MATA BUS ELECTRIFICATION PHASE 1

INDEX OF DRAWINGS

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FOR

MEMPHIS AREA TRANSIT AUTHORITY 1370 LEVEE ROAD MEMPHIS, TN 38108



Memphis, Tennessee 38118
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SCALE: 1"=900'

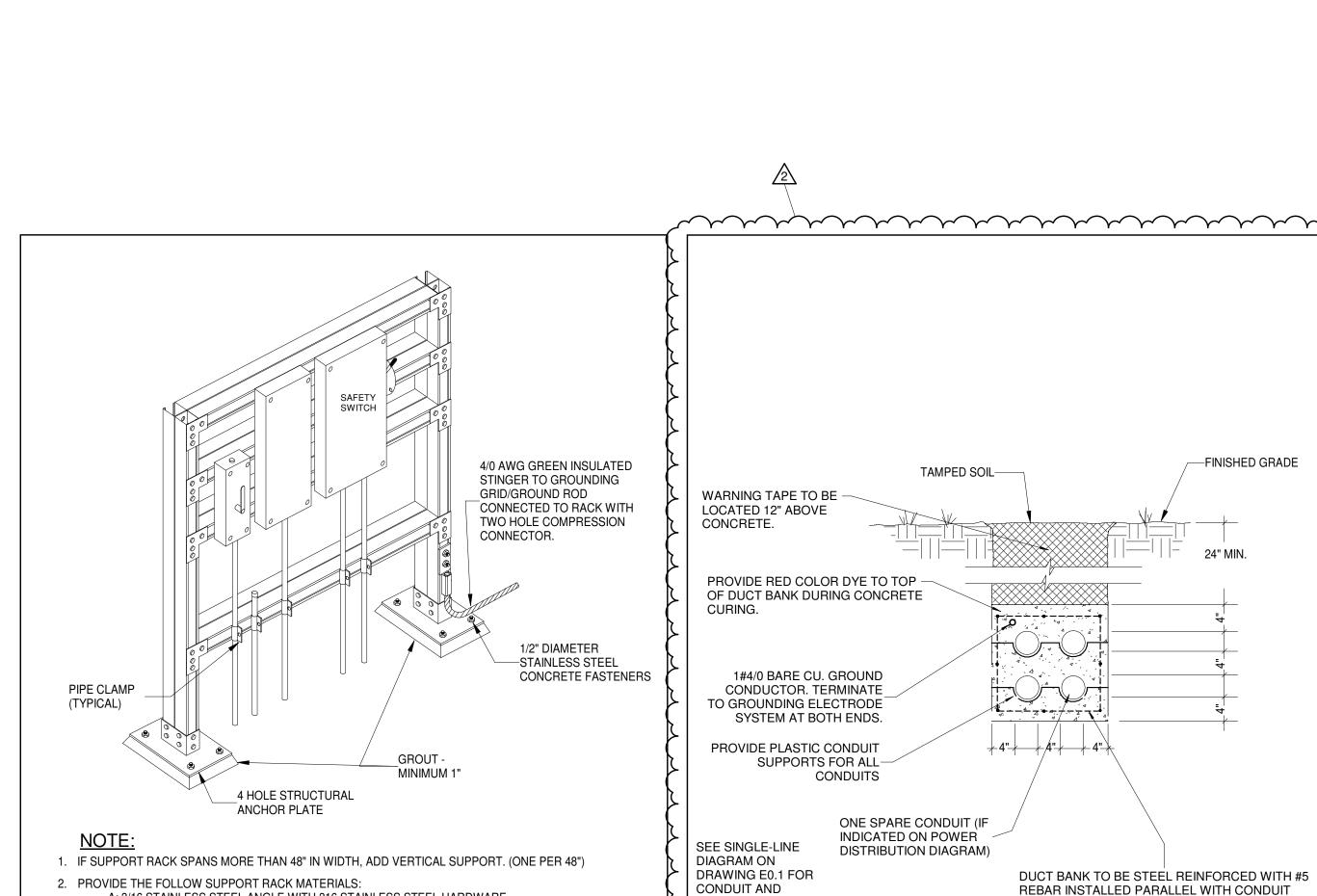
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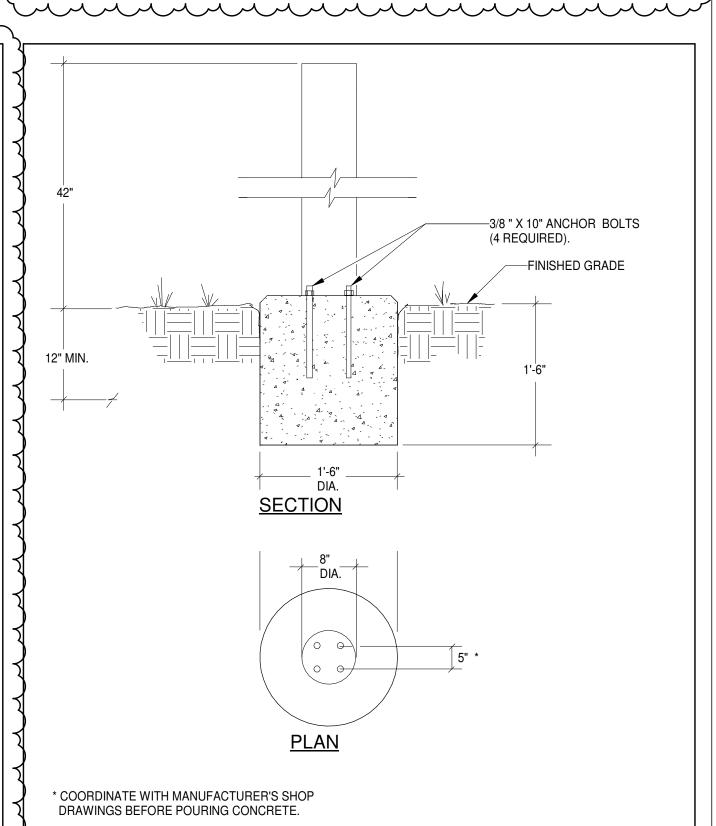
	LEGEND	(NOT ALL SYMBOLS MAY BE USED)
SYMBOL	DESCRIPTION	
	ABBREVIATIONS	
ABC	ABOVE COUNTER	
ADO	AUTOMATIC DOOR OPENER	
AFCI	ARC FAULT CIRCUIT INTERRUPTER	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
CLG	CEILING	
COF	COFFEE MACHINE	
COP	COPIER	
CR	CONTROLLED RECEPTACLE	
CS	CONTROLLED RECEPTACLE - SPLIT WIRED	
DC	DIGITAL CLOCK	
DW	DISHWASHER	
Е	EMERGENCY POWER	
EPO	EMERGENCY POWER OFF	
EV	ELECTRICAL VEHICLE CHARGING STATION	
EWB	ELECTRONIC WHITE BOARD	
EWC	ELECTRIC WATER COOLER	
FBO	FURNISHED BY OTHERS	
FLR	FLOOR MOUNTED	
FSD	FIRE/SMOKE DAMPER	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
ICE	ICE MACHINE/MAKER	
IG	ISOLATED GROUND	
MW	MICROWAVE	
PC	PERSONAL COMPUTER WORKSTATION	
PR	PRINTER	
PT	PNEUMATIC TUBE	
RF	REFRIGERATOR	
TC	TIME CLOCK	
TR	TAMPER RESISTANT	
TV	TELEVISION	
URF	UNDERCOUNTER REFRIGERATOR	
USB	RECEPTACLE WITH USB OUTLET(S)	
USBX	USB ONLY (X) = NUMBER OF USB OUTLETS	
VFD	VARIABLE FREQUENCY DRIVE	
VM	VENDING MACHINE	
WP	WEATHERPROOF	

