MEMPHIS INTERNATIONAL AIRPORT

MEMPHIS, TENNESSEE



OWNER / SPONSOR: MEMPHIS-SHELBY COUNTY AIRPORT AUTHORITY MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

MSCAA PROJECT NUMBER 19-1423-30

BID SET

NOVEMBER 06, 2024



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INDEX SHEET NO.	SHEET NAME
	GENERAL
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Memphis, TN 38018
(901) 755-7166
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ARCHITECT JOB NO. 20008-Txx

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REVISIONS	
xxxxx	XX
DESCRIPTION	DATE

MSCAA NO. 19-1423-30

PROJECT:

MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

SHEET TITLE:

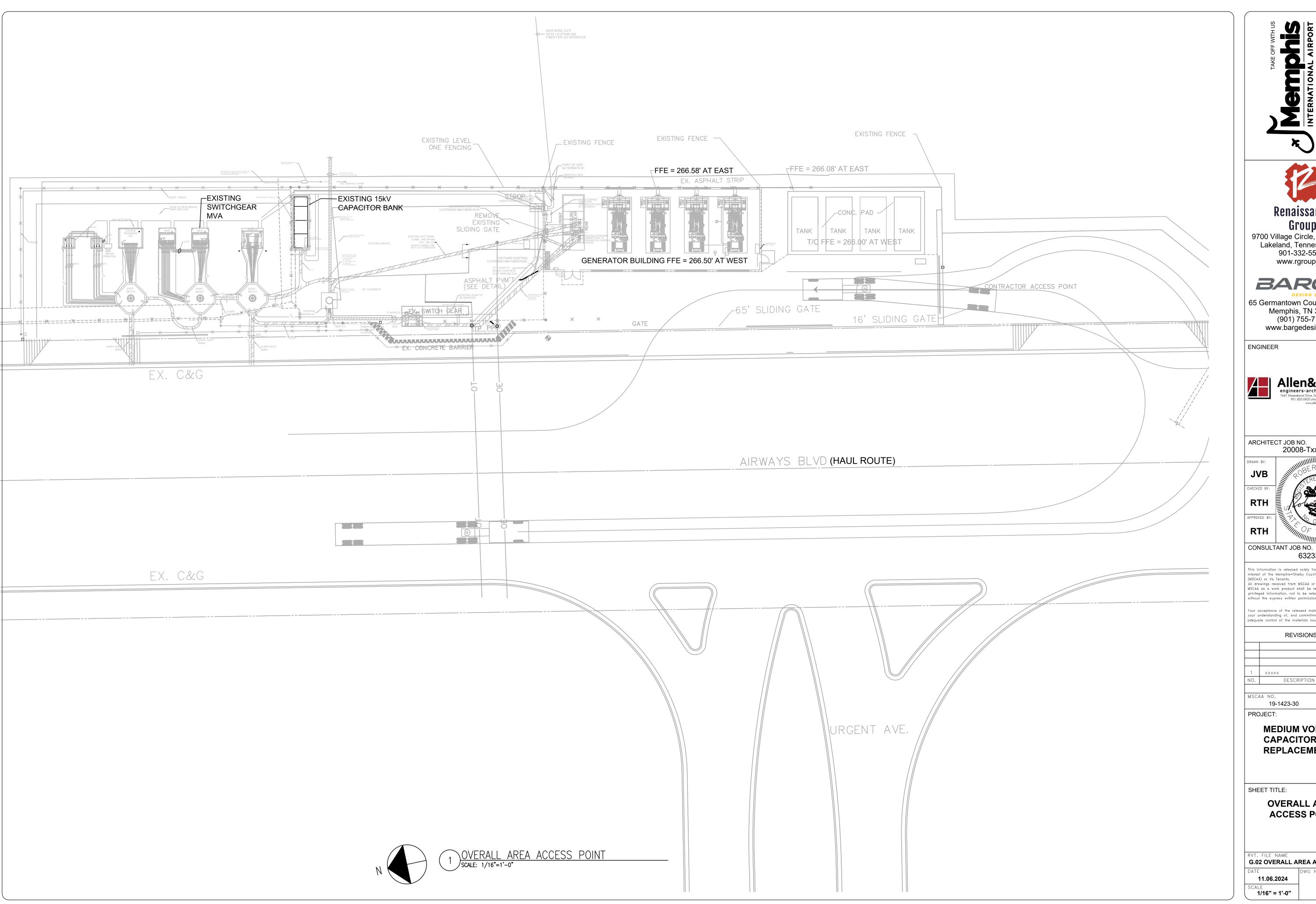
SHEET INDEX

G.01 SHEET INDEX

11.06.2024

SCALE **NONE**

G.01







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1661 International Drive, Suite 100 • Memphis, TN 38120
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DESCRIPTION

19-1423-30

MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

OVERALL AREA ACCESS POINT

G.02 OVERALL AREA ACCESS POINT

G.02

GENERAL PROJECT NOTES:

- 1. WORK SHALL NOT START UNTIL APPROVED BY THE PROGRAM MANAGER. PRIOR TO THE START OF WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING INFORMATION FOR REVIEW BY THE PROGRAM MANAGER:
- A DETAILED PROGRESS SCHEDULE SHOWING THE PROPOSED SCHEDULE OF
- 2. THE CONTRACTOR IS ADVISED THAT FAILURE TO COMPLETE WORK IN THE ALLOTTED TIME-INCLUDING INTERMEDIATE MILESTONE AND TOTAL PROJECT TIME-WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES
- 3. THE CONTRACTOR SHALL COMPLY WITH ALL CITY OF MEMPHIS REQUIREMENTS FOR WEIGHT LIMITS, CLEANING AND MAINTENANCE OF STREETS FOR ALL OPERATIONS ON CITY STREETS AND CONNECTIONS. ANY DAMAGE DONE TO THE ROADWAYS DUE TO THE CONTRACTOR'S EQUIPMENT OR HAULING OPERATIONS SHALL BE REPAIRED, TO THE OWNER'S SATISFACTION, AT NO COST TO THE OWNER.
- 4. REFER TO THE PROJECT SPECIFICATIONS FOR SITE SECURITY REQUIREMENTS.
- 5. THE CONTRACTOR SHALL CONDUCT ACTIVITIES IN A SAFE AND SECURE MANNER AS SPECIFIED HEREIN AND IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
- 6. ALL FACILITIES SHALL BE PROTECTED AND ANY DAMAGES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 7. UNLESS OTHERWISE SPECIFIED. ALL TESTS REQUIRED BY PLANS OR SPECIFICATIONS FOR ACCEPTANCE SHALL BE INITIATED BY THE PROGRAM MANAGER AND PAID FOR BY THE OWNER. RETESTS OF ANY FAILED TEST SHALL BE AT THE CONTRACTOR'S EXPENSE. QUALITY CONTROL TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 8. AIRPORT TELEPHONE NUMBERS:
- FIRE/POLICE EMERGENCY RESPONSE ONLY

