOD LTG	20 A	1			0 VA			0 VA	2	20 A	COFFEE MACHINE	12	
	13	REC DINING W-WALL	20 A	1	0 VA			0 VA			--	--	--	14	--
	15	REC AT COFFEE MAKER	20 A	1		0 VA			0 VA		1	20 A	SODA MACHINE (CAPPUCCINO)	16	
	17	PASS HEATER	20 A	2			0 VA			0 VA	1	20 A	IC EMAKER	18	
--	19	--	--	--	0 VA			0 VA			1	20 A	REFRIGERATOR	20	
	21	RECEPTACLE	20 A	1		0 VA			0 VA		1	20 A	TEA MACHINE	22	
	23	RECEPTACLE	20 A	1			0 VA			0 VA	1	20 A	HEAT LAMPS	24	
	25	YOGURT MACHINE	20 A	2	0 VA			0 VA			1	20 A	HEAT LAMPS	26	
--	27	--	--	--		0 VA			0 VA		1	20 A	CASH REGISTER	28	
	29	REC DIETARY	20 A	1			0 VA			0 VA	1	20 A	HANGING LIGHTS	30	
	31	REC DIETARY	20 A	1	0 VA			0 VA			1	20 A	CASH REGISTER	32	
	33	NEW REFRIGERATOR	20 A	1		0 VA								34	
	35	DISPLAY CASE	20 A	1			0 VA			0 VA	1	20 A	REC DIETER OFFICE	36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: C2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR SERVING AREA, FED FROM PANEL LDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	SODA DISPENSER	20 A	1	0 VA			0 VA			1	20 A	REC HALL WATERCOOLER	2	
	3	ICE MAKER	20 A	1		0 VA			0 VA		1	20 A	REC & LTG - DIETARY OFFICE	4	
	5	TEA DISPENSER	20 A	1			0 VA			0 VA	2	20 A	4 WELL	6	
	7	JUICE DISPENSER	20 A	1	0 VA			0 VA			--	--	--	8	--
	9	CAPPUCCINO	20 A	1		0 VA			0 VA		2	20 A	2 WELL HOT	10	
	11	SOUP	20 A	2			0 VA			0 VA	--	--	--	12	--
--	13	--	--	--	0 VA			0 VA			1	20 A	EXHAUST FAN DISH RM	14	
	15	SPARE	20 A	2		0 VA			0 VA		1	20 A	3-DOOR FRIDGE KITCHEN	16	
--	17	--	--	--			0 VA			0 VA	1	20 A	LTG KITCHEN	18	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #3. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

2 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #4. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL EXISTING PANEL SCHEDULES

SHEET
E-011

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: LL2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
2ND FLOOR ICU, FED FROM SWBD-7 (SOUTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG KITCHENETTE	20 A	1	0 VA			0 VA			1	20 A	OUTSIDE LTG	2	
	3	LTG L575,567,550,558,571,RR,HALL	20 A	1		0 VA			0 VA		1	20 A	OUTSIDE LTG	4	
	5	LTG WAITING L559	20 A	1			0 VA			0 VA	1	20 A	OUTSIDE LTG	6	
	7	LTG L551,NURS. STAT.,MIDL INTR	20 A	1	0 VA			0 VA			2	20 A	NEW CORRECTNS HOLDING RECS	8	
	9	LTG PARKING LOT	20 A	2		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	1	20 A	OUTSIDE LIGHTS	12	
	13	LTG ADMIN CANOPY & S. WALL PKS	20 A	1	0 VA			0 VA			1	20 A	COMPUTER OUTLETS RM 2568	14	
	15								0 VA		1	20 A	REC COMM. HALLWAY	16	
	17	LTG WAITING AREA	20 A	1			0 VA							18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1L3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
1ST FLOOR SOUTH ADDITION, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG NURSE STATION / LOUNGE	20 A	1	0 VA			0 VA			1	20 A	LTG HALLWAY NORTH	2	
	3	LTG RM 124-127	20 A	1		0 VA			0 VA		1	20 A	LTG HALLWAY SOUTH	4	
	5	LTG RM 120-123	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	LTG RM 110-113	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9	LTG RM 114-116	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	LTG NURSE STATION, UTILITY	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	LTG DINING RM	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	LTG EXAM, REHAB, VISITOR...	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
	19	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	20	
	21	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	22	
	23	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	24	
	25	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	26	
	27	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	28	
	29	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	30	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LP2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
2ND FLOOR ICU, FED FROM SWBD-7 (SOUTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 530	20 A	1	0 VA			0 VA			1	20 A	REC L562 HALLWAY	2	
	3	REC RM 531	20 A	1		0 VA			0 VA		1	20 A	REC L562	4	
	5	REC RM 532	20 A	1			0 VA			0 VA	1	20 A	REC L562, L575, L579	6	
	7	REC L550,L567,NURSE STATION	20 A	1	0 VA			0 VA			1	20 A	REC L579 HALLWAY	8	
	9	REC L550,L558,L571	20 A	1		0 VA			0 VA		1	20 A	REC N. & W. NURSE STATION	10	
	11	REC L550,L554,L558	20 A	1			0 VA			0 VA	1	20 A	REC S. & W. NURSE STATION	12	
	13	REC L558, S. HALL	20 A	1	0 VA			0 VA			1	20 A	REC L551 CLOSET	14	
	15	REC L563	20 A	1		0 VA			0 VA		1	20 A	REC L551, W. NURSE STATION	16	
	17	REC L559	20 A	1			0 VA			0 VA	1	20 A	REC L551	18	
	19	REC L555, NURSE STATION	20 A	1	0 VA			0 VA			1	20 A	REC L551 HWD	20	
	21	REC NURSE STATION HWD	20 A	1		0 VA			0 VA		1	20 A	EF-ICU	22	
	23	WAITING KITCHENETTE/TV	20 A	1			0 VA			0 VA	1	20 A	GARBAGE DISPOSAL & REC...	24	
	25							0 VA			1	20 A	WAITING KITCHENETTE	26	
	27								0 VA		1	20 A	REC RM 535	28	
	29									0 VA	1	20 A	REC RM 534	30	
	31	WAITING KITCHENETTE	20 A	1	0 VA			0 VA			1	20 A	REC RM 533	32	
	33	REC RM 541	20 A	1		0 VA			0 VA		1	20 A	REC RM 538	34	
	35	REC RM 540	20 A	1			0 VA			0 VA	1	20 A	REC RM 537	36	
	37	REC RM 539	20 A	1	0 VA			0 VA			1	20 A	REC RM 536	38	
	39	REC CLOSET WIREMOLD RACEWAY	20 A	1		0 VA								40	
	41	REC CLOSET WIREMOLD RACEWAY	20 A	1			0 VA			0 VA	1	20 A	REC PANEL RM EAST WALL	42	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1P3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
1ST FLOOR SOUTH, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 110	20 A	1	0 VA			0 VA			1	20 A	REC DINING RM	2	
	3	REC RM 111	20 A	1		0 VA			0 VA		1	20 A	REC DINING RM	4	
	5	REC RM 112	20 A	1			0 VA			0 VA	1	20 A	REC CLEAN/SOILED UTIL. S.	6	
	7	REC RM 113	20 A	1	0 VA			0 VA			1	20 A	REC NURS STA. SOUTH (1-259)	8	
	9	REC RM 114	20 A	1		0 VA			0 VA		1	20 A	REC SHOWER & TUB RMS	10	
	11	REC RM 115	20 A	1			0 VA			0 VA	1	20 A	REC STOR. & VISIT. RR (1-234,237)	12	
	13	REC RM 116	20 A	1	0 VA			0 VA			1	20 A	REC REHAB MGR. & VISIT. LOUNGE	14	
	15	REC RM 120	20 A	1		0 VA			0 VA		1	20 A	REC REHAB MGR.	16	
	17	REC RM 121	20 A	1			0 VA			0 VA	1	20 A	REC VISIT. LOUNGE & NOURISH	18	
	19	REC RM 121	20 A	1	0 VA			0 VA			1	20 A	REC MEDICATIONS RM	20	
	21	REC RM 122	20 A	1		0 VA			0 VA		1	20 A	REC N. NURSE STATION (1-214)	22	
	23	REC RM 123	20 A	1			0 VA			0 VA	1	20 A	REC CLEAN/SOILED UTIL. N.	24	
	25	REC RM 124	20 A	1	0 VA			0 VA			1	20 A	RADIANT HEAT PATIENT SHOWER	26	
	27	REC RM 125	20 A	1		0 VA			0 VA		1	20 A	REC STAFF LOUNGE (ICE)	28	
	29	REC RM 126	20 A	1			0 VA			0 VA	1	20 A	HOT WATER DISPENSER DINING RM	30	
	31	REC RM 127	20 A	1	0 VA			0 VA			1	20 A	STAFF LOUNGE COFFEE	32	
	33	HWD NOURISHMENT	20 A	1		0 VA			0 VA		1	20 A	REC HALLWAY	34	
	35	TEMP TRASH COMPACTOR	20 A	1			0 VA			0 VA	1	20 A	STAFF LOUNGE UCR	36	
	37	TEMP TRASH COMPACTOR	20 A	1	0 VA			0 VA			1	20 A	SLEEP LAB DOOR SOUTH	38	
	39	TEMP TRASH COMPACTOR	20 A	1		0 VA			0 VA		1	20 A	Spare	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	42	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1L2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
1ST FLOOR GYM AREA, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG HALLWAY	20 A	1	0 VA			0 VA			1	20 A	LTG IT RM	2	
	3	LTG PHYSICAL THERAPY STAFF	20 A	1		0 VA			0 VA		1	20 A	Spare	4	
	5	LTG SPEECH THERAPY	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	LTG RECREATIONAL THERAPY	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9	LTG OT STAFF	20 A	1		0 VA								10	
	11	LTG OT GYM	20 A	1			0 VA							12	
	13	Spare	20 A	1	0 VA									14	
	15	Spare	20 A	1		0 VA								16	
	17	Spare	20 A	1			0 VA							18	
	19	Spare	20 A	1	0 VA									20	
	21	Spare	20 A	1		0 VA								22	
	23	Spare	20 A	1			0 VA							24	
	25	Spare	20 A	1	0 VA									26	
	27	Spare	20 A	1		0 VA								28	
	29	Spare	20 A	1			0 VA							30	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2L3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR SOUTH, FED FROM SWBD-7

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG RMS SOUTHEAST	20 A	1	0 VA			0 VA			1	20 A	LTG HALL EAST	2	
	3	LTG RMS SOUTHEAST	20 A	1		0 VA			0 VA		1	20 A	LTG HALL WEST	4	
	5	LTG RMS SOUTHWEST	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	LTG RMS SOUTHWEST	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9	LTG RMS WEST	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	LTG RMS NORTHWEST	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	LTG NURSE STATION EAST	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	LTG NURSE STATION WEST	20 A	1		0 VA								16	
	17	LTG HALL EAST	20 A	1			0 VA							18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #4. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

Branch Panel: 1P2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
1ST FLOOR GYM AREA, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC ADL KITCHEN	20 A	1	0 VA			0 VA			1	20 A	Spare	2	
	3	REC ADL KITCHEN	20 A	1		0 VA			0 VA		1	20 A	KITCHEN FRIDGE	4	
	5	REC OT GYM	20 A	1			0 VA			0 VA	1	20 A	REC HALLWAY	6	
	7	REC BIOMED POWER STRIP	20 A	1	0 VA			0 VA			2	20 A	UNIT HTR SPEECH THERAPY	8	
	9	REC PT STAFF	20 A	1		0 VA			0 VA		--	--	--	10	--
	11	REC PT STAFF	20 A	1			0 VA			0 VA	1	20 A	REC WALL IT #1&2	12	
	13	REC IT #1	20 A	1	0 VA			0 VA			1	20 A	POWER POLE IT #1	14	
	15	POWER POLE IT #1	20 A	1		0 VA			0 VA		1	20 A	REC OT STAFF	16	
	17	COPIER REC IT #2	20 A	1			0 VA			0 VA	1	20 A	REC IP STORAGE, OT STAFF	18	
	19	REC SPEECH THERAPY	20 A	1	0 VA			0 VA			1	20 A	REC WHIRLPOOL RM	20	
	21	REC SPEECH THERAPY	20 A	1		0 VA			0 VA		2	30 A	DRYER	22	
	23	REC SPEECH THERAPY WAITING	20 A	1			0 VA			0 VA	--	--	--	24	--
	25	Spare	20 A	1	0 VA			0 VA			1	20 A	REC WASHER & DRYER RM	26	
	27	M FTU'S	20 A	1		0 VA			0 VA		1	20 A	REC IT #2	28	
	29	REC REHAB ADMIN	20 A	1			0 VA			0 VA	1	20 A	REC IT #2	30	
	31	REC OT MGR	20 A	1	0 VA			0 VA			1	20 A	REC RM 128	32	
	33	REC OT MGR	20 A	1		0 VA			0 VA		1	20 A	FLOOR REC & COLUMN IT #1	34	
	35	REC RECREATIONAL THERAPY	20 A	1			0 VA			0 VA	1	20 A	FTU'S	36	
	37	REC LIFE SKILLS	20 A	1	0 VA			0 VA			1	20 A	COFFEE MACHINE PT OFFICE	38	
	39	REC SOCIAL WORKER	20 A	1		0 VA			0 VA		1	20 A	FRIDGE & MICROWAVE	40	
	41	REC PT SUPERVISOR	20 A	1			0 VA			0 VA	1	20 A	DISHWASHER ADL KITCHEN	42	
	43	WHIRLPOOL	20 A	2	0 VA			0 VA			1	20 A	COPIER SOCIAL WORKER	44	
--	45	--	--	--		0 VA			0 VA		1	20 A	EMPLOYEE FIRNESS REC	46	
	47									0 VA	1	20 A	EMPLOYEE FIRNESS REC	48	
	49	EMPLOYEE FITNESS REC	20 A	1	0 VA			0 VA			1	20 A	EMPLOYEE FITNESS REC	50	
	51	REC IT RACK	20 A	2		0 VA			0 VA		1	20 A	STOR. 1182 PLUGMOLD	52	
--	53	--	--	--			0 VA			0 VA	1	20 A	STOR. 1182 PLUGMOLD	54	
	55	REC IT RACK	20 A	2	0 VA			0 VA			1	20 A	STOR. 1182 PLUGMOLD	56	
--	57	--	--	--		0 VA								58	
	59													60	
	61													62	
	63													64	
	65													66	
	67													68	
	69													70	
	71													72	
	73													74	
	75													76	
	77													78	
	79													80	
	81													82	
	83													84	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: 2P3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR SOUTH, FED FROM SWBD-7

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 264	20 A	1	0 VA			0 VA			1	20 A	NURSE MANAGER	2	
	3	REC RM 263	20 A	1		0 VA			0 VA		1	20 A	NURSE STATION WEST	4	
	5	Spare	20 A	1			0 VA			0 VA	1	20 A	NURSE STATION WEST	6	
	7	REC RM 261	20 A	1	0 VA			0 VA			1	20 A	REC EQUIPMENT STORAGE	8	
	9	REC RM 260	20 A	1		0 VA			0 VA		1	20 A	REC CLEAN UTILITY	10	
	11	REC RM 259	20 A	1			0 VA			0 VA	1	20 A	REC DICTATION	12	
	13	REC RM 257	20 A	1	0 VA			0 VA			1	20 A	STAFF RM	14	
	15	REC RM 256	20 A	1		0 VA			0 VA		1	20 A	NURSE STATION EAST	16	
	17	REC RM 255	20 A	1			0 VA			0 VA	1	20 A	NURSE STATION EAST	18	
	19	REC RM 254	20 A	1	0 VA			0 VA			1	20 A	NURSE STATION EAST	20	
	21	REC RM 253	20 A	1		0 VA			0 VA		1	20 A	CEILING HEAT	22	
	23	REC RM 252	20 A	1			0 VA			0 VA	1	20 A	REC PYXIS	24	
	25	REC RM 251	20 A	1	0 VA			0 VA			1	20 A	Spare	26	
	27	REC RM 250	20 A	1		0 VA			0 VA		1	20 A	Spare	28	
	29	REC DIAL RM	20 A	1			0 VA			0 VA	1	20 A	Spare	30	
	31	REC RM 258	20 A	1	0 VA			0 VA			1	20 A	Spare	32	
	33	REC NOURISH	20 A	1		0 VA			0 VA		1	20 A	EXHAUST FAN #15	34	
	35	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	36	
	37	#14 EXHAUST FAN	20 A	2	0 VA			0 VA			1	20 A	EXHAUST FAN #16	38	
--	39	--	--	--		0 VA			0 VA		1	20 A	EF'S #12(9803) & #13(9804)...	40	
	41	EXT. EXHAUST FAN	20 A	1			0 VA			0 VA	1	20 A	EXHAUST FAN #17(98-05)	42	
		Total Load:			0 VA			0 VA							
		Total Amps:			0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS

ELECTRICAL EXISTING PANEL SCHEDULES

SHEET

E-012

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: 2L4

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR WEST HALLWAY, FED FROM SWBD-7 (SOUTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG NORTHEAST	20 A	1	0 VA			0 VA			1	20 A	Spare	2	
	3	LTG SOUTHEAST	20 A	1		0 VA			0 VA		1	20 A	Spare	4	
	5	LTG SOUTHWEST	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	LTG NURSE STATION	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2L5

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR WEST RM 3222, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	ROOM LTG	20 A	1	0 VA			0 VA			1	20 A	SHELL LTG & HALL	2	
	3	HALL LTG	20 A	1		0 VA			0 VA		1	20 A	LTG RM 376,378	4	
	5	SHELL LTG	20 A	1			0 VA			0 VA	1	20 A	LTG RM 376,378	6	
	7	MOBILITY GYM LTG	20 A	1	0 VA			0 VA			1	20 A	LTG RM 3226A	8	
	9	MOBILITY GYM LTG	20 A	1		0 VA			0 VA		1	20 A	LTG RM 3226A	10	
	11	Spare	20 A	1			0 VA			0 VA	1	20 A	LTG RM 3226A	12	
	13	Spare	20 A	1	0 VA			0 VA			1	20 A	LTG CARDIOLOGY & SHELL	14	
	15	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

1

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #4. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

Branch Panel: L1B

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR HALLWAY NUC. MEDICINE, FED FROM SWBD-8

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG NUC. MED. WORK	20 A	1	0 VA			0 VA			1	20 A	LTG GAMMA CAMERA	2	
	3	LTG GAMMA CAMERA	20 A	1		0 VA			0 VA		1	20 A	LTG CARDIAC REHAB	4	
	5	LTG. COMPT & TECH OFFICE	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	THD MILL	20 A	2	0 VA			0 VA			1	20 A	LTG HALL	8	
--	9	--	--	--		0 VA			0 VA		1	20 A	BREAK REC	10	
	11	REC	20 A	1			0 VA			0 VA	1	20 A	BREAK REC	12	
	13	REC GAMMA CAMERA	20 A	1	0 VA			0 VA			1	20 A	BREAK REC	14	
	15	REC CARDIAC REHAB	20 A	1		0 VA			0 VA		1	20 A	REC 2401	16	
	17	STRESS LAB REC	20 A	1			0 VA			0 VA	1	20 A	REC 2401	18	
	19	STRESS LAB LTG	20 A	1	0 VA			0 VA			1	20 A	LTG GAMMA CAMERA	20	
	21	STRESS LAB LTG	20 A	1		0 VA			0 VA		1	20 A	LTG GAMMA CAMERA	22	
	23	GAMMA CAMERA CONTROL	20 A	1			0 VA			0 VA	1	20 A	REC 1A Q	24	
	25	COMP. TERM CRT.	20 A	1	0 VA			0 VA			1	20 A	REC BREAK RM	26	
	27	UPS RM 405	20 A	1		0 VA			0 VA		1	20 A	REC BREAK - BATH	28	
	29	GAMMA CAMERA CONTROL	20 A	1			0 VA			0 VA	1	20 A	REC BREAK RM	30	
	31	COMP. TERM CRT.	20 A	1	0 VA			0 VA			1	20 A	STRESS TEST MONITOR	32	
	33	TREADMILL STRESS LAB	20 A	2		0 VA			0 VA		1	20 A	GAMMA CAMERA, MOBILE	34	
--	35	--	--	--			0 VA			0 VA	1	20 A	Spare	36	
	37	REC DOC. OFF	20 A	1	0 VA									38	
	39	Spare	20 A	1		0 VA								40	
	41													42	
	43	FILM VIEWER	20 A	1	0 VA									44	
	45	GAMMA CAMERA	20 A	2		0 VA					1	20 A	GAMMA CAMERA	46	
--	47	--	--	--			0 VA			0 VA	1	20 A	HALLWAY REC (PORTABLE X-RAY)	48	
	49	CAMERA RM #1	20 A	2	0 VA			0 VA			2	20 A	CAMERA RM #1	50	
--	51	--	--	--		0 VA			0 VA		--	--	--	52	--
	53	REC HALL	20 A	1			0 VA			0 VA	2	20 A	TREADMILL L408	54	
	55	REC HALL	20 A	1	0 VA			0 VA			--	--	--	56	--
	57	TRANSLOGIC	20 A	1		0 VA								58	
	59													60	
	61							0 VA			2	20 A	X-RAY 2469	62	
	63								0 VA		--	--	--	64	--
	65													66	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: 2P4

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR WEST HALLWAY, FED FROM SWBD-7 (SOUTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 273	20 A	1	0 VA			0 VA			1	20 A	REC RM 272	2	
	3	REC RM 274	20 A	1		0 VA			0 VA		1	20 A	REC RM 271	4	
	5	REC RM 275	20 A	1			0 VA			0 VA	1	20 A	REC RM 270	6	
	7	REC RM 276	20 A	1	0 VA			0 VA			1	20 A	REC NURSES STATION	8	
	9	REC RM 277 (3119)	20 A	1		0 VA			0 VA		1	20 A	REC NURSES STATION	10	
	11	REC RM 278	20 A	1			0 VA			0 VA	1	20 A	REC DICTATION	12	
	13	REC UTILITY	20 A	1	0 VA									14	
	15	REC UTILITY	20 A	1		0 VA								16	
	17	FCU- NURSES STATION	20 A	1			0 VA							18	
	19	EXH 1202, EUS CLOSET 3228 (EF-7)	20 A	3	0 VA									20	
--	21	--	--	--		0 VA								22	
--	23	--	--	--			0 VA							24	
	25	FIRE DAMPER	20 A	1	0 VA									26	
	27	COOLING TOWER	20 A	2		0 VA								28	
--	29	--	--	--			0 VA							30	
	31	SP PENTHOUSE HEPT	20 A	1	0 VA									32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2P5

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR WEST RM 3222, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC TRAINING RM	20 A	1	0 VA			0 VA			2	20 A	REC RM 378	2	
	3	REC BREAKRM	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	REC BREAKRM MICROWAVE	20 A	1			0 VA			0 VA	1	20 A	REC RM 376,378	6	
	7	REC RM 383	20 A	1	0 VA			0 VA			1	20 A	XFMR ISOLATION RM	8	
	9	WHEELCHAIR STORAGE	20 A	1		0 VA			0 VA		1	20 A	REC RM 376	10	
	11	REC RM 385	20 A	1			0 VA			0 VA	1	20 A	HOT PACK WALL (MOBILITY)	12	
	13	FRIDGE REC	20 A	1	0 VA			0 VA			1	20 A	REC RM 385	14	
	15	MICROWAVE REC	20 A	1		0 VA			0 VA		1	20 A	LTG CARDIOLOGY	16	
	17	REC RM 387	20 A	1			0 VA			0 VA	1	20 A	RECS	18	
	19	RECORDS STORAGE	20 A	1	0 VA			0 VA			3	20 A	ROOF EXHAUST FAN	20	
	21	RECORDS STORAGE	20 A	1		0 VA			0 VA		--	--	--	22	--
	23	EXHAUST FAN	20 A	1			0 VA			0 VA	--	--	--	24	--
	25	GFI REC RM 3622A	20 A	1	0 VA			0 VA			1	20 A	CARDIO FRIDGE	26	
	27	REC RM 3626A	20 A	1		0 VA			0 VA		1	20 A	CARDIO MICROWAVE	28	
	29	REC RM 3626B	20 A	1			0 VA			0 VA	1	20 A	CARDIO COMPUTER	30	
	31	REC CARDIOLOGY	20 A	1	0 VA			0 VA			1	20 A	CARDIO SODA MACHINE	32	
	33	REC RM 3626B	20 A	1		0 VA			0 VA		1	20 A	CARDIO BATH & KITCHEN	34	
	35	REC RM 3626A	20 A	1			0 VA			0 VA	1	20 A	CARDIO DRYER	36	
	37	PANEL 2P5-B	20 A	3	0 VA			0 VA			1	20 A	CARDIO COMP. RM KITCHEN	38	
--	39	--	--	--		0 VA			0 VA		1	20 A	REC MOBILITY GYM	40	
--	41	--	--	--			0 VA			0 VA	1	20 A	REC MOBILITY GYM	42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: L