-			
EQUIPMENT NO	OMENCLATURE		
EQUIPMENT IDENTIFICATION TAG	S ARE COMPOSED AS FOLLOWS:		
EQUIPMENT BRANCH OF POWER VO	LTAGE LEVEL LOCATION		
EXAMPLE:			
MAIN SWITCHBOARD— NORMAL POWER—	BNH1A IIII AREA A LEVEL 1 480/277V		
EQUIPMENT TYPES:			
MSG = MAIN SWITCH GEAR SD = SERVICE DISCONNECT	LCP = LIGHTING CONTROL PANEL LRP = LIGHTING RELAY PANEL		
DSG = DISTRIBUTION SWITCHGEAR MSB = MAIN SWITCHBOARD DSB = DISTRIBUTION SWITCHBOARD USB = UNIT SUBSTATION UPS = UNINTERRUPTIBLE POWER SUPPLY MDP = MAIN DISTRIBUTION PANELBOARD DP = DISTRIBUTION PANELBOARD IP = ISOLATED POWER PANELBOARD LP (OR P) = LIGHTING & BRANCH APPLIANCE	DCP = DIMMING CONTROL PANEL MCC = MOTOR CONTROL CENTER X = TRANSFORMER G = GENERATOR ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH WG = WIRING GUTTER EL-# = ELEVATOR (# REPRESENTS CAB)		
PANELBÓARD	BW = BUSWAY BP = BUS PLUG		
BRANCHES OF POWER:	VOLTAGE		
N = NORMAL $S = LIFE SAFETY$ $Q = EQUIPMENT$ $E = EMERGENCY$ $C = CRITICAL$ $U = UPS$	H = 480/277V L = 208/120V		
LEVELS:	AREA / QUAD / SECTOR:		
1 = LEVEL 1	A = AREA A D = AREA D G = AREA G B = AREA B E = AREA E H = AREA H C = AREA C F = AREA F I = AREA I		

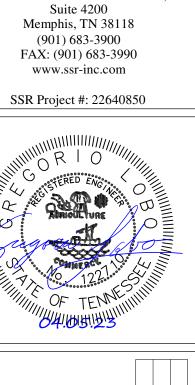
	LEGEND (NOT ALL SYMBOLS MAY BE USED)				
SYMBOL	DESCRIPTION				
	MISCELLANEOUS				
4	NON-FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES)				
4	FUSIBLE SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES/FUSE SIZE)				
Ч⊠	COMBINATION MOTOR STARTER/SAFETY SWITCH				
\blacksquare	FACTORY WIRED CONTROLLER OR EQUIPMENT				
/X/	MOTOR CONNECTION				
_	PANELBOARD				
(J)	JUNCTION BOX - WALL MOUNTED UNLESS OTHERWISE NOTED				
•	PUSH BUTTON STATION				
(EXXX-1)	SPECIALTY EQUIPMENT TAG				
	CIRCUITS AND RACEWAYS				
CIRCUIT OR RACEWAY CONCEALED OR EXPOSED					
	CIRCUIT OR RACEWAY BELOW OR IN FLOOR SLAB OR BELOW GRADE				
0	CONDUIT OR RACEWAY TURNING UP				
•	CONDUIT OR RACEWAY TURNING DOWN				
	CAPPED CONDUIT OR RACEWAY				
~	CIRCUIT OR CONDUIT CONTINUATION				
	HOMERUN TO PANELBOARD - REFER TO SPECIFICATIONS FOR MINIMUM CONDUIT SIZES.				

SHEET INDEX			
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SECONDARY ELECTRICAL SERVICE DUCT



-FINISHED GRADE

AND #3 REBAR INSTALLED VERTICALLY AND

PERPENDICULAR AT 4FT. INTERVALS

CONNECTED TO HORIZONTAL REBAR.

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MAM DESIGNED BY CHECKED BY ELECTRICAL LEGENDS, INDEX AND DETAILS 2/17/2023 PROJECT STATUS

> CD SHEET NUMBER

E0.0

— CONCRETE COMPACTED SUBGRADE CONTRACTOR TO PROVIDE CONDUIT SPACERS. SPACERS ARE TO BE 3" MIN INSTALLED PER MANUFACTURERS RECOMMENDATIONS DUCT BANK TO BE STEEL REINFORCED WITH #5 REBAR INSTALLED PARALLEL WITH CONDUIT 3" MINIMUM — AND #3 REBAR INSTALLED VERTICALLY AND PERPENDICULAR AT 4FT. INTERVALS CONNECTED TO HORIZONTAL REBAR.

A: 3/16 STAINLESS STEEL ANGLE WITH 316 STAINLESS STEEL HARDWARE.

ELECTRICAL EQUIPMENT MOUNTING RACK

MINERAL AGGREGATE BASE, TYPE A, GRADING D

DETAIL

3. VERTICAL CENTER OF DEVICES TO BE MOUNTED BETWEEN 42" AND 60" AFF
4. ELECTRICAL EQUIPMENT SHOWN IS FOR REFERENCE AND NOT SPECIFIC TO PROJECT SCOPE.

—CONCRETE SLAB

5. INSTALL RACK ON NEW CONCRETE PAD. REFER TO CIVIL DRAWINGS FOR LOCATION OF NEW

B: NON HYGIENIC WASH DOWN AREAS: GALVANIZED STEEL 3 -1/4" DOUBLE STRUT CHANNEL.

1. COORDINATE WITH STRUCTURAL FOUNDATION DRAWINGS BEFORE CONDUIT INSTALLATION.

2. REFER TO NEC TABLE 300.5 FOR MINIMUM COVER REQUIREMENTS WHERE NOT UNDER 4" (MINIMUM)

UNDER SLAB CONDUIT DETAIL

3 | d BOLLARD MOUNTING DETAIL time the second second

CONDUCTOR SIZE.

BANK DETAIL

Location:

2 POWER BLOCK 3

3 POWER BLOCK 4

4 SPACE

5 SPACE

6 SPD

10

Mounting: RACK

Enclosure: NEMA 3R

Supply From: 1000 KVA UTILITY...