PHONE: 901-922-8333 PHONE: 901-922-8298

 FIRE/POLICE NON-EMERGENCY AIRPORT OPERATIONS

PHONE: 901-922-8117

- 9. UTILITIES WILL NOT BE INTERRUPTED WITHOUT PRIOR COORDINATION AND APPROVAL FROM THE MSCAA BUILDING MAINTENANCE MANAGER, TELEPHONE NUMBER (901) 922-8615, OR THE MAINTENANCE SERVICE DESK AT (901) 922-8040. APPROVAL IS REQUIRED FOR EACH AND EVERY INTERRUPTION. A MINIMUM OF A WEEK NOTICE IS REQUIRED FOR UTILITY INTERRUPTIONS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A CLEAN CONSTRUCTION SITE AND ANY SPACE USED FOR THE REMOVAL OF DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE CAUSED BY CONSTRUCTION TO AS GOOD OR BETTER CONDITION.
- 11. THE SCHEDULE OF CONSTRUCTION EFFORTS AND REMOVAL OF DEBRIS SHALL BE COORDINATED SO AS NOT TO DISRUPT OTHER TENANTS OR ENDANGER THE SAFETY OF THE PUBLIC. FINAL APPROVAL SHALL BE THE RESPONSIBILITY OF MSCAA DEVELOPMENT DIVISION.
- 12. ALL SALVAGED EQUIPMENT AS DESIGNATED BY THE OWNER SHALL BE RETURNED TO MSCAA AT THEIR DESIGNATED LOCATION FOR THEIR USE OR DISPOSED OF OFF SITE AS DIRECTED BY MSCAA.
- 13. ONE PRINTED SET OF COMPLETED REDLINE AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE PROGRAM MANAGER UPON COMPLETION OF THE PROJECT.
- 14. CONTRACTOR MUST REFERENCE MSCAA DESIGN GUIDE AND BECOME FAMILIAR WITH STANDARDS BEFORE COMMENCING WORK. NOTIFY OWNER IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE STANDARDS AND CONSTRUCTION DOCUMENTS.

SAFETY NOTES:

- 1. THE CONTRACTOR SHALL HAVE ACCESS TO THE AIRPORT ONLY AT THOSE LOCATIONS DESIGNATED ON THE PLANS. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY THE OWNER.
- 2. AIRCRAFT OPERATIONS SHALL HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS.
- 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANUP AND DISPOSAL OF ALL TRASH AND DEBRIS CREATED BY WORK OR PERSONNEL. NO BURNING IS ALLOWED ON SITE. ALL TRASH AND DEBRIS MUST BE DISPOSED OF OFF-SITE.
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN. THE CONTRACTOR SHALL DESIGNATE IN WRITING TO THE PROGRAM MANAGER THE NAME OF HIS "CONTRACTOR SECURITY OFFICER."
- 5. THE CONTRACTOR-THROUGH THE CONTRACTOR SECURITY OFFICER-SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUB-CONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE. VEHICLE PERMITS SHALL BE ASSIGNED IN ACCORDANCE WITH AIRPORT SECURITY PROCEDURES.
- 6. THE WORK AREA IS OUTSIDE SIDA; THEREFORE MSCAA BADGING REQUIREMENTS WILL NOT APPLY. THE CONTRACTOR SHALL KEEP THE SITE SECURE AT ALL TIMES AND CONTROL WHO HAS ACCESS TO THE SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN LOCK TO BE INTERCONNECTED WITH THE OWNER'S LOCK SO BOTH PARTIES CAN ACCESS THE SITE AT ANY TIME.
- 7. ALL CONTRACTOR VEHICLES SHALL DISPLAY IN FULL VIEW COMPANY LOGOS CONSPICUOUSLY PLACED ON EACH SIDE OF THE VEHICLE. LOGOS SHALL BE AT LEAST 12" SQUARE WITH LETTERS AT LEAST 4" HIGH. AT ALL TIMES, ALL VEHICLES OPERATING IN THE ACTIVE AOA SHALL BE EQUIPPED WITH A FLASHING AMBER (YELLOW) DOME-TYPE LIGHT MOUNTED ON TOP OF THE VEHICLE AND OF SUCH INTENSITY TO CONFORM TO FAA CRITERIA FOR MAINTENANCE AND EMERGENCY VEHICLES.
- 8. THE CONTRACTOR SHALL PROVIDE CAUTION TAPE AROUND WORK AREAS TO PROTECT ALL EXPOSED LIVE PARTS.

HAUL ROUTE NOTES:

- 1. HAUL ROADS TO BE USED UNDER THIS PROJECT SHALL BE THOSE INDICATED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY DESIGNATED BY THE PROGRAM MANAGER. ALL CONTRACTOR VEHICLES AND TRAFFIC SHALL REMAIN WITHIN THE DESIGNATED CONSTRUCTION AREAS OR HAUL ROUTES. IF THE SPECIFIED HAUL ROUTES ARE NOT CONSIDERED BY THE OWNER OR THE PROGRAM MANAGER TO BE OF SUFFICIENT STRENGTH TO ACCOMMODATE CONSTRUCTION TRAFFIC, THE CONTRACTOR WILL BE REQUIRED TO REBUILD THE HAUL ROUTES TO SUCH CONDITION AS IS NECESSARY FOR CONSTRUCTION TRAFFIC TO PROCEED. THIS ADDITIONAL HAUL ROAD CONSTRUCTION WILL BE COMPLETED WITH NO ADDITIONAL COMPENSATION.
- 2. CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROGRAM MANAGER. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON THE SITE. DIRECTIONAL SIGNING AT THE ACCESS GATE AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL BE AS DIRECTED BY THE PROGRAM MANAGER.
- 3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE.
- 4. IF THE CONTRACTOR'S WORK REQUIRES THAT ANY HAUL ROADS ARE NECESSARY OVER AND ABOVE THOSE SHOWN HEREIN, THE CONTRACTOR SHALL SUBMIT A PLAN OF SAME FOR APPROVAL BY THE PROGRAM MANAGER.
- 5. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CONTACT THE PROGRAM MANAGER TO DETERMINE WHETHER THE HAUL ROUTES USED BY THE CONTRACTOR NEED REPAIR DUE TO CONSTRUCTION USE. IF THE PROGRAM MANAGER OR OWNER DETERMINES THAT THE HAUL ROUTES ARE IN NEED OF REPAIR, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO THE HAUL ROUTES WITH NO ADDITIONAL COMPENSATION.

