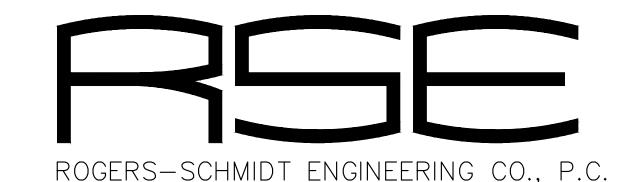
CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE ST. LOUIS FORENSIC TREATMENT CENTER - SOUTH ST. LOUIS, MISSOURI



CONSULTING ENGINEERS MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OWNER:

STATE OF MISSOURI MICHAEL L. PARSON,

GOVERNOR

DEPARTMENT OF MENTAL HEALTH

PROJECT

OFFICE OF ADMINISTRATION

MANAGEMENT:

DIVISION OF FACILITIES MANAGEMENT,

DESIGN AND CONSTRUCTION

DESIGNERS:

MECHANICAL/ELECTRICAL

ROGERS-SCHMIDT ENGINEERING CO., PC.

1736 WEST PARK CENTER DR.

SUITE 204

ST. LOUIS, MO 63026 PHONE: 636-600-1551

EMAIL: BFREINER@ROGERS-SCHMIDT.COM

STRUCTURAL

ABS CONSULTING

55 WESTPORT PLAZA, SUITE 700

ST. LOUIS, MO 63146

PROJECT NUMBER: M1908-01

SITE NUMBER:

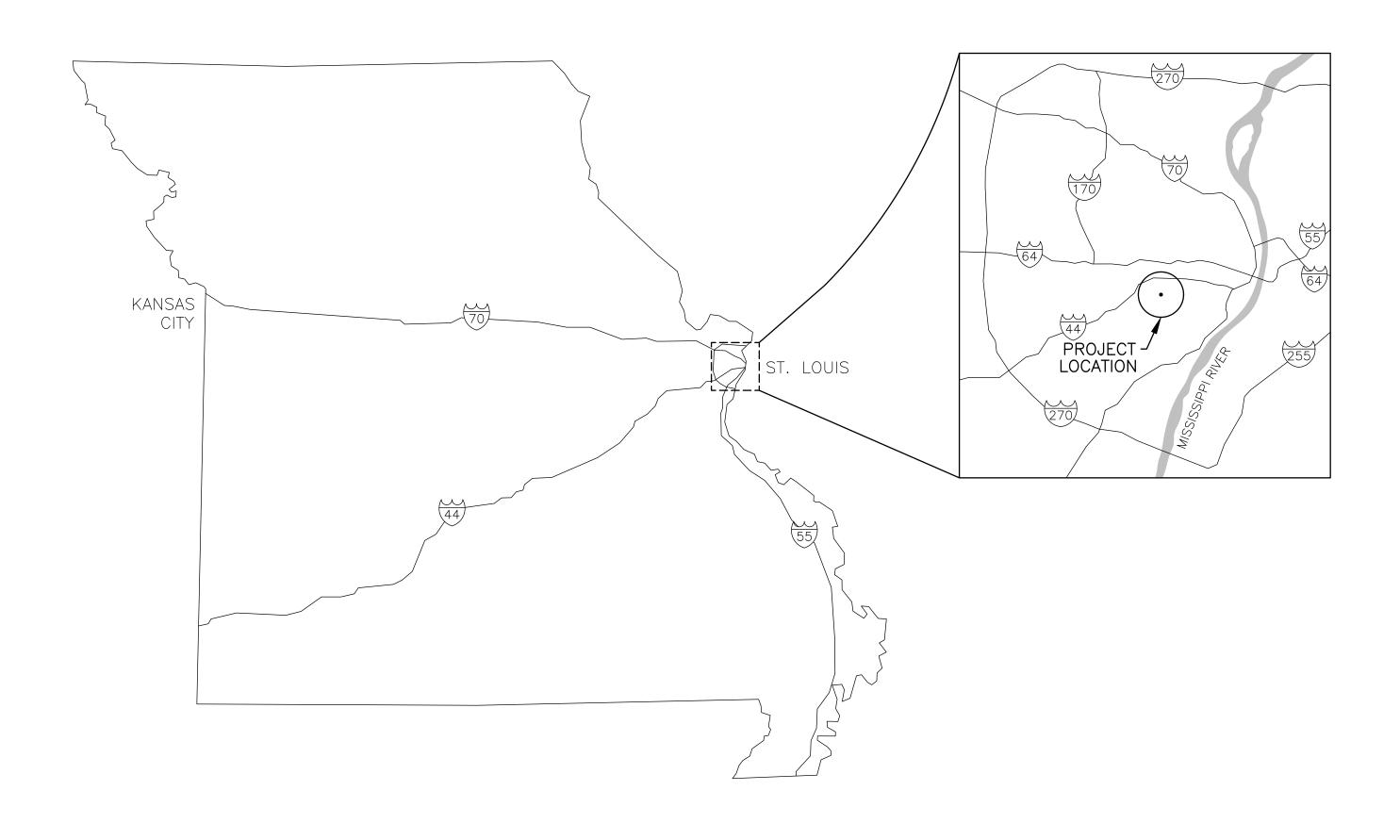
7355

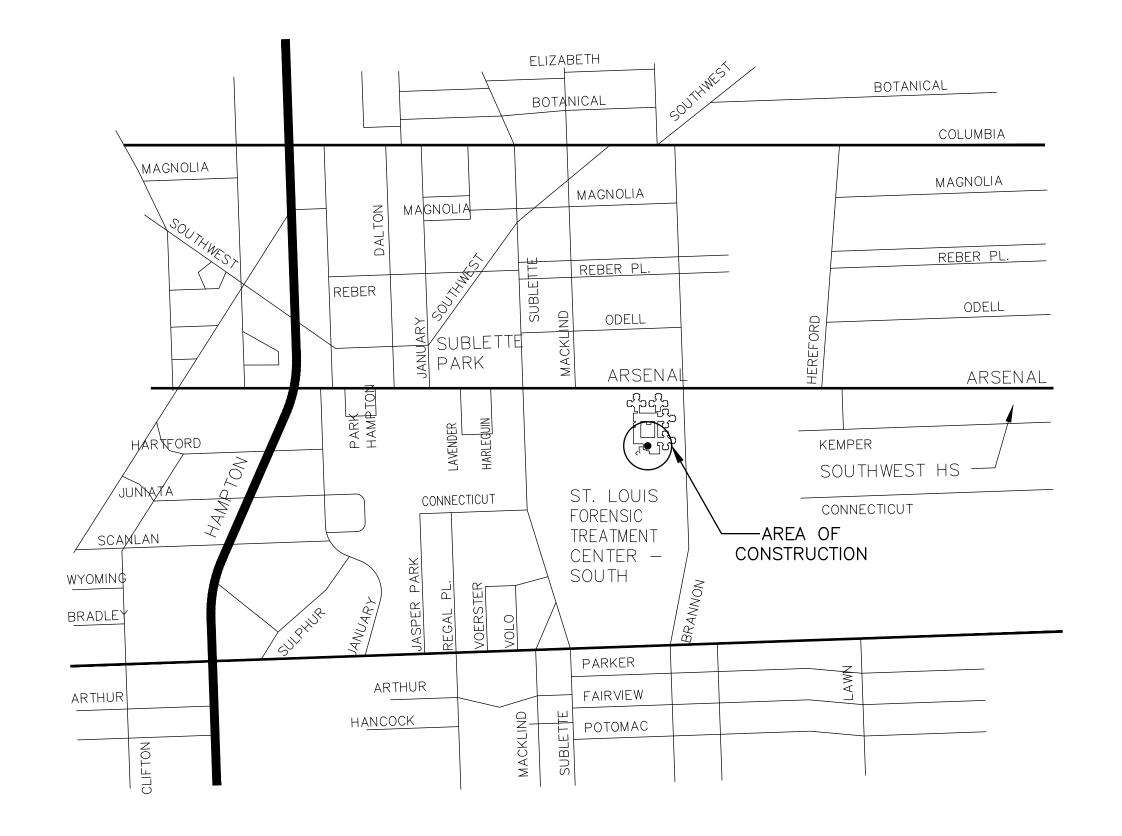
ASSET NUMBER:

6517335013

SHEET NUMBER:

OCTOBER 10, 2022





LOCATION MAP NO SCALE

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DRAWING INDEX DRAWING DRAWING DRAWING TITLE DRAWING TITLE NUMBER NUMBER G-001 COVER SHEET ED-601 ONE-LINE DIAGRAM - DEMOLITION G-002 SITE MAPS AND DRAWING INDEX G-003 CONSTRUCTION LIMITS, SCHEDULE & PHASING E-101 | ELECTRICAL PLAN - FIRST FLOOR - AREA C E-102 ELECTRICAL PLAN - FIRST FLOOR - AREA B S-100 GENERAL NOTES E-103 ELECTRICAL PLAN - SECOND FLOOR S-101 | SPECIAL INSPECTIONS & ABBREVIATIONS E-401 ENLARGED ELECTRICAL PLANS - FIRST FLOOR S-200 | GENERATOR FOUNDATION PLAN & SECTIONS E-501 | ELECTRICAL DETAILS MS-102 | MECHANICAL SITE PLAN - DEMOLITION & NEW WORK E-601 ONE-LINE DIAGRAM E-001 | ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES E-602 ONE-LINE DIAGRAM E-603 PANEL SCHEDULES - LIFE SAFETY BRANCH E-604 PANEL SCHEDULES - CRITICAL BRANCH ES-101 | ELECTRICAL SITE PLAN - DEMOLITION ES-102 ELECTRICAL SITE PLAN - NEW WORK E-605 PANEL SCHEDULES - CRITICAL BRANCH E-606 PANEL SCHEDULES - EQUIPMENT BRANCH E-607 PANEL SCHEDULES - EQUIPMENT BRANCH ED-101 | ELECTRICAL PLAN - DEMOLITION E-608 PANEL SCHEDULES - EQUIPMENT BRANCH ED-401 ENLARGED ELECTRICAL PLANS - DEMOLITION

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C.

CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01 SITE# 7355

FACILITY # 6517335013

REVISION: REVISION: DATE:

REVISION: DATE: ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-G-002.DWG

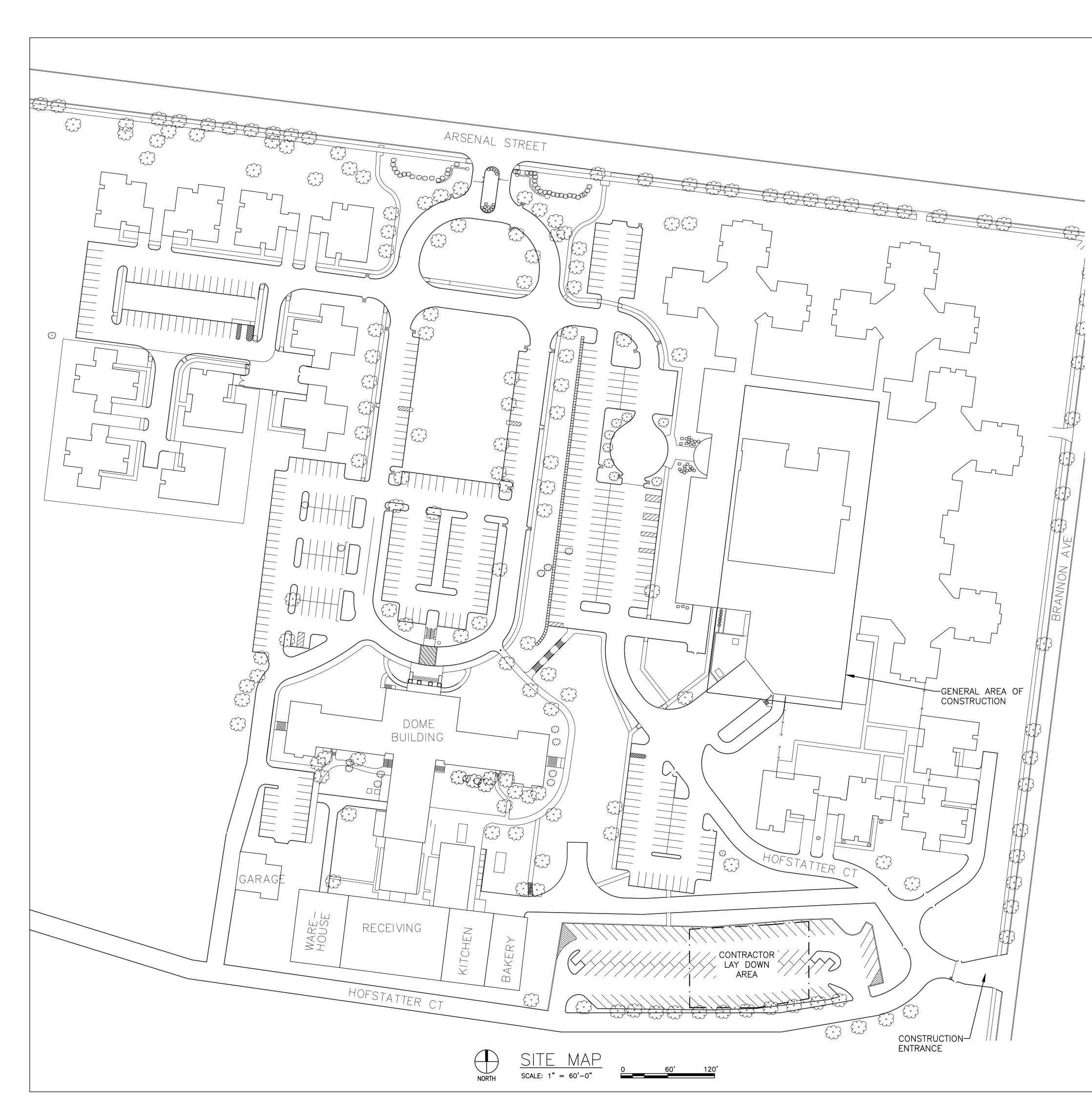
DRAWN BY: KET CHECKED BY: BDF

DESIGNED BY: BDF

SHEET TITLE:

SITE MAPS AND DRAWING INDEX

SHEET NUMBER:



PROJECT GENERAL NOTES:

- A. COORDINATE CONSTRUCTION FENCE, LAYDOWN AREA AND CONTRACTOR PARKING WITH CONSTRUCTION REPRESENTATIVE.
- B. LAYDOWN AREA SHALL BE APPROVED BY THE CONSTRUCTION REPRESENTATIVE & RESTORED TO ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE.
- C. CONTRACTOR SHALL NOT BLOCK ACCESS TO ANY MANHOLE OR VALVE
- D. USE RUBBER TIRE EQUIPMENT IN PLANTED AREAS.
- E. DO NOT STORE EQUIPMENT OR MATERIAL IN AREA OF TREES. PROTECT TREES FROM DAMAGE UNLESS NOTED OTHERWISE. TRIM TREES AS REQUIRED PRIOR TO CONSTRUCTION, SUBJECT TO APPROVAL OF CONSTRUCTION REPRESENTATIVE.
- INSTALL CONSTRUCTION FENCING AROUND THE DRIP LINES OF ALL TREES IN WORK AREAS.
- G. DOCUMENT EXISTING CONDITIONS WITH PHOTOGRAPHS PRIOR TO PROCEEDING.
- H. REPAIR ALL DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION TO SATISFACTION OF THE CONSTRUCTION REPRESENTATIVE. MATCH EXISTING CONSTRUCTION AND FINISH.
- COMPLY WITH THE INTERNATIONAL FIRE CODE INCLUDING THE REQUIREMENTS FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND FOR WELDING AND OTHER HOT WORK. MAINTAIN A HOT WORK PROGRAM PERMIT SYSTEM.
- . MINIMIZE HOT WORK WITHIN BUILDINGS.
- K. PROVIDE A FIRE WATCH FOR ALL DEMOLITION AND CONSTRUCTION HOT WORK (CUTTING, GRINDING, WELDING, SOLDERING, ETC.). MAINTAIN FIRE WATCH FOR AT LEAST 4 HOURS AFTER COMPLETION OF HOT WORK.
- L. IDENTIFY & PROTECT ALL CONSTRUCTION AREAS WITH SIGNS AND SAFETY BARRIERS TO THE SATISFACTION OF THE CONSTRUCTION REPRESENTATIVE.
- M. SECURE ALL CONSTRUCTION AREAS WITH BARRIERS & LOCKS AS REQUIRED TO PREVENT ACCESS BY RESIDENTS OR UNAUTHORIZED PERSONS AT ALL TIMES.
- N. SECURE ALL MECHANICAL & ELECTRICAL ROOMS WHEN UNOCCUPIED.
- O. SECURE ALL HAND TOOLS IN LOCKED TOOL BOXES & LOCK ALL EQUIPMENT WHEN NOT IN USE.
- P. ALL UNSECURED MATERIAL, TOOLS, ETC. MUST BE REMOVED FROM THE FACILITY AT THE END OF EACH WORK DAY.
- Q. AVAILABLE INFORMATION INDICATES PROJECT WORK AREAS HAVE BEEN ASBESTOS ABATED. FIELD VERIFY WITH ASBESTOS SURVEY OF APPLICABLE WORK AREAS PRIOR TO PROCEEDING.

CONSTRUCTION PHASING & SCHEDULING:

- 1. THE PROJECT SHALL BE COMPLETED AS NECESSARY TO PROVIDE UNINTERRUPTED OPERATION OF THE FACILITY. THE SEQUENCING, PHASING AND SCHEDULING OF ALL WORK SHALL BE DEPENDENT ON AND SUBJECT TO FACILITY OPERATIONS.
- 2. THE NATURE OF THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION BY CONTRACTOR WITH OWNER.
- 3. ALL WORK SHALL BE SCHEDULED WITH THE CONSTRUCTION REPRESENTATIVE AND BE SUBJECT TO THE FACILITY'S APPROVAL PRIOR TO PROCEEDING.
- 4. THE PROJECT REQUIRES OUTAGES TO BUILDING SYSTEMS. CONTRACTOR SHALL COMPLETE ALL RELATED WORK TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO THE START OF OUTAGES. CONTRACTOR SHALL HAVE ALL REQUIRED MATERIALS ON SITE PRIOR TO START OF OUTAGES.
- 5. TIE-INS TO BUILDING SYSTEMS SHALL BE MADE DURING APPROVED OUTAGES AND WORK SHALL BE DONE AROUND-THE-CLOCK UNTIL THE TIE-IN IS COMPLETED.
- 6. PROVIDE A TEMPORARY GENERATOR FOR ANY POWER OUTAGE LONGER THAN 4 HRS TO AVOID THE OWNER HAVING TO CONDUCT FIRE WATCHES IN AREAS WHERE FIRE PROTECTION, FIRE ALARM, DEDICATED TELEPHONE, OR EMERGENCY MANAGEMENT SYSTEMS WILL BE OUT OF SERVICE DUE TO THE POWER OUTAGE.
- 7. OUTAGES SHALL BE COORDINATED WITH THE CONSTRUCTION REPRESENTATIVE AND ARE WEATHER DEPENDENT. CONTRACTOR SHALL NOTIFY CONSTRUCTION REPRESENTATIVE TWO (2) WEEKS IN ADVANCE OF DESIRED OUTAGE TIME. CONSTRUCTION REPRESENTATIVE WILL GIVE CONTRACTOR 72 HOURS ADVANCE NOTICE OF ACTUAL TIME FOR OUTAGE.
- 8. OUTAGES SHALL BE COMPLETED DURING ACCEPTABLE WEATHER CONDITIONS (50°F TO 80°F OUTDOOR AIR TEMPERATURE), UNLESS APPROVED OTHERWISE BY CONSTRUCTION REPRESENTATIVE.
- 9. LIMIT EMERGENCY GENERATOR (EG) REPLACEMENT OUTAGE TO NO MORE THAN 20 WORKING DAYS. EG SHALL BE FULLY OPERATIONAL WITHIN 20 WORKING DAYS OF START OF EG OUTAGE. PROVIDE ≥500kW TEMPORARY EG DURING THE PERIOD OF TIME THE FACILITY'S EG IS OUT OF SERVICE.
- 10. ALL SITE CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 7:00 AM TO 3:30 PM ON MONDAY THRU FRIDAY, UNLESS APPROVED OTHERWISE IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.
- 11. NO WORK IS TO TAKE PLACE ON WEEKENDS OR STATE OBSERVED HOLIDAYS UNLESS APPROVED IN WRITING IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2022

ROGERS-SCHMIDT
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ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET

PROJECT # M1908-01

ST. LOUIS, MO 63139

SITE # 7355 FACILITY # 6517335013

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CAD DWG FILE: M1908-01-7355-6517335013-G-003.DWG

DRAWN BY: KET

CHECKED BY: BDF

DESIGNED BY: BDF

SHEET TITLE:

CONSTRUCTION
LIMITS, SCHEDULE,
& PHASING

SHEET NUMBER:

G-003

DIVISION 1 - GENERAL REQUIREMENTS

- 1.1 CONSTRUCTION MEANS AND METHODS
- A. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR ENGINEER.
- B. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER WILL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- C. ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.
- D. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.
- E. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR. REFER TO DIV.1 SECTION 1.4 PAR H FOR ADDITIONAL REQUIREMENTS.
- F. PRIOR TO COMMENCING WITH REMOVAL OF EXISTING SOIL OR CONCRETE, CONTRACTOR
- 1. REVIEW THE EFFECT OF SOIL OR CONCRETE REMOVAL ON THE INTEGRITY OF THE EXISTING STRUCTURE AND EXISTING UTILITIES TO AVOID/PREVENT INSTABILITY AND/OR INTERRUPTION OF FUNCTION AND SERVICE.
- 2. PROVIDE SHORING OF EXISTING STRUCTURAL MEMBERS AND TEMPORARY SUPPORT AND/OR PROTECTION OF ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING (I.E. AMEP) COMPONENTS AS NECESSARY FOR MEMBERS AND COMPONENTS TO REMAIN IN PLACE AND/OR IN SERVICE DURING CONSTRUCTION.
- 3. TEMPORARILY RELOCATE AND/OR REMOVE AND REINSTALL AMEP COMPONENTS AS REQUIRED FOR STRUCTURAL REPAIRS AND INSTALLATION OF THE WORK. SUBMIT PLAN AND/OR LIST OF ITEMS WITH LOCATIONS OF ITEMS TO BE TEMPORARILY RELOCATED AND/OR REMOVED AND REINSTALLED TO OWNER'S REPRESENTATIVE FOR REVIEW AND COORDINATION PRIOR TO PERFORMING WORK. REINSTALL COMPONENTS AS SHOWN ON DRAWINGS AND/OR IN ACCORDANCE WITH CURRENT BUILDING CODE REQUIREMENTS OF THE CITY OF ST. LOUIS, MISSOURI.
- 4. DEMOLISH AND REMOVE EXISTING AMEP COMPONENTS SHOWN TO BE REMOVED ON DRAWINGS AND/OR DETERMINED TO BE ABANDONED IN PLACE. SUBMIT PLAN AND/OR LIST OF ITEMS WITH LOCATIONS OF ABANDONED COMPONENTS AND COMPONENTS TO BE DEMOLISHED TO APPROPRIATE OWNER'S REPRESENTATIVE FOR REVIEW AND COORDINATION PRIOR TO PERFORMING WORK.
- 5. INSTALL TEMPORARY CONSTRUCTION BARRIERS AS REQUIRED TO PREVENT UNAUTHORIZED ACCESS TO THE CONSTRUCTION SITE AND FOR PROTECTION OF PERSONNEL AND VEHICLES.
- 1.2 JOB CONDITIONS
- A. THESE DRAWINGS HAVE BEEN PREPARED BASED SOLELY ON INFORMATION GATHERED IN THE FIELD AND FROM AVAILABLE EXISTING ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND INFORMATION SHOWN ON DRAWINGS BEFORE AND DURING THE COURSE OF WORK ON THIS PROJECT.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE EXECUTION OF THE WORK.
- C. THE JOBSITE IS AN OPERATING FACILITY AND AS SUCH, EVERY EFFORT SHALL BE TAKEN TO ENSURE MINIMAL INTERRUPTION TO NORMAL OPERATIONS.
- D. NO WORK THAT WILL PRODUCE EXCESSIVE NOISE, DUST, DEBRIS AND/OR FUMES SHALL BE PERFORMED WITHOUT OWNER PRIOR APPROVAL. IF PERMITTED BY OWNER OR MANAGER, ALL WORK THAT WILL PRODUCE EXCESSIVE NOISE, DUST, DEBRIS AND/OR FUMES SHALL BE COORDINATED AT TIMES ACCEPTABLE WITH MANAGEMENT (OWNER). ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE DAILY UNLESS SPECIFICALLY APPROVED IN ADVANCE BY OWNER.
- 1. EXISTING VENTILATION INTAKES FOR THE BUILDING ARE IN VARIOUS LOCATIONS. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL AIR INTAKES FOR THE BUILDING AND PLAN AND COORDINATE ALL SMOKE-, DUST-, FUME-, AND ODOR-PRODUCING WORK TO PREVENT THESE AIR-BORNE PARTICLES OR GASSES FROM BEING PULLED INTO ANY OF THESE AIR INTAKES.
- E. COORDINATE WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF SIDEWALKS, PARKING SPACES OR DRIVE LANES WITH THE OWNER.
- 1. PROVIDE AND INSTALL TRAFFIC CONTROL SIGNALS AS REQUIRED TO COORDINATE WITH OWNER'S PERSONNEL ACCESS TO PARKING AREAS NOT CURRENTLY UNDER CONSTRUCTION DURING THE VARIOUS PROJECT PHASES.
- F. CONTRACTOR SHALL COORDINATE AND SUBMIT TO OWNER IN WRITING ALL CONNECTIONS TO, AND USE OF, EXISTING UTILITIES FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- G. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY UTILITIES NOT PROVIDED BY OWNER. OBSTRUCTIONS, EXTENSION CORDS AND HOSES ARE NOT PERMITTED IN AREAS TRAVELED BY OWNER'S OR MANAGER'S EMPLOYEES OR THE PUBLIC EXCEPT DURING HOURS SPECIFIED BY OWNER.

- 1.3 SUBMITTALS
- A. CONTRACTOR SHALL REVIEW SUBMITTALS PREPARED BY SUBCONTRACTORS PRIOR TO SUBMITTING TO ENGINEER.
- B. PRODUCT DATA: FOR EACH TYPE OF MANUFACTURED MATERIAL AND PRODUCT INDICATED IN CONSTRUCTION DOCUMENTS.
- C. MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE WITH REQUIREMENTS INDICATED, BASED ON COMPREHENSIVE TESTING OF CURRENT MATERIALS.
- D. SHOP DRAWINGS: FOR EACH STRUCTURAL COMPONENT AS INDICATED ON CONSTRUCTION DOCUMENTS.
- E. WARRANTIES: SUBMIT MANUFACTURER'S AND INSTALLER'S SAMPLE WARRANTIES FOR EACH TYPE OF MANUFACTURED MATERIAL AND PRODUCT INDICATED IN CONSTRUCTION DOCUMENTS.
- F. ALL SUBMITTALS REVIEWED BY ENGINEER ARE REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. ANY ACTION INDICATED IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING AND CONFIRMING DIMENSIONS AT THE JOB SITE, CHOICE OF FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION AND COORDINATION OF THE WORK WITH THAT OF OTHER TRADES.
- G. THE CONTRACTOR SHALL REVIEW AND APPROVE THE SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING THEM FOR REVIEW BY THE ENGINEER.
- 1. THE CONTRACTOR SHALL PROVIDE ELECTRONIC PDF FILES OF SHOP DRAWINGS AND SUBMITTALS TO THE ENGINEER AND ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW PRIOR TO FABRICATION.
- 1.4 QUALITY ASSURANCE
- A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- B. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEET THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS UNLESS OTHERWISE NOTED.
- C. THESE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.
- D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ENGINEER, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO ENGINEER OR ANY OF ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
- E. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. DO NOT PROCEED WITH PERFORMING THE WORK UNTIL A WRITTEN RESPONSE IS RECEIVED FROM ENGINEER.
- F. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK.
- G. DETAILS LABELED "TYPICAL" ON CONTRACT DOCUMENTS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.
- H. CONTRACTOR DESIGNED ELEMENTS SHALL BE PREPARED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE STATE WHERE PROJECT IS LOCATED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. THE LICENSED PROFESSIONAL ENGINEER SHALL SEAL AND SIGN ALL DOCUMENTS NOTED. IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED AND INSTALLED:
- 1. TEMPORARY BRACING AND SHORING
- A. SHORING DESIGN SHALL PREVENT OVERLOAD OF SUPPORTING STRUCTURAL ELEMENTS AND LOSS OF SOIL SUPPORT FROM BENEATH SUPPORTED FOUNDATIONS. REFER TO REFERENCE DRAWINGS FOR AVAILABLE INFORMATION ON EXISTING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SHORING DESIGN AND INSTALLATION.
- 2. TEMPORARY DUST, DEBRIS AND NOISE PROTECTION
- A. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL VERTICAL PARTITIONS AND HORIZONTAL MEMBRANE BARRIERS REQUIRED TO PREVENT MATERIALS AND EXTERIOR ATMOSPHERIC CONDITIONS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES FROM ENTERING, NEGATIVELY IMPACTING AND/OR DAMAGING OWNER-OCCUPIED SPACES AND EQUIPMENT.
- B. CONTRACTOR SHALL PROVIDE ALL BARRIERS AND FILTERED VENTILATION EQUIPMENT REQUIRED TO COMPLY WITH OSHA RESPIRABLE CRYSTALLINE SILICA REGULATIONS AT BOTH THE STRUCTURE INTERIOR AND EXTERIOR.
- 3. TEMPORARY WEATHER PROTECTION
- I. SEE DIVISION 1 SPECIFICATIONS FOR ADDITIONAL GENERAL REQUIREMENTS.