Load Classification

648480 VA

Name: 480V DISTRIBUTION PANEL

Circuit Description

A.I.C. Rating: 65 kA

Mains Type: MCB

Bus Rating: 1200 A

MCB Rating: 1000 A

216160

Panel Totals

Total Conn. Load: 648480 VA

Total Conn. Current: 780 A

Total Demand Current: 780 A

Total Demand: 648480 VA

of Poles | Frame Size | Trip Rating | Load | Remarks

350 A 216160

350 A 216160

400 A 20 A 0 SEE NOTE 1

Total Conn. Load: 648480 VA

Total Amps: 780 A

400 A 350 A

400 A

400 A

648480 VA

Volts: 480/277 Wye

Phases: 3

Wires: 4

Connected Load | Demand Factor | Demand Load

100 00%

Feed Thru Lugs: Yes

B. THE WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:

1. WIRE AND CABLE 2. ELECTRICAL BOXES AND FITTINGS

3. CIRCUIT AND DISCONNECTS 4. SUPPORTING DEVICES

SEISMIC RESTRAINTS 6. ELECTRICAL IDENTIFICATION

GROUNDING RELATED WORK

A. THE FOLLOWING WORK RELATED TO THE ELECTRICAL WORK. B. PAINTING, EXCEPT REPAIR OF FACTORY APPLIED FINISHES ON ELECTRICAL EQUIPMENT.

CODES AND PERMITS

A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE, NFPA 70, 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND THE LATEST EDITION OF ALL LOCAL OR STATE CODES, LAWS, AND ORDINANCES.

TRADE NAMES AND EQUALS

A. MANUFACTURER'S TRADE NAMES OR CATALOG NUMBERS USED IN THESE SPECIFICATIONS AND INDICATED ON THE DRAWINGS DENOTE TYPE, SIZE, QUALITY, AND DESIGN OF EQUIPMENT REQUIRED.

B. WHERE EQUIPMENT IS SPECIFIED AS "EQUAL", OR "APPROVED EQUAL" IT SHALL MEAN EQUAL IN THE OPINION OF THE ENGINEER OF RECORD THIS CONTRACTOR IS TO OFFER SUBSTITUTIONS FOR CONSIDERATION TESTS AS EQUAL AFTER THE CONTRACT IS SIGNED; HOWEVER, BUT SHALL BE PREPARED TO FURNISH SPECIFIED MATERIALS WHERE SUBSTITUTIONS ARE NOT APPROVED.

MATERIAL AND EQUIPMENT

A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE QUALITY SPECIFIED.

B. MATERIAL OR EQUIPMENT THAT HAS BEEN STORED OUTDOORS UNPROTECTED FOR LONG PERIODS OF TIME OR OTHERWISE DAMAGED IS NOT ACCEPTABLE AS NEW MATERIAL.

C. APPARATUS AND MATERIALS USED IN THIS WORK WHICH ARE SUBJECT TO APPROVAL OF UNDERWRITERS LABORATORIES (UL) SHALL BEAR THE UL LABEL OR BE UNDERWRITERS LISTED.

DELIVERY, STORAGE, AND HANDLING OF MATERIAL AND EQUIPMENT

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PURCHASE. DELIVERY AND STORAGE OF ALL MATERIALS AND EQUIPMENT INDICATED TO BE SUPPLIED UNDER THIS SECTION OF THE SPECIFICATIONS, AND IT SHALL BE HIS RESPONSIBILITY TO SCHEDULE THE DELIVERY OF MATERIALS AND EQUIPMENT AT SUCH STAGES OF THE WORK AS WILL PERMIT UNINTERRUPTED CONSTRUCTION OF ALL PHASES OF THE WORK.

B. WHERE OWNER FURNISHED EQUIPMENT IS TO BE TURNED OVER TO THIS CONTRACTOR FOR INSTALLATION, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO RECEIVE SUCH EQUIPMENT AND STORE IN A SAFE, DRY LOCATION.

C. PERFORM ALL REQUIRED RIGGING, HOISTING, TRANSPORTING, ETC., OF ALL EQUIPMENT FURNISHED, AND FURNISH ANY ADDITIONAL STRUCTURAL MEMBERS, AS MAY BE REQUIRED, FOR THE PROPER SUPPORT OF ANY AND ALL EQUIPMENT FURNISHED HEREUNDER.

ACCURACY OF DATA

A. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, AND EXCEPT WHERE DIMENSIONS ARE SHOWN, ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF CONDUITS, WIRE, AND EQUIPMENT. ALL WORK SHALL BE INSTALLED AS NEARLY AS POSSIBLE IN THE LOCATIONS INDICATED, WITH ONLY SUCH MINOR ADJUSTMENTS AS WILL BE REQUIRED TO AVOID INTERFERENCES WITH STRUCTURE OR THE WORK OF OTHER TRADES.

B. THE DRAWINGS ARE NOT INTENDED TO SHOW ALL JUNCTION OR PULL BOXES, FITTINGS AND CONNECTIONS, AND DETAILS OF WORK TO BE DONE. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY BOXES, FITTINGS AND CONNECTIONS FOR COMPLETE INSTALLATION IN A SATISFACTORY MANNER.

C. ANY OFFSETS IN CONDUIT REQUIRED OR NECESSARY TO AVOID INTERFERENCES WITH STRUCTURE, OR THE WORK OF OTHER TRADES, ETC., SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

COORDINATION

A. COORDINATE WORK WITH THAT OF OTHER SUBCONTRACTORS ON THE JOB AND ALSO WITH THAT OF THE OWNER IN ORDER THAT THERE BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF THE WORK.

MANUFACTURER'S RECOMMENDATIONS

A. UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER. A COPY OF THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS SHALL BE KEPT IN THE JOB SUPERINTENDENT'S OFFICE AND SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE AT ALL TIMES.

A. TEST ALL ELECTRICAL WIRING FOR CONTINUITY, SHORTS, IMPROPER GROUNDS AND INSULATION RESISTANCE. PANELBOARDS SHALL BE CHECKED FOR BALANCED LOADING AND CORRECT PHASE ROTATION. DISCREPANCIES SHALL BE CORRECTED. THE CONTRACTOR SHALL FURNISH TEST EQUIPMENT AND MATERIAL, AND SHALL BE RESPONSIBLE FOR REPLACEMENT OR REPAIR OF DAMAGE DUE TO TEST FAILURES.

B. AFTER INSTALLATION IS COMPLETE, VOLTAGE MEASUREMENTS SHALL BE MADE AT EACH PANELBOARD TO VERIFY PROPER SYSTEM VOLTAGES. VOLTAGE SHALL BE MEASURED UNDER LOAD CONDITIONS WHERE POSSIBLE. VOLTAGE READINGS SHALL BE RECORDED.