PROPOSED WORK SEQUENCE:

GENERAL:

- 1. IT IS INTENDED THE SCOPE OF WORK IN THIS PROJECT CAN BE INSTALLED SAFELY WITHOUT HAVING ANY POWER OUTAGES. THE CONTRACTOR IS EXPECTED TO DO ALL WORK NECESSARY PRIOR TO THE ARRIVAL OF THE NEW CAPACITOR BANK TO PROMOTE THE INSTALLATION WITHOUT AN OUTAGE
- 2. IT IS INTENDED THE DURATION OF TIME THE SYSTEM IS WITHOUT A CAPACITOR BANK IS MINIMIZED TO 48 HOURS. THE CONTRACTOR IS EXPECTED TO PREPARE THE SITE AND DO ALL WORK NECESSARY TO MINIMIZE THIS DURATION. THE CONTRACTOR SHALL DEVELOP AND PRESENT ON SITE A DETAILED WORK SEQUENCE PLAN FOR APPROVAL FROM THE OWNER PRIOR TO THE CHANGEOVER. WORK RELATED TO JCI MONITORING AND REMOTE CONTROLS AND OTHER MISCELANEOUS WORK CAN FOLLOW IN THE DAYS AFTER THE CHANGEOVER. IT IS EXPECTED THE NEW CAPACITOR BANK CAN BE PLACED, CONNECTED AND BROUGHT INTO AUTOMATIC OPERATION WITHIN THE 48 HOUR
- 3. IN THE EVENT THAT AN OUTAGE IS REQUIRED THE ONLY TIME ANY AREA OF THE AIRPORT CAN BE WITHOUT POWER IS FROM APPROXIMATELY 10PM TO 4AM ON ANY GIVEN DAY. THE ONLY EXCEPTION TO THIS IS FOR ANY AREAS OR TIMES SPECIFICALLY APPROVED BY THE OWNER ON AN INDIVIDUAL BASIS. ALL POWER OUTAGES MUST BE COORDINATED WITH THE OWNER WITH A MINIMUM OF ONE WEEK ADVANCE NOTICE/REQUEST. THE REQUEST SHOULD INCLUDE A SPECIFIC WORK SEQUENCE FOR REVIEW BY THE OWNER AND ENGINEER. PRIOR TO ACCEPTANCE, THE CONTRACTOR MAY BE REQUIRED TO WALK THROUGH EACH STEP OF THE PROCESS WITH THE OWNER AND ENGINEER AT THE SPECIFIC SITE LOCATION TO PROVIDE REASONABLE ASSURANCE POWER CAN BE RESTORED AT 4AM THE FOLLOWING MORNING. IF THE POWER OUTAGE REQUEST INVOLVES SEVERAL BACK TO BACK EVENINGS, THE WORK SEQUENCE MUST DETAIL EACH OF THE DAY'S WORK AND HOW MANY EVENINGS WILL BE INVOLVED.
- 4. CONTRACTOR TO REUSE EXISTING FOUNDATION ANCHOR RODS AND NUTS TO FASTEN REPLACEMENT EQUIPMENT TO EXISTING FOUNDATION. PROVIDE NEW PLATE WASHERS 3/8"x1 1/2"x1 1/2" WITH A STANDARD HOLE AT ANCHOR LOCATIONS BELOW NUT. DRILL NEW HOLES IN NEW EQUIPMENT FLANGES AS REQUIRED TO ACCOMODATE THE EXISTING ANCHOR RODS. FIELD MEASURE EXISTING ANCHOR ROD, SIZES AND LOCATIONS AND PROVIDE NEW REPLACEMENT CABINETS WITH HOLES TO ACCOMODATE THE EXISTING ANCHOR RODS, NEW PLATE WASHERS, & EXISTING/NEW NUTS.
- 5. IF NEW ANCHORS HAVE TO BE INSTALLED, DRILL & ANCHOR NEW ADHESIVE ANCHORS IN NEW LOCATION; CLEAN HOLES PER ADHESIVE ANCHOR MANUFACTURER INSTRUCTIONS; AND ANCHOR TO EXISTING CONCRETE (f'c=3,000PSI) USING AT-XP BY SIMPSON STRONG-TIE. HIT-HY 200A V3 BY HILTI CORPORATION, AC2004 BY DEWALT, OR APPROVED EQUAL. CONCRETE EMBEDMENT SHALL BE 6" ON ADHESIVE ANCHORS, TYPICAL,





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DESCRIPTION

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19-1423-30

PROJECT:

MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

SHEET TITLE:

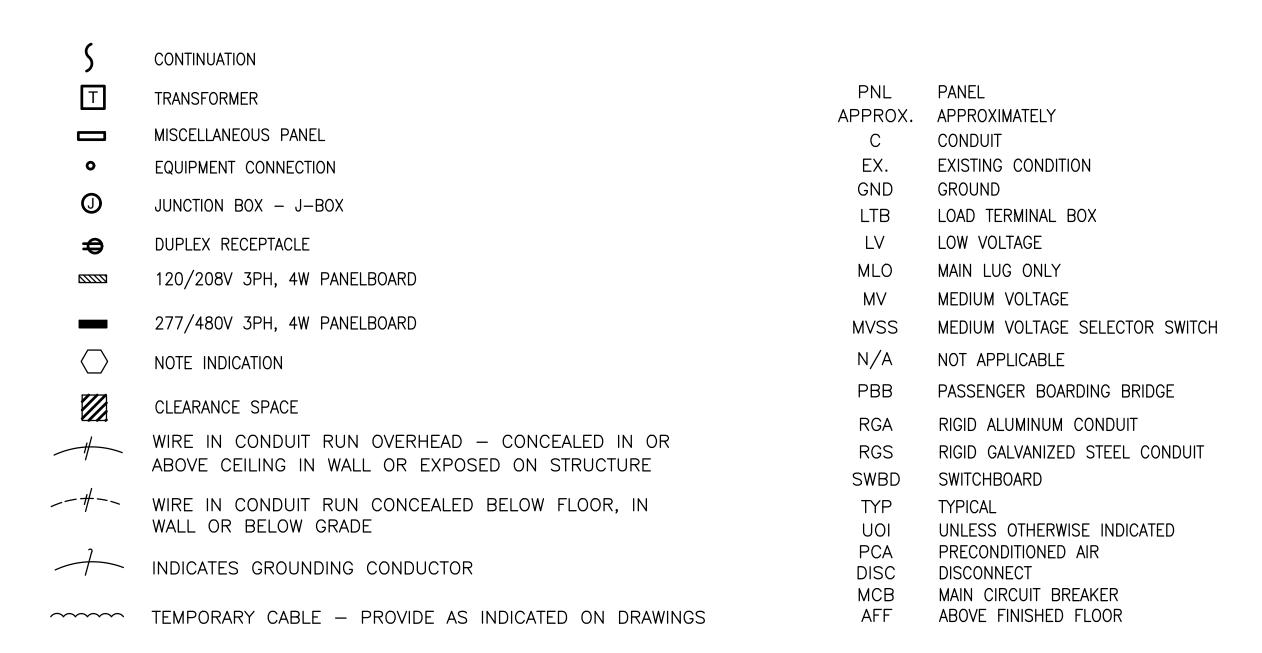
GENERAL PROJECT & **SAFETY NOTES**

G.03 GEN PROJECTS & SAFETY NOTES

11.06.2024

G.03

NONE





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1	xxxxx	××
NO.	DESCRIPTION	DATE