1.5 STATEMENT OF SPECIAL INSPECTIONS

- A. STRUCTURAL INSPECTIONS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE.
- 1. THE CONTRACTOR SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705.
- A. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- B. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE CODE.
- B. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR, AND IF NOT CORRECTED, SHALL BE REPORTED TO BUILDING OFFICIAL, OWNER, ARCHITECT, AND STRUCTURAL ENGINEER.
- C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

D. CONTRACTOR RESPONSIBILITY

- 1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR WIND OR SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT.
- 2. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING
- A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
- B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS
- D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

E. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

- 1. DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SDC D.
- A. PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC MATERIALS.
- B. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS.
- 2. STEEL CONSTRUCTION: REFER TO SECTION 1705.2 AND THE ATTACHED TABLE.
- 3. CONCRETE CONSTRUCTION: REFER TO SECTION 1705.3 AND THE ATTACHED
- 4. SOILS: REFER TO SECTION 1705.6 AND THE ATTACHED TABLE

1.6 DESIGN CRITERIA:

A. THE EMERGENCY GENERATOR SUPPORT STRUCTURE AND ANCHORAGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, IBC, 2018 EDITION.

B. GRAVITY LOADS:

- 1. DESIGN IS BASED ON THE CAT C32 DIESEL GENERATOR SET HAVING A DRY WEIGHT OF 14,700 LBS, AN ENCLOSURE WEIGHT OF 5,600 LBS AND A FILLED FUEL TANK WEIGHT OF 24,500 LBS. WITH 20% INCREASE FOR IMPACT AND A 10% INCREASE FACTOR TO ALLOW FOR A HEAVIER GENERATOR SET FROM AN ALTERNATE MANUFACTURER.
- C. LATERAL LOADS:
- WIND LOADS FOR OTHER STRUCTURES
- A. RISK CATEGORY: IV
 B. IMPORTANCE FACTOR: 1.0
- C. BASIC WIND SPEED: 120 MPH
- D. WIND DIRECTIONALITY FACTOR: 0.9
- E. EXPOSURE: B
 F. TOPOGRAPHIC FACTOR: 1.0
 G. GUST-EFFECT FACTOR: 0.85
- H. VELOCITY PRESSURE EXPOSURE COEFFICIENT: 0.57
 I. VELOCITY PRESSURE: 18.9 PSF
- J. FORCE COEFFICIENT: 1.3
- K. DESIGN WIND PRESSURE: 20.9 PSF
- EARTHQUAKE LOAD:A. RISK CATEGORY: IV
- B. MAPPED SPECTRAL ACCELERATION AT SHORT PERIODS, SD: 0.446G
 C. MAPPED SPECTRAL ACCELERATION AT 1 SECOND, S1: 0.160G
- D. DESIGN SPECTRAL ACCELERATION AT SHORT PERIODS, SDS: 0.429G
- E. DESIGN SPECTRAL ACCELERATION AT 1-SECOND, SD1: 0.243G F. IMPORTANCE FACTOR: 1.5
- G. SITE CLASS: D H. SEISMIC DESIGN CATEGORY: D
- I. COMPONENT TYPE: VIBRATION ISOLATED COMPONENTS
- J. COMPONENT AMPLIFICATION FACTOR, AP: 2.5
- K. COMPONENT RESPONSE MODIFICATION FACTOR, RP: 2.0
- L. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

DIVISION 2 – GEOTECHNICAL

2.1 GENERAL

- A. BEARING CAPACITY OF EXISTING FOUNDATIONS IS STATED IN STRUCTURAL NOTES ON DRAWING S0.1 OF ORIGINAL CONSTRUCTION DRAWINGS BY BOOKER ASSOCIATES DATED 3-1-1994, AS FOLLOWS:
- 1. MAXIMUM STATIC BEARING PRESSURE OF 2.5 KSF FOR COLUMN FOOTINGS AND 2.0 KSF FOR WALL FOOTINGS.
- B. CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL CERTIFY THE BEARING MEDIUM AND FILL COMPACTION.
- C. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
- 2.2 BRACING AND SHORING
- A. CONTRACTOR SHALL DESIGN SHORING OF EXISTING CONSTRUCTION AND PROTECT EXISTING FOUNDATIONS OR SIDEWALKS BEARING ON SOIL ADJACENT TO EXCAVATIONS AS REQUIRED TO PREVENT LOSS OF BEARING SUPPORT AND SETTLEMENT.
- 2.3 EXCAVATION
- A. REMOVE EXISTING SITE FILL MATERIALS AS SPECIFIED IN SECTION 311000 SITE CLEARING.
- 2.4 FILL
- A. PROVIDE AND INSTALL FILL MATERIAL AS SPECIFIED IN SECTION 312000 EARTH MOVING.

DIVISION 3 - REINFORCED CONCRETE

3.1 SUMMARY

A. THIS SECTION INCLUDES CAST-IN-PLACE CONCRETE, INCLUDING FORMWORK, REINFORCEMENT, CONCRETE MATERIALS, MIX DESIGN,, PLACEMENT PROCEDURES, FINISHES, AND CURING.

3.2 GENERAL

- A. PERFORM CONCRETE WORK IN ACCORDANCE WITH THE FOLLOWING DIVISION 3 SPECIFICATION SECTIONS:
- 1. SECTION 031000 CONCRETE FORMING AND ACCESSORIES
- 2. SECTION 032000 CONCRETE REINFORCEMENT

3. SECTION 033000 - CAST-IN-PLACE CONCRETE

DIVISION 4 - CONCRETE MASONRY - NOT USED

DIVISION 5 - METALS

5.1 STRUCTURAL STEEL

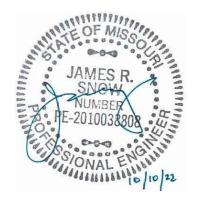
- A. GENERAL
- 1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND RCSC (2014) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS".
- 2. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE.
- A. ANCHOR RODS ASTM F1554, GRADE 36 WITH ASTM F436 WASHERS AND ASTM A563 HEAVY HEX NUTS
- 3. ANCHOR BOLTS: INSTALL ANCHOR BOLTS AND OTHER CONNECTORS REQUIRED FOR SECURING STRUCTURAL STEEL TO FOUNDATIONS AND OTHER IN-PLACE WORK. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING BOLTS AND OTHER ANCHORS TO ACCURATE LOCATIONS.

DIVISION 6 - WOOD - NOT USED

DIVISION 7 - THERMAL AND MOISTURE PROTECTION - NOT USED

END OF STRUCTURAL GENERAL NOTES

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JAMES R. SNOW
Registered Professional Engineer
MO # PE- 2010038808
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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

FACILITY # 6517335013

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
DATE:

ISSUE DATE: 10-10-2022

CAD DWG FILE: M1908-01-7355-6517335013- S-100.DWG

DRAWN BY: CPG
CHECKED BY: JRS

SHEET TITLE:

GENERAL NOTES

DESIGNED BY: SHS

SHEET NUMBER:

|S-100|

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

	SPECIAL IN	SPECTION	1	
TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD	2018 IBC REFERENCE
Inspect reinforcement, including prestressing tendons, and verify placement.	-	Х	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706;	-	Х	AWS D1.4,	_
b. Inspect single-pass fillet welds, maximum 5/16"; and		X	ACI 318: 26.6.4	
c. Inspect all other welds.3. Inspection of anchors installed in hardened	X			
concrete.	-	Х	ACI 318: 17.8.2	-
 4. Inspect anchors post-installed installed in hardened concrete members. b a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a. 	х	×	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
c. The special inspector shall be on the jobsite initially during anchor installation to verify anchor or dowel type, anchor or dowel dimensions, concrete type, concrete compressive strength, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete thickness, anchor or dowel embedment, and tightening torque.		X	ACI 318: 17.8.2	
d. The special inspector must verify the initial installations of each type and size of anchor by construction personnel on site. Subsequent installations of the same anchor type and size by the same construction personnel may be permitted to be performed in the absence of the special inspector.		х	ACI 318: 17.8.2	
e. Any change in the anchor product being installed or the personnel performing the installation must require an initial inspection.		Х	ACI 318: 17.8.2	
Verify use of required design mix.	-	Х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C 172, ASTM C 31, ACI 318: 26.5, 26.12	1908.10
Inspect concrete and shotcrete placement for proper application techniques.	Х	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
Verify maintenance of specified curing temperature and techniques.	-	Х	ACI 318: 26.5.5-26.5.5	1908.9
Inspect prestreesed concrete for: a. Application of prestressing force, and b. Grouting of bonded prestressing tendons	X X	-	ACI 318: 26.10	-
10. Inspect erection of precast concrete	-	Х	ACI 318: Ch. 26.9	-
Verify of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	Х	ACI 318: 26.11.2	-
12 Inspect formwork for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 26.11.1.2(b)	-

For SI: 1 inch = 25.4 mm.

- a. Where applicable, see also Section 1705.12, Special inspections for seismic resistance.
- b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

	CONTINUOUS	PERIODIC
	SPECIAL	SPECIAL
TYPE	INSPECTION	INSPECTION
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	Х
2. Verify excavations are extended to proper depth and have reached proper material.	-	Х
3. Perform classification and testing of compacted fill materials.	-	Х
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Х	-
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	Х

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL CONSTRUCTION

	SPECIAL	INSPECTION	
TYPE	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1.Material verification of high-strength bolts, nuts and washers:			
 a. Identification markings conforming to ASTM standards 		X	Applicable ASTM material
specified in the approved construction documents.			specifications; AISC 360,
 b. Manufacturer's certificate of compliance required. 	-	Χ	Section A3.3, N5.1, N5.2



1 = SECTION NO. 2 = SHEET WHERE SECTION IS DRAWN SECTION SYMBOL

LIST OF ABBREVIATIONS

LLV

LONG LEG VERTICAL

LOW POINT

AB	ANCHOR BOLT	MAS	MASONRY
ADDNL	ADDITIONAL	MAX	MAXIMUM
ADH	ADHESIVE	MC	MOMENT CONNECTION
AFF	ABOVE FINISH FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MEZZ	MEZZANINE
ANCH	ANCHOR, ANCHORAGE	MFR	MANUFACTURER
APPROX	APPROXIMATE	MID	MIDDLE
ARCH	ARCHITECT	MIN MISC	MINIMUM MISCELLANEOUS
В	ВОТТОМ	MISC	MISCELLANEOUS
B/	BOTTOM OF	(N)	NEW
BAL	BALANCE	NF	NEAR FACE
BL	BRICK LEDGE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NS	NEAR SIDE
BLKG	BLOCKING	NTS	NOT TO SCALE
BM	BEAM		
BMD	BOTTOM OF METAL DECK	00	OUT TO OUT
BOT	BOTTOM	OC	ON CENTER
BP	BOTTOM OF PIER	OD	OUTSIDE DIAMETER
BRG	BEARING	OPNG	OPENING
BT		OPP	
	BENT		OPPOSITE HAND
BTWN	BETWEEN	OPP.HAND, OH	OPPOSITE HAND
CI	CONSTRUCTION OF CONTROL IOINT	D NAII	DNELIMATIC NAII
CJ	CONSTRUCTION OR CONTROL JOINT		PNEUMATIC NAIL
CL	CENTER-LINE	P/C	PRECAST
CLR	CLEAR	PC	PIER CAP, PILE CAP
CMU	CONCRETE MASONRY UNIT	PL	PLATE
COL	COLUMN, COLUMNS	PLYWD	PLYWOOD
CONC	CONCRETE	PREFAB	PREFABRICATED
CONN	CONNECT, CONNECTION	PSF	POUND PER SQUARE FOOT
CONST	CONSTRUCTION	PSI	POUND PER SQUARE INCH
CONT	CONTINUE, CONTINUOUS	PT	POINT
CONTR	CONTRACTOR		
COR	CHANGE ORDER REQUEST	RAD	RADIUS
CTR	CENTER		
		REF	REFER, REFERENCE
DBA	DEFORMED BAR ANCHOR	REINF	REINFORCING OR REINFORCEME
DEG	DEGREE	REQD	REQUIRED
DIA	DIAMETER	RTU	ROOF TOP UNIT
DIAG	DIAGONAL		
DL	DEAD LOAD	SOG	SLAB-ON-GRADE
DN	DOWN	SS	STAINLESS STEEL
DWG	DRAWING	SCHED	SCHEDULE
DWL	DOWEL	SFOR	STRUCTURAL FIELD OBSERVATIO
			REPORT
EA	EACH	SECT	SECTION
EF	EACH FACE	SHT	SHEET
EJ	EXPANSION JOINT	SHTMTL	SHEET METAL
EL			
	ELEVATION	SIM	SIMILAR
EMBED, EMB	EMBEDMENT	SP	SPECIAL
ENG	ENGINEER	SPA	SPACE
EQ	EQUAL	SPEC	SPECIFICATIONS
EW	EACH WAY	SQ	SQUARE
(E)	EXISTING	STD	STANDARD
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	STL	STEEL
		STRUC	STRUCTURAL
FDN	FOUNDATION	SW	SHEAR WALL
FF	FAR FACE	SYM	SYMMETRICAL
FIN	FINISH, FINISHED		
FLG	FLANGE	T	TOP
FLR	FLOOR	T/	TOP OF
FRP	FIBER-REINFORCED POLYMER	T/PC	TOP OF PIER CAP
FS	FAR SIDE	T&B	TOP & BOTTOM
FTG	FOOTING	TBR	TO BE REMOVED
		TC	TOP OF CONCRETE
GA	GAUGE	TERM	TERMINATION
GALV	GALVANIZED	TF	TOP OF FOOTING
GB	GRADE BEAM	THD	THREAD, THREADED
GLB	GLUE-LAMINATED BEAM	THK	THICK, THICKNESS
GR	GRADE	TM	TOP OF MASONRY
JI.	SINDL		
		TOS	TOP OF STAB
		TS	TOP OF STEEL
HD	HEADED	TW	TOP OF WALL
HK	HOOK	TYP	TYPICAL
HORIZ, HOR	HORIZONTAL		
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	VIF	VERIFY IN FIELD
INFO	INFORMATION	VB	VERTICAL BRACE
INT	INTERIOR	VT OR VERT	VERTICAL, VERTICALLY
		SIX FEIXI	
	JOIST	w/	WITH
JST	50101	WAS	WELDED ACHOR STUD
	IOINT	VVAO	
	JOINT	\A/D	MOOD
JT		WD	WOOD
JT	JOINT KNEE BRACE	WF	WIDE FLANGE
JT			
JST JT KB LG		WF	WIDE FLANGE
JT KB	KNEE BRACE	WF WWF	WIDE FLANGE WELDED WIRE FABRIC

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GOVE	RNOR		
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STATE OF MISSOURI

JAMES R. SNOW
Registered Professional Engineer
MO # PE- 2010038808
Expires 12-31-2022

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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

FACILITY # 6517335013

REVISION:

DATE:

REVISION:

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DATE:

ISSUE DATE: 10-10-20

ISSUE DATE: <u>10-10-2022</u> CAD DWG FILE: M1908-01-7355-

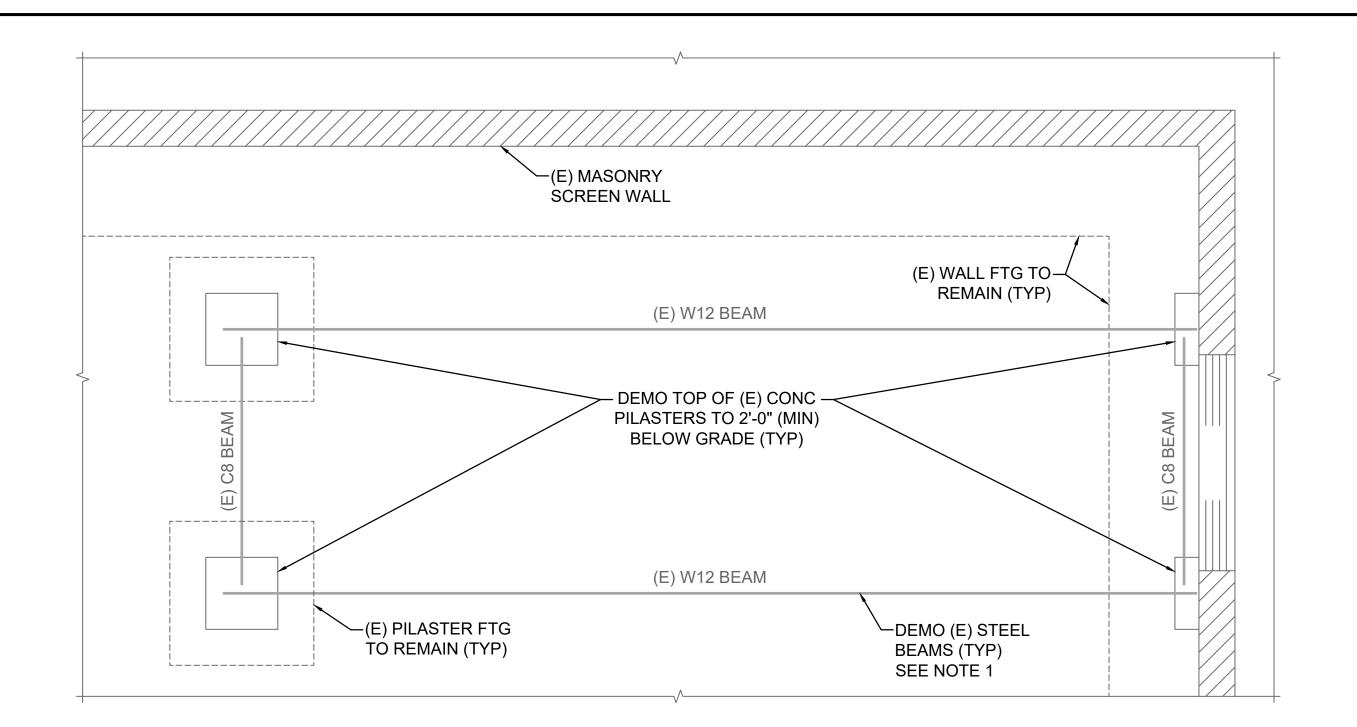
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6517335013- S-101.DWG

DRAWN BY: CPG
CHECKED BY: JRS
DESIGNED BY: SHS

SHEET TITLE:
SPECIAL
INSPECTIONS &
ABBREVIATIONS

SHEET NUMBER:

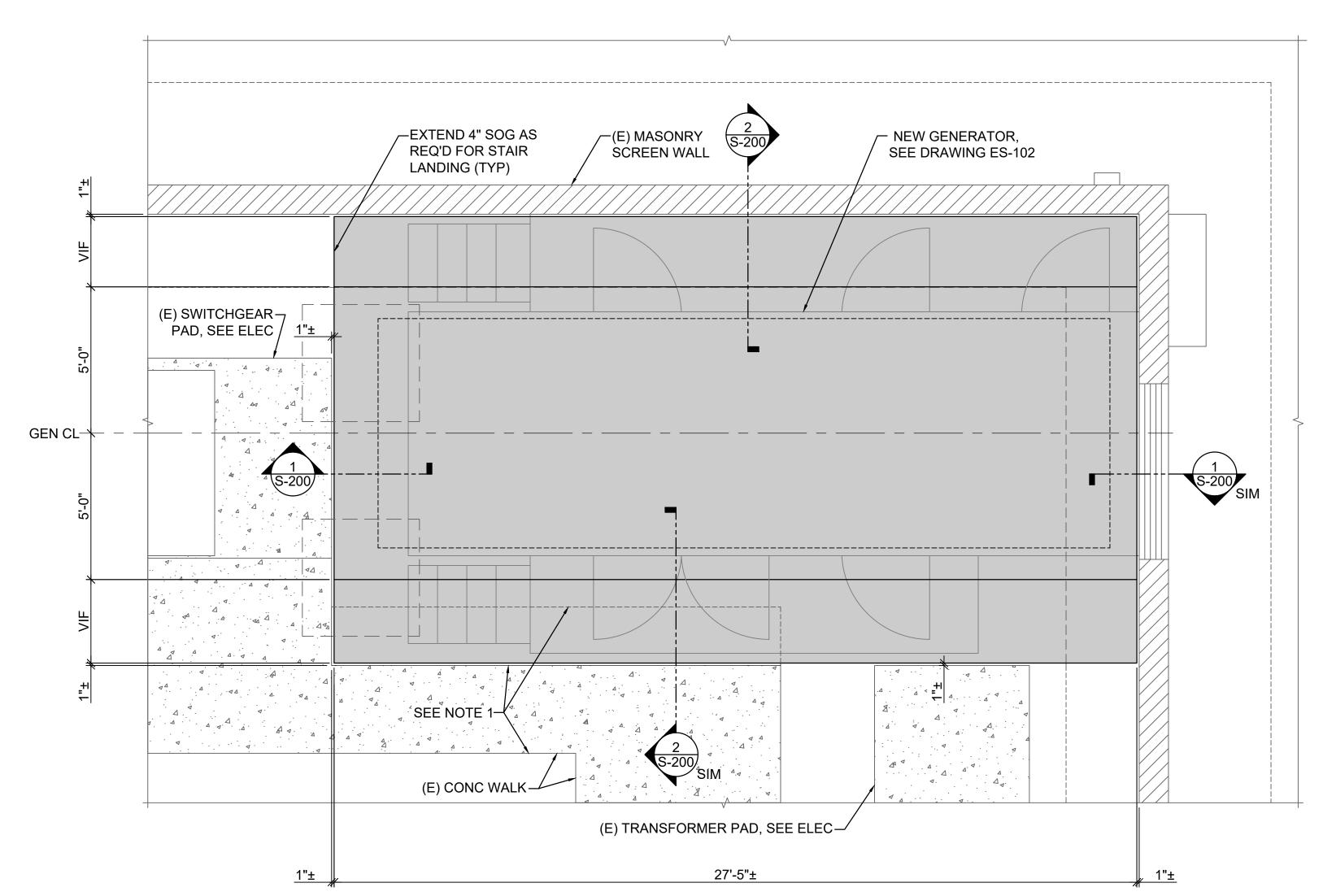
S-10



DEMOLITION PLAN SCALE: 3/8"=1'-0"

007 (22. 070

1. SALVAGE ALL STEEL BEAMS UNDER EXISTING GENERATOR SET & TURN OVER TO OWNER PER SPECIFICATION SECTION 024119

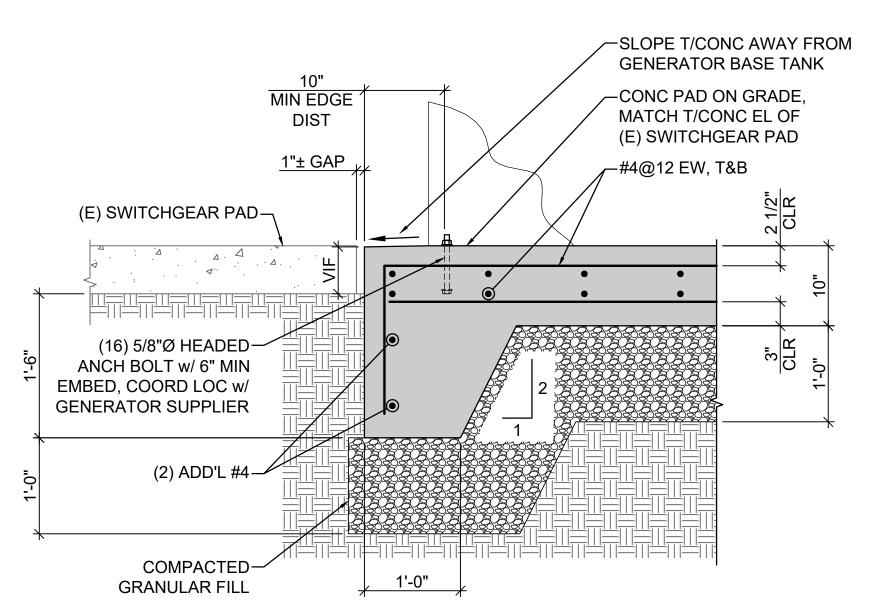


GENERATOR FOUNDATION PLAN

SCALE: 3/8"=1'-0"

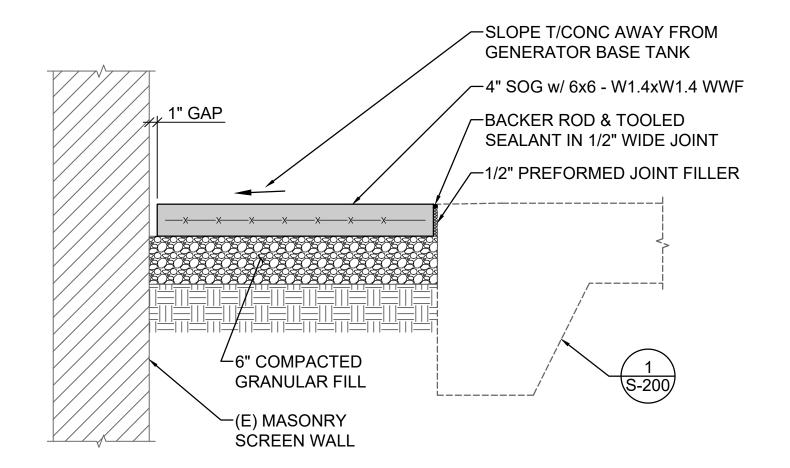
NOTE:

1. REMOVE & REPLACE (E) CONCRETE WALK AS REQUIRED TO ACCOMMODATE NEW SLAB-ON-GRADE & ELECTRICAL WORK, SEE DRAWING ES-102

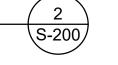


NOTE:
CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL
CERTIFY THE BEARING MEDIUM & FILL COMPACTION

SECTION
SCALE: 1"=1'-0"

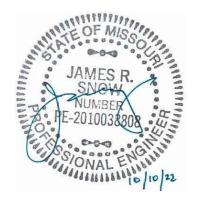


SECTION
SCALE: 1"=1'-0"



S-200

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



JAMES R. SNOW
Registered Professional Engineer
MO # PE- 2010038808
Expires 12-31-2022

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DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01 SITE # 7355

FACILITY # 6517335013

REVISION:
DATE:
REVISION:
DATE:
REVISION:

ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013- S-200.DWG DRAWN BY: CPG

