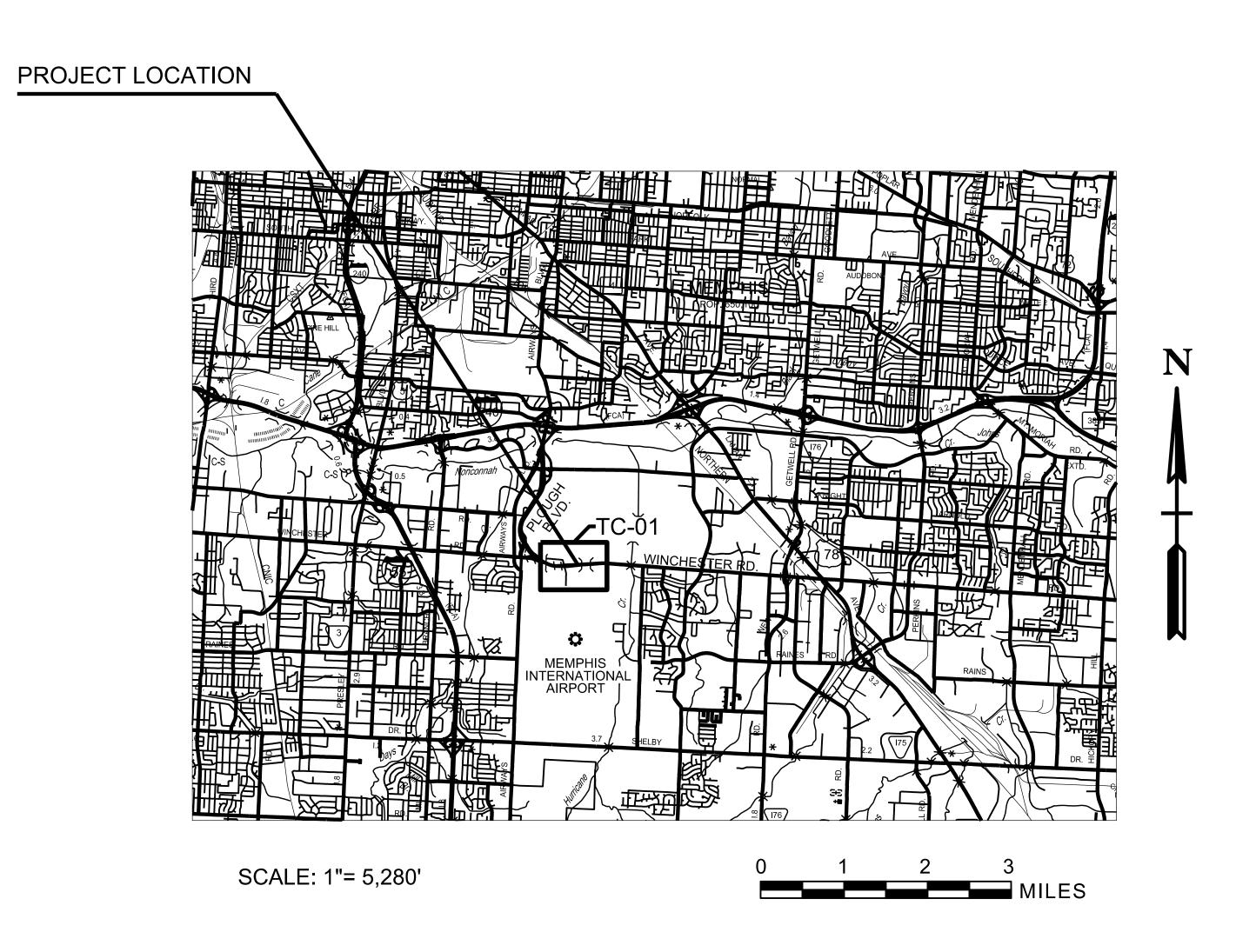
MEMPHIS INTERNATIONAL AIRPORT WINCHESTER TAXIWAY YANKEE BRIDGE ELECTRICAL DAMAGE REPAIR