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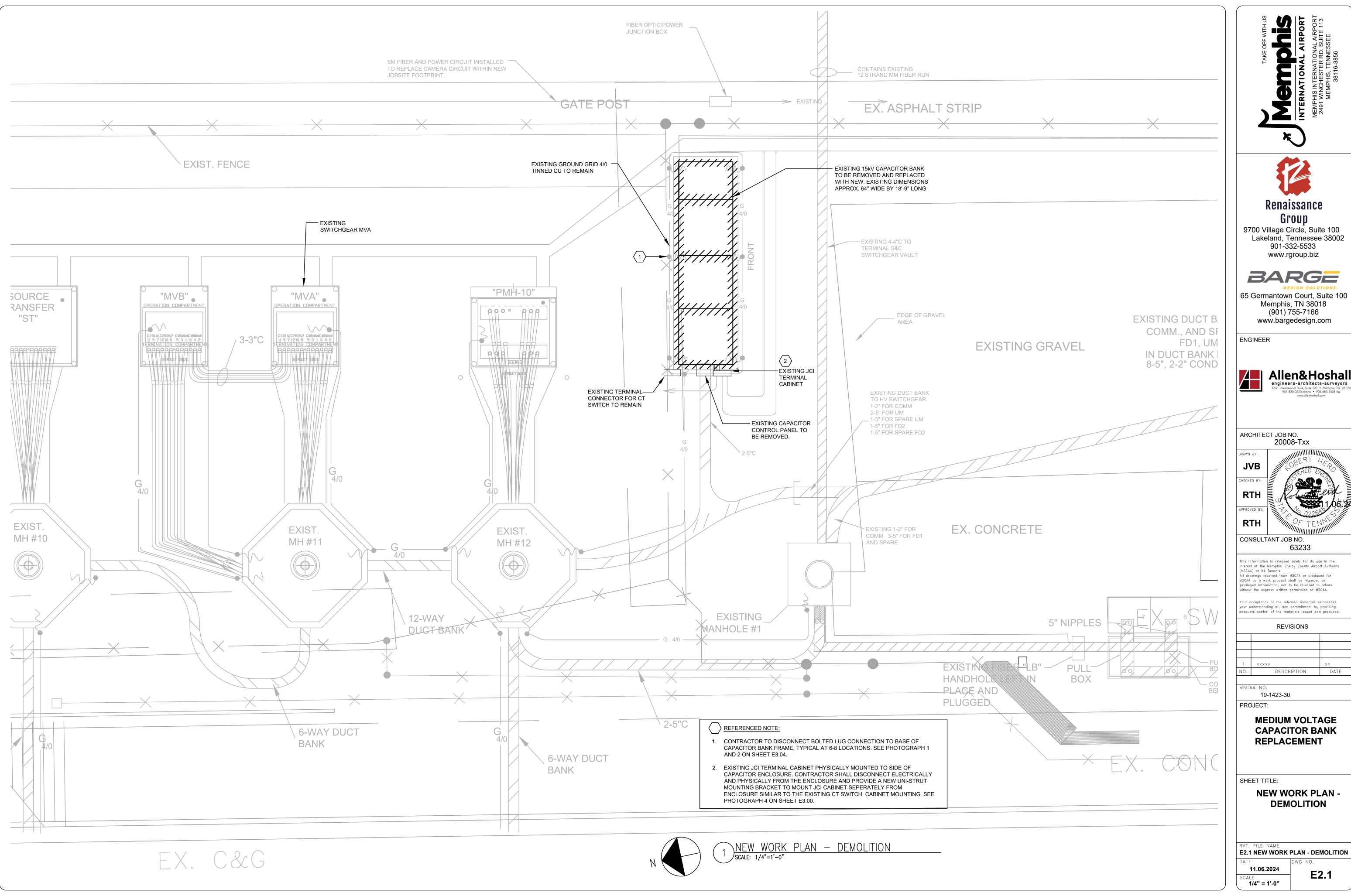
SHEET TITLE:

LEGEND

SCALE **NONE**

E1.00 LEGEND 11.06.2024

E1.00





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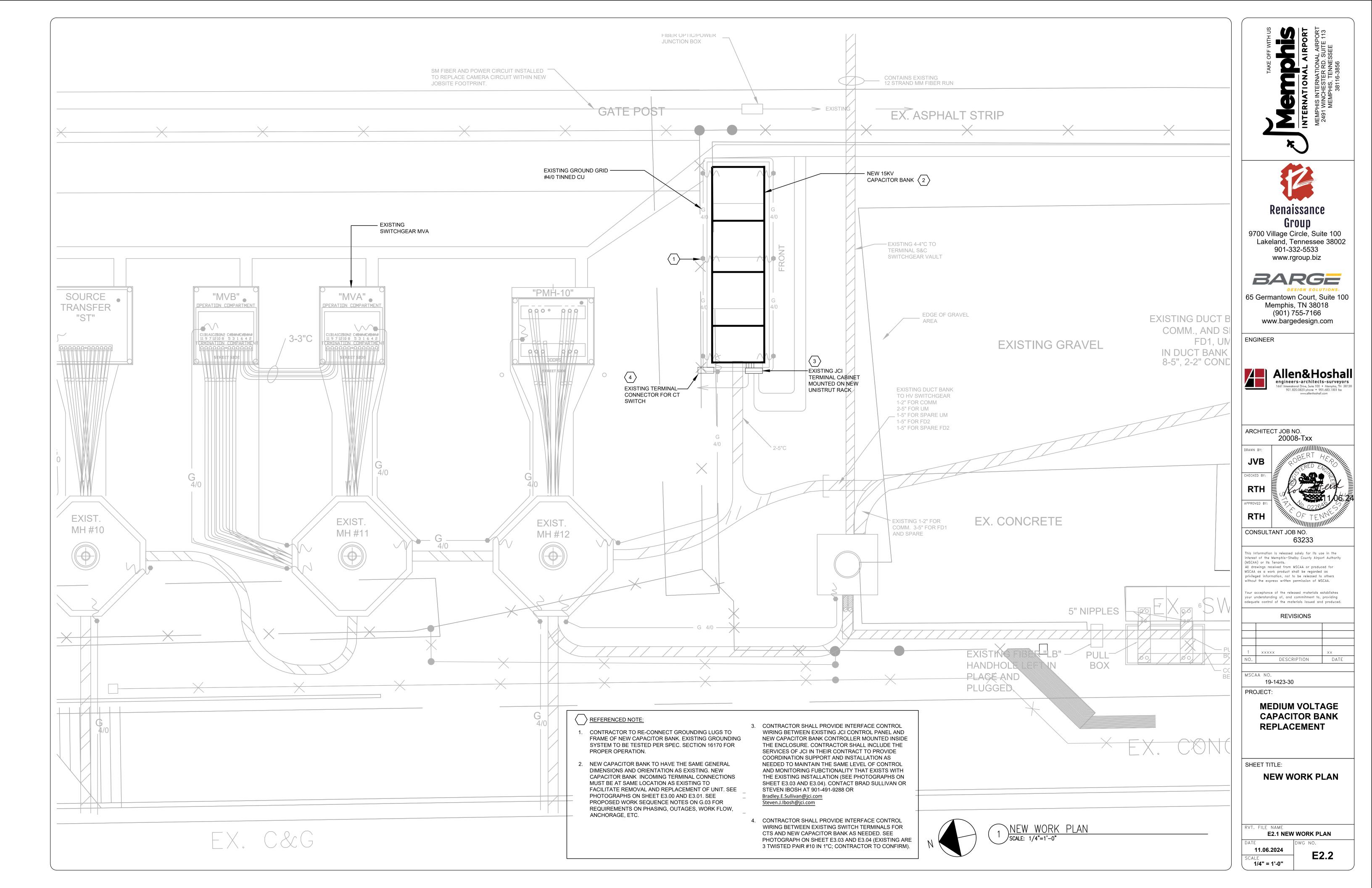


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	xxxxx	××		
٥.	DESCRIPTION	DATE		