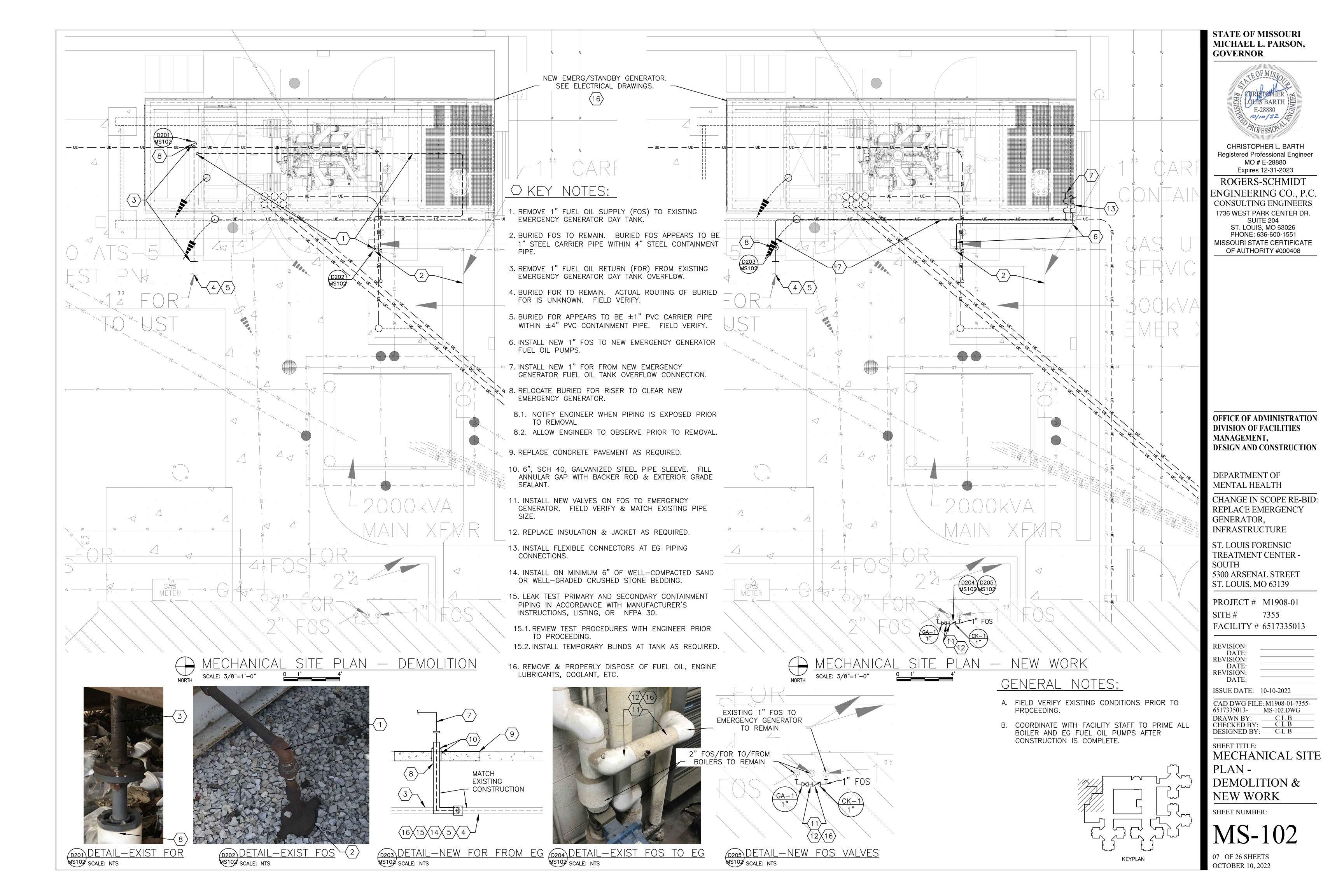
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CHECKED BY: JRS
DESIGNED BY: SHS

SHEET TITLE:

GENERATOR
FOUNDATION
PLAN & SECTIONS

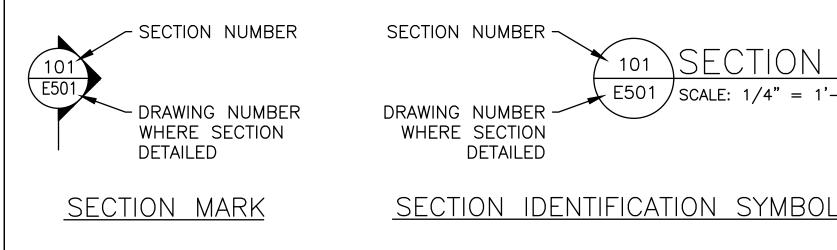
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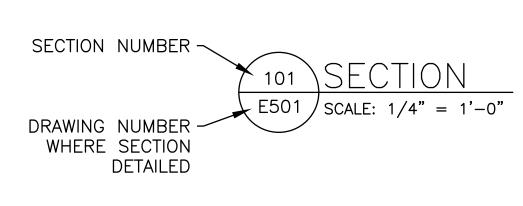
S-200



ELECTRICAL SYMBOLS ELECTRICAL ABBREVIATIONS MICHAEL L. PARSON, **GOVERNOR** POLE(S) AMPERE(S) EXH EXHAUST WIRING CROSSING, CONNECTION FDR NUMBER PER FDR SCHEDULE ELECTRIC METER ABAND ABANDONED P/O PART OF EXIST EXISTING TE OF MISS. KEYNOTE; SPECIFICALLY REFERENCED TO WIRING CROSSING, NO CONNECTION END-OF-LINE RESISTOR ALTERNATING CURRENT FUSE OR FUSIBLE PUSHBUTTON SWITCH **EOLR** AN ITEM ON THE FIELD OF THE BARRY D. DRAWING. DIGITS IDENTIFY NOTE NUMBER. AMP FUSE OR AMP FRAME FDR FEEDER POWER FACTOR FREINER EQUIPMENT CONNECTION 4' INDUSTRIAL OR STRIP LIGHT ABOVE FINISHED FLOOR FL FLOOR PILOT LIGHT E-24220 CONDUIT EXPOSED ABOVE FINISHED GRADE FM FREQUENCY METER PANEL 10-10-55 SELECTOR OR TOGGLE SWITCH EXIT SIGN — SINGLE FACE WALL MTD **—**0 AMPERE INTERRUPTING CAPACITY CONDUIT OR CABLE TURNED DOWN FOR FORWARD PNLBD PANELBOARD BATTERY OPERATED EMERGENCY LIGHT (RMS SYMMETRICAL) FP FIRE PUMP OR FIRE PROTECTION PROTECTIVE RELAYS OR PAIR NON-FUSIBLE DISCONNECT SWITCH CONDUIT OR CABLE TURNED UP BARRY D. FREINER AM AMMETER FVNR FULL VOLTAGE NON REVERSING POTENTIAL TRANSFORMER MANUAL PULL STATION ANNUN ANNUNCIATOR CONDUIT BELOW GRADE OR IN FLOOR MEDIUM VOLTAGE FUSIBLE GAUGE PUSH-TO-TEST MO # E-24220 _____ 0 LOAD-INTERUPTER SWITCH APPROX APPROXIMATELY Expires 12-31-2022 HORN/STROBE ANNUNCIATOR, WALL-MTD SCHEDULE 40 GALLON POLYVINYLCHLORIDE CONDUIT **ROGERS-SCHMIDT** AS AMMETER SWITCH FUSED SWITCH FLEXIBLE CONDUIT OR CABLE GALV GALVANIZED HEAT DETECTOR, CEILING-MTD PWR POWER ASSOC ASSOCIATED GENERATOR CONTROL PANEL HOME RUN TO PANEL - SHORT RIGID ALUMINUM CONDUIT FUSIBLE DISCONNECT SWITCH ASSY ASSEMBLY STROKES INDICATE PHASE OR SWITCHED GROUND FAULT ADDRESSABLE RELAY CONTROL MODULE WIRES, LONG STROKE DENOTES NEUTRAL, L_______ RECPT RECEPTACLE AT AMP TRIP GROUND FAULT CIRCUIT SUITE 204 LONG STROKE WITH DOT DENOTES REQD REQUIRED INTERRUPTER (6 mA) \neg SMOKE DETECTOR, CEILING-MTD ATS AUTOMATIC TRANSFER SWITCH ST. LOUIS, MO 63026 FUSE GROUND. #12 AWG WIRES IN ¾"GRC PHONE: 636-600-1551 REQMTS REQUIREMENTS UNLESS NOTED OTHERWISE. AUTO AUTOMATIC GROUND FAULT RELAY MEDIUM VOLTAGE (MV) FUSE $-\infty$ FIRE EXTINGUISHER REV REVERSE GENERATOR REMOTE OF AUTHORITY #000408 AUX AUXILIARY DISCONNECT SWITCH ANNUNCIATOR PANEL RM ROOM F = FUSIBLEAVAIL AVAILABLE CIRCUIT BREAKER GALVANIZED RIGID STEEL N = NON-FUSIBLE0 0 RIGID METAL CONDUIT AMERICAN WIRE GAUGE $\langle\!\langle\!\langle \cdots \rangle\!\rangle$ JUNCTION BOX DRAW-OUT CIRCUIT BREAKER REMOTE MONITORING PANEL GRD GROUND BUILDING AUTOMATION SYSTEM ROOT MEAN SQUARE BELOW FINISHED GRADE \mathcal{W} TRANSFORMER EXISTING CONTROL PANEL \bigcap SURGE ARRESTOR H-O-A HAND-OFF-AUTOMATIC BREAKER CURRENT TRANSFORMER (SHOWN WITH SURGE CAPACITOR HORSEPOWER BLDG BUILDING NEW CONTROL PANEL POLARITY MARKS, RATIO & QUANTITY) SHORT CIRCUIT FREQUENCY IN CYCLES PER BSMT BASEMENT POTENTIAL TRANSFORMER (SHOWN WITH SECOND EXISTING PANELBOARD SCHEDULE QUANTITY AND RATIO) CONDUIT OR CONDUCTOR I/O INPUT/OUTPUT SHLD SHIELD OR SHIELDED CIRCUIT BREAKER CONTROL POWER TRANSFORMER SINGLE POLE SWITCH INCLUDING SPEED OR SURGE PROTECTIVE CIRCULATING INFORMATION OFF 120V DUPLEX RECEPTACLE CIRCUIT SELECTOR SWITCH OR STAINLESS INSULATED INS HAND-OFF-AUTOMATIC CNTRL CONTROL 120V GROUND FAULT CIRCUIT INSTRUMENT OR SELECTOR SWITCH SHUNT TRIP INTERRUPTER DUPLEX RECEPTACLE INSTRUMENTATION COMB COMBINATION STA STATION 120V DUPLEX RECEPTACLE W/ CONC CONCRETE JUNCTION BOX J-BOX WEATHERPROOF COVER STL STEEL PILOT LIGHT, PUSH-TO-TEST CONTROL PANEL **DIVISION OF FACILITIES** KILOAMPERE(S) X = LENS COLOR120V DOUBLE DUPLEX RECEPTACLE STRD STRANDED CONTROL POWER TRANSFORMER MANAGEMENT, KILOAMPERE INTERRUPTING SW SWITCH CAPACITY (RMS SYMMETRICAL) CONTROL RELAY SPECIAL RECEPTACLE (AS NOTED) STOP PUSHBUTTON SWBD SWITCHBOARD CONDUIT SUPPORT OR CONTROL KCM THOUSAND CIRCULAR MIL(S) SWGR SWITCHGEAR REMOTE CONTROL STATION START PUSHBUTTON kV KILOVOLT(S) DEPARTMENT OF \multimap \multimap CT CURRENT TRANSFORMER SYM SYMMETRICAL KILOVOLT-AMPERE(S) MENTAL HEALTH CONTACTOR NORMALLY CLOSED CONTACT CTR CENTER T THERMOSTAT kW KILOWATT(S) CU COPPER TERMINAL BLOCK (CR) NORMALLY OPEN CONTACT kWh KILOWATT-HOUR(S) CONTROL RELAY CHILLED WATER CW TOP OF CONCRETE GENERATOR, LA LIGHTING ARRESTER D OR EQUIPMENT GROUND FAULT THERMAL OVERLOAD TDR TIME DELAY RELAY INFRASTRUCTURE DΡ LIQUIDTIGHT FLEXIBLE METAL CONDUIT TEFC TOTALLY ENCLOSED FAN COOLED DIRECT CURRENT MECHANICAL (KEY) INTERLOCK ST. LOUIS FORENSIC MOTOR OVERLOAD CONTACTS LSH LEVEL SWITCH (HIGH) TEMP TEMPERATURE OR TEMPORARY DIAMETER TREATMENT CENTER -LONG TIME, SHORT TIME, TERM TERMINATION MOTOR, X = HORSEPOWERMOTOR STARTING CONTACTOR DISC DISCONNECT SOUTH INSTANTANEOUS, GROUND FAULT THERMAL MAGNETIC CIRCUIT 5300 ARSENAL STREET DN DOWN EXISTING COMBINATION MAGNETIC BREAKER **THERMOSTAT** LONG TIME, SHORT TIME, ST. LOUIS, MO 63139 MOTOR STARTER DISTRIBUTION PANEL INSTANTANEOUS, GROUND FAULT TYP TYPICAL NEW COMBINATION MAGNETIC DISCONNECT SWITCH PROJECT # M1908-01 TIME DELAY RELAY LEVEL SWITCH (LOW) UNDERGROUND ELECTRIC MOTOR STARTER DRAWING UNINTERRUPTIBLE POWER 7355 LTG LIGHTING -----TR TIMING RELAY EMERGENCY GENERATOR COMBINATION MOTOR STARTER MOTOR STARTING CONTACTOR OR FACILITY # 6517335013 V VOLT(S) EQUIP GROUND FAULT CIRCUIT SPD SURGE PROTECTIVE DEVICE INTERRUPTER (30 mA) VA VOLT-AMPERE(S) mA MILLIAMPERE(S) **REVISION: GENERATOR** ELEV ELEVATION S.A. DATE: VAR VARMETER MAX MAXIMUM SURGE ARRESTER **REVISION: →** 어I' ELEC ELECTRIC OR ELECTRICAL MCB MAIN CIRCUIT BREAKER DATE: VOLTMETER **REVISION:** EM EMERGENCY FAULTED CIRCUIT INDICATOR VS VOLTMETER SWITCH MCC MOTOR CONTROL CENTER DATE: LEVEL SWITCH - \circ \mid \sim \mid ENCL ENCLOSURE WATT(S), WIRE(S) OR WIDE MCCB MOLDED CASE CIRCUIT BREAKER ISSUE DATE: 10-10-2022 GROUNDING ROD EPM ELECTRONIC POWER METER W/ MIN MINIMUM WITH CAD DWG FILE: M1908-01-7355-CHASSIS GROUNDING CONNECTION EPO EMERGENCY POWER OFF 6517335013-E-001.DWG EARTH GROUNDING CONNECTION MLO MAIN LUG ONLY W/G WITH GROUND CHECKED BY: DESIGNED BY: DESIGNED BY: DESIGNED BY: RET BDF EQUIP EQUIPMENT W/O WITHOUT MS MOTOR STARTER DESIGNED BY: BDF MTD MOUNTED WEATHERPROOF SHEET TITLE: MEDIUM-VOLTAGE GENERAL ELECTRICAL NOTES: WIREWAY ELECTRICAL MEGAVOLT-AMPERES XFMR TRANSFORMER A. THE CONTRACTOR SHALL PROVIDE ALL HOLES IN FLOORS AND WALLS AS REQUIRED FOR SYMBOLS. SECTION NUMBER **IMPEDANCE** SECTION NUMBER CONDUIT ROUTING. SEAL PENETRATIONS IN ACCORDANCE WITH THE SPECIFICATIONS. **ABBREVIATIONS &** AND

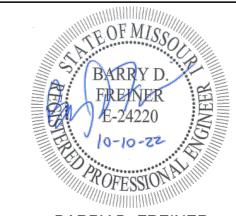
- B. COORDINATE EXACT LOCATIONS OF CONDUIT RUNS WITH EXISTING CONDITIONS AND WITH THE OWNER'S REPRESENTATIVE. INDICATE FINAL ROUTING OF ALL CONDUITS ON "AS BUILT" DRAWINGS.
- C. ALL INFORMATION CONTAINED ON THIS DRAWING APPLIES TO ED, ES, AND E SERIES DRAWINGS.
- D. THERE MAY BE SYMBOLS AND/OR ABBREVIATIONS SHOWN ON THIS SHEET THAT ARE NOT APPLICABLE TO THIS PROJECT.





NORMALLY CLOSED NORMALLY OPENED N/A NOT APPLICABLE NATIONAL ELECTRICAL CODE NON-FUSED NTS NOT TO SCALE OL OVERLOAD ELEMENT

STATE OF MISSOURI



Registered Professional Engineer

ENGINEERING CO., P.C. **CONSULTING ENGINEERS** 1736 WEST PARK CENTER DR MISSOURI STATE CERTIFICATE

OFFICE OF ADMINISTRATION DESIGN AND CONSTRUCTION

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY

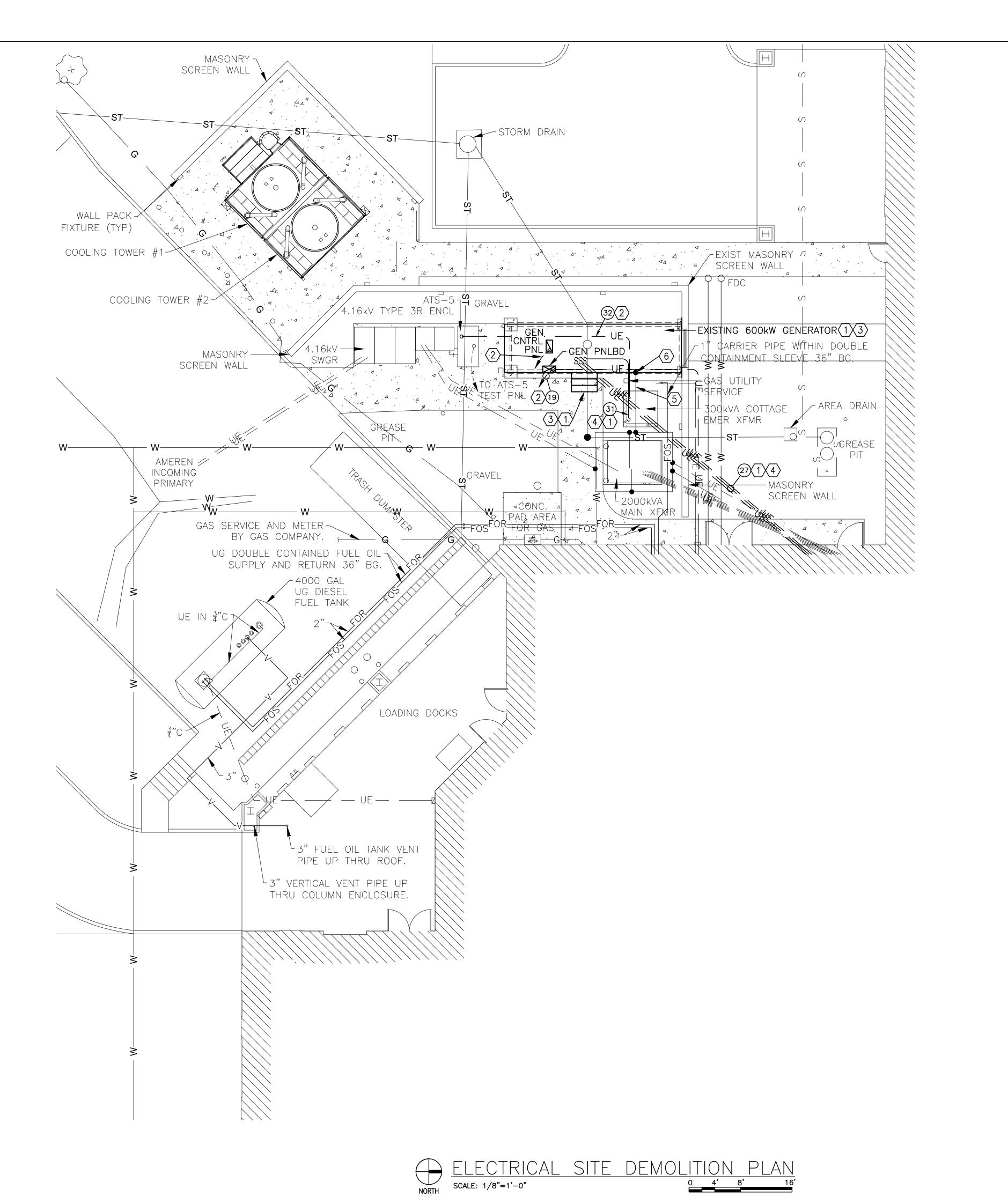
GENERAL NOTES SHEET NUMBER:

DELTA

NUMBER

PERCENT

Ø PHASE OR DIAMETER



- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWG ED-601.
- C. SEE DWG ED-101 FOR BLDG ELEC DEMO PLAN.

O KEY NOTES:

- 1. EXIST ITEM(S) TO BE REMOVED.
- 2. REMOVE CONDUCTORS FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
- 3. SALVAGE AND TURN OVER TO OWNER PER SPECIFICATION SECTION 260505.
- 4. REMOVE ABOVE GRADE PORTION OF CONDUIT(S) DOWN TO 2'-0" BFG. ABAND UG PORTION OF CONDUIT(S) IN PLACE.
- 5. USE CARE IN EXCAVATION TO AVOID DAMAGE TO EXIST UG GRD CONDUCTORS.
- 6. DISCONNECT EXIST UG GRD CONDUCTOR FROM EXIST GENERATOR STRUCTURAL STEEL FRAME.

- GOVERNOR

STATE OF MISSOURI

MICHAEL L. PARSON,

BARRY D. FREINER Registered Professional Engineer MO # E-24220

Expires 12-31-2022 ROGERS-SCHMIDT ENGINEERING CO., P.C.

CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355 FACILITY # 6517335013

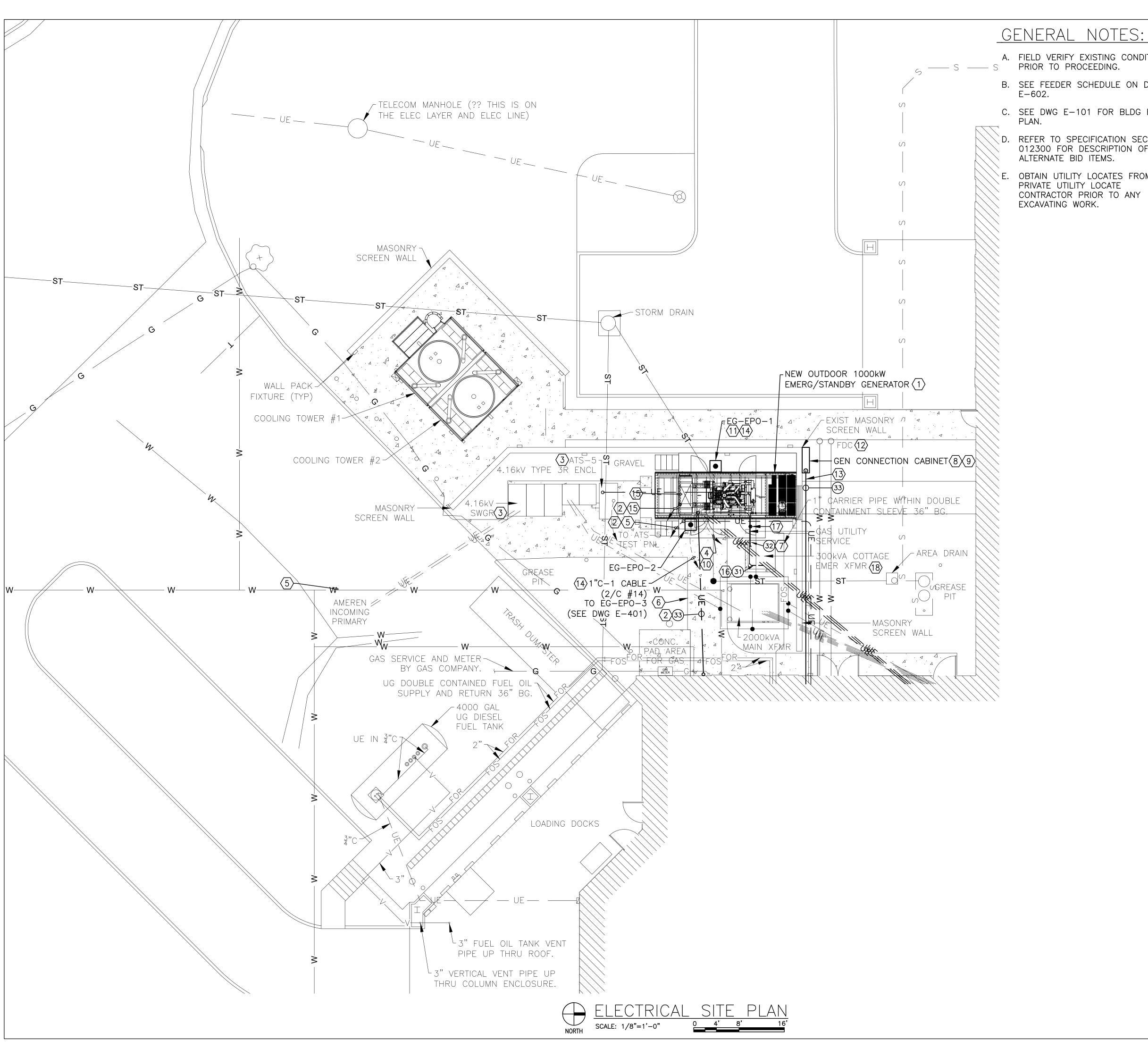
REVISION: REVISION: REVISION:

CAD DWG FILE: M1908-01-7355-6517335013-ES-101.DWG DRAWN BY: KET CHECKED BY: BDF DESIGNED BY: BDF

SHEET TITLE:

ELECTRICAL SITE PLAN -**DEMOLITION**

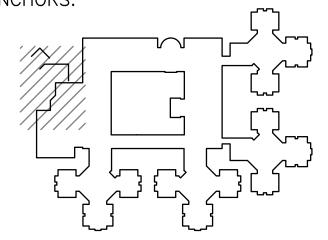
SHEET NUMBER:



○ KEY NOTES:

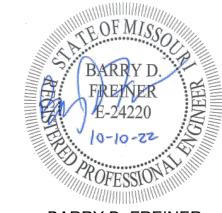
- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWG
- C. SEE DWG E-101 FOR BLDG ELEC
 - REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS.
- OBTAIN UTILITY LOCATES FROM PRIVATE UTILITY LOCATE CONTRACTOR PRIOR TO ANY EXCAVATING WORK.

- 1. PROVIDE NEW EG PER SPECIFICATION SECTION 263213.13.
- 2. EXTEND CONDUIT(S) INTO STUB-UP AREA ON NEW EG.
- 3. <u>ALT BID NO. 3</u>: PERFORM PREVENTATIVE MAINTENANCE ON THIS EQUIP PER SPECIFICATION SECTION 260115 AFTER NEW EG IS FULLY OPERATIONAL.
- 4. 1"C-4#12 (1 RED & 3 BLACK) & 1 CABLE (BELDEN #9842) TO REMOTE ANNUNCIATORS IN SALLYPORT. SEE DWGS E-101 & E-102.
- 5. $1\frac{1}{2}$ "C-FDR (4) FROM PNLBD 1LE4-1/3/5 TO PNLBD GEN IN EG
- 6. EXIST CONC WALK TO BE REPLACED AS REQD FOR NEW UG CONDUIT INSTALLATION. SEE STRUCTURAL
- 7. PROVIDE NEW FDR IN EXIST CONDUIT(S).
- 8. 1"C-4#8, 2#10 & 1#10 GRD TO PNLBD 1LE4-2, 4, 6 FOR SHORE POWER TO TEMP GENERATOR CONNECTION CABINET.
- 9. PROVIDE $\frac{3}{4}$ "C-1 CABLE (2/C#14) TO ATS-4 FOR TEMP GENERATOR REMOTE START.
- 10. PROVIDE 1"C-1 CABLE (2/C#18) FROM 1600A EG CB TO BAS CNTRL PNL IN ROOM C123 TO INDICATE WHEN THE PERMANENT EMERGENCY SOURCE IS DISCONNECTED FROM THE EMERGENCY SYSTEM.
- 11. 1"C-1 CABLE (2/C#14) FROM EG-EPO-1 TO EG-EPO-2 BY EG SUPPLIER.
- 12. COORDINATE WITH FIRE DEPARTMEN FOR MINIMUM DISTANCE THAT MUST BE MAINTAINED BETWEEN A TEMPORARY GENERATOR AND THE FIRE DEPARTMENT CONNECTION POINT.
- 13. PROVIDE CONDUIT EXPANSION FITTING IN EACH CONDUIT ON SCREEN WALL PER SPECIFICATION SECTION 260533.13 WITH STATIC END OF FITTINGS FACING WEST.
- 14. ALT BID NO. 2: ADD A SECOND 2/C#14 CABLE TO THIS CONDUIT TO SHUTDOWN RESISTIVE LOAD BANK.
- 15. PROVIDE 1"C-1 RS-485 CABLE (2/C #22 SHLD) FROM GCP TO BAS CNTRL PNL IN ROOM C123 TO ALLOW FOR MONITORING EG STATUS & ALARMS WITH THE EXIST NIAGARA BAS. PEOVIDE GRAPHIC SCREENS AS
- 16. REWORK EXIST 4"C INTO XFMR 480V WIRING COMPARTMENT.
- 17. CONNECT EXIST UG GRD CONDUCTOR TO A NEW 3/4"øX10'L GRD ROD. PROVIDE 4/0 GRD FROM EG GRD BUS TO GRD ROD.
- 18. MOVE XFMR EAST (3" MAX) IF/AS REQD TO ALLOW PRIMARY COMPARTMENT DOOR TO OPEN A MIN OF 90°. SECURE XFMR TO EXIST CONC PAD AT ALL FOUR CORNERS W/ MIN 5/8"Ø EXPANSION ANCHORS.



KEYPLAN

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. **CONSULTING ENGINEERS** 1736 WEST PARK CENTER DR.

SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSTRUCTION**

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355

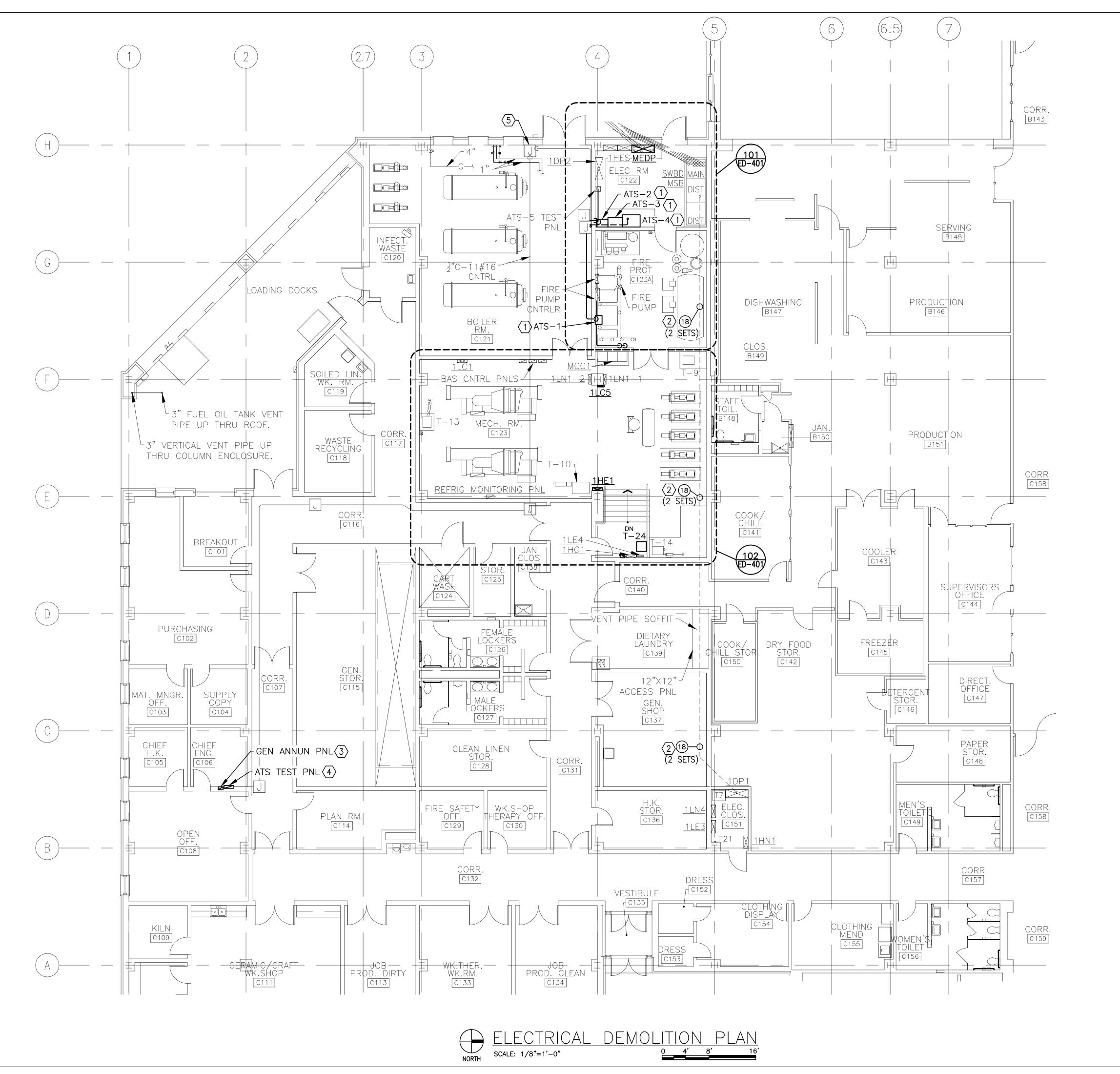
SITE# FACILITY # 6517335013

REVISION: DATE: REVISION: DATE: REVISION:						
DATE: ISSUE DATE:	10-10-2022					
CAD DWG FILE: M1908-01-7355-6517335013- ES-102 DWG						

DRAWN BY: CHECKED BY: DESIGNED BY: BDF

SHEET TITLE: ELECTRICAL SITE PLAN - NEW WORK

SHEET NUMBER:



- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWG ED-601.

O KEY NOTES:

- 1. EXIST ITEM(S) TO BE REMOVED.
- 2. REMOVE CONDUCTORS FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
- 3. REMOVE EXIST GRAP & EPO STATION. PATCH GYPSUM BOARD AND PAINT TO MATCH EXIST.
- 4. REMOVE EXIST REMOTE CNTRL PNL FOR EXIST ATS-1, -2, -3 & -4. REMOTE TEST PNL FOR ATS-5 TO REMAIN.
- 5. 8"X8"X4"D CNTRL J-BOX W/

 1"C-45#16 CNTRL & ½"C-11#16

 CNTRL IN TOP & W/ 1"C-32#16

 CNTRL & 1"C-44#16 CNTRL OUT

 BOTTOM TO EXIST GCP. REWORK

 EXIST CONDUT INTO STUB-UP AREA

 ON NEW EG.

STATE OF MISSOURI MICHAEL L. PARSON,

GOVERNOR

BARRY D.
FREINER
E-24220
IO-10-22

BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C.

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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

SITE # 7355 FACILITY # 6517335013

REVISION:
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ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013- ED-101.DWG

DRAWN BY: K E T

CHECKED BY: B D F

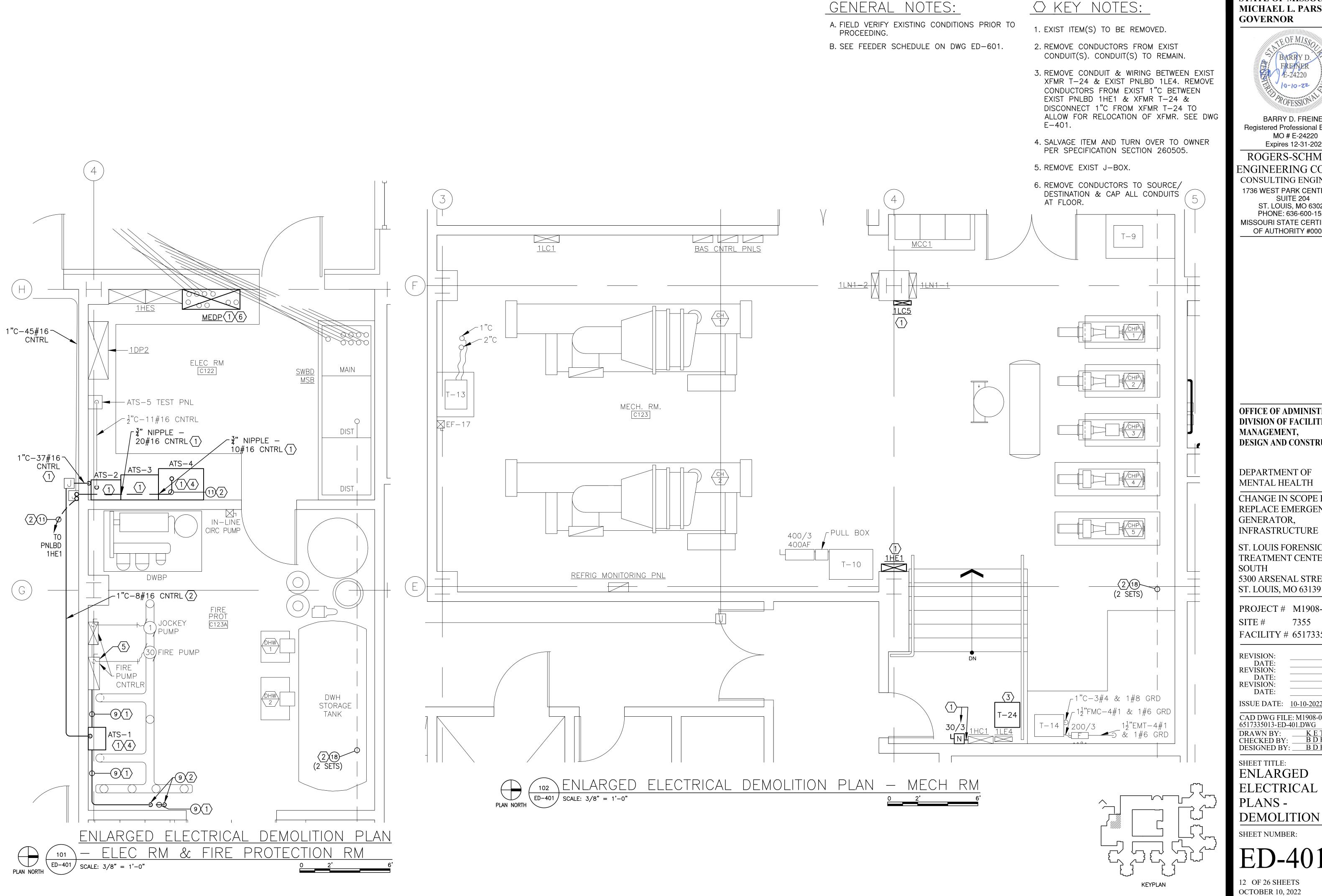
DESIGNED BY: B D F

SHEET TITLE:

ELECTRICAL PLAN
- DEMOLITION

SHEET NUMBER:

ED-101



STATE OF MISSOURI MICHAEL L. PARSON,

BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204

ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, **DESIGN AND CONSTRUCTION**

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355 FACILITY # 6517335013

REVISION: REVISION: DATE: **REVISION:**

CAD DWG FILE: M1908-01-7355-6517335013-ED-401.DWG

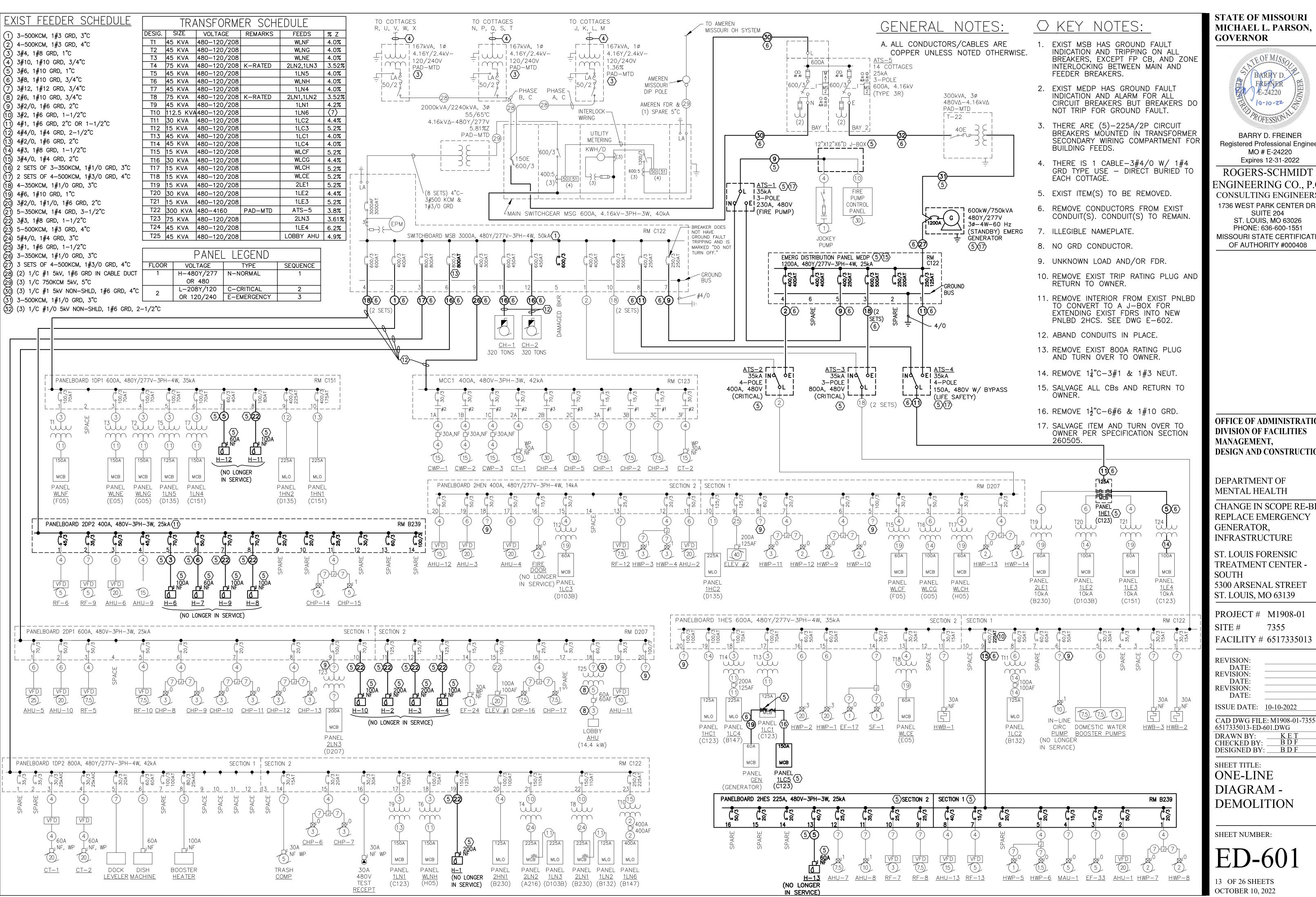
DRAWN BY: KET

CHECKED BY: BDF

DESIGNED BY: B D F

SHEET TITLE: ENLARGED ELECTRICAL PLANS -

SHEET NUMBER:



STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. **CONSULTING ENGINEERS**

SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT. DESIGN AND CONSTRUCTION

DEPARTMENT OF

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, **INFRASTRUCTURE**

TREATMENT CENTER 5300 ARSENAL STREET

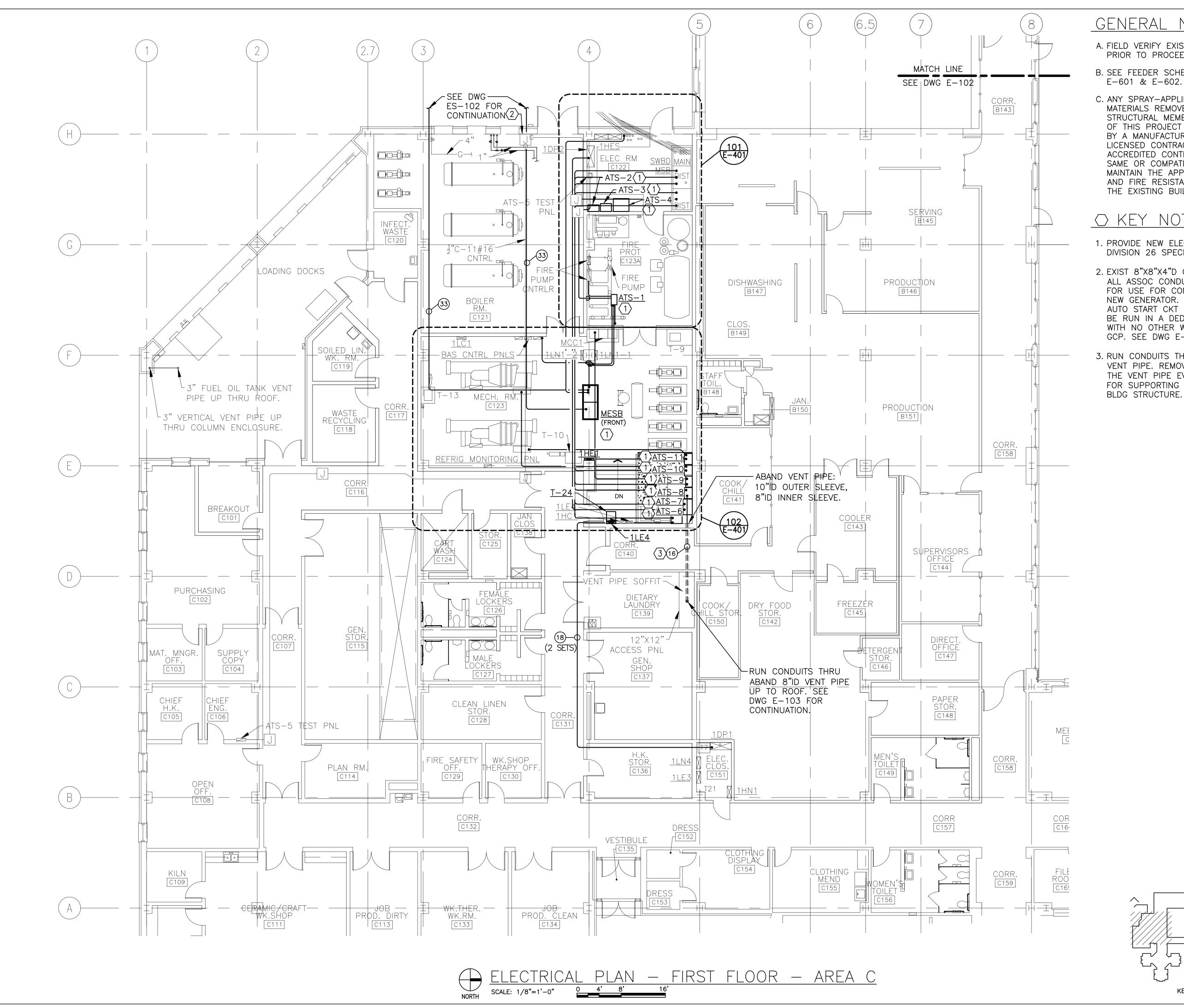
PROJECT # M1908-01

FACILITY # 6517335013

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SHEET TITLE: **ONE-LINE** DIAGRAM -

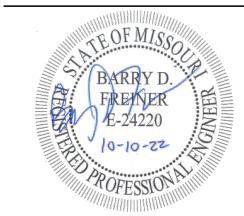


- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWGS
- C. ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.

○ KEY NOTES:

- 1. PROVIDE NEW ELECT EQUIP PER DIVISION 26 SPECIFICATIONS.
- 2. EXIST 8"X8"X4"D CNTRL J-BOX AND ALL ASSOC CONDUITS TO REMAIN FOR USE FOR CONTROL WIRING FOR NEW GENERATOR. SEE DWG ED-101. AUTO START CKT FOR FP ATS MUST BE RUN IN A DEDICATED CONDUIT, WITH NO OTHER WIRING, TO THE GCP. SEE DWG E-401.
- 3. RUN CONDUITS THRU ABAND 8"ID VENT PIPE. REMOVE A PORTION OF THE VENT PIPE EVERY 10' TO ALLOW FOR SUPPORTING CONDUITS TO THE BLDG STRUCTURE.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

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OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355 FACILITY # 6517335013

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

ISSUE DATE: 10-10-2022

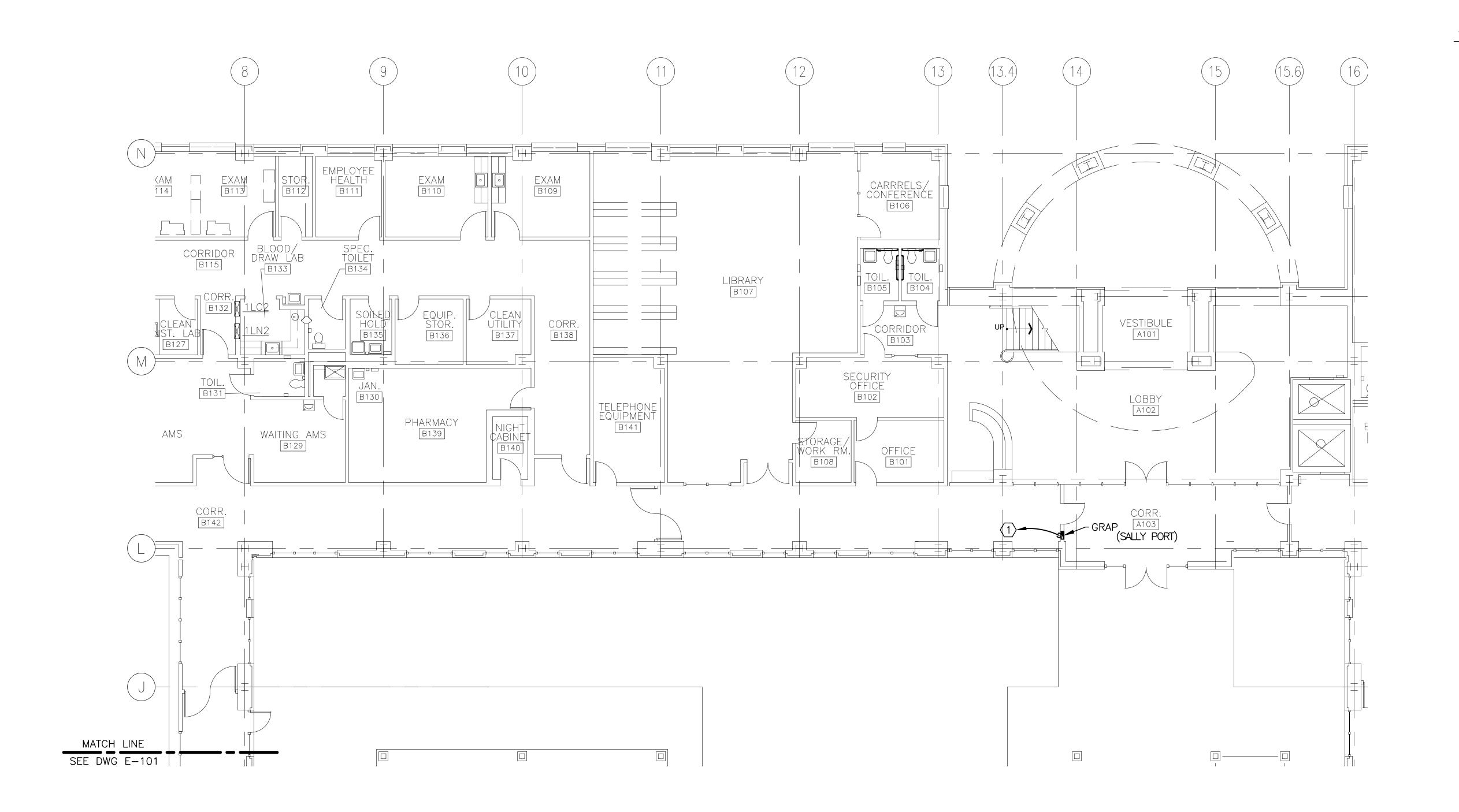
CAD DWG FILE: M1908-01-7355-6517335013-E-101.DWG

DRAWN BY: ___ CHECKED BY: __ DESIGNED BY: BDF

SHEET TITLE:

ELECTRICAL PLAN - FIRST FLOOR -AREA C

SHEET NUMBER:

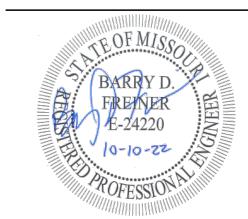


- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.

O KEY NOTES:

1. 1"C-4#12 (1 RED & 3 BLACK) & 1 CABLE (BELDEN #9842) TO GCP. ROUTE ABOVE SUSPENDED CEILING. SEE DWG ES-102.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204

SUITE 204
ST. LOUIS, MO 63026
PHONE: 636-600-1551
MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

SITE # 7355 FACILITY # 6517335013

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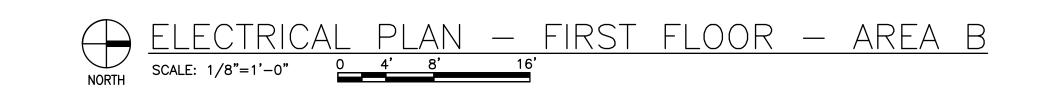
ISSUE DATE: <u>10-10-2022</u>

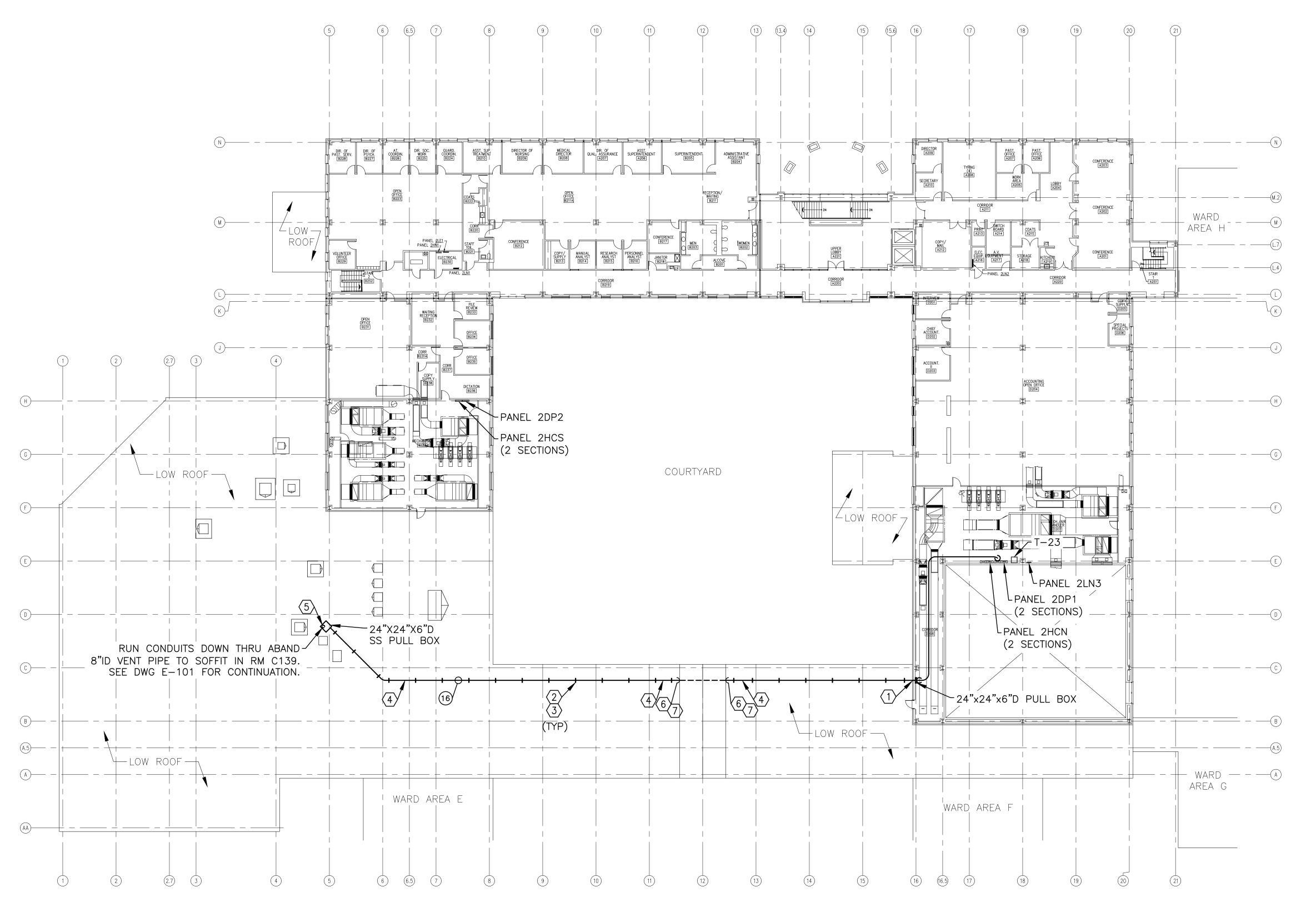
SHEET TITLE:

ELECTRICAL PLAN
- FIRST FLOOR AREA B

SHEET NUMBER:

E-102



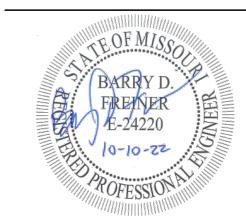


- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWGS E-601 & E-602.
- C. ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.
- D. PROTECT THE ROOF AS REQUIRED DURING CONSTRUCTION SO AS NOT TO VOID THE ROOF WARRANTY. COORDINATE WITH ROOFING CONTRACTOR FOR PROTECTION REQUIREMENTS.

O KEY NOTES

- 1. PROVIDE LINK SEAL AT CONDUIT PENETRATION THROUGH WALL.
- 2. PROVIDE ROOF TOP CONDUIT SUPPORTS IN ACCORDANCE WITH SPECIFICATION 260529 EVERY 10' AND WITHIN 3' OF ALL BLDG PENETRATIONS. HEIGHT OF CONDUIT ABOVE ROOF SHALL BE 1'-0" TO BOTTOM OF CONDUIT.
- 3. CONDUIT SUPPORT SHALL BE FURNISHED AND INSTALLED AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY. SUPPORTS AND INSTALLATION SHALL BE REVIEWED AND APPROVED BY ROOFING CONTRACTOR. COORDINATE AS REQUIRED.
- 4. PROVIDE CONDUIT EXPANSION FITTING IN EACH CONDUIT IN ACCORDANCE WITH SPECIFICATION 260533.13.
- 5. PROVIDE WEATHERTIGHT FLASHING FOR TOP OF EXIST ABAND 8"ID VENT PIPE AT INTERFACE WITH NEW PULL BOX. SUPPORT CONDUITS TO THE BLDG STRUCTURE WITHIN 3'-0" OF CONNECTION TO PULL BOX.
- 6. PROVIDE LB FITTING IN EACH CONDUIT. CONDUITS SHALL PENETRATE ROOF AND PASS THRU EXTERIOR OVERHANG SOFFIT SPACE. SEE ROOF PENETRATION DETAIL ON DWG E-501.
- 7. EXIST FIRESTONE ROOFING SYSTEM IS UNDER WARRANTY. A FIRESTONE CERTIFIED ROOFING CONTRACTOR SHALL COMPLETE ROOFING WORK AS REQD TO MAINTAIN THE EXIST WARRANTY.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR.