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
3RD FLOOR LAB, FED FROM PANEL DP1 (CENTER PENTHOUSE)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	BREAK RM WARMING RECS	20 A	3	0 VA			0 VA			1	20 A	REFRIGERATOR (152C)	2	
--	3	--	--	--		0 VA			0 VA		1	20 A	OFFICE/BREAK RM/LAB BATHRM...	4	
--	5	--	--	--			0 VA			0 VA	1	20 A	SPECIMEN FRIDGE (52)	6	
	7	EXISTING RECS	20 A	1	0 VA			0 VA			1	20 A	EX. CORRIDOR RECS	8	
	9	BREAK RM COFFEE MAKER	20 A	1		0 VA			0 VA		1	20 A	JORDAN WOOD/SILVER FRIDGE (48)	10	
	11	EXISTING BATHROOM EXHAUST...	20 A	1			0 VA			0 VA	1	20 A	BREAK RM GARBAGE DISPOSAL	12	
	13	BREAK RM DISHWASHER	20 A	1	0 VA			0 VA			1	20 A	BREAK RM MICROWAVE	14	
	15	BREAK RM TOASTER	20 A	1		0 VA			0 VA		1	20 A	BREAK RM FRIDGE	16	
	17	BREAK RM COUNTER REC	20 A	1			0 VA			0 VA	1	20 A	OFFICE GEN. RECS	18	
	19	CHEM SILVER REFRIGERATOR (49)	20 A	1	0 VA			0 VA			1	20 A	LIS OFFICE GEN. RECS	20	
	21	UC REFRIGERATOR (51)	20 A	1		0 VA			0 VA		1	20 A	GEN. RECS	22	
	23	CHEM GENERAL RECS/MILLIPORE	20 A	1			0 VA			0 VA	1	20 A	UA CLINITEK 500, CNFG 14	24	
	25	UA UC REFRIGERATOR (71)	20 A	1	0 VA			0 VA			1	20 A	UA COUNTER RECS	26	
	27	DISHWASHER	20 A	1		0 VA			0 VA		1	20 A	ACCESSIONING GEN. RECS	28	
	29	COUNTER RECS	20 A	1			0 VA			0 VA	1	20 A	ACCESSIONING CNFG(13,15)	30	
	31	CHEM FREEZERS(32. 47)	20 A	1	0 VA			0 VA			1	20 A	SEND OUT GEN RECS	32	
	33	ROT. 177, VORTEX 176, HEAT BLK...	20 A	1		0 VA			0 VA		1	20 A	CHEM FFN MACHS (45,46)/CNFG(12)	34	
	35	EF-2	20 A	1			0 VA			0 VA	1	20 A	CHEM CNFG(37), FAX(29), OS-MO(78)	36	
	37	EF-3	20 A	1	0 VA			0 VA			1	20 A	FRIDGE (152B)	38	
	39	TUBE MACHINE	20 A	1		0 VA			0 VA		1	20 A	GEN. COUNTER RECS	40	
	41	GEN. COUNTER RECS	20 A	1			0 VA			0 VA	1	20 A	GEN. RECS	42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
CNFG - CENTRIFUGE

Branch Panel: 2P5-B

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR WEST RM 3222, FED FROM PANEL 2P5 (3RD FLOOR WEST RM 3222)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	WASHER RM 3219	20 A	1	0 VA			0 VA			1	20 A	REC MOBILITY GYM	2	
	3	DRYER RM 3219	20 A	2		0 VA			0 VA		1	20 A	REC MOBILITY GYM	4	
--	5	--	--	--			0 VA			0 VA	1	20 A	REC MOBILITY GYM	6	
	7	RANGE ADL DINING	20 A	2	0 VA			0 VA			1	20 A	Spare	8	
--	9	--	--	--		0 VA			0 VA		1	20 A	Spare	10	
	11	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: RM1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: None
Phases: Not Computed
Wires: Not Computed

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:
ROOF MECH RM 9, FED FROM SWBD-6A (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	AHU #1 SUPPLY	20 A	3	0 VA			0 VA			3	20 A	CT #1	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	--	--	--	6	--
	7	AHU #1 RETURN	20 A	3	0 VA			0 VA			3	20 A	CT #1 - HEATER	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	AHU #3 SUPPLY	20 A	3	0 VA			0 VA			3	20 A	EXHAUST FAN #7	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
--	17	--	--	--			0 VA			0 VA	--	--	--	18	--
	19	Spare	20 A	3	0 VA			0 VA			3	20 A	AHU #3 RETURN	20	
--	21	--	--	--		0 VA			0 VA		--	--	--	22	--
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	BAISON HEATER	20 A	3	0 VA			0 VA			1	20 A	SOUTH SIGN	26	
--	27	--	--	--		0 VA								28	
--	29	--	--	--			0 VA							30	
	31	225 TON COOLING TOWER FAN	20 A	3	0 VA									32	
--	33	--	--	--		0 VA								34	
--	35	--	--	--			0 VA							36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA							
				Total Amps:											

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: Not Computed
				Total Est. Demand Current: Not Computed

Notes:

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL EXISTING PANEL SCHEDULES

SHEET
E-013

SSC JOB# 2024379 - BID SET 07/08/25

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS AFFECTED BY PLANNED OUTAGE #4. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

2 EXISTING PANELS FROM 'ATS-0203' AFFECTED BY PLANNED OUTAGE #5. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

Branch Panel: EBB

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
ELECTRICAL RM SE206A, LIFE SAFETY BRANCH, ATS-0203, FED FROM EB-LS (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG MECH	20 A	1	0 VA			0 VA			1	20 A	BATTERY CHARGER	2	
	3	REC MECH	20 A	1		0 VA			0 VA		1	20 A	EMERG. LTG GEN. RM	4	
	5	PUMP FOR NEW TOWER	20 A	1			0 VA			0 VA	1	20 A	Spare	6	
	7	PUMP FOR NEW TOWER	20 A	1	0 VA			0 VA			1	20 A	LTG #3 STAIR "A"	8	
	9	Spare	20 A	1		0 VA			0 VA		1	20 A	COMPRESSOR FIRE SYS	10	
	11	Spare	20 A	1			0 VA			0 VA	1	20 A	GEN. DAMPER FAN	12	
	13	EMERG. LTG BASEMENT "C"	20 A	1	0 VA			0 VA			1	20 A	LTG #3 STAIR "A"	14	
	15	VEEDER ROOT	20 A	1		0 VA			0 VA		1	20 A	LTG #2 STAIR "B"	16	
	17	FUEL OIL PUMPS	20 A	1			0 VA			0 VA	1	20 A	LTG #2 STAIR "B"	18	
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: E1B

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
2ND FLOOR HALLWAY NUC. MEDICINE, LIFE SAFETY POWER, ATS-0203, FED FROM PANEL EB-LS (SOUTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG HALL	20 A	1	0 VA			0 VA			1	20 A	IRL ROOMS	2	
	3	NURSE CALL	20 A	1		0 VA			0 VA		1	20 A	Spare	4	
	5	LTG GAMMA RM	20 A	1			0 VA			0 VA	1	20 A	X-RAY CRASH CART	6	
	7	Spare	20 A	1	0 VA			0 VA			2	20 A	UPS REC	8	
	9	ER IT RACK - LEFT REC	20 A	2		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	2	20 A	UPS REC	12	
	13	ER IT RACK - RIGHT REC	20 A	1	0 VA			0 VA			--	--	--	14	--
	15	CT SCAN UPS REC	20 A	2		0 VA			0 VA		2	20 A	UPS REC	16	
--	17	--	--	--			0 VA			0 VA	--	--	--	18	--
	19	NURSE CALL - CT	20 A	1	0 VA									20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: D

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 60 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
SOUTH BOILER ROOM SE205, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	YORK CHILLER	20 A	1	0 VA				0 VA		1	20 A	LTG S PARKING LOT	2	
	3	FAN COIL STAIRWELL	20 A	1		0 VA				0 VA	1	20 A	LTG S PARKING LOT	4	
	5	TREADMILL	20 A	1			0 VA			0 VA	1	20 A	LTG S PARKING LOT	6	
	7	CIRC. PUMP HOT WATER	20 A	1	0 VA			0 VA			1	20 A	SE EXHAUST FAN	8	
	9	SOFT WATER CONDITIONER	20 A	1		0 VA			0 VA		1	20 A	SOUTH LOT LTG	10	
	11	OUTSIDE REC BY STEPS	20 A	1			0 VA			0 VA	1	20 A	CONDESATION PUMP	12	
	13													14	
	15									0 VA	1	20 A	UNIT HTR SE ENTRANCE	16	
	17	TEMP POWER	20 A	1			0 VA			0 VA	1	20 A	UNIT HTR SE ENTRANCE	18	
	19	LTG CONTACTOR COIL SOUTH	20 A	1	0 VA				0 VA		1	20 A	REC BOILER RM	20	
	21	SIMPLEX CONTROL	20 A	1		0 VA				0 VA	1	20 A	REC ADULT REHAB	22	
	23	STAIRWELL LTG	20 A	1			0 VA				0 VA	1	20 A	REC E BOILER RM WALL	24
	25	BOILER RM EAST EXHAUST	20 A	1	0 VA				0 VA		1	20 A	BOILER RM PLUG	26	
	27									0 VA	1	20 A	REC BOILER RM	28	
	29										0 VA	1	20 A	UNIT HTR GEN RM	30	
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2LS2

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
3RD FLOOR SOUTH, LIFE SAFETY POWER, ATS-0203, FED FROM PANEL EB-LS

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	EGRESS & EXIT LTG (LAB)	20 A	1	0 VA			0 VA			1	20 A	Spare	2	
	3								0 VA		1	20 A	Spare	4	
	5									0 VA	1	20 A	WEST HALL EMERGENCY LTG	6	
	7							0 VA			1	20 A	DOOR HOLDERS-W. HALL OCC....	8	
	9													10	
	11													12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BLS1

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
BASEMENT CLOSET BY MED REC RM SE203, LIFE SAFETY BRANCH, ATS-0203, FED FROM PANEL EB-LS (SOUTH BOILER RM SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	EXIT LTG	20 A	1	0 VA			0 VA			1	20 A	RECS- PHARMACY	2	
	3	LTG - MEDICAL RECORDS	20 A	1		0 VA			0 VA		1	20 A	RECS - PHARMACY	4	
	5	LTG - PHARMACY	20 A	1			0 VA			0 VA	1	20 A	RECS - PHARM. WRKSTATION	6	
	7	LTG - PHARMACY	20 A	1	0 VA			0 VA			1	20 A	RECS - PHARMACY	8	
	9	LTG - EDUCATION	20 A	1		0 VA			0 VA		1	20 A	PHARM. - COUNTERTOP FRIDGE	10	
	11	LTG - VOLUNTEER OFFICE	20 A	1			0 VA			0 VA	1	20 A	PHARM. - REAR CUBICLES	12	
	13	LTG - HALLWAY	20 A	1	0 VA			0 VA			1	20 A	PHARM. - FREEZER	14	
	15	LENEL PANEL SE304	20 A	1		0 VA								16	
	17													18	
	19													20	
	21													22	
	23													24	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: G

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 50 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
BASEMENT SOILED LINEN ROOM B154, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG STORAGE	20 A	1	0 VA			0 VA			1	20 A	LTG HALL	2	
	3	LTG	20 A	1		0 VA			0 VA		1	20 A	REC	4	
	5	REC	20 A	1			0 VA			0 VA	1	20 A	REC & COMPUTER	6	
	7	Spare	20 A	1	0 VA			0 VA			1	20 A	UNIT HEATER B154	8	
	9	OUTLETS BY DESK	20 A	1		0 VA			0 VA		1	20 A	GARAGE DOOR OPENER - DOCK	10	
	11	REC HALL 110V	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	Spare	20 A	1	0 VA			0 VA			1	20 A	SP. TIME CLOCK	14	
	15	TEMPERATURE CONTROLS	20 A	1		0 VA			0 VA		1	20 A	110V OUTLETS IN HALLWAY	16	
	17													18	
	19													20	
	21													22	
	23													24	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: E

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 20 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
ROOF MECH RM 9, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RECEPTACLE	20 A	1	0 VA			0 VA			1	20 A	AHU	2	
	3	LIGHTING	20 A	1		0 VA			0 VA		1	20 A	EXHAUST FAN	4	
	5	EXHAUST FAN 0801	20 A	1			0 VA			0 VA	1	20 A	OUTSIDE RECEPTACLE	6	
	7	EXHAUST FAN 2ND FL	20 A	1	0 VA									8	
	9	PAGING XMITTER	20 A	1		0 VA								10	
	11	PAGING XMITTER	20 A	1			0 VA			0 VA	1	20 A	EXHAUST FAN MECH RM	12	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BP1 (SWBD-7)

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 150 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
BASEMENT CLOSET BY MED REC RM SE203, FED FROM SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC CORR. B-01B	20 A	1	0 VA				0 VA		1	20 A	REC RM B-41,40,36,37	2	
	3	REC RM B-023	20 A	1		0 VA				0 VA	1	20 A	COPIER RM B-039	4	
	5	REC RM B-23 CORR. B-22	20 A	1			0 VA			0 VA	1	20 A	REC RM B-041	6	
	7	REC RM B-23,25,26,27	20 A	1	0 VA			0 VA			1	20 A	PARTITIONS RM B-40,41	8	
	9	REC RM B-23,25,26,27	20 A	1		0 VA			0 VA		1	20 A	REC RM B-040	10	
	11	REC RM B-23,25,26,27	20 A	1			0 VA			0 VA	1	20 A	REC RM B-036	12	
	13	REC RM B-30,28,29,01B	20 A	1	0 VA			0 VA			1	20 A	REC RM B-036	14	
	15	REC RM B-30,28,29,01B	20 A	1		0 VA			0 VA		1	20 A	REC RM B-036	16	
	17	REC RM B-30,28,29,01B	20 A	1			0 VA			0 VA	1	20 A	REC RM B-036	18	
	19	REC RM B-043	20 A	1	0 VA			0 VA			1	20 A	REC RM B-037	20	
	21	REC RM B-38B	20 A	1		0 VA			0 VA		1	20 A	REC RM B-039	22	
	23	REC RM B-38B	20 A	1			0 VA			0 VA	1	20 A	U.C. FRIDGE RM B-039	24	
	25	REC RM B-38A	20 A	1	0 VA			0 VA			1	20 A	Spare	26	
	27	REC RM B-031,032	20 A	1		0 VA			0 VA		1	20 A	ENTRANCE DOOR	28	
	29	REC RM B-031,032	20 A	1			0 VA			0 VA	1	20 A	Spare	30	
				Total Load:	0 VA		0 VA			0 VA					
				Total Amps:	0 A		0 A			0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BL1

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:**

Notes:
BASEMENT CLOSET BY MED REC RM SE203, FED SWBD-7 (SE205)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG BASEMENT SOUTH (WEST)	20 A	1	0 VA				0 VA		1	20 A	LTG BASEMENT SOUTH (EAST)	2	
	3	LTG BASEMENT SOUTH (WEST)	20 A	1		0 VA				0 VA	1	20 A	LTG BASEMENT SOUTH (EAST)	4	
	5	LTG BASEMENT SOUTH (WEST)	20 A	1			0 VA			0 VA	1	20 A	LTG BASEMENT SOUTH (EAST)	6	
	7	LTG BASEMENT SOUTH (WEST)	20 A	1	0 VA			0 VA			1	20 A	LTG BASEMENT SOUTH (CENTRAL)	8	
	9	LTG BASEMENT SOUTH (WEST)	20 A	1		0 VA			0 VA		1	20 A	LTG BASEMENT SOUTH (CENTRAL)	10	
	11	LTG CORR. B-01B	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	OUTSIDE CANOPY LTG	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
	19	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	20	
	21	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	22	
	23	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	24	
	25	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	26	
	27	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	28	
	29	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	30	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

JEREMY SCHUETTE NUMBER PE-2014000082
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL EXISTING PANEL SCHEDULES

SHEET
E-014

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: EC1B

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 80 A
MCB Rating:

Notes:
2ND FLOOR HSK-CLOSET 2409 (NUC. MEDICINE), CRITICAL POWER, ATS-0204, FED FROM PANEL EB-CRIT (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG HOT LAB	20 A	1	0 VA			0 VA			1	20 A	LTG ULTRASOUND 2401	2	
	3	PORTABLE CRAM	20 A	1		0 VA			0 VA		1	20 A	REC ULTRASOUND 2401	4	
	5	CAMERA 2413	20 A	3			0 VA			0 VA	1	20 A	MONITOR REC	6	
--	7	--	--	--	0 VA			0 VA			3	20 A	STRESS LAB REC	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
	11	X-RAY DATA RM UPS (2461)	20 A	2			0 VA			0 VA	--	--	--	12	--
--	13	--	--	--	0 VA			0 VA			2	20 A	BRIGHTVIEW 2425	14	
	15	RADIOLOGY READING	20 A	1		0 VA			0 VA		--	--	--	16	--
	17	LTG TREATMENT 2443	20 A	1			0 VA			0 VA	1	20 A	REC TREATMENT 2443	18	
	19													20	
	21													22	
	23													24	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1CR2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
1ST FLOOR SOUTH ADDITION, CRITICAL POWER, ATS-0204, FED FROM PANEL EB-CRIT (SOUTH BOILER ROOM SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 110	20 A	1	0 VA			0 VA			1	20 A	REC DINING RM	2	
	3	REC RM 111	20 A	1		0 VA			0 VA		1	20 A	FRIDGE S. NURSES STA (1-259)	4	
	5	REC RM 112	20 A	1			0 VA			0 VA	1	20 A	REC S. NURSES STA (1-259)	6	
	7	REC RM 113	20 A	1	0 VA			0 VA			1	20 A	REC MEDICATIONS RM	8	
	9	REC RM 114	20 A	1		0 VA			0 VA		1	20 A	FTU RM 120-124	10	
	11	REC RM 115	20 A	1			0 VA			0 VA	1	20 A	FTU RM 125-128	12	
	13	REC RM 116	20 A	1	0 VA			0 VA			1	20 A	REC CRASH CART	14	
	15	REC RM 120	20 A	1		0 VA			0 VA		1	20 A	REC N. NURSES STA (1-214)	16	
	17	REC RM 121	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
	19	REC RM 122	20 A	1	0 VA			0 VA			1	20 A	FTU RM 110-114	20	
	21	REC RM 123	20 A	1		0 VA								22	
	23	REC RM 124	20 A	1			0 VA			0 VA	1	20 A	RECS RM 128	24	
	25	REC RM 125	20 A	1	0 VA			0 VA			1	20 A	FRIDGE & ICE VISIT. LOUNGE	26	
	27	REC RM 126	20 A	1		0 VA			0 VA		1	20 A	PNEUMATIC TUBE STATION	28	
	29	REC RM 127	20 A	1			0 VA			0 VA	1	20 A	NURSE CALL	30	
	31							0 VA			1	20 A	MED GAS	32	
	33	NURSE CALL PANEL RM 1265	20 A	1		0 VA			0 VA		1	20 A	FIRE ALARM	34	
	35	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	36	
	37	HEADWALL LTG RM 121-127	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	HEADWALL LTG RM 110-120	20 A	1		0 VA			0 VA		1	20 A	Spare	40	
	41	LTG NURSES STATION	20 A	1			0 VA			0 VA	1	20 A	Spare	42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LCR2A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
2ND FLOOR ICU, CRITICAL POWER, ATS-0204, FED FROM PANEL EB-CRIT (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	POWER POLE RM 530	20 A	2	0 VA			0 VA			2	20 A	POWER POLE RM 536	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
	5	POWER POLE RM 531	20 A	2			0 VA			0 VA	2	20 A	POWER POLE RM 537	6	
--	7	--	--	--	0 VA			0 VA			--	--	--	8	--
	9	POWER POLE RM 532	20 A	2		0 VA			0 VA		2	20 A	POWER POLE RM 538	10	
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	POWER POLE RM 533	20 A	2	0 VA			0 VA			2	20 A	POWER POLE RM 539	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
	17	POWER POLE RM 534	20 A	2			0 VA			0 VA	2	20 A	POWER POLE RM 540	18	
--	19	--	--	--	0 VA			0 VA			--	--	--	20	--
	21	POWER POLE RM 535	20 A	2		0 VA			0 VA		2	20 A	POWER POLE RM 541	22	
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	REC N. RM VIEW STATION	20 A	1	0 VA			0 VA			1	20 A	REC S. RM VIEW STATION	26	
	27	PATIENT RM LTG 536-541	20 A	2		0 VA			0 VA		1	20 A	REC L575	28	
--	29	--	--	--			0 VA			0 VA	1	20 A	AUTO DOOR N. HALL	30	
	31	PATIENT RM LTG 530-535	20 A	2	0 VA			0 VA			1	20 A	REC NURSE STATION CRASH CART	32	
--	33	--	--	--		0 VA			0 VA		2	20 A	REC NURS STATION, L551 CLOSET	34	
	35	EMER. LTG L550,558,554,563,579	20 A	1			0 VA			0 VA	--	--	--	36	--
	37	EMER. LTG L550,551,NURSE...	20 A	1	0 VA			0 VA			1	20 A	REC L555 NURSE STATION SINK	38	
	39	EMER. LTG NURSE STATION,HALL	20 A	1		0 VA			0 VA		1	20 A	REC NURSE STATION N	40	
	41	EMER. LTG HALL WEST	20 A	1			0 VA			0 VA	1	20 A	AUTO DOOR S. HALL	42	
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2CR3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR SOUTH, CRITICAL POWER, ATS-0204, FED FROM PANEL EB-CRIT (MECH RM - SOUTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 264	20 A	1	0 VA			0 VA			1	20 A	REC NURSE STATION WEST	2	
	3	REC RM 263	20 A	1		0 VA			0 VA		1	20 A	REC NURSE STATION WEST	4	
	5	NURSE CALL	20 A	1			0 VA			0 VA	1	20 A	REC NURSE STATION WEST	6	
	7	REC RM 261	20 A	1	0 VA			0 VA			1	20 A	REC NURSE STATION EAST	8	
	9	REC RM 259, 260	20 A	1		0 VA			0 VA		1	20 A	REC NURSE STATION EAST	10	
	11	REC RM 257	20 A	1			0 VA			0 VA	1	20 A	REC NURSE STATION EAST	12	
	13	REC RM 257	20 A	1	0 VA			0 VA			1	20 A	FAN COIL NORTHWEST	14	
	15	REC RM 256	20 A	1		0 VA			0 VA		1	20 A	FAN COIL SOUTHWEST	16	
	17	REC RM 255	20 A	1			0 VA			0 VA	1	20 A	RAN COIL SOUTHEAST	18	
	19	REC RM 254	20 A	1	0 VA			0 VA			1	20 A	TRANSLOGIC	20	
	21	REC RM 253	20 A	1		0 VA			0 VA		1	20 A	EXISTING LOAD	22	
	23	REC RM 252	20 A	1			0 VA			0 VA	1	20 A	MED GAS ALARM	24	
	25	REC RM 251	20 A	1	0 VA			0 VA			1	20 A	NURSE CALL RM 3229	26	
	27	REC RM 250	20 A	1		0 VA			0 VA		1	20 A	Spare	28	
	29	REC DIAL ROOM	20 A	1			0 VA			0 VA	1	20 A	Spare	30	
	31	REC RM 258	20 A	1	0 VA			0 VA			1	20 A	Spare	32	
	33	REC DIAL ROOM	20 A	1		0 VA			0 VA		1	20 A	Spare	34	
	35	REC DIAL ROOM	20 A	1			0 VA			0 VA	1	20 A	Spare	36	
	37	LTG HEADWALL EAST	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	LTG HEADWALL WEST	20 A	1		0 VA			0 VA		1	20 A	Spare	40	
	41	LTG NURSE STATION	20 A	1			0 VA							42	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2CR4

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR WEST HALLWAY, CRITICAL POWER, ATS-0204, FED FROM PANEL EB-CRIT (SOUTH BOILER RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 273	20 A	1	0 VA			0 VA			1	20 A	REC RM 272	2	
	3	REC RM 274	20 A	1		0 VA			0 VA		1	20 A	REC RM 271	4	
	5	REC RM 275	20 A	1			0 VA			0 VA	1	20 A	REC RM 3116	6	
	7	REC RM 276	20 A	1	0 VA			0 VA			1	20 A	FCU RMS EAST	8	
	9	REC RM 277	20 A	1		0 VA			0 VA		1	20 A	FCU RMS WEST	10	
	11	REC RM 278	20 A	1			0 VA			0 VA	1	20 A	HEADWALL LTG EAST	12	
	13	REC NURSE STATION	20 A	1	0 VA			0 VA			1	20 A	PENTHOUSE LTG	14	
	15	REC MONITOR	20 A	1		0 VA			0 VA		1	20 A	PENTHOUSE RECS	16	
	17	REC MEDS	20 A	1			0 VA			0 VA	1	20 A	ANTENNA AMPS	18	
	19	REC CLEAN UTILITY	20 A	1	0 VA			0 VA			1	20 A	3-LIGHT BEACON ON ROOF	20	
	21	REC CRASH CART	20 A	1		0 VA			0 VA		1	20 A	DED. REC RM 3229	22	
	23	REC MONITOR	20 A	1			0 VA			0 VA	1	20 A	REC RM 3116	24	
	25	REC MONITOR	20 A	1	0 VA			0 VA			1	20 A	REC RM 3116	26	
	27	MED GAS ALARM	20 A	1		0 VA			0 VA		1	20 A	REC RM 3116	28	
	29	LTG WEST	20 A	1			0 VA							30	
	31	UPS RM 3229	30 A	2	0 VA									32	
--	33	--	--	--		0 VA								34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2CR5