2491 WINCHESTER RD, MEMPHIS, TN 38116



AIRPORT CONTACT INFORMATION:

JIMMA OWENS, ENGINEERING PROJECT MANAGER 2491 WINCHESTER RD, MEMPHIS, TN 38116 (901) 922-8250

LOCAL EMERGENCY PHONE NUMBERS:

COMMUNICATIONS CENTER (901) 922-8298

MEMPHIS AIRPORT BUILDING MAINTENANCE:

(901) 922-8040

LIQUIDATED DAMAGES:

\$2,000 PER CALENDER DAY OVER CONSTRUCTION TIME

TOTAL CONSTRUCTION TIME:

15 CALENDER DAYS



INDEX OF DRAWINGS

T-01	TITLE SHEET
E-01	ELECTRICAL PLAN
TC-01	TRAFFIC CONTROL PLAN

PROJECT NOTES

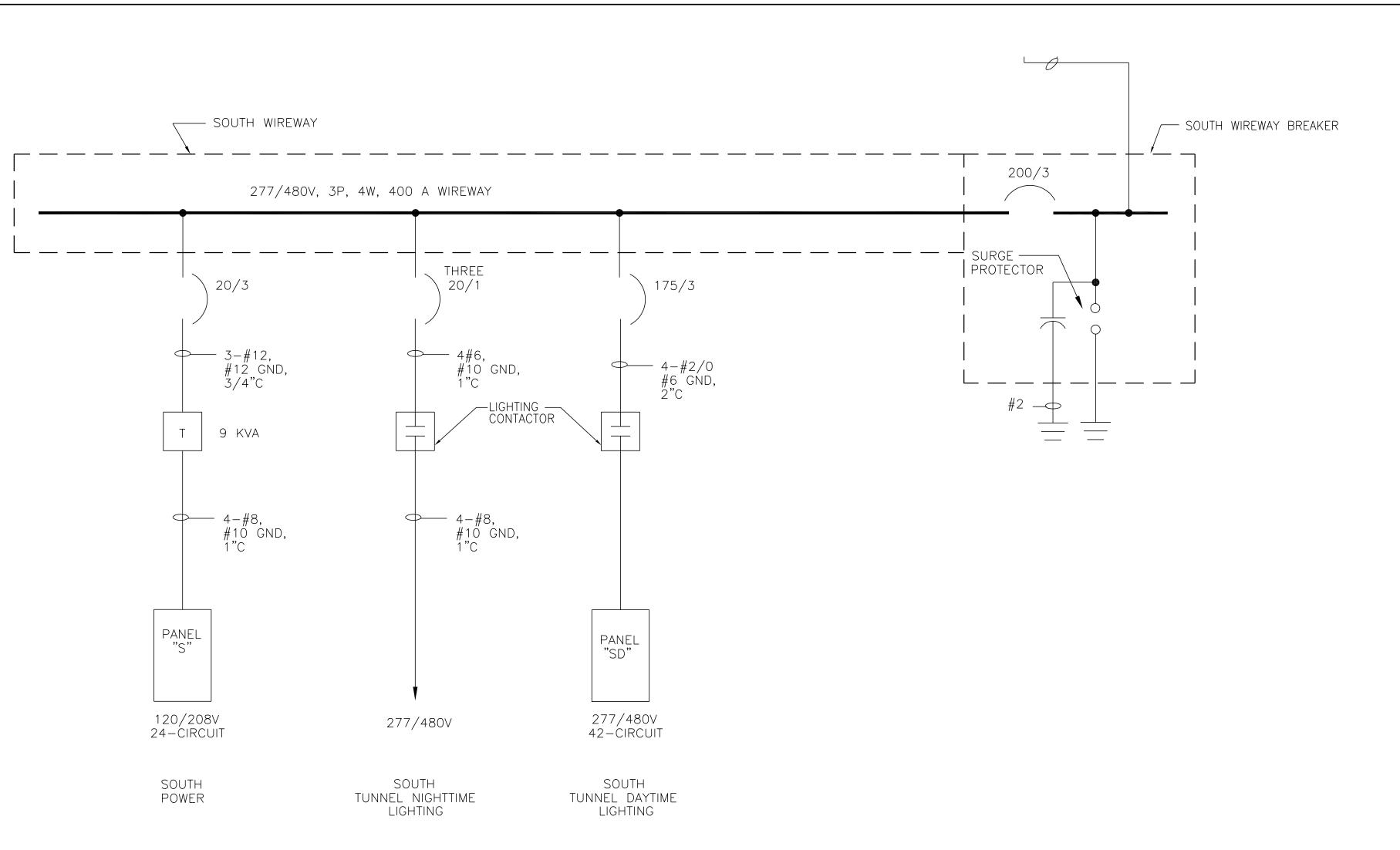
- CONTRACTOR'S FIELD SUPERINTENDENT MUST BE PRESENT AND RESPONSIBLE FOR OVERSEEING THE WORK PROGRESS WHEN ANY REPAIR WORK IS PERFORMED. FOR THE DURATION OF THE REPAIR PROJECT, CONTRACTOR MUST MAINTAIN AND FURNISH ELECTRONIC DAILY LOGS TO PROJECT TEAM AND OWNER DESIGNATED PERSONNEL DAILY. THE LOG DOCUMENTATION SHALL INCLUDE INFORMATION SUCH AS WEATHER CONDITION, WORK COMPLETED, PROGRESS PICTURES, FIELD CHANGES, CONCEALED CONDITIONS, TRANSITION OF MATERIAL, UNFORESEEN DAMAGES, INCIDENTS ETC. THIS INFORMATION SHALL BE INCLUDED AS PART OF THE CLOSEOUT DOCUMENT AT THE END OF THE PROJECT
- 2. THE CONTRACTOR SHALL PLAN AND SCHEDULE THE PROGRESSION OF THE WORK SO THAT FINISHED AREAS DO NOT HAVE TO BE OPERATED ON OR OTHERWISE USED AS ROUTES FOR MATERIAL TRANSPORTATION IN ORDER TO REACH REMAINING WORK. SCHEDULE ANY PREPARATION WORK TO MINIMIZE THE RISK OF DAMAGE, COORDINATE WIT OWNER THE SEQUENCE OF DEMOLITION AND CONSTRUCTION PRIOR TO STARTING OF WORK.
- CONTRACTOR SHALL SCHEDULE THE WORK PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS. CONTRACTOR WILL BE FULLY RESPONSIBLE FOR WATER DAMAGED TO THE PROPERTY DUE TO UNFINISHED OPEN WORK.
- 4. COORDINATE THE COMPATIBILITY OF THE PREPARATION WORK WITH THE REQUIREMENTS OF THE MATERIALS AND PROCEDURES SPECIFIED FOR THE NEW WORK. SCHEDULE PREPARATION WORK TO COINCIDE AS CLOSELY AS PRACTICABLE WITH THE INSTALLATION OF NEW MATERIALS.
- 5. ANY DAMAGE TO EXISTING SITE, INCLUDING BUT NOT LIMITED TO PAVEMENT, SIDEWALKS, ETC., USED AS HAUL ROUTES OR ACCESS ROUTES SHALL BE CONSIDERED THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL PROMPTLY REPAIR ANY DAMAGED PAVEMENT TO ITS ORIGINAL CONDITION, TO THE SATISFACTION OF THE OWNER AND ENGINEER. AT NO ADDITIONAL COST TO THE OWNER.
- 6. CONTRACTOR MUST FOLLOW THE OWNER REQUIREMENTS OF ID BADGING AND ACCESS TO WORK AREA THAT REQUIRE SECURITY CREDENTIALS
- 7. VERIFY JOB CONDITIONS PRIOR TO BEGINNING WORK. REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS WHICH MAY INTERFERE WITH SATISFACTORY COMPLETION OF WORK. RESOLVE ANY DISCREPANCIES PRIOR TO BEGINNING WORK. VERIFY ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION, INSTALLATION CRITERIA. COORDINATE ALL TRADES AND THE METHODS OF CONSTRUCTION. ALL WORK IS TO CONFORM WITH DRAWINGS AND SPECS. DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION. CONTRACTO TO VERIFY THE ACTUAL SIZE FOR PROPER INSTALLATION.
- 8. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, APPROVALS, LICENSES, ETC., FOR ALL TRADES. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL CODES, ORDINANCES, AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR FILING AND SECURING ALL NECESSARY PERMITS, APPROVALS, ETC., FOR ALL TRADES.
- 9. ENSURE THE PREMISES ARE MAINTAINED CLEAN AND FREE OF DEBRIS DURING REPAIR. COORDINATE THE FREQUENCY OF REMOVAL WITH OWNER. FINAL CLEANUP IS THE RESPONSIBILITY OF THE CONTRACTOR. REPAIR, PATCH, TOUCH-UP, AND MAINTAIN CLEANING THROUGHOUT THE PROJECT. REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIAL AND OTHER CONSTRUCTION DEBRIS. OWNER'S DUMPSTER(S) OR TRASH CAN(S) SHALL NOT BE USED FOR DISPOSAL OF ANY CONSTRUCTION WASTE. REPAIR GROUND DAMAGE CAUSED BY TRUCK TRAFFIC.
- 10. CONTRACTOR TO OVERSEE CLEANING AND ENSURE THAT THE PREMISES ARE MAINTAINED AND SECURED DURING CONSTRUCTION. DAILY CLEANUP AND FINAL CLEANUP IS THE RESPONSIBILITY OF THE CONTRACTOR. REPAIR, PATCH, TOUCH-UP, AND MAINTAIN CLEANING UNTIL ACCEPTANCE BY OWNER. OWNER RESERVES THE RIGHT TO REJECT ANY COMPLETED WORK THAT HAS NOT BEEN PROPERLY PROTECTED FROM CONSTRUCTION MATERIAL, UNPROTECTED FOOT TRAFFIC, OR ANY CONSTRUCTION ACTIVITY HAS POTENTIALLY COMPROMISED THE INTEGRITY OF THE NEW INSTALLATION.
- 11. COORDINATE AND OBTAIN APPROVAL FROM OWNER FOR LOCATION OF DUMPSTER, MATERIAL STAGING, ETC.
- 12. ALL MATERIAL STORED ON SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION UNTIL USE. FAILURE TO PROTECT MATERIAL MAY BE CAUSE FOR REJECTION OF WORK.
- 3. REMOVE CONSTRUCTION AND GENERAL DEBRIS FROM THE WORK AREA TO INCLUDE ANY SCREWS, METAL SCRAPS, FOOD, WATER BOTTLES AND MISCELLANEOUS GARBAGE.

 ALL WORK IS TO CONFORM WITH DRAWINGS AND SPECS. PAYMENT WILL NOT BE MADE TO CONTRACTOR ON CHANGES OR EXTRAS UNLESS THEY ARE VERIFIED AND APPROVED BY OWNER.
- 4. SHOULD CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS OR WHERE DETAIL REFERENCES OR CONTRACT DRAWINGS HAVE BEEN OMITTED, CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MOST EXPENSIVE MATERIALS AND CONSTRUCTION INVOLVED UNLESS THEY HAVE ASKED FOR AND OBTAINED WRITTEN PERMISSION FROM ENGINEER AS TO WHICH MATERIAL OR METHOD WILL BE REQUIRED.
- 15. SHOULD AN ERROR APPEAR IN THE SPECIFICATIONS OR DRAWINGS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR PROCEEDS WITH WORK AFFECTED WITHOUT INSTRUCTIONS FROM THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RESULTING DAMAGE OR DEFECT.
- 6. NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN APPROVED BY THE ENGINEER. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND SAMPLES.
- 17. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF WORK. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD MEASUREMENTS, FIELD CONSTRUCTION, INSTALLATION CRITERIA, COORDINATION OF ALL TRADES, AND THE METHODS OF CONSTRUCTION.
- 18. CONTRACTOR SHALL PROVIDE A SCHEDULE OF SHOP DRAWINGS, SAMPLES, AND CUT SHEETS TO ENGINEER FOR APPROVAL PRIOR TO ORDERING OR FABRICATION.

 CONTRACTOR'S RESPONSIBILITY FOR ERROR OR OMISSIONS IN SUBMITTAL IS NOT RELIEVED BY ENGINEER REVIEW OF SUBMITTAL. DISRUPTION SHALL BE MINIMAL OUTSIDE PROJECT LIMITS AT ALL TIMES DURING CONSTRUCTION.
- THE EXACT LIMITS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF OWNER.

 THE CONSTRUCTION SHALL NOT COMPROMISE SECURITY, LIFE SAFETY, OR FIRE SAFETY REQUIREMENTS. ANY WORK AFFECTING CODE REQUIREMENTS SHALL BE COMPLETED IN THE SAME WORK DAY OR TEMPORARY MEASURES SHALL BE TAKEN TO ASSURE SAFETY COMPLIANCE AT ALL TIMES.
- 20. EMERGENCY CONTACTS SEE LEFT.

					SHEET T-	-01
REVISION				DIVISION OF ENGINEERING		
ITEM NO.	DESCRIPTION OF CHANGE	APPROVAL DATE	TEL WAL			YANKEE BRIDGE AGE REPAIR 5, TN
				SURVEY BY:	DATE:	BOOK:
			12-14-2021	DESIGN BY: BARGE	DATE:	SCALE:1"=5280
			COMMERCA Vo. 115106		APPROVE	ED
	ELECTRICAL DAMAGE RE	PAIR	OFTENN			
E	DEVELOPER: CITY OF MEM ENGINEER: BARGE DESIGN SC			CITY TRAFFIC ENGINEER	DATE	CITY ENGINEER D



ONE-LINE DIAGRAM

SCOPE OF WORK:

REPLACE WIRE TROUGH AND NIPPLES TO ALL (6) SIX ENCLOSED CIRCUIT BREAKERS.

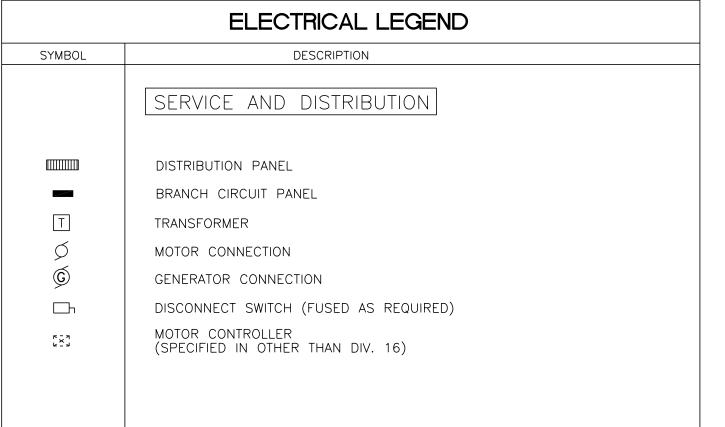
PROVIDE A MEG TEST ON ALL WIRES IN THE TROUGH AND REPLACE ANY THAT DO NOT

PASS THE TEST. REPLACE WIRE CONNECTORS AND INSULATORS TO AND FROM THE WIRE

TROUGH, REPLACE THE RUSTED ENCLOSED CIRCUIT BREAKER PANEL FOR NIGHT CIRCUIT

3. REPLACE SURGE PROTECTOR. REPLACE COVER ON GFCI DUTLET BELOW PANEL SD.

ELECTRICAL LEGEND



00.0 APPROXIMATE LOC. 90.00 54+80.00 +80.00 54+70.00 NEMA 3R 18"X15"X6" PULL BOX WITH WATER DRAIN AND AIR BREATHER 1+70.00 54+60.00 54+60.00 54+50.00 EDGE OF TAXIWAY -54+50.00 54+40.00 -\\54+40.00 C 54+30.00 1 54+30.00 54+20.00 H | 54+20.00 54+10.00 NI 11°1 □' ∩



LIGHTING CONTACTOR PANEL SIEMENS 175A XFMR BREAKERS — NEMA 3R ENCLOSURE BREAKERS — NEMA 3R BREAKERS — NEMA 3R BREAKERS — NEMA 3R ENCLOSURE ENCLOSURE ENCLOSURE CIRCUIT CIRCUIT CIRCUIT 2 0 \ WIREWAY MAIN BREAKER — 18"X15"X6" PULL BOX FOR RPU CONDUIT 20A 20A NEMA 3R ENCLOSURE WIREWAY 12"X12"X6'-0" NEMA 3R 277/480V NEMA 3R ─ NEMA 3R ENCLOSURE GFI/WP DUPLEX RECEPTACLE - SIDE WALK IN



PANEL MOUNTING DETAIL IN TUNNEL N.T.S.



EHEET TITLE:

ELECTRICAL

DESCRIPTION

19-1423-00 (19-1423-11)

WINCHESTER TWY YANKEE BRIDGE

PROJECT:

PROGRAM MANAGER

ARCHITECT

PARSONS

PARSONS TRANSPORTATION GROUP INC.

PROJECT OFFICE:

4225 AIRWAYS BLVD.

MEMPHIS , TN 38116

Renaissance

Group

9700 VILLAGE CIRCLE, SUITE 100 LAKELAND, TN 38002 P 901.332.5533 / F 901.332.5534

WWW.RGROUP.BIZ

SERVICES, LLC

2787 Stage Center Dr., Suite 101

901-379-0500

Bartlett, Tennessee 38134

www.innovativees-llc.com

BARGE

60 Germantown Court, Suite 100

Memphis, TN 38018 (901) 755-7166 www.bargedesign.com

20008-T11

This information is released solely for its use in the interest of the Memphis—Shelby County Airport Authority

All drawings received from MSCAA or produced for MSCAA as a work product shall be regarded as privileged information, not to be released to others without the express written permission of MSCAA.

Your acceptance of the released materials establishes your understanding of, and commitment to, providing

adequate control of the materials issued and produced.

REVISIONS

ARCHITECT JOB NO.

CONSULTANT JOB NO.

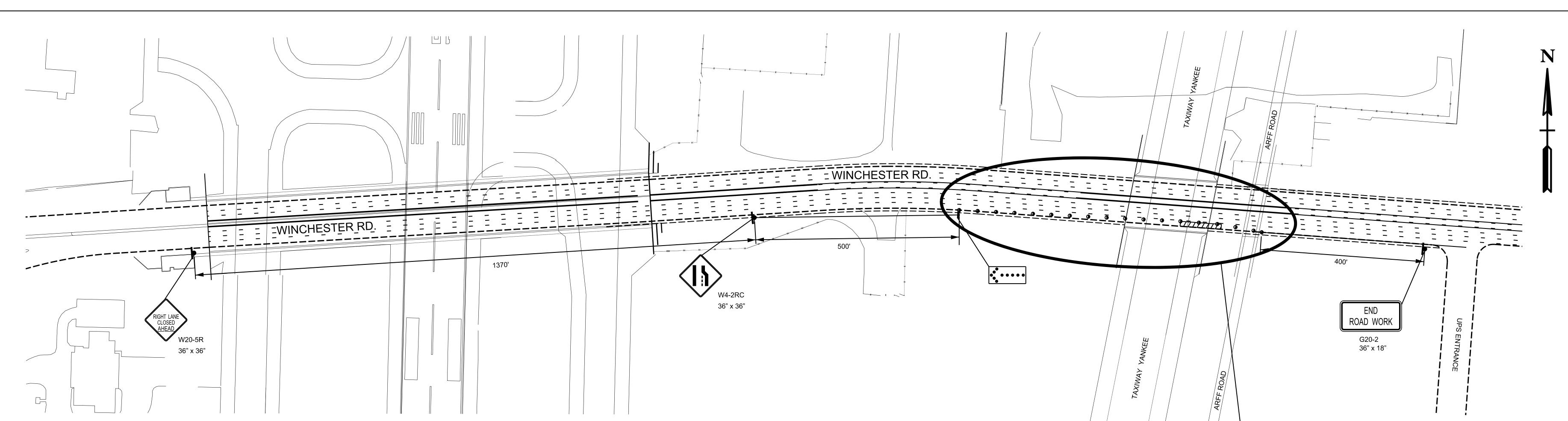
(MSCAA) or its Tenants.

PROGRAM MANAGEMENT CONSULTANT

DATE DWG NO.

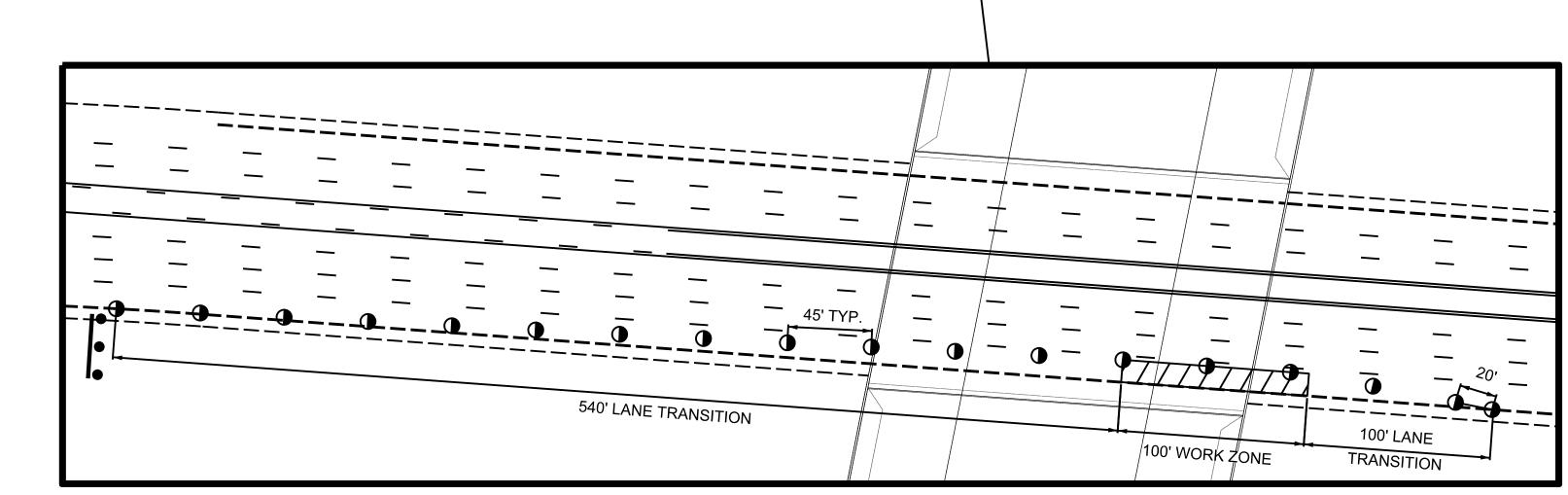
11.02.2021

SCALE R.T.S.



TRAFFIC CONTROL PLAN NOTES

- 1. SEE SECTION 6F.03, SIGN PLACEMENT, OF THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
- . SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
- NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
- 4. CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION DEPARTMENT (636-2462) AND TRAFFIC ENGINEERING DEPARTMENT (576-6710) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING ATRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- 5. SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF TENNESSEE MANUAL ONUNIFORM TRAFFIC CONTROL DEVICES
- 6. ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 TEMPORARY TRAFFIC CONTROL.
- 7. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- 8. SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINEDAT ALL TIMES. CONTRACTOR MUST USE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) AND INCLUDE ALTERNATE PEDESTRIAN ACCESS ROUTES FROM THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SECTIONS 6D.01, 6D.02, AND 6G.05 AND PEDESTRIAN BARRICADES AND CHANNELING DEVICES FROM THE MUTCD SECTIONS 6F.63, 6/F.68, AND 6F.71.
- 9. THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHINTHIRTY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
- 10. CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "C"WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION
- 11. CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THETRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
- 12.ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
- 13. WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
- 14. CONTRACTOR SHALL CONTACT THE CITY OF MEMPHIS SIGNAL SHOP AT 528-2844 FOR LOCATION OF SIGNAL CONDUIT AND WIRES
- 15.IF CONSTRUCTION ACTIVITIES REQUIRE OVER-NIGHT CLOSURE OF ANY PORTION OF THE ROADWAY, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
- 16.EXISTING STRIPING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING CONSTRUCTION. WHEN CONSRUCTION IS COMPLETE THE EXISTING STRIPING SHALL BE RETURNED TO ITS ORIGINAL
- 17.ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROLDEVICES (MUTCD).
- 18. THE CONTRACTOR IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK AT ANYTIME DURING THIS PROJECT. IF A SIDEWALK CLOSURE IS NEEDED, A REVISED TRAFFIC CONTROLPLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE, CONTRACTOR MUST USE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) AND INCLUDE ALTERNATE PEDESTRIAN ACCESS ROUTES FROM THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SECTIONS 6D.01, 6D.02, AND 6G.05 AND PEDESTRIAN BARRICADES AND CHANNELING DEVICES FROM THE MUTCD SECTIONS 6F.63, 6/F.68, AND 6F.71.
- 19.ANY CLOSURE OF THE RIGHT OF WAY SHALL BE TIME LIMITED TO THE ACTIVE DEMOLITION OR CONSTRUCTION. CONTINUOUS UNWARRANTED CLOSURE OF THE RIGHT OF WAY SHALL NOT BE ALLOWED FOR THE DURATION OF THE PROJECT. THE DEVELOPER SHALL PROVIDE ON THE TRAFFIC CONTROL PLAN, THE TIME NEEDED PER PHASE TO COMPLETE THAT PORTION OF THE WORK. TIME LIMITS WILL BEGIN ON THE DAY OF CLOSURE AND WILL BE MONITORED BY THE ENGINEERING CONSTRUCTION INSPECTORS (636-2462) ON THE JOB.



WINCHESTER TRAFFIC CONTROL SCALE = 1":50'

TRAI	FFIC CONTROL LEGEND		
SYMBOL	ITEM		
þ	SIGN (CONSTRUCTION)		
•	FLEXIBLE DRUMS (CHANNELIZING)		
	WORK ZONE		
•	FLASHING YELLOW BOARD		

REVISION **DESCRIPTION OF APPROVAL** CHANGE DATE ELECTRICAL DAMAGE REPAIR

DIVISION OF ENGINEERING WINCHESTER TAXIWAY YANKEE BRIDGE TRAFFIC CONTROOL PLANS MEMPHIS, TN SURVEY BY: BOOK: DESIGN BY: BARGE SCALE: <u>1":100'</u>

APPROVED

SHEET TC-01

CITY TRAFFIC ENGINEER DATE

DEVELOPER: CITY OF MEMPHIS ENGINEER: BARGE DESIGN SOLUTIONS