SUITE 204
ST. LOUIS, MO 63026
PHONE: 636-600-1551
MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID:
REPLACE EMERGENCY
GENERATOR,
INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET

PROJECT # M1908-01

ST. LOUIS, MO 63139

SITE # 7355 FACILITY # 6517335013

DATE:
REVISION:
DATE:
REVISION:
DATE:

REVISION:

ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-E-103.DWG

DRAWN BY: KET
CHECKED BY: BDF
DESIGNED BY: BDF

SHEET TITLE:

ELECTRICAL PLAN
- SECOND FLOOR

SHEET NUMBER:

E-103

16 OF 26 SHEETS
OCTOBER 10, 2022

ELECTRICAL PLAN — SECOND FLOOR SCALE: 1"=20'-0"

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWGS E-601 & E-602.
- C. ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.
- D. ALL CONDUIT CONNECTIONS TO FPATS, FP CONTROLLER & FP CONTROLLER J-BOX MUST BE WITH GROUNDING TYPE THREADED CONDUIT HUBS.
- E. REFER TO SPECIFICATION SECTION 012300 FOR

OKEY NOTES:

- 1. PROVIDE NEW ELECT EQUIP PER DIV 26 SPECIFICATIONS.
- 2. PROVIDE $\frac{3}{4}$ "C-1 CABLE (2/C#18) TO BAS CNTRL PNL TO INDICATE WHEN THE FP EM CB IS TRIPPED OR OPEN.
- 3. BOLT ENCLOSURE LEGS TO CONC FLOOR. PROVIDE U-STRUT SUPPORT RACK IF/AS REQD BY EQUIP MANUFACTURER.
- 4. PROVIDE CONCRETE TO MATCH ELEVATION OF EXIST CONCRETE HOUSEKEEPING PAD (APPROX 3½"H) SHOWN BY DASHED LINE.
- 5. SEE DETAIL 107 ON DWG E-501.

- 8. PROVIDE COMMUNICATIONS MODULE & RS-485 CABLE (2/C#22 SHLD) IN $\frac{3}{4}$ "C FROM ATSs TO BAS CNTRL PNL IN RM C123 TO ALLOW FOR MONITORING THE STATUS OF EACH ATS WITH THE EXIST NIAGARA BAS. PROVIDE A GRAPHIC SCREEN SHOWING ALL ATS'S AND A SCREEN FOR EACH INDIVIDUAL ATS.
- 9. CONNECT NEW CONDUIT TO EXIST OUT TO EG AT FLR.
- 10. RUN FDR THRU NEW J-BOX BELOW EXIST FP CONTROLLER.
- 11. RELOCATE EXIST XFMR T-24 TO NEW U-STRUT WALL RACK ABOVE NEW PNLBD 1LE4. XFMR SHALL BE 7'-6" AFF TO BOTTOM & 6" OFF WALL TO BACK. REWORK EXIST FDR (3) CONDUIT FROM PNLBD 1HE1 TO T-24 & PROVIDE NEW SECONDARY FDR (1) TO NEW
- 13. PROVIDE 1"C-2 CABLES (2/C#14) BETWEEN EACH ATS AND OUT TO GCP FOR AUTO START & INDICATION THAT ATS IS CONNECTED TO EM SOURCE.
- 14. ALL CONDUITS SHALL CONNECT TO BOTTOM OF ENCLOSURE AT LOCATION INDICATED ON THE EQUIP SHOP DWGS.
- 15. PROVIDE ENGRAVED NP PER SPECIFICATION 260553 & 3"C-8#16 TO BAS CNTRL PNL IN RM C123.
- 16. PROVIDE 12"X12"X6"D NEMA 4 J-BOX BELOW FP CONTROLLER. LOCATE SUCH THAT COVER IS READILY ACCESSIBLE FOR REMOVAL.
- 17. EXTEND EXIST 1" CNTRL CONDUIT INTO BOTTOM OF NEW ATS-1 & PROVIDE 1 CABLE (2/C#14) TO GCP FOR INDICATION THAT ATS-1 IS CONNECTED TO EM SOURCE.

- 19. PROVIDE 2/C#14 TYPE MI CNTRL CABLE FROM N.O. AUX CONTACT IN FP EM CB TO ATS-1.
- 20. PROVIDE 2/C#14 TYPE MI CNTRL CABLE TO GCP FOR AUTO START. CONNECT TO CABLE FROM FP EM CB AUX CONTACT TO BLOCK STARTING OF EG WHEN CB IS OPEN OR TRIPPED. SUPPORT CABLE FROM GENERATOR SCREEN WALL NEXT TO FDR FOR GENERATOR CONNECTION CABINET. SEE DWG ES-102.
- 21. PROVIDE NEW FEEDER IN EXIST CONDUIT(S).
- 22. MAX LENGTH OF FDR CONDUCTORS SHALL BE 10'-0".
- 23. RELOCATE OR RAISE EXIST (2) 6" CW PIPES, 8" CW PIPE & 13" FP PIPE AS REQD TO PROVIDE 6'-0" OF DEDICATED ELEC SPACE ABOVE THE TOP OF NEW SWBD. PROVIDE 6'-0" ABOVE THE TOP OF SWBD.





BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. **CONSULTING ENGINEERS**

1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT. **DESIGN AND CONSTRUCTION**

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355 FACILITY # 6517335013

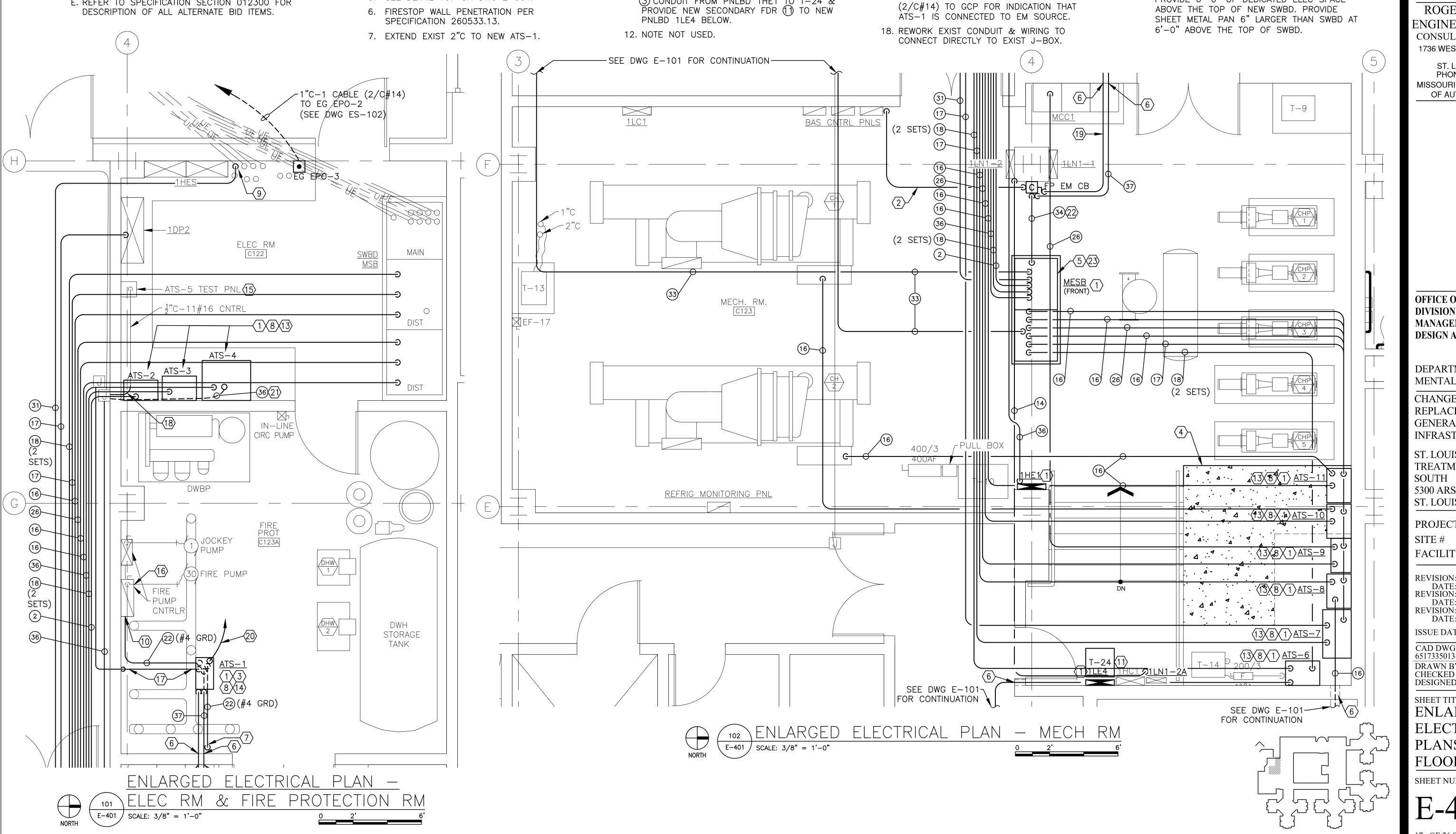
> **REVISION: REVISION:**

CAD DWG FILE: M1908-01-7355-6517335013-E-401.DWG DRAWN BY: KET
CHECKED BY: B D F
DESIGNED BY: B D F

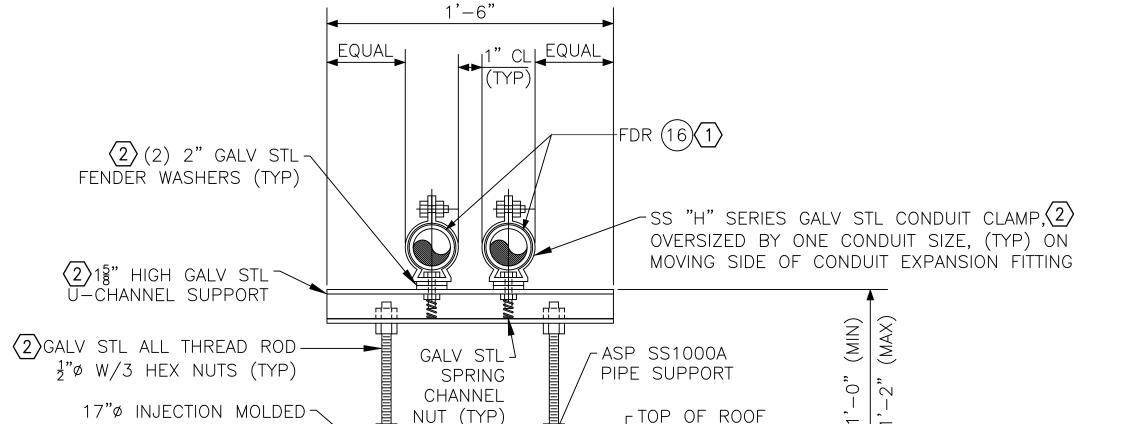
SHEET TITLE: **ENLARGED**

ELECTRICAL PLANS - FIRST **FLOOR**

SHEET NUMBER:







- 1. SEISMIC CONDUIT BRACING REQUIREMENTS ARE IN ADDITION TO NORMAL CONDUIT SUPPORT REQUIREMENTS OF SPECIFICATION SECTION 16190.
- 2. CONDUITS SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (LATEST EDITION).

○ KEY NOTES:

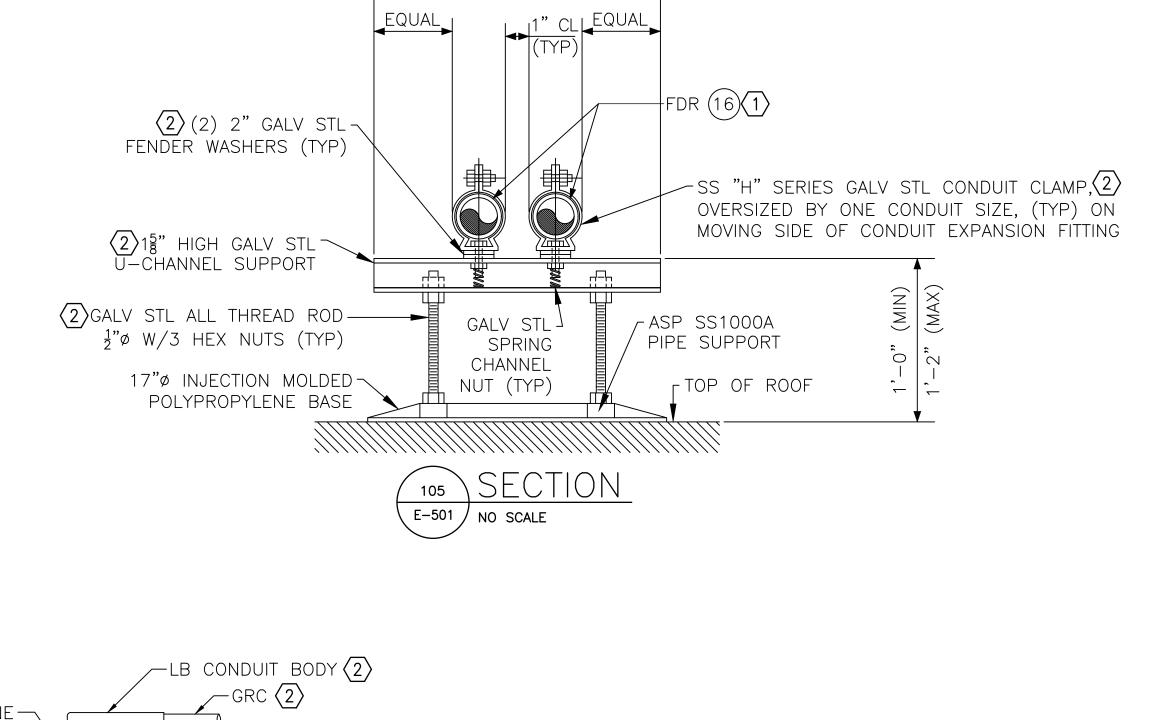
- 1. SEE FEEDER SCHEDULE ON DWG E-601.
- 2. PAINT PER SPECIFICATION SECTION 099100.
- 3. CONDUIT ROOF PENETRATION SUBJECT TO APPROVAL OF THE FIRESTONE CERTIFIED ROOFING CONTRACTOR.
- 4. PROVIDE 24" PULL BOX IF/AS REQD FOR INCOMING & OUTGOING CONDUITS.
- 5. ALT BID NO. 1

3½H" CONC PAD 2" LARGER THAN

EQUIP ALL AROUND W/ 1"

(SEE STRUCTURAL DWGS)

CHAMFERED EDGE ALL AROUND



72" MIN 95" MAX 30", 1-36", MIN 000 **4**24" -INCOMING/OUTGOING CONDUITS 1600A MAIN LUGS CPT & DC PWR SUPPLY 600/3 57(5) 800/3 5 5 90" MIN 600/3 5 5 91.5" 300/3 5 MAX 400/3 57 5 450/3 57 5 450/3 57 5 400/3 57 5 450/3

> NEW SWBD MESB ELEVATION E-501 NO SCALE

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, **DESIGN AND CONSTRUCTION**

STATE OF MISSOURI

GOVERNOR

MICHAEL L. PARSON,

BARRY D. FREINER

Registered Professional Engineer

MO # E-24220

Expires 12-31-2022

ROGERS-SCHMIDT

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MISSOURI STATE CERTIFICATE

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DEPARTMENT OF MENTAL HEALTH

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ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355

FACILITY # 6517335013

REVISION: REVISION:

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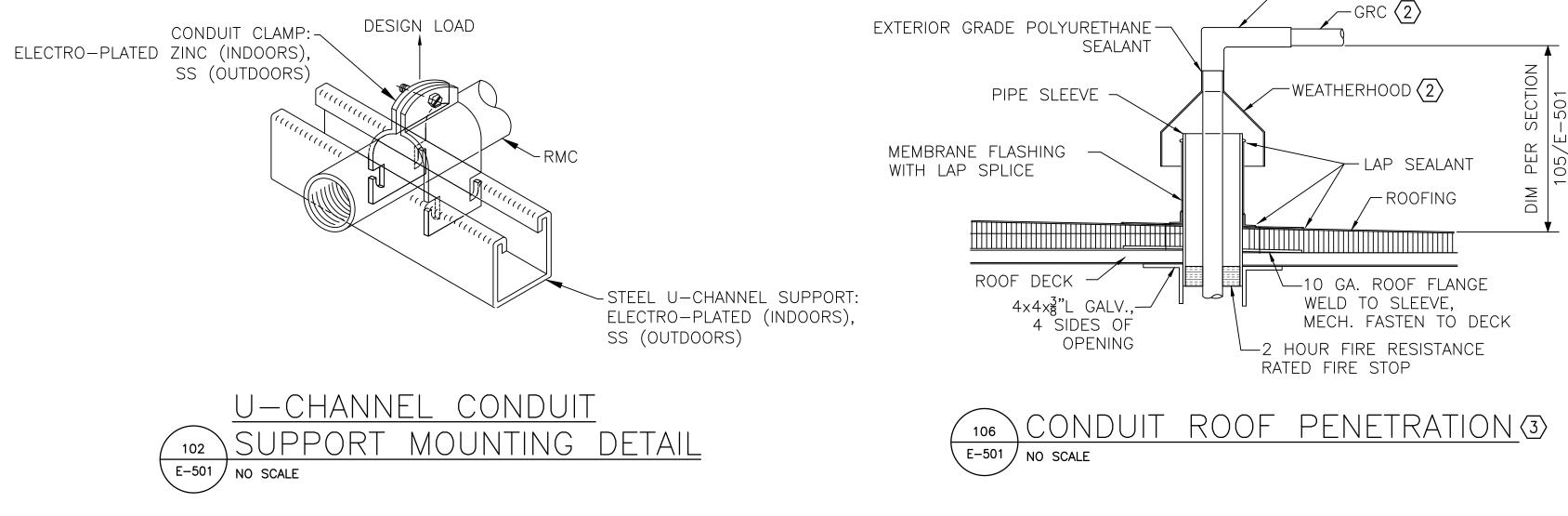
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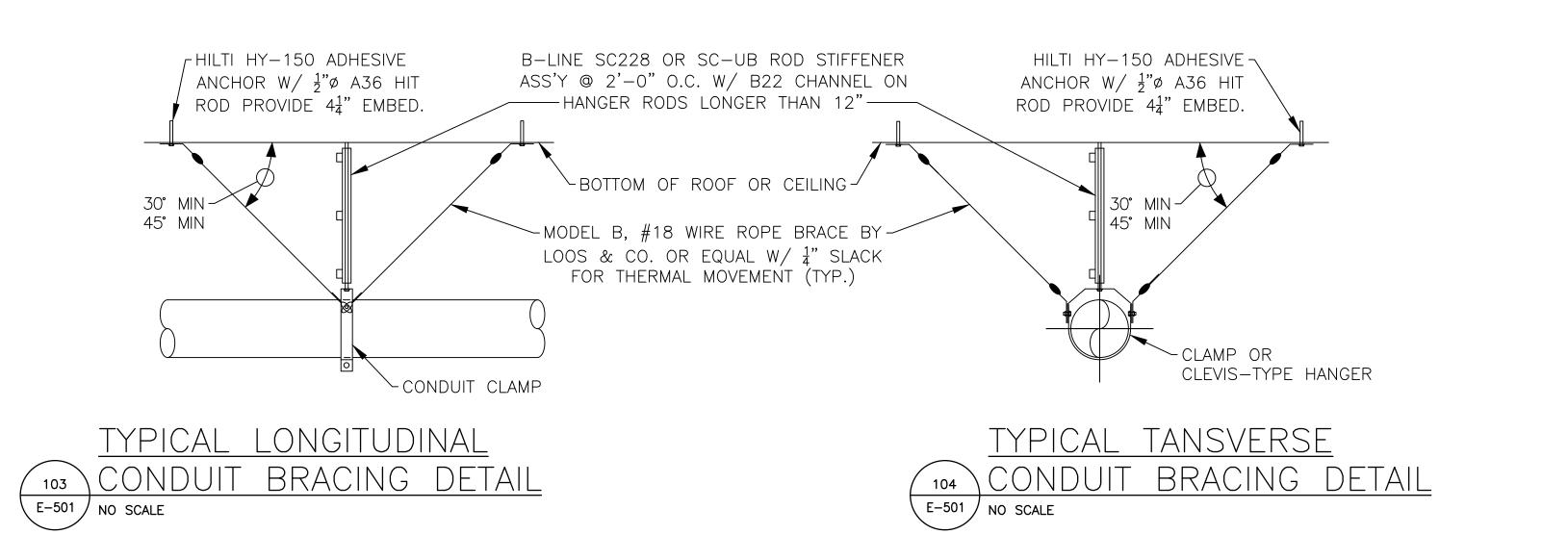
DRAWN BY: KET
CHECKED BY: BDF
DESIGNED BY: BDF

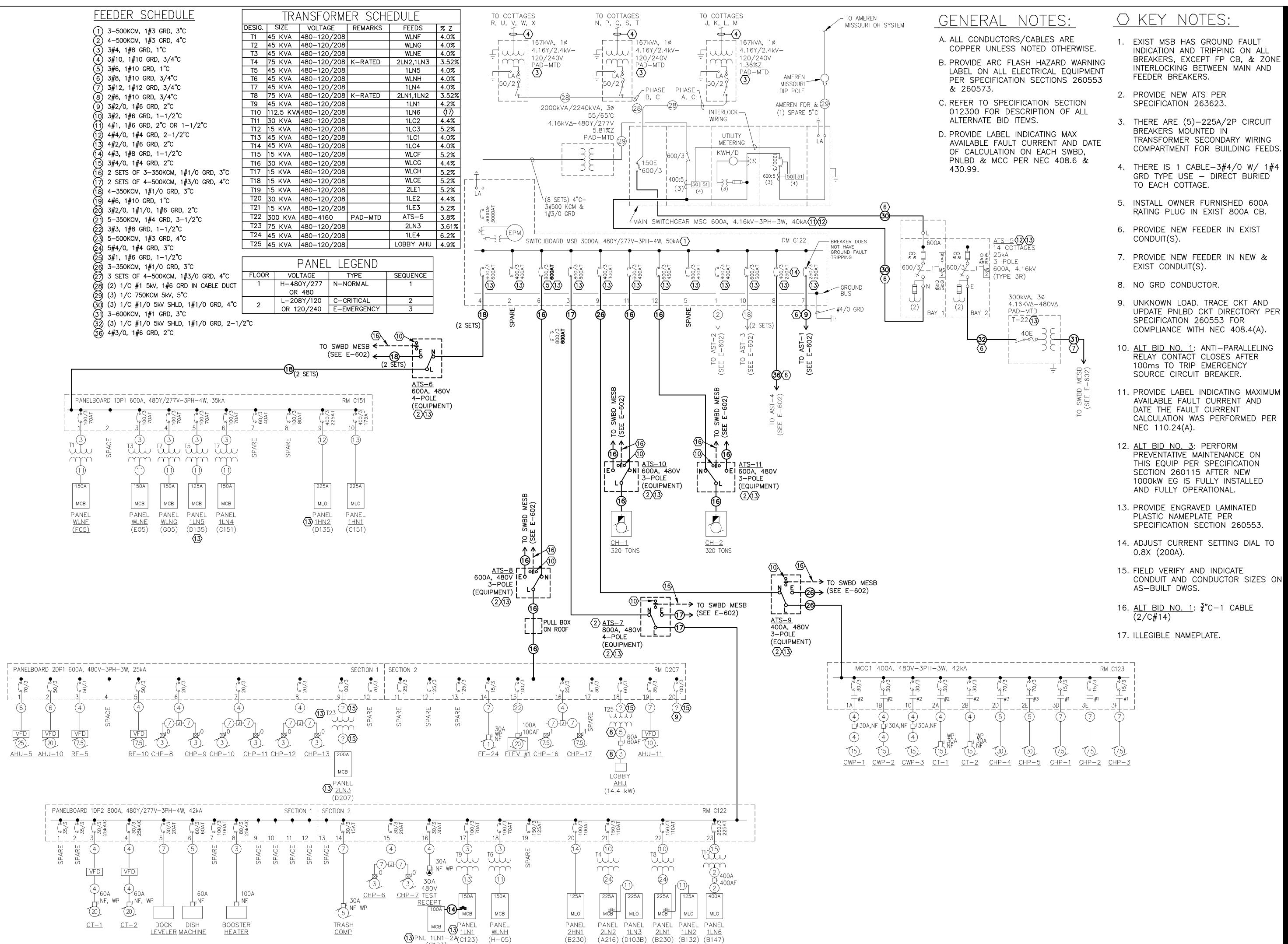
SHEET TITLE: ELECTRICAL DETAILS

SHEET NUMBER:

E-501







(A216) (D103B) (B230) (B132) (B147)

STATE OF MISSOURI MICHAEL L. PARSON,

> TEOF MISC BARRY D. FREINER E-24220

GOVERNOR

BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

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PROJECT # M1908-01

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REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE:

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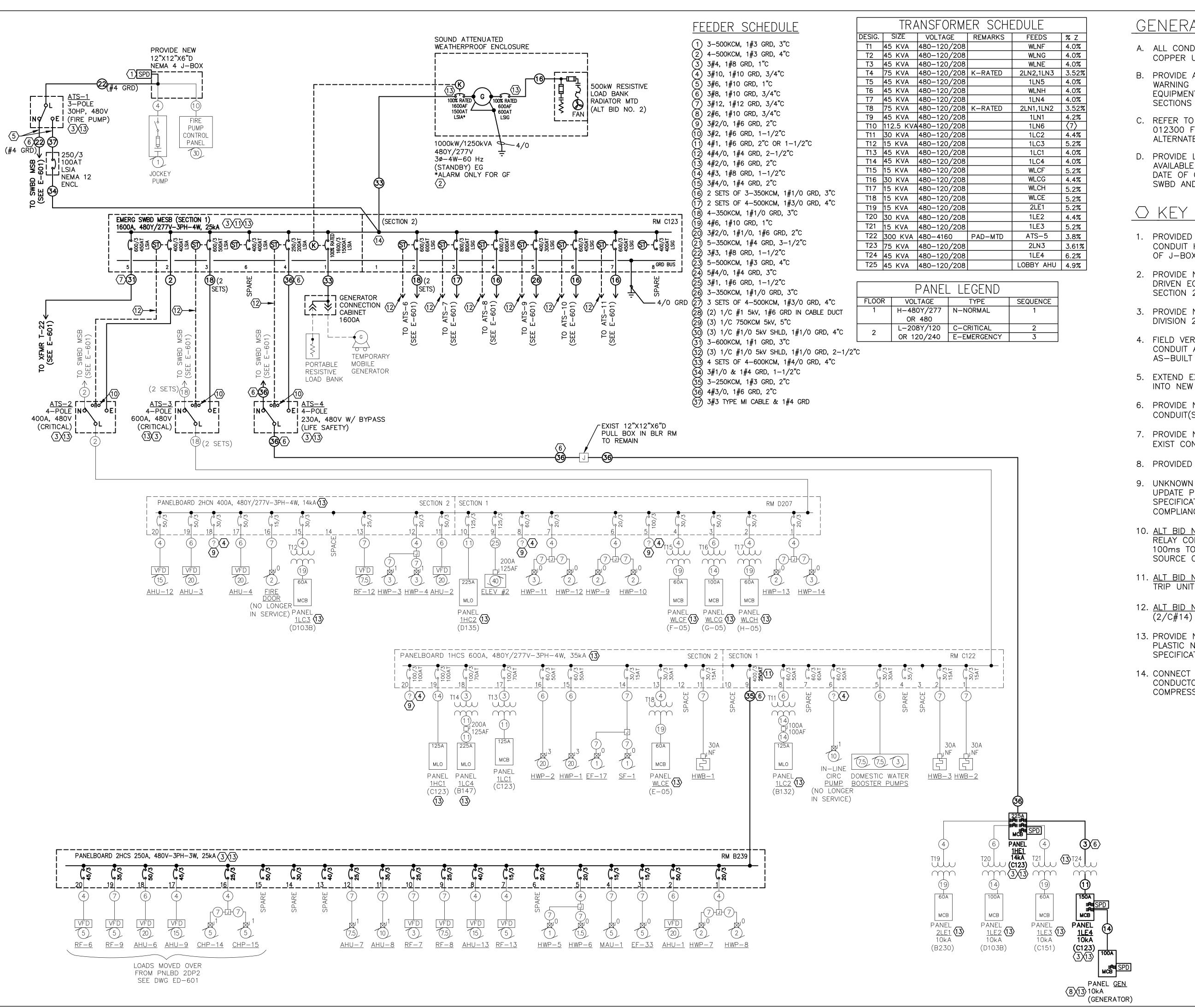
CAD DWG FILE: M1908-01-7355-

6517335013-E-601.DWG

DRAWN BY: CHECKED BY: DESIGNED BY: BDF SHEET TITLE:

ONE-LINE DIAGRAM

SHEET NUMBER:



- A. ALL CONDUCTORS/CABLES ARE COPPER UNLESS NOTED OTHERWISE.
- B. PROVIDE ARC FLASH HAZARD WARNING LABEL ON ALL ELECTRICAL EQUIPMENT PER SPECIFICATION SECTIONS 260553 & 260573.
- C. REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS.
- D. PROVIDE LABEL INDICATING MAX AVAILABLE FAULT CURRENT AND DATE OF CALCULATION ON EACH SWBD AND PNLBD PER NEC 408.6.