C. AFTER ALL TESTS HAVE BEEN COMPLETED. THIS CONTRACTOR SHALL CLEAN ALL LIGHT FIXTURES AND REPLACE ANY DEFECTIVE COMPONENTS. ALL EQUIPMENT AND CONDUIT SHALL BE CLEANED AND LEFT IN WORKING ORDER. ALL DEBRIS CREATED BY THE EXECUTION OF THE ELECTRICAL WORK SHALL BE REMOVED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO KEEP PANELS, ESPECIALLY CIRCUIT BREAKER HANDLES, CLEAN DURING CONSTRUCTION.

WIRE, CABLE AND CONNECTORS

A. WIRE AND CONNECTORS SHALL BE UL LISTED AND LABELED. COMPLY WITH NEMA, ICEA, ANSI AND ASTM STANDARDS PERTAINING TO

MATERIALS, CONSTRUCTION AND TESTING OF WIRE AND CABLE. B. EXCEPT AS OTHERWISE INDICATED, PROVIDE WIRE, CABLE AND CONNECTORS OF MANUFACTURER'S STANDARD MATERIALS, AS INDICATED BY PUBLISHED PRODUCT INFORMATION, DESIGNED AND CONSTRUCTED AS RECOMMENDED BY MANUFACTURER AND AS

REQUIRED FOR THE INSTALLATION. C. PROVIDE FACTORY FABRICATED 600 VOLT INSULATED WIRE OF SIZES, RATINGS, MATERIALS, AND TYPES INDICATED BELOW: 1. UL TYPE: XHHW-2 WET OR DRY LOCATIONS

DESCRIPTION

POWER BLOCK 2

POWER BLOCK 3

POWER BLOCK 4

2. MATERIAL COPPER

GENERAL NOTES:

NONE.

VOLTAGE

480 V

480 V

480 V

PHASE

D. CONDUCTORS #10 AWG AND SMALLER: SOLID OR STRANDED CONDUCTORS#8 AWG AND LARGER CONCENTRIC-LAY-STRANDED

(STANDARD FLEXIBILITY) E. CONDUCTOR IDENTIFICATION: CONDUCTORS SHALL BE IDENTIFIED BY COLOR AS FOLLOWS:

480Y/277 VOLT SYSTEMS **BROWN** A PHASE **B PHASE** ORANGE C PHASE YELLOW NEUTRAL/GROUNDED GRAY EQUIPMENT GROUND GREEN

F. COLOR FOR CONDUCTORS #10 AWG AND SMALLER, COLOR SHALL BE PERMANENT FACTORY APPLIED. CONDUCTORS #8 AWG AND LARGER SHALL BE BLACK WITH 3M OR EQUAL, COLOR CODED PHASE TAPE APPLIED AT THE TERMINATIONS. WHERE TYPE MC CABLE IS USED. CIRCUIT NUMBERS SHALL BE APPLIED AT ALL WIRE SPLICES AND TERMINATIONS.

G. WHEN WIRES ARE INSTALLED IN CONDUIT, SUFFICIENT SLACK SHALL BE ALLOWED TO PERMIT THE CONNECTION OF FIXTURES OR WIRING DEVICES WITHOUT ADDITIONAL SPLICE H. UNLESS OTHERWISE NOTED ON THE PLANS, BRANCH CIRCUITS SHALL BE RUN HOME IN INDIVIDUAL CONDUITS. AS FOLLOWS:

1. ALL POWER BRANCH CIRCUIT WIRING SHALL BE RUN HOME IN SEPARATE CONDUITS, AS INDICATED. 2. FEEDERS SHALL BE RUN IN INDIVIDUAL CONDUITS FROM THE FEEDER

SOURCE TO THE LOAD TERMINATIONS, AS INDICATED ON THE DRAWINGS. DO NOT COMBINE MULTIPLE FEEDERS IN A WIREWAY OR JUNCTION BOX. 3. USE COMPRESSION TYPE WIRE CONNECTORS FOR STRANDED

CONDUCTORS, FOR MOTOR CONNECTIONS, AND ALL OTHER CONNECTIONS OR SPLICES SUBJECT TO VIBRATION. WIRE NUTS MAY BE USED ELSEWHERE. 4. BRANCH CIRCUITS FOR POWER BLOCK, AS INDICATED ON THE

DRAWINGS, ARE APPROXIMATE SIZE ONLY, THIS CONTRACTOR SHALL OBTAIN THE EXACT RATING OF THE EQUIPMENT FROM THE MANUFACTURER, AND SHALL ADJUST THE SIZE OF THE PROTECTIVE DEVICE AND WIRE TO CONFORM TO THE REQUIREMENTS OF THE EQUIPMENT. ALL SUCH CHANGES SHALL BE SUBMITTED TO THE

ENGINEER FOR APPROVAL 5. TORQUE ALL BOLTED LUGS AND CONNECTORS TO TORQUE VALUES RECOMMENDED BY THE EQUIPMENT MANUFACTURER. WHERE TORQUE VALUES ARE NOT GIVEN. USE APPLICABLE TORQUE VALUES GIVEN BY UL STANDARDS #486A AND #486B. IF STUDS ARE COPPER OR STEEL, OR IF STEEL BOLTS ARE USED, USE A BELLEVILLE DISHED WASHER WITH A WIDE SERIES, HEAVY FLAT WASHER. TIGHTEN THE CONNECTION UNTIL THE BELLEVILLE IS FLAT. DO NOT RE-TIGHTEN

6. MINIMUM SIZE BRANCH CIRCUIT CONDUCTOR SHALL BE #12 AWG. . PRIOR TO ENERGIZATION, TEST ALL ASSOCIATED ELECTRICAL EQUIPMENT FOR LOW INSULATION RESISTANCE, GROUNDS, AND

SHORT CIRCUITS. 8. FURNISH AND SET UP ALL METERS, INSTRUMENTS, EQUIPMENT, AND

LABOR REQUIRED TO MAKE TESTS, AS INDICATED.

9. REPAIR AND/OR REPLACE AT CONTRACTOR'S EXPENSE, ANY EQUIPMENT DAMAGED IN THE PROCESS OF CONDUCTING THE TESTS. 10. TEST RESULTS SHALL SHOW VALUES NO SMALLER THAN THOSE

RECOMMENDED BY THE NEC, IPCEA, IEEE, ANSI AND NEMA. 11. PERFORM CONTINUITY TESTS ON ALL POWER AND CONTROL CIRCUITS, INCLUDING SPARE CONDUCTORS. CHECK PHASE IDENTIFICATION ON POWER CABLES.

BOXES AND FITTINGS

KW

200

200

200

FLA

260 A

260 A

260 A

A. COMPLY WITH NEC AS APPLICABLE TO CONSTRUCTION AND

INSTALLATION OF ELECTRICAL WIRING BOXES AND FITTINGS. B. PROVIDE ELECTRICAL BOXES AND FITTINGS WHICH HAVE BEEN UL LISTED AND LABELED.

ACCORDANCE WITH ARTICLE 370 OF THE NATIONAL ELECTRICAL

NONE.