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR WEST RM 3222, CRITICAL POWER, ATS-0204, FED FROM PANEL EB-CRIT (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	OUTLETS RM 383	20 A	1	0 VA			0 VA			1	20 A	WIND CONE ON ROOF	2	
	3	OUTLETS RM 385	20 A	1		0 VA			0 VA		1	20 A	BED STORAGE RECS	4	
	5	OUTLETS RM 3221	20 A	1			0 VA			0 VA	1	20 A	HALLWAY OUTLET ACROSS 3124	6	
	7	OUTLETS RM 378	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9	OUTLETS RM 376	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	FRIDGE REHAB BREAKRM	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	UPPER MICROWAVE REC BRKRM	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15								0 VA		1	20 A	Spare	16	
	17									0 VA	1	20 A	Spare	18	
	19							0 VA			1	20 A	Spare	20	
	21								0 VA		1	20 A	Spare	22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS FROM 'ATS-0203' AFFECTED BY PLANNED OUTAGE #5. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

2 EXISTING PANELS FROM 'ATS-0204' AFFECTED BY PLANNED OUTAGE #5. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

Branch Panel: EB-LS

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 225 A
MCB Rating:

Notes:
BASEMENT ELEC. RM SE206A, LIFE SAFETY POWER, ATS-0203, FED FROM ATS-0203 (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	BPLS	20 A	3	0 VA			0 VA			3	20 A	EBB	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	--	--	--	6	--
	7							0 VA			3	20 A	2LS2	8	
	9	EM. LTG SE206A	20 A	1		0 VA			0 VA		--	--	--	10	--
	11									0 VA	--	--	--	12	--
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: EMGB

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
1ST FLOOR ADMIN OFFICE 1241, CRITICAL POWER, ATS-0204, FED FROM ATS-0204 (SE206A)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	Spare	20 A	1	0 VA			0 VA			1	20 A	EMER. LTG STAIRWELL	2	
	3	REC PHARMACY	20 A	1		0 VA			0 VA		1	20 A	FAN UNIT ADMIN.	4	
	5	Spare	20 A	1			0 VA			0 VA	1	20 A	FAN UNIT CONF. PHYS REL	6	
	7													8	
	9													10	
	11													12	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL EXISTING PANEL SCHEDULES

SHEET
E-015

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: HE1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR ED CLOSET RM 2122, CRITICAL POWER, ATS-0302, FED FROM EDP-C (GENERATOR ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG - ER	20 A	1	0 VA			0 VA			1	20 A	ENTRANCE CANOPY	2	
	3								0 VA		1	20 A	ENTRANCE CANOPY	4	
	5													6	
	7													8	
	9	GIFT SHOP / EMERGENCY RM	20 A	1		0 VA								10	
	11									0 VA	1	20 A	LTG - ER / AMBULANCE GARAGE	12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23	HELIPAD	20 A	3			0 VA							24	
--	25	--	--	--	0 VA									26	
--	27	--	--	--		0 VA								28	
	29													30	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: HE1D

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR CCL HALLWAY, CRITICAL POWER, ATS-0302, FED FROM PANEL EDP-C (GENERATOR ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LIGHTS O.R. 1	20 A	1	0 VA			0 VA			1	20 A	LTG 2ND FLOOR HALL	2	
	3	LIGHTS O.R. 2	20 A	1		0 VA			0 VA		1	20 A	LTG 2ND FLOOR HALL	4	
	5	LIGHTS O.R. 3	20 A	1			0 VA			0 VA	1	20 A	LTG PROCEDURE & CONTROL RM	6	
	7	LIGHTS O.R. 6	20 A	1	0 VA			0 VA			1	20 A	LTG RECOVERY (INPAT)	8	
	9	LIGHTS O.R. 5	20 A	1		0 VA			0 VA		1	20 A	LTG RECOVERY (INPAT)	10	
	11	LIGHTS O.R. 4	20 A	1			0 VA			0 VA	1	20 A	LTG RECOVERY (OUTPAT)	12	
	13	LTG LYSTO	20 A	1	0 VA			0 VA			1	20 A	LTG RECOVERY (OUTPAT)	14	
	15	LTG SCHEDULE/PREP	20 A	1		0 VA			0 VA		1	20 A	S.P. LYSTO	16	
	17	LTG CENTRAL STERILE	20 A	1			0 VA			0 VA	1	20 A	S.P. O.R. 1	18	
	19	XFMR - LAZER	20 A	3	0 VA			0 VA			1	20 A	S.P. O.R. 2	20	
--	21	--	--	--		0 VA			0 VA		1	20 A	S.P. O.R. 4	22	
--	23	--	--	--			0 VA			0 VA	1	20 A	S.P. O.R. 1	24	
	25	PUMP ROOM PANEL	20 A	3	0 VA			0 VA			1	20 A	S.P. O.R. 5	26	
--	27	--	--	--		0 VA			0 VA		1	20 A	S.P. O.R. 6	28	
--	29	--	--	--			0 VA			0 VA	1	20 A	S.P. O.R. 7	30	
	31	XFMR - LE1D	20 A	3	0 VA			--			1	--	UNAVAILABLE SPACE	32	
--	33	--	--	--		0 VA			--		1	--	UNAVAILABLE SPACE	34	
--	35	--	--	--			0 VA			--	1	--	UNAVAILABLE SPACE	36	
	37	CRU-1	20 A	3	0 VA			0 VA			3	20 A	CU-1 ON ROOF	38	
--	39	--	--	--		0 VA			0 VA		--	--	--	40	--
--	41	--	--	--			0 VA			0 VA	--	--	--	42	--
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LE1C

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
2ND FLOOR OB, CRITICAL POWER, ATS-0302, FED FROM PANEL EDP-C (GENERATOR RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1							0 VA			3	20 A	CAL 752 74,76,78 AC	2	
	3	AMP	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	AMP	20 A	1			0 VA			0 VA	--	--	--	6	--
	7	REC TELE EQUIP. RM	20 A	2	0 VA			0 VA			1	20 A	LTG-CHAPEL	8	
--	9	--	--	--		0 VA			0 VA		2	20 A	REC HALLWAY CEILING	10	
	11	REC TELE EQUIP. RM	20 A	2			0 VA			0 VA	--	--	--	12	--
--	13	--	--	--	0 VA			0 VA			2	20 A	UPS PHONE RM	14	
	15	REC TELE EQUIP. RM	20 A	2		0 VA			0 VA		--	--	--	16	--
--	17	--	--	--			0 VA			0 VA	1	20 A	REC RTU OB	18	
	19	REC TRIAGE RM #1	20 A	1	0 VA			0 VA			1	20 A	EMERGENCY LTG ADMIN OFFICE	20	
	21	REC TRIAGE RM #2	20 A	1		0 VA			0 VA		1	20 A	LTG TRIAGE RM #1	22	
	23	REC TRIAGE SUITE	20 A	1			0 VA			0 VA	1	20 A	LTG TRIAGE RM #2	24	
	25	REC TRIAGE RM #3	20 A	1	0 VA			0 VA			1	20 A	LTG TRIAGE SUITE	26	
	27	REC WHEELCHAIR RM	20 A	1		0 VA			0 VA		1	20 A	LTG TRIAGE RM #3	28	
	29	REC LDRP	20 A	1			0 VA			0 VA	1	20 A	LTG LDRP	30	
	31	RESPONDER 4000 MECH RM 2116	20 A	1	0 VA			0 VA			1	20 A	LTG LDRP	32	
	33	UPS PHONE RM	20 A	2		0 VA			0 VA		1	20 A	REC PBX	34	
--	35	--	--	--			0 VA			0 VA	1	20 A	REC PBX	36	
	37	PANEL LE2C	20 A	3	0 VA			0 VA			1	20 A	REC OUTSIDE RM 2200	38	
--	39	--	--	--		0 VA			0 VA		1	20 A	REC PBX	40	
--	41	--	--	--			0 VA			0 VA	1	20 A	ALARM CAB. PBX	42	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LE1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 200 A
MCB Rating:

Notes:
2ND FLOOR ED CLOSET RM 2122, CRITICAL POWER, ATS-0302, FED FROM PANEL EDP-C (GENERATOR RM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1							0 VA			1	20 A	REC ER 11	2	
	3	EXAM LTG - ER 5&6, RM 237	20 A	1		0 VA			0 VA		1	20 A	REC ER 12	4	
	5	Spare	20 A	1			0 VA			0 VA	1	20 A	REC ER 14	6	
	7	Spare	20 A	1	0 VA			0 VA			1	20 A	REC ER 15	8	
	9	REC TRAUMA HEADWALL	20 A	1		0 VA			0 VA		1	20 A	REC MEDS RM 243	10	
	11	REC TRAUMA HEADWALL	20 A	1			0 VA			0 VA	1	20 A	REC ER 18,19,20	12	
	13	REC TRAUMA	20 A	1	0 VA			0 VA			1	20 A	SPARE TO GIFT SHOP	14	
	15	REC TRAUMA	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17	REC CARDIAC HEADWALL	20 A	1			0 VA			0 VA	1	20 A	REC STAGING	18	
	19	REC CARDIAC HEADWALL	20 A	1	0 VA			0 VA			1	20 A	REC STAGING / EM. EXIT GIFT SHOP	20	
	21	REC CARDIAC	20 A	1		0 VA			0 VA		1	20 A	REC TREATMENT HEADWALL	22	
	23	REC CARDIAC	20 A	1			0 VA			0 VA	1	20 A	PNU TUBE	24	
	25	REC CRASH CAST	20 A	1	0 VA			0 VA			1	20 A	NURSE CALL	26	
	27	REC CAST HEADWALL	20 A	1		0 VA								28	
	29	REC CAST HEADWALL	20 A	1			0 VA							30	
	31	REC CAST	20 A	1	0 VA									32	
	33	REC CAST	20 A	1		0 VA			0 VA		1	20 A	REC NURSE STATION 254	34	
	35	REC ER 7	20 A	1			0 VA							36	
	37	REC ER 8	20 A	1	0 VA			0 VA			1	20 A	REC PORTABLE X-RAY	38	
	39	REC ER 9	20 A	1		0 VA								40	
	41	ICE MACHINE	20 A	1			0 VA							42	
	43	REC ER NURSE STATION	20 A	1	0 VA			0 VA			1	20 A	REC TREATMENT RM	44	
	45	REC ER NURSE STATION	20 A	1		0 VA			0 VA		1	20 A	REC CATH. RECOVERY	46	
	47	REC DATA RM 238	20 A	1			0 VA			0 VA	1	20 A	REC RAD. HOLD	48	
	49	REC DATA RM 238/FIRE ALARM...	20 A	1	0 VA			0 VA			1	20 A	REC X-RAY	50	
	51	REC NURSE STATION 254	20 A	1		0 VA			0 VA		1	20 A	AMBULANCE OVERHEAD DOOR	52	
	53	CORR. 249	20 A	1			0 VA			0 VA	1	20 A	AMBULANCE WEST DOOR	54	
	55	CORR. 249	20 A	1	0 VA			0 VA			1	20 A	DR. LOBBY	56	
	57	PSYCH. RM 13	20 A	1		0 VA			0 VA		1	20 A	DR. LOBBY	58	
	59	ER 10	20 A	1			0 VA			0 VA	1	20 A	DR. OP. EM.	60	
	61	ER 10	20 A	1	0 VA			0 VA			1	20 A	DR. OP. EM.	62	
	63	REC CATH. LAB	20 A	1		0 VA			0 VA		1	20 A	DR. OP. AMB. PORT	64	
	65									0 VA	1	20 A	REC NURSE STATION 254	66	
	67	REC 237	20 A	1	0 VA			0 VA			1	20 A	REC NURSE STATION 254	68	
	69	REC 236	20 A	1		0 VA			0 VA		1	20 A	CATV 240 CORRIDOR	70	
	71	REC TREATMENT HEADWALL	20 A	1			0 VA			0 VA	1	20 A	REC ER ADMISSIONS	72	
	73	REC TREATMENT HEADWALL	20 A	1	0 VA			0 VA			1	20 A	LTG ER ADMISSIONS	74	
	75	OUTSIDE SIGN	20 A	2		0 VA								76	
--	77	--	--	--			0 VA			0 VA	1	20 A	REC ER WAITING	78	
	79	KODAK 300 PROCESSOR	20 A	1	0 VA			0 VA			1	20 A	PATIENT LTG ER 18,19,20	80	
	81	REC DATA RM 238 JOHNSON CNTLS	20 A	1		0 VA			0 VA		1	20 A	LTG VESTIBULE	82	
	83													84	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: LE1D

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
2ND FLOOR CCL HALLWAY, CRITICAL POWER, ATS-0302, FED FROM PANEL EDP-C (GENERATOR ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	106 PUMP RM REC	20 A	3	0 VA			0 VA			2	20 A	INPATIENT MONITORS	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	2	20 A	REC INPATIENT	6	
	7	REC STERILE CORR.	20 A	1	0 VA			0 VA			--	--	--	8	--
	9	BLANKET WARMER	20 A	1		0 VA			0 VA		2	20 A	REC INPATIENT	10	
	11	STERILIZER	20 A	1			0 VA			0 VA	--	--	--	12	--
	13	REC SUB. STERILE	20 A	1	0 VA			0 VA			1	20 A	ICE MACHINE	14	
	15	103 SUB STERILE REC	20 A	2		0 VA			0 VA		1	20 A	WARMER LAB	16	
--	17	--	--	--			0 VA			0 VA	1	20 A	REC INPATIENT H.S.	18	
	19	AHU-3 LTG	20 A	1	0 VA			0 VA			1	20 A	INPATIENT FRIDGE	20	
	21	REC UTILITY	20 A	1		0 VA			0 VA		1	20 A	OUTPATIENT ICE MACHINE	22	
	23	REC CLEAN CORR.	20 A	1			0 VA			0 VA	1	20 A	OUTPATIENT FRIDGE	24	
	25	112 ANESTHESIA REC	20 A	3	0 VA			0 VA			1	20 A	125 SURGERY CONTROL REC	26	
--	27	--	--	--		0 VA			0 VA		--	--	WARMING LAB	28	
--	29	--	--	--			0 VA			0 VA	2	20 A	REC OUTPATIENT	30	
	31	REC. SCHEDULE	20 A	1	0 VA			0 VA			--	--	--	32	--
	33	PTS REC	20 A	1		0 VA			0 VA		1	20 A	RM 5 SOILED UTILITY REC	34	
	35	STERIS IN SURGERY SUITE	20 A	1			0 VA			0 VA	1	20 A	REC RMS 3,4,5,6	36	
	37	ROOM 1 REC	20 A	3	0 VA			0 VA			2	20 A	REC RMS 4,5,6	38	
--	39	--	--	--		0 VA			0 VA		--	--	--	40	--
--	41	--	--	--			0 VA			0 VA	1	20 A	REC RMS 4,6	42	
	43	ELEV EQUIP RM	20 A	3	0 VA			0 VA			1	20 A	HALLWAY DOORS	44	
--	45	--	--	--		0 VA			0 VA		2	20 A	REC CLEAN SUPPLY	46	
--	47	--	--	--			0 VA			0 VA	--	--	--	48	--
	49	RTU 705 REC	20 A	1	0 VA			0 VA			2	20 A	REC CLEAN SUPPLY	50	
	51	103 STERILIZER	20 A	1		0 VA			0 VA		--	--	--	52	--
	53	DOWN LTG PROCEDURE RM	20 A	1			0 VA			0 VA	1	20 A	MED GAS	54	
	55	REC RM 2,3	20 A	1	0 VA			0 VA			1	20 A	EX. CKT	56	
	57	REC CLEAN SUPPLY	20 A	1		0 VA			0 VA		1	20 A	REC CRASH CART HOLDING AREA	58	
	59	EX. CKT	20 A	1			0 VA			0 VA	3	20 A	DR. OP. REC	60	
	61	103 BLANKET WARMER	20 A	1	0 VA			0 VA			--	--	--	62	--
	63	HEATER STAIRS & VESTIBULE	20 A	1		0 VA			0 VA		--	--	--	64	--
	65	EX. CKT	20 A	1			0 VA			0 VA	1	20 A	STERILIZER	66	
	67	REC HOLDING AREA	20 A	1	0 VA			0 VA			2	20 A	AERATOR & WATER SOFTENER	68	
	69	EX. CKT	20 A	1		0 VA			0 VA		--	--	--	70	--
	71	PRO DOOR OPER & CONTROL	20 A	1			0 VA			0 VA	1	20 A	STERILIZER	72	
	73	PANEL ECG	20 A	3	0 VA			0 VA			2	20 A	REC CONTROL RM	74	
--	75	--	--	--		0 VA			0 VA		--	--	--	76	--
--	77	--	--	--			0 VA			0 VA	1	20 A	REC CONTR. PROCED. &...	78	
	79							0 VA			1	20 A	REC PROCEDURE RM	80	
	81								0 VA		1	20 A	REC EQUIPMENT RM	82	
	83									0 VA	1	20 A	REC CRASH CART PROCED. RM	84	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: LAZER

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 125 A
MCB Rating:

Notes:
2ND FLOOR CCL HALLWAY, CRITICAL POWER, ATS-0302, FED FROM PANEL EDP-C (GENERATOR ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	O.R. #1	20 A	3	0 VA			0 VA			3	20 A	O.R. #4	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
--	5	--	--	--			0 VA			0 VA	--	--	--	6	--
	7	O.R. #5	20 A	3	0 VA			0 VA			3	20 A	O.R. #2	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	SPARE TO RM 2198	20 A	2	0 VA			0 VA			2	20 A	RECEPT PROCEDURE	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
	17	SPARE TO RM 2198	20 A	2			0 VA			0 VA	1	20 A	RECEPT ABOVE CEIL PHONE	18	
--	19	--	--	--	0 VA			0 VA			1	20 A	2 DOORS-CATH LAB & HALLWAY	20	
	21	O.R. #7 RAH 4-06	20 A	2		0 VA			0 VA		1	20 A	LTG PROCED SURG & IN-USE	22	
--	23	--	--	--			0 VA							24	
	25	CATH LAB	20 A	3	0 VA			0 VA			1	20 A	O.R. #6	26	
--	27	--	--	--		0 VA			0 VA		--	--	--	28	--
--	29	--	--	--			0 VA			0 VA	--	--	--	30	--
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: EP3

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
3RD FLOOR LAB, CRITICAL POWER, ATS-0302, FED FROM PANEL EB-CRIT (SOUTH BOILER RM / MECH RM 9)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG ENTR./RR/RECEPT./BLOOD...	20 A	1	0 VA			0 VA			1	20 A	DOOR LOCK SYS/ CARD READERS	2	
	3	LTG LAB EAST	20 A	1		0 VA			0 VA		1	20 A	OFFICE COMP. RECS	4	
	5	LTG LAB WEST	20 A	1			0 VA			0 VA	1	20 A	EX. HISTOLOGY/CYTOLOGY LTG	6	
	7	OFFICE COMP. RECS	20 A	1	0 VA			0 VA			1	20 A	REGISTRATION PRINTER (129)	8	
	9	OFFICE COMP. RECS	20 A	1		0 VA			0 VA		1	20 A	REGISTRATION COMP. (117,141,103)	10	
	11	EX. RECS HISTOLOGY/CYTOLOGY	20 A	1			0 VA			0 VA	1	20 A	OFFICE PRINTER RECS (125,126)	12	
	13	EX. RECS HISTOLOGY/CYTOLOGY	20 A	1	0 VA			0 VA			1	20 A	EXISTING EF	14	
	15	POC PRINTER (151)	20 A	1		0 VA			0 VA		1	20 A	CP IMMUNO ASSAY	16	
	17	SUPERVISOR COMP. RECS	20 A	1			0 VA			0 VA	1	20 A	CHEM. COMP. (PC 94)	18	
	19	RXL-1 (26)	20 A	1	0 VA			0 VA			1	20 A	EX. SEROLOGY OFFICE RECS	20	
	21	UA COMPUTERS	20 A	1		0 VA			0 VA		1	20 A	TRACKING MONITORS	22	
	23	RXL-2	20 A	1			0 VA			0 VA	1	20 A	RXL-2	24	
	25	RXL-1 (26)	20 A	1	0 VA			0 VA			1	20 A	POC SERVER (150)	26	
	27	UA GEN. RECS	20 A	1		0 VA			0 VA		1	20 A	HEMO/COAG FRIDGE (72)	28	
	29	SYSMEX (8,9)	20 A	1			0 VA			0 VA	1	20 A	HEMO PRINTER RECS	30	
	31	HEMO COMP. RECS (PC 93)	20 A	1	0 VA			0 VA			1	20 A	HEMO GEN. RECS	32	
	33	HEMO COMP. RECS (PC 90)	20 A	1		0 VA			0 VA		1	20 A	BLOOD BANK FLOOR BOX	34	
	35	COMP. RECS	20 A	1			0 VA			0 VA	1	20 A	CHEM. GEN. RECS	36	
	37	GEN. COUNTER RECS	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	VISTA 500	20 A	2		0 VA			0 VA		2	20 A	VISTA 500	40	
--	41	--	--	--			0 VA			0 VA	--	--	--	42	--
	43	BLOOD BANK PC'S (PC 82, PC 88)	20 A	1	0 VA			0 VA			1	20 A	CHEM. GEN. RECS	44	
	45	UPS	20 A	2		0 VA			0 VA		1	20 A	COAG GEN. RECS	46	
--	47	--	--	--			0 VA			0 VA	2	20 A	UPS	48	
	49	BLOOD BANK EQUIPMENT (55,56)	20 A	1	0 VA			0 VA			--	--	--	50	--
	51	NEW CORRIDOR LTG	20 A	1		0 VA			0 VA		2	20 A	UPS	52	
	53	MILLEPORE UNIT 1	20 A	1			0 VA			0 VA	--	--	--	54	--
	55	PLATELET ROTATOR (57)	20 A	1	0 VA			0 VA			1	20 A	PLASMA FREEZER (59)	56	
	57	ECHO MACHINE (144)	20 A	1		0 VA			0 VA		1	20 A	ECHO MACHINE (144)	58	
	59	SENDOUT&BLOOD BK.	20 A	1			0 VA			0 VA	1	20 A	PLASMA FREEZER (60)	60	
	61	SENDOUT WORKSTATIONS	20 A	1	0 VA			0 VA			1	20 A	BLOOD BANK FRIDGE (5)	62	
	63	BLOOD BNK CELL WASH&CNFG...	20 A	1		0 VA			0 VA		1	20 A	BLOOD BANK FRIDGE (4)	64	
	65	SENDOUT PRINTER (152)	20 A	1			0 VA			0 VA	1	20 A	CHEM. PC (PC 98) PRINTER (127)	66	
	67	ACCESSIONING COMP.(PC85),...	20 A	1	0 VA			0 VA			1	20 A	COAG ANALYZERS (20,21)	68	
	69	SENDOUT PCS (PC 134, PC 137)	20 A	1		0 VA			0 VA		1	20 A	COAG PFA SERVER (1%)	70	
	71	SENDOUT PCS (PC 79, PC 83)	20 A	1			0 VA			0 VA	1	20 A	COAG PRINTER	72	
	73	HEMO GEN. RECS	20 A	1	0 VA			0 VA			1	20 A	COAG INCUBATOR	74	
	75	GEN. RECS	20 A	1		0 VA			0 VA		1	20 A	COAG STAT SPIN(28),...	76	
	77	Spare	20 A	1			0 VA			0 VA	1	20 A	COAG PC'S (PC101,PC?)	78	
	79	REAGENT COOLER	20 A	1	0 VA			0 VA			1	20 A	COAG GEN. RECS	80	
	81	XPT REC	20 A	1		0 VA			0 VA		2	20 A	UPS	82	
	83	EF-VISTA 500	20 A	1			0 VA			0 VA	--	--	--	84	--
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:			0 A		0 A		0 A					

Branch Panel: LS1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
2ND FLOOR ED CLOSET RM 2122, LIFE SAFETY POWER, ATS-0304, FED FROM HS1A

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC GAS RM	20 A	1	0 VA			0 VA			1	20 A	FIRE ALARM	2	
	3	HEATER GAS RM	20 A	1		0 VA			0 VA		1	20 A	DOOR OPENER 2131	4	
	5	MRI FA DRY SYSTEM	20 A	2			0 VA			0 VA	1	20 A	REC BOILER ROOM	6	
--	7	--	--	--	0 VA			0 VA			1	20 A	MECHANICAL RM	8	
	9	PHARMACY	20 A	1		0 VA			0 VA		1	20 A	REC ELEVATOR PENTHOUSE	10	
	11	PHARMACY	20 A	1			0 VA			0 VA	1	20 A	LTG ELEVATOR	12	
	13	PHARMACY	20 A	1	0 VA			0 VA			1	20 A	EXAM LTG ER 10-12-15	14	
	15	PHARMACY	20 A	1		0 VA			0 VA		1	20 A	24V XFMR HVAC CONTROLS	16	
	17	OUTSIDE LTG TIMER	20 A	2			0 VA			0 VA	1	20 A	24V XFMR HVAC CONTROLS	18	
--	19	--	--	--	0 VA			0 VA			1	20 A	NURSE STATION CDU	20	
	21	REC CDU 1	20 A	1		0 VA			0 VA		1	20 A	MED GAS CDU	22	
	23	REC CDU 2	20 A	1			0 VA			0 VA	1	20 A	NURSE STATION CDU	24	
	25	REC CDU 3	20 A	1	0 VA			0 VA			1	20 A	REC AMBULANCE RADIO	26	
	27	REC CDU 4	20 A	1		0 VA			0 VA		1	20 A	DOOR OPENER	28	
	29	REC CDU 5	20 A	1			0 VA			0 VA	1	20 A	CDU PATIENT LTG	30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: HS1A

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 125 A
MCB Rating:

Notes:
2ND FLOOR ED CLOSET RM 2122, LIFE SAFETY POWER, ATS-0304, DIRECT FEED FROM ATS-0304

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	CORR. LTG	20 A	1	0 VA			0 VA			1	20 A	CORR. LTG	2	
	3	CORR. LTG	20 A	1		0 VA			0 VA		1	20 A	CORR. LTG	4	
	5	CORR. LTG	20 A	1			0 VA			0 VA	1	20 A	CORR. LTG	6	
	7	XFMR - LS1A	20 A	3	0 VA			0 VA			1	20 A	LTG BOILER ROOM	8	
--	9	--	--	--		0 VA			0 VA		1	20 A	CORR. LTG	10	
--	11	--	--	--			0 VA							12	
	13							0 VA			3	20 A	PENTHOUSE A	14	
	15								0 VA		--	--	--	16	--
	17	LTG CDU, 235, 240	20 A	1			0 VA			0 VA	--	--	--	18	--
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: K-1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
2ND FLOOR KITCHEN, CRITICAL POWER, ATS BECRD, FED FROM PANEL BECRD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	KITCHEN LTG	20 A	1	0 VA			0 VA			1	20 A	KITCHEN LTG	2	
	3	HOOD LTG	20 A	1		0 VA			0 VA		1	20 A	KITCHEN LTG	4	
	5	SPARE ABOVE PANEL	20 A	1			0 VA							6	
	7	LIGHT IN HALL CLOSET	20 A	1	0 VA			0 VA			1	20 A	FREEZER - PREP REC	8	
	9								0 VA		1	20 A	BIG FRIDGE	10	
	11	KITCHEN REC BY OFFICE	20 A	1			0 VA			0 VA	1	20 A	MICROWAVE	12	
	13	MIXER - FREEZER	20 A	1	0 VA			0 VA			2	20 A	220 ON FIRST COLUMN	14	
	15	SPARE BY OLD WINDOWS	20 A	1		0 VA			0 VA		--	--	--	16	--
	17	KITCHEN REC	20 A	1			0 VA			0 VA	2	20 A	BEHIND BIG FREEZER	18	
	19	WARMER - OVER PREP	20 A	1	0 VA			0 VA			--	--	--	20	--
	21	TEA - HOOD REC	20 A	2		0 VA			0 VA		2	20 A	COFFEE MACHINE	22	
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: K-2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
2ND FLOOR KITCHEN, CRITICAL POWER, ATS BECRD, FED FROM PANEL BECRD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC ABOVE CEIL	20 A	1	0 VA			0 VA			1	20 A	LINE REC	2	
	3	SPARE ON FAR KITCHEN WALL	20 A	1		0 VA			0 VA		1	20 A	WALK-IN 1 FANS	4	
	5	REC BY SLICER	20 A	1			0 VA			0 VA	1	20 A	WALK-IN FREEZER REC	6	
	7	REC BY HOOD	20 A	1	0 VA			0 VA			1	20 A	SLICER REC	8	
	9	WALK-IN LTG 1&2	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	ICE MACHINE	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	REC IN KITCHEN HALL	20 A	1		0 VA			0 VA		1	20 A	REC DISHWASHER AREA	16	
	17	REC UNDER HOOD	20 A	1			0 VA			0 VA	1	30 A	TOASTER 30A	18	
	19	SPARE OVER WALK-IN 1	20 A	1	0 VA			0 VA			1	20 A	WALK-IN 2 FANS	20	
	21	FREEZER - FRIDGE	20 A	1		0 VA			0 VA		1	20 A	LINE REC	22	
	23	REF - LINE REC	20 A	1			0 VA			0 VA	1	20 A	REC IN KITCHEN HALL	24	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: LCR1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
2ND FLOOR OB, CRITICAL POWER, ATS-BECRD, FED FROM PANEL BECRD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG RM 511	20 A	1	0 VA			0 VA			1	20 A	REC RM 510	2	
	3	LTG RM 512	20 A	1		0 VA			0 VA		1	20 A	REC RM 511	4	
	5	LTG RM 513, HEADWALL LTG...	20 A	1			0 VA			0 VA	1	20 A	REC RM 512	6	
	7	LTG RM 514	20 A	1	0 VA			0 VA			1	20 A	REC RM 513	8	
	9	LTG C-SECTION RM	20 A	1		0 VA			0 VA		1	20 A	REC RM 514	10	
	11	LTG C-SECTION RM	20 A	1			0 VA			0 VA	1	20 A	REC RM 515	12	
	13	LTG LEVEL 1&2 NURSERY &...	20 A	1	0 VA			0 VA			1	20 A	REC RM 516	14	
	15	LTG NURSE...	20 A	1		0 VA			0 VA		1	20 A	REC RM 517	16	
	17	REC GAS COLUMN C-SECTION RM	20 A	1			0 VA			0 VA	1	20 A	REC RM 518	18	
	19	Spare	20 A	1	0 VA			0 VA			1	20 A	SURG. LTG C-SECTION RM	20	
	21	REC N WALL C-SECTION	20 A	1		0 VA			0 VA		1	20 A	REC RM 519	22	
	23	REC E. & S. WALL C-SECTION	20 A	1			0 VA			0 VA	1	20 A	REC RM 520	24	
	25	REC CRASH CART NURSE STATION	20 A	1	0 VA			0 VA			1	20 A	Spare	26	
	27	ELECTRIC AUTO DOOR SUBSTERILE	20 A	1		0 VA			0 VA		1	20 A	REC LEVEL 1 NURSERY	28	
	29	ELECTRIC AUTO DOOR C-SECTION	20 A	1			0 VA			0 VA	1	20 A	REC LEVEL 1 NURSERY	30	
	31	REC SUBSTERILE,SINK & WARMIN...	20 A	1	0 VA			0 VA			1	20 A	REC LEVEL 1 NURSERY	32	
	33	REC NOURISH&V.C. FRIDGE MEDS	20 A	1		0 VA			0 VA		1	20 A	REC LEVEL 1 NURSERY	34	
	35	ICE MACHINE NOURISH	20 A	1			0 VA			0 VA	1	20 A	REC LEVEL 2 NURSERY	36	
	37	V.C. FRIDGE SUBSTERILE, NOURISH	20 A	1	0 VA			0 VA			1	20 A	REC NURSE STATION	38	
	39	PNEUMATIC TUBE STATION #6 RM...	20 A	1		0 VA			0 VA		1	20 A	REC E. WALL NURSE STATION	40	
	41	Spare	20 A	1			0 VA			0 VA	1	20 A	NURSE CALL CAB. ELEC CLOSET	42	
	43	MED. GAS AL RM NOURISH	20 A	1	0 VA			0 VA			1	20 A	BLANKWARMER-WRKRM	44	
	45	REC TELE RM	20 A	2		0 VA			0 VA		1	20 A	REC WRKRM & NURS MN R	46	
--	47	--	--	--			0 VA			0 VA	1	20 A	LTG RM 510	48	
	49	CART RM REC	20 A	1	0 VA									50	
	51	SECURITY REC	20 A	1		0 VA			0 VA		1	20 A	RESPONDER RM 2164	52	
	53	QS RACK MECH RM	20 A	1			0 VA			0 VA	2	20 A	OB COMPUTER RM UPS	54	
	55	OB COMPUTER RM UPS	20 A	2	0 VA			0 VA			--	--	--	56	--
--	57	--	--	--		0 VA								58	
	59													60	
	61													62	
	63													64	
	65													66	
	67													68	
	69													70	
	71													72	
	73													74	
	75													76	
	77													78	
	79													80	
	81													82	
	83													84	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:
2-SECTION

Branch Panel: 1CR1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
1ST FLOOR NEAR ELEVATOR A, CRITICAL POWER, ATS-BECRD, FED FROM PANEL BECRD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RM 152 REC	20 A	1	0 VA									2	
	3	RM 151 REC	20 A	1		0 VA								4	
	5	RM 150 REC	20 A	1			0 VA							6	
	7	RM 149 REC	20 A	1	0 VA			0 VA			1	20 A	REC CONFERENCE RM	8	
	9	RM 148 REC	20 A	1		0 VA			0 VA		1	20 A	REC CONFERENCE RM	10	
	11	RM 147 REC	20 A	1			0 VA			0 VA	1	20 A	REC CONFERENCE RM	12	
	13	RM 146 REC	20 A	1	0 VA			0 VA			1	20 A	MED RM	14	
	15	RM 145 REC	20 A	1		0 VA			0 VA		1	20 A	MED GAS ALARM	16	
	17	IT RM LTG & DOOR LOCKS	20 A	1			0 VA			0 VA	1	20 A	LTG NURSE STATION	18	
	19	CORR. LTG	20 A	1	0 VA			0 VA			1	20 A	NURSE CALL PANEL	20	
	21	CORR. LTG EAST	20 A	1		0 VA								22	
	23	IT RM WORKSTATION	20 A	1			0 VA							24	
	25	IT RM WORKSTATION	20 A	1	0 VA									26	
	27	SLEEP LAB 130	20 A	1		0 VA								28	
	29													30	
	31	REC CONFERENCE RM	20 A	1	0 VA			0 VA			1	20 A	LTG CONFERENCE RM	32	
	33	REC CONFERENCE RM	20 A	1		0 VA			0 VA		1	20 A	LTG CONFERENCE RM	34	
	35	REC CONFERENCE RM	20 A	1			0 VA			0 VA	1	20 A	REC CONFERENCE RM	36	
	37	PAT. RM LTG 146-152	20 A	1	0 VA									38	
	39	PAT. RM LTG 140-145	20 A	1		0 VA								40	
	41	CAN LTG CONFERENCE RM	20 A	1			0 VA							42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2CR1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR HALLWAY MED. SURGERY, CRITICAL POWER, ATS-BECRD, FED FROM PANEL BECRD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC RM 212	20 A	1	0 VA			0 VA			1	20 A	REC RM 213	2	
	3	REC RM 211	20 A	1		0 VA			0 VA		1	20 A	REC RM 214	4	
	5	REC RM 210	20 A	1			0 VA			0 VA	1	20 A	REC RM 215	6	
	7	REC RM 206	20 A	1	0 VA			0 VA			1	20 A	REC RM 216	8	
	9	REC RM 205	20 A	1		0 VA			0 VA		1	20 A	FAN COIL UNITS NE	10	
	11	REC RM 204	20 A	1			0 VA			0 VA	1	20 A	FAN COIL UNITS SE	12	
	13	REC RM 203	20 A	1	0 VA			0 VA			1	20 A	REC PAT. RMS 356, 357	14	
	15	REC RM 202	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17	REC RM 201	20 A	1			0 VA			0 VA	1	20 A	Spare	18	
	19	REC RM 359 (M3171)	20 A	1	0 VA			0 VA			1	20 A	NIGHT LTG PAT. RMS 356, 357	20	
	21	REC RM 209	20 A	1		0 VA			0 VA		1	20 A	REC PAT. RMS 356, 357	22	
	23	REC RM 208	20 A	1			0 VA							24	
	25	REC RM 207	20 A	1	0 VA									26	
	27							0 VA			1	20 A	CUBBY RM 3404	28	
	29													30	
	31	LTG AHU-9802	20 A	1	0 VA			0 VA			1	20 A	REC NURSE STATION	32	
	33							0 VA			1	20 A	REC NURSE STATION	34	
	35													36	
	37	ELEEVATOR LTG	20 A	1	0 VA			0 VA			1	20 A	ELEVATOR CONTROL	38	
	39	RM LTG EAST	20 A	1		0 VA			0 VA		1	20 A	KITCHEN	40	
	41	LTG NURSE STATION	20 A	1			0 VA							42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2CR2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
3RD FLOOR INFUSION, CRITICAL POWER, ATS-BECRD, FED FROM PANEL BECRD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RM 3305 REC	20 A	1	0 VA			0 VA			1	20 A	NURSE STATION REC - INFUSION	2	
	3	RM 3304 REC	20 A	1		0 VA			0 VA		1	20 A	RM 3146 REC	4	
	5	RM 3303 REC	20 A	1			0 VA			0 VA	1	20 A	FCU - NORTH RMS	6	
	7	RM 3302 REC	20 A	1	0 VA			0 VA			1	20 A	RM 3433 REC	8	
	9	RM 3301 REC	20 A	1		0 VA			0 VA		1	20 A	NURSE STATION REC - OVERFLOW	10	
	11	RM 3100 GFCI - DIALYSIS	20 A	1			0 VA			0 VA	1	20 A	NURSE STATION REC - OVERFLOW	12	
	13	RM 3100 GFCI - DIALYSIS	20 A	1	0 VA									14	
	15	RM 3432 REC	20 A	1		0 VA			0 VA		1	20 A	NURSE STATION REC - OVERFLOW	16	
	17	RM 3434 REC	20 A	1			0 VA			0 VA	1	20 A	NURSE STATION REC - OVERFLOW	18	
	19	RM 3435 REC	20 A	1	0 VA									20	
	21	RM 3436 REC	20 A	1		0 VA			0 VA		1	20 A	RM 3125 REC - HOUSE SUP	22	
	23													24	
	25													26	
	27	RKM 3100 GFCI - DIALYSIS	20 A	1		0 VA								28	
	29													30	
	31							0 VA			2	20 A	FIRE DAMPER	32	
	33								0 VA		--	--	--	34	--
	35	RM 3143 REC - IT CLOSET	20 A	1		0 VA								36	
	37	NURSE STATION LTG - OVERFLOW	20 A	1	0 VA			0 VA			1	20 A	PENTHOUSE A LTG	38	
	39	HEADWALL LTG	20 A	1		0 VA			0 VA		1	20 A	PENTHOUSE A REC	40	
	41	NURSE STATION LTG - INFUSION	20 A	1			0 VA							42	
				Total Load:	0 VA		0 VA		0 VA						
				Total Amps:	0 A		0 A		0 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS FROM 'ATS-0304' AFFECTED BY PLANNED OUTAGE #5. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

2 EXISTING PANELS FROM 'ATS-BECRD' AFFECTED BY PLANNED OUTAGE #6. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

JEREMY SCHUETTE NUMBER PE-2014000082
PROFESSIONAL ENGINEER
STATE OF MISSOURI
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS

ELECTRICAL EXISTING PANEL SCHEDULES

SHEET

E-017

SSC JOB# 2024379 - BID SET 07/08/25

Branch Panel: XDP

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:
BASEMENT NORTH BOILER ROOM, LIFE SAFETY BRANCH, ATS-0104, FED FROM PANEL MCP

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	FUEL LEAK ALARM	20 A	1	0 VA			0 VA			3	20 A	NBR DUAL TEMP LOOP PUMPS	2	
	3	TOTAL ALERT PANEL - MAINT SHOP	20 A	1		0 VA			0 VA		--	--	--	4	--
	5	RM B118 CABINET QUAD	20 A	1			0 VA			0 VA	--	--	--	6	--
	7	COND. PUMP - MECH EQUIP RM1	20 A	3	0 VA			0 VA			3	20 A	NBR DUAL TEMP LOOP PUMPS	8	
--	9	--	--	--		0 VA			0 VA		--	--	--	10	--
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	NBR HOT WATR CIRC PUMP LEFT	20 A	1	0 VA			0 VA			3	20 A	MECH RM 1 CIRC PUMP LEFT	14	
	15	Spare	20 A	1		0 VA			0 VA		--	--	--	16	--
	17	NBR HOT WATR CIRC PUMP RIGHT	20 A	1			0 VA			0 VA	--	--	--	18	--
	19	MECH RM 1 CIRC PMP RIGHT	20 A	3	0 VA			0 VA			1	20 A	RM B118 WALL QUAD	20	
--	21	--	--	--		0 VA			0 VA		1	20 A	RM B118 WALL QUAD	22	
--	23	--	--	--			0 VA			0 VA	1	20 A	RM B118 WALL QUAD	24	
	25	NBR COND. PUMPS	20 A	3	0 VA			0 VA			3	20 A	HEAT PUMP TOWER 3PH PWR	26	
--	27	--	--	--		0 VA			0 VA		--	--	--	28	--
--	29	--	--	--			0 VA			0 VA	--	--	--	30	--
	31	BOOSTER PUMP - MECH RM1	20 A	3	0 VA			0 VA			2	20 A	1EM1	32	
--	33	--	--	--		0 VA			0 VA		--	--	--	34	--
--	35	--	--	--			0 VA			0 VA	2	20 A	1EM1	36	
	37	NBR DUAL TEMP LOOP PMP CNTL	20 A	1	0 VA			0 VA			--	--	--	38	--
	39	HEAT PMP TOWER BOX GFI LEFT	20 A	1		0 VA			0 VA		2	20 A	1EM1	40	
	41	HEAT PMP TOWER BOX GFI RIGHT	20 A	1			0 VA			0 VA	--	--	--	42	--
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 1EM1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 150 A
MCB Rating:

Notes:
1ST FLOOR NEAR ELEVATOR A, EQUIPMENT BRANCH POWER, ATS-0104, FED FROM XDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	RM 152 HEAT PUMP	20 A	2	0 VA			0 VA			2	20 A	RM 151 HEAT PUMP	2	
--	3	--	--	--		0 VA			0 VA		--	--	--	4	--
	5	RM 150 HEAT PUMP	20 A	2			0 VA			0 VA	2	20 A	RM 149 HEAT PUMP	6	
--	7	--	--	--	0 VA			0 VA			--	--	--	8	--
	9	RM 148 HEAT PUMP	20 A	2		0 VA			0 VA		2	20 A	RM 147 HEAT PUMP	10	
--	11	--	--	--			0 VA			0 VA	--	--	--	12	--
	13	RM 146 HEAT PUMP	20 A	2	0 VA			0 VA			2	20 A	RM 145 HEAT PUMP	14	
--	15	--	--	--		0 VA			0 VA		--	--	--	16	--
	17	RM 144 HEAT PUMP	20 A	2			0 VA			0 VA	2	20 A	RM 143 HEAT PUMP	18	
--	19	--	--	--	0 VA			0 VA			--	--	--	20	--
	21	RM 142 HEAT PUMP	20 A	2		0 VA			0 VA		2	20 A	RM 141 HEAT PUMP	22	
--	23	--	--	--			0 VA			0 VA	--	--	--	24	--
	25	RM 140 HEAT PUMP	20 A	2	0 VA			0 VA			2	20 A	SLEEP LAB 130N HEAT PUMP	26	
--	27	--	--	--		0 VA			0 VA		--	--	--	28	--
	29	130 CONTROL RM SLEEP LAB	20 A	2			0 VA			0 VA	2	20 A	SLEEP LAB 130S HEAT PUMP	30	
--	31	--	--	--	0 VA			0 VA			--	--	--	32	--
	33	PROD. LINE DIRECTOR HEAT PUMP	20 A	2		0 VA			0 VA		2	20 A	ENTRY RM 130 SLEEP LAB	34	
--	35	--	--	--			0 VA			0 VA	--	--	--	36	--
	37	FIRE ALARM PANEL	20 A	1	0 VA			0 VA			1	20 A	Spare	38	
	39	Spare	20 A	2		0 VA			0 VA		2	20 A	VISITOR LOUNGE HEAT PUMP	40	
--	41	--	--	--			0 VA			0 VA	--	--	--	42	--
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: EP5

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 50 A
MCB Rating:

Notes:
ROOF CENTERPENTHOUSE, EQUIPMENT BRANCH POWER, ATS-0104, FED FROM XDP (NORTH BOILER ROOM)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LIGHT ELEVATOR RM	20 A	1	0 VA			0 VA			1	20 A	LIGHT MECHANICS RM	2	
	3	CAB LIGHTS	20 A	1		0 VA			0 VA		1	20 A	LTG & REC ELEVATOR PIT	4	
	5	F.A. SHUNT BRKR & SPRKL SOL.	20 A	1			0 VA			0 VA	1	20 A	ELEVATOR SUMP PUMP	6	
	7	EF - ELEVATOR RM	20 A	1	0 VA			0 VA			1	20 A	REC MECHANICS RM	8	
	9	MODULAR BUILDING CONTROLLER	20 A	1		0 VA			0 VA		2	20 A	MECHANICS RM MINI SPLIT	10	
	11	Spare	20 A	1			0 VA			0 VA	--	--	--	12	--
				Total Load:	0 VA			0 VA							
				Total Amps:	0 A			0 A							

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: AMBULANCE

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
BASEMENT, LIFE SAFETY POWER, ATS-BELSD, FED FROM PANEL BELSD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	REC BOARD	20 A	1	0 VA			0 VA			1	20 A	Spare	2	
	3	REC BOARD	20 A	1		0 VA			0 VA		1	20 A	Spare	4	
	5	REC COLUMN 15&16	20 A	1			0 VA			0 VA	1	20 A	REC 2ND FL OUTSIDE	6	
	7	BOILER SP	20 A	1	0 VA			0 VA			1	20 A	REC 2ND FL OUTSIDE	8	
	9	BOILER SP	20 A	1		0 VA			0 VA		1	20 A	REC TRASH	10	
	11	BOILER SP	20 A	1			0 VA			0 VA	1	20 A	PARKING LTG EAST	12	
	13	PARKING LTG NORTH	20 A	1	0 VA			0 VA			3	60 A	3P-60 TRASH COMPACTOR	14	
	15	TEMP WELDER	20 A	2		0 VA			0 VA		--	--	--	16	--
--	17	--	--	--			0 VA			0 VA	--	--	--	18	--
	19							0 VA			3	20 A	TEMP HEAT	20	
	21								0 VA		--	--	--	22	--
	23									0 VA	--	--	--	24	--
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: BLS2

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
BASEMENT NORTH BOILER ROOM, LIFE SAFETY BRANCH, ATS-BELSD, FED FROM PANEL BELSD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	1ST FLOOR EM LTG	20 A	1	0 VA			0 VA			1	20 A	Spare	2	
	3	1ST FLOOR EM LTG	20 A	1		0 VA			0 VA		1	20 A	FIRE ALARM EXT. PANEL (OLD)	4	
	5	EM WALL PACK ABOVE PANEL	20 A	1			0 VA			0 VA	1	20 A	FIRE ALARM MAIN PANEL (NEW)	6	
	7	LTG STAIR E	20 A	1	0 VA			0 VA			1	20 A	Spare	8	
	9	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	10	
	11	Spare	20 A	1			0 VA			0 VA	1	20 A	Spare	12	
	13	MORGUE COOLER - CONDENSER	20 A	1	0 VA			0 VA			1	20 A	Spare	14	
	15	Spare	20 A	1		0 VA			0 VA		1	20 A	Spare	16	
	17	MORGUE COOLER - DOOR HEAT	20 A	1			0 VA			0 VA	1	20 A	BASEMENT HALL LTG	18	
	19	MORGUE COOLER - EVAP. FAN	20 A	1	0 VA			0 VA			1	20 A	BOILER RM LTG	20	
	21								0 VA		1	20 A	BASEMENT HALL LTG	22	
	23									0 VA	1	20 A	BOILER BURNER	24	
	25							0 VA			1	20 A	STAIR C LTG	26	
	27													28	
	29													30	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

Branch Panel: 2LS1

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating:

Notes:
3RD FLOOR HALLWAY MED. SURGERY, LIFE SAFETY POWER, ATS-BELSD, FED FROM PANEL BELSD (MICROBIOLOGY)

CKT NOTES	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	CKT NOTES
	1	LTG OB, OB WONDERGUARD &...	20 A	1	0 VA			0 VA			1	20 A	FIRE ALARM	2	
	3	LTG HALL	20 A	1		0 VA			0 VA		1	20 A	NURSE CALL CLOSET 3150	4	
	5	LTG PEDS	20 A	1			0 VA							6	
	7	PATHOLOGY NIGHT & EXIT LIGHTS	20 A	1	0 VA									8	
	9	IT 3143 UPS POWER	20 A	2		0 VA								10	
--	11	--	--	--			0 VA							12	
	13													14	
	15													16	
	17													18	
	19													20	
	21													22	
	23													24	
	25													26	
	27													28	
	29													30	
	31													32	
	33													34	
	35													36	
	37													38	
	39													40	
	41													42	
				Total Load:	0 VA			0 VA		0 VA					
				Total Amps:	0 A			0 A		0 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 0 VA
				Total Est. Demand: 0 VA
				Total Conn. Current: 0 A
				Total Est. Demand Current: 0 A

Notes:

ELECTRICAL PANEL SCHEDULE GENERAL NOTES:

1. VERIFY AND COORDINATE ALL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT INCLUDING BREAKER AND FEEDER SIZES WITH APPLICABLE TRADES PRIOR TO ORDERING.
2. AIC RATINGS INDICATED ARE THE MINIMUM PERMISSIBLE TO MAINTAIN A FULLY RATED SYSTEM.
3. PROVIDE FINAL, ACCURATE PANEL SCHEDULES IN EACH PANEL AND SCHEDULES WITH AS BUILT DOCUMENTATION.

ELECTRICAL KEYED NOTES

1 EXISTING PANELS FROM 'ATS-BELSD' AFFECTED BY PLANNED OUTAGE #6. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

2 EXISTING PANELS FROM 'ATS-0104' AFFECTED BY PLANNED OUTAGE #6. EC TO VERIFY ALL LOADS AND COORDINATE WITH FACILITY 14 DAYS PRIOR TO AN OUTAGE. REFER TO OUTAGE COORDINATION SCHEDULE FOR MORE INFORMATION.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

JEREMY SCHLIETTE NUMBER PE-2014000082
PROFESSIONAL ENGINEER
STATE OF MISSOURI
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO. CP252301
DATE 07/08/25
DRAWN BY SSC
CHECKED BY JMS

SHEET CONTENTS
ELECTRICAL EXISTING PANEL SCHEDULES

SHEET
E-018

SSC JOB# 2024379 - BID SET 07/08/25

CP252301 **Outage Coordination Schedule for New Switchgear Installation and Electrical Room Construction**
7/8/2025

CAPITOL REGION MEDICAL CENTER				Equipment Location	Areas Affected	Schedule Loc.	Maximum Outage Duration	Outage Time/Season	REMARKS
PHASE 1 **(Install temporary generator / loadbank connection cabinet)**	**Planned Outage #1 - Emergency Branch Outage at 750kW Generator**	1	Distribution Panelboard EMDP-R	Generator Rm SE205A	N/A		2 HOURS		**EMRGENCY POWER OUTAGE ONLY. ATS's downstream of equipment to be on normal power. No outages are anticipated; interruption of power to hospital will occur only upon failure of normal power.**
		2	Distribution Panelboard EMDP-R2						
		3	Distribution Panelboard EDP-B						
		4	Distribution Panelboard BEDP						
PHASE 2			N/A						
PHASE 3 **(Relocate ATS-REM1)**	**Planned Outage #2 - ATS REM1 Outage**	1	ATS-REM1 (**EQUIPMENT BRANCH POWER**)	Generator Rm SE205A	All 98XX AHU's except lab.		2 HOURS	Fall/Winter/ Spring	**NORMAL POWER & EMERGENCY POWER OUTAGE. REM1 & REM2 loads unavailable.**
			a. Panel REM1 (277/480V, 400A)	Mech Rm 9 - Penthouse		E-007			
			i) Penthouse 277V/480V Mechanical Loads						
			b. Panel REM2 (120/208V, 225A)	Mech Rm 9 - Penthouse		E-007			
			i) Penthouse 120V/208V Mechanical Loads						
PHASE 4 **(Install new SWBD-6, refeed SWBD-6A and install new ATS)**	**Planned Outage #3 - SWBD-6 Outage**	1	SWBD-6 (277/480V, 3000A)	Generator Rm SE205A			48 HOURS		**NORMAL POWER OUTAGE (ONLY EMERGENCY POWER IS AVAILABLE).** **ATS-REM1, ATS-EDP-D, ATS-BELSD, ATS-BECRD, ATS-FIRE PUMP, ATS-EQ2, ATS-0104, ATS-0203, ATS-0204, ATS-0302, and ATS-0304 will be switched to emergency feed and their respective loads will be available throughout the outage.**
			a. Panel HN1A (277/480V, 200A)	2nd Fl ER Closet - Rm 2122	Gift Shop, ER, Corridor				
			b. Panel LN1A (120/208V, 200A)	2nd Fl ER Closet - Rm 2122	Pharmacy, ER, Staging				
			c. Panel HN1B (277/480V, 200A)	2nd Fl Radiology Rm 222	Imaging, Endoscopy				
			d. Panel LN1B (120/208V, 200A)	2nd Fl Radiology Rm 222	Imaging, Nuc. Med., Cath.	E-008			
			e. Panel LN1BE (120/208V, 200A)	2nd Fl Radiology Rm 222	Reading Rm, CT, X-Ray				
			f. Panel HN1C (277/480V, 200A)	Business Rm 015	Gift Shop, Corr., Parking				
			g. Panel LN1C (120/208V, 200A)	Business Rm 015	Reception, Library, Parking				
			h. Panel HN1D (277/480V, 200A)	Surgery Hall 136	Accounting, Cath Lab				
			i. Panel LN1D (120/208V, 200A)	Surgery Hall 136	Accnting, Inpatient Recov.	E-009			
			j. Panel RDP (277/480V, 600A)	Radiology Rm 222	Cath Lab, CT, Tomography				
			k. Panel RM 1A (277/480V, 225A)	North Boiler Room B126	Laundry	E-010			
			i) Water Heater 12kW Laundry Rm						
			ii) Ceiling Heater 7.5kW Laundry Rm						
			iii) Ceiling Heater 7.5kW Rm B114						
			l. Panel NDP (277/480V, 225A)	Generator Rm SE205A	Mechanical Loads				
			i) Main Lobby AHU						
			ii) Basement EF-1						
			iii) 150 Ton Marley Cooling Tower						
			iv) Lighting - South Lot						
			v) BFP-Boiler-6						
			vi) 225 Ton Chiller						
			m. Panel DPA (120/208V, 800A)	Mech Rm 9 - Penthouse	Mechanical Loads	N/A**			
			i) Panel A (120/208V)	Penthouse A	Mechanical Loads	E-009			
			n. Panel DP-Helipad			N/A**			
			o. PUMPS-1,2,3						
			p. CHILLER 200 TON TRANE						
			q. VSD-4,5,6						
		2	Distribution Panel-MCP (120/208V, 2000A)	North Boiler Room B126					**NORMAL POWER OUTAGE (ONLY EMERGENCY POWER IS AVAILABLE).** **Fed from SWBD-6**
			a. Chiller						
			b. Panel KP1&KP2 (120/208V, 400A)	2nd Fl Kitchen	Kitchen	E-009			
			c. Panel MP (120/208V, 400A)			N/A**			
		3	Distribution Panel-PDP (120/208V, 800A)	North Boiler Room B126					**NORMAL POWER OUTAGE (ONLY EMERGENCY POWER IS AVAILABLE).** **Fed from SWBD-MCP**
			a. Panel 1P1 (120/208V, 225A)	1st Fl near Elev A	IT, Sleep Lab, Conf. Rm	E-009			
			b. Panel LP1 (120/208V, 150A)	2nd Fl OB	Nursery, C-Section				
			c. Panel 2P1 (120/208V, 150A)	3rd Fl Med. Surgery	Rms 200-216, Clean Util.	E-010			
			d. Panel 2P2 (120/208V, 150A)	3rd Fl Infusion	Rms 33XX, 34XX, Dialysis				
			e. East Elevator 'A'						
			f. New' Booster Pump						
			g. Carrier Tower Fan & Pump						
			h. Laundry Rm Dryer						
		4	Distribution Panel-LDP (120/208V, 800A)	North Boiler Room B126					**NORMAL POWER OUTAGE (ONLY EMERGENCY POWER IS AVAILABLE).** **Fed from SWBD-MCP**
			a. Panel BP1 (120/208V, 100A)	North Boiler Room B126	Boiler Rm, Morgue, Ext.				
			b. Panel 1L1 (120/208V, 100A)	1st Fl near Elev A	IT Rm, Corr., Rms 149-152				
			c. Panel LL1 (120/208V, 100A)	2nd Fl OB	Corr., Rms 515-520	E-010			
			d. Panel 2L1 (120/208V, 100A)	3rd Fl Med. Surgery	Rms 200-216, Corr.				
			e. Panel 2L2 (120/208V, 100A)	3rd Fl Infusion	Rms 33XX, 34XX				
			f. Panel C1&C2 (120/208V, 200A)			E-011			
			g. Panel LNBM (120/208V, 200A)			N/A**			

CAPITOL REGION MEDICAL CENTER				Equipment Location	Areas Affected	Schedule Loc.	Maximum Outage Duration	Outage Time/Season	REMARKS
PHASE 4 Cont. **(Install new SWBD-6, refeed SWBD-6A and install new ATS)**	**Planned Outage #4 - SWBD-6A Outage**	1	SWBD-6A (277/480V, 3000A)	Elec Rm SE206A			8 HOURS		**NORMAL POWER OUTAGE (ONLY EMERGENCY POWER IS AVAILABLE).** **Fed from SWBD-6A**
			a. Panel BM1 (277/480V, 400A)	Mech Rm SE205		E-011			
			b. Panel RM1 (277/480V, 400A)	Mech Rm 9 - Penthouse	Mechanical Loads	E-013			
			c. 500 TON TRANE						
			d. 320 TON TRANE						
			e. 225 TON YORK						
			f. 100 TON TRANE						
		2	SWBD-7 (120/208V, 1200A)	Mech Rm SE205					
			a. Panel BP1 (120/208V, 150A)	North Boiler Room B126	Morgue, Mech Loads	E-014			
			b. Panel BP2 (120/208V, 150A)	C085		E-011			
			c. Panel BL1 (120/208V, 225A)	Medical Records SE203	Basement Ltg				
			d. Panel D (120/208V, 60A)	Mech Rm SE205	Mechanical Loads	E-014			
			e. Panel E (120/208V, 20A)	Mech Rm 9 - Penthouse	Ltg, AHU Cntls, EF's				
			f. Panel G (120/208V, 30A)	Soiled Linen B154	Ltg, Recs, CPU				
			g. Panel H (120/208V, 40A)			N/A**			
			h. Panel 1L2 (120/208V, 100A)	1st Fl Gym Area	PT/OT Ltg, Speech Ther.				
			i. Panel 1L3 (120/208V, 100A)	1st Fl South Addition	Rms 110-127 Ltg, Dining				
			j. Panel 1P2 (120/208V, 225A)	1st Fl Gym Area	Gym, OT, PT, ADL	E-012			
			k. Panel 1P3 (120/208V, 150A)	1st Fl South Addition	Rms 110-127, RR's, Lounge				
			l. Panel LL2 (120/208V, 100A)	2nd Fl ICU	Ext. Ltg, L5XX Ltg				
			m. Panel LP2 (120/208V, 150A)	2nd Fl ICU	Rms L5XX power				
			n. Panel LP3 (120/208V, 100A)			E-011			
			o. Panel 2L3 (120/208V, 100A)	3rd Fl South	Ltg Rms 3rd Fl South	E-012			
			p. Panel 2P3 (120/208V, 150A)	3rd Fl South	Rms 250-264, Nurse, EF's				
			q. Panel 2L4 (120/208V, 100A)	3rd Fl West Hallway	3rd Floor Ltg				
			r. Panel 2P4 (120/208V, 150A)	3rd Fl West Hallway	Rms 270-278, Util., Nurs.				
			s. Panel 2L5 (120/208V, 100A)	3rd Fl West Rm 3222	Ltg Rms 376,378,3226,Gym	E-013			
			t. Panel 2P5 (120/208V, 150A)	3rd Fl West Rm 3222	Cardio Kitch., Recs Rms 362X				
			u. Panel 2P5-B (120/208V, 100A)	3rd Fl West Rm 3222	Gym, Dining Oven, Wsh.&Dry.				
			v. Panel 1LP1 (120/240V, 60A)			E-011			
			w. Panel DP-1 (120/208V, 400A)	Roof Center Penthouse		N/A**			
			x. Panel J (120/208V, 100A)			E-011			
			y. Panel L (120/208V, 100A)	3rd Fl Lab	Break Rm, Chem., Fridges	E-013			
		3	SWBD-8 (120/208V, 1200A)	Elec Rm SE206A					**NORMAL POWER OUTAGE (ONLY EMERGENCY POWER IS AVAILABLE).** **Fed from SWBD-6A**
			a. Panel DPB (120/208V, 600A)	Mechanical Rm		N/A**			
			i) LGB-LIB						
			ii) LBA-LIC						
			iii) Pump Tube Station						
			iv) EF-5						
			v) Welder for Central Plumbing						
			vi) AHU-1						
			b. Panel LBA (120/208V, 200A)	IT Server Rm	IT Server Rm	E-011			
			c. Panel LGB (120/208V, 200A)		President's Office	N/A**			
			d. Panel L1B (120/208V, 200A)	2nd Fl Nuc. Med. Hallway	Nuclear Medicine	E-014			
			e. CH-2 (ACU-05-01 90 Ton)						

CAPITOL REGION MEDICAL CENTER				Equipment Location	Areas Affected	Schedule Loc.	Maximum Outage Duration	Outage Time/Season	REMARKS
PHASE 4 Cont. **(Install new SWBD-6, refeed SWBD-6A and install new ATS)**	**Planned Outage #5 - ATS 0203, ATS-0204, ATS-0302, and ATS-0304 Branch Outages**	1	ATS-0203* (**LIFE SAFETY BRANCH POWER**)				1 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.** **Lights, pharmacy, med rec, 3 south**
			a. Panel EB-LS (120/208V, 225A)	Elec Rm SE206A		E-015			
			i) Emergency Ltg SE206A						
			Panel E1B (120/208V, 100A)	2nd Fl Nuc. Med. Hallway	Nuclear Medicine	E-014			
			b. Panel EBB (120/208V, 100A)	Elec Rm SE206A					
			i) Emergency Ltg Generator Rm						
			ii) Emergency Ltg stairs						
			iii) Pump for New Tower						
			iv) Fuel Oil Pumps						
			v) Generator Exhaust Fan Damper						
			c. Panel BLS1 (120/208V, 100A)	Medical Records SE203	Pharmacy, Med. Rec., Hall	E-014			
			d. Panel 2LS2 (120/208V, 100A)	3rd Floor South	Ltg, Door Holders				
		2	ATS-0204* (**CRITICAL BRANCH POWER**)				1 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.** **Feeds Panels 1CR2, LCR2, EC1B, ECGC, 2CR3, 2CR4, 2CR5, EMGB, & BCR1**
			a. Panel EB-CRIT (120/208V, 400A)	Elec Rm SE206A					
			b. Panel 1CR2 (120/208V, 100A)	1st Floor South Add.	Rms 110-127, Nurs., Med Gas				
			c. Panel LCR2A (120/208V, 150A)	2nd Fl ICU	ICU	E-015			
			d. Panel EC1B (120/208V, 80A)	2nd Fl HSK-Closet 2409	Nuclear Medicine				
			e. Panel ECGC (120/208V, 80A)			N/A**			
			f. Panel 2CR3 (120/208V, 100A)	3rd Floor South	Rms 250-264, Nurs., Med Gas				
			g. Panel 2CR4 (120/208V, 100A)	3rd Fl West Hallway	Rehabilitation, Rms 271-278	E-015			
			h. Panel 2CR5 (120/208V, 150A)	3rd Fl West Rm 3222	Rehabilitation, Rms 376-385				
			i. Panel EMGB (120/208V)	1st Fl Admin Office 1241	Pharmacy, Mech Loads				
			j. Panel BCR1 (120/208V, 100A)			N/A**			
		3	ATS-0302* (**CRITICAL BRANCH POWER**)				1 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.**
			a. Panel EDP-C (277/480V, 600A)	Generator Room		N/A**			
			i) IT Cooling Unit 2						
			ii) Medical Air Pump 'A' & 'B'	Super Penthouse					
			iii) Cath Lab	2nd Floor Rm 2004					
			iv) Kitchen Hall Power	Kitchen					
			v) ER X-Ray	ER					
			vi) Vacuum Pump Super Penthouse	Super Penthouse					
			b. Panel HE1A (277/480V, 200A)	2nd Fl ER Closet - Rm 2122	ER, Ambulance Gar., Helipad				
			c. Panel LE1A (120/208V, 225A)	2nd Fl ER Closet - Rm 2122	Cardiac, Trauma, ER, Staging				
			d. Panel LE1C (120/208V, 225A)	2nd Fl OB	Data Clos., OB Waiting, Triage	E-016			
			e. Panel HE1D (277/480V, 200A)	2nd Fl CCL Hallway	O.R., Recovery, Lysto				
			f. Panel LE1D (120/208V, 225A)	2nd Fl CCL Hallway	O.R., Recovery, Lysto				
			g. Panel ECG (120/208V, 225A)	2nd Floor		N/A**			
			h. Panel ECDPA (120/208V, 200A)	Penthouse A		N/A**			
			i. Panel LAZER (120/208V, 125A)	2nd Fl CCL Hallway	O.R., Procedure, Cath Lab	E-016			
			j. Panel EP3 (120/208V, 200A)	3rd Fl Lab	Lab Power, Registration				
		4	ATS-0304* (**LIFE SAFETY BRANCH POWER**)				1 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.**
			a. Panel HS1A (277/480V, 125A)	2nd Floor ER Closet	Corr. Ltg, CDU Ltg	E-017			
			b. Panel LS1A (120/208V, 100A)	2nd Floor ER Closet	Pharm., CDU, MRI FA Sys.				
			*Only ONE ATS shall be taken out of service at any given time for replacement. Contractor to verify all affected loads and communicate with owner **14 days prior** to planned outage.						

CAPITOL REGION MEDICAL CENTER				Equipment Location	Areas Affected	Schedule Loc.	Maximum Outage Duration	Outage Time/Season	REMARKS
PHASE 4 Cont. **(Install new SWBD-6, refeed SWBD-6A and install new ATS)**	**Planned Outage #6 - ATS BELSD, ATS-BECRD, and ATS-0104 Branch Outages**	1	ATS-BELSD* (**LIFE SAFETY BRANCH POWER**)	B122A - Microbiology			3 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.** **Life Safety Branch**
			a. Panel BELSD (120/208V, 225A)	B122A - Microbiology					
			i) Maintenance Shop BAS Receptacles						
			ii) IT Rack - Copy Room						
			iii) Exterior ltg						
			iv) Microbiology lab emergency power						
			b. Panel BLS2 (120/208V, 100A)	North Boiler Room B126					
			c. Panel AMBULANCE GARAGE (120/208V, 100A)			E-018			
			d. Panel 2LS1 (120/208V, 100A)		Med. Surgery				
		2	ATS-BECRD* (**CRITICAL BRANCH POWER**)	B122A - Microbiology			3 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.** **Life Safety Branch**
			a. Panel BECRD (120/208V, 400A)	B122A - Microbiology					
			i) IT UPS-A						
			b. Panels K1&K2 (120/208V, 100A)						
			c. Panel 1CR1 (120/208V, 150A)	1st Fl Central	IT Area				
			d. Panel LCR1 (120/208V, 150A)		OB	E-017			
			e. Panel 2CR1 (120/208V, 150A)		Med. Surgery				
			f. Panel 2CR2 (120/208V, 150A)		Infusion				
		3	ATS-0104* (**EQUIPMENT BRANCH POWER**)	North Boiler Room B126			1 HOURS		**NORMAL & EMERGENCY POWER OUTAGE.** **Equipment Branch**
			a. Panel XDP (120/208V, 225A)	North Boiler Room B126					
			i) Fuel Leak Alarm						
			ii) Total Alert Panel - Maintenance Shop						
			iii) Condensate Pumps - Mech Equipment Rm 1 & NBR						
			iv) Recirculation Pumps - Mech Equipment Rm 1 & NBR						
			v) Booster Pumps - Mech Equipment Rm 1						
			vi) Dual Temp Loop Pumps - NBR						
			vii) Heat Pump Tower						
			viii) Rm B118 Emergency Receptacles						
			b. Panel 1EM1 (120/208V, 150A)	1st Floor Central	IT Area	E-018			
			c. Panel EP5 (120/208V, 50A)	Center Penthouse	Mechanical Loads				
			d. ELEV B						**175A Fusible Disconnect in Center Penthouse**
			*Only ONE ATS shall be taken out of service at any given time for replacement. Contractor to verify all affected loads and communicate with owner **14 days prior** to planned outage. **Panel not scheduled. Locate panel and verify loads prior to outage. Coordinate with facility.						
		NOTE 1	This sequence can be completed with all equipment in an electrically safe condition. Contractor is required to use the Owner's hot work and utility outage permit requirements per Owner's Healthcare Construction Safety Requirements document.						
		NOTE 2	Contractor shall verify all loads affected by proposed outages and communicate with the facility **14 days prior** to an outage.						
		NOTE 3	Contractor shall provide temporary wiring methods and/or temporary lighting to loads/areas as identified by the facility to provide continuous power to such loads during proposed outage(s).						

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHLITTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS
ELECTRICAL OUTAGE SCHEDULE COORDINATION

SHEET
E-019

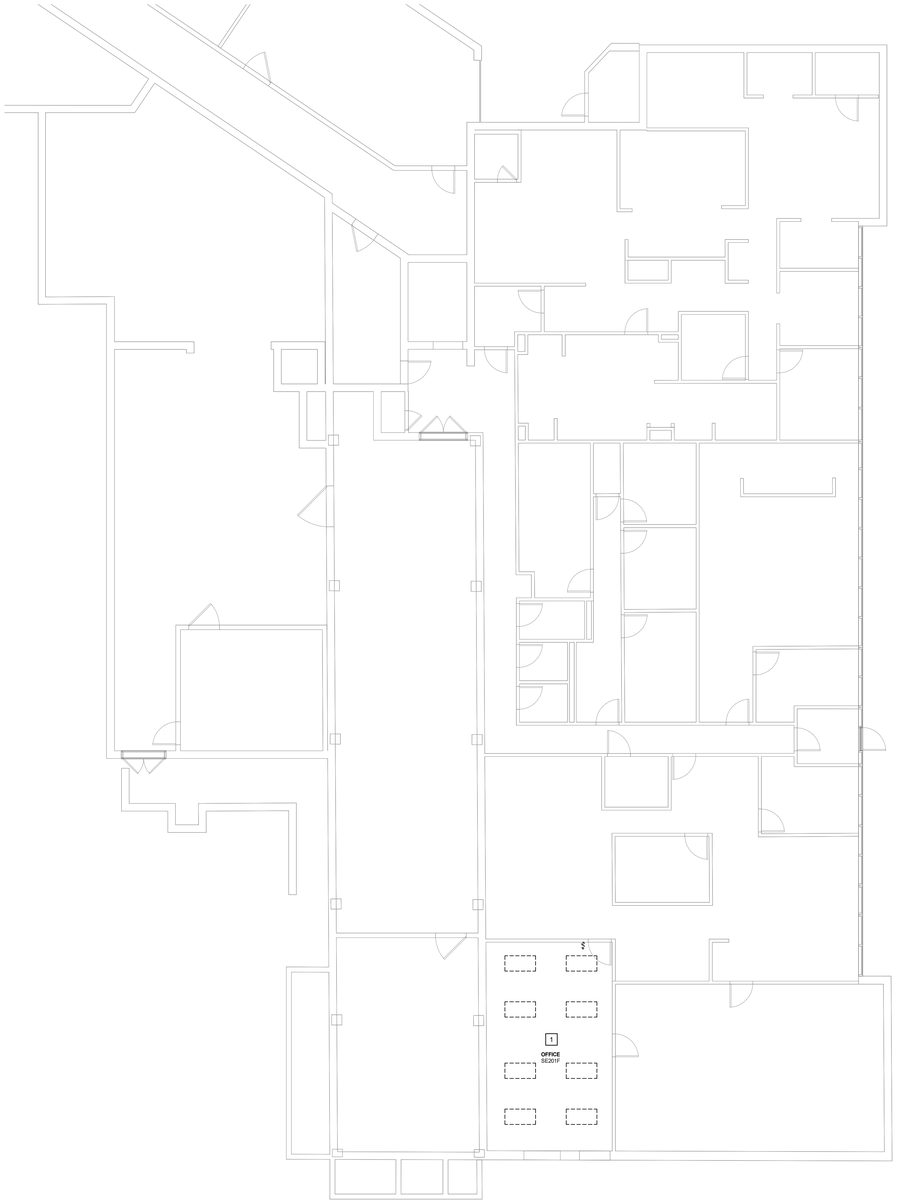
SSC JOB# 2024379 - BID SET 07/08/25

ELECTRICAL DEMOLITION GENERAL NOTES:

1. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES INCLUDING GENERAL DEMOLITION NOTES.
2. EXISTING FIXTURES & DEVICES TO REMAIN ARE INDICATED WITH THIN SOLID LINES; DARK DASHED LINES INDICATE FIXTURES/DEVICES THAT ARE INTENDED TO BE DEMOLISHED.
3. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL KEYED NOTES:

1 DEMO LIGHT FIXTURES AND SWITCHING. MAINTAIN CIRCUIT FOR RECONNECTION IN RENOVATION.



1 NORTH

ELECTRICAL BASEMENT LIGHTING PLAN - DEMO
SCALE: 1/8" = 1'-0"

one-eighth inch = one foot
0 4 8 16

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of BJC Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS

ELECTRICAL BASEMENT LIGHTING PLAN - DEMO

SHEET

ED-101

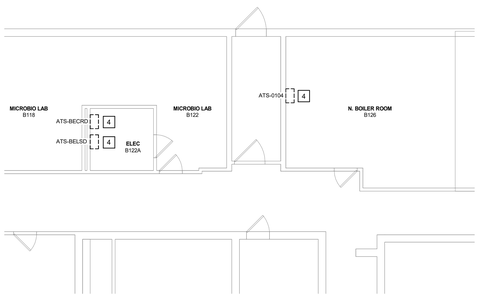
SSC JOB# 2024379 - BID SET 07/08/25

ELECTRICAL DEMOLITION GENERAL NOTES:

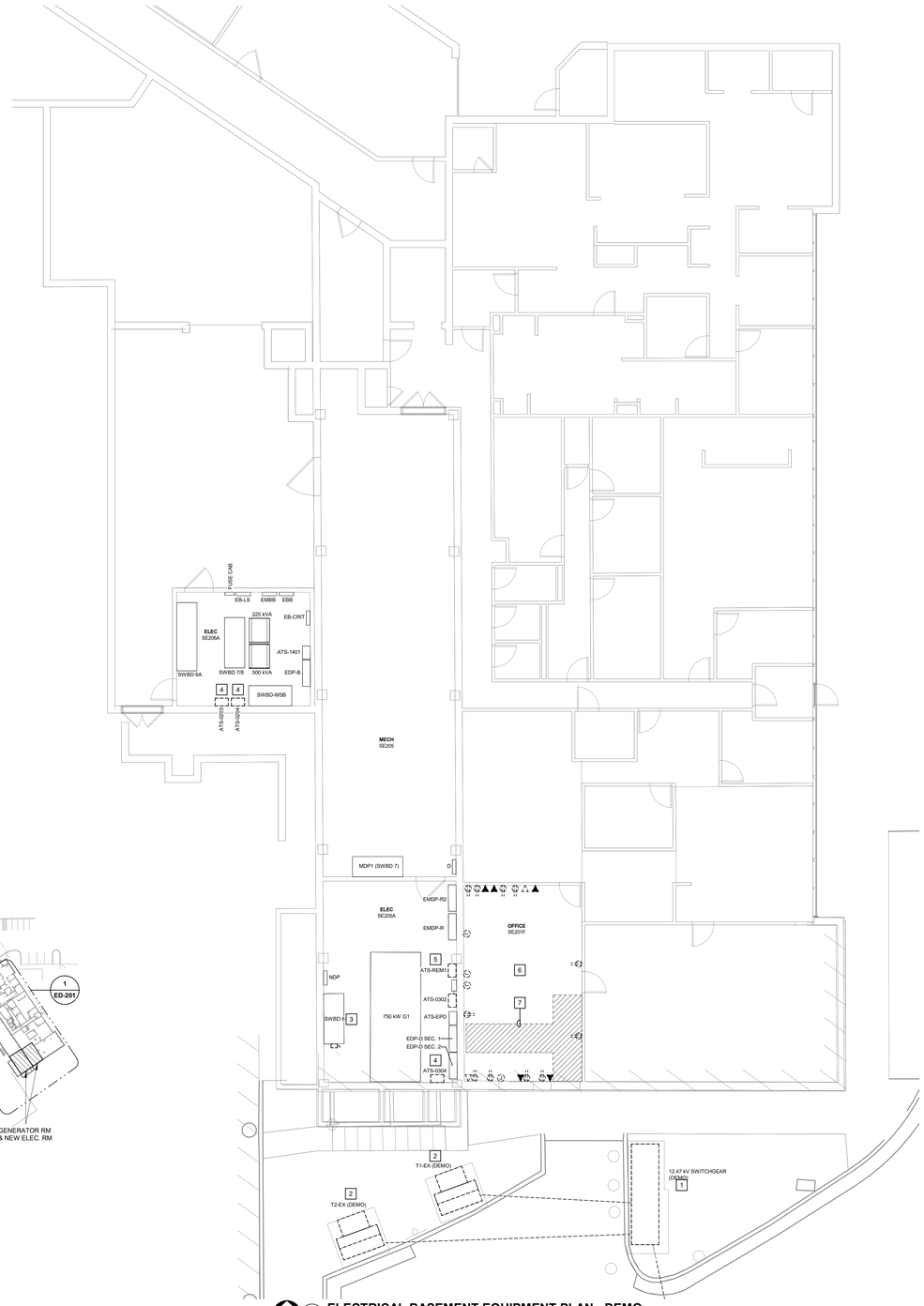
1. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES INCLUDING GENERAL DEMOLITION NOTES.
2. EXISTING FIXTURES & DEVICES TO REMAIN ARE INDICATED WITH THIN SOLID LINES; DARK DASHED LINES INDICATE FIXTURES/DEVICES THAT ARE INTENDED TO BE DEMOLISHED.
3. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
4. INFORMATION ON THIS SHEET IS COMPILED FROM EXISTING DRAWINGS AND CASUAL FIELD OBSERVATIONS AND SHALL BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF ALL EQUIPMENT AND DEVICES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND DEVICES PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES EXIST.

ELECTRICAL KEYED NOTES:

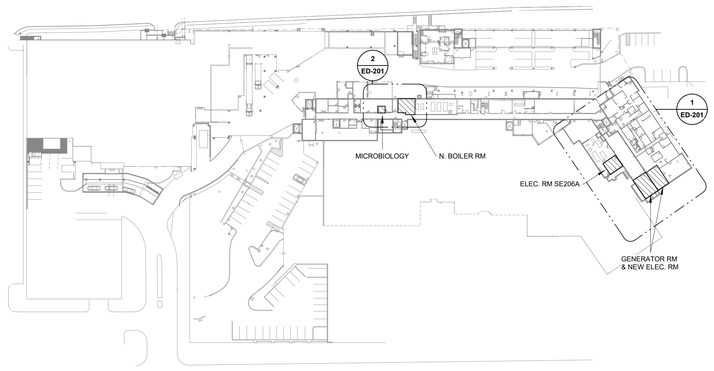
1. DEMO 12.47KV SWITCHGEAR REFER TO ONE-LINE DIAGRAM SHEET E-002 AND PHASING SCHEDULE.
2. DEMO PAD MOUNTED TRANSFORMER. MAINTAIN EXISTING CONCRETE PAD FOR REUSE IN RENOVATION. REFER TO ONE-LINE DIAGRAM SHEET E-002 AND PHASING SCHEDULE.
3. DEMO SWBD 6 REFER TO ONE-LINE DIAGRAM SHEET E-002 AND PHASING SCHEDULE.
4. DEMO ATS REFER TO ONE-LINE DIAGRAM SHEET E-002 AND PHASING SCHEDULE.
5. TEMPORARILY DISCONNECT ATS AND RELOCATE TO NEW ELECTRICAL ROOM REFER TO ONE-LINE DIAGRAM SHEET E-002 AND PHASING SCHEDULE.
6. FOR ALL WIRING DEVICES NOTED TO BE DEMOLISHED IN THIS SPACE, DEMOLISH WIRING DEVICE AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
7. AREA OF FLOOR SLAB TO BE DEMOLISHED FOR INSTALLATION OF CONDUCTORS. REFER TO RENOVATION ONE-LINE DIAGRAM SHEET E-003. FLOOR SLAB TO BE REPAIRED AT COMPLETION OF CONDUIT INSTALLATION REFER TO ARCHITECTURAL SHEETS AD-101 AND A-051.1.



2 **ELECTRICAL N. BOILER RM & MICROBIO EQUIPMENT PLAN - DEMO**
SCALE: 1/8" = 1'-0"
NORTH



1 **ELECTRICAL BASEMENT EQUIPMENT PLAN - DEMO**
SCALE: 1/8" = 1'-0"
NORTH



KEY PLAN
NOT TO SCALE

one-eighth inch = one foot
0 4 8 16

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS

ELECTRICAL BASEMENT EQUIPMENT PLAN - DEMO

SHEET

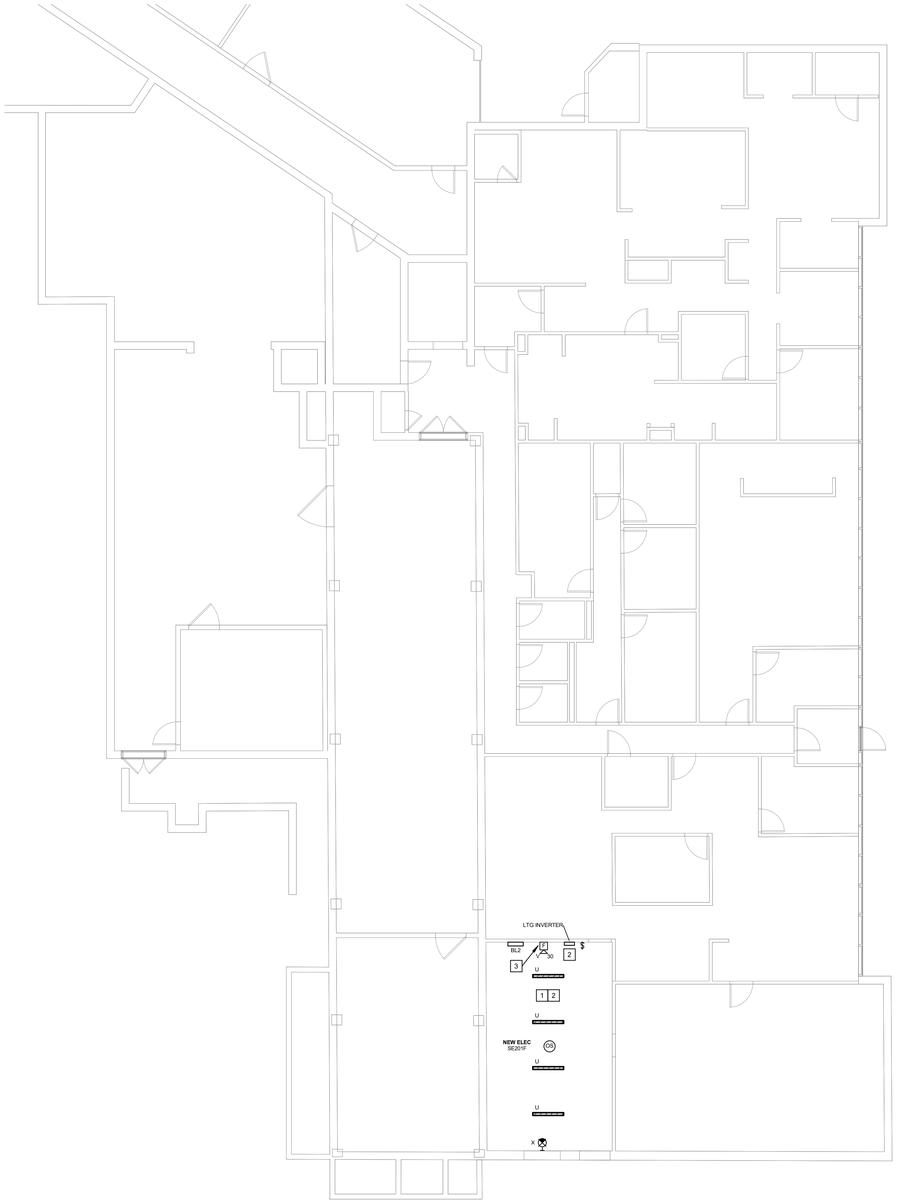
ED-201

SSC JOB# 2024379 - BID SET 07/08/25

LIGHTING FIXTURE SCHEDULE

Type Mark	Manufacturer	Catalog No.	Voltage	Mounting	Lamp	Fixture Finish	Remarks (Type)	Description
U	METALUX	4SLSTP4040DD-UNV-AYC	120-277V	SUSPENDED	39W, LED, 4000K	WHITE	4' LED STRIP LIGHT	5210 DELIVERED LUMENS, WITH AYC 36" HANGING CHAIN FOR SUPSENDED MOUNTING.
X	LITHONIA	LQM S W R MVOLT	120-277V	UNIVERSAL	1W, LED	WHITE	EXIT SIGN	UNIVERSIAL MOUNT, THERMOPLASTIC EXIT SIGN WITH RED LETTERING AND EMERGENCY BATTERY PACK WITH SELF-DIAGNOSTICS; ARROWS AND FACES PER PLANS. ORDER WITH ALL NECESSARY MOUNTING ACCESSORIES.

LIGHTING SCHEDULE NOTES:
1. MANUFACTURER(S) LISTED ONLY FOR TYPICAL REQUIREMENTS AND FIXTURE TYPES. EQUAL FIXTURES FROM METALUX, LITHONIA, HE WILLIAMS, OR OTHERS WITH EQUAL QUALITIES AND SPECIFICATIONS WILL BE CONSIDERED AS EQUAL.



1 **ELECTRICAL BASEMENT LIGHTING PLAN - RENO**
SCALE: 1/8" = 1'-0"
NORTH

one-eighth inch = one foot
0 4 8 16

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR LIGHTING CONTROL SCHEMATIC.
3. REFER TO THE ELECTRICAL DETAILS SHEET(S) FOR SEISMIC SUPPORTS OF LIGHTING FIXTURES.
4. SUSPENDED CEILING SYSTEMS ARE DESIGNED TO SUPPORT THE WEIGHT OF ALL LIGHTING FIXTURES. THE STRUCTURAL FRAMING SHALL SUPPORT ALL CONDUITS, JUNCTION BOXES, ETC ABOVE CEILINGS.
5. EMERGENCY LIGHTING SHALL BE SWITCHED AND NOT BE USED AS A NIGHT LIGHT. CONNECT EMERGENCY BALLAST VOLTAGE SENSING LEADS AHEAD OF SWITCH LEG OR OTHER CONTROL DEVICE.

ELECTRICAL KEYED NOTES:

1 EXTEND EXISTING LIGHTING CIRCUIT TO NEW LIGHT FIXTURES.

2 NEW FIXTURES IN THIS SPACE TO BE WIRED TO NEW EMERGENCY LIGHTING INVERTER. INVERTER TO BE BODINE #ELI-S-250 OR EQUIVALENT. REFER TO WIRING DIAGRAM 7/E-006.

3 INSTALL NEW FIRE ALARM NOTIFICATION DEVICE AS INDICATED. EXTEND EXISTING FIRE ALARM WIRING IN AREA TO NEW DEVICE.

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lifelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

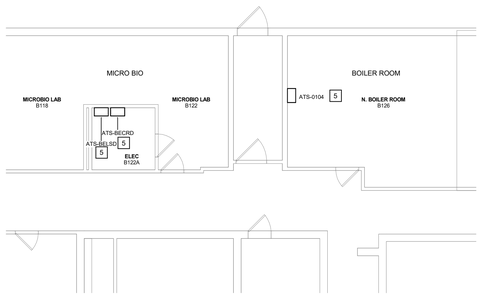
SHEET CONTENTS

ELECTRICAL BASEMENT LIGHTING PLAN - RENO

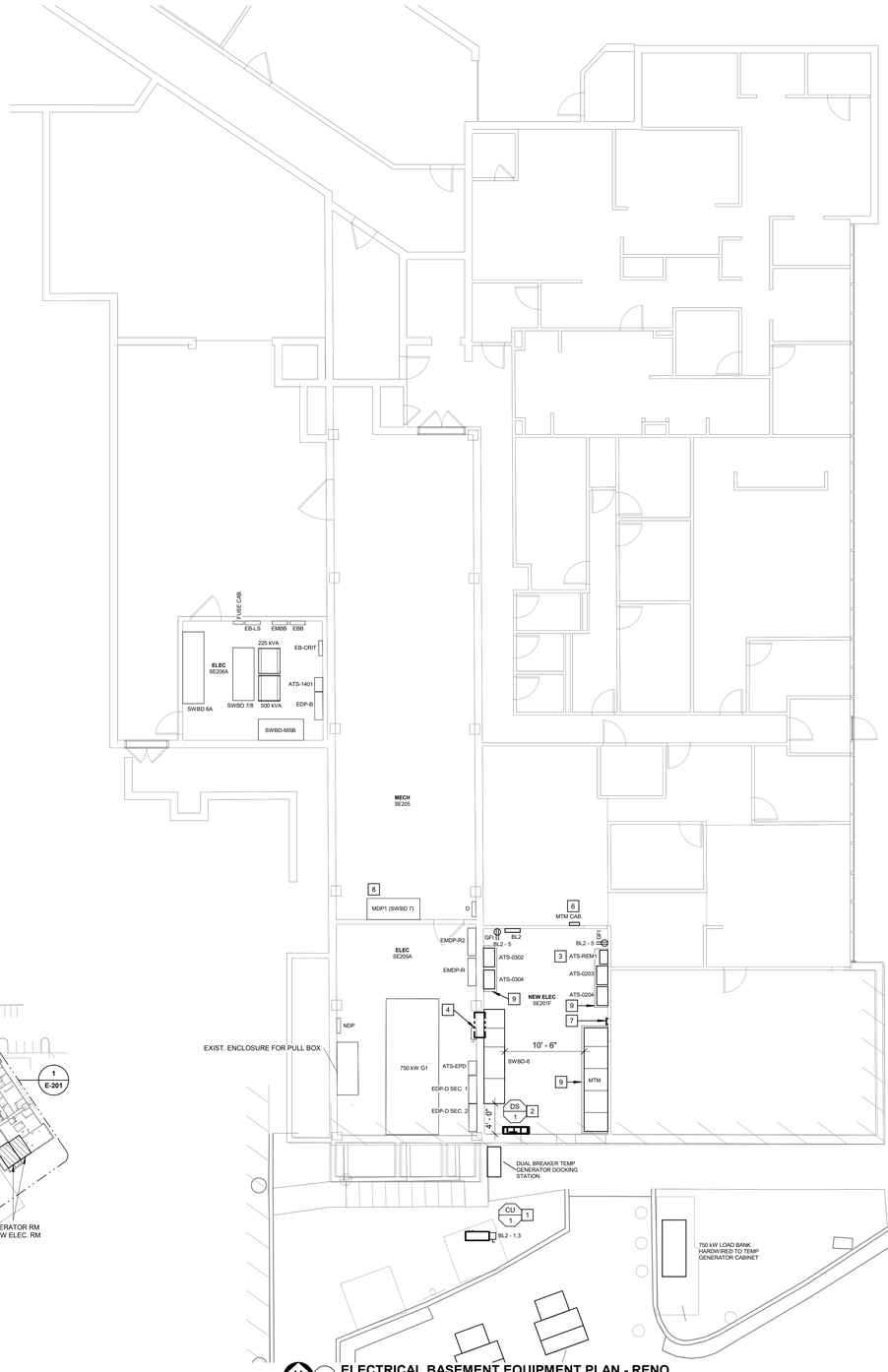
SHEET

E-101

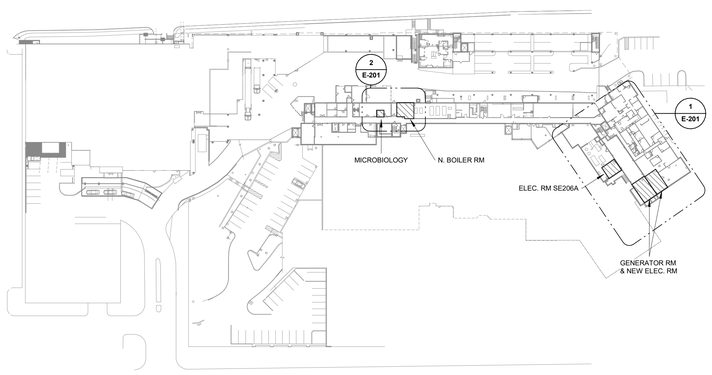
SSC JOB# 2024379 - BID SET 07/08/25



2 **ELECTRICAL N. BOILER RM & MICROBIO EQUIPMENT PLAN - RENO**
SCALE: 1/8" = 1'-0"
NORTH



1 **ELECTRICAL BASEMENT EQUIPMENT PLAN - RENO**
SCALE: 1/8" = 1'-0"
NORTH



KEY PLAN
NOT TO SCALE

one-eighth inch = one foot
0 4 8 16

ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E0.1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND HVAC WORK SHALL BE COORDINATED BY THE CONTRACTOR DOING THE WORK. ANY CORRECTIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL DISCONNECTS REQUIRED SHALL BE PROVIDED BY THE EC, U.N.O. SEE MECHANICAL & PLUMBING EQUIPMENT SCHEDULE(S) FOR EQUIPMENT DETAILS AND FOR DISCONNECTS FURNISHED BY OTHERS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR MECHANICAL & PLUMBING EQUIPMENT CONNECTION DETAILS. COORDINATE WITH APPLICABLE TRADES.
4. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS, SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122, SEE SPECIFICATIONS.
5. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DISCONNECT SWITCHES SHALL BE IN RATED NEMA 3R OR 4X ENCLOSURES. FINAL CONDUIT CONNECTIONS TO EXTERIOR MECHANICAL EQUIPMENT SHALL BE MADE WITH LFMC.

ELECTRICAL KEYED NOTES:

1. PROVIDE SCHEDULE PVC CONDUIT BELOW GRADE AND CIRCUIT FROM PANEL INDICATED POWER TO MECHANICAL EQUIPMENT. COORDINATE WITH MC.
2. MECHANICAL EQUIPMENT POWERED BY OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULES ON SHEET M0.1 AND COORDINATE WITH MC.
3. RELOCATED ATS. REFER TO PHASING MATRIX AND SHEET ED-201 FOR MORE DETAILS.
4. CONDUIT ENTRY PATH VIA INFILLED DOOR FRAME TO ADJACENT NEW ELECTRICAL ROOM SPACE. PROVIDE PULL BOX FOR NORMAL POWER CONDUCTORS TO NEW SWBD-6. CONDUITS FOR CRITICAL BRANCH AND LIFE SAFETY BRANCH CONDUCTORS SHALL BE KEPT SEPARATE AND IN DEDICATED CONDUITS FROM NORMAL POWER CONDUCTORS.
5. ATS REPLACED IN CURRENT LOCATION. REFER TO PHASING MATRIX AND SHEET ED-201 FOR MORE DETAILS.
6. MTM CABINET FOR REMOTE OPEN AND CLOSE OF MAIN-TIE-MAIN BREAKERS.
7. EXTERNAL 12"X4" CU GROUND BUS FOR BONDING OF MAIN-TIE-MAIN TO EXISTING GEC.
8. INSTALL NEW 100A/3P BREAKER IN SWBD-7 TO FEED NEW PANEL 'BL2.' NEW 100A/3P BREAKER TO BE ABB, TED, 18KA RATED, 208V LI BREAKER.
9. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD FOR GROUND MOUNTED EQUIPMENT. CONCRETE PAD TO BE 1" LARGER IN EACH DIMENSION THAN THE EQUIPMENT TO BE PLACED ON THE PAD.

SSC
Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	SSC
CHECKED BY	JMS

SHEET CONTENTS

ELECTRICAL BASEMENT EQUIPMENT PLAN - RENO

SHEET

E-201

SSC JOB# 2024379 - BID SET 07/08/25

ANCHORAGE & SWAY BRACING - PLUMBING SYSTEM COMPONENTS

Seismic Use Group (IV) — Seismic Design Category (D)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
	Not Provided	Provided	Not Provided	Provided	Drawing No. or Spec. Section	Shop Drawings	Separate Permit & Plans	
WASTE PIPING	X		X					2a, 3
VENT PIPING	X		X					2a, 3
WATER PIPING	X		X					2c, 3
STORM PIPING		X		X		X		2b, 3

1. TABLE 4.4, ITEM 1, A, Ip=1.0, COMPONENT DOES NOT WEIGH MORE THAN 400 POUNDS AND FLEXIBLE CONNECTIONS ARE PROVIDED.
2. TABLE 4.4, NOTE 2:
   a. THE FOLLOWING SANITARY DRAIN, WASTE AND VENT PIPE:
      - SCHEDULE 40 PVC, 6 INCHES OR LESS IN DIAMETER, SCHEDULE 80 PVC, 4 INCHES OR LESS IN DIAMETER, SERVICE WEIGHT AND NO HUB CAST IRON, 2 INCHES OR LESS IN DIAMETER.
   b. THE FOLLOWING STORM DRAIN PIPE:
      - SCHEDULE 40 AND 80 PVC, 3 INCHES OR LESS IN DIAMETER, SERVICE WEIGHT AND NO HUB CAST IRON, NOT APPLICABLE.
   c. THE FOLLOWING WATER PIPE:
      - TYPE L AND M COPPER, 2-1/2 INCHES OR LESS IN DIAMETER, SCHEDULE 40 AND 80 CPVC, 3 INCHES OR LESS IN DIAMETER.
   d. FLEXIBLE CONNECTIONS ARE NOT REQUIRED FOR CONNECTIONS TO APPLIANCES OR PLUMBING FIXTURES THAT ARE MOUNTED TO WALLS OR FLOORS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO SUBMITTAL TO THE PLAN REVIEWER.
4. SEISMIC DETAILS ARE ATTACHED TO THE SET OF DRAWINGS.
5. TYPICAL SEISMIC ANCHORAGE (OR SWAY BRACING) IS PROVIDED ON THE DRAWINGS FOR REFERENCE ONLY. SHOP DRAWINGS ARE REQUIRED.

PLUMBING SYMBOLS LEGEND

WC-1	FIXTURE TYPE - FIXTURE NUMBER
	CONNECTION OF NEW TO EXISTING
	DEMOLITION OF PIPE, EQUIPMENT, FIXTURES, ETC
—D—	DRAIN
— - - - —	COLD WATER (CW)
— - - —	HOT WATER SUPPLY (HW)
— - - - —	HOT WATER RETURN (REC)
—S—	SOFT WATER
—H—	HARD WATER
—T—	TEMPERED WATER
—140—	140 DEGREE HOT WATER
—GW—	GREASE WASTE
	SANITARY WASTE ABOVE GRADE
— — — —	SANITARY VENT
—SSD—	SUB SURFACE DRAINAGE
—ST—	STORM DRAINAGE PIPING ABOVE GRADE
—OD—	OVERFLOW DRAINAGE PIPING ABOVE GRADE
	PIPING BELOW GRADE (SEE PLANS)
	PLUMBING TRAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	WATER HAMMER ARRESTER
	BALL VALVE
	FLOW CONTROL/BALANCE VALVE
	PRESSURE RELIEF VALVE
	CHECK VALVE
	UNION
	PRESSURE GAUGE
	STRAINER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	DOUBLE GATE DOUBLE CHECK (DGDC)
TP	TRAP PRIMER
	THRU-FLOOR
AFF	ABOVE FINISHED FLOOR
BTC	BRANCH TO CONNECTION
CI	CAST IRON
CO	CLEAN OUT
EX	EXISTING
FFE	FINISHED FLOOR ELEVATION
IE	INVERT ELEVATION
NTS	NOT TO SCALE
RI	ROUGH IN
TYP	TYPICAL
VTR	VENT THRU ROOF

PLUMBING GENERAL DEMOLITION NOTES:

1. THESE GENERAL DEMOLITION NOTES APPLY TO ALL DEMOLITION WORK.
2. DEMOLISH PIPING, FIXTURES, AND EQUIPMENT SHOWN CROSS HATCHED.
3. THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
4. CONTRACTOR SHALL USE CAUTION WHEN REMOVING PIPING, EQUIPMENT AND FIXTURES TO AVOID DAMAGE TO ELECTRICAL WIRING THAT IS TO REMAIN. NOTIFY GC AND EC IF WIRING IS FOUND ATTACHED TO PIPING.
5. WHEREVER EXISTING EQUIPMENT, PIPING, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC., UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES.
6. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
7. SEE ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP DEMOLITION PLANS FOR MEP DEMOLITION.
8. THE OWNER WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY ACMs (ASBESTOS CONTAINING MATERIALS, PCBs OR OTHER HAZARDOUS MATERIALS) PRESENTLY EXISTING WITHIN THE AREAS AFFECTED BY THE PROJECT SCOPE, THAT WOULD BE REQUIRED TO BE REMOVED FOR THE WORK. ABATEMENT WORK, IF REQUIRED, IS NOT PART OF THIS CONTRACT.
9. MEP DEMOLITION WORK: VERIFY EXISTING SERVICES TO REMAIN. ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS TO REMAIN. DUCTWORK, PIPING, ELECTRICAL LINES, AND PLUMBING SERVING OTHER AREAS SHALL PROVIDE FOR UNINTERRUPTED SERVICE TO THOSE AREAS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OWNER. COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND OWNER'S ON SITE REPRESENTATIVE.

PLUMBING GENERAL RENOVATION NOTES:

1. THESE GENERAL NOTES APPLY TO ALL WORK.
2. THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
3. PIPING ON PLANS IS SHOWN FOR GENERAL ARRANGEMENT. SEE DETAILS FOR CONNECTIONS TO UNITS.
4. WHERE PIPE SIZES ARE NOT SHOWN ON PLANS, SEE SIZES SHOWN ON ISOMETRICS. IF PIPE SIZES ON PLANS CONFLICT WITH SIZES SHOWN ON ISOMETRIC DIAGRAMS, SIZES ON DIAGRAMS SHALL TAKE PRECEDENCE.
5. SLOPE ALL SANITARY PIPES SMALLER THAN 4" AT 1/4" PER FT. AND SANITARY PIPES 4" OR LARGER AT 1/8" PER FT. UNLESS OTHERWISE INDICATED.
6. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PREVENT THE INSTALLATION OF CONDUITS, PIPING, LIGHTING, OR OTHER OBSTRUCTIONS UNDER OR ADJACENT TO HVAC EQUIPMENT THAT OBSTRUCTS ACCESS TO COILS, MOTORS, VALVES, FILTERS, ETC., OR OTHER HVAC COMPONENTS NEEDING MAINTENANCE OR OPERATIONS ACCESS.
7. NO PIPING SHALL BE INSTALLED DIRECTLY ABOVE ELECTRICAL, ELEVATOR MACHINE OR GENERATOR EQUIPMENT UNLESS OTHERWISE INDICATED. COORDINATE EXACT LOCATIONS AND CLEARANCES OF ELECTRICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR.
8. COORDINATE PLUMBING WITH ALL MECHANICAL DUCTWORK AND PIPING AND SPRINKLER PIPING BEFORE COMMENCEMENT OF WORK.
9. LOCATIONS OF NEW FIXTURES, EQUIPMENT, PIPING, AND ASSOCIATED ITEMS SHOWN ON THE DRAWINGS ARE SCHEMATIC. CONTRACTOR SHALL SEE ARCHITECTURAL PLANS AND FIELD VERIFY EXACT LOCATION AND ELEVATION OF ALL WORK. PROVIDE OFFSETS, FITTINGS, TRANSITIONS, EXTENSIONS, ETC., REQUIRED FOR A COMPLETE SYSTEM.
10. NO CHANGES IN CONTRACT PRICE WILL BE ALLOWED FOR MINOR CHANGES IN LAYOUT OR LOCATION REQUIRED TO AVOID INTERFERENCES, OBSTRUCTIONS, ETC. CONTRACT PRICE CHANGES WILL BE CONSIDERED ONLY FOR CHANGES IN THE SCOPE OF THE PROJECT REQUIREMENTS. ALL SUCH SCOPE CHANGES AND PRICE REVISIONS MUST BE AUTHORIZED IN WRITING. NOTIFY THE ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
11. PIPING IN EXPOSED LOCATIONS SHALL BE CHROME PLATED UNLESS OTHERWISE INDICATED.
12. CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT ALL LOCATIONS WHERE PIPES PENETRATE WALLS IN EXPOSED LOCATIONS.
13. PROVIDE SEISMIC BRACING AS REQUIRED.
14. ALL UTILITIES SERVING EXISTING AREAS SHALL REMAIN IN SERVICE AT ALL TIMES EXCEPT FOR SHORT PERIODS OF INTERRUPTION FOR TIE IN OF NEW SERVICES TO EXISTING. ALL INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER, AND SHALL NOT BE SCHEDULED UNTIL NEW SERVICES ARE COMPLETE AND READY FOR FINAL CONNECTION.
15. SPACES ABOVE CEILINGS ARE RETURN AIR PLENUMS UNLESS OTHERWISE INDICATED ON HVAC PLANS. PIPING AND INSULATION IN CEILING PLENUMS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AS DETERMINED IN ACCORDANCE WITH ASTM STANDARD E-84. PVC PIPE WITH PLENUM RATED PIPE WRAP IS NOT AN APPROVED INSTALLATION WITHIN RETURN AIR PLENUM.
16. CONTRACTOR SHALL ORDER, PURCHASE, RECEIVE, UN-CRATE, ASSEMBLE, AND INSTALL ALL ITEMS IN CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS. ADDITIONALLY CONTRACTOR SHALL INSTALL AND FINAL CONNECT OWNER FURNISHED ITEMS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL INSURE ALL EQUIPMENT FOR FULL REPLACEMENT VALUE.
17. COORDINATE ALL SHUTDOWN, DRAINING, AND TIE-IN OF ANY SYSTEMS WITH FACILITIES MANAGER / OWNER'S REPRESENTATIVE.

PLUMBING SHEET LIST

Sheet Number	Sheet Name
P-001	PLUMBING SYMBOLS, ABBREVIATIONS & GENERAL NOTES
PD-101	PLUMBING BASEMENT PLAN - DEMO
P-101	PLUMBING BASEMENT PLAN - RENO

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.lawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	MJO
CHECKED BY	CWH

SHEET CONTENTS

PLUMBING SYMBOLS, ABBREVIATIONS & GENERAL NOTES

SHEET

P-001

SSC JOB# 2024379 - BID SET 07/08/25

PLUMBING GENERAL NOTES:

1. REFER TO SHEET P-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. FIELD VERIFY ALL EXISTING PIPE SIZES AND FLOW LINES.
3. COORDINATE ALL SHUTDOWN, DRAINING, AND TIE-IN OF ANY SYSTEMS WITH FACILITIES MANAGER / OWNER'S REPRESENTATIVE.

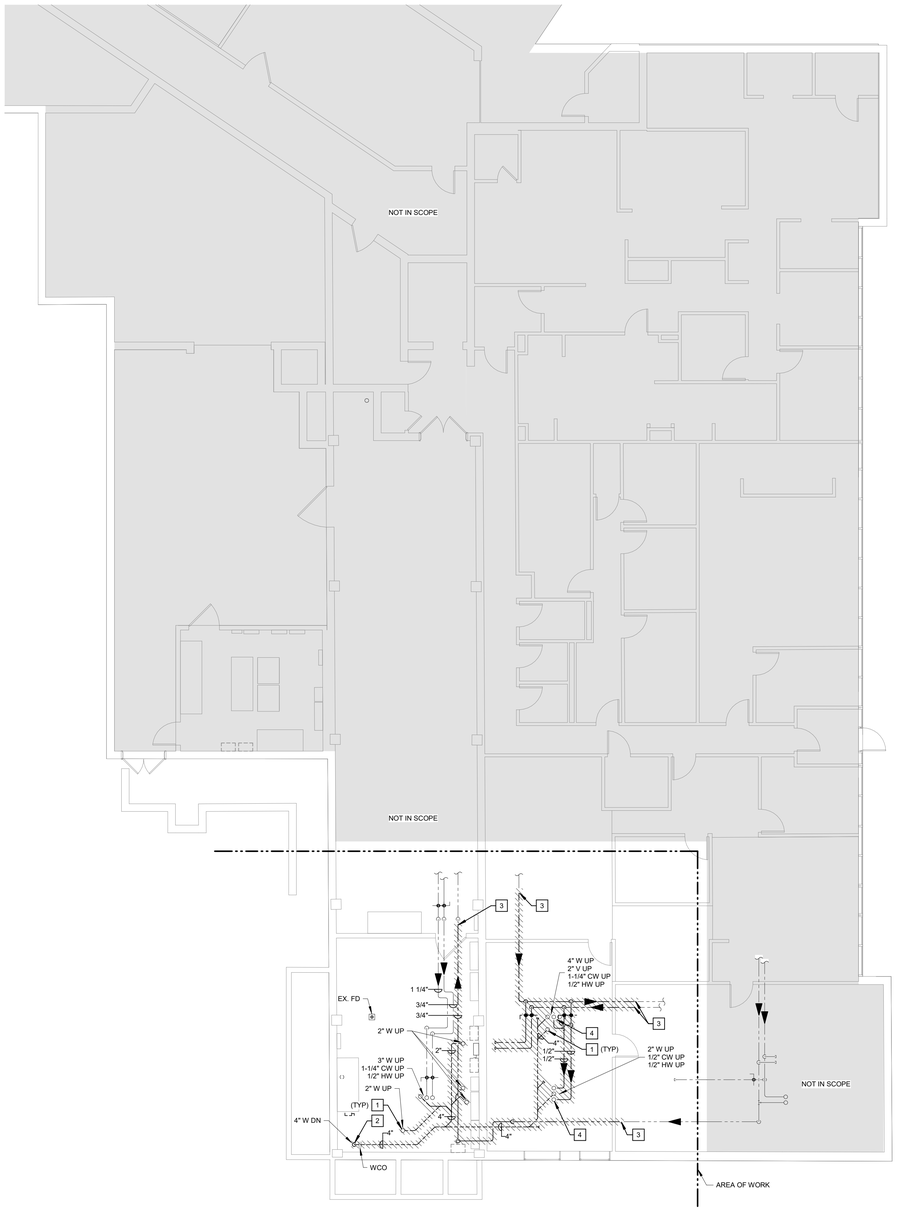
PLUMBING KEYED NOTES:

1 DEMO CAST IRON WASTE AND VENT PIPING UP TO UNDERSIDE OF SLAB. CLEAN AND PREPARE PIPES FOR NEW CONNECTION.

2 DEMO CAST IRON WASTE STACK BACK TO CLEANOUT. CLEAN AND PREPARE PIPE FOR NEW CONNECTION.

3 DEMO SECTION OF DOMESTIC WATER PIPE. CLEAN AND PREPARE FOR NEW CONNECTION.

4 DEMO DOMESTIC WATER PIPING UP TO UNDERSIDE OF SLAB. CLEAN AND PREPARE PIPES FOR NEW CONNECTION.



PLUMBING BASEMENT PLAN - DEMO
SCALE: 1/8" = 1'-0"
NORTH

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	MJO
CHECKED BY	CWH

SHEET CONTENTS

PLUMBING BASEMENT PLAN - DEMO

SHEET

PD-101

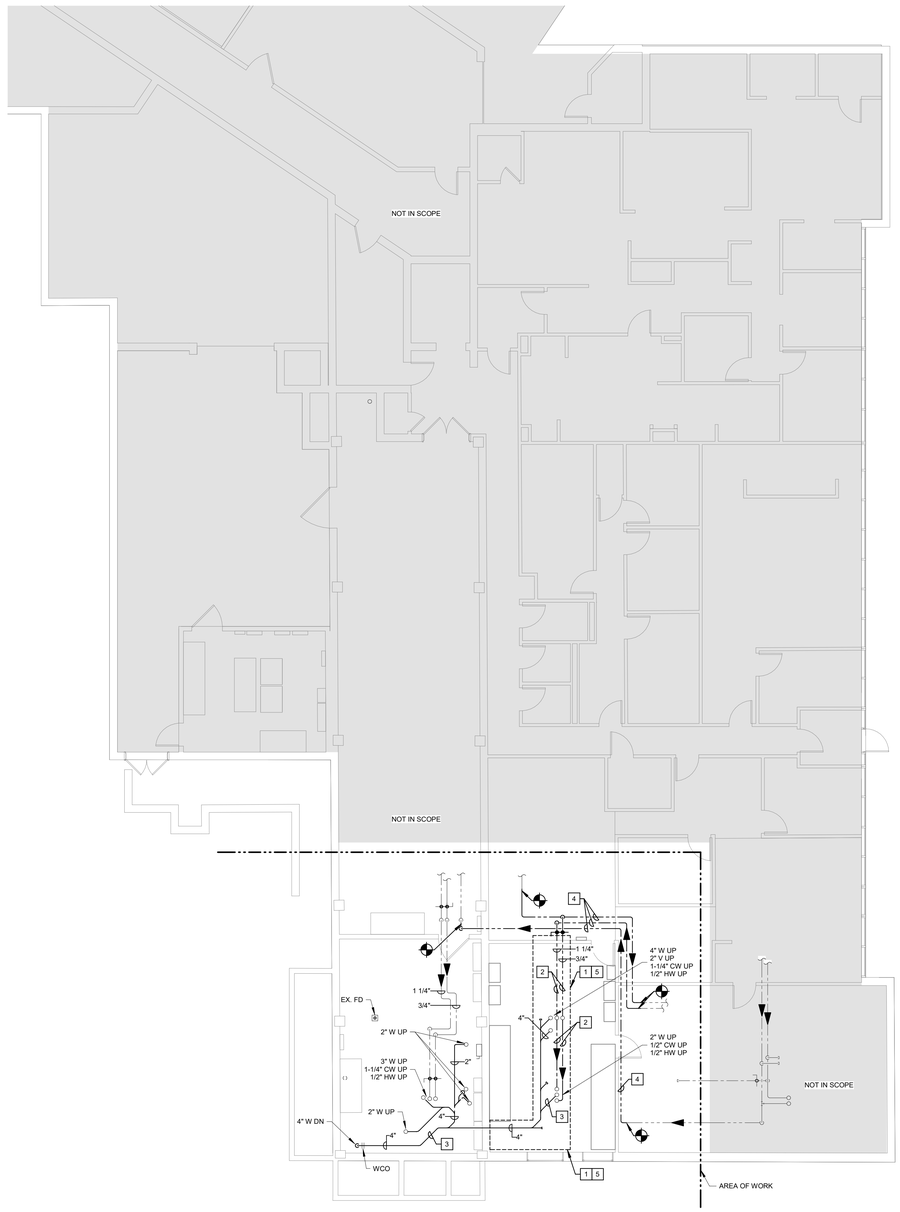
SSC JOB# 2024379 - BID SET 07/08/25

PLUMBING GENERAL NOTES:

1. REFER TO SHEET P-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. FIELD VERIFY ALL EXISTING PIPE SIZES AND FLOW LINES.
3. COORDINATE ALL SHUTDOWN, DRAINING, AND TIE-IN OF ANY SYSTEMS WITH FACILITIES MANAGER / OWNER'S REPRESENTATIVE.

PLUMBING KEYED NOTES:

1. PROVIDE DRIP PAN UNDER WASTE PIPES TO PROTECT ELECTRICAL EQUIPMENT FROM DRIPS/LEAKS. DRIP PAN SHALL EXTEND OUTSIDE OF ROOM SO THAT DRAIN CONNECTION IS NOT WITHIN ELECTRICAL ROOM. COORDINATE DRIP PAN DRAINS WITH MECANICAL DRAWINGS.
2. PROVIDE FIELD FABRICATED COPPER CONTAINMENT PIPE AROUND NEW SUPPLY PIPES AND INSULATION, TRICON PIPING SYSTEMS OR EQUAL. CONTAINMENT PIPE SHALL BE ONE PIPE SIZE LARGER THAN TOTAL INNER PIPE WITH INSULATION DIAMETER. SUPPLY PIPE SHALL BE SLOPED BACK TO BRANCH CONNECTION.
3. REPLACE CAST IRON WASTE AND VENT PIPE WITH NEW PIPE IN SAME SIZES AND ROUTING AS EXISTING.
4. RE-ROUTE PIPE AROUND NEW ELECTRICAL ROOM. COORDINATE EXACT LOCATION AND ELEVATIONS WITH DUCTWORK AND MECHANICAL PIPING.
5. PROVIDE WATERBUG LEAK DETECTION SENSORS, COORDINATE WITH M.C. AND E.C. FOR LOCATIONS AND WIRING ALARM INTO HOSPITAL BAS.



PLUMBING BASEMENT PLAN - RENO
SCALE: 1/8" = 1'-0"
NORTH

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.dlklawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	MJO
CHECKED BY	CWH

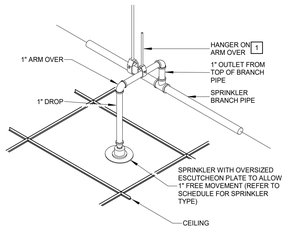
SHEET CONTENTS

PLUMBING BASEMENT PLAN - RENO

SHEET

P-101

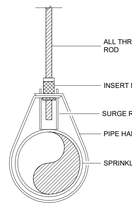
SSC JOB# 2024379 - BID SET 07/08/25



1 HANGER ASSEMBLY THAT PREVENTS UPWARD MOVEMENT OF PIPE PROVIDED WHEN ARM OVER EXCEEDS 12" FOR SYSTEM STATIC PRESSURES OVER 100 PSI OR WHEN ARM OVER EXCEEDS 24", IN ACCORDANCE WITH NFPA 13 SECTION 9.2.3.5 (2007/2010/2013/2016 EDITION) 17.4.3.5 (2019/2022 EDITION).

SPRINKLERS CONNECTING TO THE BOTTOM OF THE BRANCH PIPE ARE NOT PERMITTED.

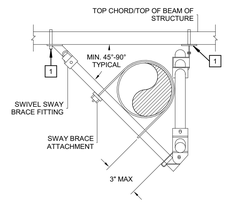
5 TYPICAL RETURN BEND
NOT TO SCALE



1 ROD DIAMETER SHALL BE MINIMUM 3/8" FOR 1" TO 4" PIPE DIAMETER OR MINIMUM 1/2" FOR 6" TO 8" PIPE DIAMETER.

2 PROVIDE A SURGE RESTRAINER, CLEVIS-TYPE HANGER, U-HOOK, OR PROVIDE HANGER ROD TIGHT TO PIPE; (1) AT END PENDENT SPRINKLER TO PREVENT UPWARD MOVEMENT OF PIPE WHERE PRESSURE EXCEEDS 100 PSI. IN ACCORDANCE WITH NFPA 13 SECTION 9.2.3.4.4 (2007/2010/2013/2016 EDITION) 17.4.3.4.4 (2019/2022 EDITION), OR (2) WHERE USED FOR SEISMIC RESTRAINT OF PIPING.

4 PIPE HANGER
NOT TO SCALE

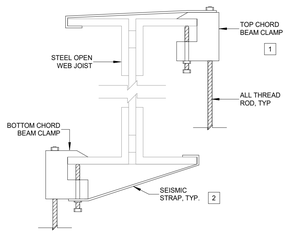


1 ATTACH TO STRUCTURAL MEMBERS VIA APPROVED ATTACHMENT METHOD; ATTACHMENT TO ROOF DECK IS PROHIBITED.

NOTE:

1. PROVIDED UPSTREAM AND DOWNSTREAM WITHIN 6 FEET OF SEISMIC SEPARATION ASSEMBLY IN ACCORDANCE WITH NFPA 13 SECTION 9.3.3.3 (2007/2010/2013/2016 EDITION) 18.3.3 (2019/2022 EDITION).

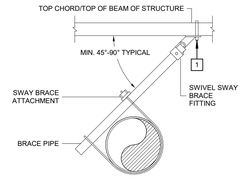
3 FOUR-WAY SEISMIC BRACE
NOT TO SCALE



1 PROVIDE BEAM CLAMPS AT TOP CHORD OF JOIST UNLESS BOTTOM CHORD ATTACHMENT IS APPROVED BY STRUCTURAL ENGINEER.

2 PROVIDE SEISMIC RESTRAINING STRAP WHERE SEISMIC BRACING IS REQUIRED (SEE ANCHORAGE & SWAY BRACING TABLE)

7 PIPE HANGER DETAIL - BAR JOISTS
NOT TO SCALE



1 ATTACH TO STRUCTURAL MEMBERS VIA APPROVED ATTACHMENT METHOD; ATTACHMENT TO ROOF DECK IS PROHIBITED.

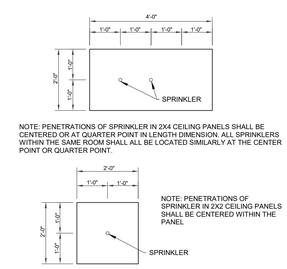
NOTES:

1. PROVIDED ON ALL FEED MAINS, CROSS MAINS, AND PIPING 2-1/2" AND LARGER PER NFPA 13 SECTION 9.3.5.3 (2007/2010 EDITION) 9.3.5.5 (2013/2016 EDITION) 18.5.5 (2019/2022 EDITION).

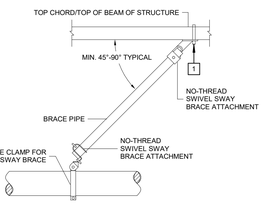
2. PROVIDED AT (1) NO MORE THAN 40 FOOT INTERVALS, (2) WITHIN 6 FEET OF END OF PIPE, AND (3) WITHIN 24 INCHES OF EVERY OTHER NON-ESSENTIAL FLEXIBLE COUPLING.

3. LATERAL BRACES MAY BE OMITTED WHERE SPECIFICALLY ALLOWED BY NFPA 13.

2 LATERAL SEISMIC BRACE
NOT TO SCALE



6 CEILING TILE SPRINKLER SPACING
NOT TO SCALE



1 ATTACH TO STRUCTURAL MEMBERS VIA APPROVED ATTACHMENT METHOD; ATTACHMENT TO ROOF DECK IS PROHIBITED.

NOTE:

1. PROVIDED ON ALL FEED AND CROSS MAINS AT NO MORE THAN 80 FEET ON CENTER AND WITHIN 40 FEET OF THE END OF PIPE, IN ACCORDANCE WITH NFPA 13 SECTION 9.3.5.4 (2007/2010 EDITION) 9.3.5.6 (2013/2016 EDITION) 18.5.6 (2019/2022 EDITION).

1 LONGITUDINAL SEISMIC BRACE
NOT TO SCALE

FIRE PROTECTION DESIGN CRITERIA (NFPA 13 - 2022 EDITION)

HAZARD	AREA	DESIGN CRITERIA	HOSE (GPM)	MAX SPACING (SQFT)	DESIGN BASIS
LIGHT HAZARD	OFFICE AREAS / PUBLIC AREAS / CORRIDORS / RESTROOMS / LOBBY / CONFERENCE ROOMS / BREAK ROOM	0.10 / 1500 SQFT	100	225	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 1	ELECTRICAL / MECHANICAL / STORAGE / SERVER / IT	0.15 / 1500 SQFT	250	130	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
ORDINARY HAZARD GROUP 2	MISCELLANEOUS STORAGE / MERCANTILE	0.20 / 1500 SQFT	250	130	NFPA 13 SECTIONS 5.2, 11.2.3.2, & TABLE 11.2.3.1.2
MINIMUM REQUIRED SAFETY FACTOR: 5 PSI OR AHJ MINIMUM					

NOTES:

1. THE HYDRAULIC AREA OF OPERATION MAY NOT BE REDUCED AS ALLOWED BY NFPA 13 FOR AREAS UTILIZING QUICK RESPONSE SPRINKLERS FOR NEW SYSTEM INSTALLATIONS OR UNFINISHED SHELL SPACES.
2. HYDRAULIC AREA OF OPERATION SHALL BE INCREASED (CUMULATIVELY) WITHOUT REVISING THE DENSITY FOR THE FOLLOWING APPLICATIONS:
   A. INCREASED BY 30% FOR AREAS WITH SLOPED CEILINGS WITH A PITCH EXCEEDING 1 IN 6 (16.7%) SLOPE IN ACCORDANCE WITH NFPA 13 11.2.3.2.4,
   B. INCREASED BY 30% FOR DRY-PIPE AND DOUBLE INTERLOCK PRE-ACTION SYSTEMS, IN ACCORDANCE WITH NFPA 13 11.2.3.2.5.
   C. INCREASED TO 3,000 SQFT IF THE BUILDING HAS ADJACENT, NON-SPRINKLERED COMBUSTIBLE SPACES.
3. THE ABOVE CRITERIA NOTED DOES NOT PRECLUDE THE USE OF EXTENDED COVERAGE OR LISTED SPECIAL APPLICATION SPRINKLERS THAT ARE DESIGNED AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER REQUIREMENTS.
4. THE HOSE STREAM ALLOWANCE SHALL BE PROVIDED AT THE BASE OF RISER.

ANCHORAGE & SWAY BRACING - FIRE PROTECTION SYSTEM COMPONENTS

Occupancy Category (IV) — Seismic Design Category (D)

LISTING OF EQUIPMENT AND SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOFS, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY SEALED ANCHORAGE AND SWAY BRACING DETAILS			COMMENTS
	Not Provided	Provided	Not Provided	Provided	Drawing No. or Spec. Section	Shop Drawings	Separate Permit & Plans	
PIPING AND EQUIPMENT	-	X	-	X	-	BY FPC (Delegated Design)	-	BRACE PIPING AND/OR EQUIPMENT WHERE REQUIRED BY IBC / IFC AND PER METHODS IN NFPA 13

VIBRATION ISOLATION AND SEISMIC RESTRAINT SCHEDULE

EQUIPMENT TAG	ISOLATION SPEC.	SEISMIC RESTRAINT	ISOLATOR DEFLECTION	COMPONENT		
				IMPORTANCE FACTOR	RESPONSE MODIFICATION FACTOR	AMPLIFICATION FACTOR
SPR-PIPING	SC	YES	-	1.5	2.5	1.0
SPR-EQUIP	W / B	YES	-	1.5	2.5	1.0

HYDRAULIC CALCULATIONS

FOR THIS SCOPE OF WORK, THE CONTRACTOR MAY PROVIDE A SIGNED AND SEALED LETTER STATING THAT THE HYDRAULIC DEMAND OF THE WORK PERFORMED WILL BE EQUAL TO OR LESS THAN THE HYDRAULIC DEMAND OF THE EXISTING SYSTEM AND IS DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13. THIS WILL BE ACCEPTED IN LIEU OF A HYDRAULIC CALCULATION WHERE APPROVED BY BOTH THE OWNER AND THE AUTHORITY HAVING JURISDICTION.

FIRE PROTECTION SPRINKLER SCHEDULE

SYMBOL	TYPE	RE.	K-F	FINISH	NOTE
NEW					
	FULLY-CONCEALED PENDENT	QR	5.6	WHITE COVERPLATE	-
	FULLY-CONCEALED DRY PENDENT	QR	5.6	WHITE COVERPLATE	1
	RECESSED PENDENT	QR	5.6	WHITE	2
	UPRIGHT	QR	5.6	BRASS	2
	SIDEWALL	QR	5.6	WHITE	2
	DRY SIDEWALL	QR	5.6	WHITE	2
EXISTING					
	EXISTING PENDENT/UPRIGHT	-	-	-	-
	EXISTING SIDEWALL	-	-	-	-
DEMO					
	DEMO PENDENT/UPRIGHT	-	-	-	-
	DEMO SIDEWALL	-	-	-	-

GENERAL NOTES:

1. SPRINKLER SHALL BE THE APPROPRIATE TEMPERATURE RATING FOR LOCATION AND OCCUPANCY IN ACCORDANCE WITH NFPA 13.
2. SPRINKLERS SHALL ALIGN WITH LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES. COORDINATE SPRINKLER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, AND PROVIDE ADDITIONAL SPRINKLERS WHERE REQUESTED BY ARCHITECT.

NOTES:

1. PROVIDE HIGH TEMPERATURE RATED SPRINKLERS IN VESTIBULES.
2. PROVIDE WITH LISTED SPRINKLER GUARD FOR INSTALLATIONS BELOW 7 FT AFF.

FIRE PROTECTION SYMBOL LEGEND

	SCOPE OF WORK BOUNDARY
	TEE
	ELBOW
	PIPE CONTINUATION
	SUPERVISED BUTTERFLY INDICATING VALVE
	COUPLING
	SUPERVISED WATERFLOW SWITCH
	PRESSURE GAUGE WITH BALL VALVE
	INSPECTOR'S TEST & DRAIN W/ SIGHT GLASS
	CHECK VALVE (3" AND SMALLER)
	CHECK VALVE (4" AND LARGER)
	FIRE PUMP (SECTION VIEW)
	REDUCER
	SUPERVISED OS&Y VALVE
	HOSE CONNECTION
	FIRE PUMP TEST HEADER
	FIRE PUMP TEST HEADER
FS	SUPERVISED WATERFLOW SWITCH
PS	SUPERVISED PRESSURE SWITCH
TS	SUPERVISED TAMPER SWITCH
	CONNECTION OF NEW TO EXISTING
	NEW FIRE SUPPRESSION PIPE
	DEMO FIRE SUPPRESSION PIPE (ON DEMO PLANS ONLY)
	EXISTING FIRE SUPPRESSION PIPE

FIRE PROTECTION ABBREVIATION LEGEND

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BOP	BOTTOM OF PIPE
BRZ	BRONZE
DN	DOWN
EC	EXTENDED COVERAGE
EX	EXISTING
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GC	GENERAL CONTRACTOR
GRVD	GROOVED
HSW	HORIZONTAL SIDEWALL
IN	INCH
PC	PLUMBING CONTRACTOR
PND	PENDENT
QR	QUICK RESPONSE
SPR	SPRINKLER SYSTEM
SS	STANDPIPE SYSTEM
STND	STANDARD
THR	THREADED
UPR	UPRIGHT

FIRE PROTECTION GENERAL DEMOLITION NOTES:

1. NOTATION: DEMOLISH PIPING AND EQUIPMENT SHOWN CROSS HATCHED.
2. EXISTING CONDITIONS: THESE DRAWINGS MAY NOT FULLY DEPICT ALL AS-BUILT CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID(S). NOTIFY ENGINEER AT ONCE SHOULD A DISCREPANCY OR OMISSION BE FOUND.
3. DEMOLITION WORK: VERIFY EXISTING SERVICES TO REMAIN. ALL NECESSARY CARE SHALL BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO FIRE PROTECTION, PLUMBING, ELECTRICAL, AND MECHANICAL SYSTEMS TO REMAIN. NOTIFY GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR IF WIRING IS FOUND ATTACHED TO PIPING. FIRE PROTECTION SYSTEMS SERVING OTHER AREAS SHALL PROVIDE FOR UNINTERRUPTED SERVICE TO THOSE AREAS UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OWNER. COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR AND OWNER'S ON SITE REPRESENTATIVE.
4. REMOVAL: WHEREVER EXISTING FIRE PROTECTION EQUIPMENT, PIPING AND EQUIPMENT, ETC., ARE TO BE REMOVED, SUCH REMOVAL SHALL INCLUDE ALL ANCHORS, HANGERS, FOUNDATIONS, ETC. ASSOCIATED WITH THE FIRE PROTECTION EQUIPMENT, UNLESS NOTED OTHERWISE. AFTER REMOVAL, FLOORS, WALLS AND CEILINGS SHALL BE PATCHED AND FINISHED TO MATCH ADJOINING SURFACES.
5. WHERE ITEMS ARE REMOVED, UTILITIES AND THE AREA FROM WHICH THE ITEMS HAVE BEEN REMOVED SHALL BE LEFT IN SUCH A MANNER THAT IS SAFE FOR BOTH PEOPLE AND PROPERTY ON A DAILY BASIS.
6. PLAN REVIEW: REFER TO ARCHITECTURAL DRAWINGS FOR ARCHITECTURAL DEMOLITION. REFER TO MEP AND SPRINKLER DEMOLITION PLANS FOR MEP DEMOLITION.

FIRE PROTECTION GENERAL NOTES:

1. SCOPE: PROVIDE A COMPLETE, FUNCTIONING FIRE SPRINKLER SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, (2007/2010/2013/2016 EDITION). SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE, FIRE CODE, AUTHORITY HAVING JURISDICTION, AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED FOR PROVIDING AND INSTALLING EQUIPMENT REQUIRED BY THE AFOREMENTIONED CODES, STANDARDS, OR THE LOCAL AUTHORITY HAVING JURISDICTION.
2. DELEGATED DESIGN: THE LOCATIONS OF MAJOR FIRE PROTECTION EQUIPMENT AND PIPE ROUTING ARE SHOWN FOR REFERENCE ONLY TO ASSIST IN BIDDING AND SPACE COORDINATION. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND PROVIDING A COMPLETE, FUNCTIONAL, AND CODE COMPLIANT AUTOMATIC SPRINKLER SYSTEM. FIRE PROTECTION CONTRACTOR SHALL: DESIGN, LOCATE AND PROVIDE ALL EQUIPMENT, VALVES, PIPE ARRANGEMENTS AND COORDINATE WITH OTHER TRADES TO MEET THE APPLICABLE CODES AND STANDARDS FOR A COMPLETE AND FUNCTIONAL SYSTEM. ALL EQUIPMENT, PIPING, VALVING, ETC. SHALL BE LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
3. APPROVAL: PRIOR TO COMMENCING WORK, APPROVAL SHALL BE RECEIVED FROM THE OWNERS INSURANCE COMPANY, ENGINEER, FIRE MARSHAL AND OWNER. WORK COMMENCED PRIOR TO SHOP DRAWING REVIEW SHALL BE AT CONTRACTOR'S RISK.
4. PIPING AND COORDINATION:
   A. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES FOR THE LOCATION OF ALL PIPING AND EQUIPMENT TO PREVENT INTERFERENCE. PROVIDE ALL NECESSARY OFFSETS IN PIPING TO AVOID CONFLICT. NO CHANGE TO THE CONTRACT PRICE WILL BE ACCEPTED WHERE ALTERNATE PIPING ROUTES ARE REQUIRED.
   B. PIPE SHALL BE INSTALLED AS HIGH AS POSSIBLE IN OPEN STRUCTURE AREAS.
   C. CENTERLINE OF PIPING SHALL BE ROUTED A MINIMUM OF 12" ABOVE CEILING.
   D. RENDER ANY PASSAGE OF PIPING THROUGH OUTSIDE WALLS PERMANENTLY WATERTIGHT.
   E. PROVIDE SEISMIC BRACING AS REQUIRED FOR NEW PIPING. REFER TO BRACING DETAILS.
   F. WHERE PIPING ELEVATION CONFLICTS WITH DUCTWORK, OFFSETS TO FIRE PROTECTION PIPING SHALL BE UP AND OVER DUCTWORK. WHERE CONFLICTS OCCUR, PIPING SHALL NOT BE ROUTED DOWN BELOW DUCTWORK WHERE THIS PIPING WOULD BE WITHIN 12" OF CEILING ELEVATION.
   G. PROVIDE AUXILIARY DRAINS AS REQUIRED FOR DRAINING TRAPPED SECTIONS OF PIPING. FOR TRAPPED SECTIONS OF PIPING EXCEEDING 5 GALLONS IN CAPACITY, PROVIDE A HARD-PIPED DRAIN CONNECTION AND ROUTE BACK TO DRAIN IN SPRINKLER RISER ROOM OR ALTERNATE LOCATION APPROVED BY ENGINEER.
   H. COORDINATE ALL POWER AND FIRE ALARM CONNECTIONS WITH THE ELECTRICAL CONTRACTOR.
5. SPRINKLER TYPE AND DESIGN DENSITIES: REFER TO FIRE PROTECTION SPRINKLER SCHEDULE AND PROTECTION CRITERIA.
6. SUBMITTAL: FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE FOLLOWING DOCUMENTATION SIGNED AND SEALED BY A FIRE PROTECTION ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED:
   A. SHOP DRAWINGS CREATED IN ACCORDANCE WITH NFPA 13 SECTION 22.1.3 (2007/2010 EDITION)/23.1.3 (2013/2016 EDITION) AND CONTRACT DOCUMENTS
   B. HYDRAULIC CALCULATIONS
   C. SEISMIC DESIGN
   D. FLOW TEST INFORMATION
   E. PRODUCT DATA FOR ALL EQUIPMENT AND COMPONENTS USED ON THIS PROJECT. ALL EQUIPMENT AND COMPONENTS SHALL BE LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
   F. ANY OTHER DOCUMENTATION AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. FIRE WATCH AND SERVICE:
   A. CONTRACTOR SHALL PROVIDE A FIRE WATCH DURING CONSTRUCTION HOURS. COORDINATE WITH LOCAL FIRE DEPARTMENT FIRE WATCH REQUIREMENTS AND OBTAIN A FIRE WATCH INSPECTION FORM AND LOG INSPECTION TIME WHERE REQUIRED.
   B. WHERE ACCEPTABLE TO OWNER, COORDINATE WITH OWNER TO HAVE OWNER'S ON-SITE SECURITY PERFORM FIRE WATCH INSPECTIONS DURING NON-CONSTRUCTION HOURS.
   C. SYSTEM SHALL BE IN OPERATION AT THE END OF EACH CONSTRUCTION DAY.
      a. WITH THE PERMISSION OF THE FIRE DEPARTMENT, THE CONTRACTOR MAY PERFORM THE FIRE WATCH INSPECTIONS DURING OFF CONSTRUCTION HOURS IN LIEU OF HAVING THE SYSTEM OPERATIONAL AT THE END OF EACH DAY.
8. SPECIFICATIONS: REFER TO SPECIFICATIONS FOR FURTHER DETAIL.

FIRE PROTECTION SHEET LIST

Sheet Number	Sheet Name
FP-001	FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES
FP-101	FIRE PROTECTION PLAN

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority #2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS

FIRE PROTECTION SYMBOLS, NOTES, LEGENDS AND SCHEDULES

SHEET

FP-001

SSC JOB# 2024379 - BID SET 07/08/25

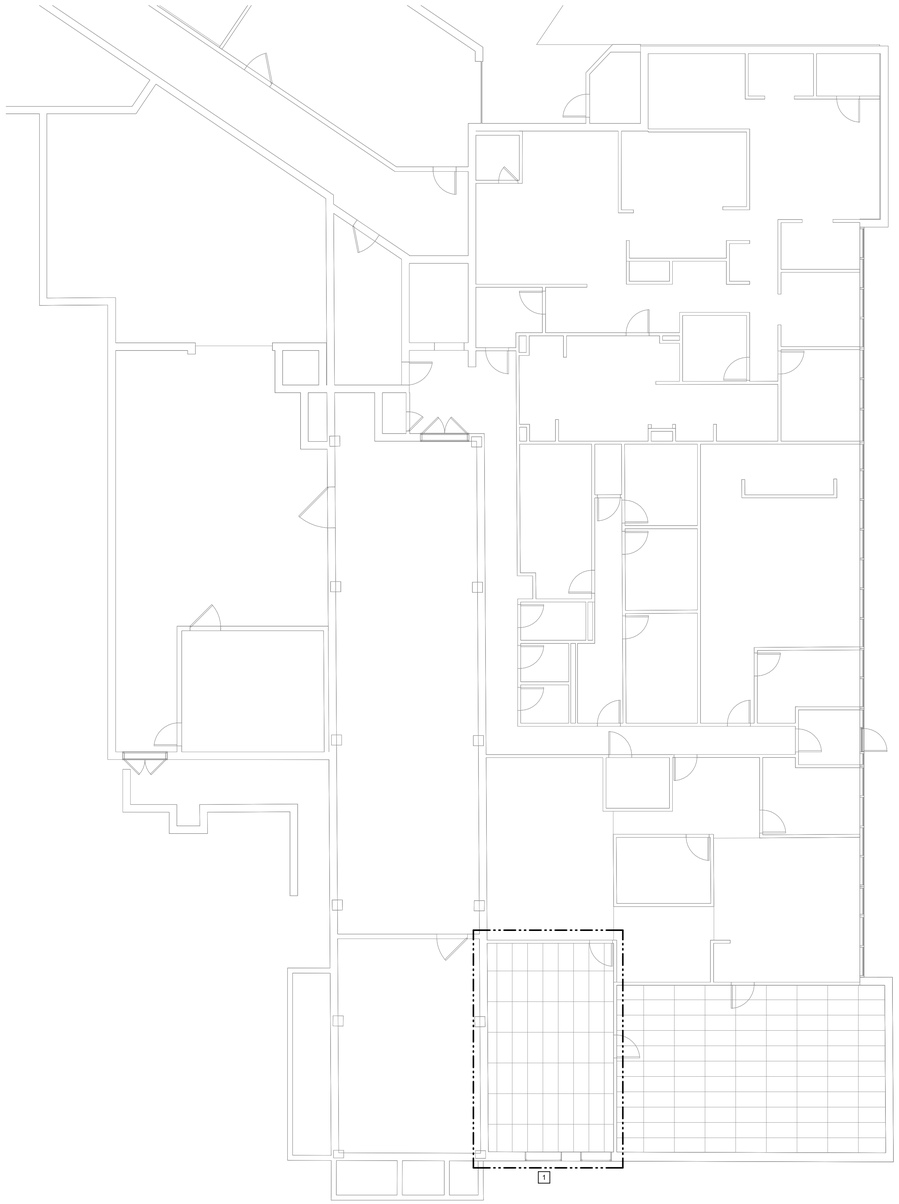
FIRE PROTECTION GENERAL NOTES:

1. REFER TO SHEET FP-001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL CONSTRUCTION NOTES.
2. THE LOCATIONS OF MAJOR FIRE PROTECTION EQUIPMENT AND PIPING ARE SHOWN FOR REFERENCE ONLY TO ASSIST IN BIDDING AND SPACE COORDINATION. FIRE PROTECTION CONTRACTOR SHALL DESIGN, LOCATE, AND PROVIDE ALL EQUIPMENT, SPRINKLERS, VALVES, PIPE ARRANGEMENTS, AND COORDINATE WITH OTHER TRADES TO MEET THE APPLICABLE CODES AND STANDARDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.

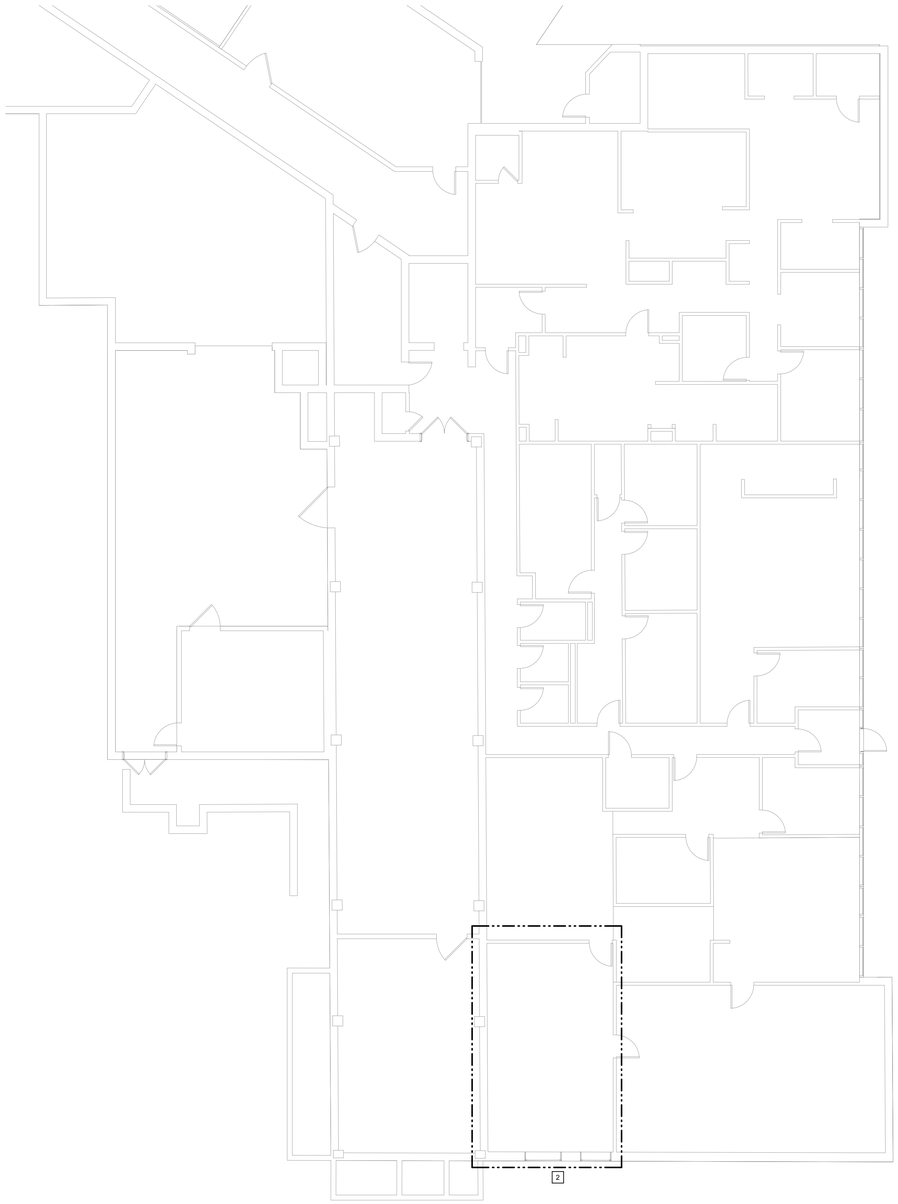
FIRE PROTECTION KEYED NOTES:

1 REMOVE EXISTING SPRINKLERS FOR REMOVAL OF EXISTING CEILING.

2 PROVIDE (4) NEW UPRIGHT SPRINKLERS IN EXISTING TAPS. NEW SPRINKLERS SHALL BE BY THE SAME MANUFACTURER.



FIRE PROTECTION PLAN - DEMO
SCALE: 1/8" = 1'-0"
NORTH



FIRE PROTECTION PLAN - RENO
SCALE: 1/8" = 1'-0"
NORTH

SSC Engineering
18207 Edison Avenue
Chesterfield, Missouri 63005
Phone: 636.530.7770
Missouri Certificate of Authority #001244

ARCHITECT:
LAWRENCE GROUP
www.thelawrencegroup.com
319 N. 4th Street, Suite 1000
St. Louis, MO 63102
P: 314.231.5700
F: 314.231.0816

CIVIL ENGINEER:
CROCKETT ENGINEERING CONSULTANTS
1000 W. Nifong Blvd., Bldg. 1
Columbia, Missouri 65203
(573) 447-0292
Missouri Certificate of Authority
#2000151301

STATE OF MISSOURI
JEREMY SCHUETTE
NUMBER PE-2014000082
PROFESSIONAL ENGINEER
7/8/25

THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

CP252301
Capital Region Medical Center
Switchgear Replacement
1125 Madison Street
Jefferson City, MO 65101

Capital Region MEDICAL CENTER
An Affiliate of Health Care
Better. Every day.

REVISIONS

PROJECT NO.	CP252301
DATE	07/08/25
DRAWN BY	JES
CHECKED BY	CWH

SHEET CONTENTS
FIRE PROTECTION PLAN

SHEET
FP-101

SSC JOB# 2024379 - BID SET 07/08/25