O KEY NOTES:

- 1. PROVIDED W/ FPATS. INSTALL IN CONDUIT HUB IN BOTTOM OR SIDE OF J-BOX.
- 2. PROVIDE NEW DIESEL-ENGINE-DRIVEN EG SET PER SPECIFICATION SECTION 263213.13.
- 3. PROVIDE NEW ELECT EQUIP PER DIVISION 26 SPECIFICATIONS.
- 4. FIELD VERIFY AND INDICATE CONDUIT AND CONDUCTOR SIZES ON AS-BUILT DWGS.
- 5. EXTEND EXIST BELOW FLR CONDUIT INTO NEW ATS-1.
- 6. PROVIDE NEW FEEDER IN EXIST CONDUIT(S).
- 7. PROVIDE NEW FEEDER IN NEW & EXIST CONDUIT(S).
- 8. PROVIDED W/ NEW EG SET.
- 9. UNKNOWN LOAD. TRACE CKT AND UPDATE PNLBD CKT DIRECTORY PER SPECIFICATION 260553 FOR COMPLIANCE WITH NEC 408.4(A).
- 10. ALT BID NO. 1: ANTI-PARALLELING RELAY CONTACT CLOSES AFTER 100ms TO TRIP EMERGENCY SOURCE CIRCUIT BREAKER.
- 11. <u>ALT BID NO. 1</u>: PROVIDE SHUNT TRIP UNIT ON EACH CB.
- 12. ALT BID NO. 1: $\frac{3}{4}$ "C-1 CABLE
- 13. PROVIDE NEW ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION SECTION 260553.
- 14. CONNECT FIRE PUMP CB FDR CONDUCTORS TO MAIN BUS WITH COMPRESSION LUGS.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

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CONSULTING ENGINEERS 1736 WEST PARK CENTER DR SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSTRUCTION**

DEPARTMENT OF MENTAL HEALTH

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ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET

PROJECT # M1908-01

REVISION:

DATE:

ST. LOUIS, MO 63139

7355 FACILITY # 6517335013

REVISION: DATE: REVISION: DATE:

ISSUE DATE: 10-10-2022

CAD DWG FILE: M1908-01-7355-6517335013-E-602.DWG

DRAWN BY: CHECKED BY: DESIGNED BY: BDF

SHEET TITLE: **ONE-LINE** DIAGRAM

SHEET NUMBER:

(R	M (C-123	3) (5)\(\)1\) NEW P	ANELB	AC	RD S	SCHEDULE		14	kA
PAN	VEL:	1H	<u>277/480</u> <u>277/480</u> <u>v 3</u> ph _	<u>4</u> w	N	IAIN:	225A MCB MOUN	TING:	SURF	ACE_
СКТ)LE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	PC	RR Siz	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION	$\exists z$	BR Siz	NO.
1	1	20	LTG. 1ST. FLOOR AREA A, B	3.9	Α	3.0	LTG. 2ND FLOOR AREA B, C	1	20	2
3	1	20	LTG. 1ST. FLOOR AREA D	3.9	В	3.5	LTG. 2ND. FLOOR AREA A, D	1	20	4
5	1	20	LTG. MECH AREAS, AREA C	2.9	С	2.7	LTG. WARD F	1	20	6
7	1	20	LTG. WARD E, AREA B	4.1	Α	2.7	LTG. WARD G	1	20	8
9	1	20			В	2.7	LTG. WARD H	1	20	10
11	3	50	TRANSFORMER T20 FOR PANEL 1LE2	3.6	С			1	20	12
13				3.6	Α			1	20	14
15				3.6	В			1	20	16
17	3	20	TRANSFORMER T21 FOR PANEL 1LE3	1.0	С			1	20	18
19				3.3	Α		SPD	3	30	20
21				3.0	В					22
23	3	20	TRANSFORMER T19 FOR PANEL 2LE1	1.7	С					24
25				3.5	Α		TRANSFORMER T24 FOR PANEL 1LE4	3	70	26
27				2.5	В					28
29	1	20	SPARE		С					30
			SUBTOTAL				SUBTOTAL			
	TC	OTAL	CONNECTED LOAD: KVA							

(F	RM I	B-230	D) EXISTING P	ANEL	BC	DARD	SCHEDULE		10	kA
PAN	NEL:	2L[<u>120/208</u> <u>y 3 ph 4</u>	_ W	١	IAIN:	60A MCB	_ MOUNTING:	SURF	ACE
CKT	POLE	BRKR. SIZE	LOAD		ASE		LOAD	l.	PULE BRKR. SIZE	СКТ
NO.	PC	BR SIZ	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION		기품	NO.
1	1	20	SMOKE DAMPERS	1.3	Α	1.2	FIRE SHUTTER B147		20	2
3	1	20	SMOKE DAMPERS	1.3	В	1.2	FIRE SHUTTER B146		20	4
5	1	20	PAGING SYSTEM	1.7	С				20	6
7	1	20	TELEPHONE OUTLET	1.0	Α				20	8
9	1	20			В				20	10
11	1	20			С				20	12
13	1	20			Α				20	14
15	1		SPACE		В				20	16
17	1		SPACE		С				20	18
19	1		SPACE		Α		SPACE			20
21	1		SPACE		В		SPACE			22
23	1		SPACE		С		SPACE			24
		•	SUBTOTAL				SUBTOTAL	•	•	
	TC	DTAL	CONNECTED LOAD: KVA							

	(GENERATOR) (5\sqrt{3}\sqrt{1}) NEW PANELBOARD SCHEDULE					10 kA		kA				
	PAN	IEL:	GEN	120/208 V 3 PH 4	_ W	N	AAIN:	100A MCB MOUNTIN	IG:	SURF	ACE_]
	СКТ	LE	KR. E	LOAD		SE		LOAD	POLE	KR.	СКТ	
	NO.	PC	BRKR. Size	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION] &	BRKR. SIZE	NO.	
$\langle 2 \rangle$	1	1	20	GENERATOR WINDING HEATER	.5	Α	3.5	JACKET WATER HEATER & CIRC PUMP	2	6.0	2	$\langle 2 \rangle$
$\langle \overline{2} \rangle$	3	2	25	ENCLOSURE UNIT HEATER	2.0	В	3.5		/		4	
	5	/ ·			2.0	С	1.2	BATTERY CHARGER	1	20	6	$\langle 2 \rangle$
[7	1	20	GFCI RECPTS	.36	Α	.5	BATTERY HEATERS	1	20	8	$\langle 2 \rangle$
$\langle 4 \rangle \langle 2 \rangle$	9	1	15	LOAD BANK CONTROLS	.5	В		SPARE	1	20	10	
$-\langle 2 \rangle$	11	1	15	LOUVER ACTUATORS	.5	С	1.0	FUEL PUMP	1	20	12	$\langle 2 \rangle$
	13	1	20	SPARE	.36	Α		SPD	3	30	14	
	15	1	20	SPARE	.5	В	·				16	
	17	1	15	SPARE	.5	С					18	
				SUBTOTAL	5.9		9.7	SUBTOTAL				

TOTAL	CONNECTED	LOAD:	15.6	KVA

(R	M [)–103	B) EXISTING	PANEL	BC	DARD	SCHEDULE		10	kA
PAN	IEL:	1LE	<u>120/208</u> <u>V 3 PH 4</u>	<u>1</u> w	١	IAIN:	100A_MCB MOUNTIN	G: .	SURF	ACE_
CKT NO.	LE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	9	BRI SIZ	DESCRIPTION	KVA	1	KVA	DESCRIPTION	S	BRI	NO.
1	1	20	SMOKE DAMPERS	1.3	Α	0.8	ELEVATOR #2 PIT	1	20	2
3	1	20	SMOKE DAMPERS	1.3	В	0.8	ELEVATOR #1 PIT	1	20	4
5	1	20	F.A.TRP MODULE	1.0	С	1.0	ELEVATOR #1 CONTROLS	1	20	6
7	1	20	F.A. CONTROL PANEL	1.0	Α	1.0	ELEVATOR #2 CONTROLS	1	20	8
9	1	20	AUDITORIUM P.A. SYSTEM	1.0	В	0.9	WARD F F.A. ANNUN., EMER. CALL.	1	20	10
11	1	20		1.0	С	0.9	WARD G F.A. ANNUN., EMER. CALL.	1	20	12
13	1	20			Α	0.9	WARD H F.A. ANNUN., EMER. CALL.	1	20	14
15	1	20			В	0.6	,	1	20	16
17	1	20			С	0.6	WARD G INTERCOM /DOOR ENTRY, P.A.	1	20	18
19	1	20			Α	0.6	WARD H INTERCOM /DOOR ENTRY, P.A.	1	20	20
21	1		SPACE		В	0.4	DOOR CONTROLS	1	20	22
23	1		SPACE		С	1.3	FIRE SHUTTER RM A212	1	20	24
25	1		SPACE		Α		SPACE	1		26
27	1		SPACE		В		SPACE	1		28
29	1		SPACE		С	,	SPACE	1		30
			SUBTOTAL				SUBTOTAL			
	TC	TAL	CONNECTED LOAD: KVA							

(R	RM (C-151) EXISTING F	PANEI	B	DARD	SCHEDULE		10	kA
PAN	NEL:	1LE	. <u>3 120/208 у 3 рн 4</u>	_ W	N	MAIN:	60A MCB M	OUNTING:	SURF	<u>ACE</u>
СКТ	POLE	BRKR. SIZE	LOAD		SE		LOAD	1 Cd	BRKR. SIZE	СК
NO.	PC	BR SIZ	DESCRIPTION	KVA	H	KVA	DESCRIPTION	م م	BR SIZ	NO
1	1	2.0	SMOKE DAMPERS	1.3	Α	1.0	F.A. TRP MODULE	1	2.0	2
3	1	2.0	SMOKE DAMPERS	0.9	В	.9	WARD E F.A. ANNUN., EMER. CAL	L, P.A. 1	20	4
5	1	2.0	SMOKE DAMPERS	0.6	С	.4	WARD E INTERCOM / DOOR ENTR	RY 1	20	(
7	1	2.0	SMOKE DAMPERS	1.0	Α			1	20	8
9	1	20	DOOR CONTROL UNIT POWER	1.2	В			1	20	10
11	1	20	TIME SWITCH	0.3	С			1	20	1:
13	1	20			Α			1	20	1.
15	1	20			В			1	20	1
17	1		SPACE		С			1	20	18
19	1		SPACE		Α			1	20	2
21	1		SPACE		В		SPACE	1		2:
23	1		SPACE	,	С		SPACE	1		2.
			SUBTOTAL				SUBTOTAL	•		
	TC	TAL	CONNECTED LOAD: KVA							

	(F	RM (C-123	(5) NEW PAN	1ELB	OA	RD S	SCHEDULE	10	kA
	PAI	NEL:	1LE	120/208 v 3 PH 4	_ W			MAIN: <u>150A MCB</u> MOUNTING:	<u>SURF</u>	ACE_
	СКТ	POLE	BRKR. SIZE	LOAD		SE		LOAD E	BRKR. SIZE	СКТ
	NO.	P0	SIZ SIZ	DESCRIPTION	KVA	HA	KVA	DESCRIPTION	BRI Siz	NO.
$\overline{2}$	1	3	80	EMERGENCY GENERATOR POWER PANEL	4.9	A		TEMP GENERATOR DOCKING STATION SHORE PWR 1	3.0	2
	3				6.0	В		TEMP GENERATOR DOCKING STATION SHORE PWR 1	30	4
	5				4.7	С		TEMP GENERATOR DOCKING STATION SHORE PWR 1	20	6
$\left(\frac{1}{2} \right)$	7	1	20	SWBD MESB1 & MESB2 SHUNT TRIP PWR	0.3	Α		SPARE 2	30	8
	9	1	20	SPARE		В				10
	11	1	20	SPARE		C		SPARE 1	20	12
	13	1	20	SPARE		Α		SPARE 1	20	14
	15	1	20	SPARE		В		SPARE 1	20	16
	17	1	20	SPARE		<u>C</u>		SPARE 1	20	18
	19	1	20	SPARE		Α		SPARE 1	20	20
	21	1	20	SPARE		В		SPARE 1	20	22
	23	1	20	SPARE		С		SPARE 1	20	24
	25	1	20	SPARE		Α		SPD 3	30	26
	27	1	15	SPARE		В				28
	29	1	15	SPARE		С				30
				SUBTOTAL				SUBTOTAL		

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A).
- C. REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS

O KEY NOTES:

- 1. PROVIDE NEW PANELBOARD WITH INTEGRALLY MOUNTED SPD PER SPECIFICATION SECTION 262416.
- 2. PROVIDE DEVICE THAT PREVENTS CB FROM BEING TURNED OFF BUT ALLOWS CB TO TRIP.
- 3. PROVIDED WITH NEW GENERATOR
- 4. ALT BID NO. 2.
- 5. PROVIDE $\frac{3}{4}$ "C-1 CABLE (2/C#18) TO BAS CNTRL PNL IN RM C123 FOR SPD STATUS.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR.

SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

SITE# 7355 FACILITY # 6517335013

REVISION: REVISION: DATE: **REVISION:** DATE:

ISSUE DATE: 10-10-2022

CAD DWG FILE: M1908-01-7355-6517335013-E-603.DWG

DRAWN BY: KET CHECKED BY: BDF DESIGNED BY: BDF

SHEET TITLE: PANEL SCHEDULES - LIFE SAFETY BRANCH

SHEET NUMBER:

(R	M (C-123	S) PANEL	BOAI	RD	SCH	IEDULE		25	kA
PAN	IEL:	1H(C1 <u>277/480</u> V <u>3</u> PH <u>4</u>	_ W	١	MAIN:	125A MLO MOUNTIN	G:	SURF	<u>ACE</u>
СКТ	LE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	PO	SIZ SIZ	DESCRIPTION	KVA	ЬН⊿	KVA	DESCRIPTION	8	BRI SIZ	NO.
1	1	20	MECH. ROOM AREAS	3.0	Α	4.2	LTG. WARD E E08,14,17,21,22,27-30(WING 1	p 8)	20	2
3	1	20	LTG. DINING/FOOD SERVICE	3.6	В	2.0	LTG. WARD E E86-106(WING 108)	1	20	4
5	1	20	DIETARY	2.5	С	2.0	LTG. WARD E E36-56(WING 58)	1	20	6
7	1	20	LTG. DENTAL,B109,110,B139-141,B102-106	3.0	Α	2.7	LTG. WARD E E59-82(WING 85)	1	20	8
9	1	20	LTG, MECH. RM. B239	1.9	В	2.6	VAV 179-182, 184-186, 188, 189	1	15	10
11	1	20	SPARE		C	2.5	VAV 183, 187, 190-192, 198	1	15	12
13	1	20	SPARE		Α	2.4	VAV 193-197	1	15	14
15	1	20	SPARE		В	2.7	VAV 1-9, 11-14 WARD "E"	1	15	16
17	1	20	SPARE		O	2.4	VAV 103-108, 113, 114, 117, 120	1	15	18
19	1	20	SPARE		Α	2.2	VAV 109-112, 115, 116, 119, 121	1	15	20
21	1	20	SPARE		В	3.0	VAV 135-147	1	15	22
23	1	20	SPARE		С	3.3	VAV 123-133	1	15	24
25	1	20	SPARE		Α	1.7	VAV 10, 15-18 WARD "E"	1	15	26
27	1	20	SPARE		В		SPARE	1	20	28
29	1	20	SPARE		C		SPARE	1	20	30
			SUBTOTAL				SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA							

		0-136	,				HEDULE MANAGEMENT OF THE PROPERTY OF THE PROPE	IN LTIN LO	14	
PAN		1HC						NTING:		
CKT)LE	BRKR. SIZE	LOAD		\SE		LOAD		BRKR. SIZE	C
NO.	P(BR SIZ	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION		BR SIZ	N
1	1	20	LTG. WARD F F08,14,17,21,22,27-30	4.2	Α	2.0	LTG WARD F F86-106,(WING F108)	1	20	
3	1	20	LTG. WARD F F36-56,(WING F58)		В	2.7	LTG. WARD F F59-82,(WING F85)	1	20	
5	1		LTG. WARD G G08,14,17,21,22,27-30	4.2	С		LTG. WARD G G86-106,(WING G108)	1	20	
7	1		LTG. WARD G G36-56,(WING G58)	2.0	Α		LTG. WARD G G59-82,(WING G85)	1	2.0	
9	1	20	LTG. WARD H H08,14,17,21,22,27-30	4.2	В		LTG WARD H H86-106,(WING H108)	1	20	
11	1	20	LTG. WARD H 36-56,(WING H58)	2.0	C		LTG. WARD H H59-82,(WING H85)	1	20	
13	1	20	LTG. MECH. RM. D207	2.5	Α	3.0	, , , , , , , , , , , , , , , , , , ,	1	15	
15	1	20			В	3.1	VAV 163, 165, 168, 169	1	15	
17	1	20			С	2.2	VAV 170-177	1	15	
19	1	20			Α	3.1		1	15	
21	1	20			В	2.7		1	15	
23	1		VAV 29, 33-36 WARD "F"	1.7	С	2.7	VAV 55-64, 66-68 WARD "H"	1	15	
25	1		VAV 47, 51-54 WARD "G"	1.7	Α	2.7	VAV 77-85	1	15	
27	1		VAV 65, 69-72 WARD "H"	1.7	В	2.2		1	15	
29	1		SPACE	3.0	C	2.2	VAV 96-101	1	15	
31	1		SPACE	,	Α			1	15	
33	1		SPACE		В		SPACE	1		
35	1		SPACE	,	С		SPACE	1		
37	1		SPACE		Α		SPACE	1		L
39	1		SPACE		В		SPACE	1		Ŀ
41	1		SPACE		C		SPACE	1		
			SUBTOTAL				SUBTOTAL			
	TO	TAL (CONNECTED LOAD: KVA			•				_

•		11.0	•	<i>A</i> w		MAINI.	125A_MCB	MOUNTING:	ELLI	<u>сп</u>
PAI	-	1L0		<u>.+</u> yy		MAIN:		MOUNTING:	1	<u> Эп</u>
CKT)E	BRKR. SIZE	LOAD	2	ASE		LOAD	Pole	BRKR. SIZE	СК
NO.	F(BR SIZ	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION	I A	HS S	NC
1	2	50	SPARE		Α	.8	AHU 8 CONTROLS	1	20	2
3	/ ·			.6	В	.8	AHU 13 CONTROLS	1	20	4
5	1	3.0	SPARE		С	.8	AHU 7 CONTROLS	1	20	6
7	1	3.0	SPARE		Α	.6	EMCS CONTROL POWER	1	20	8
9	1	20	SPARE		В	.8	VALVES B239	1	20	1
11	1	20	COOLING TOWER VALVES	.8	С		SPARE	3	6.0	1
13	1	20	LOUVERS	.8	Α					1.
15	1	20	HWB 1,2 CONTROLS	1.2	В					1
17	1	20	HWB 3 CONTROLS	.6	С	.6	VALVES	1	20	1
19	1	20	SIESMIC SENSOR/VALVES	1.0	Α		SPARE	1	20	2
21	1	20	FUEL OIL TANK MONITOR	.6	В	2.0	WATER HEATER	1	3.0	2
23	1	20	OXYGEN DEPRIVATION MONITOR	.6	С	2.0	WATER HEATER	1	3.0	2
25	1		SPACE		Α	1.0	TEMP VALVE SENSOR	1	20	2
27	1		SPACE		В		EMCS	1	20	2
29	1		SPACE		C		SPARE	1	20	3
			SUBTOTAL				SUBTOTAL			

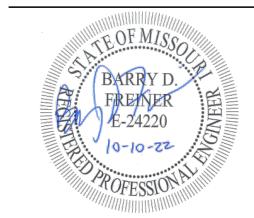
(R	M E	3–132) PANEI	BOA	RD	SCH	IEDULE		10	kA
PAN	IEL:	1L(<u> 120/208</u> <u>V_3_</u> PH_ <u>4</u>	_ W		MAIN:	125A_MLOMOUI	NTING:	_FLU	SH_
СКТ	POLE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	A.	RR Siz	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION		RR SIZ	NO.
1	1	20	RECPT. B110 EXAM. RM.	.4	Α	.4	RECPT. B102 SECURITY OFFICE	1	20	2
3	1	20	RECPT. B109 EXAM. RM.	.4	В	.4	RECPT. B102 SECURITY OFFICE	1	20	4
5	1	20	RECPT. B112 DENTAL EQUIP.	.2	С	.4	RECPT. A102 LOBBY DESK	1	20	6
7	1	20	RECPT. B112 DENTAL EQUIP.	.2	Α	.4	RECPT. B141 TELEPHONE EQUIP. RM.	1	2.0	8
9	1	20	RECPT. B113, B114 DENTAL EXAM.	.6	В	.4	RECPT. B141 TELEPHONE EQUIP. RM.	1	20	10
11	1	20	RECPT. B113, B114 DENTAL EXAM.	.4	С	.4	RECPT. B140 NIGHT CABINET	1	20	12
13	1	20	RECPT. B133 BLOOD DRAW/LAB.	.8	Α	.4	RECPT. B139 PHARMACY	1	20	14
15	1	20	RECPT. B127 CLEAN INSTR. LAB	.6	В	.4	RECPT. B139 PHARMACY	1	20	16
17	1	20	RECPT. B126 DARK RM.	.6	С	.4	RECPT. B139 PHARMACY	1	20	18
19	1	20	DOOR ELECT. CONTROL L-1 SOUTH-WEST	.5	Α	.4	RECPT. 136A	1	20	20
21	1	20	DOOR ELECT. CONTROL L-2 SOUTH-WEST	.5	В		PHARMACY REFRIGERATOR	1	20	22
23	1	20			С		SPACE	1		24
25	1	20			Α		SPACE	1		26
27	1	20			В			2	70	28
29	1	20			С					30
	٠		SUBTOTAL				SUBTOTAL		•	
	TO	TAL	CONNECTED LOAD: KVA							

(R	M I	D-10	B) PANE	LBOAI	₹D	SCH	EDULE		10	kA
PAN	NEL:	1L(3 <u>120/208</u> <u>V_3_</u> PH_ <u>4</u>	_ W	١	MAIN:	60A_MCBMOUNT	ING:	SURF	ACE
СКТ	POLE	BRKR. SIZE	LOAD		SE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	РС	RS SZ	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION	7	RS Siz	NO.
1	1	20	DOOR ELECT. CONTROL L-1 NORTH-WEST	.5	Α	.5	DOOR ELECT. CONTROL L-1 NORTH-WEST	1	20	2
3	1	20	RECEPT. L-2 A214	.8	В	.6	RECEPT. L-2 A214	1	20	4
5	1	20	DOOR ELECT. CONTROL L-1 NORTH-WEST	.6	С			1	2.0	6
7	1	20	RECEPT. L-2 A214	.6	Α			1	2.0	8
9	1	20			В			1	2.0	10
11	1	20			С			1	2.0	12
13	1	20			Α	,		1	2.0	14
15	1		SPACE		В	,		1	2.0	16
17	1		SPACE		С		SPACE	1		18
19	1		SPACE		Α	•	SPACE	1		20
21	1		SPACE		В		SPACE	1		22
23	1		SPACE		С		SPACE	1		24
			SUBTOTAL	·			SUBTOTAL			•
	TO:	TAL	CONNECTED LOAD: KVA				:			

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A).

(R	M E	3–147	') PANEL	BOA	RD	SCH	IEDULE		10	kA
PAN	IEL:	1LC	.4 <u>120/208</u> V <u>3 PH 4</u>	_ W	I	MAIN:	225A MLO MOUN			
СКТ	POLE	BRKR. SIZE	LOAD		PHASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	РС	SIZ	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION	\Box	RS SZ	NO.
1	1	20	FREEZER-EVAPORATOR	1.3	Α			3	5.0	2
3	1		COOLER EVAPORATOR	1.3	В					4
5	1		COOK/CHILL STOR EVAPORATOR	1.3	\circ					6
7	1	20	SPARE	Х	Α	2.3	ICE MAKER	1	20	8
9	1	20	COOK/CHILL STORLIGHTS, HEATER, ETC.	1.8	В	.8	RECPT. CASH REGISTER (FLOOR)	1	20	10
11	1	20	FREEZER-LIGHTS, HEATER, ETC.	1.8	С		SPARE	1	20	12
13	1		COOLER-LIGHTS, HEATER, ETC.	1.8	Α	1.27	FREEZER CONDENSING UNIT	3	20	14
15	1	20	RECPT. WORK TABLE (EAST)	.5	В	1.27		$\overline{}$		16
17	1	20	RECPT. WORK TABLE (EAST)	.5	С	1.27				18
19	1		RECPT. WORK TABLE (WEST)	.5	Α	.9	COOLER CONDENSING UNIT	3	20	20
21	1	20	RECPT. WORK TABLE (WEST)	.5	В	.9				22
23	1	20	HEAT TRACE-FREEZER LINE	1.6	С	.9				24
25	2	20			Α	.7	COOK/CHILL STOR. CONDENSING UNIT	3	20	26
27	. /				В	.7				28
29	1	20			С	.7				30
31	1	20	RECPT. WORK TABLE (WEST)	.5	Α			3	5.0	32
33	2	20	FOOD CHILLER	1.0	В					34
35	. /			1.0	С				-	36
37	1	20			Α			2	20	38
39	1	20			В					40
41	1	20			С			1	20	42
			SUBTOTAL			ı	SUBTOTAL			
	TO	TAL (CONNECTED LOAD: KVA							
			· · · · · · · · · · · · · · · · · · ·							

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE

OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

SITE # 7355 FACILITY # 6517335013

REVISION: REVISION: DATE: **REVISION:**

DATE: ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-E-604.DWG

DRAWN BY: KET
CHECKED BY: BDF
DESIGNED BY: BDF

SHEET TITLE: PANEL SCHEDULES - CRITICAL BRANCH

SHEET NUMBER:

(F	M I	E-05)) PANEL	BOA	RD	SCI	HEDULE		10	κA
PAN	IEL:	WL	CE 120/208 V 3 PH 4	_ W		MAIN:	60A MCB MOUNTIN	IG:	SURF	ACE_
СКТ	띨	BRKR. SIZE	LOAD		SE		LOAD	POLE	BRKR. SIZE	CKT
NO.	РС	BR SIZ	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION] &	BR SIZ	NO.
1	1	20	NIGHT LIGHTS E86, E89, E91, E94	.4	Α	.4	NIGHT LIGHTS E47, E50, E52, E55	1	20	2
3	1	20	NIGHT LIGHTS E97, E100, E102, E106	.4	В	.4	LIGHT LIGHTS E37, E39, E41, E44	1	20	4
5	1	2.0	FAN COIL UNITS EF-1	1.4	С	1.4	FAN COIL UNITS EF-3	1	2.0	6
7	1	2.0	RECEPTACLES E108	.4	Α	.4	RECEPTACLES E58	1	2.0	8
9	1	20	RECPT. NURSES STATION E29	.7	В	.9	MEDICATION ROOM RECPT/REF.	1	2.0	10
11	1	20	RECPT. NURSES STATION E29	.7	С	1.4	DAMPERS E57, E84	1	2.0	12
13	1	20	DAMPERS E10, E13, EF-4	1.6	Α	1.2	CORRIDOR RECEPTACLES E85	1	2.0	14
15	1	20			В	1.8	FAN COIL UNITS EF-2	1	20	16
17	1	20			С	1.0	NIGHT LIGHTS E59, E61, E79, E82	1	2.0	18
19	1	20			Α	1.0	NIGHT LIGHTS E65, E68, E71, E74, E76	1	20	20
21	2	30			В	1.2	VALVES, RV-1	1	2.0	22
23					С	1.4	AHU-1, EMCS POWER	1	2.0	24
			SUBTOTAL	·			SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA							