PANEL

480V DISTRIBUTION

PANEL

480V DISTRIBUTION

PANEL 480V DISTRIBUTION

PANEL

C. PROVIDE PULL BOXES AND JUNCTION BOXES, AS INDICATED ON THE PLANS, OR AS REQUIRED, BOXES SHALL BE SIZED AS INDICATED ON THE PLANS AND WHERE NOT INDICATED, THEY SHALL BE SIZED IN

D. IN ALL CASES, WHERE TWO OR MORE DEVICES ARE INSTALLED IN GANG BOXES, GANG PLATES WITH SUITABLE OPENINGS SHALL BE PROVIDED

CIRCUIT AND EQUIPMENT DISCONNECTS

A. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE NEMA 3R

AND UL LISTED 480 VOLT OR 600 VOLT RATING AS REQUIRED. B. FURNISH AND INSTALL DISCONNECT SWITCHES WHERE INDICATED ON THE DRAWINGS AND/OR WHERE REQUIRED BY CODE, DISCONNECT SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE, AS INDICATED, OR REQUIRED. TO PROVIDE THE REQUIRED DISCONNECT MEANS AND/OR BRANCH CIRCUIT PROTECTION.

C. DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D COMPANY, G. E. COMPANY, SIEMENS, OR APPROVED EQUAL.

SUPPORTING DEVICES

A. PROVIDE SUPPORT FOR ALL ELECTRICAL WORK AS INDICATED ON THE DRAWINGS. AS SPECIFIED HEREIN, OR AS REQUIRED BY CODE.

B. COMPLY WITH NEC AS APPLICABLE TO CONSTRUCTION AND INSTALLATION OF ELECTRICAL SUPPORTING DEVICES.

C. COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI/NEMA STD. PUB. NO. FB 1, "FITTINGS AND SUPPORTS FOR CONDUIT AND CABLE ASSEMBLIES".

D. COMPLY WITH THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION "STANDARD OF INSTALLATION" PERTAINING TO ANCHORS, FASTENERS, HANGERS, SUPPORTS AND EQUIPMENT

MOUNTING. E. WHERE MANUFACTURED SUPPORTING DEVICES ARE PROVIDED, THEY SHALL COMPLY WITH MANUFACTURER'S STANDARD MATERIALS. DESIGN, AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED

PRODUCT INFORMATION. F. FURNISH AND INSTALL ALL NECESSARY HANGERS, SUPPORTS, ETC., AS REQUIRED, FOR RIGIDLY AND SECURELY MOUNTING ALL

CONNECTOR BOXES, PANELBOARDS, PULL BOXES, CONDUIT, AND ALL OTHER ITEMS OF ELECTRICAL WORK INCLUDED IN THIS PROJECT. G. ALL HANGERS AND SUPPORTS SHALL BE FASTENED TO THE BUILDING STRUCTURE BY MEANS OF BOLTS, U-CHANNEL STRUT SYSTEM, ANCHORS AND RODS, OR OTHER APPROVED MEANS.

ELECTRICAL IDENTIFICATION

A. FURNISH AND INSTALL A CONDUCTOR IDENTIFICATION BAND ON EACH CONDUCTOR IN EACH BOX/ENCLOSURE/CABINET WHERE WIRES OF MORE THAN ONE CIRCUIT ARE PRESENT, EXCEPT WHERE ANOTHER FORM OF IDENTIFICATION, SUCH AS COLOR CODED CONDUCTORS, IS PROVIDED. CONDUCTOR IDENTIFICATION BANDS SHALL BE T & B TYPE E-Z, OR APPROVED EQUAL.

B. FURNISH AND INSTALL AN ENGRAVED PLASTIC LAMINATE IDENTIFICATION PLATE AT EACH PANELBOARD AND DISCONNECT SWITCH. SECURE WITH STAINLESS STEEL SCREWS. INCLUDE THE FOLLOWING INFORMATION: C. DISTRIBUTION LIGHTING AND APPLIANCE PANELBOARDS - PANEL

NAME IN 1/4" LETTERS, VOLTAGE AND PHASE IN 1/8" LETTERS (E.G., "PANEL A, 120/240V, 1-PHASE, 4 WIRE"). D. EACH DISCONNECT SWITCH - LOAD SERVED, VOLTAGE AND CIRCUIT

NUMBER IN 1/8" LETTERS (E.G., "ACU-1, 240V, A-6")

GROUNDING

A. FURNISH AND INSTALL SYSTEM, ENCLOSURE, AND EQUIPMENT GROUNDING FOR ALL ELECTRIC WIRING FOR THE EQUIPMENT IN FULL COMPLIANCE WITH THE REQUIREMENTS OF LOCAL CODES, THE NEC, AND MANUFACTURER. ALL GROUNDING CONDUCTORS SHALL BE

B. PROVIDE GROUNDING PRODUCTS THAT ARE UL LISTED AND LABELED AND COMPLY WITH ESTABLISHED INDUSTRY STANDARDS FOR C. A CONTINUOUS (GREEN) EQUIPMENT GROUNDING CONDUCTOR

SHALL BE PROVIDED WITH ALL FEEDERS AND BRANCH CIRCUITS. THIS GROUNDING CONDUCTOR SHALL BE INSULATED SAME AS REQUIRED FOR 600 VOLT PHASE CONDUCTORS AND SHALL BE GREEN IN COLOR. WHERE POSSIBLE. GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 250-95 OF THE NEC AND SHALL TERMINATE BY MEANS OF COMPRESSION LUGS AT EACH GROUND BUS, PANELBOARD GROUNDING BAR, PULL BOXES, DISCONNECT SWITCHES, AND OTHER DEVICES.

➤ D. PROVIDE ALL NEW GROUNDING REQUIRED FOR NEW CHARGING STATIONS AS RECOMMENDED BY SYSTEMS MANUFACTURER.

3-500 KCMIL

3-500 KCMIL

VENDOR EQUIPMENT CONNECTION SCHEDULE WIRE SIZE CONDUIT SIZE CONNECTION REMARKS 3-500 KCMIL

Suite 4200 Memphis, TN 38118

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SSR Project #: 22640850



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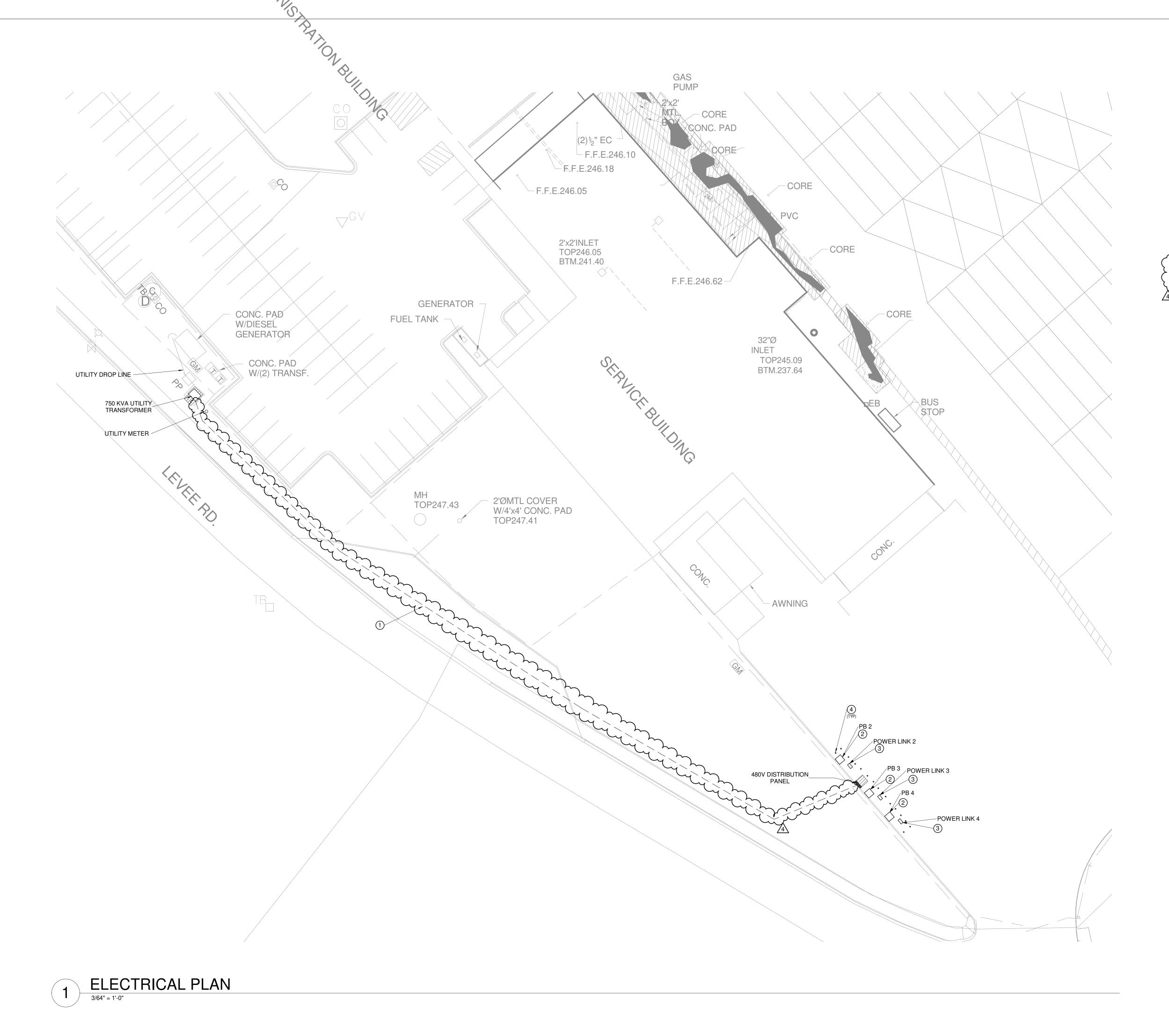
Author Designer

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ELECTRICAL SPECIFICATIONS AND **SCHEDULES**

> 2/17/2023 PROJECT STATUS CD

> > SHEET NUMBER E0.1



SHEET KEYED NOTES

- REFER TO SHEET E6.2 FOR CONDUIT AND WIRE SIZING. REFER TO DETAIL 1 "SECONDARY ELECTRICAL SERVICE DUCT BANK DETAIL" ON SHEET E0.0.
 - 2. REFER TO PANEL SCHEDULE FOR ASSIGNED CIRCUIT AND VENDOR SCHEDULES FOR CONDUIT AND WIRE SIZING ON SHEET E0.0.
 - 3. REFER TO CHARGEPOINT EXPRESS PLUS INSTALLATION MANUAL FOR WIRING DETAILS.
 - 4. BOLLARD TO BE ADDED 36" AWAY FROM ELECTRICAL EQUIPMENT AND 48" APART. MUST BE 42" ABOVE GRADE AND MADE OF 6" ROGOD STEEL CONDUIT CONCRETE FILLED. 3" MINIMUM CONCRETE ENCASED. REFER TO BOLLARD DETAIL ON SHEET E0.0.

SHEET GENERAL NOTES

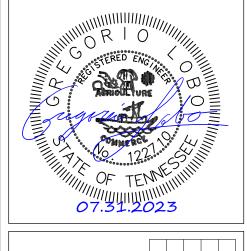
- A. CONTRACTOR TO COORDINATE WITH MLGW FOR NEW ELECTRICAL SERVICE. COORDINATE DOWNTIME WITH OWNER.
- B. ROUTING OF CONDUCTORS AND CONDUIT IS DIAGRAMMATIC IN NATURE AND REPRESENT GENERAL SCOPE OF WORK. IT IS NOT THE INTENT OF THIS DRAWING TO SHOW EVERY ITEM/DETAIL REQUIRED FOR COMPLETED INSTALLATION.

D. CHARGEPOINT POWER BLOCK AND POWER LINK TO BE PROVIDE BY
OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR PER
MANUFACTURER'S INSTALLATION MANUAL.

SSR Smith Seckman Reid, In

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www.ssr-inc.com SSR Project #: 22640850



REVISION 4	REVISION 3	REVISION 2	REVISION 1	DESCRIPTION	
7/31/2023	5/1/2023	4/5/2023	3/13/2023	DATE	
4	က	2	-	REV	

ELECTRIFICATION - PHAS

MATA BUS ELECTRIFICAT

CTRICAL POWER PLAN

D. WAM

D. BY

G. DI

SHEET TITLE

CTRICAL POWER PLAN

D. SHEET TITLE

CTRICAL POWER PLAN

D. SHEET TITLE

CTRICAL POWER PLAN

D. SHEET TITLE

ELECTRICAL POWER PLAN

2/17/2023

PROJECT STATUS

CD

SHEET NUMBER

E 1.1

SHEET GENERAL NOTES

- A. WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. EQUIPMENT SHALL BE LISTED/LABELED BY NATIONALLY RECOGNIZED TESTING AGENCY FOR THE INTENDED USE.
- B. COORDINATE FINAL LOCATIONS AND INSTALLATION REQUIREMENTS OF EQUIPMENT AND DEVICES WITH EXISTING CONDITIONS, OTHER TRADES, AND OWNER PRIOR TO ROUGH-IN. PROVIDE NECESSARY ACCESSORIES FOR COMPLETE AND PROPER OPERATION IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
- C. ELECTRICAL RISER DIAGRAM IS DIAGRAMMATIC IN NATURE AND REPRESENTS GENERAL SCOPE OF WORK. IT IS NOT THE INTENT OF THIS DRAWING TO SHOW EVERY ITEM/DETAIL REQUIRED FOR COMPLETED INSTALLATION.
- D. NOTES ON RISER DIAGRAM APPLY ONLY TO THE WORK SCOPE WITHIN THE BOUNDARY OF THIS SHEET ON WHICH IT APPEARS, UNLESS INDICATED OTHERWISE.
- . WHERE EQUIPMENT GROUND BUS BARS ARE SPECIFIED OR INDICATED ON MANUFACTURER INSTALLATION MANUAL, INSTALL IN LOCATION WHICH WILL ALLOW ADEQUATE ACCESS FOR FUTURE CONNECTIONS.
- PROVIDE FIRE PROOFING AT PENETRATIONS THROUGH RATED WALLS TO MEET OR EXCEED WALL RATING USING UL LISTED PRODUCTS IN ACCORDANCE WITH MANUFACTURE INSTRUCTION/UL PENETRATION DETAILS.
- G. RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER POSSIBLE. WHERE EXPOSED, RACEWAYS MUST BE INSTALLED IN NEAT AND WORKMANLIKE MANNER AND PARALLEL/PERPENDICULAR TO WALLS IN ASSOCIATED
- H. NUMBER OF BENDS SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS IN ACCORDANCE WITH NEC ARTICLES 342, 344, 358. WHERE REQUIRED, PULL POINTS SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 314.
- CONDUIT ROUTING IS NOT INDICATED ON RISER DIAGRAM. CONTRACTOR TO PROVIDE RACEWAYS IN ACCORDANCE WITH RISER DIAGRAM AND WIRE COUNTS AS REQUIRED TO ACHIEVE CIRCUITING AND OPERATION AS INDICATED.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT REQUIRING NEUTRAL CONNECTION. NEUTRAL CONDUCTOR SHALL BE CONSIDERED CURRENT-CARRYING FOR THE PURPOSES OF DERATING AND RACEWAY FILL CALCULATIONS. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED.
- . RACEWAYS SHALL BE LIMITED TO A MAXIMUM OF SIX CURRENT CARRYING CONDUCTORS (I.E. THREE 120V OR 277V BRANCH CIRCUITS), UNLESS OTHERWISE NOTED. WHERE THE NUMBER OF CURRENT CARRYING CONDUCTORS IS ALLOWED TO EXCÉED SIX, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER NEC TABLE 310.15(B).
- INSTALL ELECTRICAL EQUIPMENT SUCH THAT MANUFACTURER'S VENTILATION REQUIREMENTS AND NEC REQUIRED CLEARANCES ARE MAINTAINED.
- M. WHERE WIRE AND CONDUITS SIZES ARE SHOWN ON ONE PART OF A FEEDER OR BRANCH CIRCUIT, USE THE SAME WIRE AND RACEWAY FOR THE ENTIRE FEEDER OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED ON THE
- N. REFER TO CHARGEPOINT INSTALLATION GUIDE FOR EQUIPMENT CLEARANCES AND GROUNDING REQUIREMENTS.

SHEET KEYED NOTES

- 1. EXISTING 12.47KV 480V 300KVA UTILITY TRANSFORMER TO BE UPSIZE TO 750KVA BY MLGW.
- 3. PROVIDE A NEMA 3R 480V DISTRIBUTION PANEL WITH A BUSS RATING OF 1200A AND MCB RATED FOR 1000A. SEE KEY NOTE 7 FOR CABLE AND
- 4. CHARGEPOINT 200KW POWER BLOCK PROVIDED BY OWNER.
- 5. CHARGEPOINT POWER LINK (ELECTRIC DISPENSER) PROVIDED BY
- 6. PROVIDE 1 SET OF 3#500KCMIL, 1/0-G, 4"C. CABLE SHALL BE 90C RATING. REFER TO DETAIL 3 "UNDER SLAB CONDUIT DETAIL" ON SHEET E0.0.
- PROVIDE 3 SETS OF 4#400KCMIL, 2/0-G, 3"C. CABLE SHALL BE 90C
- 8. PROVIDE WIRING PER CHARGEPOINT EXPRESS PLUS INSTALLATION GUIDE. CABLE LENGTH BETWEEN POWER BLOCK AND POWER LINK SHALL NOT EXCEED 328FT.
- 9. REFER TO ELECTRICAL EQUIPMENT MOUNTING RACK DETAIL ON SHEET
- 10. PROVIDE SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY #SL3-100-480-3Y-SN. CIRCUIT BREAKER TO BE SIZED BY MANUFATURE.

RENOVAT	ION LEGEND		
SYMBOL	DESCRIPTION		
	EXISTING TO REMAIN		
	NEW CONSTRUCTION		
•	CONNECT TO EXISTING AT THIS POINT		





REVISION 2 REVISION 1 DESCRIPTION		
SVISIONS	5/1/2023 REV	

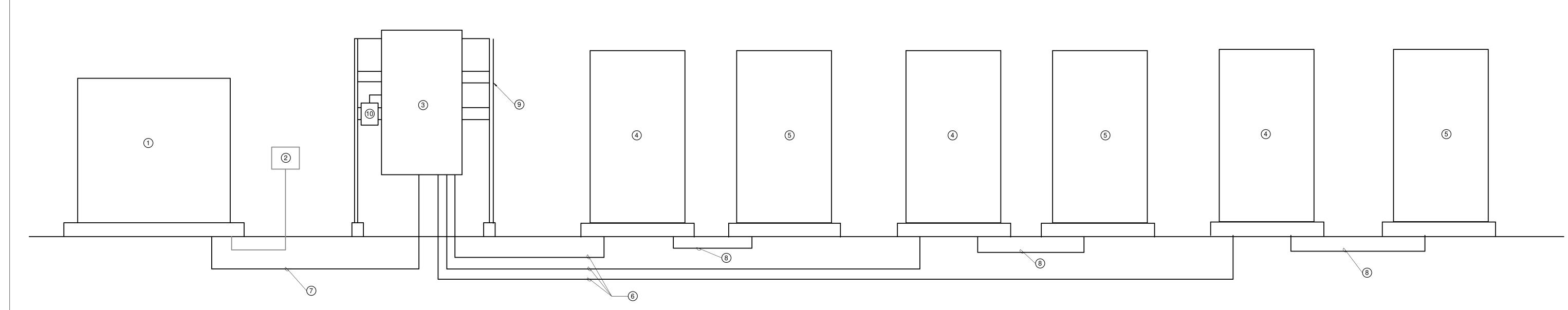
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ELEC

RISER DIAGRAM - SERVICE

BUILDING CHARGING STATION

2/17/2023 E6.2





GENERAL NOTES:

- 1. THE CONTRACTOR SHALL PROTECT ANY EXISTING STRUCTURES, PAVEMENTS, CURBS, SIDEWALKS, FENCES OR OTHER ELEMENTS DESIGNATED TO REMAIN. ANY EXISTING ELEMENT DAMAGED DURING DEMOLITION OR CONSTRUCTION OPERATIONS, SHALL BE RESTORED TO ORIGINAL CONDITION OR REPLACED IN KIND, AT NO ADDITIONAL COST TO THE OWNER.
- 2. THE CONTRACTOR SHALL PROTECT ALL EXISTING BENCH MARKS, IRON PINS, SURVEY CONTROL POINTS OR OTHER MONUMENTS TO REMAIN.
- 3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL SAFETY BARRIERS, TEMPORARY SIDEWALKS AND PROTECTION DEVICES TO COMPLY WITH MATA REQUIREMENTS THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION PERIOD.
- 4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO MINIMIZE CONFLICTS OR DISRUPTIONS OF NORMAL OPERATIONS.
- THE CONTRACTOR SHALL RESTORE ALL PAVED AREAS USED FOR ACCESS TO THEIR ORIGINAL CONDITION.
- THE CONTRACTOR SHALL ESTABLISH CONTROL POINTS AND AN ON SITE BENCHMARK TO BE USED FOR SITE LAYOUT.
- 7. DIMENSIONS ARE TO FACE OF CURB, FACE OF WALL, FACE OF BUILDING, EDGE OF PAVEMENT OR CENTER OF PAINT STRIPE UNLESS NOTED OTHERWISE.
- 8. THE CONTRACTOR, INCLUDING SUBCONTRACTORS, SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS ON DRAWINGS AS IT RELATES TO THEIR WORK PRIOR TO START OF CONSTRUCTION.
- 9. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- 10. VERIFY PROPOSED CONCRETE LAYOUT WITH OWNER PRIOR TO PLACING CONCRETE.
- 11. CONTRACTOR TO SUBMIT CONSTRUCTION SCHEDULE TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 12. ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 13. ALL REINFORCING STEEL ASTM A615 GRADE 60
- 14. CONCRETE SLAB ON GRADE 28 DAY STRENGTH SHALL BE F'c=4500 PSI (MIN)
- 15. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE W/ THE CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING THE PLACING OF THE CONCRETE.
- 16. ALL REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH THE ACI DETAILING MANUAL, SP-66, THE CRSI MANUAL OF CONCRETE PRACTICE AND ACI 318.
- 17. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI 315 AND CRSI "MANUAL OF STANDARD PRACTICE." ALL BAR SUPPORTS IN AREA WHERE CONCRETE WILL BE EXPOSED SHALL HAVE PLASTIC TIPPED FEET. THE CONTRACTOR IS CAUTIONED THAT CARE MUST BE EXERCISED TO PREVENT EXPOSURE OF THE TIE WIRE OR OTHER MATERIAL WHICH MAY CAUSE STAINING OF EXPOSED CONCRETE. PROPER COVER AS INDICATED ABOVE SHALL BE MAINTAINED ON ALL REINFORCEMENT.
- 18. UNLESS NOTED OTHERWISE, SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE CLASS B TENSION SPLICES AS FOLLOWS:

REINFORCING BARS:

WELDED WIRE FABRIC: WIRE SPACING PLUS 6"

LAP SPLICE SCHEDULE

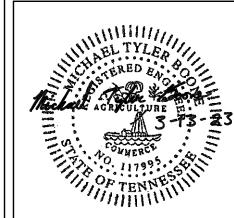
	#6 and Smaller				#7 and Larger			
f'c	Other	Bars	Top Bars		Other Bars		Top Bars	
	Class A	Class B						
3000 psi	44 d _b	57 d _b	57 d _b	74 d _b	55 d _b	72 d _b	72 d _b	93 d _b
4000 psi	38 d _b	50 d _b	50 d _b	65 d _b	48 d _b	62 d _b	62 d _b	81 d _b
5000 psi	34 d _b	45 d _b	45 d _b	58 d _b	43 d _b	56 d _b	56 d _b	72 d _b

- 1. ALL LAPS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
- 2. BEAMS AND COLUMNS: INCREASE LAPS SHOWN BY 50% IF CLEAR SPACING OF BARS IS LESS
- THAN 2d_b, OR IF CLEAR COVER OF BARS IS LESS THAN d_b.
- 3. WALLS, SLABS AND FOOTINGS: INCREASE LAPS SHOWN BY 50% IF CLEAR SPACING OF BARS IS LESS THAN 2d_b, OR IF CLEAR COVER OF BARS IS LESS THAN d_b.
- 4. INCREASE LAPS BY 25% FOR GRADE 75 REINFORCEMENT.
- 5. INCREASE LAPS BY 33% FOR LIGHTWEIGHT CONCRETE.
- 19. DOWELS SHALL BE PLACED BEFORE CONCRETE IS POURED. DOWELS SHALL NOT BE PUSHED INTO THE CONCRETE.
- 20. PROVIDE COMPRESSIVE STRENGTH TESTS CONFORMING TO ASTM C31 AND ASTM C39. ONE SET OF FOUR CYLINDERS FOR EACH 150 CUBIC YARDS OR FRACTION THEREOF, OF EACH STRENGTH OF CONCRETE PLACED IN ANY ONE DAY. TEST ONE SPECIMEN AT SEVEN DAYS, TEST TWO SPECIMENS AT 28 DAYS AND HOLD ONE IN RESERVE. PERFORM ONE SLUMP TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS. SUBMIT RESULTS DIRECTLY TO ENGINEER.
- 21. CONCRETE EXPOSED TO EARTH AND WEATHER SHALL HAVE LIMESTONE AGGREGATE AND ENTRAINED AIR.
- 23. CONCRETE PAVEMENT IS DESIGNED WITHOUT DEEP FOUNDATIONS DUE TO COST CONCERNS AND THE SHORT DURATION OF TIME (3-5 YEARS) MATA WILL OCCUPY THIS SITE. SOME SETTLEMENT IS EXPECTED ON THIS RECLAIMED LANDFILL SITE.
- 24. SECTION OF EXISTING CONCRETE DRIVEWAY IN PATH OF PROPOSED DUCT BANK TO BE SAW CUT TO CLEAN LINES AND REPLACED. MATCH EXISTING THICKNESS AND JOINT LAYOUT.

GRADING & DRAINAGE NOTES

- 1. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- 2. ALL FILL MATERIALS SHALL BE COMPACTED UNTIL THE SURFACE IS TIGHTLY BOUND AND SHOWS NO UNDUE RUTTING OR DISPLACEMENT UNDER OPERATION OF THE ROLLER OR OTHER
- 3. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION 2021 STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION.
- 4. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH OWNER.
- 5. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION.
- 6. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
- 7. FIELD VERIFY ALL EXISTING GRADING AND PROPOSED SLOPES PRIOR TO FORMING FOR ANY CONCRETE, NOTIFY ENGINEER WITH ANY DISCREPANCIES.
- 8. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ON CONCRETE PAVEMENT. SLAB TO BE FINISHED EVENLY IN SUCH A WAY THAT NO PONDING WILL OCCUR ON SURFACE.
- 9. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT/GRAVEL AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY.

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DESIGNED BY MTB CHECKED BY SSR SHEET TITLE

CIVIL NOTES

3/13/2023 PROJECT STATUS CDSHEET NUMBER

UTILITY NOTE: LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION LIMITS. CALL 1-800-351-1111 FOR UTILITY LOCATIONS. CALL 636-0237 FOR SEWER LOCATIONS.