CAPACITOR BANK

E2.1





EXISTING CAPACITOR BANK END/FRONT VIEW SCALE: NONE



EXISTING CAPACITOR BANK END/FRONT VIEW SCALE: NONE

EX MAIN CONTROLLER

- EX JCI TERMINAL CABINET

EXISTING CT -**SWITCH TERMINAL**



EXISTING SWITCHGEAR MVA SCALE: NONE



EXISTING CAPACITOR BANK CONTROL CABINETS W/ CONDUITS
SCALE: NONE



EXISTING CAPACITOR BANK AREA SCALE: NONE



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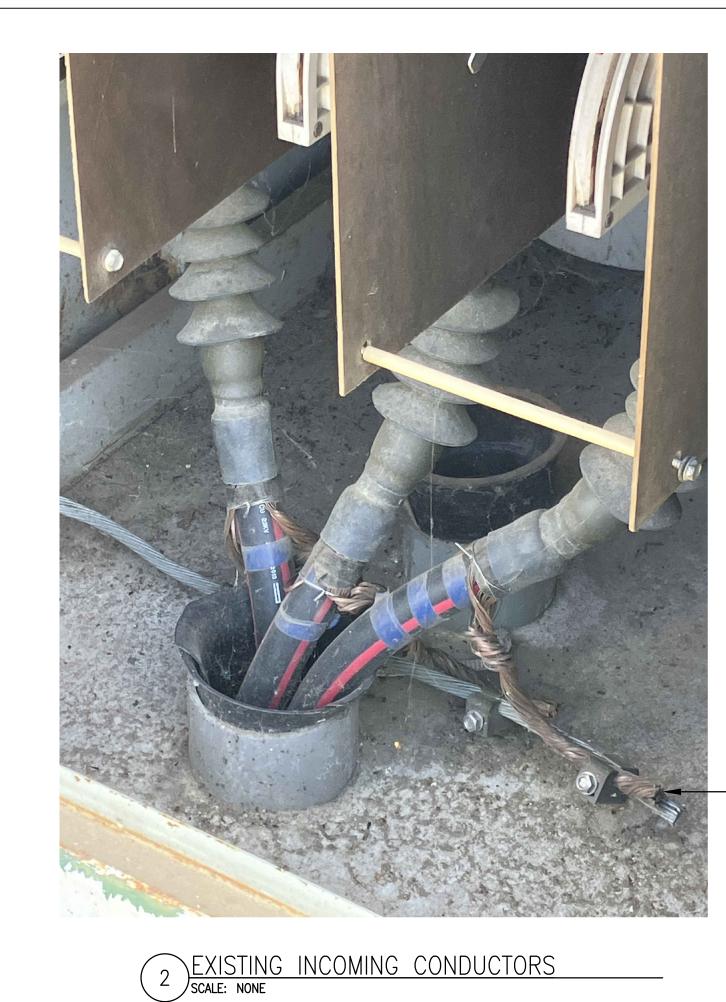
PHOTO SHEET #1

E3.00 - E3.04 PHOTO SHEETS

11.06.2024 SCALE **NONE**



1 EXISTING MAIN CAPACITOR BANK SWITCH SCALE: NONE



- RECONNECT EXISTING CONDUCTOR GROUNDING SHIELD.

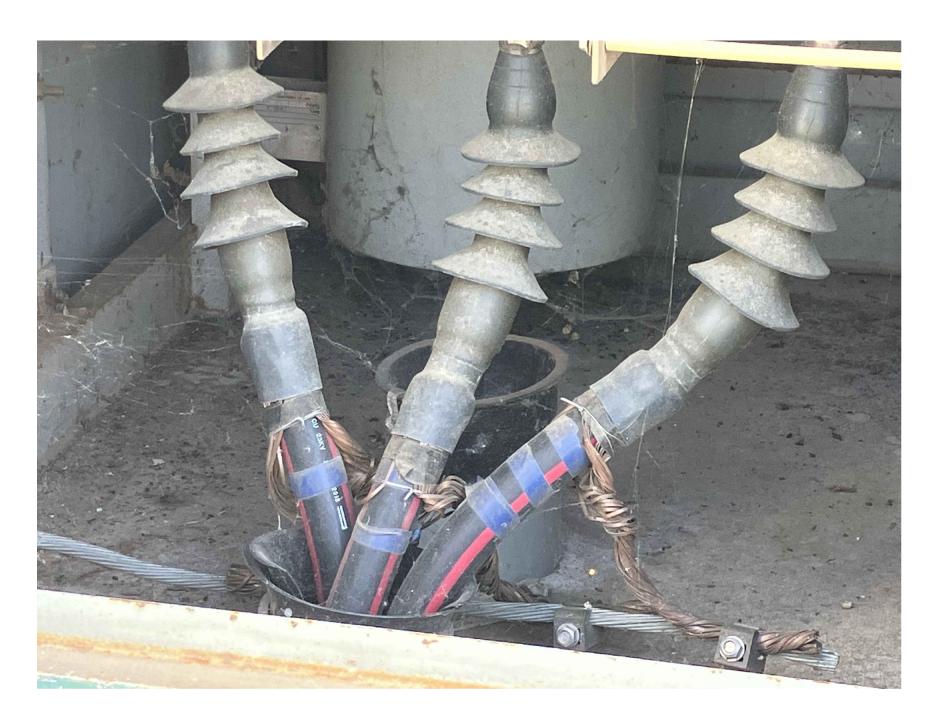


EXISTING MAIN CAPACITOR BANK SWITCH

SCALE: NONE



4 EXISTING MAIN CAPACITOR BANK SWITCH SCALE: NONE



5 EXISTING INCOMING CONDUCTORS SCALE: NONE



EXISTING CAPACITOR BANK BOLTED TERMINAL CONNECTION SCALE: NONE



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1	XXXXX	XX
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SHEET TITLE:

SCALE **NONE**

PHOTO SHEET #2

E3.00 - E3.04 PHOTO SHEETS

11.06.2024



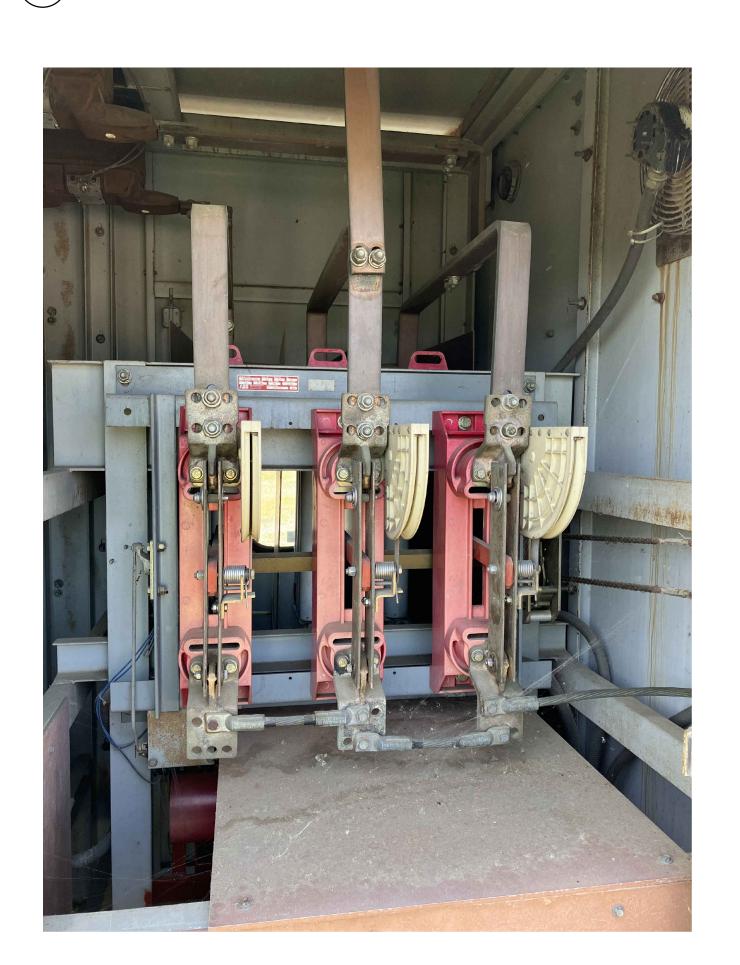
1 EXISTING CAPACITORS
SCALE: NONE



3 EXISTING SINGLE PHASE TRANSFORMER SCALE: NONE



2 EXISTING CAPACITORS
SCALE: NONE



4 EXISTING GROUNDING SWITCH SCALE: NONE



5 EXISTING GROUNDING SWITCH SCALE: NONE





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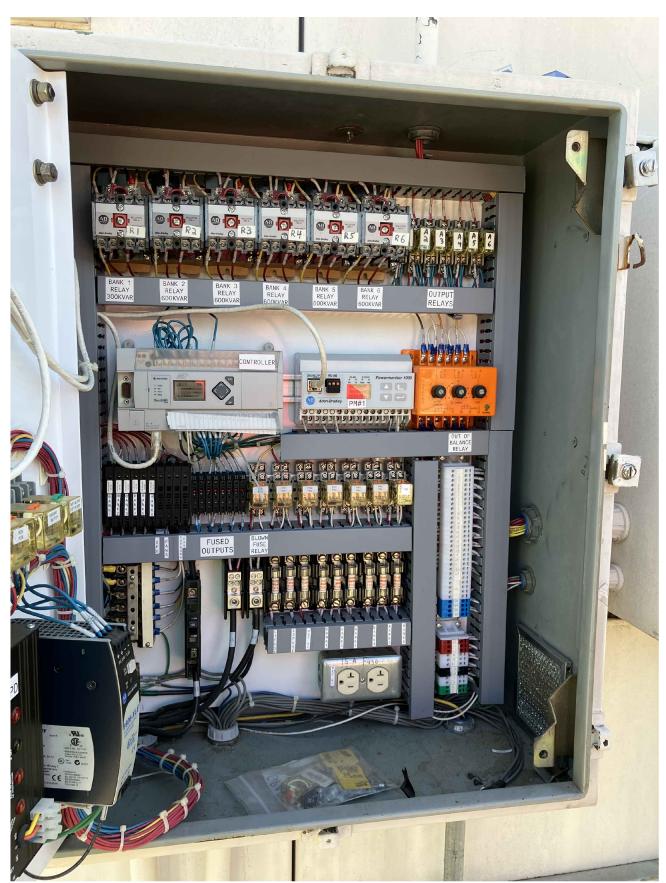
MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

SHEET TITLE:

PHOTO SHEET #3

E3.00 - E3.04 PHOTO SHEETS

11.06.2024 SCALE **NONE**



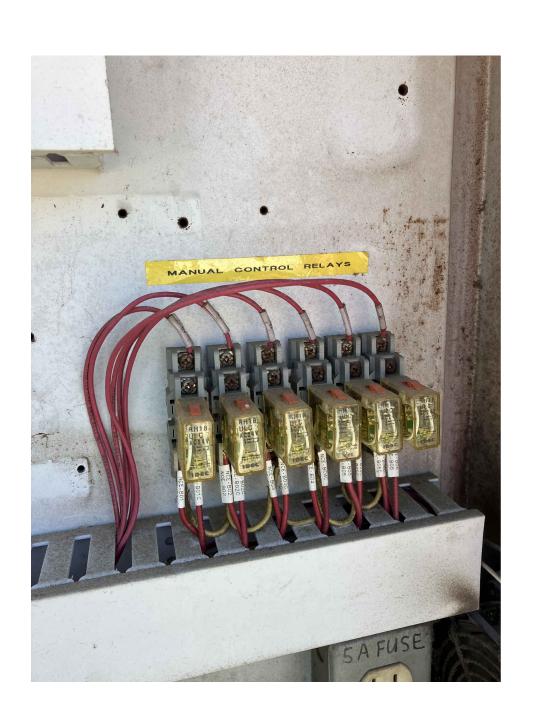
EXISTING MAIN CONTROLLER SCALE: NONE



4 EXISTING CONTROLS CABINETS
SCALE: NONE



2 EXISTING MAIN CONTROLLER scale: NONE



5 EXISTING JCI TERMINAL CABINET SCALE: NONE



3 EXISTING MAIN CONTROLLER SCALE: NONE



6 EXISTING SWITCH TERMINALS FOR CT'S SCALE: NONE





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PROJECT:

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SHEET TITLE:

PHOTO SHEET #4

E3.00 - E3.04 PHOTO SHEETS

11.06.2024 SCALE **NONE**



1 EXISTING GROUNDING LUG CONNECTION TO FRAME SCALE: NONE



3 EXISTING CONTROLS CABINET SCALE: NONE



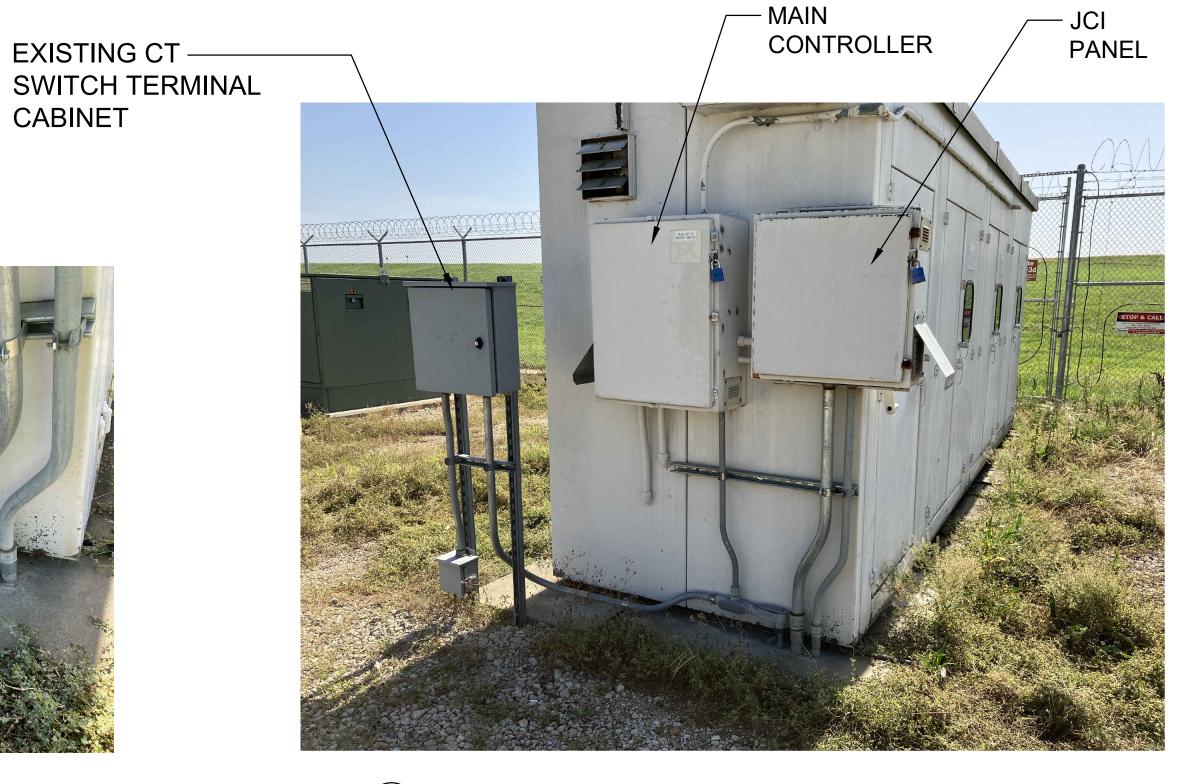
2 EXISTING #4/0 GROUNDING CONDUCTORS SCALE: NONE

EXISTING CT —

CABINET



4 EXISTING CONTROLS CONDUITS
SCALE: NONE



EXISTING CONTROLS CABINETS

SCALE: NONE



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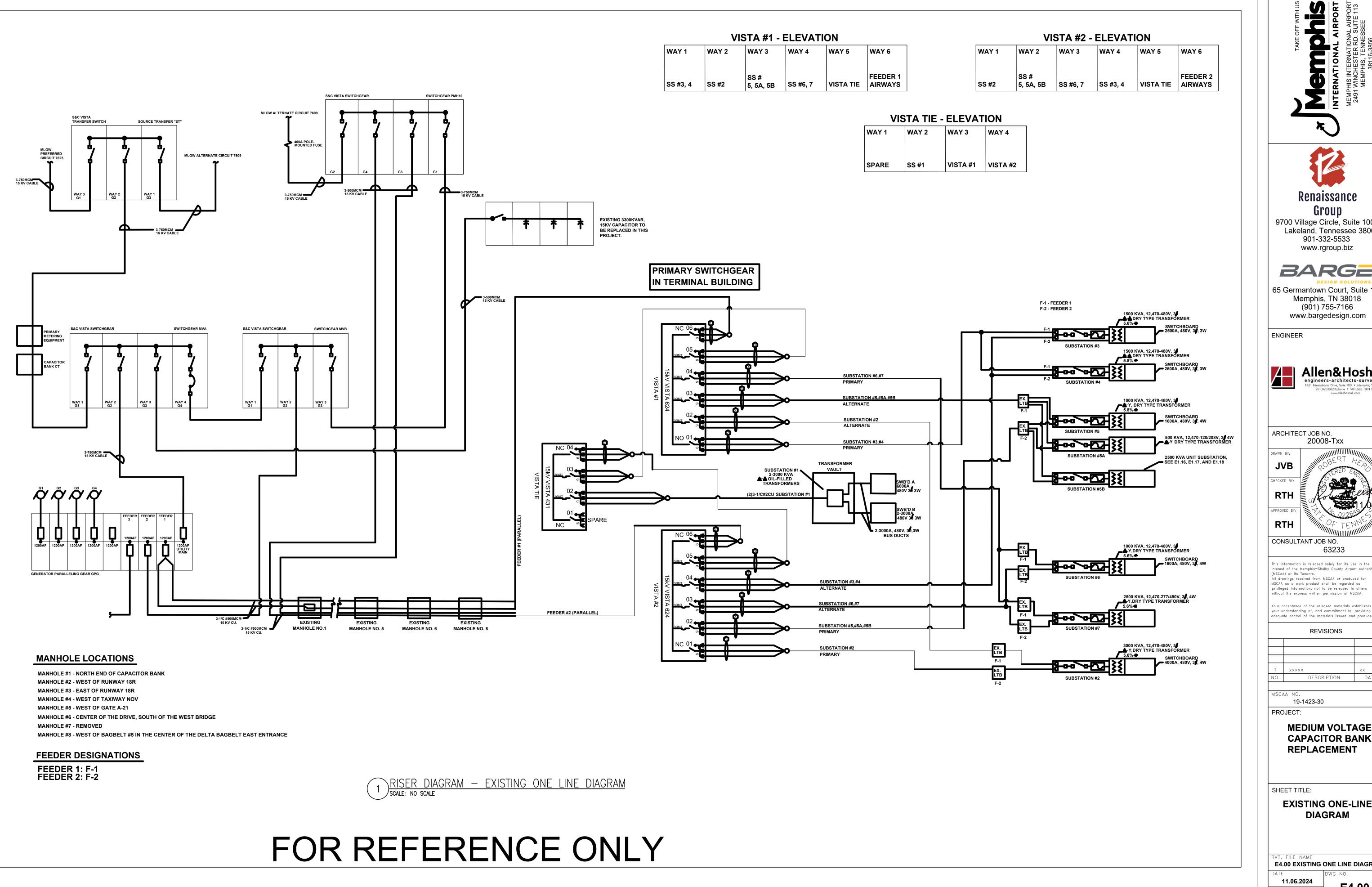
MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

SHEET TITLE:

PHOTO SHEET #5

RVT. FILE NAME
E3.00 - E3.04 PHOTO SHEETS

11.06.2024 SCALE **NONE**





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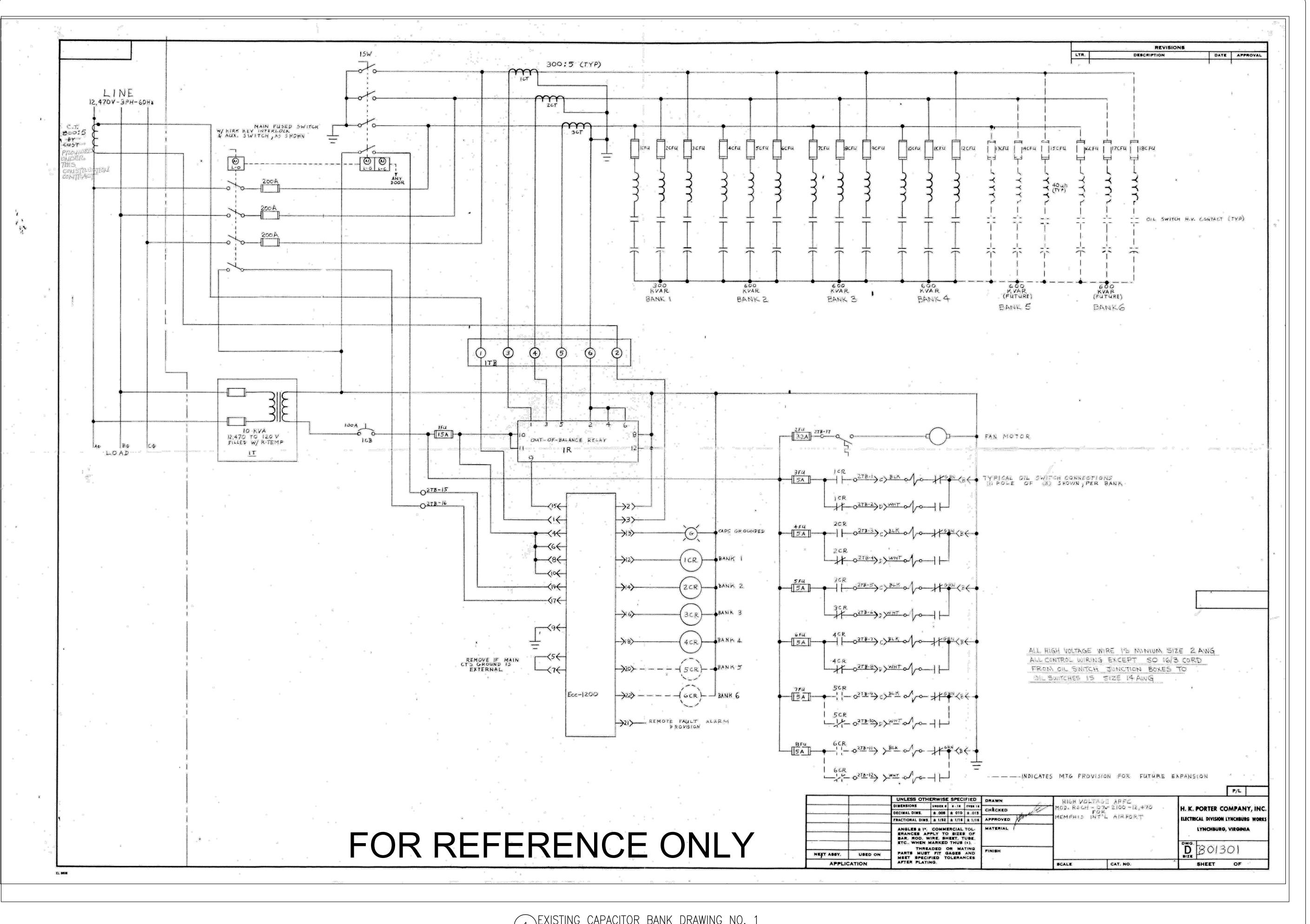
SHEET TITLE:

EXISTING ONE-LINE DIAGRAM

E4.00 EXISTING ONE LINE DIAGRAM

11.06.2024 NONE

E4.00







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19-1423-30

MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT

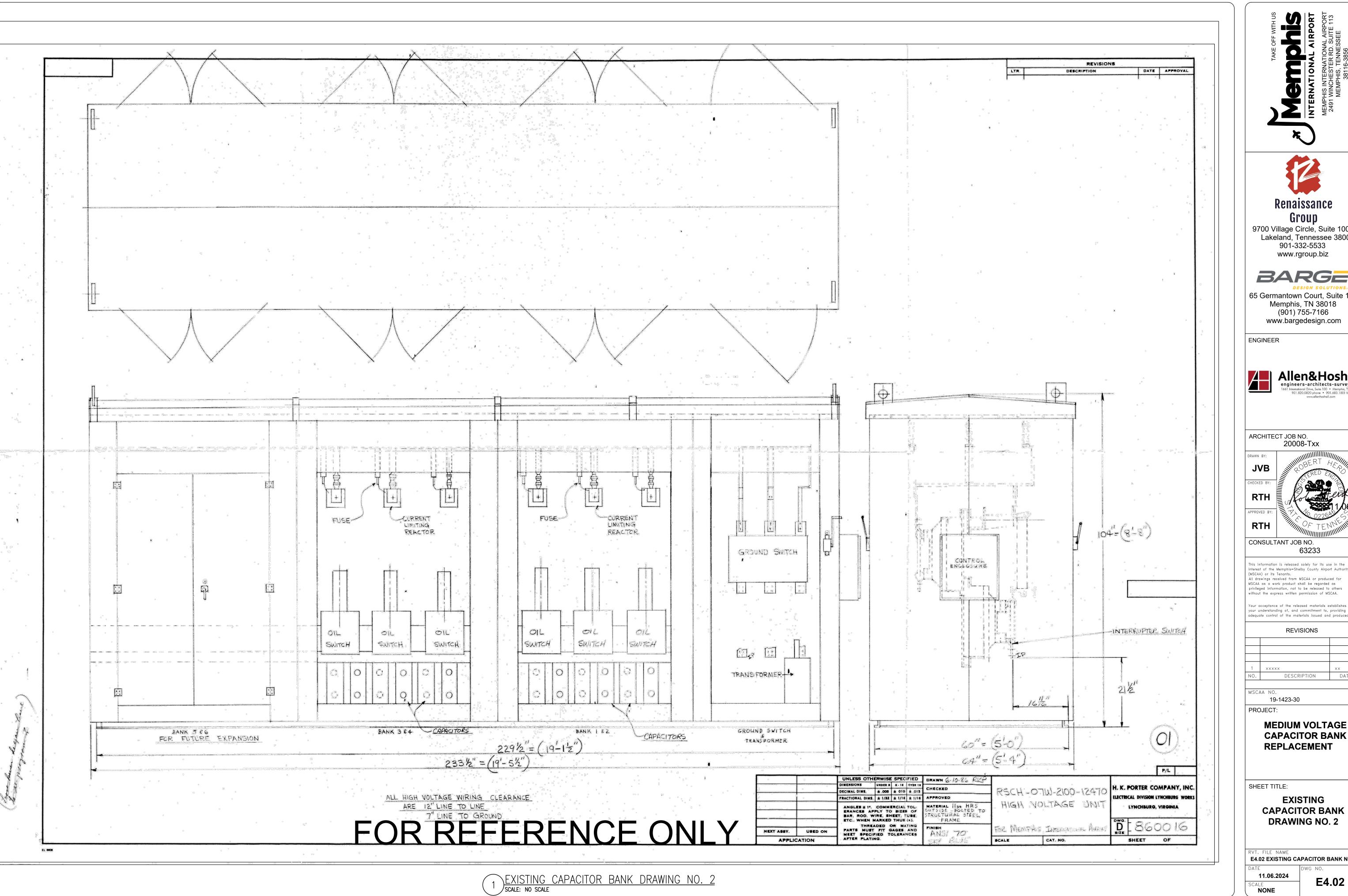
SHEET TITLE:

EXISTING CAPACITOR BANK DRAWING NO. 1

E4.01 EXISTING CAPACITOR BANK NO. 1

11.06.2024 SCALE **NONE**

E4.01







Group 9700 Village Circle, Suite 100 Lakeland, Tennessee 38002 901-332-5533



www.rgroup.biz

65 Germantown Court, Suite 100 Memphis, TN 38018 (901) 755-7166 www.bargedesign.com

ENGINEER



ARCHITECT JOB NO. 20008-Txx

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MSCAA NO. 19-1423-30 PROJECT:

> **MEDIUM VOLTAGE CAPACITOR BANK REPLACEMENT**

SHEET TITLE:

EXISTING CAPACITOR BANK DRAWING NO. 2

E4.02 EXISTING CAPACITOR BANK NO. 2

11.06.2024 SCALE **NONE**

E4.02