1)	RM	G-05) PANEL	.BOAI	RD	SCH	EDULE		10	kA
PAN	VEL:	WL	CG <u>120/208</u> <u>V_3_PH_4</u>	_ W	1	MAIN:	100A MCB MOUN	ITING:	SURF	<u>ACE</u>
СКТ	LE	BRKR. SIZE	LOAD		SE		LOAD	OLE	KR. E	CKT
NO.	PO	BRI SIZ	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION		BRKR. SIZE	NO.
1	1	20	NIGHT LIGHTS G86, G89, G91, G94	.4	Α	.4	NIGHT LIGHTS G47, G50, G52, G55	1	20	2
3	1	20	NIGHT LIGHTS G97, G100, G102, G106	.4	В	.4	LIGHT LIGHTS G37, G39, G41, G44	1	20	4
5	1	20	FAN COIL UNITS EF-9	1.4	С	1.4	FAN COIL UNITS EF-11	1	20	6
7	1	20	RECEPTACLES G108	.4	Α	.4	RECEPTACLES G58	1	20	8
9	1	20	RECPT. NURSES STATION G29	.7	В	.9	MEDICATION ROOM RECPT/REF.	1	20	10
11	1	20	RECPT. NURSES STATION G29	.7	С	1.4	DAMPERS G57, G84	1	20	12
13	1	20	DAMPERS G10, G13, EF-12	1.6	Α	1.2	CORRIDOR RECEPTACLES G85	1	20	14
15	1	20	AHU-12 CONTROL D-207	.8	В	1.8	FAN COIL UNITS EF-10	1	20	16
17	1	20	VALVES D-207	.8	С	1.0	NIGHT LIGHTS G59, G62, G79, G82	1	20	18
19	1	20	VALVES D-207	.8	Α	1.0	NIGHT LIGHTS G65, G68, G71, G74, G76	1	20	20
21	1	20	EMCS CIRCUIT D-207	1,0	В	1.2	VALVES, RV-3	1	20	22
23	2	30		٠	С	1.4	AHU-3, EMCS POWER	1	20	24
25	/ -				Α			1	20	26
27	1	20			В			1	20	28
29	1		SPACE		С		SPACE	1		30
			SUBTOTAL				SUBTOTAL	·		
	TO	TAL	CONNECTED LOAD: KVA							

(F	M 1	F-05)	PANEL	BOA	RD	SCH	IEDULE		10	kA
PAI	NEL:	: <u>W</u> L	CF <u>120/208</u> <u>V_3_PH_4</u>	_ W	١	MAIN:	60A MCB MC	IOUNTING:	SURF	<u>ACE</u>
CKT	POLE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	CKT
NO.	PC	BR SIZ	DESCRIPTION	KVA		KVA	DESCRIPTION		BR SIZ	NO.
1	1	20	NIGHT LIGHTS F86, F89, F91, F94	.4	Α	.4	NIGHT LIGHTS F47, F50, F52, F55	1	20	2
3	1	20	NIGHT LIGHTS F97, F100, F102, F106	.4	В	.4	LIGHT LIGHTS F37, F39, F41, F44	1	2.0	4
5	1	20	FAN COIL UNITS EF-5	1.4	C	1.4	FAN COIL UNITS EF-7	1	20	6
7	1	20	RECEPTACLES F108	.4	Α	.4	RECEPTACLES F58	1	20	8
9	1	20	RECPT. NURSES STATION F29	.7	В	.9	MEDICATION ROOM RECPT/REF.	1	20	10
11	1	20	RECPT. NURSES STATION F29	.7	С	1.4	DAMPERS F57, F84	1	20	12
13	1	2.0	DAMPERS F10, F13, EF-8	1.6	Α	1.2	CORRIDOR RECEPTACLES F85	1	20	14
15	1	2.0	AHU #2		В	1.8	FAN COIL UNITS, EF-6	1	20	16
17	1	2.0			С	1.0	NIGHT LIGHTS F59, F62, F79, F82	1	20	18
19	1	20			Α	1.0	NIGHT LIGHTS F65, F68, F71, F74, F7	76 1	20	20
21	1	20			В	1.2	VALVES, RV-2	1	20	22
23	1	20			С	1.4	AHU-2, EMCS POWER	1	20	24
			SUBTOTAL				SUBTOTAL	,		
	TO	TAL	CONNECTED LOAD: KVA							

(RM	H-05) PANEL	BOA	RD	SCH	EDULE		10	κA
PAI	NEL:	WL	CH 120/208 V 3 PH 4	_ W		MAIN:	60A MCB M	OUNTING:	SURF	ACE_
CKT	E E	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	CKT
NO.	PO	BR SIZ	DESCRIPTION	KVA	PH	KVA	DESCRIPTION		BR SIZ	NO.
1	1	2.0	NIGHT LIGHTS H86, H89, H91, H94	.4	Α	.4	NIGHT LIGHTS H47, H50, H52, H55	1	20	2
3	1	20	NIGHT LIGHTS H97, H100, H102, H106	.4	В	.4	LIGHT LIGHTS H37, H39, H41, H44	1	20	4
5	1	2.0	FAN COIL UNITS EF-13	1.4	С	1.4	FAN COIL UNITS H58, EF-15	1	20	6
7	1	2.0	RECEPTACLES H108	.4	Α	.4	RECEPTACLES H58	1	20	8
9	1	2.0	RECPT. NURSES STATION H29	.7	В	.9	MEDICATION ROOM RECPT/REF.	1	20	10
11	1	2.0	RECPT. NURSES STATION H29	.7	С	1.4	DAMPERS H57, H84	1	20	12
13	1	20	DAMPERS H10, H13, EF-16	1.6	Α	1.2	CORRIDOR RECEPTACLES W85	1	20	14
15	1	20			В	1.8	FAN COIL UNITS EF-14	1	20	16
17	1	20			С	1.0	NIGHT LIGHTS H59, H62, H79, H82	1	20	18
19	1	20			Α	1.0	NIGHT LIGHTS H65, H68, H71, H74, H	176 1	20	20
21	1	20			В	1.2	VALVES, RV-4	1	20	22
23	1	20			С	1.4	AHU-4, EMCS POWER	1	20	24
			SUBTOTAL			·	SUBTOTAL	•		
	TO	TAL	CONNECTED LOAD: KVA							

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A).

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT

ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

7355 FACILITY # 6517335013

REVISION: REVISION: DATE: **REVISION:**

ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-E-605.DWG

DRAWN BY:
CHECKED BY:
DESIGNED BY:
BDF

SHEET TITLE: PANEL SCHEDULES - CRITICAL BRANCH

SHEET NUMBER:

23 OF 26 SHEETS

OCTOBER 10, 2022

,		C-151	,	BOA	₹D	SCH	HEDULE		42	kA
PAI	NEL:	<u>1HN</u>	1 <u>277/480</u> V <u>3</u> PH <u>4</u>	_ W		MAIN:	225A MLO MOUNTIN	G:	SURF	ACE
СКТ	POLE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	A	RI SIZ	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION	PC	BR SIZ	NO.
1	1	20	LTG. CORRIDOR	3.3	Α	4.3	LTG. MEETING ROOMS & OFFICES	1	20	2
3	1	20	LTG. LIBRARY	4.0	В	3.9	LTG. CORRIDOR	1	20	4
5	1	20	LTG. FORENSIC OFFICE AREAS	3.9	С	4.0	LTG. CORRIDOR C136,137,139,152-155,144,147,	1418	20	6
7	1	20	LTG. C142, C150	1.2	Α	4.2	LTG. C112-114,128-130,133, 134	1	20	8
9	1	20	WARD E	2.5	В	4.2	LTG. C103-111	1	2.0	10
11	1	20	WARD E	3.0	С	4.0	LTG. C101-103,118-120,C115,124-127	1	20	12
13	1	2.0	WARD E CUH-1 E96	3.8	Α	2.8	LTG. EXTERIOR	1	2.0	14
15	1	20	WARD E CUH-1 E46	3.8	В	3.0	LTG. COURT YARD	1	20	16
17	1	20	WARD E CUH-1 E64	3.8	С	4.3	LTG. QUAD 4 ENTRANCE	1	20	18
19	1	20			Α	3.7	LTG. CENTER LOOP	1	20	20
21	1	20			В	4.3	LTG. QUAD 3 ENTRANCE	1	3.0	22
23	1		SPACE		С	2.4	LTG. FORENSIC COURT YARD	1	20	24
25	1		SPACE		Α			1	20	26
27	1		SPACE		В			1	20	28
29	1		SPACE		C			1	20	30
			SUBTOTAL			٠	SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA							

(R	M (C-123	S) PANEL	BOAI	RD	SCH	IEDULE		10	kA
PAI	NEL:	_1LN	1-2A <u>120/208</u> <u>V_3_</u> PH_ <u>4</u>	_ W		MAIN:	100A MCB MOUNTIN	√G:	SURF	ACE
СКТ	빌	BRKR. SIZE	LOAD		SE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	9	BRI SIZ	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION	78	BRI SIZ	NO.
1	2	6.0	HALL FURNACE		Α		MAIN	3	100	2
3					В					4
5	2	6.0	HALL FURNACE		С					6
7					Α		SPD FURNACE	2	7.0	8
9	2	6.0	SPARE		В			/ :		10
11					С	.4	RECEPTS AT PANEL & STAIR LANDING	1	2.0	12
13	2	20	SPARE		Α		CLOTHES DRYER - HOUSEKEEPING	2	3.0	14
15					В					16
17	1	20	WASHING MACHINE - HOUSEKEEPING		С		SPACE	1		18
19	1		SPACE		Α		SPACE	1		20
21	1		SPACE		В		SPACE	1		22
23	1		SPACE		С		SPACE	1		24
			SUBTOTAL	÷			SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA			·			·	

•)–135	<u>′</u>	.BOAI	RD	SCH	IEDULE		25 I	
PAN	NEL:	1HI	<u>277/480</u> <u>4</u>	_ W		MAIN:	225A MLO MOUNTIN	√ G:	SURF	<u>ACE</u>
СКТ	POLE	BRKR. SIZE	LOAD		ASE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	P	BR SIZ	DESCRIPTION	KVA		KVA	DESCRIPTION	٦2	BR SIZ	NO.
1	1	20	LTG. D113,124-127	3.6	Α		LTG. A106 OPEN OFFICE	1	20	2
3	1	20	LTG. D146-151,D157-161	3.9	В	3.0	LTG. A106 OPEN OFFICE	1	20	4
5	1		LTG. D130-134, CORRIDOR D112,123,128-129	3.8	С	4.0	LTG. D101-103,106,107,111	1	20	6
7	1	20	LTG. D109,110,115,117,121,122,127,137	3.9	Α	3.2		1	20	8
9	1	20	CORRIDOR LTG.	2,5	В	2.5	LGT. WARD G G02,06,07,12,15,18	1	20	10
11	1	20	LTG. WARD F F02,06,07,12,15,18	2.5	С	3.0	LTG. WARD G G04,10,11,13,16,19,35	1	20	12
13	1	20	LTG. WARD F F04,10,11,16,19,31,32,35,57,107	3.0	Α		LTG. WARD H H02,06,07,12,15,18	1	20	14
15	1	20	GYM LIGHTING	6.8	В	3.0	LTG. WARD H H04,10,11,13,16,19,35	1	20	16
17	1	20	GYM LIGHTING	8.0	С	3.8	· · · · · · · · · · · · · · · · · · ·	1	20	18
19	1	20	LTG. 139-143	2.4	Α	3.8	, ,	1	3.0	20
21	1	20	EXTERIOR BUILDING LTG. (NORTH HALF)	3.9	В	3.8		1	20	22
23	1	20			С	3.8	WARD G, CUH-1, G96	1	20	24
25	1		SPACE		Α	3.8	WARD G, CUH-1, G46	1	20	26
27	1	20			В	3.8	· · · · · · · · · · · · · · · · · · ·	1	20	28
29	1		SPACE		С	3.8	WARD H, CUH-1, H96	1	20	30
31	1		SPACE		Α	3.8	· · · · · · · · · · · · · · · · · · ·	1	20	32
33	1		SPACE		В	3.8	WARD H, CUH-1, H64	1	3.0	34
35	1		SPACE		С			1	20	36
37	1		SPACE		Α			1	20	38
39	1		SPACE		В			1	20	40
41	1		SPACE		С		SPACE	1		42
			SUBTOTAL				SUBTOTAL			
	TO	TAL (CONNECTED LOAD: KVA							

(F	RM I	B-23	D) PANEI	_BOAI	RD	SCH	HEDULE		14	κA
PAI	NEL:	_2HN	<u>277/480</u> <u>V 3</u> PH <u>4</u>	_ W		MAIN:	125A MLO MOUNTIN	G:	SURF.	<u>ACE</u>
СКТ	POLE	BRKR. SIZE	LOAD		SE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	P 8	BRI SIZ	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION	9	BRI	NO.
1	1	20	LTG. WEST OFFICES	4.0	Α	3.8	LTG. ACCOUNTING OPEN & OFFICES	1	2.0	2
3	1	20	LTG. OPEN OFFICES B223	3.0	В	3.9	LTG. ACCOUNTING OPEN OFFICES	1	2.0	4
5	1	20	LTG. OPEN OFFICES B211A	3.0	С	3.4	LTG. CORRIDOR & N. CONFERENCE ROOMS	1	20	6
7	1	2.0	LTG. CONFRENCE, REST RMS. & OFFICES	3.8	Α	3.5	LTG. WEST OFFICES	1	20	8
9	1	20	LTG. CORRIDOR B219	3.7	В	1.8	LTG. 2ND FLOOR LOBBY	1	2.0	10
11	1	20	LTG. OPEN OFFICE AND OFFICES S.E.	3.7	С			1	20	12
13	1	2.0		,	Α		SPACE	1		14
15	1	2.0			В		SPACE	1		16
17	1	2.0			С		SPACE	1		18
19	1	2.0			Α		SPACE	1		20
21	1	20	•		В		SPACE	1		22
23	1	2.0			С	٠	SPACE	1		24
25	1		SPACE		Α		SPACE	1		26
27	1		SPACE		В		SPACE	1		28
29	1		SPACE		С		SPACE	1		30
			SUBTOTAL				SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA							

		-123)		X_4 PAN		RD	SCH	EDULE		10	kA
PAŅE			120/208	V <u>3</u> PH_	_ <u>4</u> W		MAIN:	150A MCB MOUN	TING:		
кт 🖺	BRKR.	ابر	LOAD			ASE		LOAD	POLE	BRKR. SIZE	СКТ
10.		7 5	DESCRIPTION		KVA	H	KVA	DESCRIPTION		BRI SIZ	NO.
1 :	1 20	RECF	PT. DOCK AREA		.4	Ā	.6	RECPT. C119, C120	1	20	2
3	1 20		RHEAD DOOR C101		1.0	В	.6	RECPT. COURT YARD NORTH	1	20	4
5	1 20	RECF	PT. C101, C102		.8	С	1.0	RECPT. DINING RM. B144	1	20	6
7 :	1 20	RECF	PT. C118		.6	Α	1.4	CHEMICAL FEED/WATER SOFTENER	.1	20	8
9 2	2 50) KILN			3.0	В	.8	RECPT. C123	.1	20	10
11					3.0	С	.8	RECPT. C123A	1	20	12
3 2	2 40) BAIL	ER		3.0	Α	.8	RECPT. C121	1	20	14
15	/				3.0	В	1.0	RECPT. C121, C122, C123	1	20	16
7 :	1 20				.6	С	.8	CHILLER #1	1	20	18
9 :	1 20		35,36		1.7	Α	.8	CHILLER #2	1	20	20
21 :	1 2(34,37		1.7	В	1.0	UNIT HEATER 7, 8, 9, 10	1	20	22
23 :	1 20		LING TOWER HEAT TRACE	•		С	1.8	SF-2, LOUVER, RV-13	. 1	20	24
:5	1 20		LING TOWER HEAT TRACE			Α	.8	EF-18, RV-12	.1	20	26
27 :	1 20		32, FCU-5, SF-3, RV-14		.7	В	.8	REVOLVING STORAGE	1	20	28
29 1	1 30		K LOCK SYSTEM		1.9	С	.8	REVOLVING STORAGE	1	20	30
31 :	1 30) STB-	-1, (FAN, PUMP)		1.7	Α	.8	REVOLVING STORAGE	.1	20	32
33 3	3 20) SPAF	₹E			В		SPARE	1	20	34
35						С		SPARE	1	20	36
37						Α		SPARE	1	20	38
39 3	3 3() SPAF	₹E			В		SPARE	1	20	40
41						С		SPARE		20	42
13						Α		SPARE		20	44
	2 20)				В	.4	ROOF MOUNTED RECEPT.	.1	20	46
17						С		SPARE	.1		48
19 2	2 60)				Α		LOADING DOCK SCALE	1	20	50
51						В		SPARE	1	20	52
53 2	2 30)				С		SPARE	1	20	54
55	\					Α		PANEL 1LN1-2A ON STAIR LANDING	3	90	56
57 2	2 50)				В					58
59	\					С					60
				SUBTOTAL				SUBTOTAL			
T(JATC	CONN	ECTED LOAD:	KV	A						

(F	RM E	3-23	D) (2) PANEL	BOA	RD	SCH	IEDULE		10	kA
PAI	NEL:	2LI	N1 120/208 V 3 PH 4	_ W		MAIN:	225A MCB MOUNTIN	√G:	SURF	<u>ACE</u>
CKT	OLE	BRKR. SIZE	LOAD	KVA	IASE		LOAD	POLE	BRKR. SIZE	CKT NO.
				KVA		KVA		<u> </u>		
1	1		RECPT. B227, B228	1.0	Α		RECPT. B236	1	20	2
3	1		RECPT. B226, B227	1.0	В		RECPT. B236	1	20	4
5	1		RECPT. B224, B225	1.0	C		RECPT. B234, B235	1	20	6
7	1		RECPT. B221A, OPEN OFFICE	.8	Α		RECPT. B231A, B237, B238	1	20	8
9	1	20	RECPT. B210	.8	В		RECPT. B238, COPIER	1	20	10
11	1	20	RECPT. B209	1.0	C	.6	RECPT. B231	1	20	12
13	1		RECPT. B207, B208	.8	Α	.8	RECPT. B231	1	20	14
15	1	20	RECPT. B206, B207	.8	В	.6	RECPT. B231	1	20	16
17	1	20	RECPT. B205, B206	.8	С	1.0	RECPT. B232	1	20	18
19	1	20	RECPT. B205	1.0	Α	8.	RECPT. CORRIDOR B219	1	20	20
21	1	20	RECPT. B204	.8	В	1.2	RECPT. B232, B233, B234	1	20	22
23	1	20	RECPT. B211	.8	С	.6	RECPT. B229	1	20	24
25	1	20	BATHROOM OUTLETS, B202, B203	.4	Α	.6	RECPT. B214, B215, B216	1	20	26
27	1	20	RECPT. B216, B217	1.0	В	.8	RECPT. B214, B215	1	20	28
29	1	20	RECPT. B211A, OPEN OFFICE	.8	С	.8	RECPT. B211A, OPEN OFFICE	1	20	30
31	1	20	RECPT. B211A, OPEN OFFICE	.8	Α	1.0	RECPT. B218, E.W.C.	1	20	32
33	1	20	RECPT. B211A, OPEN OFFICE	.8	В	1.2	RECPT. B212	1	20	34
35	1	20	RECPT. B223, OPEN OFFICE	.8	С	.4	RECPT. B213	1	20	36
37	1	20	RECPT. B223, OPEN OFFICE	.8	Α	1.4	RECPT. B213, COPIER	1	20	38
39	1	20	RECPT. B223, OPEN OFFICE	.8	В	1.2	EF-22, EF-23	1	20	40
41	1		RECPT. B223, OPEN OFFICE	.8	c			1	20	42
43	1	20	AHU-9 CONTROL	.8	Α			1	20	44
45	1	20	AHU-6 CONTROL	.8	B			1	20	46
47	1	20	RECPT. B239	.6	С		AIR HANDLER UV LIGHTS	2	20	48
49	1	20	RECPT. B239	.6	Α					50
51	1	20	RECPT. B222	.4	B		SPACE	1		52
53	1	20	RECPT. B211A	.4	c		SPACE	1		54
55	1	20		<u>.</u>	Ā	16	PANEL 1LN2 - ROOM B-132	3	125	56
57	1		SPACE		B	16				58
59	1		SPACE	<u>.</u>	c	1.6		<u> </u>		60
	<u> </u>	<u>I</u>	SUBTOTAL				SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA		<i>x///</i>					

(R	M E	B-132	PANE	LBOA	RD	SCH	IEDULE		10	kA
PAN	IEL:	1LN	<u>120/208</u> у <u>3</u> рн <u>4</u>	<u>-</u> w		MAIN:	125A_MLOMOUNTIN	NG:	FLU	SH_
CKT	LE	BRKR. SIZE	LOAD		SE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	РС	SZ	DESCRIPTION	KVA]¥	KVA	DESCRIPTION	78	BRI	NO.
1	1	20	RECPT. B122, FORENSIC EVALUATION	1.0	Α	1.2	RECPT. CORRIDOR B142	1	20	2
3	1	20	RECPT. B128, RECEPTION (AMS)	.8	В	.8	RECPT. B129 WAITING RM (AMS)	1	20	4
5	1	20	RECPT. B124 (ON CALL), B125 RESTROOM	.8	С	.8	RECPT. CORRIDOR B115, B123, B138	1	20	6
7	1	20	RECPT. B120 MEETING RM, B121 WAITING RI		Α	.8	RECPT. B107, LIBRARY SOUTH-EAST	1	20	80
9	1	20	RECPT. B118 MEETING RM, B119 OFFICE	.8	В	1.0	RECPT. B107, LIBRARY NORTH	1	20	10
11	1	20	RECPT. B117 OFFICE, B118 MEETING RM	1.0	С	.6	RECPT. B107, LIBRARY WEST	1	20	12
13	1	20	RECPT. B116 OFFICE	.6	Α	.6	RECPT. B106, LIBRARY CONFERENCE RM	1	20	14
15	1	20	RECPT. B111, EMPLOYEE H OFFICE	.6	В	.6	RECPT. A102 LOBBY, B103 E.W.C.	1	20	16
17	1	20	RECPT. B135, B136, B137	.8	С	.6	RECPT. B108, STOR./WORK RM, B101	1	20	18
19	1	20	RECPT. CORRIDOR 132, RECEPTION (AMS)	.8	Α	.6	RECPT. B101, OFFICE	1	20	20
21	1	20			В			1	20	22
23	2	3.0			С			1	20	24
25	/				Α			1	20	26
27	1	20			В			1	20	28
29	1	20			С			1	20	30
			SUBTOTAL				SUBTOTAL			
	TC	DTAL	CONNECTED LOAD: KVA	-						

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A).

○ KEY NOTES:

- 1. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1-24 ARE IN SECTION 1 AND CKTS 25-60 ARE IN SECTION 2.
- 2. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1-30 ARE IN SECTION 1 AND CKTS 31-60 ARE IN SECTION 2.
- 3. REPLACE EXIST 60A/3P CB WITH NEW 90A/3P CB TO MATCH EXIST. RETURN ÉXIST CB TO OWNER.
- 4. REPLACE (2) MISSING SCREWS IN DEAD FRONT PANEL.

(R	M.	A-216	6) (2) PANEL	BOA	RD	SCH	IEDULE		10	κA
PAN	NEL:	2L1	N2120/208	_ W		MAIN:	225A MCB MOUNTIN	1G:	SURF	ACE_
СКТ	Щ	중.'''	LOAD		SE		LOAD	Ш	유.'''	СКТ
NO.	PO	BRKR. SIZE	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION		BRKR. SIZE	NO.
1	1	20	RECPT. A209	.6	Α	.6	RECPT. D204, WEST	1	20	2
3	1	20	RECPT. A210	.6	В	.4	RECPT. D205	1	20	4
5	1		RECPT. A208	1.0	С	.8	RECPT. D206		20	6
7	1	20	RECPT. A204, CORRIDOR A211	.8	Α	.8	RECPT. D204, NORTH	1	20	8
9	1	20	RECPT. A204, A206	.8	В	.8	RECPT. D204, NORTH	1	20	10
11	1	20	RECPT. A201, A202, A204, A204	.8	С	.8	RECPT. D204, CENTER	1	20	12
13	1	20	RECPT. A201, A202, A203	.8	Α	.8	RECPT. D204, CENTER	1	20	14
15	1	20	RECPT. A201, A202, A203	.8	В	.8	RECPT. D204, CENTER	1	20	16
17	1	20	RECPT. D201, A212	.8	С	.8	RECPT. D204, CENTER	1	20	18
19	1	20	RECPT. D204, WEST	.8	Α	.8	RECPT. D204, CENTER	1	20	20
21	1	20	RECPT. D202	1.0	В	.8	RECPT. D204, CENTER	1	20	22
23	1	20	RECPT. D203	1.0	С	.8	RECPT. D204, SOUTH	1	20	24
25	1	20	RECPT. A212	.6	Α	.8	RECPT. D204, SOUTH	1	20	26
27	1	20	RECPT. A212	1.0	В	.8	RECPT. CORRIDOR A220	1	20	28
29	1	20	RECPT. A221	.4	С	.6	RECPT. A221	1	20	30
31	1	20	RECPT. A215, A217, A218	1.0	Α	.8	RECPT. D204, EAST COLUMN	1	20	32
33	1	20	RECPT.KITCHEN A219	.8	В	.8	RECPT. A213	1	20	34
35	1	20	RECPT. D207 UNIT #6	1.0	С			1	20	36
37	1	20	RECPT. D207	1.0	Α	6.0	PANEL 1LN3 - ROOM D-103B	3	125	38
39	1	20	AHU-11 CONTROLS	.8	В	6.2				40
41	1	20	AHU-5 CONTROLS	.8	С	6.2		T.		42
43	1	20	AHU-10 CONTROLS	.8	Α			1	20	44
45	1	20			В			1	20	46
47	1	20			С			1	20	48
49	1	20			Α			1	20	50
51	1	20			В			1	20	52
53	1	20			С		SPACE	1	.	54
55	1	20			Α		SPACE	1		56
57	1	20			В		SPACE	1	.	58
59	1	20			С		SPACE	1	.	60
		•	SUBTOTAL				SUBTOTAL			
	TO	TAL	CONNECTED LOAD: KVA							

(F	M E)–103	B) PANEL	BOAF	RD	SCH	EDULE		10 I	κA
PAN	NEL:	_1LN	13 120/208 V 3 PH 4	_ W	١	MAIN:	225A MLO MOUNTI	NG:	SURF	ACE_
CKT	LE	ŔŖ. E	LOAD		SE		LOAD	믜	유.미	CKT
NO.	PO	BRKR. SIZE	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION	POLE	BRKR. SIZE	NO.
1	1	20	OPEN OFFICE AREA A106, EAST WALL	.8	Α	.8	RECPT. D111, BARBER/BEAUTY	1	20	2
3	1	20	OPEN OFFICE AREA A106, EAST WALL	.8	В	.8	RECPT. D111, BARBER/BEAUTY	1	20	4
5	1	20	OPEN OFFICE AREA A106, CENTER	.6	С	.8	RECPT. D111, BARBER/BEAUTY	1	20	6
7	1	20	OPEN OFFICE AREA A106, CENTER	.6	Α	.8	RECPT. D111, BARBER/BEAUTY	1	20	8
9	1	20	OPEN OFFICE AREA A106, CENTER	.6	В	.8	RECPT. D111, BARBER/BEAUTY	1	20	10
11	1	20	OPEN OFFICE AREA A106, CENTER	.6	С	.4	RECPT. D111, BARBER/BEAUTY	1	20	12
13	1	20	OPEN OFFICE AREA A106, CENTER	.6	Α	.8	RECPT. D109, D110	1	20	14
15	1	20	OPEN OFFICE AREA A106, CENTER	.6	В	.8	RECPT. CORRIDOR A107	1	20	16
17	1	20	OPEN OFFICE AREA A106, NORTH WALL	.6	С	.8	RECPT. D101, D102	1	20	18
19	1	20	OPEN OFFICE AREA A106, NORTH WALL	.4	Α	.6	RECPT. D102	1	20	20
21	1	20	OPEN OFFICE AREA A106, WEST WALL	.6	В	.6	RECPT. D103, E.W.C.	1	20	22
23	1	20	OPEN OFFICE AREA A106, WEST WALL	.6	С	.6	RECPT. D104, D106	1	20	24
25	1	20	OPEN OFFICE AREA A106, WEST WALL	.8	Α	.8	RECPT. D105, D106	1	20	26
27	1	20	OPEN OFFICE AREA A106, SOUTH WALL	.8	В	.8	RECPT. EQUIP. RM A105	1	20	28
29	1	20			С	1.0	VESTIBULE AUTO DOORS & CUH-2	1	20	30
31	1	20			Α			1	20	32
33	1	20			В			1	20	34
35	1	20			С			1	2.0	36
			SUBTOTAL				SUBTOTAL	•	•	
	TO	ΓAL	CONNECTED LOAD: KVA			_			_	

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE

OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01 SITE # 7355

FACILITY # 6517335013 **REVISION:** DATE:

REVISION:

DATE: **REVISION:** DATE: ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-E-606.DWG DRAWN BY: KET
CHECKED BY: BDF DESIGNED BY: BDF

SHEET TITLE:

PANEL SCHEDULES - EQUIPMENT BRANCH

SHEET NUMBER:

24 OF 26 SHEETS

OCTOBER 10, 2022

(R	M C	-207	7)	PANEL	BOA	RD	SCH	EDULE		10	kA
PAN	NEL:	2LI	N3 120/208 V	/ <u>3</u> PH <u>4</u>	_ W	N	MAIN:	200A MCB MOUNTIN	₽G:	SURF	<u>ACE</u>
СКТ	LE	BRKR. SIZE	LOAD			SE		LOAD	POLE	BRKR. SIZE	СКТ
NO.	PO	BRI SIZ	DESCRIPTION		KVA	PHASE	KVA	DESCRIPTION	18	BRI SIZ	NO.
1	3	20	FITNESS ROOM RECPT - NORTH V	WALL		Α		FITNESS ROOM RECPT - NORTH WALL	2	20	2
3	/-					В			<u> </u>		4
5						С		AHU-5, 10, 12 UV LIGHTS	2	20	6
7	1					Α					8
9	1					В		AHU-11 UV LIGHTS	2	20	10
11	1					С		<u> </u>			12
13	1					Α			1		14
15	1					В			1		16
17	1					С	,		1		18
19	1					Α			1		20
21	1		<u> </u>			В			1		22
23	1					С			1		24
25	1					Α			1		26
27	1		A.			В			1		28
29	1					С			1		30
31	1					Α			1		32
33	1					В			1		34
35	1					С			1	,	36
37	1		4			A			1		38
39						В			1		40
41	1				•	C			<u> 1</u>		42
			SI	UBTOTAL				SUBTOTAL			
	TO	ΓAL	CONNECTED LOAD:	KVA							

(F	M (C—151) <u>(1</u>) PANEL	BOA	RD	SCH	IEDULE		10	 kA
PAN	NEL:	1LN	4 <u>120/208</u> <u>V 3 PH 4</u>	_ W		MAIN:	150A MCB MOUN	ΠNG:	SURF	ACE
CKT			LOAD		띯		LOAD	Щ	œ.,	СКТ
NO.	20L	BRKR. SIZE	DESCRIPTION	1///	PHAS	1///	DESCRIPTION	POLE	BRKR. SIZE	NO.
1	1		RECPT. C164, D144	KVA 1.0	_	KVA 1.2	RECPT. C168, C169, D145	1	20	
3	1		RECPT. C161, C162, C163	1.2	A B		RECPT. C167, C168	1	2.0	4
<u> </u>	1		RECPT. C161, C162, C163, C164	.8	C		RECPT. C166, C167	$\frac{1}{1}$	20	6
7	1		RECPT. C161, C162, C163, C164, D144	1.0	Ā	.4	BATHROOM OUTLET C149, C156	1	20	8
	1		RECPT. CORRIDOR B143, C157, C158, C160	1.0	B	1.4	WASHER RECPTACLE	1	2.0	10
1	1		RECPT. CORRIDOR C107, C116, C117, C131-13	321.2	C	2.6	DRYER	2	3.0	12
3	1	20	RECPT. C144	.8	Α	2.6				14
5	1	20	RECPT. C144	.6	В	.6	RECPT. C155	1	2.0	16
7	1	20	RECPT. C147	.8	С	.6	RECPT. C154	1	2.0	18
9	1	20	RECPT. C148	.4	Α	.6	RECPT. C134, C135	1	2.0	20
21	1	20			В	.8	RECPT. C133, C134	1	2.0	22
3	1		RECPT. C165	.4	C	.8	RECPT. C133	1	2.0	24
25	1	2.0	BATHROOM OUTLETS, C126, C127 & C125	.6	Α	.8	RECPT. C112, C113	1	2.0	26
7	1		RECPT. C128	.4	В	1.2	RECPT. C111, C113	1	20	28
9	1		RECPT. C129, C130	1.0	С	1.0	RECPT. C109, C110, C111	1	20	30
31	1		RECPT. C114	.8	A	.6	RECPT. C108	1	2.0	32
3 5	1		RECPT. C115 RECPT. E.W.C. CORRIDOR C132	.8	В	.6	RECPT. C108 RECPT. C105	1	2.0	34
57	1		RECPT. C137	.6 .6	C	.6 .6	RECPT. C105	1	20	36 38
9	1		RECPT. C139	.6	A B		RECPT. C102, C104	1	2.0	40
ŀ1	1		PLUGMOLD STRIP C140	.8	C		RECPT. C102, C103	+	20	42
.3	1		PLUGMOLD STRIP C140	.8	<u> ~</u>		EF-20	 	20	44
.5	3		RECPT. C140 TEST OUTLET	-	B	.6	RECEPT C136	1	20	46
7			· == ·		C			1	20	48
9					Ā			1	20	50
51	1		SPACE		В			1	20	52
3	1		SPACE		С			1	2.0	54
5	1		SPACE		Α			1	20	56
57	1		SPACE		В			1	20	58
59	1		SPACE		С			1	2.0	60

TOTAL CONNECTED LOAD:

SUBTOTAL

•		D-135	·				IEDULE 1254 MCP MOUN	ITINO	10	
		1LN		_ W	_	MAIN:		ITING:		_
CKT	POLE	BRKR. SIZE	LOAD		PHASE		LOAD	POLE	BRKR. SIZE	Ck
NO.	۵	BF SI;	DESCRIPTION	KVA	PH	KVA	DESCRIPTION	l g	FP SS	N
1	1		RECPT. D146, D147	.8	Α	.8	RECPT. D140, D141, D142, D143	1	20	
3	1		RECPT. D148, D149	.8	В	.8	RECPT. D141, D142, D143	1	20	
5	1		RECPT. D149	.6	С	.8	RECPT. D139, D149, D141, D142, D143	1	20	
7	1	20	RECPT. D150	.6	Α	.8	RECPT. D138, D140	1	2.0	
9	1	20	RECPT. D151, E.W.C.	.6	В	.8	RECPT. D156, D157	1	20	1
11	1		RECPT. CORRIDOR D152, D155, D153	.6	С	.8	RECPT. D158, D159	1	2.0	
13	1	20	RECPT. CORRIDOR D129, D153	.6	Α	.8	RECPT. D159, D160	1	20	1
15	1	20	RECPT. CORRIDOR D112, D123, D128	.6	В	.8	RECPT. D160, D161	1	2.0	
17	1	20	RECPT. D125, SOUTH WALL	.6	C	.6	RECPT. GYM D138, EAST WALL	1	20	
19	1		RECPT. D125, NORTH WALL	.4	Α	.8	RECPT. GYM D138, NORTH WALL	1	20	
21	1		RECPT. D113, D124	.6	В	.6	RECPT. GYM D138, SOUTH WALL	1	2.0	
23	1	20	RECPT. D109, E.W.C.	.6	C	.8	RECPT. D135, D136, D137	1	20	
25	1	20	BATHROOM OUTLETS, D115, D116, D120, D122	2 .8	Α	.8	RECPT. D127	1	2.0	
27	1	20	RECPT. D133, D134, SALES OFFICES	.8	В	.4	RECPT. EXTERIOR SOUTH WALL	1	2.0	
29	1	20			С			2	5.0	
31	1	20	EF-21	.6	Α			_		
33	1	20	RECPT. SALES COUNTER	.8	В	1.0	RECPT. D126 REFRIGERATOR	1	2.0	Ι,
35	1	20	RECPT. SALES COUNTER	1.0	С	.4	RECPT. D126 COUNTERTOP	1	2.0	
37	1	20	RECPT. SALES COUNTER.	.6	Α	1.0	LIGHT CONTROLLER	1	2.0	
39	1	20	RECPT. SALES STORAGE	.8	В			1	2.0	
41	1	20	RECEPT VENDING D130	.8	С			1	20	
43	1	20	RECEPT VENDING D130	.8	Α			1	2.0	
45	1	20	RECEPT VENDING D130	.8	В			1	20	
47	1	20			С			1	2.0	
49	1	20			Α			1	2.0	
51	1	20			В			1	20	
53	2	3.0	CANTEEN		С			1	2.0	
55	eg				Α			1	20	
57	1	20			В			1	2.0	
59	1	20			С			1	20	
			SUBTOTAL				SUBTOTAL	·		
-	TO	ΓAL(CONNECTED LOAD: KVA							

PAN	NFI:	1LN	<u>120/208</u> <u>120/208</u> v <u>3</u> PH_4			MAIN:	400A MLO M	OUNTING:	FLU	SH
					Ж		LOAD		1	_
NO.	PO	BRKR. SIZE	DESCRIPTION	KVA	ΉĀ	KVA	DESCRIPTION	POLE	BRKR. SIZE	N
1	1		RECPT. SERVICE OF DRY STORAGE	.5	Ā		DISPOSER	3	20	<u> </u>
3	1		RECPT. DRY FOOD, COOK/CHILL	.8	B	1.6	Biol Golik	K		
5	1		RECPT. BEVERAGE COUNTER	.8	C	1.6				1
7	1		RECPT. 20 QUART MIXER	1.2	Ā		60 QUART MIXER	3	20	
9	1		RECPT. BAKERS TABLE	.8	В				1	1
11	1		RECPT. HOT WATER DISPENSER	1.3	C					1
13	3		60 QUART MIXER	1.3	Δ		DISPOSAL/TROUGHVEYOR	3	30	
15				1.3	B					1
17				1.3	C	2.3				1
19	3	20	DISPOSER	1.6	A		RECPT. SOFT SERVE COUNTER	1	20	2
21				1.6	B		RECPT. SOFT SERVE	1	20	2
23				1.6	C		RECPT. BACK BAR COUNTER	1	20	2
25	1	20	SERVING COUNTER COMPRESSOR	1.2	Ā		RECPT. STORAGE CABINET	1	20	
27	1		STEAM TABLE	1.4	В		RECPT. DRY FOOD STORAGE TABLE	1	20	
29	1		HOT FOOD CABINET	1.9	C		EXHAUST HOOD LIGHTS	1	20	13
31	1		REFRIGERATOR	1.3	Ā		GRIDDLE	3	4.0	
33	1		RECPT. DIETARY CONVENIENCE	1.4	В	3.7				13
35	2		TOAST CONVEYOR	2.1	c	3.7				
37				2.1	Ā		HOT FOOD WELLS AT SERVING CTR.	3	4.0	1
39	1	20	RECPT. SERVING CONVENIENCE	.8	B					
41	1		MICROWAVE	1.8	C	2.3				1
43	1	20	COOK/CHILL HOOD LIGHTS	.36	Ā		TRAY ACCUMULATOR	1	20	1 4
45	2		COFFEE MAKER	2.8	В		RECEPTACLE	1	20	
47	<u> </u>	//		2.8	С		COOK/CHILL TUMBLER	3	20	4
49	1	20	TEA BREWER	1.77		1.3				5
51	1		COOK/CHILL RECORDER	2.4						5
53	3	100	UTILITY DIST. PANEL	9.0	С	.8	RECEPT BEVERAGE COUNTER	1	2.0	5
55				9.0	Α			1	2.0	5
57				9.0	В			2	2.0	5
59	1	20	COOK/CHILL RECPT.	1.2	С					6
61	3	8.0	ICE BUILDER	5.4	_			1	20	6
63	abla			5.4	_			1	2.0	6
65		$\overline{}$		5.4	_			1	20	1
67	3	20	ICE BUILDER CONDENSOR	2.1	Α	1.2	SOFT SERVE MACHINE	2	3.0	1
69				2.1	В				$\overline{}$	7
71	,			2.1	С			1	20	7
73	1	20	DROP IN COMPRESSOR	1.1	Α			1	20	7
75	2	30	FLOOR RECEPTACLE	2.0	В			2	20	7
77	<u> </u>			2.0	С				$\overline{}$	7
79	1	20	FLOOR RECEPTACLE	1.5	Α		SPACE	1		8
81	1	20	VENDING	.6	В		SPACE	1		8
83	1	20	MICROWAVE	.8	С		SPACE	1		٤
			SUBTOTAL				SUBTOTAL			
					////					

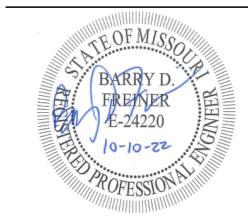
GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553.

O KEY NOTES:

- 1. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1-24 ARE IN SECTION 1 AND CKTS 25-60 ARE IN SECTION 2.
- 2. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1-42 ARE IN SECTION 1 AND CKTS 43-84 ARE IN SECTION 2.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE

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DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01

SITE # 7355 FACILITY # 6517335013

REVISION: DATE: REVISION: DATE: **REVISION:**

DATE:

ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-E-607.DWG

DRAWN BY: KET
CHECKED BY: BDF DESIGNED BY: BDF

SHEET TITLE: PANEL SCHEDULES

- EQUIPMENT BRANCH

SHEET NUMBER:

(F	RM	E-05)) (1) PANEL	BOA	RD	SCH	IEDULE		10	κA
PAN	VEL:	WL	NE <u>120/208</u> v <u>3</u> ph <u>4</u>	_ W		MAIN:	150A_MCBMC	UNTING:	SURF	ACE_
CKT	щ	6,	LOAD		R		LOAD	щ	8	CKT
NO.	PO	BRKR. SIZE	DESCRIPTION	KVA	PHASE	KVA	DESCRIPTION	POLE	BRKR. SIZE	NO.
1	1		BATHROOM OUTLET E70, E72	.8	A		RECPT. E59, E76, E79, E82	1	20	2
3	1		BATHROOM OUTLET E61, E67	.8	B		RECPT. E59, E76, E79, E82	1	20	4
5	1		BATHROOM OUTLET E75, E81	.8	c	.8	RECPT. E73, E76, E79, E82	1	20	6
7	1		CORRIDOR RECEPTACLES	1.4	Ā	.8	RECPT. E62, E65, E68, E73	1	20	8
9	1	20	CORRIDOR RECEPTACLES	1.2	B	.8	RECPT. E62, E65, E68, E73	1	20	10
11	1	20	RECPT. E58	.4	C	.8	RECPT. E59, E62, E65, E68	1	20	12
13	1	20	BATHROOM OUTLET E49, E54	.8	Α	.8	RECPT. E47, E50, E52, E55	2	3.0	14
15	1	20	BATHROOM OUTLET E38, E43	.8	В	.8	RECPT. E47, E50, E52, E55			16
17	1	20	KITCHEN COUNTER OUTLETS	.8	C	.8	RECPT. E47, E50, E52, E55	1	2.0	18
19	1	20	REFRIDGERATOR	.9	A	.8	RECPT. E36, E39, E41, E44	1	2.0	20
21	1	20	MIRCOWAVE, ICE MACHINE	1.4	В		RECPT. E36, E39, E41, E44	1	2.0	22
23	1	20	GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	С	.8	RECPT. E36, E39, E41, E44	1	20	24
25	1	20	DAY ROOM RECPT.	.8	Α	.8	RECPT. E86, E89, E91, E94	1	20	26
27	1	20	RECPT. E17, E18, E20	1.0	В	.8	RECPT. E86, E89, E91, E94	1	20	28
29	1	20	RECPT. E07	1.0	С	.8	RECPT. E86, E89, E91, E94	1	20	30
31	1	20	RECPT. E06	1.0	Α	.8	RECPT. 97, E100, E102, E104	1	20	32
33	1	20	RECPT. E06, E12	.8	В	.8	RECPT. 97, E100, E102, E104	1	2.0	34
35	1	20	RECPT. E14, E15	1.2	C	.8	RECPT. 97, E100, E102, E104	1	20	36
37	1	2.0	RECPT. WATER FOUNTAIN	.8	A	2.6	DRYER	2	3.0	38
39	1	20	RECPT. E08, E09, E10	1.0	В	2.6				40
41	1	20	WASHER RECEPTACLE	1.4	С	.4	RECPT. E106, E108	1	20	42
43	1	20	RECPT. E34, E35, TELEPHONE	.8	Α	.8	BATHROOM OUTLET E88, E93	1	20	44
45	1	20	RECPT. E27, E28	.8	В	.8	BATHROOM OUTLET E99, E104	1	20	46
47	1	20	RECPT. E28, E29, E30	.8	С	1.5	RADIANT PANELS	1	20	48
49	1	20	RECPT. E03, UH-1	.9	Α		RADIANT PANELS	1	20	50
51	1	20			В	1.5	RADIANT PANELS	1	20	52
53	1	20			С			1	20	54
55	1	20			Α			1	20	56
57	1	20			В			1	20	58
59	1	20			С			1	20	60
			SUBTOTAL			·	SUBTOTAL	·		
	TC	OTAL	CONNECTED LOAD: KVA							
			$\underline{\bigvee} \triangle$	R	\Box	:	,, <u> </u>			

(R	М (G-05)) 1 PANEL	BOA	RD	SCH	IEDULE		10	kA
PAN	IEL:	WL	NG 120/208 V 3 PH 4	_ W		MAIN:	150A_MCBMOI	UNTING:	SURF	ACE
СКТ	LE	Ж. П	LOAD		ASE		LOAD	Ы	Ж. П	СКТ
NO.	POLE	BRKR. SIZE	DESCRIPTION	KVA	₹	KVA	DESCRIPTION	POLE	BRKR. SIZE	NO.
1	1	2.0	BATHROOM OUTLET G70, G72	.8	Ā		RECPT. G59, G76, G79, G82	1	20	2
3	1		BATHROOM OUTLET G61, G67	.8	B	.8	RECPT. G59, G76, G79, G82	1	2.0	4
5	1	20	BATHROOM OUTLET G75, G81	.8	С	.8	RECPT. G73, G76, G79, G82	1	2.0	6
7	1	20	CORRIDOR RECEPTACLES	1.4	Α	.8	RECPT. G62, G65, G68, G73	1	2.0	8
9	1	20	CORRIDOR RECEPTACLES	1.2	В	.8	RECPT. G62, G65, G68, G73	1	20	10
11	1	20	RECPT. G58	.4	С	.8	RECPT. G59, G62, G65, G68	1	20	12
13	1	20	BATHROOM OUTLET G49, G54	.8	Α	.8	RECPT. G47, G50, G52, G55	1	20	14
15	1	2.0	BATHROOM OUTLET G38, G43	.8	В	.8	RECPT. G47, G50, G52, G55	1	20	16
17	1	2.0	KITCHEN COUNTER OUTLETS	.8	С	.8	RECPT. G47, G50, G52, G55	1	20	18
19	1	2.0	REFRIDGERATOR	.9	Α	.8	RECPT. G36, G39, G41, G44	1	20	20
21	1	2.0	MIRCOWAVE, ICE MACHINE	1.4	В	.8	RECPT. G36, G39, G41, G44	1	20	22
23	1	2.0	GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	С	.8	RECPT. G36, G39, G41, G44	1	20	24
25	1	2.0	DAY ROOM RECPT.	.8	Α	.8	RECPT. G86, G89, G91, G94	1	20	26
27	1	2.0	RECPT. G17, G18, G20	1.0	В	.8	RECPT. G86, G89, G91, G94	1	20	28
29	1	2.0	RECPT. G07	1.0	С	.8	RECPT. G86, G89, G91, G94	1	20	30
31	1	2.0	RECPT. G06	1.0	Α	.8	RECPT. 97, G100, G102, G104	1	20	32
33	1	2.0	RECPT. G06, G12	.8	В	.8	RECPT. 97, G100, G102, G104	1	2.0	34
35	1		RECPT. G14, G15	1.2	С	.8	RECPT. 97, G100, G102, G104	1	2.0	36
37	1	2.0	RECPT. WATER FOUNTAIN	.8	Α	2.6	DRYER	2	3.0	38
39	1	2.0	RECPT. G08, G09, G10	1.0	В	2.6				40
41	1	2.0	WASHER RECEPTACLE	1.4	С	.4	RECPT. G106, G108	1	2.0	42
43	1	2.0	RECPT. G34, G35, TELEPHONE	.8	Α	.8	BATHROOM OUTLET G88, G93	1	20	44
45	1		RECPT. G27, G28	.8	В	.8	BATHROOM OUTLET G99, G104	1	20	46
47	1	2.0	RECPT. G28, G29, G30	.8	С	1.5	RADIANT PANELS	1	20	48
49	1	2.0	RECPT. G03, UH-3	.9	Α	1.5	RADIANT PANELS	1	20	50
51	1	2.0			В	1.5	RADIANT PANELS	1	20	52
53	1	2.0			С			1	2.0	54
55	1	2.0			Α			1	2.0	56
57	1	2.0			В			1	20	58
59	1	2.0			С			1	2.0	60
			SUBTOTAL				SUBTOTAL			
	TC	TAL	CONNECTED LOAD: KVA	_					_	

WARD

•		-05)	_	BOAI	RD	SCH	HEDULE		10	kA
PAN	IEL:	WLI	NF <u>120/208</u> v <u>3</u> ph <u>4</u>	_ W		MAIN:	150A MCB MOUNTIN	IG:	SURF	ACE
СКТ	LE	KR. E	LOAD		SE		LOAD	F	BRKR. SIZE	CK1
NO.	8	BRKR. SIZE	DESCRIPTION	KVA	PHA	KVA	DESCRIPTION	POLE	BR SIZ	NO.
1	1		BATHROOM OUTLET F70, F72	.8	A		RECPT. F59, F76, F79, F82	1	20	2
3	1		BATHROOM OUTLET F61, F67	.8	В	.8	RECPT. F59, F76, F79, F82	1	20	4
5	1	20	BATHROOM OUTLET F75, F81	.8	С	.8	RECPT. F73, F76, F79, F82	1	20	6
7	1	20	CORRIDOR RECEPTACLES	1.4	Α	.8	RECPT. F62, F65, F68, F73	1	20	8
9	1	20	CORRIDOR RECEPTACLES	1.2	В	.8	RECPT. F62, F65, F68, F73	1	20	10
11	1	20	RECPT. F58	.4	С	.8	RECPT. F59, F62, F65, F68	1	20	12
13	1	20	BATHROOM OUTLET F49, F54	.8	Α	.8	RECPT. F47, F50, F52, F55	1	20	14
15	1	20	BATHROOM OUTLET F38, F43	.8	В	.8	RECPT. F47, F50, F52, F55	1	20	16
17	1	20	KITCHEN COUNTER OUTLETS	.8	С	.8	RECPT. F47, F50, F52, F55	1	20	18
19	1		REFRIDGERATOR	.9	Α	.8	RECPT. F36, F39, F41, F44	1	20	20
21	1		MIRCOWAVE, ICE MACHINE	1.4	В	.8	RECPT. F36, F39, F41, F44	1	20	22
23	1		GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	С	.8	RECPT. F36, F39, F41, F44	1	20	24
25	1		DAY ROOM RECPT.	.8	Α	.8	RECPT. F86, F89, F91, F94	1	20	26
27	1		RECPT. F17, F18, F20	1.0	В	.8	RECPT. F86, F89, F91, F94	1	20	28
29	1		RECPT. F07	1.0	C	.8	RECPT. F86, F89, F91, F94	1	20	30
31	1		RECPT. F06	1.0	Α	.8	RECPT. 97, F100, F102, F104	1	20	32
33	1		RECPT. F06, F12	.8	В	.8	RECPT. 97, F100, F102, F104	1	20	34
35	1		RECPT. F14, F15	1.2	С	.8	RECPT. 97, F100, F102, F104	1	20	36
37	1		RECPT. WATER FOUNTAIN	.8	Α	2.6	DRYER	2	3.0	38
39	1	20	RECPT. F08, F09, F10	1.0	В	2.6				40
41	1	20	WASHER RECEPTACLE	1.4	С	.4	RECPT. F106, F108	1	20	42
43	1		RECPT. F34, F35, TELEPHONE	.8	Α	.8		1	20	44
45	1		RECPT. F27, F28	.8	В		BATHROOM OUTLET F99, F104	1	20	46
47	1		RECPT. F28, F29, F30		С		RADIANT PANELS	1	20	48
49	1		RECPT. F03, UH-2	.9	Α	1.5	RADIANT PANELS	1	20	50
51	1	20			В	1.5	RADIANT PANELS	1	20	52
53	1	20	_		С	,		1	20	54
55	1	20			Α			1	20	56
57	1	20			В		SPACE	1		58
59	1	20			C		SPACE	1		60
			SUBTOTAL				SUBTOTAL			
	TC	TAL	CONNECTED LOAD: KVA							

•		H-05	<i>'</i>				IEDULE		10	
		WLI		_ W	_	MAIN:	150A_MCB	MOUNTING:		
СКТ	빌	BRKR. SIZE	LOAD		ASE		LOAD		BRKR. SIZE	СК
NO.	8	BR SIZ	DESCRIPTION	KVA	PH/	KVA	DESCRIPTION	8	BR SIZ	NC
1	1	20	BATHROOM OUTLET H70, H72	.8	Α	.8	RECPT. H59, H76, H79, H82	1	20	2
3	1	20	BATHROOM OUTLET H61, H67	.8	В	.8	RECPT. H59, H76, H79, H82	1	20	4
5	1	20	BATHROOM OUTLET H75, H81	.8	С	.8	RECPT. H73, H76, H79, H82	1	20	ϵ
7	1	20	CORRIDOR RECEPTACLES	1.4	Α	.8	RECPT. H62, H65, H68, H73	1	20	8
9	1	20	CORRIDOR RECEPTACLES	1.2	В	.8	RECPT. H62, H65, H68, H73	1	20	1
11	1	20	RECPT. H58	.4	С	.8	RECPT. H59, H62, H65, H68	1	20	1:
13	1	20	BATHROOM OUTLET H49, H54	.8	Α	.8	RECPT. H47, H50, H52, H55	1	20	1.
15	1	20	BATHROOM OUTLET H38, H43	.8	В	.8	RECPT. H47, H50, H52, H55	1	20	1
17	1	20	KITCHEN COUNTER OUTLETS	.8	С	.8	RECPT. H47, H50, H52, H55	1	20	1
19	1	20	REFRIDGERATOR	.9	Α	.8	RECPT. H36, H39, H41, H44	1	20	2
21	1	20	MIRCOWAVE, ICE MACHINE	1.4	В		RECPT. H36, H39, H41, H44	1	20	2
23	1	20	GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	С		RECPT. H36, H39, H41, H44	1	20	2
25	1		DAY ROOM RECPT.	.8	Ā		RECPT. H86, H89, H91, H94	1	20	2
27	1	20	RECPT. H17, H18, H20	1.0	В	.8	RECPT. H86, H89, H91, H94	1	20	2
29	1	20	RECPT. H07	1.0	С	.8	RECPT. H86, H89, H91, H94	1	20	3
31	1	20	RECPT. H06	1.0	Α	.8	RECPT. 97, H100, H102, H104	1	20	3
33	1	20	RECPT. H06, H12	.8	В		RECPT. 97, H100, H102, H104	1	20	3
35	1	20	RECPT. H14, H15	1.2	С		RECPT. 97, H100, H102, H104	1	20	3
37	1	20	RECPT. WATER FOUNTAIN	.8	Α		DRYER	2	3.0	3
39	1	20	RECPT. H08, H09, H10	1.0	В	2.6				4
41	1	20	WASHER RECEPTACLE	1.4	С	.4	RECPT. H106, H108	1	20	4
43	1	20	RECPT. H34, H35, TELEPHONE	.8	Α	.8	BATHROOM OUTLET H88, H93	1	20	4
45	1	20	RECPT. H27, H28	.8	В	.8	BATHROOM OUTLET H99, H104	1	20	4
47	1	20	RECPT. H28, H29, H30	.8	С	1.5	RADIANT PANELS	1	20	4
49	1	20	RECPT. H03, UH-4	.9	Α	1.5	RADIANT PANELS	1	20	5
51	1	20			В	1.5	RADIANT PANELS	1	20	5
53	1	20			С			1	20	5
55	1	20			Α			1	20	5
57	1	20			В			2	3.0	5
59	1	20			С					6
			SUBTOTAL				SUBTOTAL			

WARD "H"

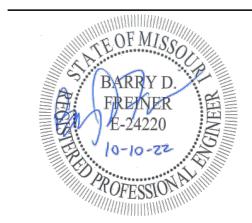
GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553.

O KEY NOTES:

1. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1-36 ARE IN SECTION 1 AND CKTS 37-60 ARE IN SECTION 2.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



BARRY D. FREINER Registered Professional Engineer MO # E-24220 Expires 12-31-2022

ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS

1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF MENTAL HEALTH

CHANGE IN SCOPE RE-BID: REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE

ST. LOUIS FORENSIC TREATMENT CENTER -SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139

PROJECT # M1908-01 7355

FACILITY # 6517335013 **REVISION:**

REVISION: DATE: **REVISION:**

ISSUE DATE: <u>10-10-2022</u>

CAD DWG FILE: M1908-01-7355-6517335013-E-608.DWG

DRAWN BY:
CHECKED BY:
DESIGNED BY:
BDF

SHEET TITLE:

PANEL SCHEDULES - EQUIPMENT BRANCH

SHEET NUMBER: