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AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4

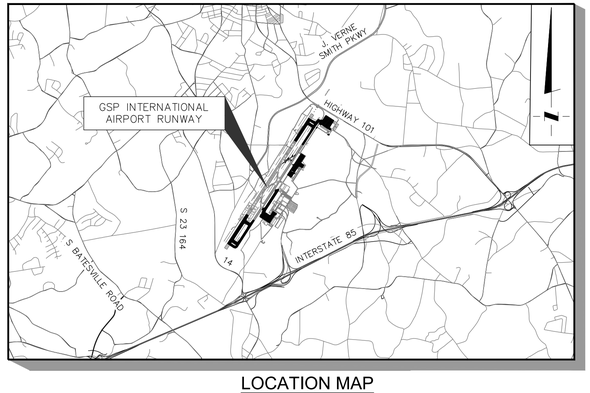
FOR THE

GREENVILLE-SPARTANBURG AIRPORT DISTRICT

GREER, SOUTH CAROLINA

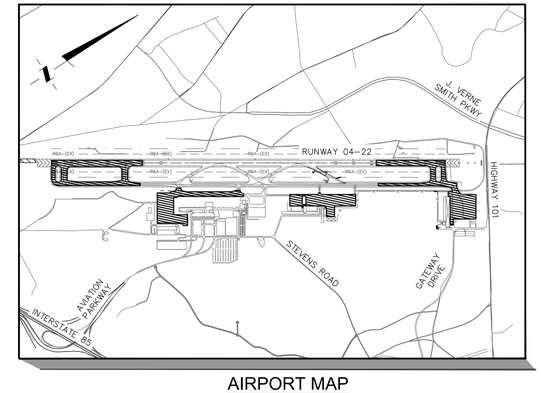
FEBRUARY 2022

WKD PROJECT NO: 20210666.00.CA



LOCATION MAP
SCALE: 1 IN. = 1 MILE

GSP INTERNATIONAL AIRPORT
ROGER MILLIKEN FIELD



AIRPORT MAP
SCALE: 1 IN. = 2000 FEET

WK DICKSON
community infrastructure consultants

The Palmetto Utility Protection Service, Inc.
810 Dutch Square Blvd, Suite 320 Columbia, South Carolina 29210 (803) 939-1117

South Carolina 811 Call 811 Before you Dig

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA
CALL 811
CONTRACTOR SHALL CONTACT THE UNDERGROUND LOCATORS EVERY 10 DAYS FOR AN UPDATE TO UTILITY LOCATIONS.

NOTICE TO CONTRACTOR

1. PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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SOUTH CAROLINA W. K. DICKSON & COMPANY, INC. No. C00177 CERTIFICATE OF AUTHORIZATION
C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BIRKMAIER
Feb 24 2022 12:43 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE: **COVER SHEET**

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
G100
WKD PROJ. NO.:
20210666.00.CA

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GENERAL SAFETY NOTES

1. CONTRACTOR SHALL BE FAMILIAR WITH THE FOLLOWING FAA SAFETY PROVISIONS AND IMPLEMENT THESE REQUIREMENTS DURING CONSTRUCTION. THE LATEST COPIES OF THESE GUIDELINES CAN BE OBTAINED FROM THE ENGINEER OR ON-LINE AT (HTTP://WWW.FAA.GOV/REGULATIONS_POLICIES).

- FAA ADVISORY CIRCULAR AC 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"
- FAA ADVISORY CIRCULAR AC 150/5210-5D, "PAINTING, MARKING AND LIGHTING OF VEHICLES USED ON AN AIRPORT"
- CODE OF FEDERAL REGULATIONS, 14 CFR PART 77, "SAFE EFFICIENT USE AND PRESERVATION OF THE NAVIGABLE AIRSPACE"
- FAA ADVISORY CIRCULAR AC 150/5210-24, "AIRPORT FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT"
- FAA ADVISORY CIRCULAR AC 150/5200-18C, "AIRPORT SAFETY SELF-INSPECTION"
- AC 150/5200-33B - HAZARDOUS WILDLIFE ATTRACTANTS ON OR NEAR AIRPORTS

2. CONTRACTOR SHALL COMPLY WITH GSP'S CONSTRUCTION SAFETY AND SECURITY GUIDELINES MANUAL.

3. CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION SAFETY AND PHASING PLAN ASSOCIATED WITH THE CONSTRUCTION PROJECT AND ENSURE THAT CONSTRUCTION PERSONNEL ARE FAMILIAR WITH SAFETY PROCEDURES AND REGULATIONS ON THE AIRPORT.

4. CONTRACTOR SHALL PROVIDE A POINT OF CONTACT TO GSP OPERATIONS WHO WILL COORDINATE AN IMMEDIATE RESPONSE TO CORRECT ANY CONSTRUCTION-RELATED ACTIVITY THAT MAY ADVERSELY AFFECT THE OPERATIONAL SAFETY OF THE AIRPORT.

5. CONTRACTOR SHALL PROVIDE A SAFETY OFFICER/CONSTRUCTION INSPECTOR FAMILIAR WITH AIRPORT SAFETY TO MONITOR CONSTRUCTION ACTIVITIES.

6. CONTRACTOR SHALL RESTRICT MOVEMENT OF CONSTRUCTION VEHICLES TO CONSTRUCTION AREAS BY FLAGGING AND BARRICADING OR PROVIDING ESCORTS, AS APPROPRIATE.

7. CONTRACTOR SHALL ENSURE THAT NO EMPLOYEES, EMPLOYEES OF SUBCONTRACTORS OR SUPPLIERS, OR OTHER PERSONS ENTER ANY PART OF THE AIR OPERATIONS AREAS (AOA) FROM THE CONSTRUCTION SITE UNLESS AUTHORIZED BY CONTRACTOR'S GATE GUARD.

8. CONTRACTOR EMPLOYEES SHALL PARK AND SERVICE ALL CONSTRUCTION VEHICLES IN AN AREA DESIGNATED BY THE RPR OUTSIDE THE RUNWAY SAFETY AREAS (RSA) AND OBSTACLE FREE ZONE (OFZ) AND NEVER ON A CLOSED TAXIWAY OR RUNWAY. EMPLOYEES SHALL ALSO PARK CONSTRUCTION VEHICLES OUTSIDE THE OBJECT FREE AREA (OFA) WHEN NOT IN USE BY CONSTRUCTION PERSONNEL (E.G., OVERNIGHT, ON WEEKENDS, OR DURING OTHER PERIODS WHEN CONSTRUCTION IS NOT ACTIVE).

9. CONTRACTOR PERSONNEL ENGAGED IN ACTIVITIES INVOLVING UNESCORTED OPERATION IN AIRCRAFT MOVEMENT AREAS SHALL BE TRAINED AN CERTIFIED BY GSP OPERATIONS, SHALL OBSERVE THE PROPER PROCEDURES FOR COMMUNICATIONS, AND SHALL MONITOR ATC COMMUNICATIONS.

10. NO CONSTRUCTION MAY OCCUR CLOSER THAN 250 FEET FROM THE RUNWAY 4-22 CENTERLINE UNLESS THE RUNWAY IS CLOSED OR RESTRICTED TO AIRCRAFT OPERATIONS REQUIRING AN RSA THAT IS EQUAL TO THE RSA WIDTH AVAILABLE DURING CONSTRUCTION.

11. CONTRACTOR SHALL PROMINENTLY MARK OPEN TRENCHES AND EXCAVATIONS AT THE CONSTRUCTION SITE WITH RED OR ORANGE FLAGS, AS APPROVED BY THE RPR, AND LIGHT THEM WITH RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS.

12. OPEN TRENCHES OR EXCAVATIONS ARE NOT PERMITTED WITHIN 250 FEET OF RUNWAY 4-22 CENTERLINE WHILE THE RUNWAY IS OPEN. IF THE RUNWAY MUST BE OPENED BEFORE EXCAVATIONS ARE BACKFILLED, COVER THE EXCAVATIONS APPROPRIATELY. COVERINGS FOR OPEN TRENCHES OR EXCAVATIONS MUST BE OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE HEAVIEST AIRCRAFT OPERATING ON THE RUNWAY.

13. EXCAVATIONS AND OPEN TRENCHES ARE NOT PERMITTED WITHIN THE TOFA OF A TAXIWAY WHILE THE TAXIWAY IS OPEN. IF THE TAXIWAY MUST BE OPENED BEFORE EXCAVATIONS ARE BACKFILLED, COVER THE EXCAVATIONS APPROPRIATELY. COVERINGS FOR OPEN TRENCHES OR EXCAVATIONS MUST BE OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE HEAVIEST AIRCRAFT OPERATING ON THE TAXIWAY AND APRON.

14. CONTRACTOR SHALL SEPARATE THE CONSTRUCTION SITE AND AREAS IN WHICH NO PART OF AN AIRCRAFT MAY ENTER BY USING LOW-PROFILE BARRICADES THAT ARE MARKED WITH DIAGONAL, ALTERNATING ORANGE AND WHITE STRIPES AND RED LIGHTS. (SEE DETAILS ON SHEET PH100)

15. STOCKPILED MATERIALS AND EQUIPMENT STORAGE ARE NOT PERMITTED WITHIN THE RSA AND OFZ OF AN OPERATIONAL RUNWAY OR WITHIN THE TOFA OF AN OPERATIONAL TAXIWAY. LOCATION OF STOCKPILED MATERIALS AND EQUIPMENT STORAGE SHALL BE COORDINATED AND APPROVED BY THE RPR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT STOCKPILED MATERIALS AND EQUIPMENT ADJACENT TO THESE AREAS ARE PROMINENTLY MARKED AND LIGHTED DURING HOURS OF RESTRICTED VISIBILITY OR DARKNESS. THIS INCLUDES DETERMINING AND VERIFYING THAT MATERIALS ARE STORED AT AN APPROVED LOCATION TO PREVENT FOREIGN OBJECT DAMAGE AND ATTRACTION OF WILDLIFE.

16. CONTRACTOR MAY NOT USE OPEN-FLAME WELDING OR TORCHES UNLESS ADEQUATE FIRE SAFETY PRECAUTIONS ARE PROVIDED AND THE RPR HAS APPROVED THEIR USE.

17. WASTE AND LOOSE MATERIALS, COMMONLY REFERRED TO AS FOD, ARE CAPABLE OF CAUSING DAMAGE TO AIRCRAFT LANDING GEARS, PROPELLERS, AND JET ENGINES. CONTRACTOR SHALL NOT LEAVE OR PLACE FOD ON OR NEAR ACTIVE AIRCRAFT MOVEMENT AREAS. MATERIALS TRACKED ONTO THESE AREAS MUST BE CONTINUOUSLY REMOVED DURING CONSTRUCTION. CONTRACTOR SHALL ALSO CAREFULLY CONTROL AND CONTINUOUSLY REMOVE WASTE OR LOOSE MATERIALS THAT MIGHT ATTRACT WILDLIFE.

18. CONTRACTOR SHALL NOT CONDUCT ANY CONSTRUCTION ACTIVITY WITHIN NAVIGATIONAL AID RESTRICTED AREAS AND CRITICAL AREAS, WITHOUT PRIOR APPROVAL FROM THE LOCAL FAA AIRWAY FACILITIES SECTOR REPRESENTATIVE. NAVIGATIONAL AIDS INCLUDE INSTRUMENT LANDING SYSTEM COMPONENTS SUCH AS THE LOCALIZER, THE GLIDESLOPE, APPROACH LIGHTS, PAPIS, ETC. SUCH RESTRICTED AREAS ARE DEPICTED ON CONSTRUCTION PLANS.

19. ALL CONTRACTOR EQUIPMENT OPERATING IN THE AOA SHALL BE IDENTIFIED BY THREE-FOOT (3') SQUARE ORANGE AND WHITE FLAGS WHENEVER SUCH VEHICLE AND EQUIPMENT ARE OPERATING ON THE AOA. ALL VEHICLES DRIVEN ON THE AOA ARE REQUIRED TO HAVE AN AIRPORT ISSUED AOA DECAL AFFIXED TO THE LOWER CORNER OF THE WINDSHIELD ON THE DRIVER'S SIDE OF THE VEHICLE. CONSTRUCTION EQUIPMENT THAT WILL NOT LEAVE THE AOA DAILY OR VEHICLES BEING ESCORTED ARE NOT REQUIRED TO HAVE AN AOA STICKER. IN ADDITION, ALL VEHICLES AND EQUIPMENT SHALL DISPLAY A COMPANY LOGO IN AT LEAST 4-INCH LETTERS AFFIXED ON EACH SIDE OF SUCH VEHICLES AND EQUIPMENT. DURING THE HOURS BETWEEN SUNSET AND SUNRISE AND AT ALL TIMES WHEN VISIBILITY IS IMPAIRED, VEHICLES AND MOBILE EQUIPMENT SHALL ALSO BE EQUIPPED WITH A FLASHING AMBER BEACON LIGHT MOUNTED ON THE TOP OF THE VEHICLE OR EQUIPMENT. BEACON LIGHTS SHALL PROVIDE:

   a. THREE HUNDRED AND SIXTY DEGREE (360°) AZIMUTH COVERAGE,
   b. EFFECTIVE INTENSITY IN THE HORIZONTAL PLANE NOT LESS THAN 40 OR MORE THAN 400 CANDELAS.
   c. BEAM SPREAD MEASURED TO 1/10 PEAK INTENSITY EXTENDING FROM 10 DEGREES TO 15 DEGREES ABOVE THE HORIZONTAL.
   d. SIXTY TO NINETY FLASHES PER MINUTE.

19. ALL VEHICLES AND/OR EQUIPMENT OPERATED IN THE AOA MUST BE SERVICEABLE AND SAFE; ANY VEHICLE OR EQUIPMENT THAT IS MECHANICALLY INOPERATIVE, LEAKING FLUIDS, LIGHTS OUT, ETC., MUST BE PROMPTLY REMOVED FROM THE AOA UNTIL REPAIRED.

20. NO CRANE SHALL BE ALLOWED ON THE WORK SITE UNTIL THE EQUIPMENT AND ITS INTENDED OPERATION ARE APPROVED BY THE RPR. THE CONTRACTOR SHALL PROVIDE THE RPR WITH NOT LESS THAN 72-HOUR ADVANCE WRITTEN NOTICE REQUESTING CRANE ACCESS TO THE AOA.

21. WHEN ACCESS IS APPROVED BY THE RPR, THE TIP OF THE CRANE BOOM SHALL BE IDENTIFIED BY THE ORANGE AND WHITE FLAG AND BY RED OBSTRUCTION LIGHTS, CONFORMING TO FAA REQUIREMENTS.

22. CONTRACTOR SHALL HAVE RADIOS ON SITE AT ALL TIMES TO COMMUNICATE WITH THE AIR TRAFFIC CONTROL TOWER AND MONITOR AIRCRAFT ACTIVITIES. COST FOR RADIOS ARE INCIDENTAL TO MOBILIZATION.

23. DURING PERIODS OF SEVERE WEATHER CONDITIONS OR OTHER OPERATIONAL EMERGENCIES, THE RPR MAY DIRECT THE CONTRACTOR TO RELINQUISH AREAS UNDER CONSTRUCTION AND TO PREPARE THE AREAS FOR AIRCRAFT OPERATIONS. IN THIS EVENT THE RPR WILL SO DIRECT THE CONTRACTOR TO EVACUATE THE AREA AND THE RPR WILL SPECIFY THE LIMITS OF THE AREA TO BE EVACUATED, THE TERM OF EVACUATION AND THE CONDITIONS GOVERNING THE RESTORATION WORK NECESSARY TO PREPARE THE AREA FOR AIRCRAFT OPERATION. THE CONTRACTOR SHALL PROMPTLY AND FULLY COMPLY WITH THE RPR'S DIRECTIVE. SHOULD THE DIRECTIVE ENTAIL EXTRA WORK UNDER THE CONTRACT, AS DETERMINED BY THE RPR, THE CONTRACTOR WILL BE REIMBURSED FOR SUCH EXTRA WORK. SHOULD THE DIRECTIVE ENTAIL A DELAY IN THE COMPLETION OF THE CONTRACT OR ANY DEFINED SUBDIVISION OF THE CONTRACT, AS DETERMINED BY THE RPR, THE CONTRACTOR MAY BE GRANTED AN EXTENSION OF TIME.

24. VEHICULAR TRAFFIC SHALL NOT CROSS ACTIVE AIRCRAFT MOVEMENT AREAS (RUNWAYS, TAXIWAYS OR AIRCRAFT PARKING APRON) WITHOUT PRIOR APPROVAL, AND PROPER RADIO COMMUNICATIONS OR ESCORTS.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTIONS OF EMPLOYEES AND SUBCONTRACTORS. PERSONNEL WHO DO NOT ABIDE BY AIRPORT RULES AND REGULATIONS ARE SUBJECT TO PROSECUTION AND OR MONETARY FINES.

26. ALL ACCIDENTS CAUSING PERSONAL INJURY OR PROPERTY DAMAGE SHALL BE REPORTED TO THE RPR IMMEDIATELY. THE CONTRACTOR(S) SHALL PROVIDE, AT THE SITE, SUCH EQUIPMENT AND MEDICAL FACILITIES AS ARE NECESSARY TO SUPPLY FIRST AID SERVICE TO ANYONE WHO MAY BE INJURED IN CONNECTION WITH THE PERFORMANCE OF THE WORK, WHETHER ON OR ADJACENT TO THE SITE. IN ADDITION, IF DEATH OR SERIOUS INJURIES OR SERIOUS DAMAGES ARE CAUSED, THE ACCIDENT SHALL BE REPORTED IMMEDIATELY BY TELEPHONE TO THE AIRPORT OPERATIONS CENTER AT (864) 848-6246 OR 911 DISPATCH.

27. THE CONTRACTOR'S EMPLOYEES, MUST HAVE A VALID GOVERNMENTAL IDENTIFICATION ON THEIR PERSON AT ALL TIMES. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL RESULT IN THE EMPLOYEE BEING ESCORTED OFF THE AOA AND FINES MAY BE IMPOSED AT THE CONTRACTOR'S EXPENSE.

28. ANY DELAY IN CONSTRUCTION OF PROJECT DUE TO VIOLATION OF FEDERAL AND/OR AIRPORT REGULATIONS SHALL BE ABSORBED BY THE CONTRACTOR.

29. CONTRACTOR WILL NOT BE ALLOWED TO USE ANY OF THE EXISTING TAXIWAY OR RAMPS, OTHER THAN WHAT IS SPECIFICALLY AUTHORIZED BY THE RPR.

30. CONTRACTOR IS REQUIRED TO MAINTAIN A POWER SWEEPER AND VACUUM TRUCK AND PERSONNEL CAPABLE OF OPERATING IT ON SITE AT ALL TIMES; AND SHALL CLEAN ALL WORK AREAS, HAUL ROUTES AND OTHER AIRPORT PAVEMENT AREAS CONTAINING DEBRIS AS A RESULT OF CONTRACTOR'S OPERATIONS.

31. CONTRACTOR IS REQUIRED TO HAVE A PERSON ON CALL 24-HOURS A DAY, 7 DAYS A WEEK FOR EMERGENCY MAINTENANCE OF AIRPORT HAZARD LIGHTING AND BARRICADES. CONTRACTOR MUST FILE THE CONTACT PERSON'S NAME WITH THE RPR.

32. CONTRACTOR SHALL PROVIDE AN EMERGENCY NOTIFICATION LIST (24-HOUR CONTACT LIST) TO THE RPR WHICH IDENTIFIES THE PROJECT MANAGER AND ALL SUBCONTRACTOR SUPERVISORS/LEADS.

33. ALL TAXIWAY AND RUNWAY CLOSURE REQUESTS MUST BE SUBMITTED TO THE RPR 72 HRS IN ADVANCE OF THE REQUESTED CLOSURE PERIOD. THE REQUEST MUST INDICATE THE AREAS NEEDED AND A SCHEDULE OF OPERATIONS AND TIME(S) REQUIRED FOR OPERATIONS WITHIN THE AREA.

34. ALL TAXIWAY AND RUNWAY CLOSURE REQUESTS ARE CONTINGENT ON REVIEW AND APPROVAL BY THE RPR AND WIND AND WEATHER AVAILABILITY. THE AIRPORT RESERVES THE RIGHT TO SHIFT ANY APPROVED CLOSURE PERIODS TO ALLEVIATE AIRCRAFT CONGESTION WHEN WEATHER CONDITIONS DICTATE.

35. IN ORDER TO COMPLETE THE WORK SHOWN UNDER THIS CONTRACT DURING GOOD WEATHER, THE CONTRACTOR MUST PLAN ON THE UTILIZATION OF MULTIPLE CREWS WORKING SIMULTANEOUSLY IN SEVERAL LOCATIONS.

36. CONSTRUCTION WILL OCCUR WITHIN AIR OPERATIONS AREA (AOA). THE AOA IS A SECURE AREA WITH RESTRICTED ACCESS. THE CONTRACTOR WILL BE REQUIRED TO MEET REQUIREMENTS FOR ENTERING AND OPERATING IN THE AOA AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ALL REQUIREMENTS FOR ENTERING AND OPERATING THE AOA. FURTHER, IT WILL REMAIN THE CONTRACTOR'S RESPONSIBILITY TO KEEP HIMSELF ADVISED OF ANY CHANGES IN REQUIREMENTS, AND TO ADHERE TO THE CURRENT REGULATIONS. INCLUDING CURRENT AND FUTURE REGULATIONS FOR SECURITY BADGING OF HIS PERSONNEL. THE CONTRACTOR WILL BE REQUIRED TO VIEW AN AIRPORT SECURITY VIDEO.

37. THE CONTRACTOR SHALL ALSO BE REQUIRED TO CONFINE HIS WORK AREA TO THE MINIMUM AMOUNT OF SPACE REQUIRED TO ACCOMPLISH THE ACTIVITY. ALL ITEMS, EQUIPMENT, BARRIERS, DEBRIS, ETC., SHALL BE CONTAINED AND MAINTAINED TO THE SATISFACTION OF THE ENGINEER, TO WITHSTAND ANY UNANTICIPATED AIRPLANE JET ENGINE JET BLAST OR WIND SURGES. NOTE, IN THE EVENT THAT A JET BLAST OR WIND SURGE DOES CAUSE ANY ITEM TO MOVE OUT OF THE CONTRACTOR'S WORK AREA ONTO AN ACTIVE TAXIWAY, RUNWAY, OR APRON, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER IN TURN SHALL IMMEDIATELY NOTIFY THE TOWER OF THE SITUATION. IMMEDIATE STEPS TO RECTIFY THE PROBLEM SHALL THEN BE IMPLEMENTED. AIRCRAFT OPERATION AND MANEUVERING ACTIVITIES SHALL HAVE THE PRIORITY IN THE EVENT OF CONFLICT.

38. WASTE MATERIAL PRODUCED BY THE CONTRACTOR'S OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND DISPOSED OF OFF AIRPORT PROPERTY AT NO ADDITIONAL COST TO THE OWNER.

39. WORK QUANTITIES ARE APPROXIMATE AND MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER OR RPR.

41. IT IS REQUIRED THAT THE CONTRACTOR SHALL COMPLY WITH ALL SECURITY REQUIREMENTS SPECIFIED HEREIN AND IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DESIGNATE TO THE RPR IN WRITING THE NAME OF ITS "CONTRACTOR SECURITY OFFICER" (CSO). THE CSO SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS OF THE CONTRACT. THE CSO FOR THIS PROJECT MAY BE THE PROJECT SUPERINTENDENT/SUPERVISOR. THE CSO SHALL BE REQUIRED TO FAMILIARIZE THEMSELVES WITH REQUIREMENTS OF OPERATING WITHIN THE AIRFIELD AND APPLICABLE RULES AND REGULATIONS. THE CSO SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND, FROM TIME TO TIME, OTHER SECURITY PROVISIONS ADOPTED BY GSP. ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.

42. THE CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RPR. NO OTHER ACCESS POINTS SHALL BE ALLOWED UNLESS APPROVED BY GSP AND DIRECTED BY THE RPR. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR GUIDED BY CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE VARIOUS CONSTRUCTION AREAS ON AIRPORT PROPERTY. IRECTIONAL SIGNING AT THE ACCESS POINT AND ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL BE AS DIRECTED BY THE RPR.

43. ALL CONTRACTOR'S MATERIAL ORDERS FOR DELIVERY TO THE SITE MUST BE ESCORTED BY THE CONTRACTOR. THIS WILL PRECLUDE DELIVERY TRUCKS FROM ENTERING INTO THE AIRPORT OR TAKING SHORT-CUTS THROUGH THE PERIMETER GATES AND ENTERING INTO AIRPORT OPERATIONS AREAS INADVERTENTLY.

44. THE MATERIAL STORAGE AREA, EQUIPMENT STORAGE AREA, PARKING AREA AND OTHER AREAS DEFINED AS REQUIRED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE AS SHOWN ON THE PROJECT DRAWINGS OR AS DIRECTED BY THE RPR. THE CONTRACTOR MAY ERECT, MAINTAIN AND REMOVE AT COMPLETION OF THE PROJECT AROUND THE PERIMETER OF THESE AREAS SUITABLE FENCING, MARKING AND/OR WARNING DEVICES VISIBLE FOR DAY/NIGHT USE.

45. THE CONTRACTOR ACCESS GATE DESIGNATED FOR USE MAY NOT BE UTILIZED BY OTHERS DURING THIS PROJECT. THE CONTRACTOR IS REQUIRED CONTROL ACCESS GATE AT ALL TIMES. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR ISSUES RELATED TO SITE ACCESS.

46. IDENTIFICATION OF PERSONNEL: ALL EMPLOYEES, AGENTS, VENDORS, INVITEES, ETC. OF THE CONTRACTOR OR SUBCONTRACTORS REQUIRING ACCESS TO THE PROJECT SITE OR STAGING AREA,IN ACCORDANCE WITH THE GSP SECURITY PROGRAM, WILL BE REQUIRED TO DISPLAY AIRPORT ISSUED IDENTIFICATION OR BE ESCORTED. SUPERVISORS SHALL BE BADGED WITH A GSP SIDA AT THE COMPLETION OF THE CONTRACT ALL BADGES WILL BE RETURNED TO THE AIRPORT OR A PER BADGE CHARGE WILL BE ASSESSED FOR ALL BADGES NOT RETURNED. AS PART OF THE BADGE APPLICATION PROCESS, EACH APPLICANT WILL BE FINGERPRINTED FOR USE IN A CRIMINAL HISTORY RECORDS CHECK (CHRC) AND TSA SECURITY THREAT ASSESSMENT (STA). ANY PERSON WHOSE CRIMINAL RECORD REVEALS OFFENSES LISTED BY TSA AS DISQUALIFYING OFFENSES WILL BE DENIED A BADGE AND WILL BE PROHIBITED FROM UNESCORTED ACCESS TO THE PROJECT SITE. ALL REQUIRED PAPERWORK AND ID BADGE APPLICATIONS SHALL BE SUBMITTED A MINIMUM OF THREE (3) WEEKS BEFORE ISSUANCE OF ANY BADGE. CONTRACTOR PERSONNEL REQUIRING AIRPORT ISSUED BADGES ARE RESPONSIBLE FOR ATTENDING SIDA TRAINING AND COMPLETE IN SECURITY BADGE APPLICATIONS, WHICH WILL INCLUDE AIR/GROUND RADIO, TAXIWAY AND AIRPORT FAMILIARIZATION. THERE MAY BE A CHARGE FOR THE CHRC AND STA BACKGROUND CHECK AND FINGERPRINTING PROCESS, THE COST OF WHICH SHALL BE INCIDENTAL TO ITEM C-105-6.1, MOBILIZATION. ALL EMPLOYEES, AGENTS, VENDORS, INVITEES, ETC. OF THE CONTRACTOR OR SUBCONTRACTORS HAVING ACCESS TO THE AOA UNDER ESCORT SHALL CONSPICUOUSLY WEAR EITHER SHIRT AND/OR HARD HAT THAT IDENTIFIES THE PERSON TO THE PROJECT AND EMPLOYER.

47. IDENTIFICATION OF VEHICLES: THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A LIST OF CONTRACTOR AND SUB-CONTRACTOR VEHICLES AUTHORIZED TO OPERATE ON THE SITE. VEHICLE PERMITS SHALL BE ASSIGNED IN A MANNER IN WHICH TO ASSURE POSITIVE IDENTIFICATION OF THE UNIT AT ALL TIMES. IN LIEU OF ISSUING INDIVIDUAL PERMITS, THE CSO CAN REQUIRE EACH VEHICLE TO DISPLAY A LARGE COMPANY SIGN ON BOTH SIDES OF THE VEHICLE AND ISSUE TO THE RPR, A CURRENT LIST OF COMPANIES AUTHORIZED TO ENTER AND CONDUCT WORK ON THE AIRPORT. CONTRACTOR EMPLOYEE PERSONAL VEHICLES ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.

48. THE PRIME CONTRACTOR SHALL COORDINATE HAUL ROUTE AND ACCESS OPERATIONS WITH ALL OTHER SUB-CONTRACTORS UTILIZING THE SAME ROUTES.

49. NO GATE IS TO BE LEFT UNATTENDED AT ANY TIME. GATES ARE TO BE CLOSED AND LOCKED WHEN NOT IN USE.

50. ALL SS GATES SHALL BE CLOSED DURING CONSTRUCTION, UNLESS THE CONTRACTOR PROVIDES A FULL-TIME BONDED SECURITY GATE GUARD WHO IS TRAINED AND BADGED FOR ACCESS TO THE AOA. IF A GATE WILL BE LEFT OPEN AND MANNED, THIS PROCEDURE MUST BE PRIOR COORDINATED AND APPROVED BY THE AIRPORT SECURITY COORDINATOR (ASC). THE CONTRACTOR MUST ESTABLISH PROCEDURES TO ENSURE THAT ONLY AUTHORIZED PERSONS AND VEHICLES HAVE ACCESS TO THE AOA AND TO PROHIBIT "PIGGYBACKING" BEHIND ANOTHER PERSON OR VEHICLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE AIRPORT SECURED AT ALL TIMES DURING CONSTRUCTION. A CURRENT "STOP LIST" WILL BE MADE AVAILABLE BY GSP OPERATIONS AND MUST BE OBTAINED BY THE CONTRACTOR'S SECURITY GUARD BEFORE OPENING ANY GATE FOR THE DAY.

51. NO VEHICLES, EQUIPMENT OR MATERIAL MAY BE PARKED OR STOCKPILED WITHIN 10 FEET OF ANY AIRPORT FENCING; PERMANENT OR TEMPORARY; EQUIPMENT AND MATERIAL STAGING MUST BE APPROVED BY THE AIRPORT PROJECT MANAGER AND RPR.

52. THE CONTRACTOR SHALL MAINTAIN A LIST OF ALL AUTHORIZED PROJECT PERSONNEL AND IT SHALL BE SUBMITTED TO GSP PRIOR TO BEGINNING WORK.

DEMOLITION NOTES:

1. PAVEMENT DEMOLITION SHALL BE FULL DEPTH SAW CUT, STABILIZED BASE COURSES TO REMAIN IN PLACE.

2. THE CONTRACTOR SHALL REPAIR IMMEDIATELY ANY DAMAGE TO EXISTING PAVEMENT TO REMAIN CAUSED BY THEIR OPERATION AT NO ADDITIONAL COST TO THE OWNER.

3. PCC REMOVAL SHALL INCLUDE REMOVAL OF CONCRETE PAVEMENT ONLY BY FULL DEPTH SAW CUT INTO PIECES SMALL ENOUGH TO BE LIFTED OUT TO AVOID DAMAGE TO THE SOIL CEMENT AND/OR SOIL SUBGRADE TO REMAIN. ANY DAMAGE TO THE SOIL CEMENT AND/OR SOIL SUBGRADE TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR COST.

4. PAVEMENT SLATED FOR REMOVAL AND ADJACENT TO EXISTING PAVEMENT TO REMAIN SHALL BE REMOVED TO THE INITIAL SAW CUT LINE PRIOR TO MAKING THE FINAL SAW CUT.

5. ALL CONCRETE PAVEMENT SHALL REMOVED TO AND WITHIN 1-FT OF THE FINAL SAW CUT LINE SHALL BE REMOVED BY HAND.

6. NO SAW CUTS WILL BE PERMITTED TO EXTEND BEYOND THE FINAL SAW CUT LINE.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES INCLUDING ELECTRICAL CONDUITS PRIOR TO SAW CUTTING PAVEMENT. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR COST.

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PH107	PHASING PLAN 2C
PH108	PHASING PLAN 2D
PH109	PHASING PLAN 2E
PH110	PHASING PLAN 2F
PH111	PHASING PLAN 2G
PH112	PHASING PLAN 3A
PH113	PHASING PLAN 3B
PH114	PHASING PLAN 3C
PH115	PHASING PLAN 3D
PH116	PHASING PLAN 4A
PH117	PHASING PLAN 4B
PH118	PHASING PLAN 4C
PH119	PHASING PLAN 4D
PH120	PHASING PLAN 4E
PH121	PHASING PLAN 4F
PH122	PHASING PLAN 4G
PH123	PHASING PLAN 4H
PH124	PHASING PLAN 4I
PH125	PHASING PLAN 4J
C100	REPAIR AREAS - OVERALL SHEET
C101	REPAIR AREAS FOR RUNWAY 4 - SHEET 1
C102	REPAIR AREAS FOR RUNWAY 4 - SHEET 2
C103	REPAIR AREAS FOR RUNWAY 4 - SHEET 3
C104	REPAIR AREAS FOR TAXIWAY L (SOUTH END) - SHEET 1
C105	REPAIR AREAS FOR TAXIWAY L (SOUTH END) - SHEET 2
C106	REPAIR AREAS FOR TAXIWAY L (SOUTH END) - SHEET 3
C107	REPAIR AREAS FOR RUNWAY 22- SHEET 1
C108	REPAIR AREAS FOR RUNWAY 22 - SHEET 2
C109	REPAIR AREAS FOR RUNWAY 22 - SHEET 3
C110	REPAIR AREAS FOR TAXIWAY L (NORTH END) - SHEET 1
C111	REPAIR AREAS FOR TAXIWAY L (NORTH END) - SHEET 2
C112	REPAIR AREAS FOR TAXIWAY L (NORTH END) - SHEET 3
C113	REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 1
C114	REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 2
C115	REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 3
C116	REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 4
C117	REPAIR AREAS FOR MRO APRON
C118	REPAIR AREAS FOR FBO RAMP - SHEET 1
C119	REPAIR AREAS FOR FBO RAMP - SHEET 2
C120	REPAIR AREAS FOR NORTH CARGO APRON - SHEET 1
C121	REPAIR AREAS FOR NORTH CARGO APRON - SHEET 2
C200	SLAB REPLACEMENT DETAILS - SHEET 1
C201	SLAB REPLACEMENT DETAILS - SHEET 2
C202	SPALL REPAIR DETAILS

PROJECT DESCRIPTION:

A. SPALL/POTHOLE/PATCH REPAIR:

B. CRACK ROUTING AND SEALING

C. JOINT SEALANT REPLACEMENT (ENTIRE PROJECT AREA)

D. FULL DEPTH PAVEMENT REPLACEMENT

E. PCC SLAB REPAIR/REPLACEMENT

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SOUTH CAROLINA
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No. 31405
CHRISTOPHER J. BRINKLEY
Feb 24 2022 12:43 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
GENERAL NOTES AND INDEX OF SHEETS

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
G101
WKD PROJ. NO.:
20210666.00.CA

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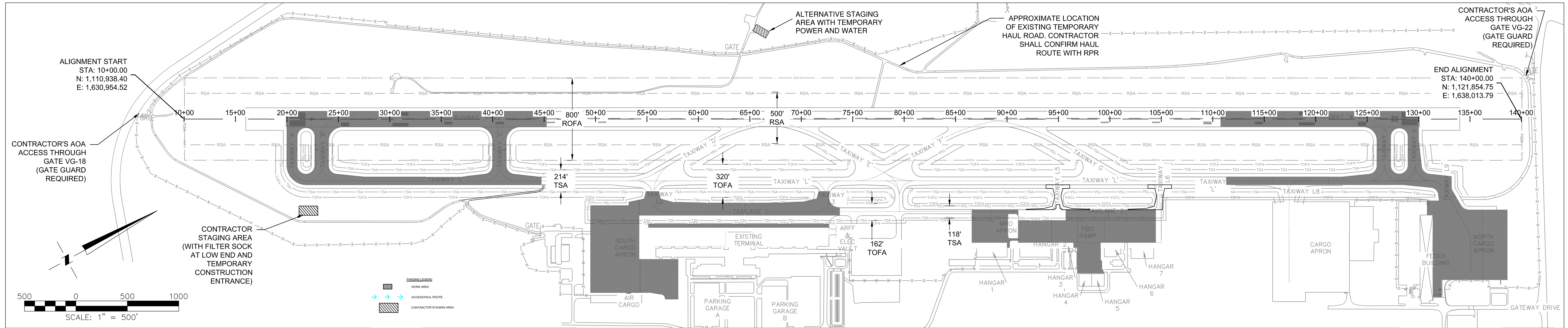


PROJECT GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL AIRPORT, FEDERAL, STATE AND LOCAL SAFETY REGULATIONS.

2. THE CONTRACTOR SHALL COMPLY WITH ALL CITY, COUNTY AND STATE TRAFFIC REGULATIONS CONCERNING THE USE OF STREETS AND ROADWAYS FOR HAULING. ANY DAMAGE DONE TO THE ROADWAYS DUE TO THE CONTRACTOR'S EQUIPMENT OR HAULING OPERATIONS SHALL BE REPAIRED, TO THE AGENCY'S SATISFACTION, AT NO COST TO THE OWNER.

3. ALL CONSTRUCTION WILL OCCUR WITHIN THE SECURITY IDENTIFICATION DISPLAY AREA (SIDA) AND AIRCRAFT OPERATIONS AREA (AOA). THIS IS A SECURE AREA WITH RESTRICTED ACCESS. THE CONTRACTOR WILL BE REQUIRED TO MEET ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THIS AREA AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL REQUIREMENTS FOR ENTERING AND OPERATING IN THE SIDA AND AOA.

4. THIS PROJECT IS WITHIN AN AREA OF CONTINUOUS LARGE JET AIRCRAFT OPERATIONS. ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO GSP AND THE FEDERAL AVIATION ADMINISTRATION (FAA) TO PROVIDE ACCEPTABLE LEVELS OF SAFETY FOR ALL AIRPORT OPERATIONS. PERIODIC MEETINGS WILL BE HELD TO COORDINATE THE ACTIVITIES OF THIS CONTRACT WITH OTHER AIRPORT OPERATIONS. ALSO THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT HIS EMPLOYEES, EQUIPMENT, AND WORK IN PROGRESS FROM AIRCRAFT NOISE AND JET ENGINE BLAST.

5. CONTRACTOR SHALL CONFINE WORK AREA TO THE MINIMUM AMOUNT OF SPACE REQUIRED TO ACCOMPLISH THE ACTIVITY.

6. ALL EXCESS MATERIAL PRODUCED BY THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND DISPOSED OF OFF AIRPORT PROPERTY AT NO COST TO THE OWNER.

7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING FACILITIES, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED BY THE CONTRACTOR, SATISFACTORY TO THE OWNER, AT THE EXPENSE OF THE CONTRACTOR.

8. THE CONTRACTOR IS ADVISED THAT OTHER CONSTRUCTION MAY BE IN PROGRESS DURING ALL OR PART OF THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THE WORK OF OTHER CONTRACTORS ON GSP AIRPORT PROJECTS. SEE CONTRACT DOCUMENTS FOR OTHER REQUIREMENTS AND PROCEDURES TO BE FOLLOWED DURING CONSTRUCTION.

9. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES. THE OWNER AND RPR BEAR NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES WELL IN ADVANCE OF CONSTRUCTION AND BEFORE ANY EXCAVATION AS EXTENDED WAIT TIMES ARE EXPECTED.

POWER	AT&T	FAA TECH OPS
DUKE ENERGY 808 DUNCAN REIDVILLE ROAD DUNCAN, SC 29334 (864)439-5989	MGR OSP PLNG & ENG DESIGN CONSTRUCTION & ENGINEERING - SE 471 GARLINGTON RD, SC 29615 (864)255-3849	MARTY DUVALL (864)607-8949 MARTY.DUVALL@FAA.GOV ERNIE SOWERS (704) 297-5138 ROBERT.SOWERS@FAA.GOV
EMERGENCY (POLICE, FIRE, EMS)	**GSP FACILITIES**	**SOUTH CAROLINA ONE-CALL**
(864)848-6246 OR 911	(864)848-6263	811

EXCAVATION IN AREAS OF EXISTING UTILITIES SHALL BE DONE BY HAND.
UTILITY LOCATION REQUESTS FOR GSP AND FAA FACILITIES ARE TO BE SUBMITTED THROUGH THE RPR.

10. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TEMPORARY UTILITIES REQUIRED FOR ADEQUATE CONSTRUCTION, SAFETY AND SECURITY. TEMPORARY UTILITIES ARE TO INCLUDE WATER, POWER, COMMUNICATIONS, GAS, DRAINAGE AND SANITARY. TEMPORARY UTILITIES SHALL BE CONSTRUCTED TO COMPLY WITH INDUSTRY STANDARDS AND APPLICABLE LAWS AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. TEMPORARY UTILITIES FROM OWNER'S EXISTING UTILITY SYSTEM IS NOT AVAILABLE FOR CONTRACTOR'S USE WITHOUT METERING AND WITHOUT CONTRACTOR'S PAYMENT OF USE CHARGES. ALL COSTS ASSOCIATED WITH TEMPORARY UTILITIES SHALL BE INCIDENTAL TO MOBILIZATION.

11. CONTRACTOR SHALL PROTECT ALL PAVEMENT MARKINGS NOT SCHEDULED TO BE REPLACED. ANY MARKING DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

12. THIS PROJECT REQUIRES A MINIMUM SAFETY ZONE OF 250 FEET FROM THE CENTERLINE OF AN ACTIVE RUNWAY AND DISTANCES FROM CENTERLINE OF AN ACTIVE TAXIWAY AS SHOWN IN THE CONTRACT DOCUMENTS. NO CONSTRUCTION ACTIVITY CAN TAKE PLACE IN THIS SAFETY ZONE WITHOUT PRIOR APPROVAL OF THE OWNER, CLOSURE OF PAVEMENT AND ISSUANCE OF APPROVED NOTAM.

13. THE CONTRACTOR'S ACCESS GATES AND ROUTES TO THE PROJECT SITES SHALL BE AS SHOWN IN THE CONTRACT DOCUMENTS.

14. SPECIFICATIONS ARE PROVIDED WHICH REQUIRE THE CONTRACTOR TO APPLY WATER, CHEMICALS, VEGETATION OR OTHER MATERIALS TO PREVENT THE OCCURRENCE OF DUST WHICH IS OBJECTIONABLE TO THE OPERATIONS OR USERS OF THE AREA. THESE SHALL INCLUDE, BUT ARE NOT LIMITED TO, AIRPORT AUTHORITY OPERATIONS, MAINTENANCE, AIRCRAFT OPERATIONS AND AIRFIELD OPERATIONS. THE CONTRACTOR SHALL ALSO DISCONTINUE OPERATIONS, WHICH VIOLATE EXISTING LAWS AND REGULATIONS OR CREATE AN UNDUE HAZARD TO AIR TRAFFIC. ALL COST FOR CONTROLLING DUST OR POLLUTANTS TO THE AIR OF ANY KIND SHALL BE INCIDENTAL TO THE CONTRACT.

15. THE CONTRACTOR SHALL CONDUCT THE FINAL CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING THE PAVEMENTS TO AIR TRAFFIC. THE CONTRACTOR IS RESPONSIBLE FOR CONTINUOUS DAILY CLEAN UP OF HIS/HER WORK AREA. THE CONTRACTOR SHALL CONDUCT POWER VACUUMING AND HAND CLEANING OF AFFECTED AIRPORT PAVEMENTS PRIOR TO REOPENING EACH PHASE OF THE PAVEMENTS TO AIR TRAFFIC. CONTRACTOR SHALL CONDUCT POWER VACUUMING AND HAND CLEANING OF ACTIVE TAXIWAYS AND RUNWAYS IMMEDIATELY FOLLOWING ANY ACCESS ONTO OR CROSSING OF THE PAVEMENT BY CONSTRUCTION TRAFFIC.

16. PRIOR TO THE START OF WORK ON THE PROJECT, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING INFORMATION FOR REVIEW BY THE RPR:

    A. A DETAILED PROGRESS SCHEDULE SHOWING THE PROPOSED SCHEDULE OF WORK.
    B. A SAFETY PLAN OUTLINING HOW THE SAFETY NOTES IN THESE PLANS AND SPECIFICATIONS WILL BE FOLLOWED DURING THE COURSE OF THE PROJECT.
    C. A COMPLETE LIST OF EQUIPMENT AND PERSONNEL TO BE USED INCLUDING STANDBY EQUIPMENT.

17. THE CONTRACTOR IS REQUIRED TO PROVIDE LIGHTING FOR CONSTRUCTION DURING THE HOURS OF DARKNESS AS REQUIRED. COSTS FOR LIGHTING SHALL BE INCIDENTAL TO THE CONTRACT.

18. THE CONTRACTOR IS ADVISED THAT FAILURE TO COMPLETE WORK IN THE ALLOTTED TIME, INCLUDING INTERMEDIATE MILESTONES AND TOTAL PROJECT TIME, WILL RESULT IN THE ASSESSMENT OF LIQUIDATED DAMAGES. SEE SPECIAL CONDITION SPECIFICATION SECTION SPECIAL CONTRACT PROVISION SECTION 60.

19. THE EXACT LIMITS, LIGHTING AND SECURITY REQUIREMENTS OF THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL BE ESTABLISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE RPR IN THE GENERAL AREAS SHOWN ON THE PLANS. ANY AND ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S OPERATIONS SHALL BE ARRANGED FOR AND PAID FOR BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE RPR. THE CONTRACTOR SHALL USE THE STORAGE AND STAGING AREA SHOWN ON THE PLANS FOR HIS/HER SHOP, MATERIAL AND EQUIPMENT STORAGE AND OTHER PROJECT RELATED ACTIVITIES, INCLUDING EMPLOYEE PARKING. ALL COSTS ASSOCIATED WITH PREPARING THE STORAGE AND STAGING AREA SITE SHALL BE INCIDENTATL TO MOBILIZATION. THIS INCLUDES BUT IS NOT LIMITED TO, CLEARING AND GRADING OF THE SITE, CONSTRUCTION OF ALL TEMPORARY UTILITIES, ACCESS ROADS, ALL SECURITY FENCING, CLEAN-UP AND RESTORATION OF SITE TO ORIGINAL CONDITION.

20. THE AREA OF WORK SHOWN ABOVE IS INTENDED TO BE AN APPROXIMATE GRAPHICAL REPRESENTATION ONLY.

21. CONTRACTOR'S ACCESS TO THE CONSTRUCTION SITE AND HAUL ROADS ARE IDENTIFIED ON THE PLANS. CONTRACTOR SHALL NOT USE ANY ACCESS OR HAUL ROADS OTHER THAN THOSE SHOWN UNLESS APPROVED BY THE RPR. CONTRACTOR MUST SUBMIT SPECIFIC PROPOSED ROUTES ASSOCIATED WITH CONSTRUCTION ACTIVITIES TO THE OWNER FOR EVALUATION AND APPROVAL AS PART OF THE SAFETY AND PHASING PLAN BEFORE BEGINNING CONSTRUCTION ACTIVITIES. THESE PROPOSED ROUTES MUST ALSO PROVIDE SPECIFICATIONS TO PREVENT INADVERTENT ENTRY TO MOVEMENT AREAS. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ENSURE THAT CONSTRUCTION TRAFFIC ON HAUL ROADS DOES NOT INTERFERE WITH NAVAIDS OR APPROACH SURFACES OF OPERATIONAL RUNWAYS.

22. HAULING WILL BE REQUIRED ALONG EXISTING TAXIWAYS, APRONS AND ADJACENT TO RUNWAYS THROUGHOUT THE DURATION OF THE PROJECT. ALL AIRCRAFT OPERATING PAVEMENTS SHALL BE KEPT FREE OF FOD AT ALL TIMES. THE HAUL ROUTE SHALL BE SWEPT WITH A VACUUM TRUCK AND CHECKED FOR FOREIGN OBJECT DEBRIS (FOD) AT ALL ACTIVE AIRCRAFT OPERATING PAVEMENTS AND PRIOR TO OPENING ANY AIRCRAFT OPERATING PAVEMENTS. THE CONTRACTOR SHALL MAKE PROVISIONS TO HAVE A POWERED BROOM AND VACUUM TRUCK ON SITE AT ALL TIMES. THE CONTRACTOR IS NOT ALLOWED TO UTILIZE RUNWAY 4-22 AS A HAUL ROUTE.

23. CONTRACTOR SHALL GIVE THE RIGHT OF WAY TO THE PUBLIC WHILE USING PUBLIC ROADS. CONTRACTOR SHALL NOT BLOCK ROADWAYS AND ACCESS TO BUSINESSES. CONTRACTOR SHALL PROVIDE FLAG MEN TO DIRECT TRAFFIC IF TRUCKS OR VEHICLES ARE TEMPORARILY PARKED ON PUBLIC OR AIRPORT OWNED ROADWAYS. MAINTENANCE OF TRAFFIC SHALL MEET ALL LOCAL REQUIREMENTS AND GUIDELINES .

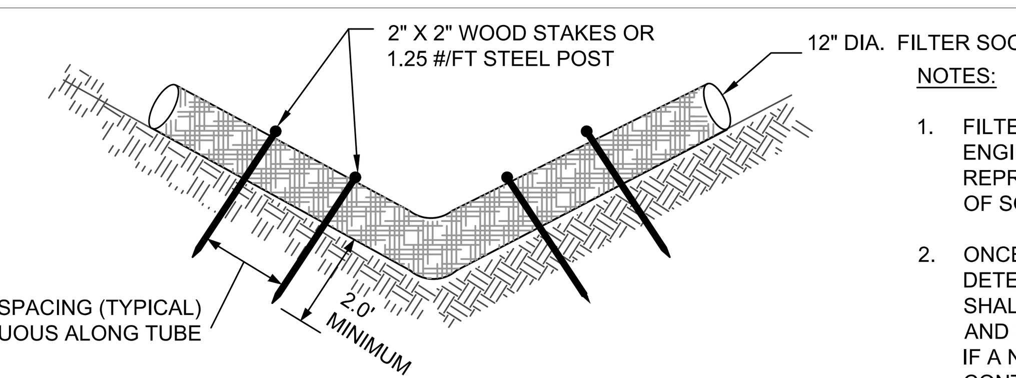
24. ANY USE OF PRIVATE PROPERTY BY THE CONTRACTOR, INCLUDING PRIVATE OR LEASED ROADWAYS AND APRONS, SHALL BE COORDINATED IN ADVANCE WITH THE PROPERTY OWNER FOR APPROVAL.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES FOR IMPROPER OR ILLEGAL USE OF PUBLIC OR PRIVATE PROPERTY IN THE PERFORMANCE OF THIS WORK AT HIS/HER EXPENSE.
26. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AT THE STAGING AREAS AND PROVIDE TEMPORARY ROUTING OF STORMWATER AROUND THESE AREAS AS NEEDED.

27. THE CONTRACTOR SHALL INSTALL TEMPORARY FILTER SOCK AROUND THE STAGING AREAS AND CONSTRUCTION ENTRANCE PER DETAILS.

28. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THEIR STAGING AREAS, EQUIPMENT AND MATERIALS LOCATED ON AIRPORT PROPERTY.

29. CONTRACTOR TO PROVIDE FLAGMEN WITH AIRBAND RADIOS TUNED TO LOCAL ATCT AND GROUND CONTROL FREQUENCY TO RESTRICT CONSTRUCTION TRAFFIC AND PERSONNEL WITHIN THE LIMITS OF THE ACCESS CONTROL AREAS SHOWN ON PLANS. FLAGMEN AND ACCESS CONTROL ARE INCIDENTAL TO MOBILIZATION.



NOTES:

1. FILTER SOCK SHALL BE PLACED AS DIRECTED BY THE ENGINEER OR THE RESIDENT PROJECT REPRESENTATIVE (RPR) TO PREVENT THE DISCHARGE OF SOIL INTO WETLANDS AND/OR STREAMS.

2. ONCE FINAL STABILIZATION IS ACHIEVED, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE STAKES, CUT MESH FOR FILTER SOCK AND SPREAD MULCH ON THE SURROUNDING GROUND. IF A NON-BIODEGRADABLE MESH IS USED, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF THE MESH.

3. INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY FILTER SOCK SHALL BE PAID FOR UNDER THE "TEMPORARY EROSION CONTROL" ITEM OF WORK.

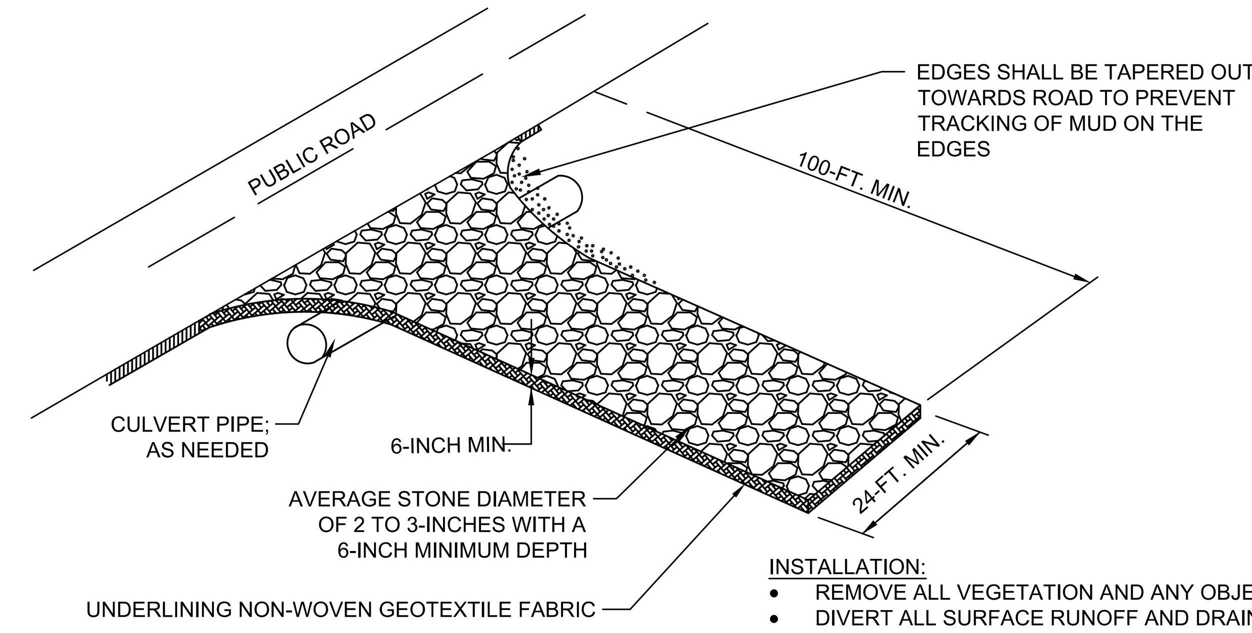
FILTER SOCK DETAIL NOTES:

A. RANGE OF PH IS 5.0-8.0 IN ACCORDANCE WITH TMECC 04.11-A, " ELECTROMETRIC PH DETERMINATIONS FOR COMPOST "
B. PARTICLE SIZE - 99% PASSING A 2 IN (50MM) SIEVE WITH A RANGE OF 30%-50% PASSING A 3/8 IN (9.5MM) SIEVE, IN ACCORDANCE WITH TMECC 02.02-B, " SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION " . (NOTE- IN THE FIELD, PRODUCT COMMONLY IS BETWEEN ½ IN [12.5MM] AND 2 IN [50MM] PARTICLE SIZE.)
C. MESH OPENING SIZE SHALL BE BETWEEN 1/8" AND 3/8".
D. MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.
E. MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN MADE MATERIALS.
F. A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
G. EXAMPLES OF MEDIA THAT MAY BE USED INCLUDE UNTREATED AND NON-PAINTED WOOD PALLETS, AND CLEAN LAND CLEARING DEBRIS OR TREE CHIPS PROVIDED THEY MEET THE CRITERIA SHOWN ABOVE.
H. FILTER SOCK SHALL BE FILTREXX FILTER SOCK, OR APPROVED EQUAL.

FILTER SOCK MAINTENANCE NOTES:

A. THE CONTRACTOR SHALL REMOVE SEDIMENT AT THE BASE OF THE UPSLOPE SIDE OF THE PERIMETER WHEN ACCUMULATION HAS REACHED 1//2 HEIGHT OF THE SOCK, OR AS DIRECTED BY THE ENGINEER.
B. THE FILTER MEDIA WILL BE DISPERSED ON SITE ONCE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED, OR AS DETERMINED BY THE ENGINEER.

FILTER SOCK DETAIL
NOT TO SCALE



NOTES:
1. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
2. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.

WHEN AND WHERE TO USE IT
STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD.

IMPORTANT CONSIDERATIONS
- IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFFSITE.
- WASHDOWN FACILITIES SHALL BE REQUIRED AS DIRECTED BY SCDHEC AS NEEDED.
- WASHDOWN AREAS IN GENERAL MUST BE ESTABLISHED WITH CRUSHED GRAVEL AND DRAIN INTO A SEDIMENT TRAP OR SEDIMENT BASIN.
- CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY VEHICLES.

INSTALLATION:
- REMOVE ALL VEGETATION AND ANY OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
- DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM STONES TO A SEDIMENT TRAP OR BASIN.
- INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
- INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- THE ENTRANCE SHALL CONSIST OF 1-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 24-FEET WIDE BY 100-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
- THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING OF MUD AT THE EDGE OF THE ENTRANCE.

INSPECTION AND MAINTENANCE:
- INSPECT ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
- CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY.
- MAKE DAILY INSPECTIONS DURING PERIODS OF WET WEATHER. MAINTENANCE IS REQUIRED MORE FREQUENTLY IN WET WEATHER CONDITIONS.
- RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY THE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE.
- IMMEDIATELY REMOVING MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING.
- FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
- REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

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SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER — No. 31405 — CHRISTOPHER J. BIRKMEYER
Feb 24 2022 12:43 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PROJECT LAYOUT PLAN AND GENERAL NOTES

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
G102

WKD PROJ. NO.:
20210666.00.CA

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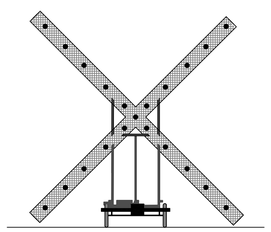
GENERAL PHASING NOTES

1. PHASING SHOWN IS BASED ON GSP OPERATIONAL REQUIREMENTS. CONTRACTOR TO SUBMIT DETAILED CONSTRUCTION SCHEDULE, SAFETY PLAN COMPLIANCE DOCUMENT AND CONSTRUCTION PHASING PLAN CONFORMING TO THE CONTRACT DOCUMENTS FOR ENGINEER APPROVAL PRIOR TO ISSUANCE OF A NOTICE-TO-PROCEED.
2. DESCRIPTIONS OF WORK LISTED WITHIN EACH PHASE PLAN ARE INTENDED TO PROVIDE GENERAL GUIDANCE ON THE SCOPE OF WORK WITHIN EACH WORK AREA, AND ARE NOT TO BE CONSIDERED ALL-INCLUSIVE. SEE ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR COMPLETE DESCRIPTION OF WORK REQUIRED.
3. THE CONTRACTOR SHALL REVIEW THE PROPOSED LOCATION OF BARRICADES WITH THE AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS A MINIMUM OF 3 WORKING DAYS PRIOR TO THE COMMENCEMENT OF EACH PHASE.
4. AT LEAST TWO (2) WEEKS PRIOR TO THE CLOSURE OF ANY AIRFIELD FACILITY, INCLUDING RUNWAYS, THE CONTRACTOR SHALL COORDINATE WITH THE AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS FOR TEMPORARY COVERING OR DECOMMISSIONING OF AIRFIELD LIGHTING, SIGNAGE, AND NAVIGATIONAL AIDS.
5. LOCATION OF GATE GUARDS/FLAGGERS SHALL BE COORDINATED WITH THE RPR AND AIRPORT OPERATIONS.
6. WORK INSIDE THE RUNWAY SAFETY AREA (RSA) SHALL BE PERFORMED DURING NIGHTLY RUNWAY CLOSURES AT APPROXIMATELY 12:30 AM - 05:30 AM. ACTUAL NIGHT WORK HOURS TO BE COORDINATED WITH AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS.
7. CONTRACTOR TO PERFORM SITE INVESTIGATION AND LOCATION OF ALL UTILITIES, INCLUDING AIRFIELD ELECTRICAL AND COMMUNICATIONS INFRASTRUCTURE, A MINIMUM OF 3 WORKING DAYS PRIOR TO ENTERING EACH PHASE OF WORK. CONTRACTOR TO COORDINATE WITH AIRPORT PROJECT MANAGER, RPR, AIRPORT OPERATIONS, AND AIRPORT MAINTENANCE FOR ACCESS A MINIMUM OF TWO (2) WEEKS PRIOR TO ENTERING EACH SUBSEQUENT WORK AREA.
8. TEMPORARY MARKINGS APPLIED NOT IN COMPLIANCE WITH AC 150/5340-1 (LATEST EDITION) WILL REQUIRE A NOTAM TO BE ISSUED REGARDING ANY NON-STANDARD MARKINGS. SPECIFICALLY, MARKINGS SPECIFIED WITHIN THESE PLANS TO BE APPLIED AT 50% APPLICATION RATE AND/OR WITHOUT GLASS BEADS SHALL REQUIRE A NOTAM. CONTRACTOR TO COORDINATE WITH AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS PRIOR TO REOPENING PAVEMENTS MARKED WITH NON-STANDARD TEMPORARY MARKINGS TO AIRCRAFT FOR ISSUANCE OF THE PROPER NOTAM BY AIRPORT OPERATIONS.
9. AIRPORT PROJECT MANAGER, RPR AND ENGINEER SHALL APPROVE COMPLETION OF WORK PER PHASE PRIOR TO CONTRACTOR STARTING SUBSEQUENT PHASE.

GENERAL OPERATIONAL NOTES

1. ALL OF THE CONTRACTOR'S MOVEMENTS AND ACTIVITIES WITHIN THE AIRPORT PROPERTY SHALL BE CLOSELY COORDINATED WITH THE RPR AND AIRPORT OPERATIONS AND SHALL BE IN COMPLIANCE WITH THE PROVISIONS OF THE CONTRACT DOCUMENTS AND FAA ADVISORY CIRCULAR 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION" (OR LATEST EDITION). NO WORK WILL BE ALLOWED WITHIN THE RUNWAY SAFETY AREA OR TAXIWAY/TAXILANE OBJECT FREE AREAS FOR ANY ACTIVE RUNWAY/TAXIWAY/TAXILANE UNTIL FULLY COORDINATED WITH THE RPR AND AIRPORT OPERATIONS AND/OR UNLESS THE AFFECTED FACILITY OR PAVEMENT HAS BEEN CLOSED TO AIRCRAFT. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO CROSS ANY ACTIVE RUNWAY, TAXIWAY, OR AIRCRAFT MOVEMENT AREA UNLESS AIRPORT OPERATIONS DETERMINES THAT THE WORK REQUIRES THE MOVEMENT. THIS WORK SHALL BE APPROVED BY THE RPR AND AIRPORT OPERATIONS AND A NOTAM ISSUED.
2. SPECIAL ACCESS REQUIREMENTS AND OPERATING LIMITATIONS ARE REQUIRED INSIDE THE SECURITY FENCE. THE CONTRACTOR SHALL DELINEATE WORK LIMITS WITHIN THESE AREAS AS PER PHASING PLAN. CONFINE CREW, EQUIPMENT AND MATERIALS OUTSIDE OF OBJECT FREE AREA (OFA) WHEN A TAXIWAY OR RUNWAY IS ACTIVE. SEE THE SPECIFICATIONS FOR SPECIAL CONDITIONS AND FOR OTHER CONDITIONS RELATING TO SAFETY.
3. THE CONTRACTOR SHALL HAVE ACCESS TO THE AIRPORT ONLY AT THE LOCATIONS DESIGNATED ON THE PLANS. ALL OTHER ACCESS SHALL BE BY SPECIAL REQUEST AND SUBJECT TO APPROVAL BY THE AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS. THE CONTRACTOR SHALL PROVIDE SECURITY GUARD HOUSES EQUIPPED WITH POWER, AIR CONDITIONING AND HEAT FOR SECURITY PERSONNEL. THE CONTRACTOR SHALL PROVIDE SECURITY PERSONNEL TO CONTROL MOVEMENTS THROUGH THE CONTRACTOR'S ACCESS GATE UNLESS THE GATE REMAINS LOCKED. CONTRACTOR IS RESPONSIBLE FOR ANY UNAUTHORIZED ACCESS THROUGH THEIR DESIGNATED WORK GATES AND RESPONSIBLE FOR CHECKING "STOP-LIST". GATE GUARDS WILL BE PROVIDED BY THE CONTRACTOR AFTER APPROVAL BY THE OWNER. THE CONTRACTOR WILL PROVIDE A PORTABLE TOILET FACILITY FOR THE EXCLUSIVE USE OF THE GATE GUARD AT NO ADDITIONAL COST TO THE OWNER.
4. RUNWAY, TAXIWAYS, APRON PAVEMENTS, NAVAIDS AND UNDERGROUND FACILITIES (TO REMAIN) MUST BE PROTECTED FROM DAMAGE CAUSED BY THE CONTRACTOR'S EQUIPMENT. ANY DAMAGE TO PAVEMENTS, HAUL ROUTES, OR FACILITIES CAUSED BY THE CONTRACTOR'S EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR IN A MANNER APPROVED BY THE OWNER AT NO COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES IN THE CONSTRUCTION AREA WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT. ANY DAMAGES TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF AIRPORT PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNER OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/PIPE REPAIR OR REPLACEMENT.
5. AIRCRAFT OPERATIONS AND EMERGENCY VEHICLES SHALL HAVE PRIORITY OVER ALL VEHICLES, EQUIPMENT AND PERSONNEL AT ALL TIMES. THE CONTRACTOR SHALL EMPLOY STRICT MEASURES TO PREVENT ANY CONFLICT BETWEEN HIS/HER PERSONNEL AND AIRCRAFT ON ANY ACTIVE AIRFIELD PAVEMENT. THE CONTRACTOR SHALL REMAIN CLEAR OF ACTIVE RUNWAYS AND TAXIWAYS. CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS FOR AIRPORT OPERATIONS AND EMERGENCY VEHICLES ALL ALL TIMES. ACCESS ROUTES SHALL BE OUTLINED IN THE CONTRACTOR'S CSPP AND COORDINATED WITH THE RPR AND AIRPORT OPERATIONS FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
6. IN ORDER FOR THE CONTRACTOR TO OPERATE WITHIN AIRPORT PROPERTY, APPROPRIATE NOTICES TO AIRMEN (NOTAMS) MUST BE ISSUED BY AIRPORT OPERATIONS. THESE NOTICES PROVIDE INFORMATION ON CLOSED, LIMITED, OR HAZARDOUS CONDITIONS TO AIRMEN AND USERS OF THE AIRPORT. A 72-HOUR NOTICE IS REQUIRED FOR ISSUANCE OF THE PROPER NOTAM. ALL CONSTRUCTION OPERATIONS MUST BE CLOSELY COORDINATED WITH THE AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS FOR NOTAM ISSUANCE.
7. PRIOR TO OPENING ANY AIRFIELD SURFACE FOR USE, THE CONTRACTOR WILL HAVE READY FOR OPERATIONS AND ALLOW ADEQUATE TIME FOR INSPECTION BY THE RPR AND AIRPORT OPERATIONS ANY PAVEMENT OR APRON THAT HAS BEEN CLOSED FOR WORK, OR THAT HAS BEEN USED FOR A CROSSING POINT OR HAUL ROUTE BY THE CONTRACTOR. NO BARRICADES SHALL BE REMOVED UNTIL THE INSPECTION BY AIRPORT OPERATIONS IS COMPLETE.
8. CONTRACTOR SHALL KEEP CONSTRUCTION EQUIPMENT BELOW APPROACH SURFACES AT ALL TIMES. IF THE PROJECT REQUIRES THE CONTRACTOR TO PENETRATE THE APPROACH SURFACE WITH CONSTRUCTION EQUIPMENT DURING CONSTRUCTION THE CONTRACTOR MUST NOTIFY THE AIRPORT PROJECT MANAGER, RPR, AND AIRPORT OPERATIONS AND A NOTAM MUST BE ISSUED BEFORE ANY PENETRATION OCCURS. GENERAL OPERATIONAL NOTES NES, ON HIGH-SPEED TAXIWAYS SHALL BE OBLITERATED DURING TAXIWAY CLOSURES. SEE FAA AC 150/5370-2G FOR REFERENCE.



NOT TO SCALE

RUNWAY CLOSURE MARKER NOTES:

LIGHTED RUNWAY CLOSURE MARKER DETAIL

1. THE CONTRACTOR SHALL PROVIDE TWO LIGHTED RUNWAY CLOSURE MARKERS FOR THEIR USE IN THE EVENT OF A RUNWAY CLOSURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MARKERS FOR THE DURATION OF THE PROJECT INCLUDING, BUT NOT LIMITED TO, PROVIDING FUEL, OIL CHANGES, ETC.

2. MARKERS SHALL BE PLACED ON BOTH ENDS OF ANY RUNWAY REQUIRING TEMPORARY CLOSURE AND SHALL COVER THE RUNWAY NUMERALS, AS SHOWN ON PLANS AND IN ACCORDANCE WITH FAA AC 150/5370-2G.

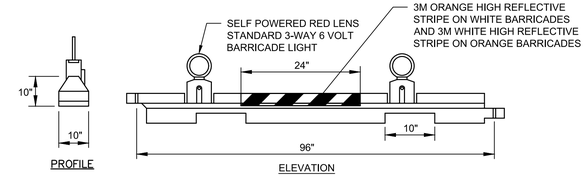
3. MARKERS SHALL BE PLACED IMMEDIATELY WHEN THE RUNWAY IS CLOSED. THE CONTRACTOR SHALL REMOVE THE MARKERS WHEN DIRECTED BY THE RPR OR AIRPORT OPERATIONS, PRIOR TO REOPENING THE RUNWAY.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FUEL COSTS AND BATTERY OPERATIONS AND HAVE ADDITIONAL FUEL AVAILABLE TO ENSURE NO INTERRUPTION IN PERFORMANCE. THE CONTRACTOR SHALL CHECK THE FUEL LEVEL EVERY DAY AND ADD FUEL AS NECESSARY.

5. ALL COSTS ASSOCIATED WITH SETTING UP, TRANSPORTING, MAINTAINING, AND REFURBISHING THE RUNWAY CLOSURE MARKERS SHALL BE INCLUDED IN "MOBILIZATION" ITEM OF WORK.

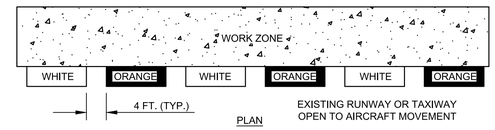
REOPENING OF A CLOSED SURFACE

1. PRIOR TO THE COMPLETION OF ANY PHASE, ALL SURFACES TO BE REOPENED AT THE COMPLETION OF THE PHASE SHALL BE SWEPT AND VACUUMED CLEAN. DEBRIS SHALL NOT BE SWEPT INTO GRASSED AREAS. ALL WORK SHALL BE COMPLETE AND ACCEPTED BY THE RPR AND AIRPORT OPERATIONS.
2. PRIOR TO THE REMOVAL OF ANY BARRICADES, THE CONTRACTOR SHALL REQUEST AN INSPECTION BY THE RPR AND AIRPORT OPERATIONS. A 24-HOUR NOTICE MUST BE GIVEN FOR THE INSPECTION. NO RUNWAY OR TAXIWAY MAY BE REOPENED UNTIL AIRPORT OPERATIONS HAS PERFORMED THE INSPECTION AND APPROVED THE REOPENING. SURFACES BELOW AND AROUND THE BARRICADES MUST BE CLEANED PRIOR TO REQUESTING THE INSPECTION.
3. AIRPORT OPERATIONS TO APPROVE RE-OPENING OF ANY RUNWAY AND/OR TAXIWAY AT THE END OF SHIFT PRIOR TO CONTRACTOR REMOVING ANY LIGHTED CLOSED RUNWAY MARKERS, BARRICADES, ETC. NEEDED FOR CLOSURES.



LOW PROFILE BARRICADE DETAIL

NOT TO SCALE



BARRICADE PLACEMENT DETAIL

NOT TO SCALE

BARRICADE NOTES:

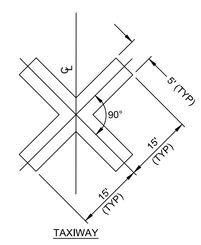
1. BARRICADE CONSTRUCTION OF HIGH IMPACT, UV-RESISTANT POLYETHYLENE.

2. EACH UNIT SHALL INCLUDE TWO RED STANDARD 3-WAY LIGHT, 12-INCH ORANGE FLAG AND 3M HIGH REFLECTIVE TAPE.

3. BARRICADES SHALL BE PLACED AS SHOWN UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.

4. CONTRACTORS SHALL FILL BARRICADES WITH WATER, SAND BAGS, OR OTHER MATERIAL ACCEPTABLE TO THE OWNER TO PREVENT OVERTURNING FROM JET BLAST AND WIND GUSTS.

5. PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO "MOBILIZATION".



NOTES:

1. CLOSURE MARKERS TO BE CONSTRUCTED OF EXTERIOR GRADE PLYWOOD, DOUBLE LAYERED SNOW FENCE, COLORED PLASTIC, OR A MATERIAL APPROVED BY THE ENGINEER WHICH WILL LAST UNTIL THE PROJECT IS COMPLETED AND CAN BE RELOCATED AS REQUIRED. MARKERS SHALL BE YELLOW IN COLOR. COST OF INSTALLATION AND MAINTENANCE OF CLOSURE MARKERS SHALL BE INCIDENTAL TO "MOBILIZATION" PAY ITEM.

TEMPORARY TAXIWAY CLOSURE MARKER DETAIL

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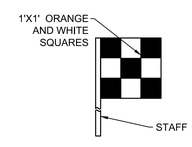

NOTES:

1. ALL VEHICLES SHALL HAVE A FLAG ON A STAFF OR AMBER FLASHING LIGHT ATTACHED TO THE VEHICLE SO THE FLAG WILL BE READILY VISIBLE.

2. THE FLAG WILL BE A MIN OF 3 FOOT SQUARE WITH A CHECKERED PATTERN OF INTERNATIONAL ORANGE AND WHITE AT LEAST 1 FOOT ON EACH SIDE.

VEHICLE FLAGGING DETAIL

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SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BRINSTER
Feb 24 2022 12:44 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING NOTES AND DETAILS

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH100
WKD PROJ. NO.:
20210666.00.CA

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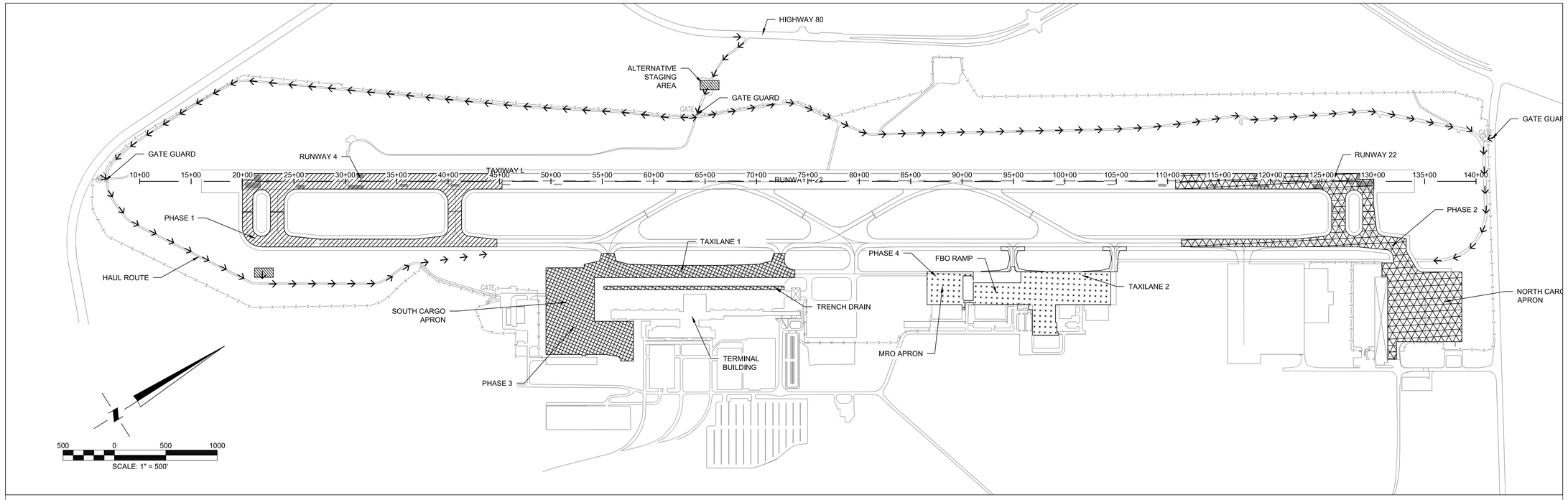

PHASING LEGEND:

- PHASE 1
- PHASE 2
- PHASE 3
- PHASE 4

PHASE DURATIONS AND LIQUIDATED DAMAGES

TOTAL PHASE CONTRACT TIME	PROJECT CONSTRUCTION PHASE	SUBPHASE CONTRACT DURATION (CALENDAR DAYS)	LIQUIDATED DAMAGES FOR CONTRACT DURATION OVERRUN
PHASE 1: 70 CALENDAR DAYS	PHASE 1A	70	$5,000 PER WORKING DAY
	PHASE 1B	12	$5,000 PER WORKING DAY
	PHASE 1C	19	$5,000 PER WORKING DAY
PHASE 2: 62 CALENDAR DAYS	PHASE 2A	45	$5,000 PER WORKING DAY
	PHASE 2B	45	$5,000 PER WORKING DAY
	PHASE 2C	4	$5,000 PER WORKING DAY
	PHASE 2D	10	$5,000 PER WORKING DAY
	PHASE 2E	8	$5,000 PER WORKING DAY
	PHASE 2F	25	$5,000 PER WORKING DAY
	PHASE 2G	15	$5,000 PER WORKING DAY
PHASE 3: 60 CALENDAR DAYS	PHASE 3A	34	$5,000 PER WORKING DAY
	PHASE 3B	20	$5,000 PER WORKING DAY
	PHASE 3C	20	$5,000 PER WORKING DAY
	PHASE 3D	20	$5,000 PER WORKING DAY
PHASE 4: 90 CALENDAR DAYS	PHASE 4A	45	$5,000 PER WORKING DAY
	PHASE 4B	45	$5,000 PER WORKING DAY
	PHASE 4C	13	$5,000 PER WORKING DAY
	PHASE 4D	10	$5,000 PER WORKING DAY
	PHASE 4E	45	$5,000 PER WORKING DAY
	PHASE 4F	30	$5,000 PER WORKING DAY
	PHASE 4G	30	$5,000 PER WORKING DAY
	PHASE 4H	6	$5,000 PER WORKING DAY
	PHASE 4I	8	$5,000 PER WORKING DAY
	PHASE 4J	12	$5,000 PER WORKING DAY
TOTAL CONTRACT TIME: 282 CALENDAR DAYS	RUNWAY CLOSURE (PHASE 1A, PHASE 2A, AND PHASE 2C)	WEEKDAYS FROM 12:30 AM TO 5:30 AM	$10,000 PER 15 MIN. SEGMENT (OR PORTION THEREOF)
	NORTH CARGO APRON CLOSURE (PHASE 2E AND PHASE 2F)	11AM TO 9 PM	$10,000 PER 15 MIN. SEGMENT (OR PORTION THEREOF)

OPERATIONAL CONSTRUCTION NOTES:

1. LIQUIDATED DAMAGES WILL BE ASSESSED BASED ON COMPLETION OF EACH SUB PHASE.
2. CONTRACTOR TO COMPLETE ALL WORK IN ONE PHASE BEFORE MOVING TO THE NEXT PHASE.
3. SEE INDIVIDUAL PHASING PLAN SHEETS FOR ADDITIONAL INFORMATION ON WORKING RESTRICTIONS WITHIN EACH SUB PHASE.
4. WORK ON SUB PHASES WITHIN A PHASE CAN BE COMPLETED CONCURRENTLY EXCEPT AS NOTED BELOW:

   DURING PHASE 1B NO WORK ON PHASE 1C.
   DURING PHASE 1C NO WORK ON PHASE 1B.

   DURING PHASE 2B NO WORK ON PHASE 2D.
   DURING PHASE 2D NO WORK ON PHASE 2B OR PHASE 2E.
   DURING PHASE 2E NO WORK ON PHASE 2D.

   DURING PHASE 3A NO WORK ON PHASE 3D.
   DURING PHASE 3B NO WORK ON PHASE 3C OR PHASE 3D - ONLY ONE GATE DOWN AT A TIME.
   DURING PHASE 3C NO WORK ON PHASE 3B OR PHASE 3D - ONLY ONE GATE DOWN AT AT TIME.
   DURING PHASE 3D NO WORK ON PHASES 3A, 3B, OR 3C - ONLY ONE GATE DOWN AT AT TIME.

   DURING PHASE 4A NO WORK ON PHASE 4B.
   DURING PHASE 4B NO WORK ON PHASE 4A.
   DURING PHASE 4D NO WORK ON PHASES 4F, 4G, 4H, OR 4J.
   DURING PHASE 4E NO WORK ON PHASES 4D, 4F, OR 4H.
   DURING PHASE 4F NO WORK ON PHASE 4E OR PHASE 4G.
   DURING PHASE 4G NO WORK ON PHASE 4E.

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SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRNBACHER
Feb 24 2022 12:44 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
OVERALL PHASING PLAN

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH101

WKD PROJ. NO.:
20210666.00.CA

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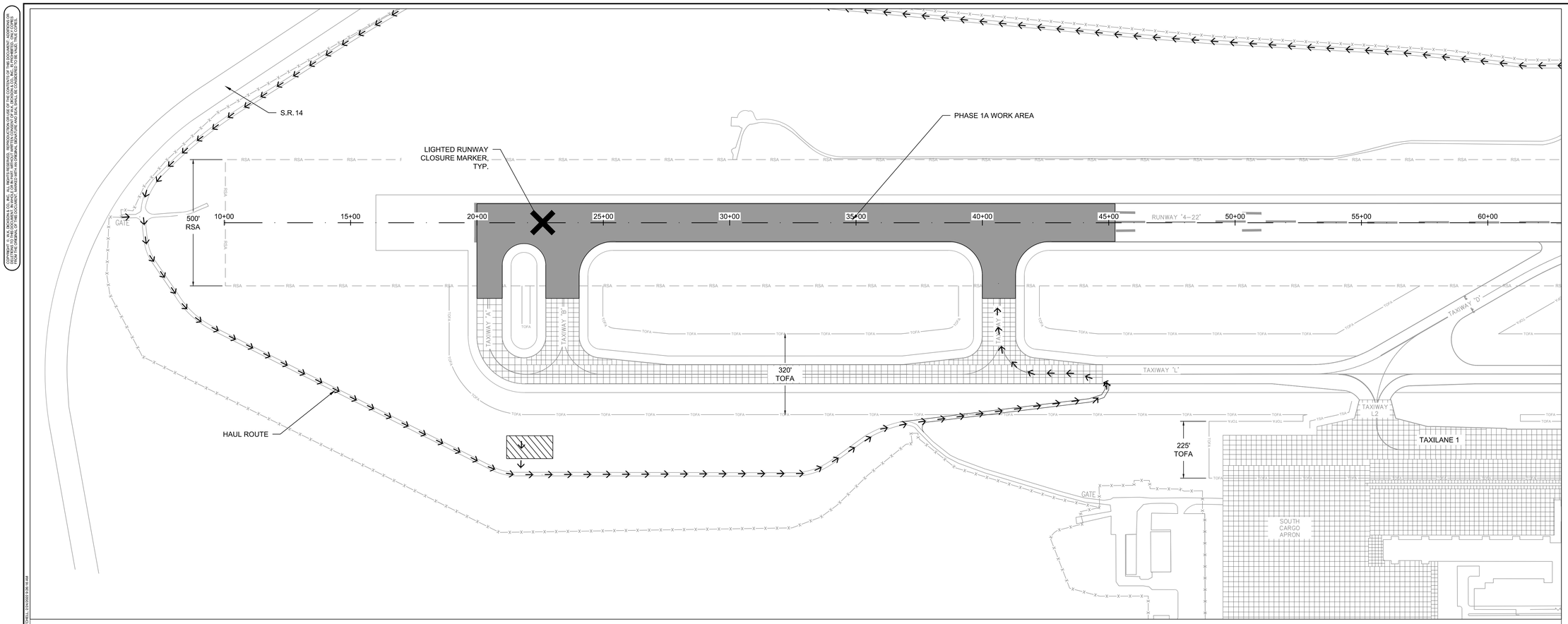

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 1A DESCRIPTION:

1. NIGHTLY ERECTION OF CONTRACTOR SUPPLIED LIGHTED RUNWAY CLOSURE MARKERS.
2. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 23 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 4.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (RUNWAY) - 625 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 48,943 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY PRIOR TO REOPENING
5. DAILY INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING.
6. DURATION OF PHASE 1A CONSTRUCTION - 70 CALENDAR DAYS

PHASE 1A WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK INSIDE RUNWAY 4 RSA AND TO THE RUNWAY HOLDING POSITION MARKINGS ON TAXIWAYS 'A', 'B' AND 'C' FROM STA 20+00 TO STA 45+25.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 1A AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF RUNWAY 4-22 AND A PARTIAL CLOSURE OF TAXIWAYS 'A', 'B' AND 'C'.
2. RUNWAY CLOSURES WILL BE DESIGNATED WITH THE PLACEMENT OF LIGHTED RUNWAY CLOSURE MARKERS ON BOTH RUNWAY 4 AND 22 ENDS.
3. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO TURN OFF AIRFIELD LIGHT AND NAVIGATIONAL AIDS WHILE RUNWAY 4-22 IS CLOSED.

PHASE 1A WORK RESTRICTIONS:

1. THIS PHASE MUST BE COMPLETED DURING NIGHTLY RUNWAY CLOSURES BETWEEN THE HOURS OF 12:30 AM TO 5:30 AM DURING WEEKDAYS ONLY.
2. THE AIRPORT RESERVES THE RIGHT TO MODIFY THE CLOSURE TIMES AS NECESSARY TO ACCOMMODATE AIR TRAFFIC. ANY NIGHT WHERE THE CONTRACTOR IS DELAYED FROM OPERATIONS OF MORE THAN 1.5 HOURS WILL NOT BE COUNTED AGAINST THE CALENDAR DAY COUNT FOR THIS PHASE.

200 0 200 400
SCALE: 1" = 200'

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C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BRAMLETT
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PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 1A

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH102
WKD PROJ. NO.:
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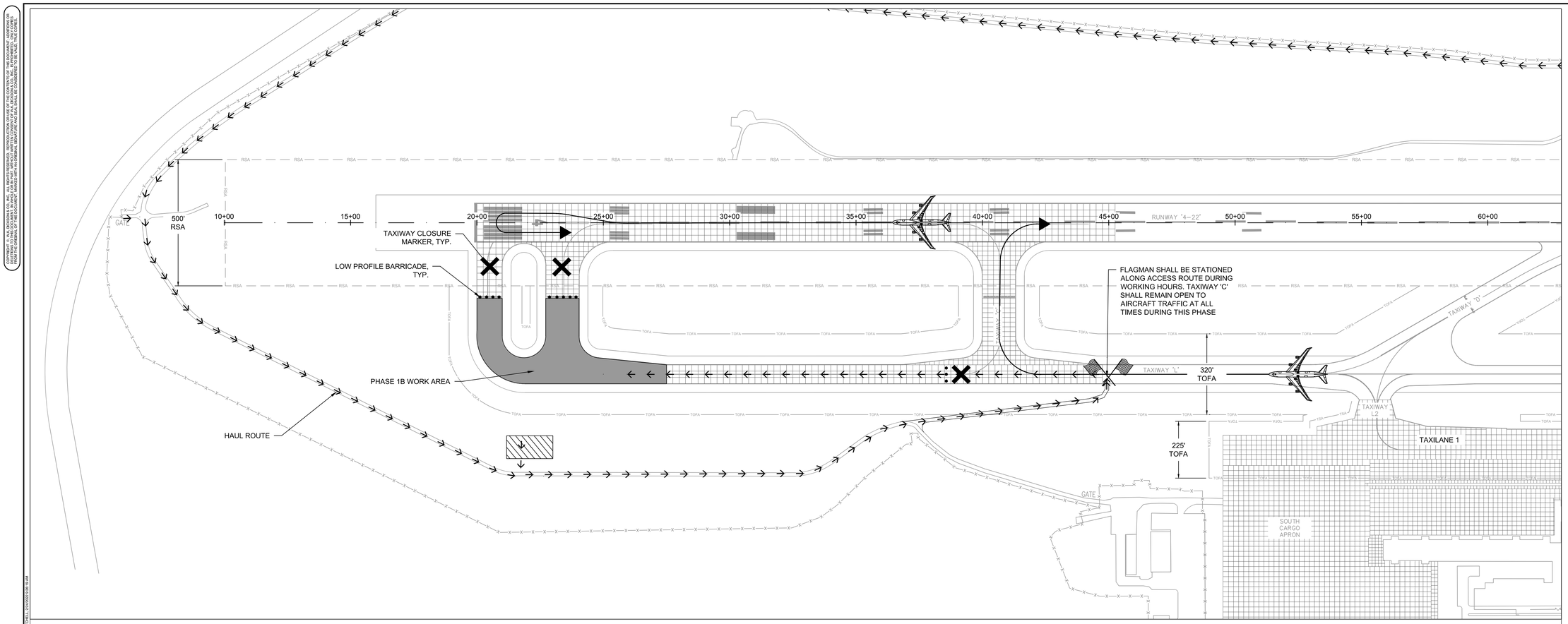

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 1B DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 3 CF
   B. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXIWAY) - 1 SY
   C. JOINT SEALANT REMOVAL AND REPLACEMENT - 13,823 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAYS.
6. DURATION OF PHASE 1B CONSTRUCTION - 12 CALENDAR DAYS.
7. WORK IN PHASE 1B CANNOT BE COMPLETED CONCURRENT WITH PHASE 1C.

PHASE 1B WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE AREAS OUTSIDE OF THE RUNWAY HOLDING POSITION MARKINGS ON TAXIWAYS 'A', 'B' AND 'L' FROM STATION STA 20+00 TO STA 27+50.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 1B AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE TEMPORARY FULL CLOSURES OF TAXIWAYS 'A' AND 'B' AND A TEMPORARY PARTIAL CLOSURE OF TAXIWAY 'L'.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. FLAGMAN SHALL BE STATIONED AT ALL ACTIVE TAXIWAY CROSSINGS.
4. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS, INDICATED A AND B, AND TAXIWAY LIGHTS FOR TAXIWAY A, B, AND THE CLOSED PORTION OF TAXIWAY L, OBLITERATE ALL RUNWAY LEAD-ON/LEAD-OFF LINE PAVEMENT MARKINGS, AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
5. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
6. CONTRACTOR SHALL COORDINATE TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
7. IT IS INTENDED THAT RUNWAY 4-22 REMAINS OPEN AND SUPPORTS INSTRUMENT APPROACH PROCEDURES DURING PHASE 1B.
8. RUNWAY 4 DISTANCE AVAILABLE FOR TAXIWAY C INTERSECTION DEPARTURE IS 8,900'. CONTRACTOR TO COORDINATE TAXIWAY A AND B CLOSURE SCHEDULE WITH AIRPORT OPERATIONS THROUGH THE AIRPORT PROJECT MANAGER TO ENSURE AIRLINES DISPATCH PAPERWORK HAS RUNWAY DISTANCES AVAILABLE FOR INTERSECTION DEPARTURES.
9. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FEE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.

200 0 200 400
SCALE: 1" = 200'

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SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. C00177
CERTIFICATE OF AUTHORIZATION
C.O.A.

SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:44 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 1B

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH103
WKD PROJ. NO.:
20210666.00.CA

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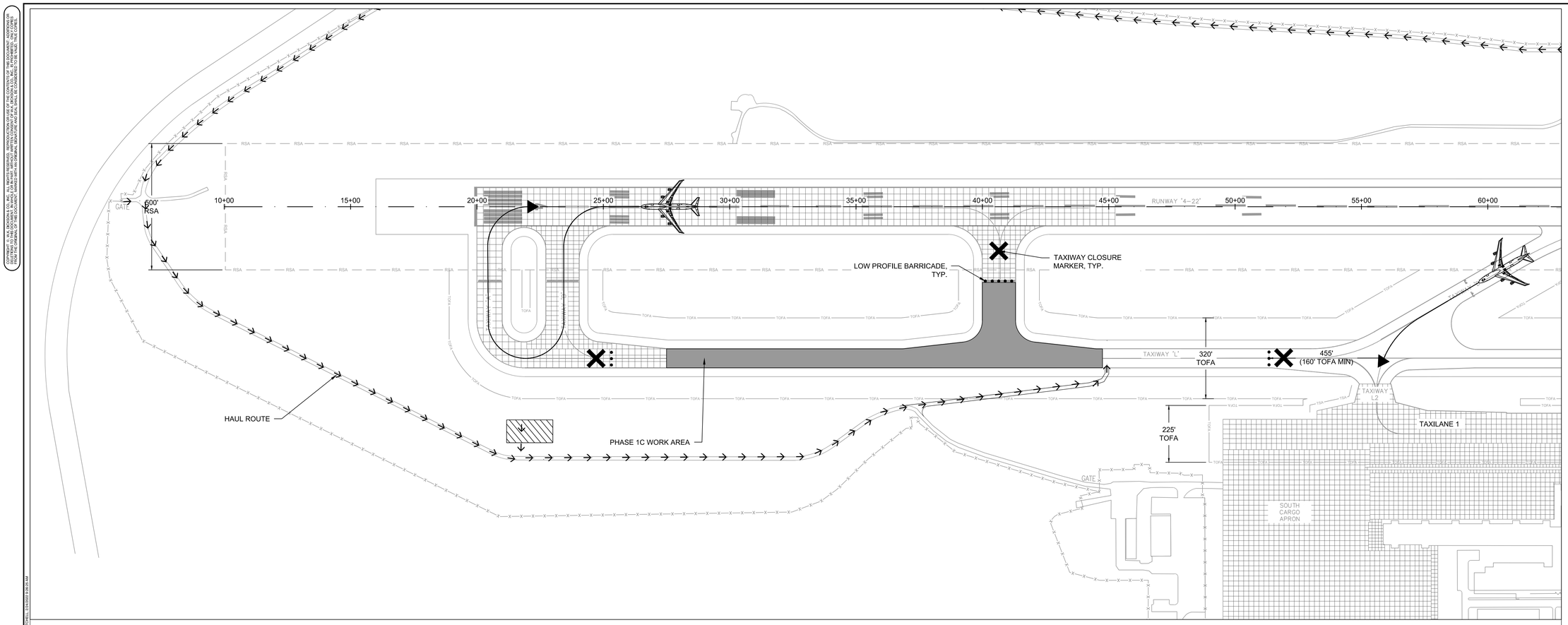

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 1C DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 1 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 5.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXIWAY) - 138 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 20,843 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAYS.
6. DURATION OF PHASE 1C CONSTRUCTION - 19 CALENDAR DAYS.
7. WORK IN PHASE 1C CANNOT BE COMPLETED CONCURRENT WITH PHASE 1B.

PHASE 1C WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE AREAS OUTSIDE OF THE RUNWAY HOLDING POSITION MARKINGS ON TAXIWAYS 'C' AND 'L' FROM STATION STA 27+50 TO STA 44+75
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 1C AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE TEMPORARY FULL CLOSURES OF TAXIWAY 'C' AND A TEMPORARY PARTIAL CLOSURE OF TAXIWAY 'L'.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF INDICATED TAXIWAY C, THE RSA, AND ANY ACTIVE TOFA. FOR TAXIWAY C AND THE CLOSED PORTION OF TAXIWAY L, OBLITERATE ALL RUNWAY LEAD-ON/LEAD-OFF LINE PAVEMENT MARKINGS.
5. CONTRACTOR SHALL COORDINATE TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
6. IT IS INTENDED THAT RUNWAY 4-22 REMAINS OPEN AND SUPPORTS INSTRUMENT APPROACH PROCEDURES DURING PHASE 1C.
7. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.

200 0 200 400
SCALE: 1" = 200'

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

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SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM
Feb 24 2022 12:44 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 1C

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH104
WKD PROJ. NO.:
20210666.00.CA

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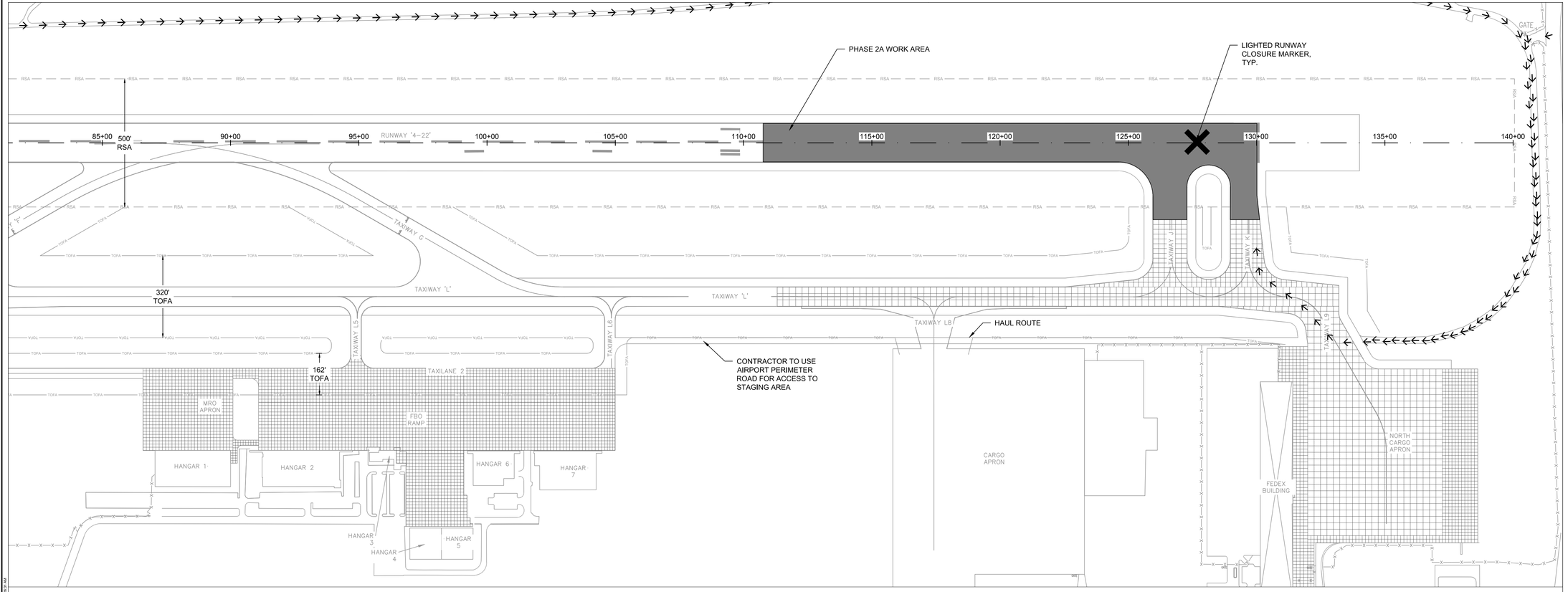

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2A DESCRIPTION:

1. NIGHTLY ERECTION OF CONTRACTOR SUPPLIED LIGHTED RUNWAY CLOSURE MARKERS.
2. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 15 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 28.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (RUNWAY) - 214 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 36,536 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY PRIOR TO REOPENING
5. DAILY INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING.
6. DURATION OF PHASE 2A CONSTRUCTION - 45 CALENDAR DAYS.

PHASE 2A WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK INSIDE RUNWAY 22 RSA AND TO THE RUNWAY HOLDING POSITION MARKINGS ON TAXIWAYS 'J' AND 'K' FROM STA 110+76 TO STA 130+01.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2A AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF RUNWAY 4-22 AND A PARTIAL CLOSURE OF TAXIWAYS 'J' AND 'K'.
2. RUNWAY CLOSURES WILL BE DESIGNATED WITH THE PLACEMENT OF LIGHTED RUNWAY CLOSURE MARKERS ON BOTH RUNWAY 4 AND 22 ENDS.
3. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS TO TURN OFF AIRFIELD LIGHT AND NAVIGATIONAL AIDS WHILE RUNWAY 4-22 IS CLOSED.

PHASE 2A WORK RESTRICTIONS:

1. THIS PHASE MUST BE COMPLETED DURING NIGHTLY RUNWAY CLOSURES BETWEEN THE HOURS OF 12:30 AM TO 5:30 AM DURING WEEKDAYS ONLY.
2. THE AIRPORT RESERVES THE RIGHT TO MODIFY THE CLOSURE TIMES AS NECESSARY TO ACCOMMODATE AIR TRAFFIC. ANY NIGHT WHERE THE CONTRACTOR IS DELAYED FROM OPERATIONS OF MORE THAN 1.5 HOURS WILL NOT BE COUNTED AGAINST THE CALENDAR DAY COUNT FOR THIS PHASE.

200 0 200 400
SCALE: 1" = 200'

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SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BRYMER
Feb 24 2022 12:44 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2A

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH105
WKD PROJ. NO.:
20210666.00.CA

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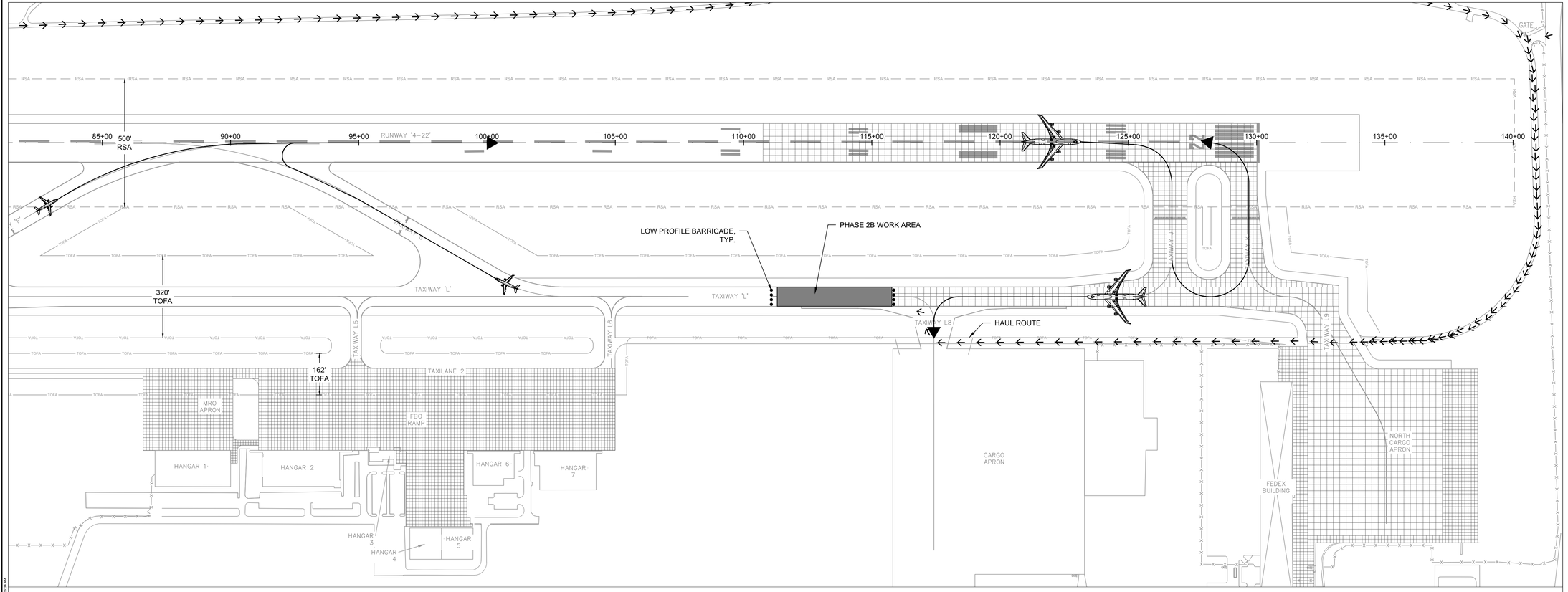

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2B DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 28 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 0.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXIWAY) - 417 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 4,407 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAY.
6. DURATION OF PHASE 2B CONSTRUCTION - 45 CALENDAR DAYS.
7. WORK IN PHASE 2B CANNOT BE COMPLETED CONCURRENT WITH PHASE 2D

PHASE 2B WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON TAXIWAY 'L' FROM STATION STA 111+31 TO STA 115+78.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2B AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF TAXIWAY 'L'.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. FLAGMAN SHALL BE STATIONED AT ALL ACTIVE TAXIWAY CROSSINGS.
4. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS INDICATED TAXIWAY 'L' AND TAXIWAY LIGHTS FOR THE CLOSED PORTION OF TAXIWAY 'L' AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
5. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
6. CONTRACTOR SHALL COORDINATE TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
7. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.
8. AIRCRAFT WILL BE REQUIRED TO UTILIZE RUNWAY 4-22 FROM TAXIWAY 'F' TO TAXIWAY 'J' FOR TAXIWAY OPERATIONS DURING PHASE 2B.

200 0 200 400
SCALE: 1" = 200'

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C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BIRKMEYER
Feb 24 2022 12:44 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2B

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH106
WKD PROJ. NO.:
20210666.00.CA

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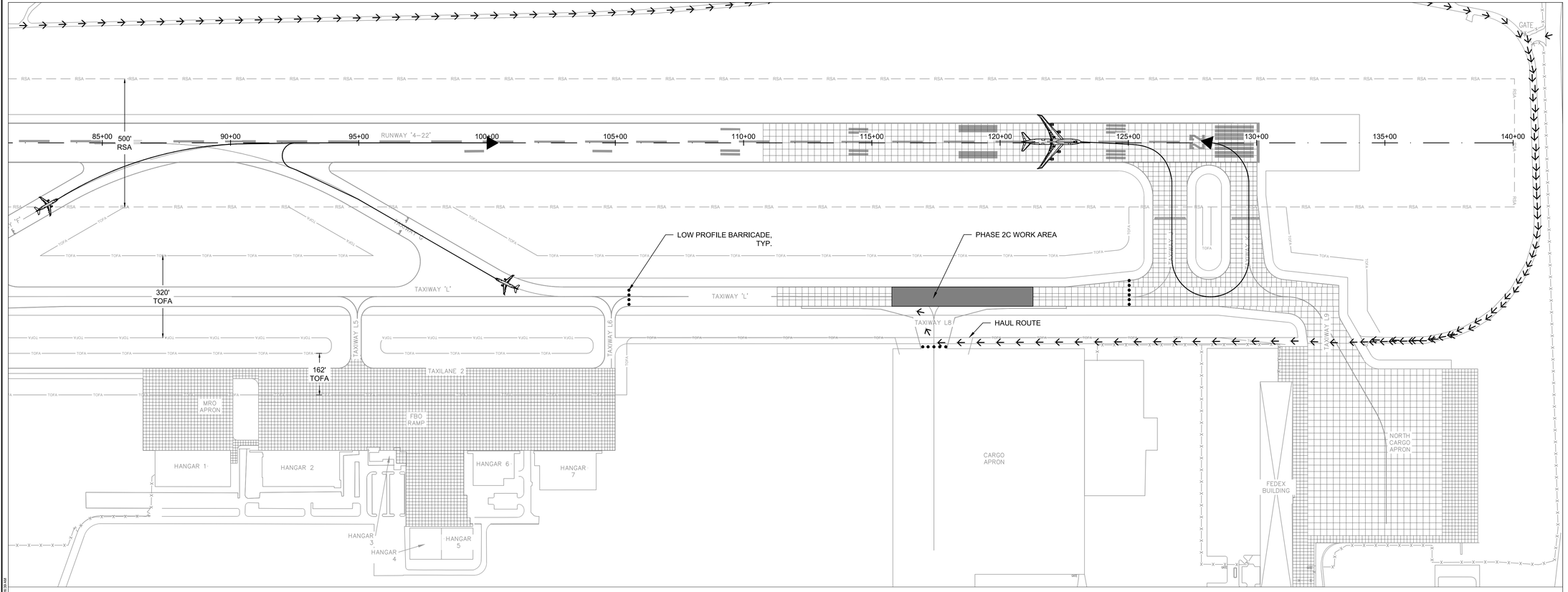

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2C DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 1 CF
   B. JOINT SEALANT REMOVAL AND REPLACEMENT - 5,175 LF
2. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
3. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
4. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAYS.
5. DURATION OF PHASE 2C CONSTRUCTION - 4 CALENDAR DAYS.

PHASE 2C WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON TAXIWAY 'L' FROM STATION STA 115+78 TO STA 121+28.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2C AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'L8' AND A TEMPORARY PARTIAL CLOSURE OF TAXIWAY 'L'.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. FLAGMAN SHALL BE STATIONED AT ALL ACTIVE TAXIWAY CROSSINGS.
4. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS INDICATED TAXIWAY 'L' AND TAXIWAY LIGHTS FOR THE CLOSED PORTION OF TAXIWAY L AND AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
5. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
6. CONTRACTOR SHALL COORDINATE TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
7. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.
8. AIRCRAFT WILL BE REQUIRED TO UTILIZE RUNWAY 4-22 FROM TAXIWAY 'F' TO TAXIWAY 'J' FOR TAXI OPERATIONS DURING PHASE 2B.
9. WORK IN PHASE 2C TO BE COMPLETED DURING NIGHTLY CLOSURES FROM 12:30AM TO 5:30AM.

200 0 200 400
SCALE: 1" = 200'

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

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No. 31405
CHRISTOPHER J. BIRKENFELD
Feb 24 2022 12:45 PM
PROFESSIONAL SEAL

REVISION RECORD

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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2C

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH107
WKD PROJ. NO.:
20210666.00.CA

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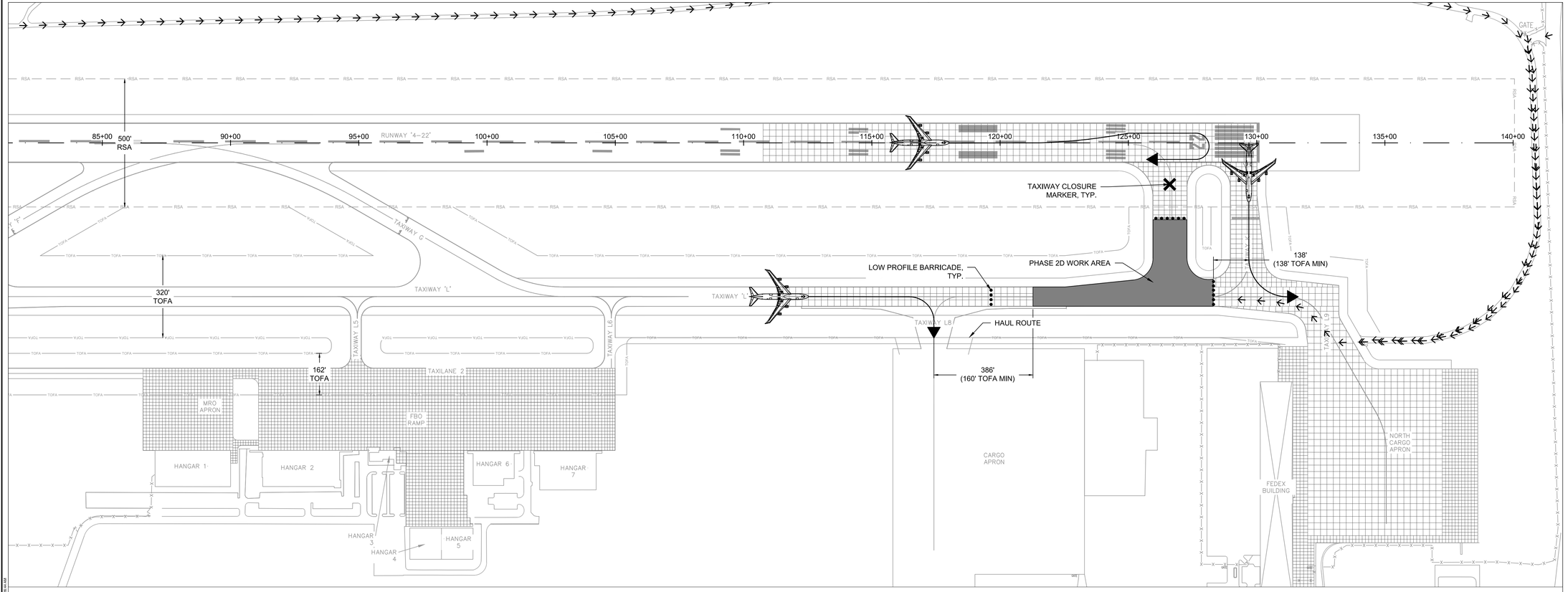

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2D DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 4 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 6.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXIWAY) - 1 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 11,565 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAYS.
6. DURATION OF PHASE 2D CONSTRUCTION - 10 CALENDAR DAYS.

PHASE 2D WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE AREAS OUTSIDE OF THE RUNWAY HOLDING POSITION MARKINGS ON TAXIWAYS 'J' AND 'L' FROM STATION STA 121+28 TO STA 128+30.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2D AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'J' AND A TEMPORARY PARTIAL CLOSURE OF TAXIWAY 'L'.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. FLAGMAN SHALL BE STATIONED AT ALL ACTIVE TAXIWAY CROSSINGS.
4. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS INDICATED TAXIWAY 'L' AND TAXIWAY 'J' AND TAXIWAY LIGHTS FOR TAXIWAY 'J' AND THE CLOSED PORTION OF TAXIWAY 'L', OBLITERATE ALL RUNWAY LEAD-ON/LEAD-OFF LINE PAVEMENT MARKINGS, AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
5. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
6. CONTRACTOR SHALL COORDINATE TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
7. IT IS INTENDED THAT RUNWAY 4-22 REMAINS OPEN AND SUPPORTS INSTRUMENT APPROACH PROCEDURES DURING PHASE 2D.
8. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.

200 0 200 400
SCALE: 1" = 200'

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

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FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2D

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH108
WKD PROJ. NO.:
20210666.00.CA

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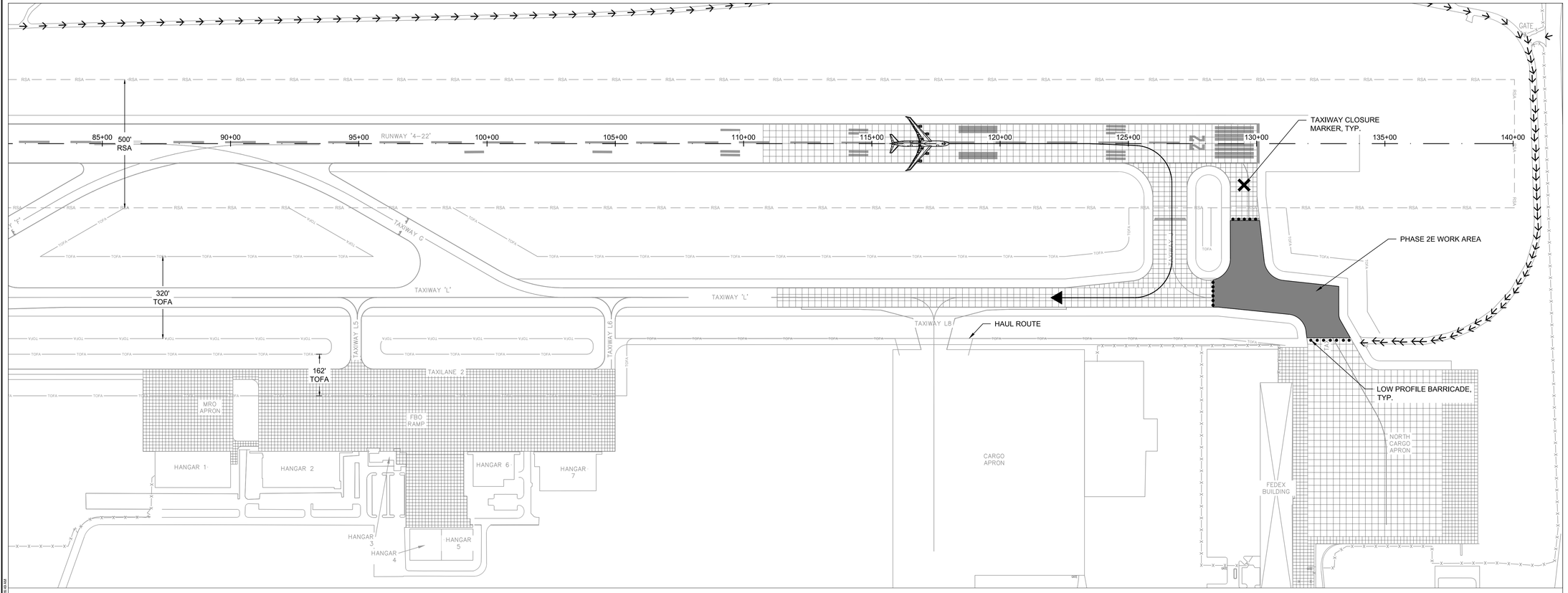

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2E DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 18.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 154 CF
   C. JOINT SEALANT REMOVAL AND REPLACEMENT - 11,483 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAYS.
6. DURATION OF PHASE 2E CONSTRUCTION - 8 CALENDAR DAYS.
7. WORK IN PHASE 2E CANNOT BE COMPLETED CONCURRENT WITH PHASE 2D.

PHASE 2E WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE AREAS OUTSIDE OF THE RUNWAY HOLDING POSITION MARKINGS ON TAXIWAYS 'K' AND 'L' FROM STATION STA 128+30 TO STA 133+65.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2E AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'K' AND A TEMPORARY PARTIAL CLOSURE OF TAXIWAY 'L'.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS INDICATED TAXIWAY 'L' AND TAXIWAY 'L' AND TAXIWAY 'K' AND TAXIWAY LIGHTS FOR TAXIWAY 'K' AND THE CLOSED PORTION OF TAXIWAY 'L' AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
5. CONTRACTOR SHALL COORDINATE TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
6. IT IS INTENDED THAT RUNWAY 4-22 REMAINS OPEN AND SUPPORTS INSTRUMENT APPROACH PROCEDURES DURING PHASE 2E.
7. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.
8. PHASE 2E WORK TO BE COMPLETE WITHIN 10 HOUR CLOSURE WINDOW DEFINED BY THE AIRPORT. TAXIWAY TO BE INSPECTED AND REOPENED AT THE END OF EACH 10 HOUR CLOSURE PERIOD.

200 0 200 400
SCALE: 1" = 200'

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION W. K. DICKSON & COMPANY, INC. No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:45 PM
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2E

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH109
WKD PROJ. NO.:
20210666.00.CA

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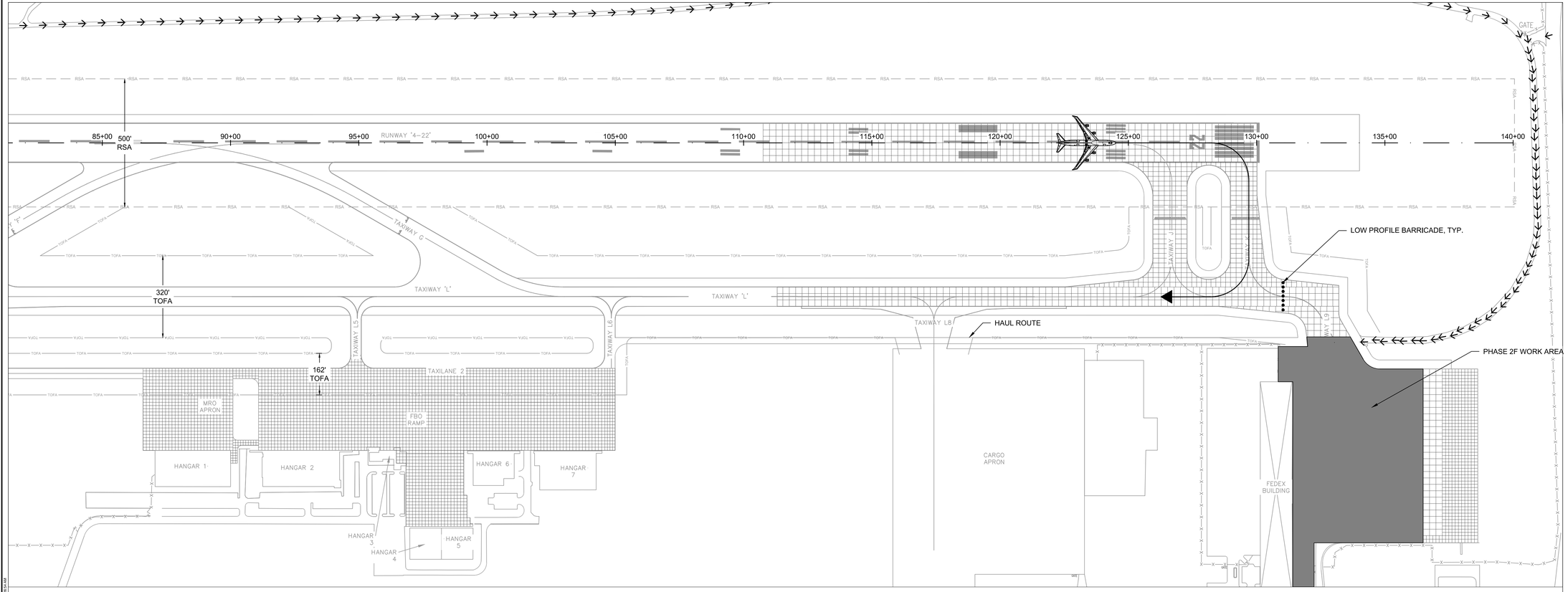

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2F DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 131 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 58 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (CARGO AREA) - 208 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 41,742 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAY AND APRON.
6. DURATION OF PHASE 2F CONSTRUCTION - 25 CALENDAR DAYS.

PHASE 2F WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON THE NORTH CARGO APRON FROM STA 130+84 TO STA 136+49.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2F AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'L9' AND THE NORTH CARGO APRON.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS INDICATED TAXIWAY 'L9' AND TAXIWAY LIGHTS FOR TAXIWAY 'L9' AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
5. CONTRACTOR SHALL COORDINATE TAXIWAY AND RAMP CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FEDEX HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
6. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.
7. PHASE 2F WORK TO BE COMPLETE WITHIN 10 HOUR CLOSURE WINDOW DEFINED BY THE AIRPORT. TAXIWAY TO BE INSPECTED AND REOPENED AT THE END OF EACH 10 HOUR CLOSURE PERIOD.

200 0 200 400
SCALE: 1" = 200'

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SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKHOLZER
Feb 24 2022 12:45 PM
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2F

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH110

WKD PROJ. NO.:
20210666.00.CA

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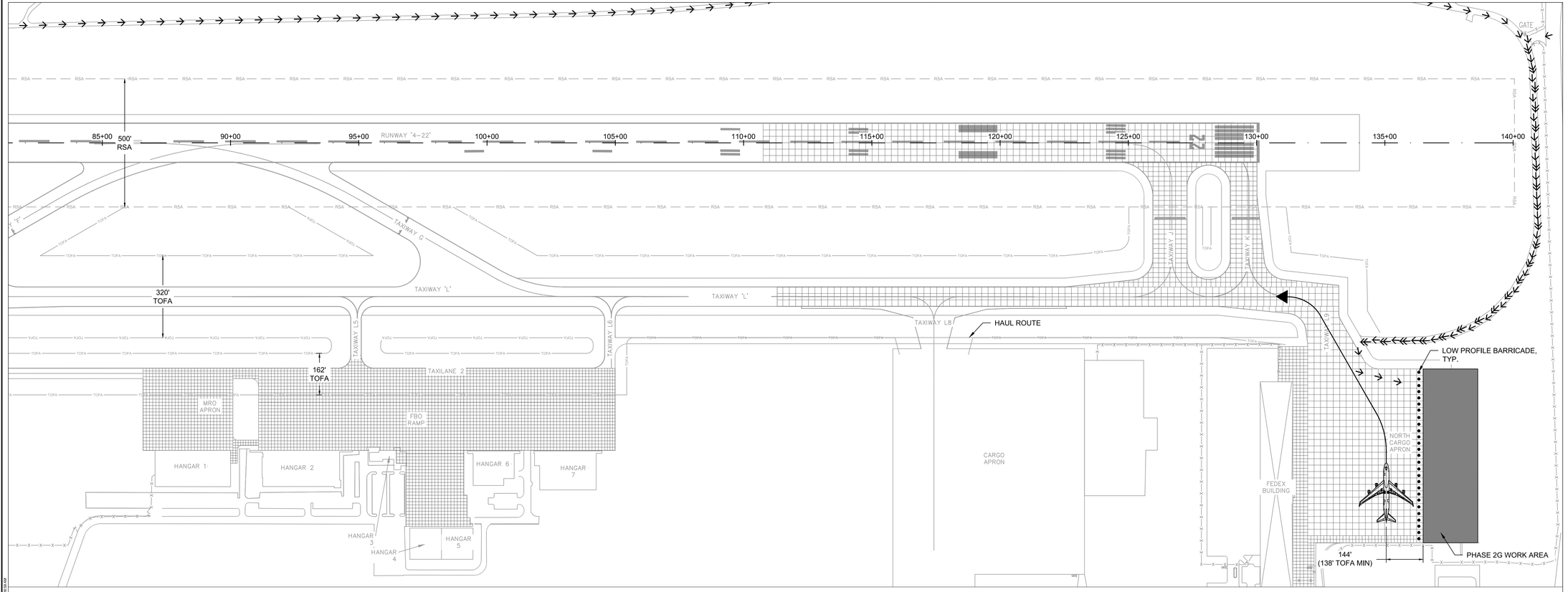

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 2G DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 8.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 109 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (CARGO AREA) - 0.5 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 21,801 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 2G CONSTRUCTION - 15 CALENDAR DAYS.

PHASE 2G WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON THE NORTH CARGO APRON FROM STA 136+49 TO STA 138+62.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 2G AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF THE NORTH CARGO APRON.
2. TAXIWAY CLOSURES WILL BE DESIGNATED WITH A TEMPORARY TAXIWAY CLOSURE MARKER, SEE SHEET PH100.
3. CONTRACTOR SHALL INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
5. CONTRACTOR SHALL COORDINATE RAMP CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND TENANTS HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.
6. NO CONSTRUCTION EQUIPMENT OF VEHICLE ABOVE 10' IN HEIGHT ARE ALLOWED TO OPERATE WITHIN THE PRECISION OBSTACLE FREE ZONE (POFZ) WHEN THE SURFACE IS IN EFFECT.

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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 2G

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH111

WKD PROJ. NO.:
20210666.00.CA

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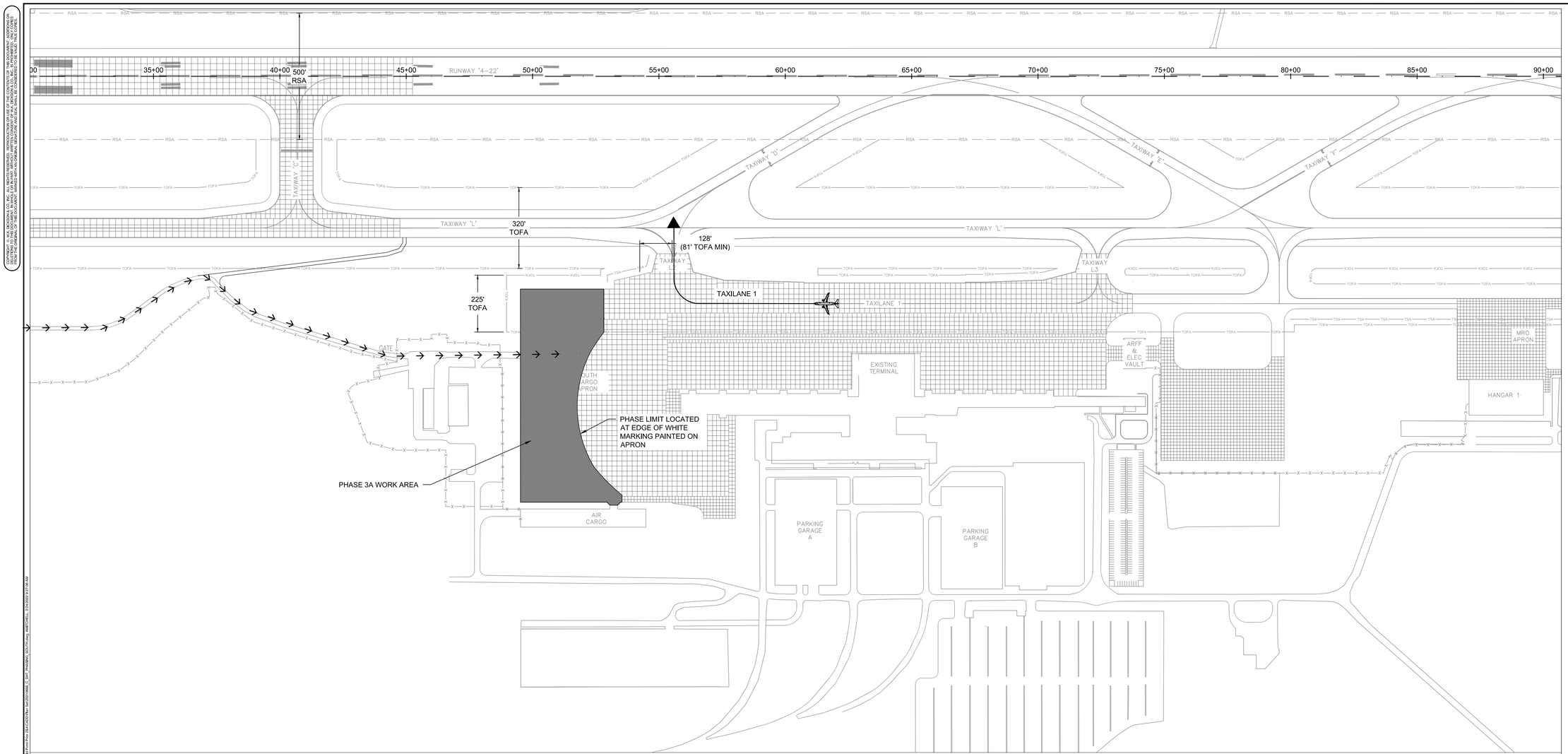

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN

PHASE 3A DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 13 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 29 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (CARGO AREA) - 0.5 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 43,768 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 3A CONSTRUCTION - 34 CALENDAR DAYS

PHASE 3A WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON THE SOUTH CARGO APRON FROM STA 49+52 TO STA 54+24.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. CONTRACTOR TO PROVIDE A WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. WORK IN PHASE 3A CANNOT BE CONCURRENT WITH PHASE 3D.

PHASE 3A AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PHASED CLOSURE OF THE SOUTH CARGO APRON.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE RAMP AND GATE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
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No. 31405
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REVISION RECORD

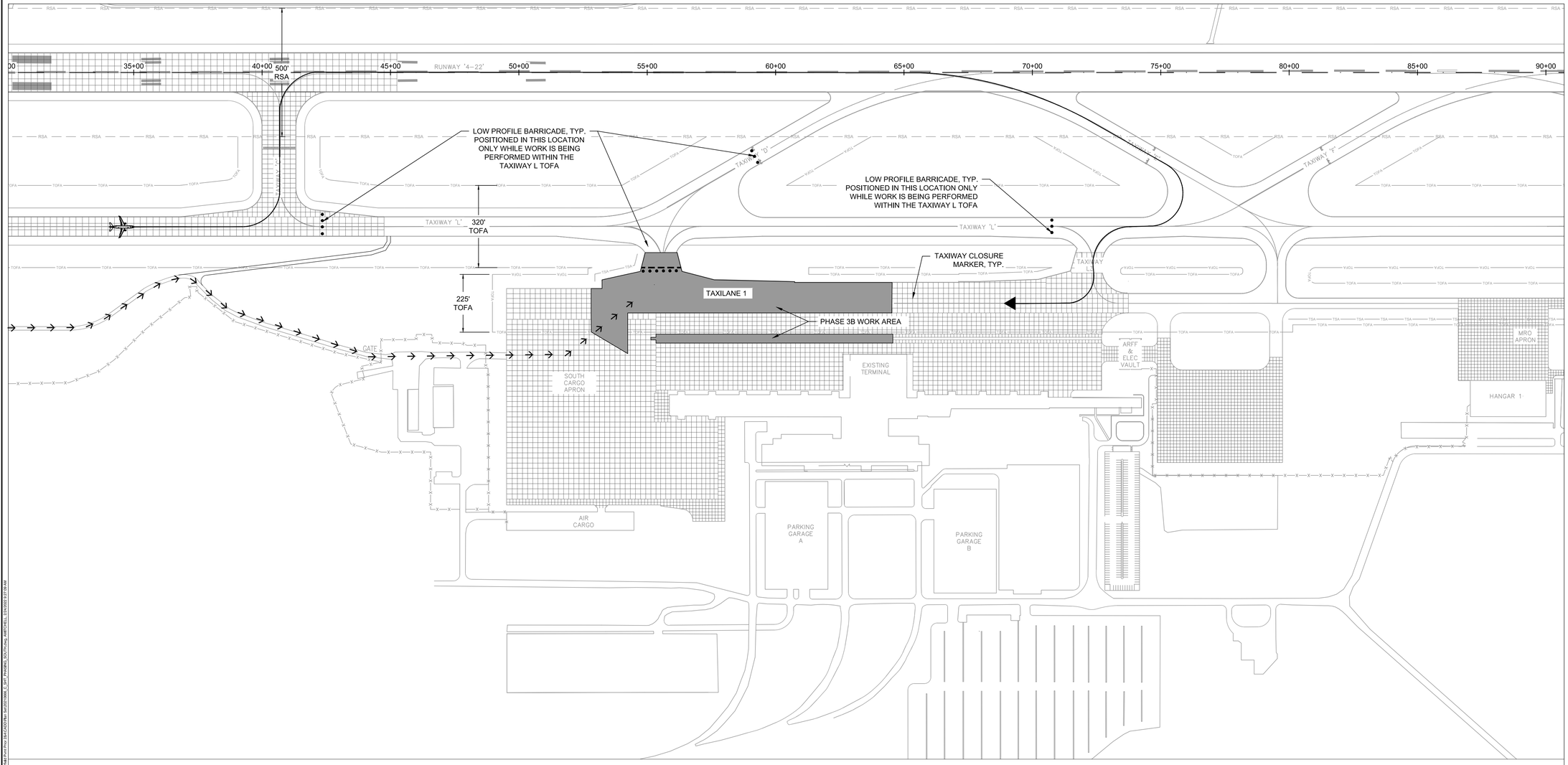
NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 3A

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH112
WKD PROJ. NO.:
20210666.00.CA



PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN

PHASE 3B DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 20.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXILANE 1) - 0.5 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 27,100 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAY AND TAXILANE.
6. ESTIMATED DURATION OF PHASE 3B CONSTRUCTION - 20 DAYS

PHASE 3B WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON TAXIWAY 'L2' AND TAXILANE 1 FROM STA 54+24 TO STA 64+54.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. WORK IN PHASE 3B CANNOT BE COMPLETED CONCURRENT WITH PHASE 3C OR 3D.

PHASE 3B AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'L2' AND A TEMPORARY PARTIAL CLOSURE OF TAXILANE 1.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
5. CONTRACTOR SHALL COORDINATE RAMP AND GATE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

PHASE 3B WORK RESTRICTIONS:

1. WORK INSIDE THE ACTIVE TAXIWAY 'L' TOFA MUST BE COMPLETED DURING NIGHTLY RUNWAY CLOSURES BETWEEN THE HOURS OF 12:30 AM TO 5:30 AM DURING WEEKDAYS ONLY.
2. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO ONLY CLOSE ONE AIRCRAFT GATE AT A TIME. CONTRACTOR TO PROVIDE A WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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No. 31405
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PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 3B

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH113
WKD PROJ. NO.:
20210666.00.CA

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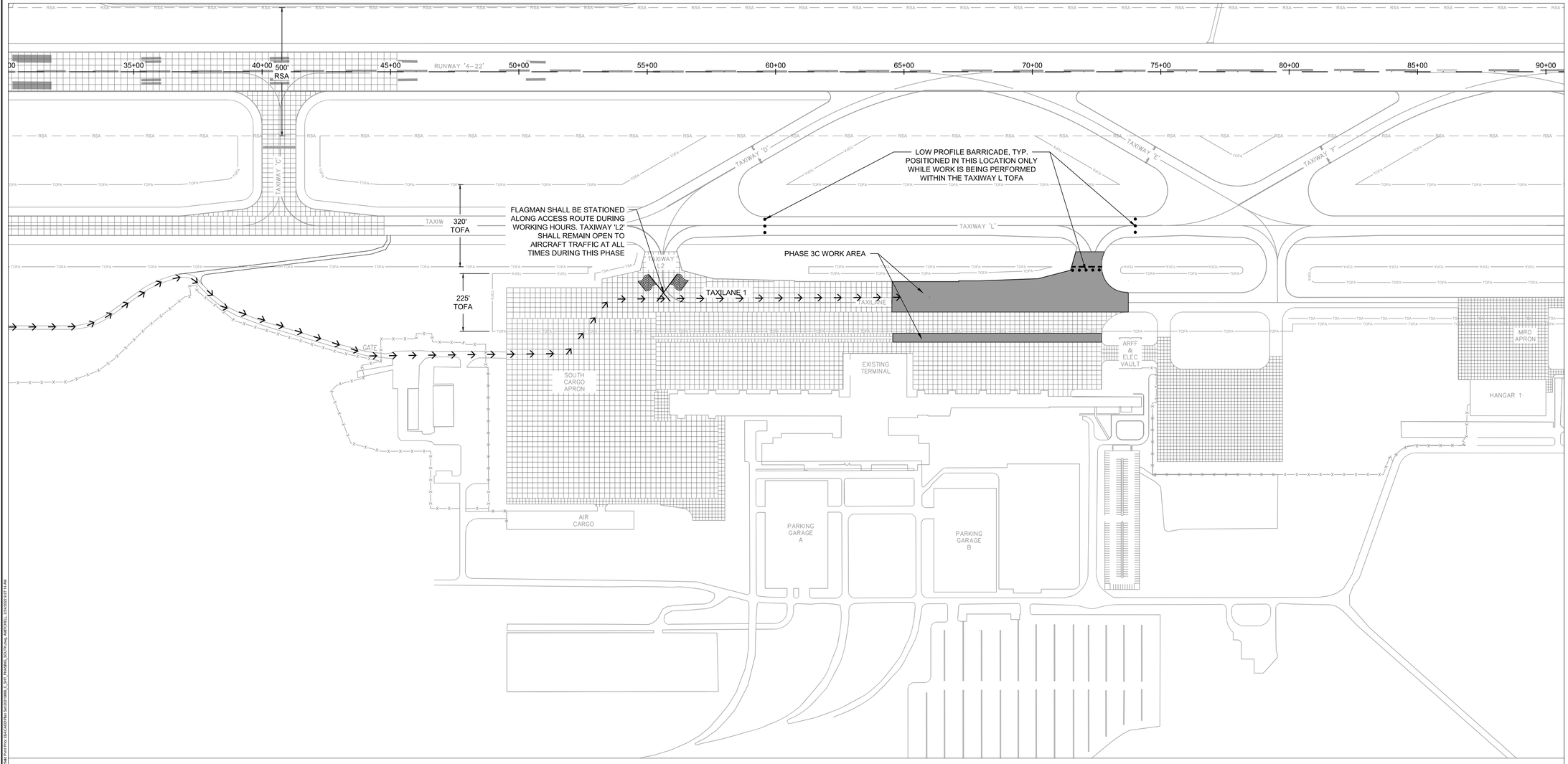

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN

PHASE 3C DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 9 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 24.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXILANE 1) - 42 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 22,516 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXIWAY AND TAXILANE.
6. DURATION OF PHASE 3C CONSTRUCTION - 20 CALENDAR DAYS.

PHASE 3C WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON TAXIWAY 'L3' AND TAXILANE 1 FROM STA 64+54 TO STA 73+74..
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. WORK IN PHASE 3C CANNOT BE COMPLETED CONCURRENT WITH PHASE 3B.

PHASE 3C AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'L3' AND A TEMPORARY PARTIAL CLOSURE OF TAXILANE 1.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
5. CONTRACTOR SHALL COORDINATE RAMP AND GATE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

PHASE 3C WORK RESTRICTIONS:

1. WORK INSIDE THE ACTIVE TAXIWAY 'L' TOFA MUST BE COMPLETED DURING NIGHTLY RUNWAY CLOSURES BETWEEN THE HOURS OF 12:30 AM TO 5:30 AM DURING WEEKDAYS ONLY.
2. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO ONLY CLOSE ONE AIRCRAFT GATE AT A TIME. CONTRACTOR TO PROVIDE A WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:46 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 3C

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH114
WKD PROJ. NO.:
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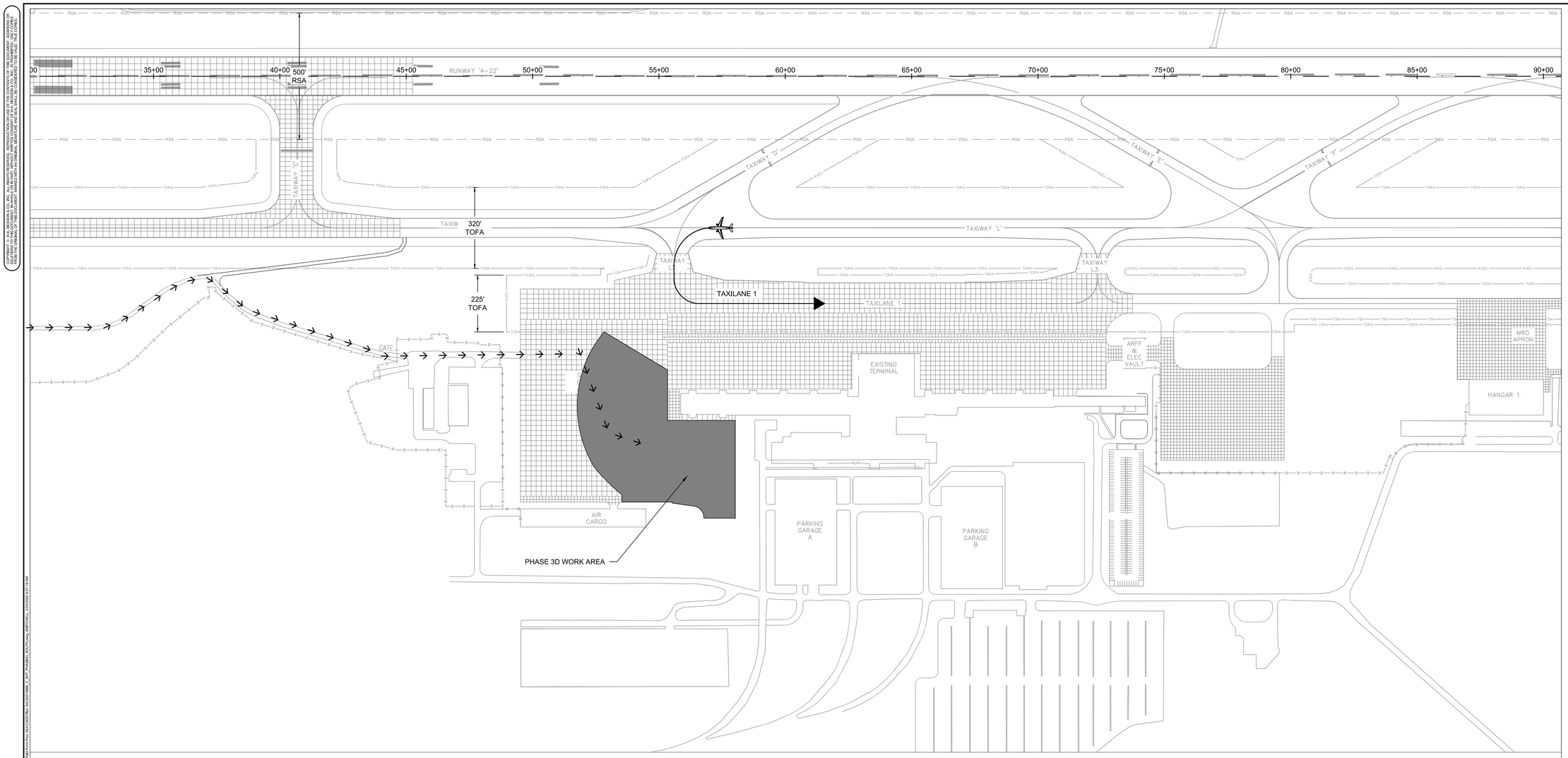

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN

PHASE 3D DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 7.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (CARGO AREA) - 70 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 16,602 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 3D CONSTRUCTION - 20 CALENDAR DAYS.

PHASE 3D WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK ON THE SOUTH CARGO APRON FROM STA 54+34 TO STA 58+02.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. WORK IN PHASE 3D CANNOT BE COMPLETED CONCURRENT WITH PHASE 3A, 3B, OR 3C.

PHASE 3D AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF THE SOUTH CARGO APRON.
2. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE RAMP AND GATE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

PHASE 3D WORK RESTRICTIONS:

1. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO ONLY CLOSE ONE AIRCRAFT GATE AT A TIME. CONTRACTOR TO PROVIDE A WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

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Feb 24 2022 12:46 PM
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REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 3D

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH115
WKD PROJ. NO.:
20210666.00.CA

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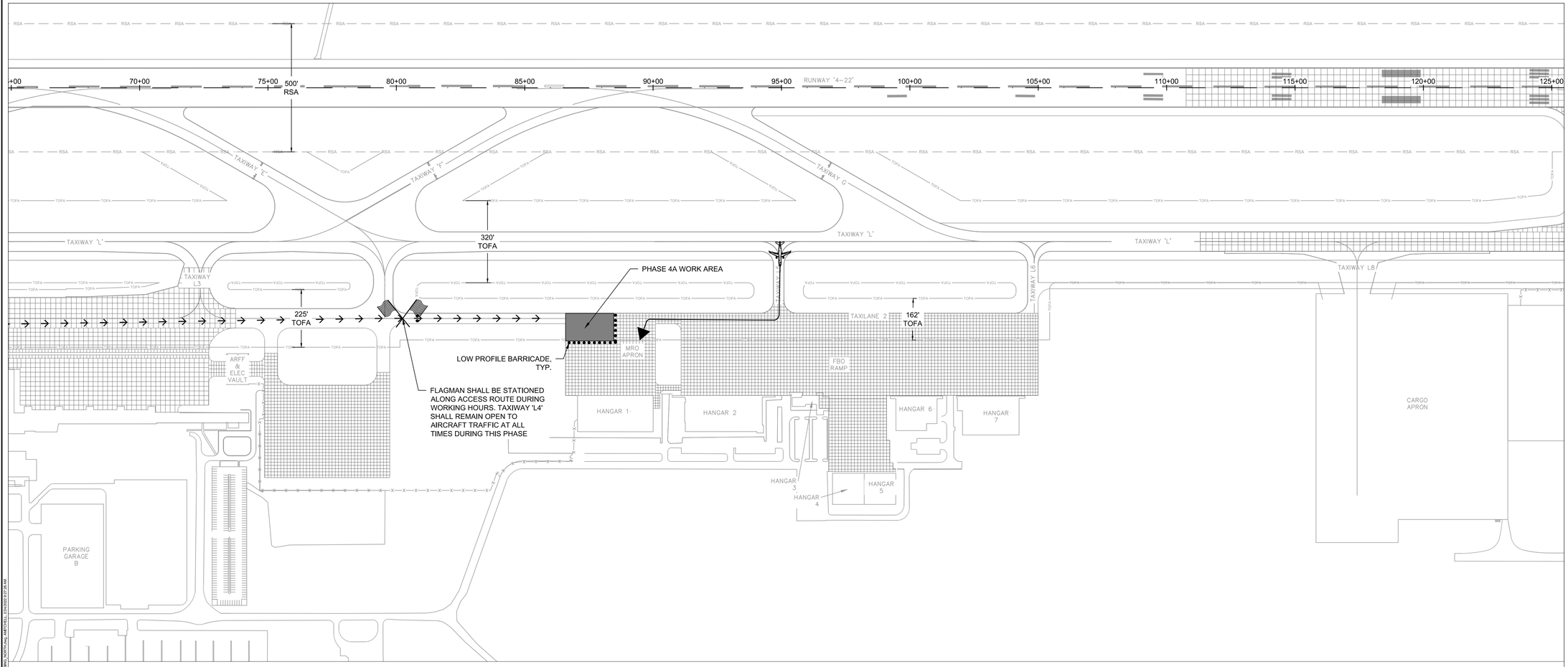

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4A DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 18 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 2 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXILANE 2) - 1 SY
   D. FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT - 469 SY
   E. JOINT SEALANT REMOVAL AND REPLACEMENT - 4,185 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXILANE.
6. DURATION OF PHASE 4A CONSTRUCTION - 45 CALENDAR DAYS.

PHASE 4A WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK INSIDE THE TAXILANE 2 OBJECT FREE AREA FROM STA 86+59 TO STA 88+47.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. WORK IN PHASE 4A CANNOT BE COMPLETED CONCURRENT WITH PHASE 4B.

PHASE 4A AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF TAXILANE 2.
2. ACCESS TO THE MRO APRON SHALL REMAIN OPEN TO AIRCRAFT TRAFFIC AT ALL TIMES FROM THE NORTH.
3. FLAGMAN SHALL BE STATIONED AT ALL ACTIVE TAXIWAY CROSSINGS.
4. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
5. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
6. CONTRACTOR SHALL COORDINATE TAXILANE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
SCALE: 1" = 200'

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No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM
Feb 24 2022 12:46 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4A

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH116
WKD PROJ. NO.:
20210666.00.CA

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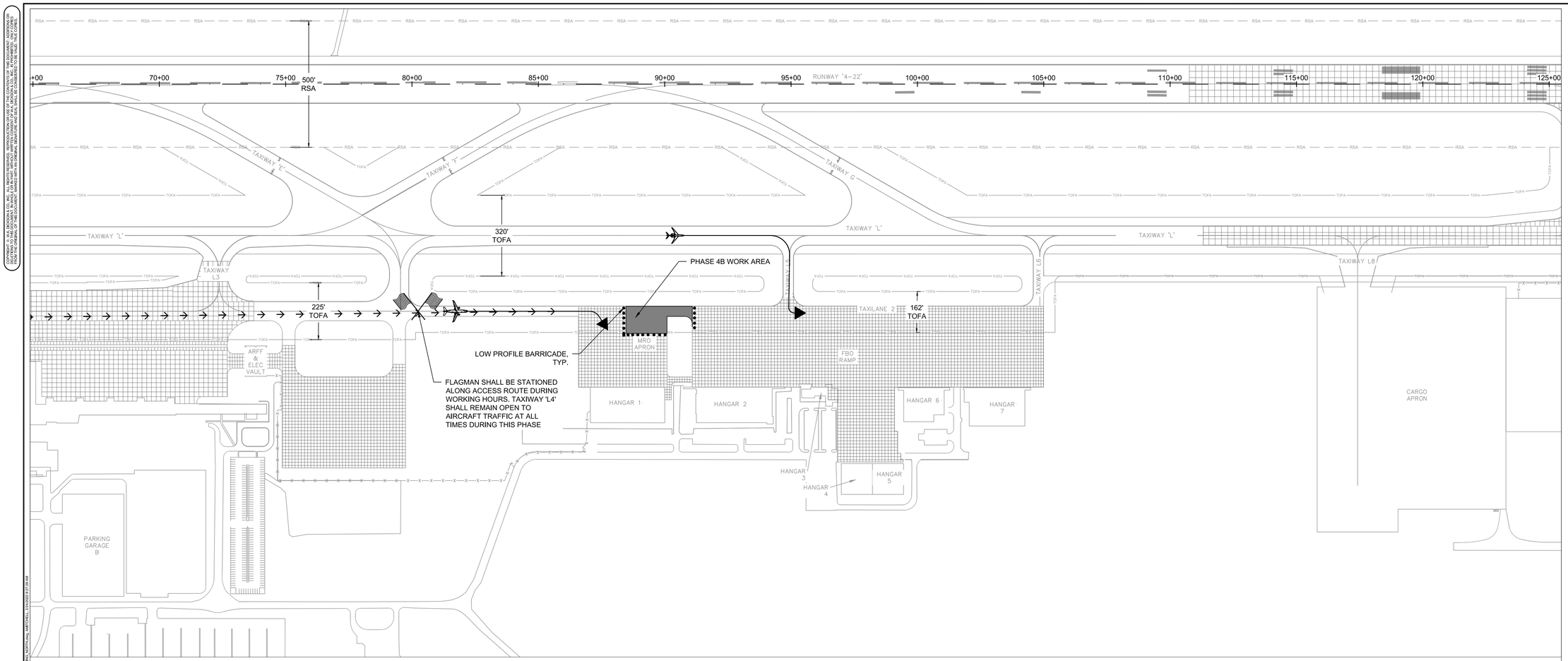

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4B DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 1 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 3 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXILANE 2) - 5.5 SY
   D. FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT - 490 SY
   E. JOINT SEALANT REMOVAL AND REPLACEMENT - 4,831 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXILANE.
6. DURATION OF PHASE 4B CONSTRUCTION - 45 CALENDAR DAYS.

PHASE 4B WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK INSIDE THE TAXILANE 2 OBJECT FREE AREA FROM STA 88+47 TO STA 91+09.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. WORK IN PHASE 4B CANNOT BE COMPLETED CONCURRENT WITH PHASE 4A.

PHASE 4B AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF TAXILANE 2.
2. ACCESS TO THE MRO APRON SHALL REMAIN OPEN TO AIRCRAFT TRAFFIC AT ALL TIMES FROM THE SOUTH.
3. FLAGMAN SHALL BE STATIONED AT ALL ACTIVE TAXIWAY CROSSINGS.
4. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
5. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
6. CONTRACTOR SHALL COORDINATE TAXILANE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

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SCALE: 1" = 200'

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C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BIRMINGHAM
Feb 24 2022 12:46 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4B

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH117
WKD PROJ. NO.:
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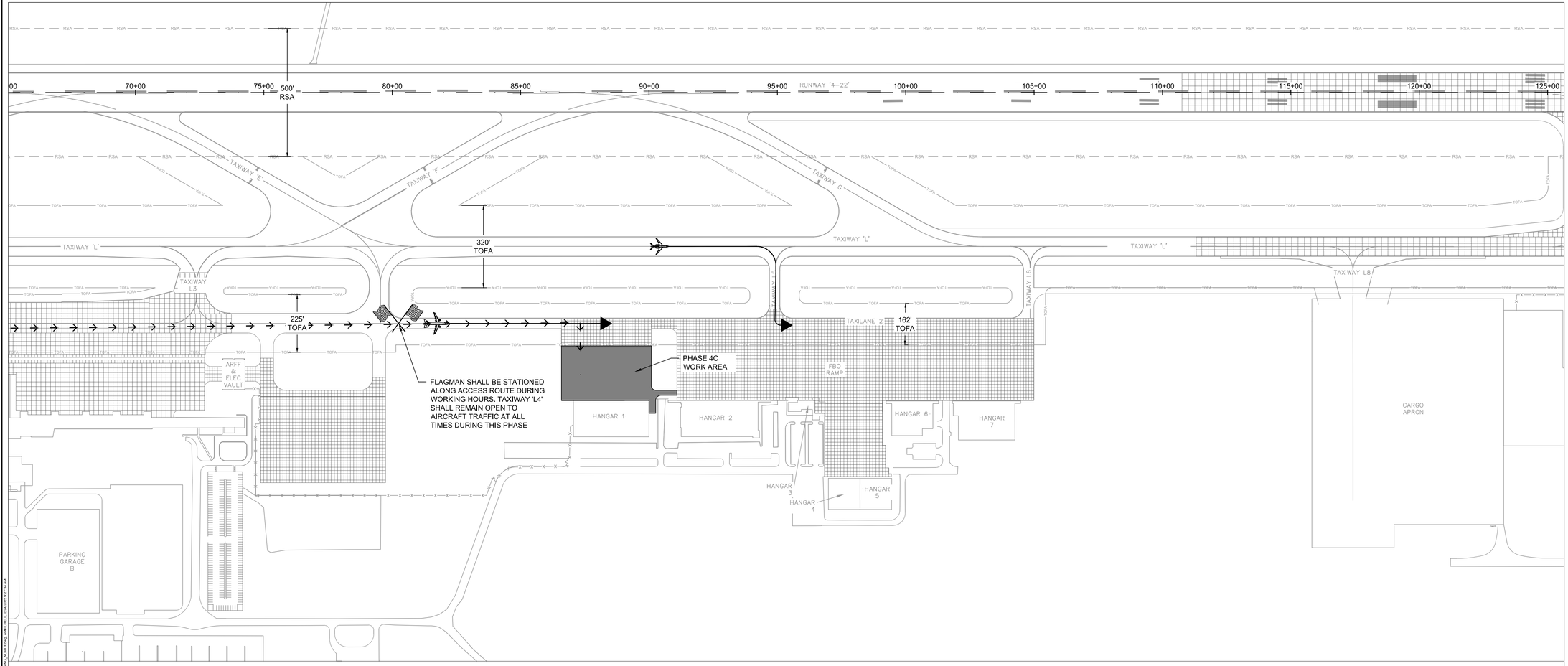

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4C DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 48.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 4 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (MRO APRON) - 13 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 14,644 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 4C CONSTRUCTION - 13 CALENDAR DAYS.

PHASE 4C WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK OUTSIDE THE TAXILANE 2 OBJECT FREE AREA FROM STA 86+59 TO STA 91+09.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. AIRCRAFT ACCESS TO HANGAR 1 MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR TO PROVIDE WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

PHASE 4C AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PHASED CLOSURE OF THE MRO APRON.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
4. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
5. CONTRACTOR SHALL COORDINATE RAMP CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND AIRLINES HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

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No. 31405
CHRISTOPHER J. BIRMINGHAM
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PROFESSIONAL SEAL

REVISION RECORD

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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4C

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH118
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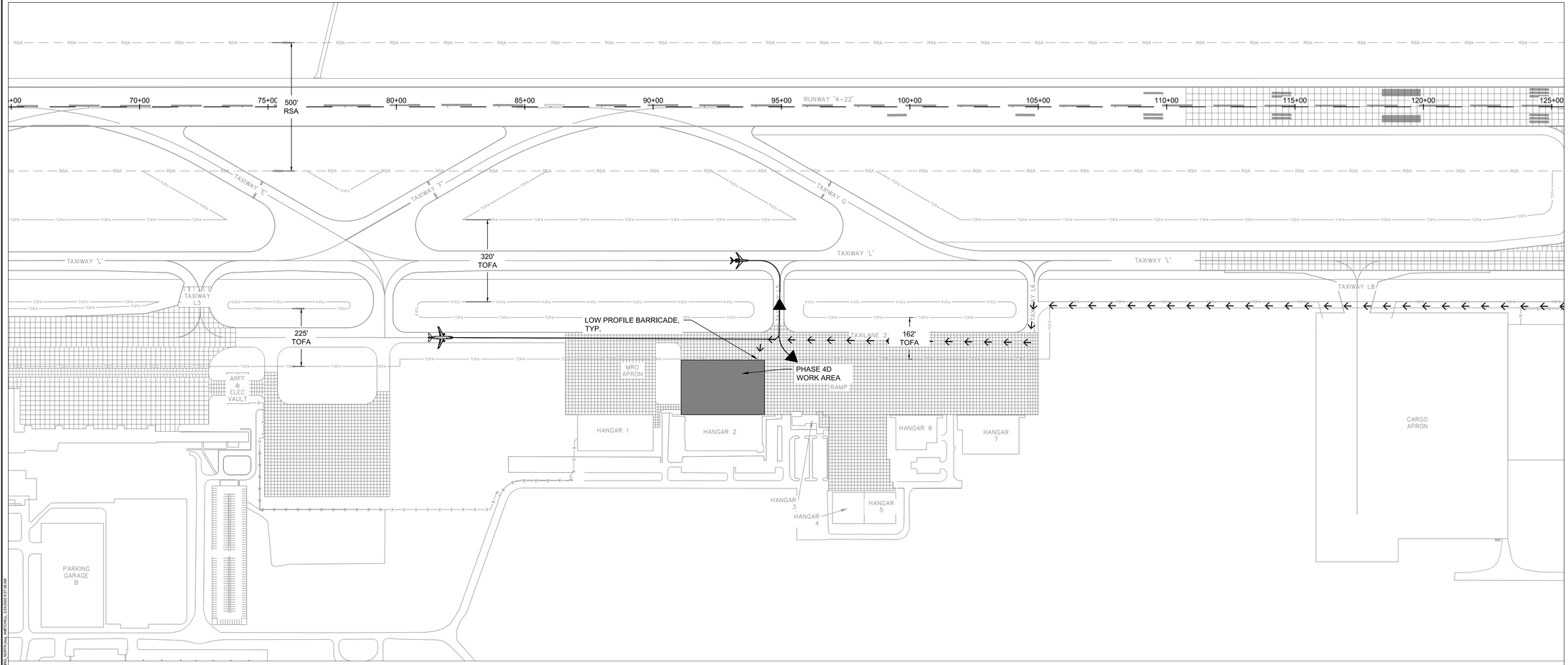

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4D DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 46 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 66.5 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (FBO RAMP) - 41.5 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 12,795 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 4D CONSTRUCTION - 10 CALENDAR DAYS.

PHASE 4D WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK OUTSIDE THE TAXILANE 2 OBJECT FREE AREA FROM STA 91+09 TO STA 94+34.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. AIRCRAFT ACCESS TO HANGAR 2 MUST BE MAINTAINED AT ALL TIMES, CONTRACTOR TO PROVIDE WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. WORK IN PHASE 4D CANNOT BE COMPLETED CONCURRENT WITH PHASE 4F, 4G, 4H, OR 4J

PHASE 4D AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL PHASED CLOSURE OF THE FBO APRON.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE RAMP CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

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No. 31405
CHRISTOPHER J. BIRKMEYER
Feb 24 2022 12:46 PM
PROFESSIONAL SEAL

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FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4D

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH119

WKD PROJ. NO.:
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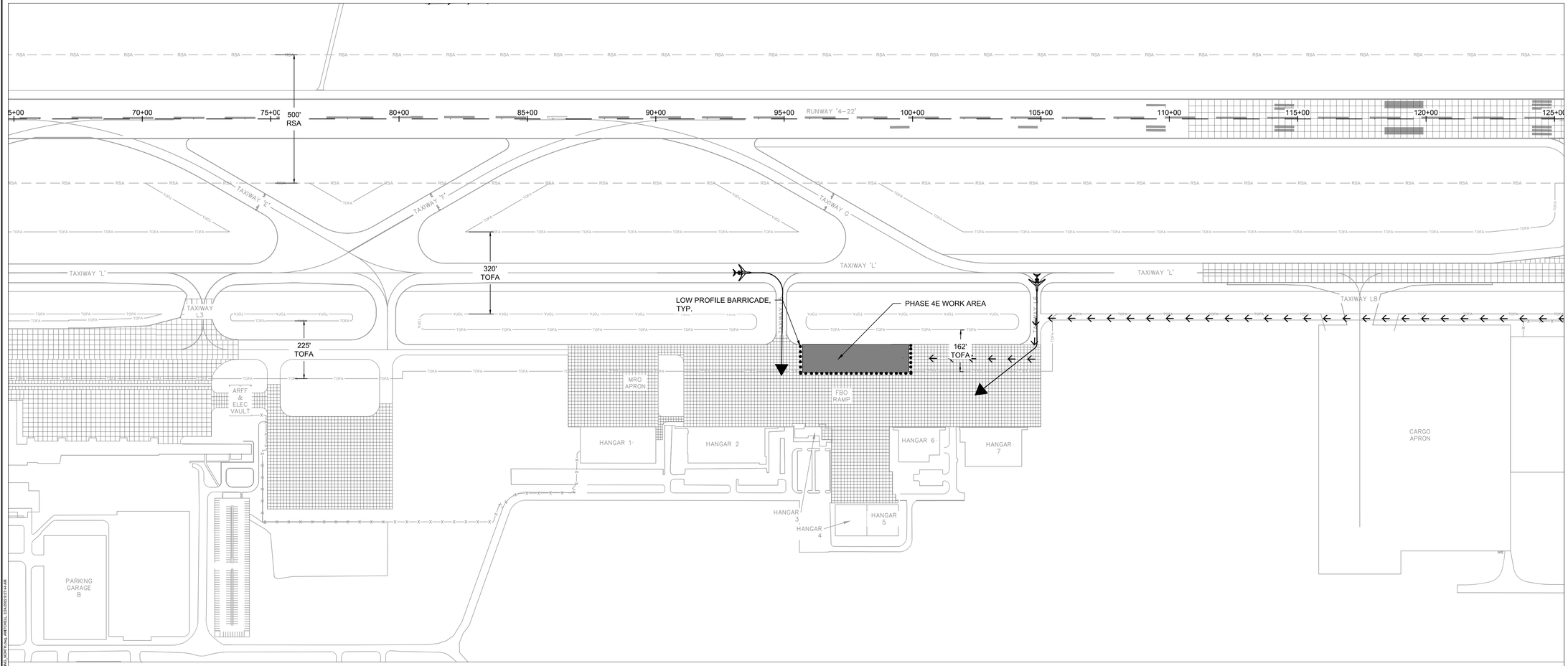

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4E DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 17.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 24.5 CF
   C. FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT - 507 SY
   D. ISOLATED SLAB REMOVAL AND REPLACEMENT (TAXILANE 2) - 47.5 SY
   E. JOINT SEALANT REMOVAL AND REPLACEMENT - 8,927 LF
2. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXILANE.
6. DURATION OF PHASE 4E CONSTRUCTION - 45 CALENDAR DAYS.

PHASE 4E WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK INSIDE TAXILANE 2 OBJECT FREE AREA FROM STA 95+72 TO STA 99+84.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. WORK IN PHASE 4E CANNOT BE COMPLETED CONCURRENT WITH PHASE 4D, 4F, OR 4H.

PHASE 4E AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF TAXILANE 2. TAXIWAYS 'L5' AND 'L6' SHALL REMAIN OPEN TO AIRCRAFT TRAFFIC.
2. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE TAXILANE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

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SCALE: 1" = 200'

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C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BRINKLEY
Feb 24 2022 12:47 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4E

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH120
WKD PROJ. NO.:
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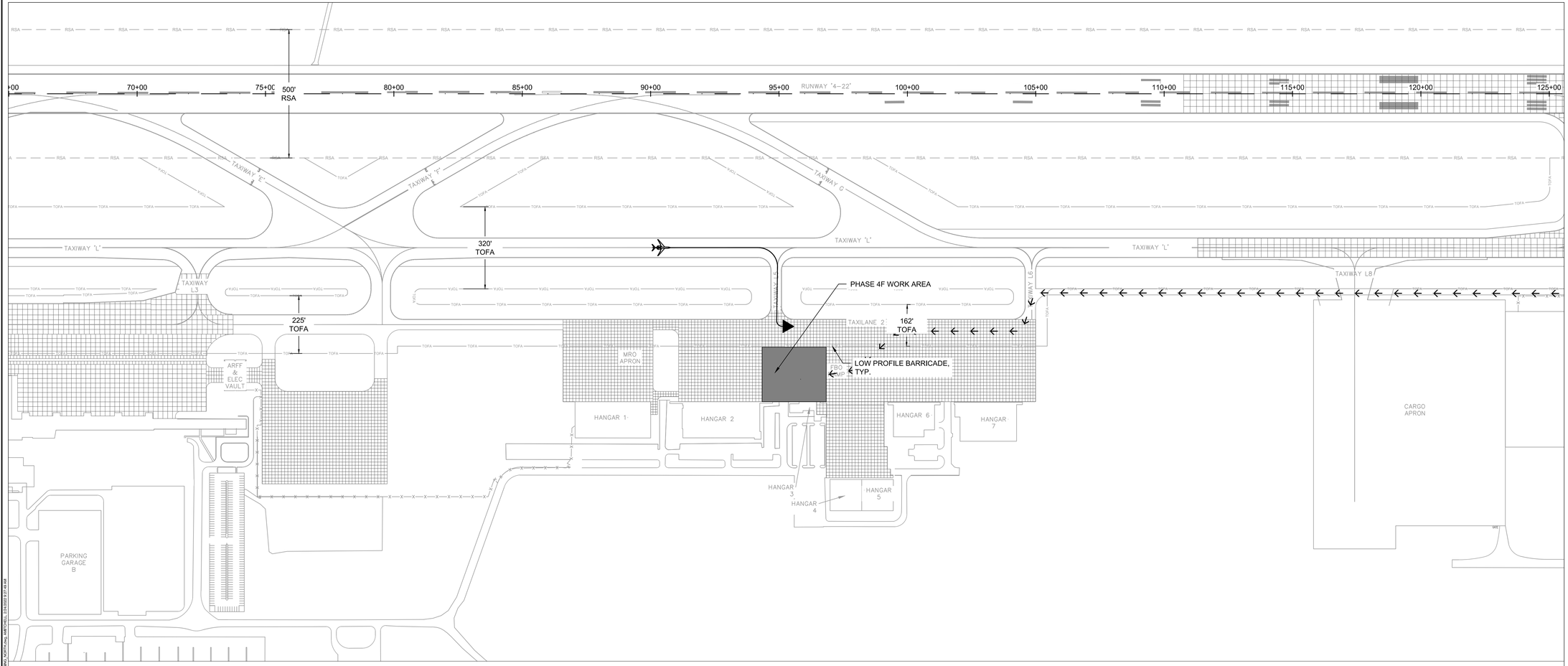

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4F DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 142.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 51 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (FBO RAMP) - 341 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 10,075 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 4F CONSTRUCTION - 30 CALENDAR DAYS.

PHASE 4F WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK OUTSIDE THE TAXILANE 2 OBJECT FREE AREA FROM STA 94+34 TO STA 96+84.
3. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
4. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. AIRCRAFT ACCESS TO HANGAR 3 MUST BE MAINTAINED AT ALL TIMES, CONTRACTOR TO PROVIDE WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
5. WORK IN PHASE 4F CANNOT BE COMPLETED CONCURRENT WITH PHASE 4E OR 4G.

PHASE 4F AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF THE FBO RAMP.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE TAXILANE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
SCALE: 1" = 200'

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No. 31405
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Feb 24 2022 12:47 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
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FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4F

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH121
WKD PROJ. NO.:
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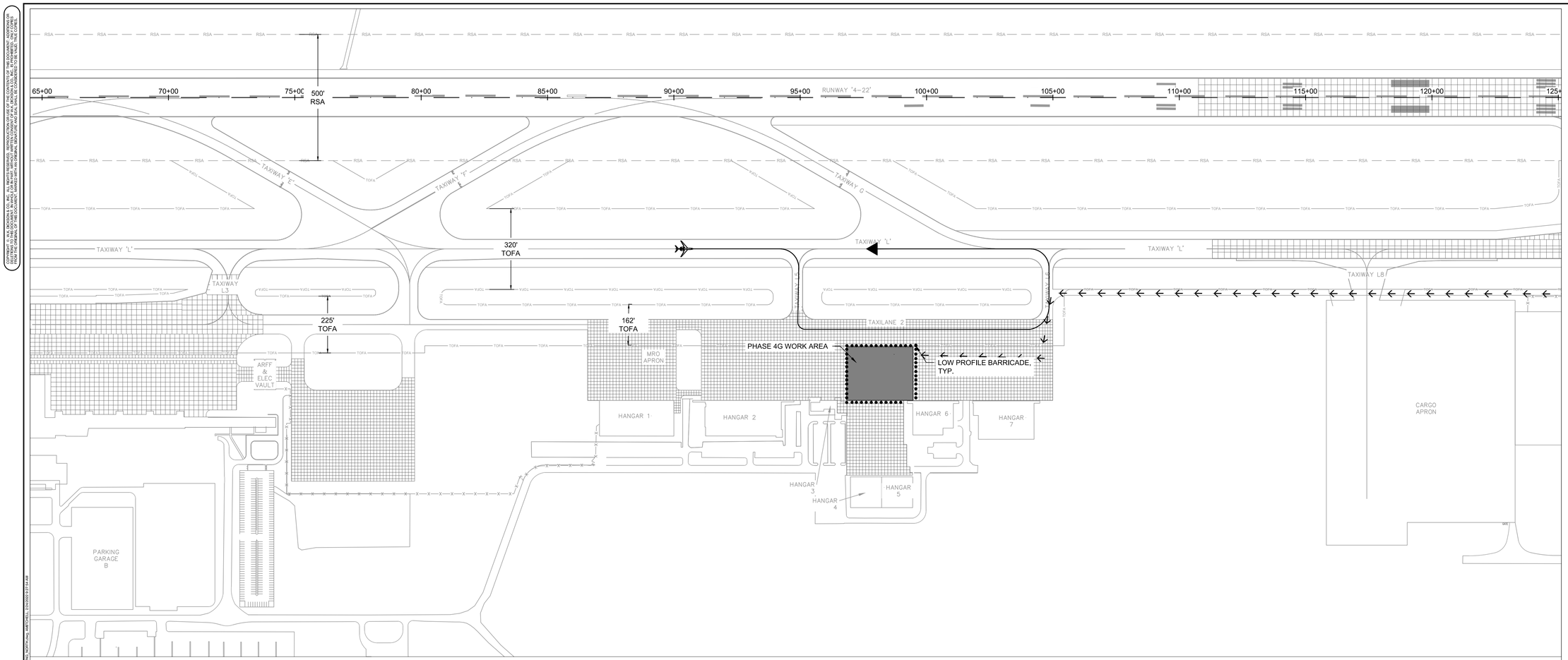

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4G DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 64 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 47 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (FBO RAMP) - 224.5 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 11,313 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. DURATION OF PHASE 4G CONSTRUCTION - 30 CALENDAR DAYS.

PHASE 4G WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK OUTSIDE TAXILANE 2 OBJECT FREE AREA FROM STA 96+84 TO STA 99+47.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. AIRCRAFT ACCESS TO HANGARS 4 AND 5 MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR TO PROVIDE WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. WORK IN PHASE 4G CANNOT BE COMPLETED CONCURRENT WITH PHASE 4E OR 4E.

PHASE 4G AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF THE FBO RAMP.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES IN CONSOLIDATED WORK AREAS.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE TAXILANE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
SCALE: 1" = 200'

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W. K. DICKSON & COMPANY, INC.
No. C00177
C.O.A.

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:47 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4G

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH122
WKD PROJ. NO.:
20210666.00.CA

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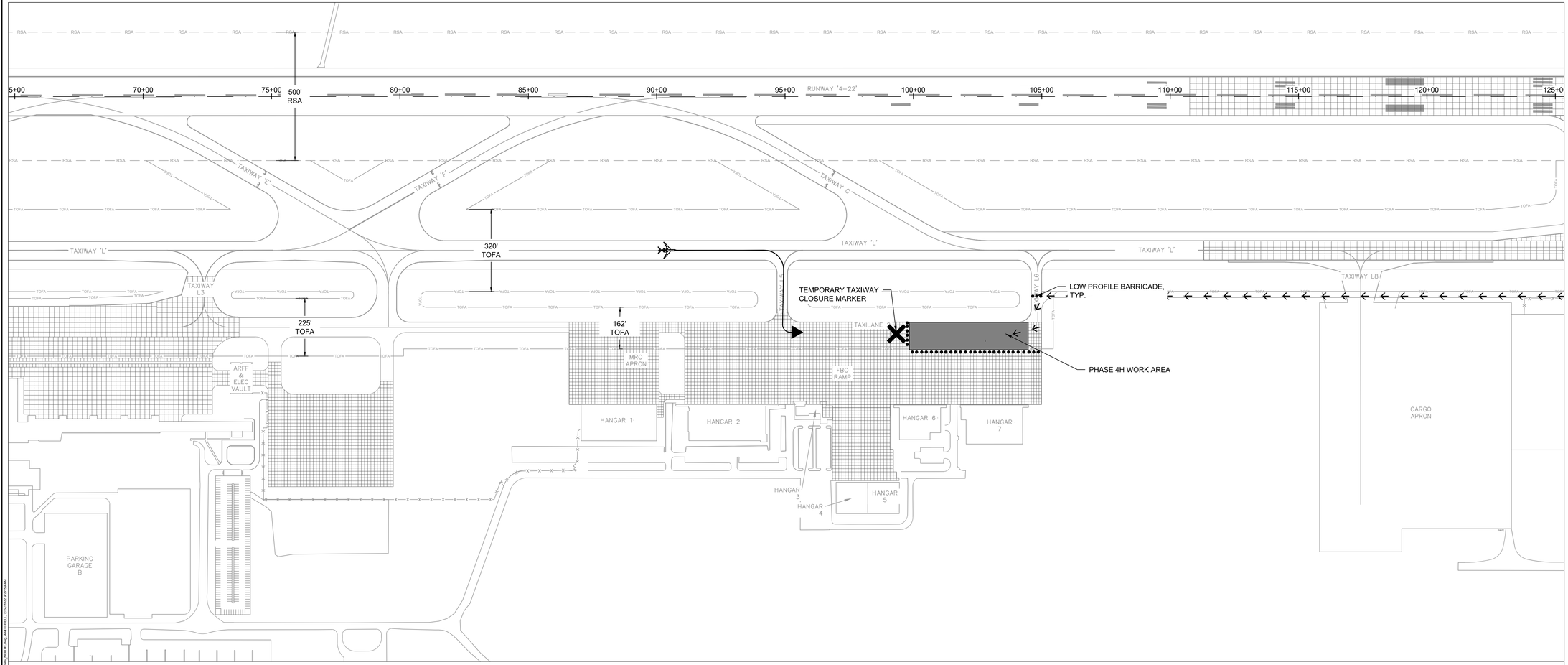

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4H DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 4 CF
   B. JOINT SEALANT REMOVAL AND REPLACEMENT - 9,850 LF
2. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
3. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
4. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING TAXILANE.
5. DURATION OF PHASE 4H CONSTRUCTION - 6 CALENDAR DAYS.

PHASE 4H WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK INSIDE TAXILANE 2 OBJECT FREE AREA FROM STA 99+84 TO STA 104+47.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.

PHASE 4H AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY FULL CLOSURE OF TAXIWAY 'L6' AND A PARTIAL CLOSURE OF TAXILANE 2. TAXIWAY 'L5' SHALL REMAIN OPEN TO AIRCRAFT TRAFFIC.
2. CONTRACTOR SHALL COVER ALL GUIDANCE SIGNS AND TAXIWAY LIGHTS AND INSTALL LOW PROFILE BARRICADES AS INDICATED.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE TAXILANE/TAXIWAY CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
SCALE: 1" = 200'

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No. 31405
CHRISTOPHER J. BIRMINGHAM
Feb 24 2022 12:47 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4H

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH123
WKD PROJ. NO.:
20210666.00.CA

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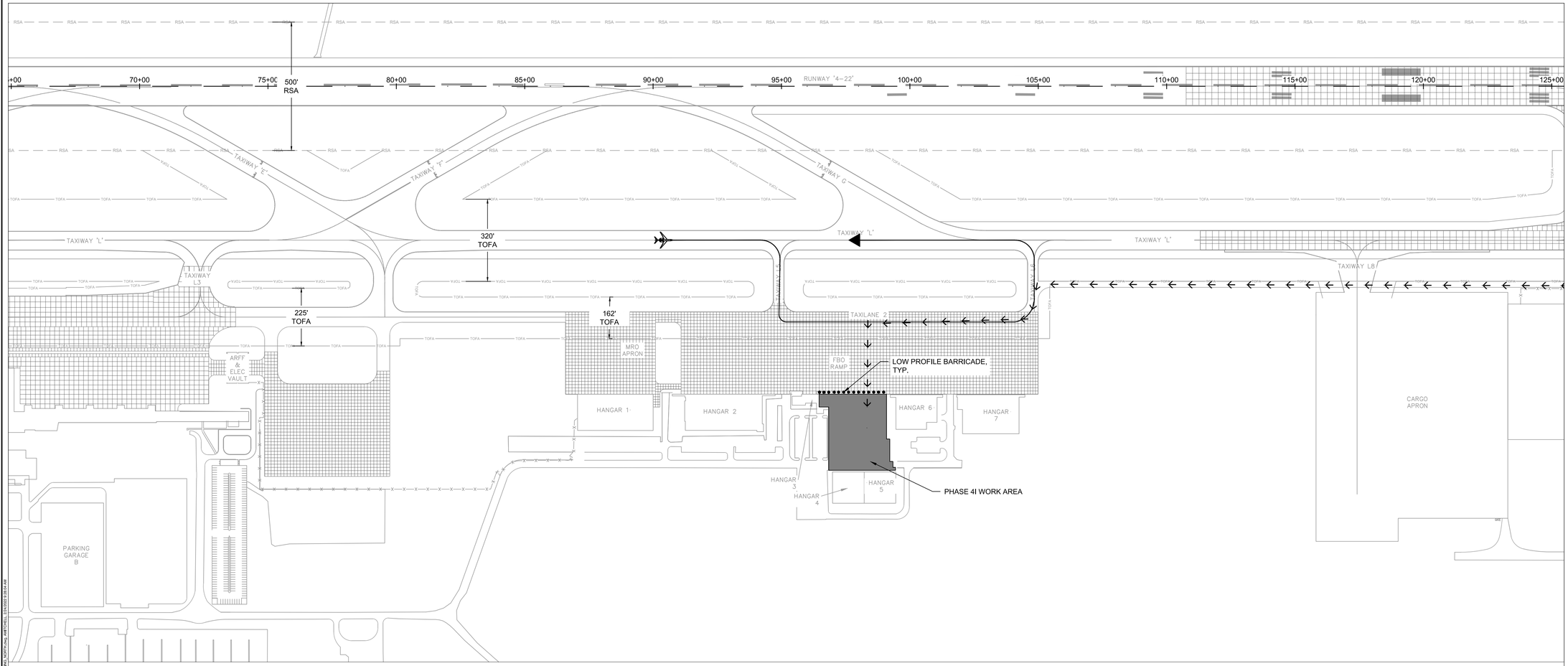

PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4I DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 43.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 24 CF
   C. ISOLATED SLAB REMOVAL AND REPLACEMENT (FBO RAMP) - 6 SY
   D. JOINT SEALANT REMOVAL AND REPLACEMENT - 13,452 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. ESTIMATED DURATION OF PHASE 4I CONSTRUCTION - 8 DAYS

PHASE 4I WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE WORK ON THE FBO RAMP FROM STA 96+47 TO STA 99+44.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. AIRCRAFT ACCESS TO HANGARS 4 AND 5 MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR TO PROVIDE WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
4. WORK IN PHASE 4G CANNOT BE COMPLETED CONCURRENT WITH PHASE 4I OR 4E.

PHASE 4I AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL CLOSURE OF THE FBO RAMP.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE TAXILANE CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
SCALE: 1" = 200'

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PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

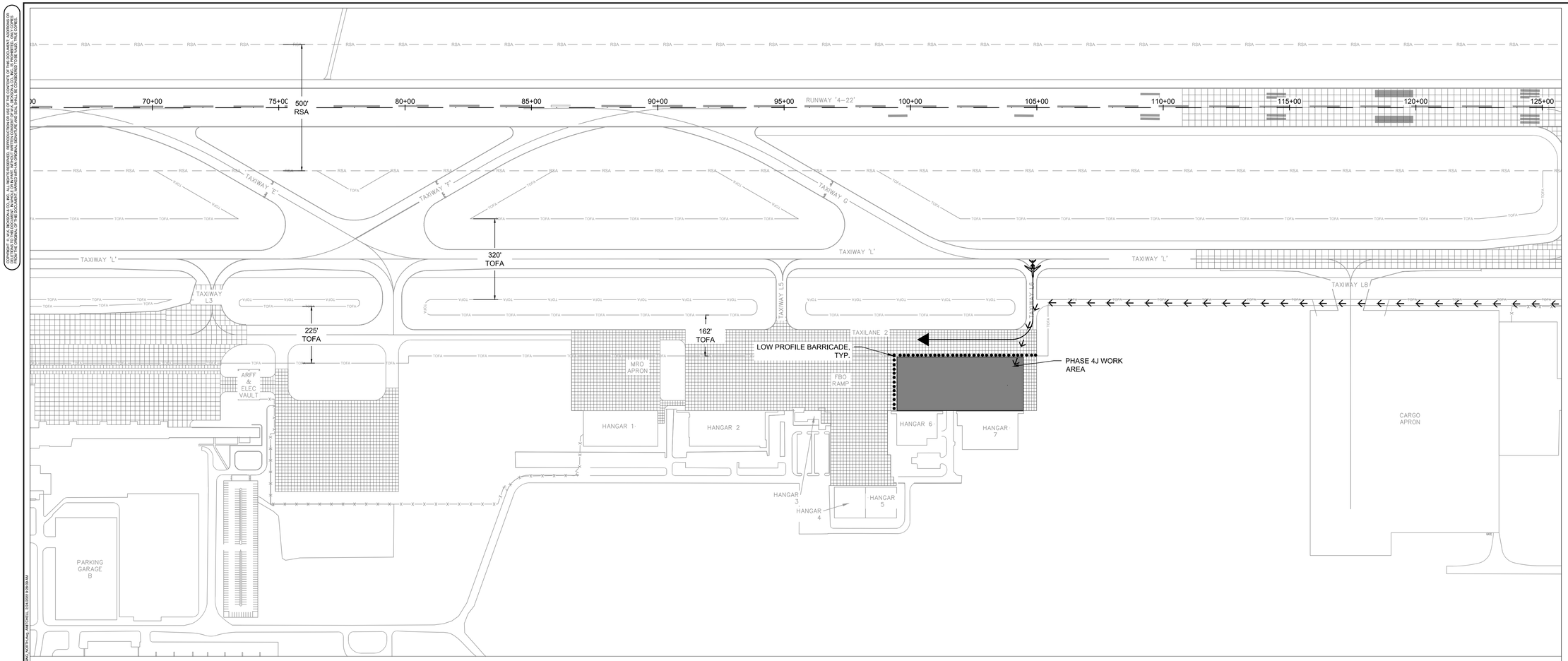
REVISION RECORD

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4I

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH124
WKD PROJ. NO.:
20210666.00.CA



PHASING LEGEND

- WORK AREA
- RUNWAY/TAXIWAY CLOSURE MARKER
- LOW PROFILE BARRICADES
- ACCESS/HAUL ROUTE
- FLAGMAN
- CONTRACTOR STAGING AREA

PHASE 4J DESCRIPTION:

1. WORK INCLUDES APPROXIMATELY:
   A. CRACK ROUTING AND SEALING - 73.5 LF
   B. SPALL/POTHOLE/PATCH REPAIR (ASSUME 6" DEPTH) - 4 CF
   C. JOINT SEALANT REMOVAL AND REPLACEMENT - 19,638 LF
3. REMARK DAMAGED PAVEMENT MARKINGS (AS NEEDED).
4. CLEAN AIRFIELD PAVEMENT DAILY TO PREVENT FOD ISSUES.
5. INSPECTION OF PAVEMENTS WITH AIRPORT OPERATIONS PRIOR TO REOPENING APRON.
6. ESTIMATED DURATION OF PHASE 4J CONSTRUCTION - 12 DAYS

PHASE 4J WORK AREA:

1. LIMITS OF WORK SHALL INCLUDE ALL WORK OUTSIDE THE TAXILANE 2 OBJECT FREE AREA FROM STA 99+47TO STA 104+47.
2. MAXIMUM EQUIPMENT HEIGHT DURING THIS PHASE SHALL NOT EXCEED 25'.
3. CONTRACTOR TO CONSOLIDATE WORK WITH THE PHASE LIMITS TO MAXIMIZE AREA OF APRON TO REMAIN OPEN. AIRCRAFT ACCESS TO HANGARS 6 AND 7 MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR TO PROVIDE WORK PLAN OF HOW THIS WILL BE ACCOMPLISHED TO THE RPR, ENGINEER, AND AIRPORT PROJECT MANAGER DURING THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

PHASE 4J AOA COORDINATION/STATUS:

1. THIS PHASE WILL REQUIRE A TEMPORARY PARTIAL PHASED CLOSURE OF THE FBO APRON.
2. CONTRACTOR TO INSTALL LOW PROFILE BARRICADES AROUND CONSOLIDATED WORK AREAS.
3. ALL WORK SHALL BE COMPLETED OUTSIDE OF THE RSA AND ANY ACTIVE TOFA.
4. CONTRACTOR SHALL COORDINATE RAMP CLOSURES WITH AIRPORT PROJECT MANAGER TO ENSURE AIRPORT OPERATIONS AND FBO HAVE BEEN NOTIFIED OF MODIFIED MOVEMENT CONDITIONS.

200 0 200 400
SCALE: 1" = 200'

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:47 PM
PROFESSIONAL SEAL

NO.	DATE	DESCRIPTION	BY

REVISION RECORD

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
PHASING PLAN 4J

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
PH125

WKD PROJ. NO.:
20210666.00.CA

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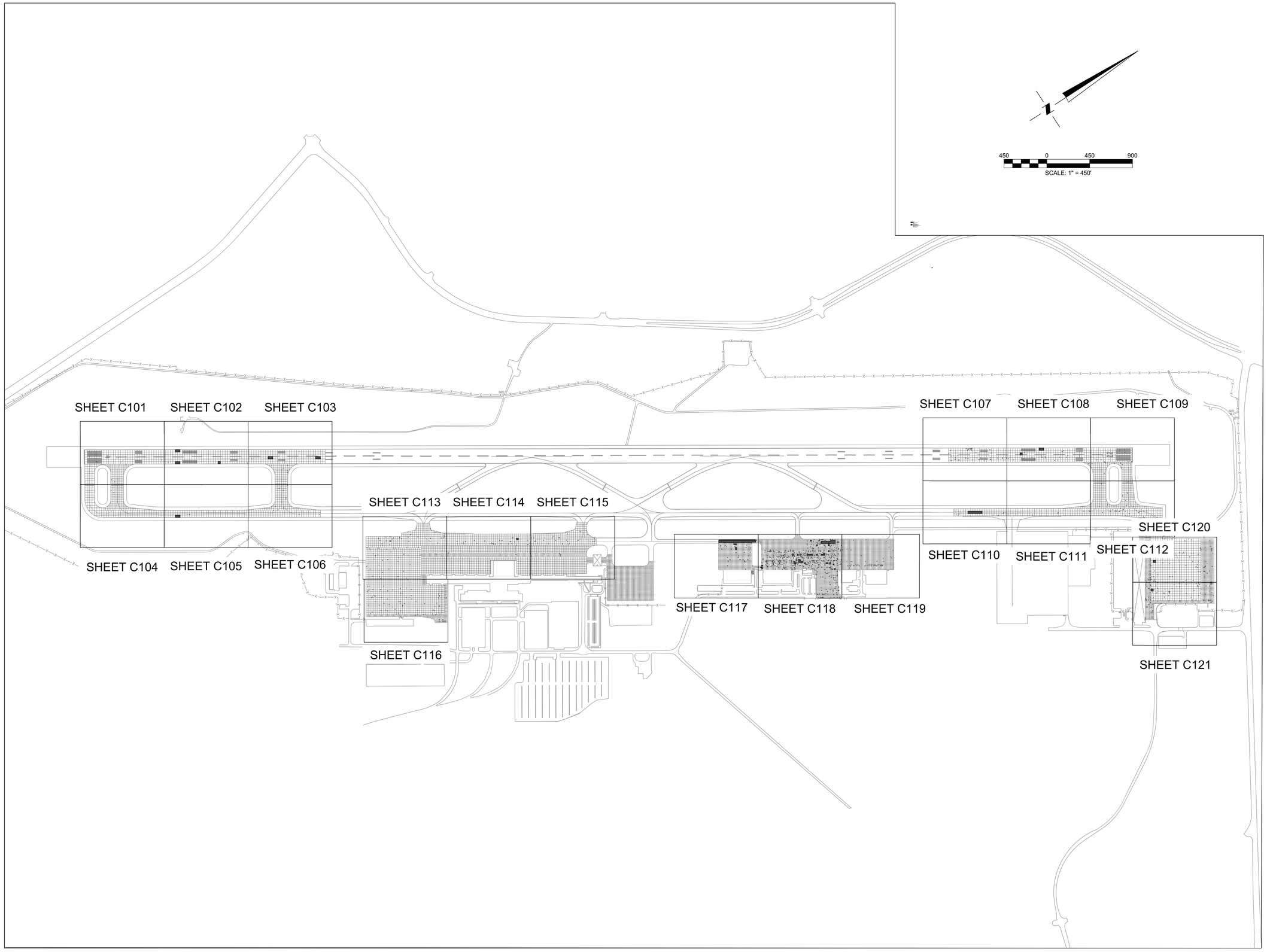

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REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:48 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS - OVERALL SHEET

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C100

WKD PROJ. NO.:
20210666.00.CA

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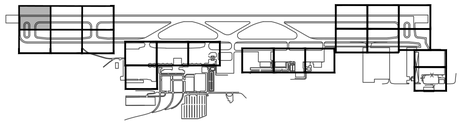
PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

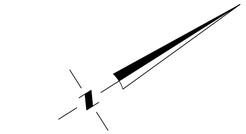
NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.



KEYMAP

SCALE: 1" = 2000'



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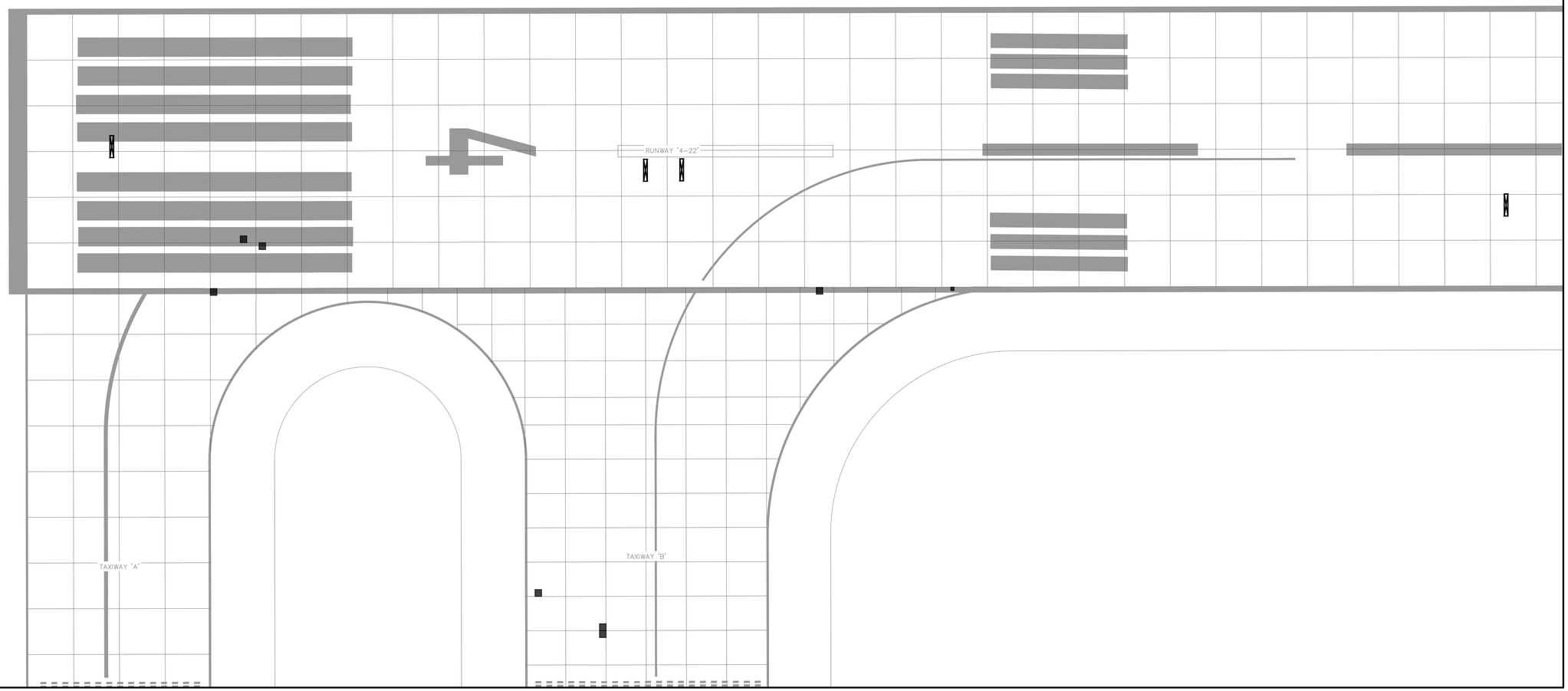
SCALE: 1" = 30'



MATCHLINE - SEE SHEET C102

MATCHLINE - SEE SHEET C104

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No. 31405
CHRISTOPHER J. BIRMINGHAM

Feb 24 2022 12:48 PM

PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR RUNWAY 4 - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C101

WKD PROJ. NO.:
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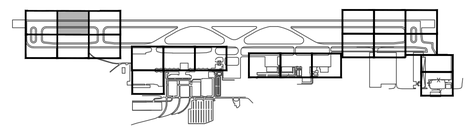
PAVEMENT WORK AREAS LEGEND

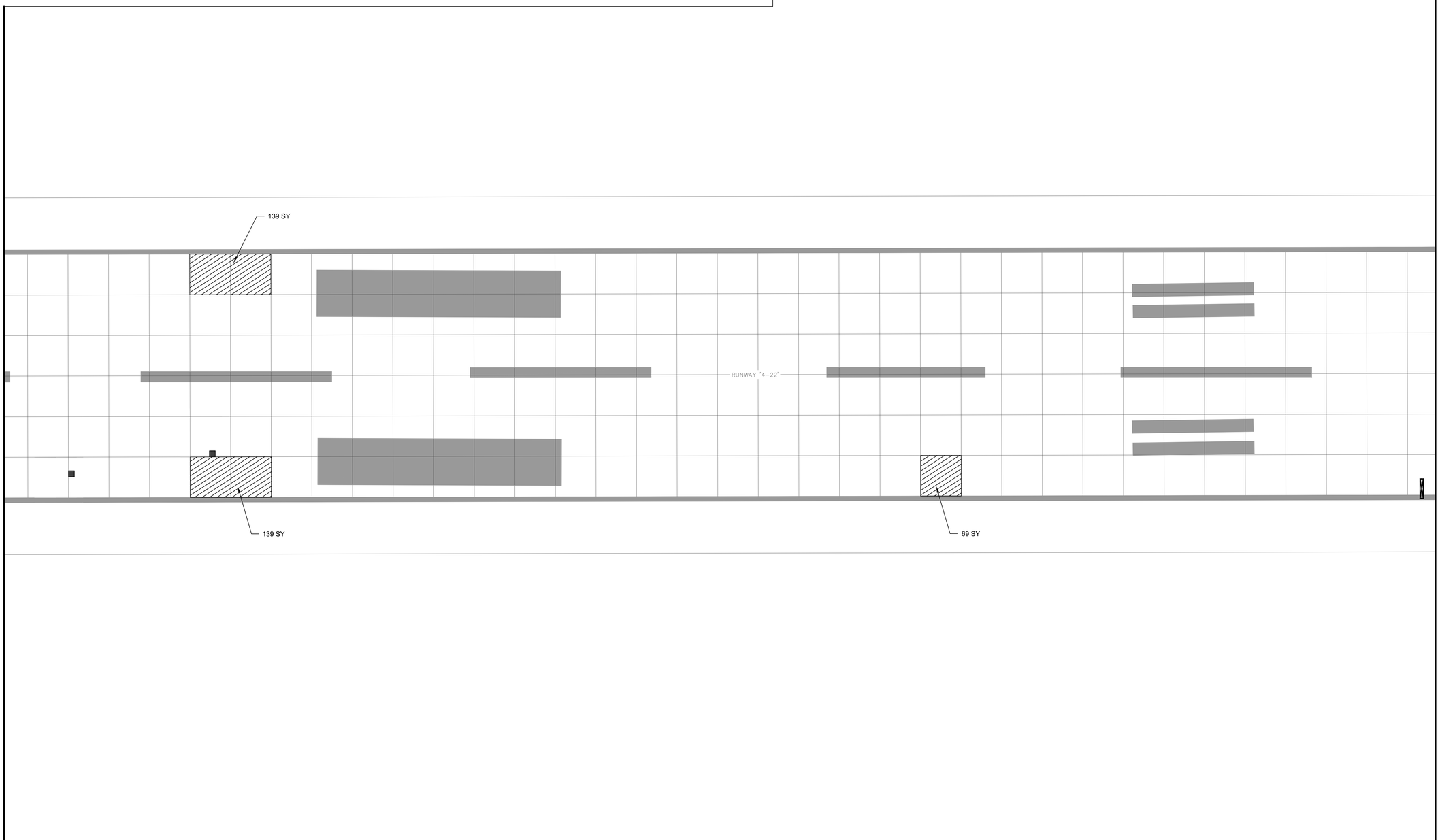
- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.



KEYMAP
SCALE: 1" = 2000'



MATCHLINE - SEE SHEET C101

MATCHLINE - SEE SHEET C103

MATCHLINE - SEE SHEET C105

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PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKENSTOCK
Feb 24 2022 12:48 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR RUNWAY 4 - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C102

WKD PROJ. NO.:
20210666.00.CA

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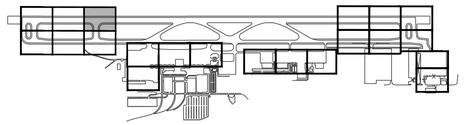
PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

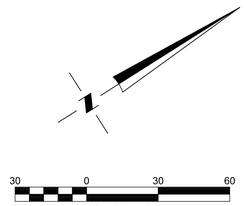
NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.

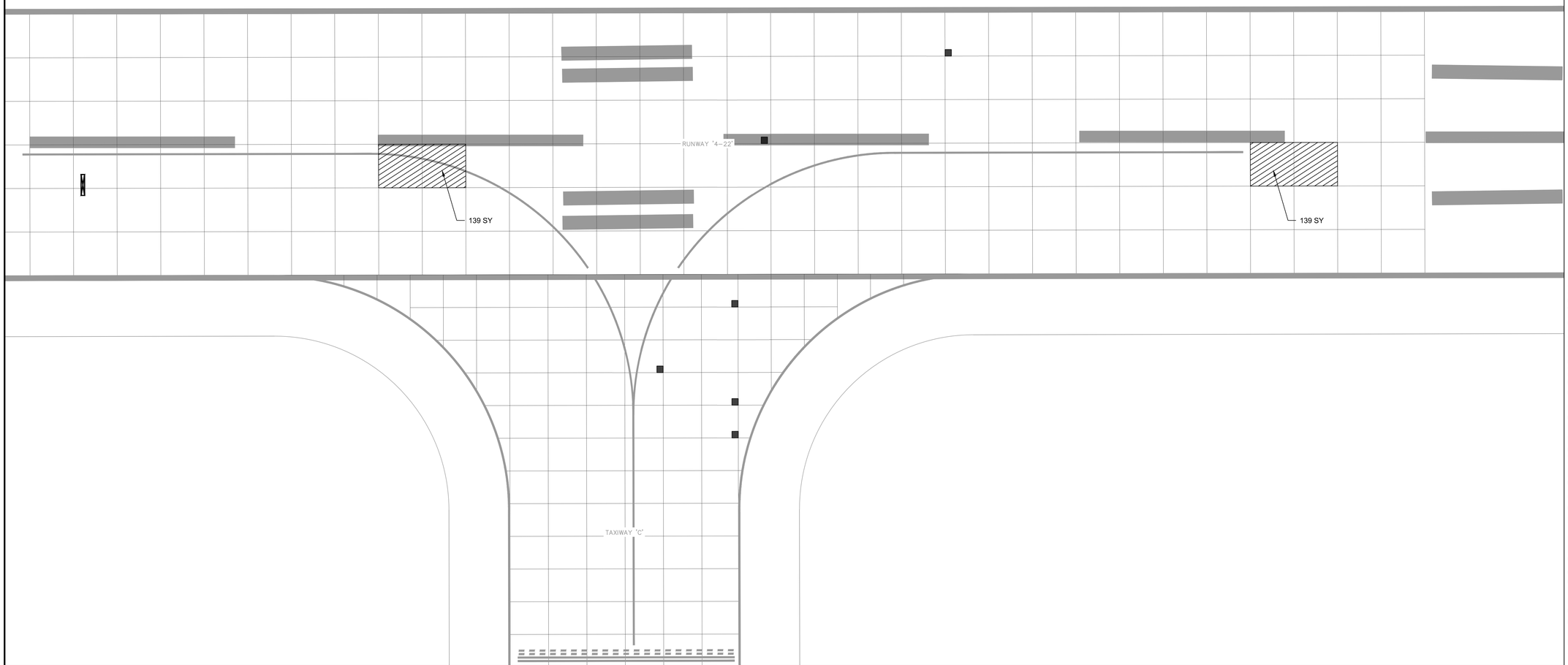


KEYMAP

SCALE: 1" = 2000'



MATCHLINE - SEE SHEET C102



MATCHLINE - SEE SHEET C106

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W. K. DICKSON & COMPANY, INC.
No. C00177
CERTIFICATE OF AUTHORIZATION

C.O.A.

SOUTH CAROLINA
PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKENSTOCK

Feb 24 2022 12:48 PM

PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR RUNWAY 4 - SHEET 3

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C103

WKD PROJ. NO.:
20210666.00.CA

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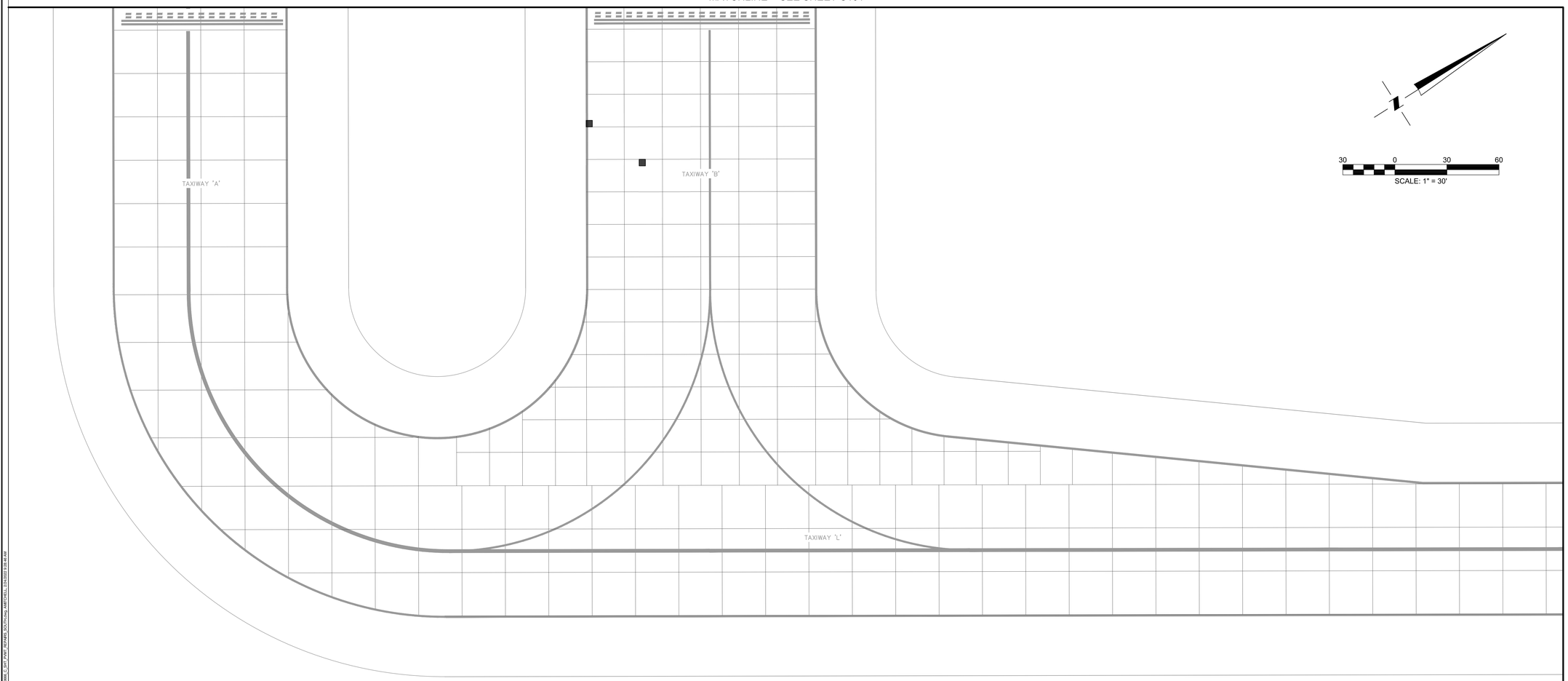
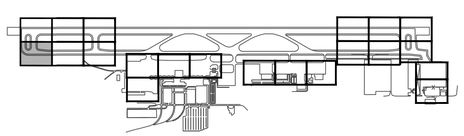
MATCHLINE - SEE SHEET C101



MATCHLINE - SEE SHEET C105

NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.



KEYMAP
SCALE: 1" = 2000'

PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

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No. 31405
CHRISTOPHER J. BIRKMEIER
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PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR TAXIWAY L (SOUTH END) - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C104

WKD PROJ. NO.:
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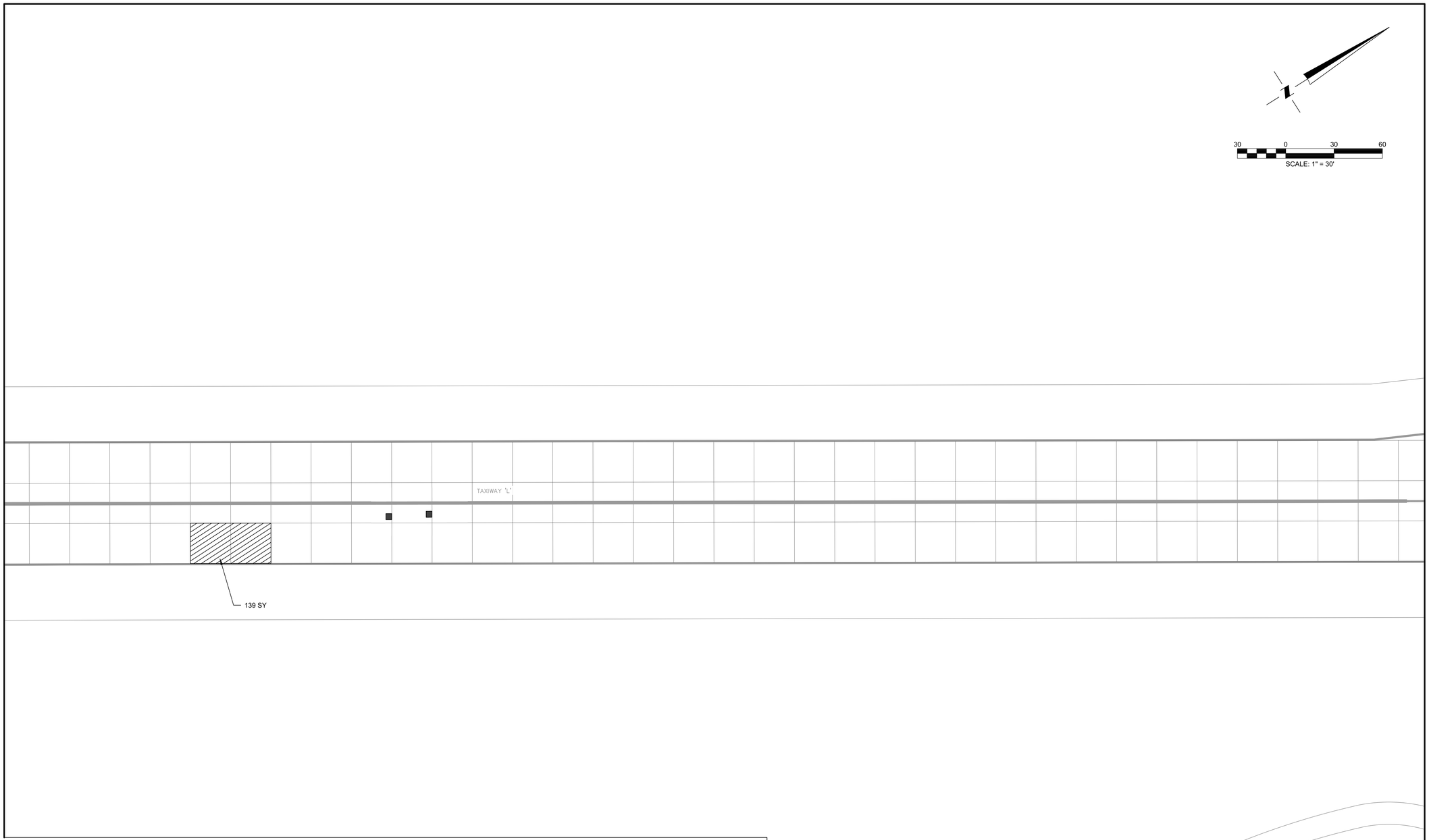
MATCHLINE - SEE SHEET C102

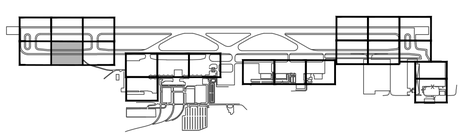


MATCHLINE - SEE SHEET C104

MATCHLINE - SEE SHEET C106

NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.



KEYMAP
SCALE: 1" = 2000'

PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

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SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKMEIER
Feb 24 2022 12:48 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR TAXIWAY L (SOUTH END) - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C105

WKD PROJ. NO.:
20210666.00.CA

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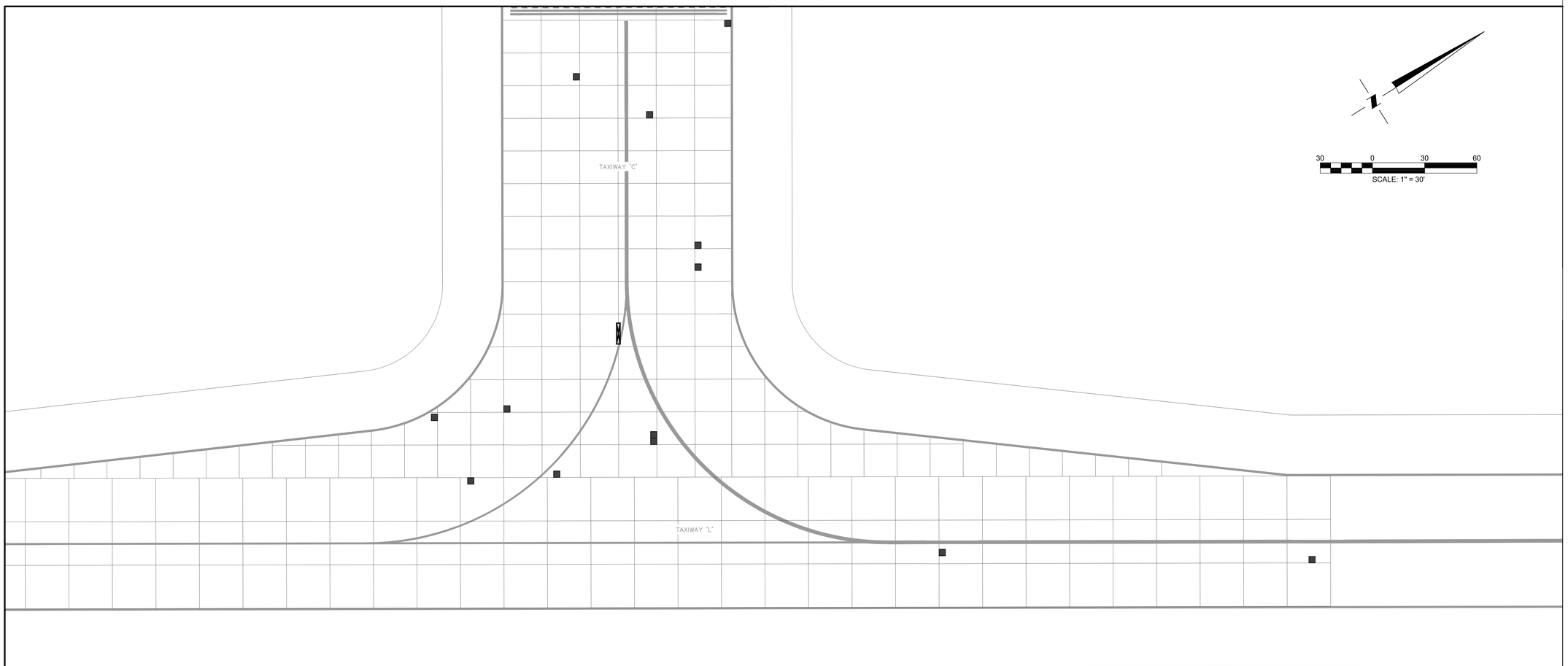
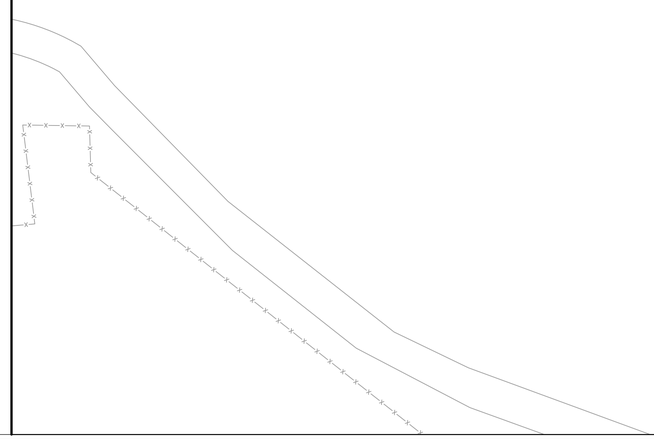
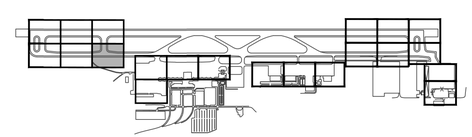
MATCHLINE - SEE SHEET C105

MATCHLINE - SEE SHEET C103







KEYMAP

SCALE: 1" = 2000'

PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.

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No. 31405
CHRISTOPHER J. BIRKMEIER

Feb 24 2022 12:49 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR TAXIWAY L (SOUTH END) - SHEET 3

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C106

WKD PROJ. NO.:
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PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

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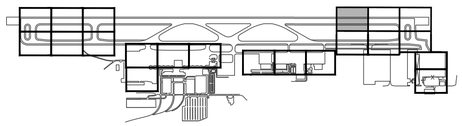
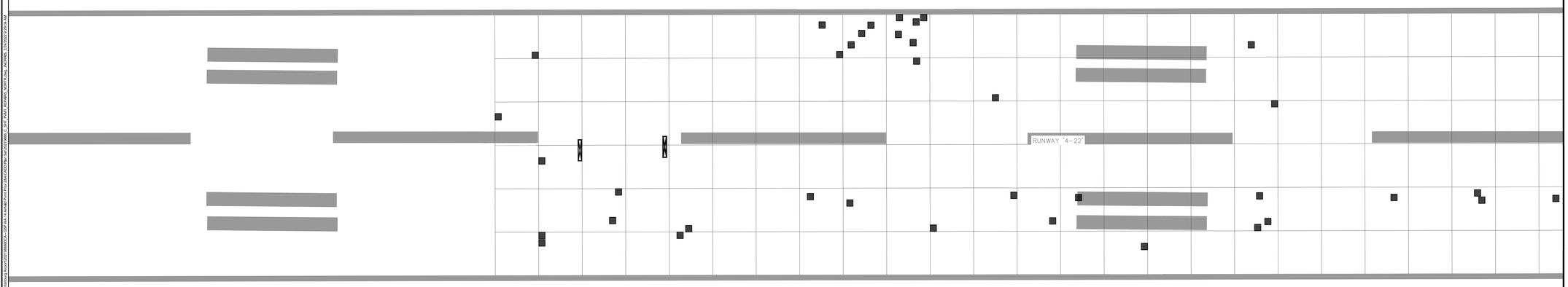
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.



KEYMAP

SCALE: 1" = 2000'



30 0 30 60

SCALE: 1" = 30'

MATCHLINE - SEE SHEET C108

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MATCHLINE - SEE SHEET C110

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C.O.A.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM

Feb 24 2022 12:49 PM

PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR RUNWAY 22- SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C107

WKD PROJ. NO.:
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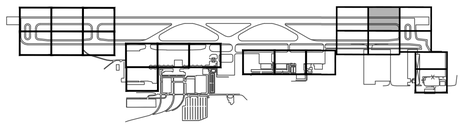
PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

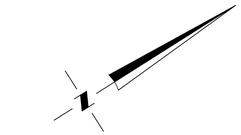
NOTES:

1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.



KEYMAP

SCALE: 1" = 2000'



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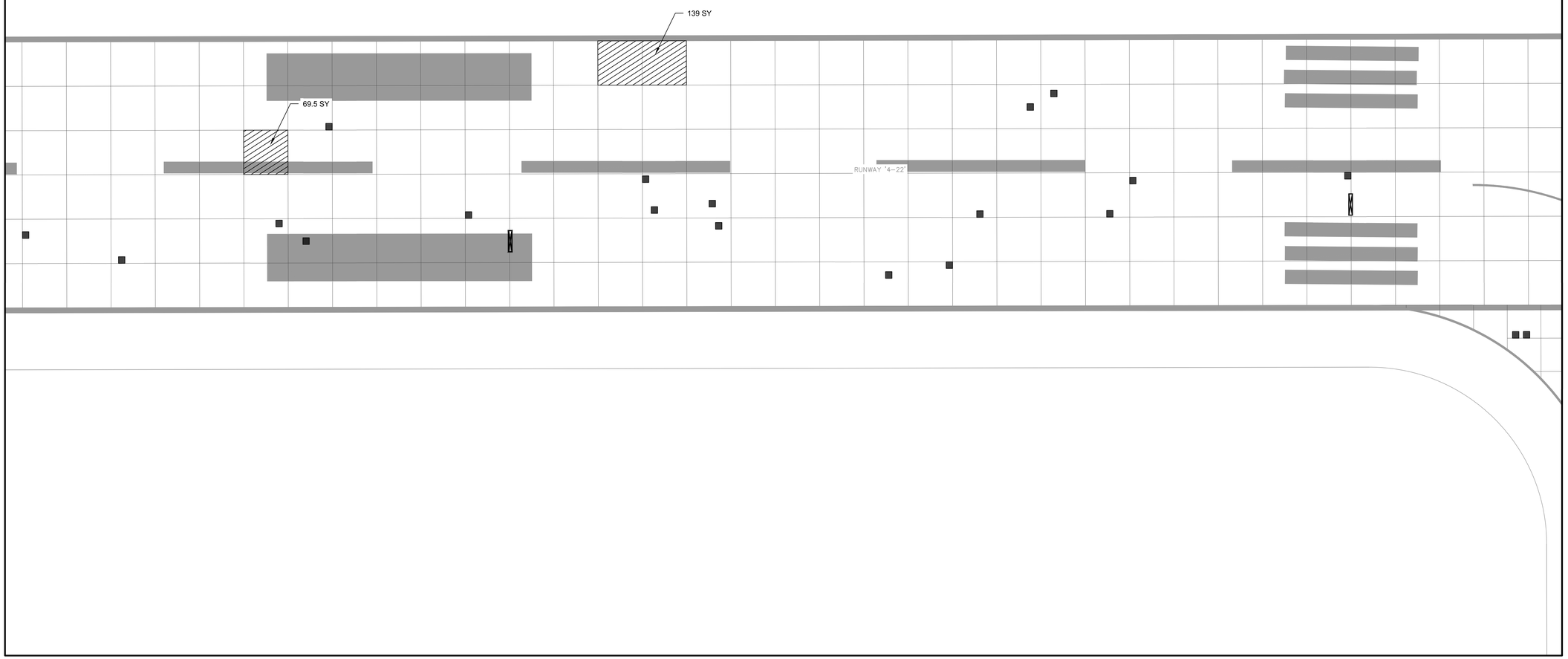
SCALE: 1" = 30'

MATCHLINE - SEE SHEET C107



MATCHLINE - SEE SHEET C109

MATCHLINE - SEE SHEET C111

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PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR RUNWAY 22 - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C108

WKD PROJ. NO.:
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PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

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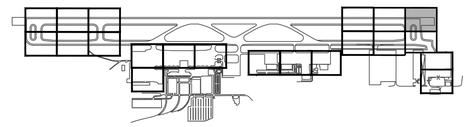
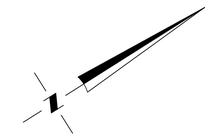
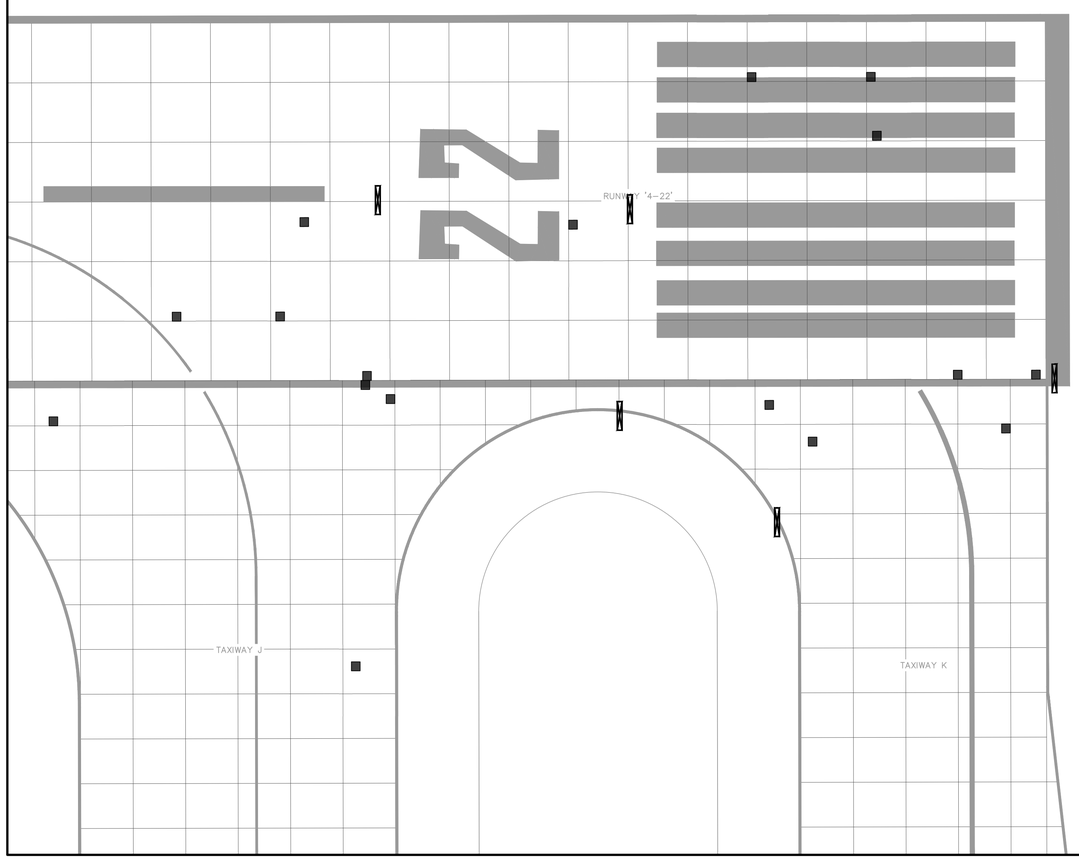


KEYMAP
SCALE: 1" = 2000'



30 0 30 60
SCALE: 1" = 30'

MATCHLINE - SEE SHEET C108



MATCHLINE - SEE SHEET C112

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NO.	DATE	DESCRIPTION	BY

REVISION RECORD

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR RUNWAY 22 - SHEET 3

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C109

WKD PROJ. NO.:
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PAVEMENT WORK AREAS LEGEND

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- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

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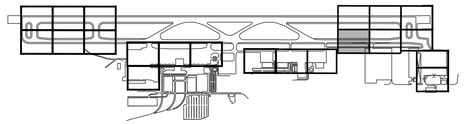
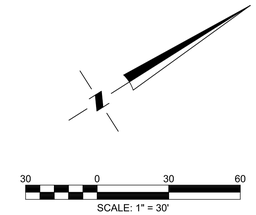
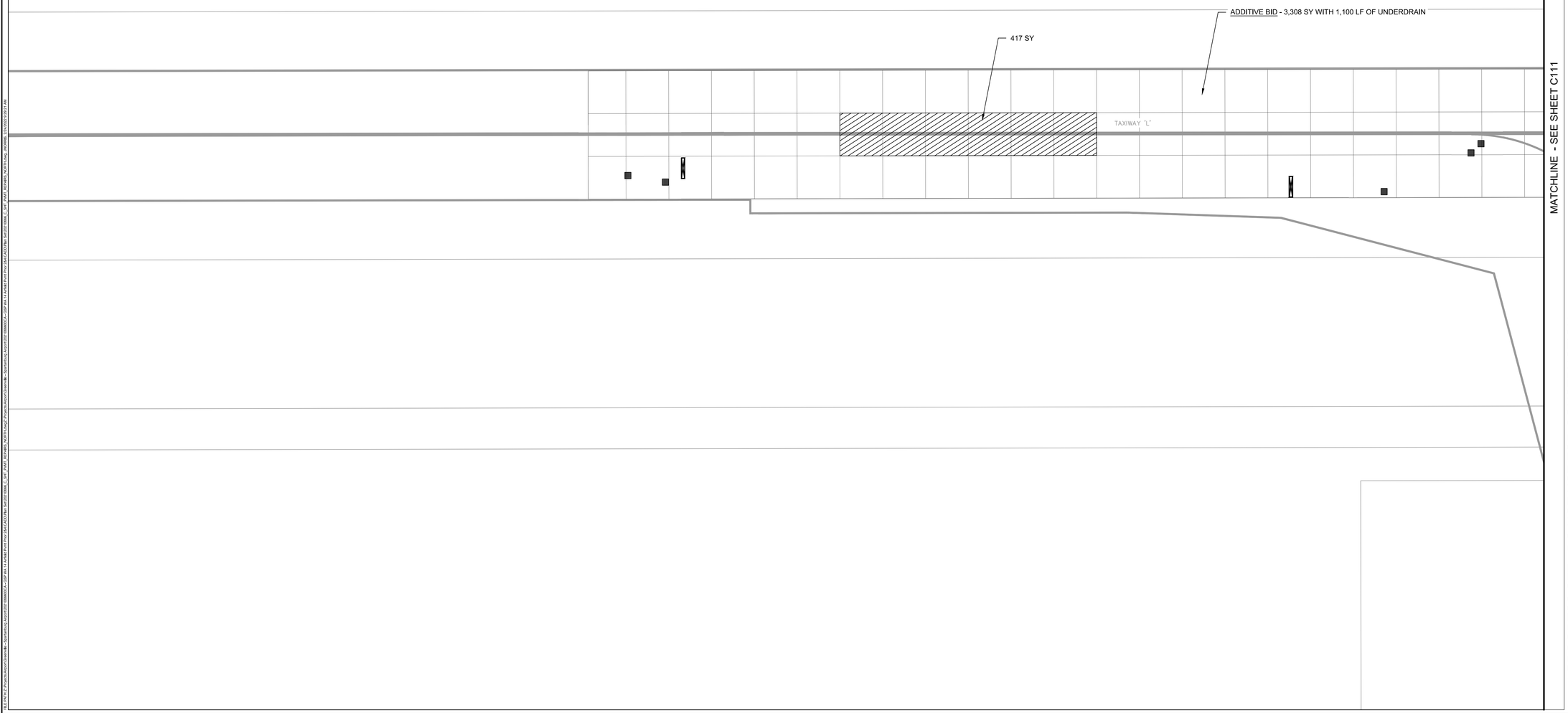


KEYMAP

SCALE: 1" = 2000'

MATCHLINE - SEE SHEET C107





MATCHLINE - SEE SHEET C111

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Feb 24 2022 12:49 PM
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REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR TAXIWAY L (NORTH END) - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C110

WKD PROJ. NO.:
20210666.00.CA

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PAVEMENT WORK AREAS LEGEND

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- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

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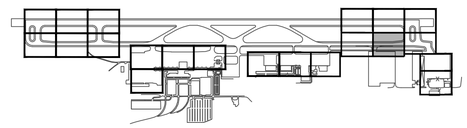
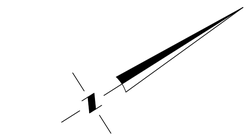


KEYMAP

SCALE: 1" = 2000'



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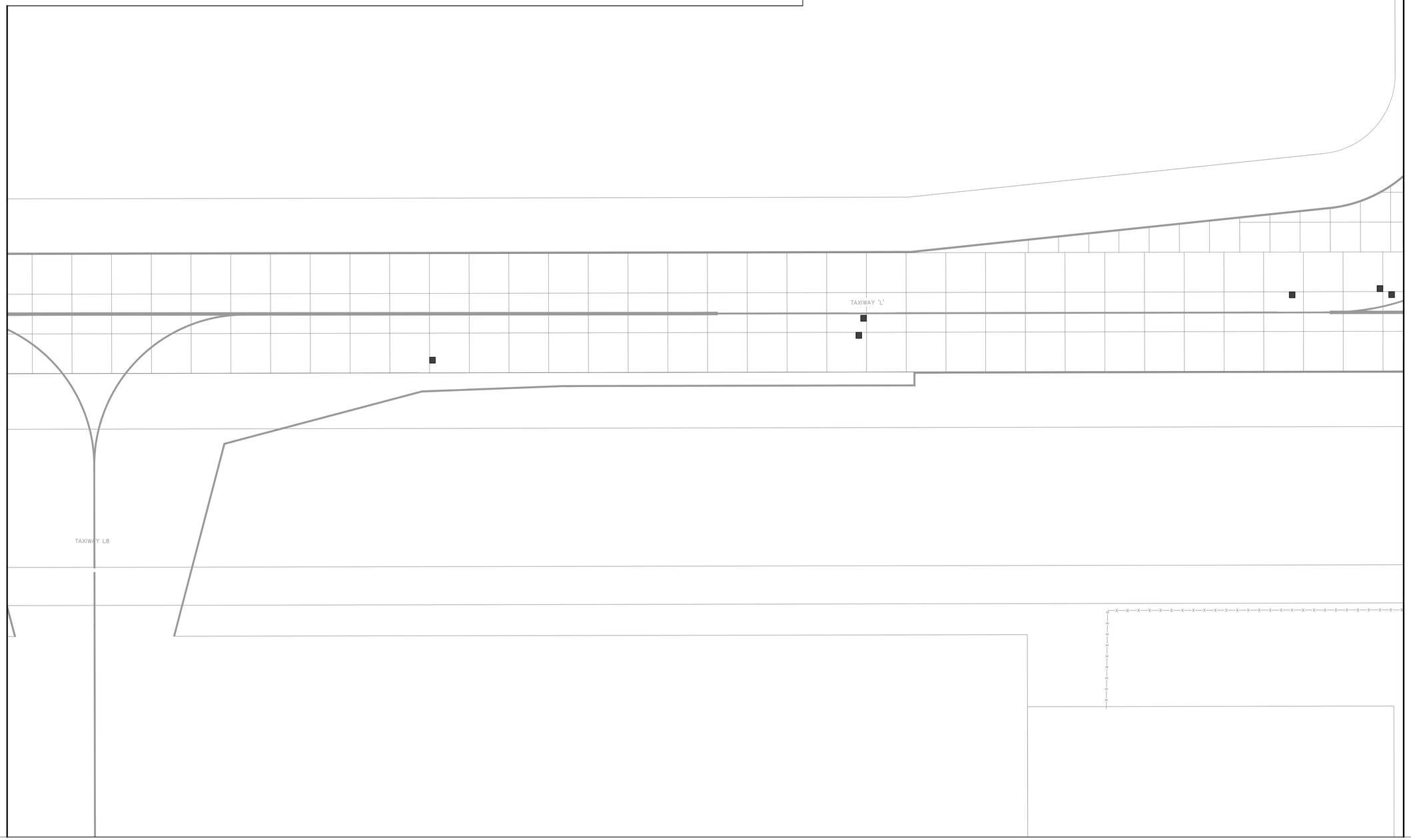
SCALE: 1" = 30'

MATCHLINE - SEE SHEET C108



MATCHLINE - SEE SHEET C110

MATCHLINE - SEE SHEET C112

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SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM
Feb 24 2022 12:50 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR TAXIWAY L (NORTH END) - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C111

WKD PROJ. NO.:
20210666.00.CA

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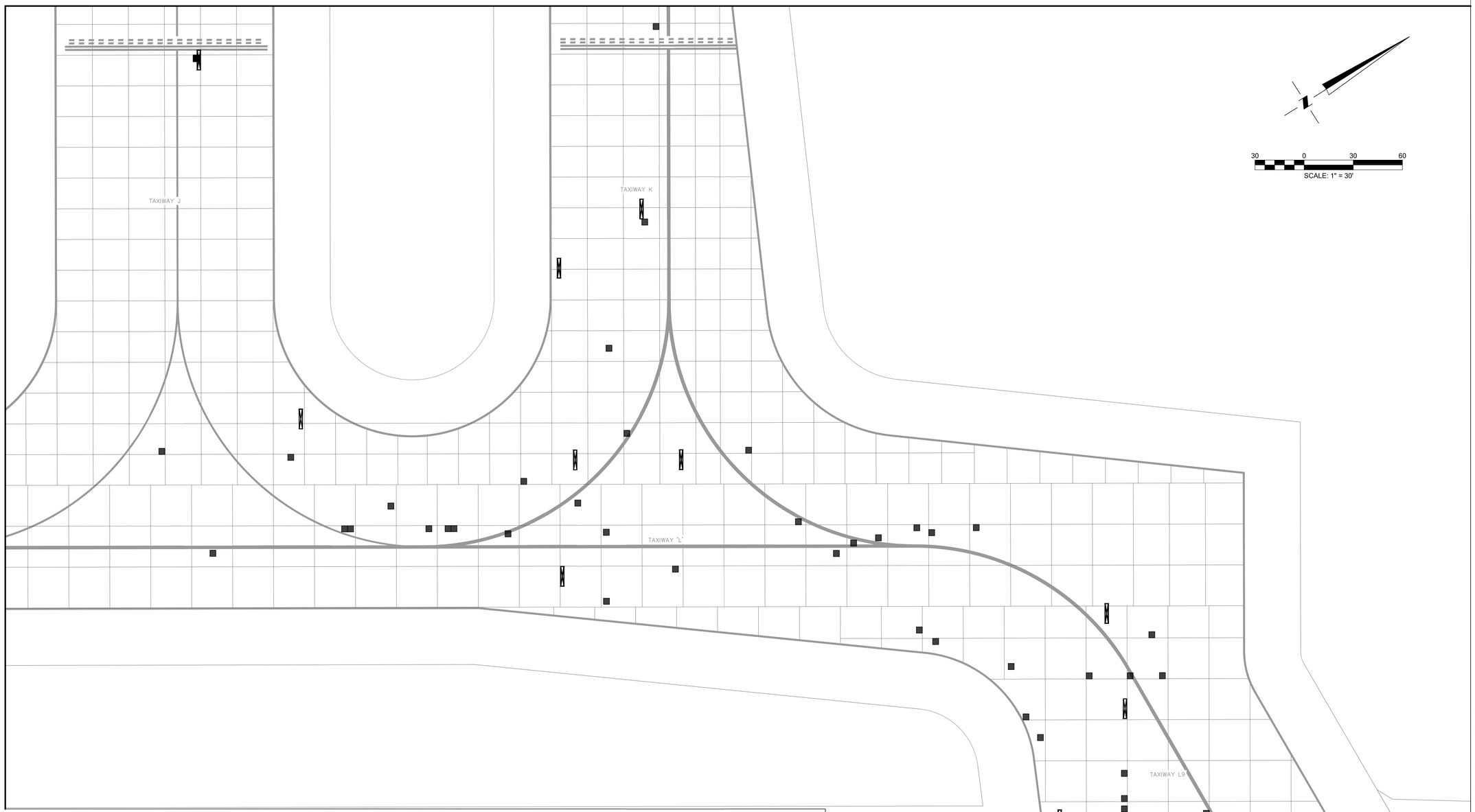
MATCHLINE - SEE SHEET C109



MATCHLINE - SEE SHEET C111

MATCHLINE - SEE SHEET C120

NOTES:

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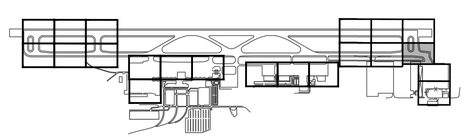

KEYMAP

SCALE: 1" = 2000'

PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

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No. 31405
CHRISTOPHER J. BIRKENEIER
Feb 24 2022 12:50 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR TAXIWAY L (NORTH END) - SHEET 3

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C112

WKD PROJ. NO.:
20210666.00.CA

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PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

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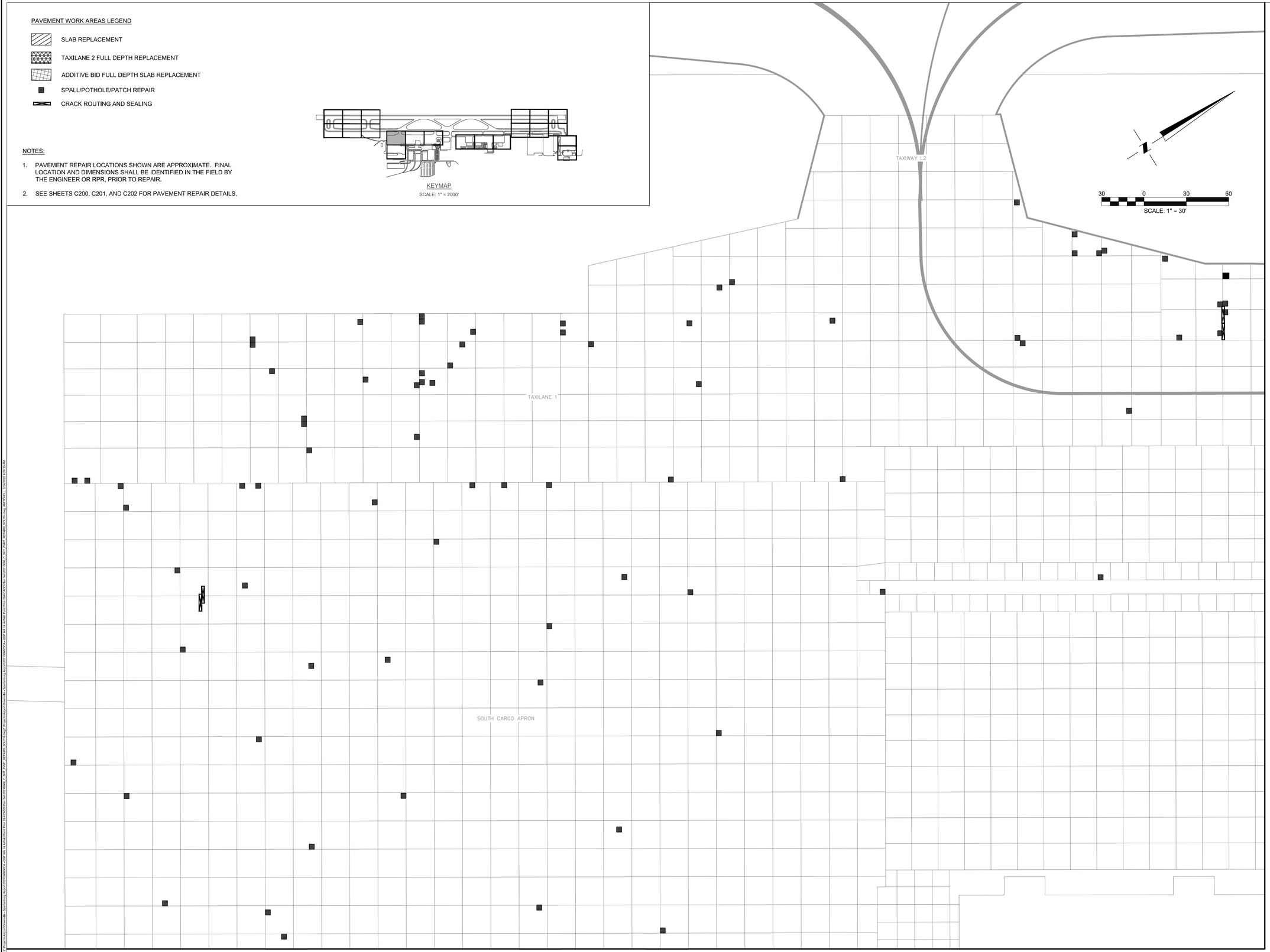
KEYMAP

SCALE: 1" = 2000'



MATCHLINE - SEE SHEET C114

MATCHLINE - SEE SHEET C116

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CHRISTOPHER J. BIRMINGER

Feb 24 2022 12:50 PM

PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C113

WKD PROJ. NO.:
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PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

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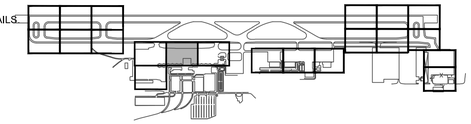

KEYMAP

SCALE: 1" = 2000'

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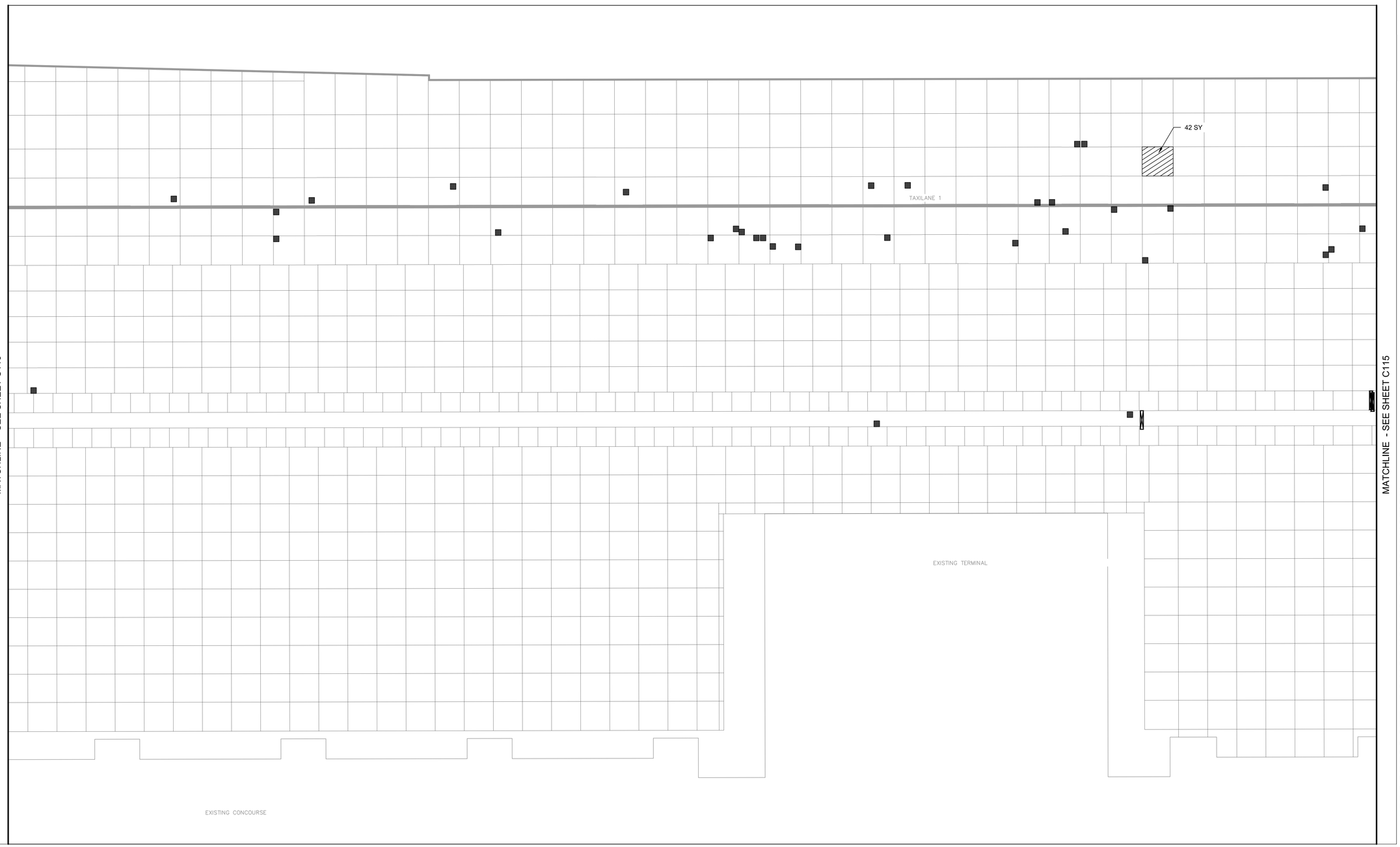
SCALE: 1" = 30'



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CHRISTOPHER J. BIRMINGER

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PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C114

WKD PROJ. NO.:
20210666.00.CA

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PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

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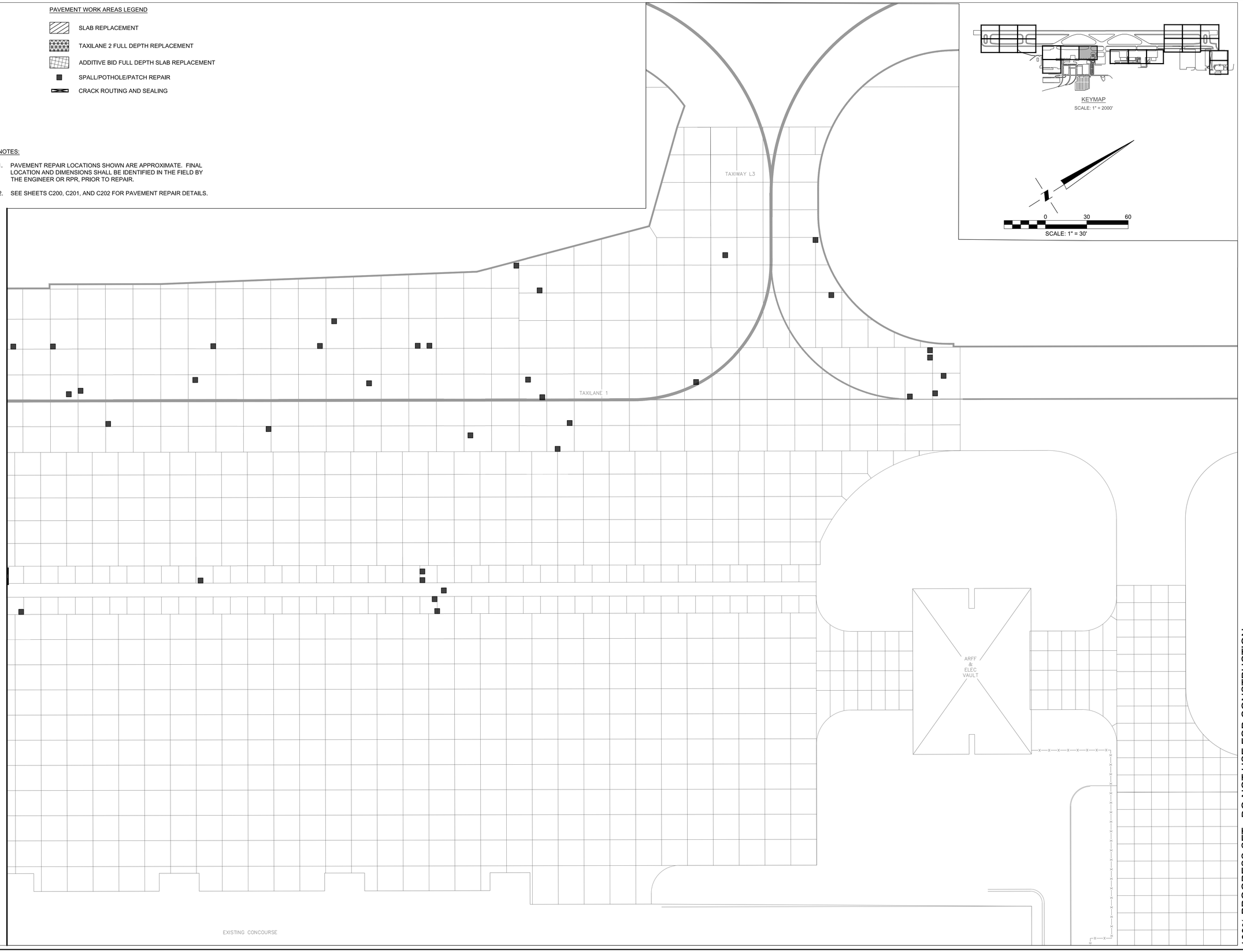

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Feb 24 2022 12:50 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 3

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

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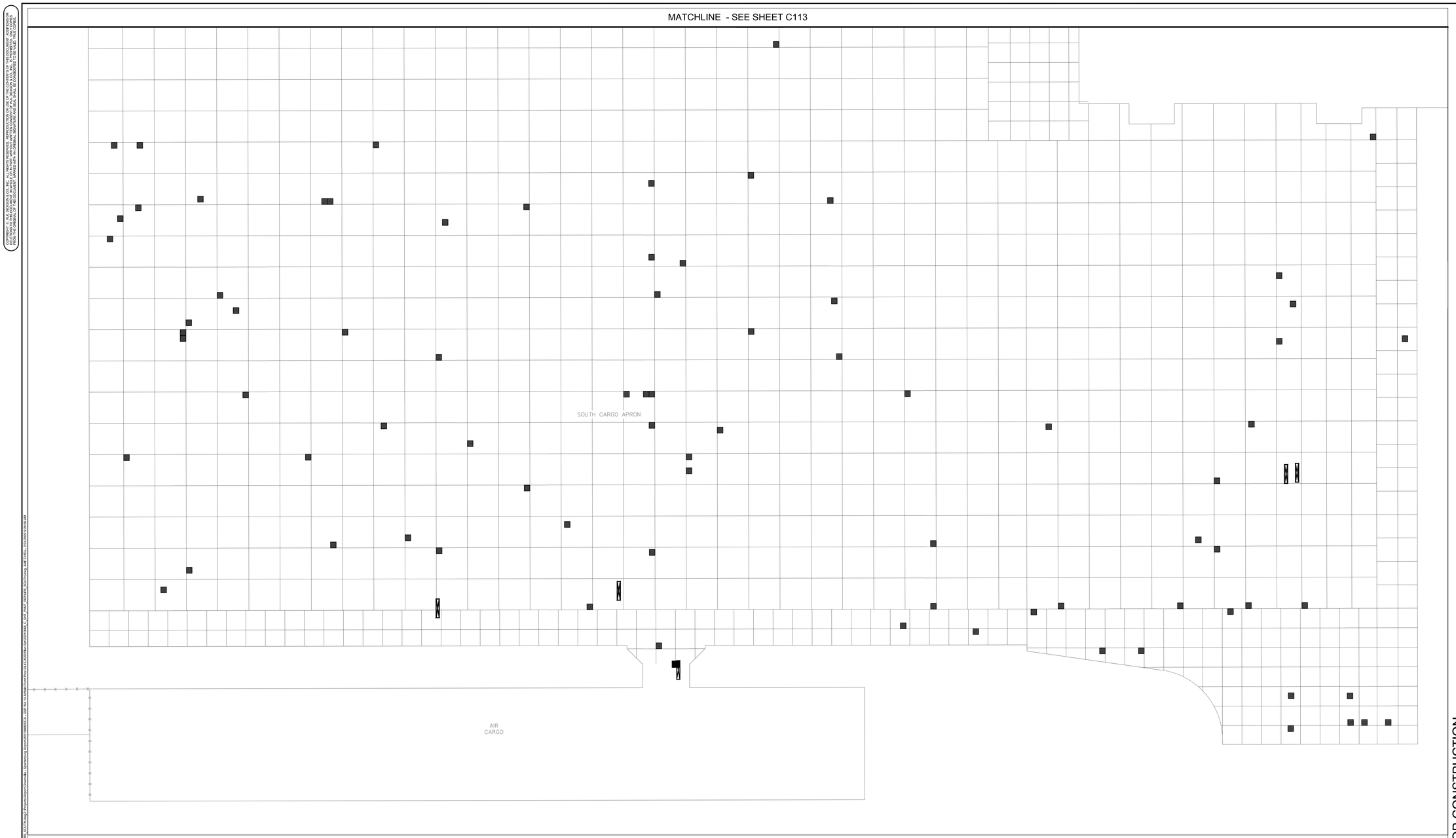

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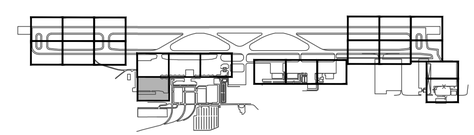
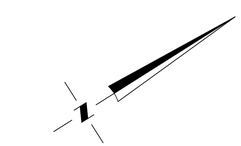
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING



KEYMAP

SCALE: 1" = 2000'



SCALE: 1" = 30'

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No. 31405
CHRISTOPHER J. BIRKMEIER

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PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR SOUTH CARGO APRON - SHEET 4

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C116

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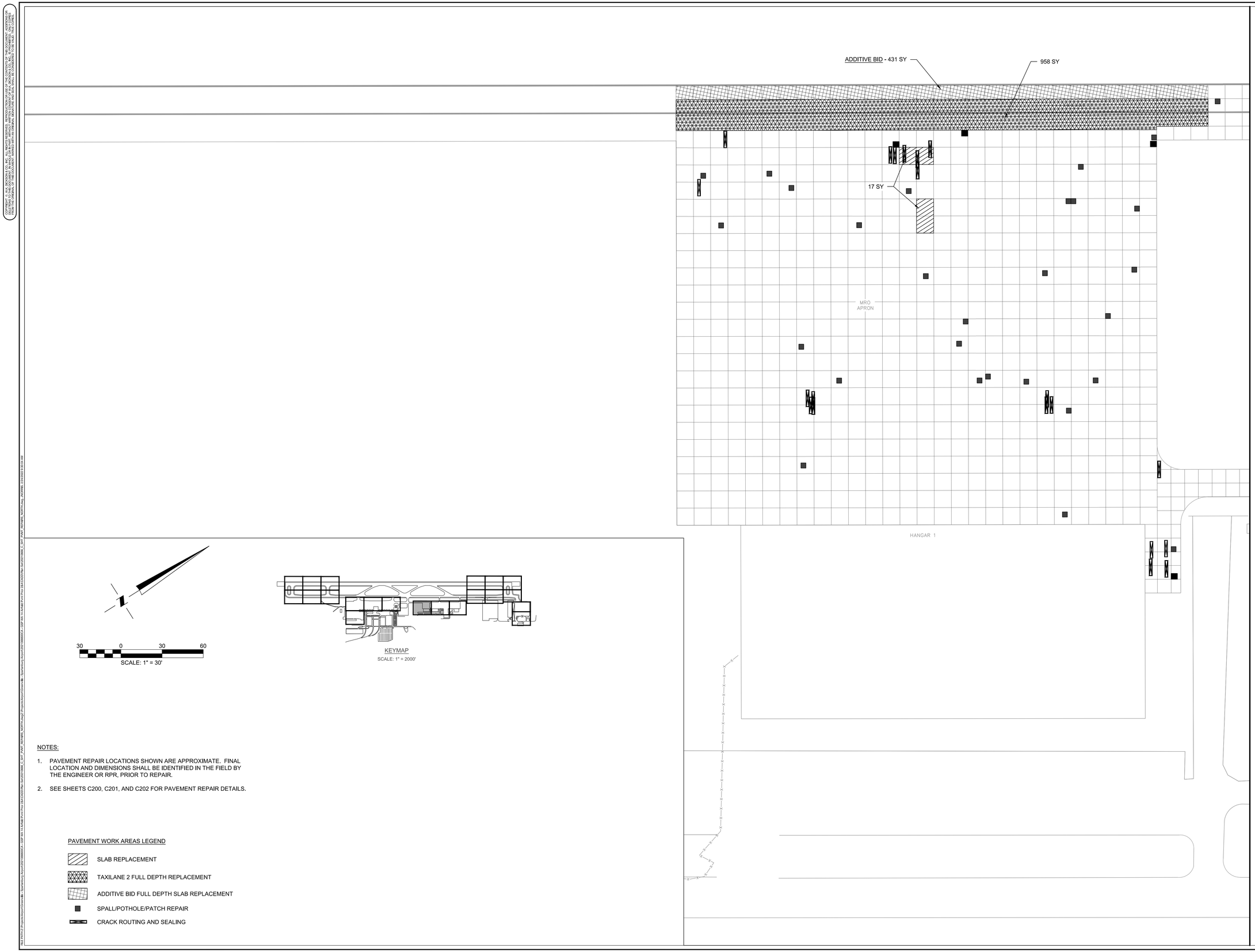

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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR MRO APRON

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
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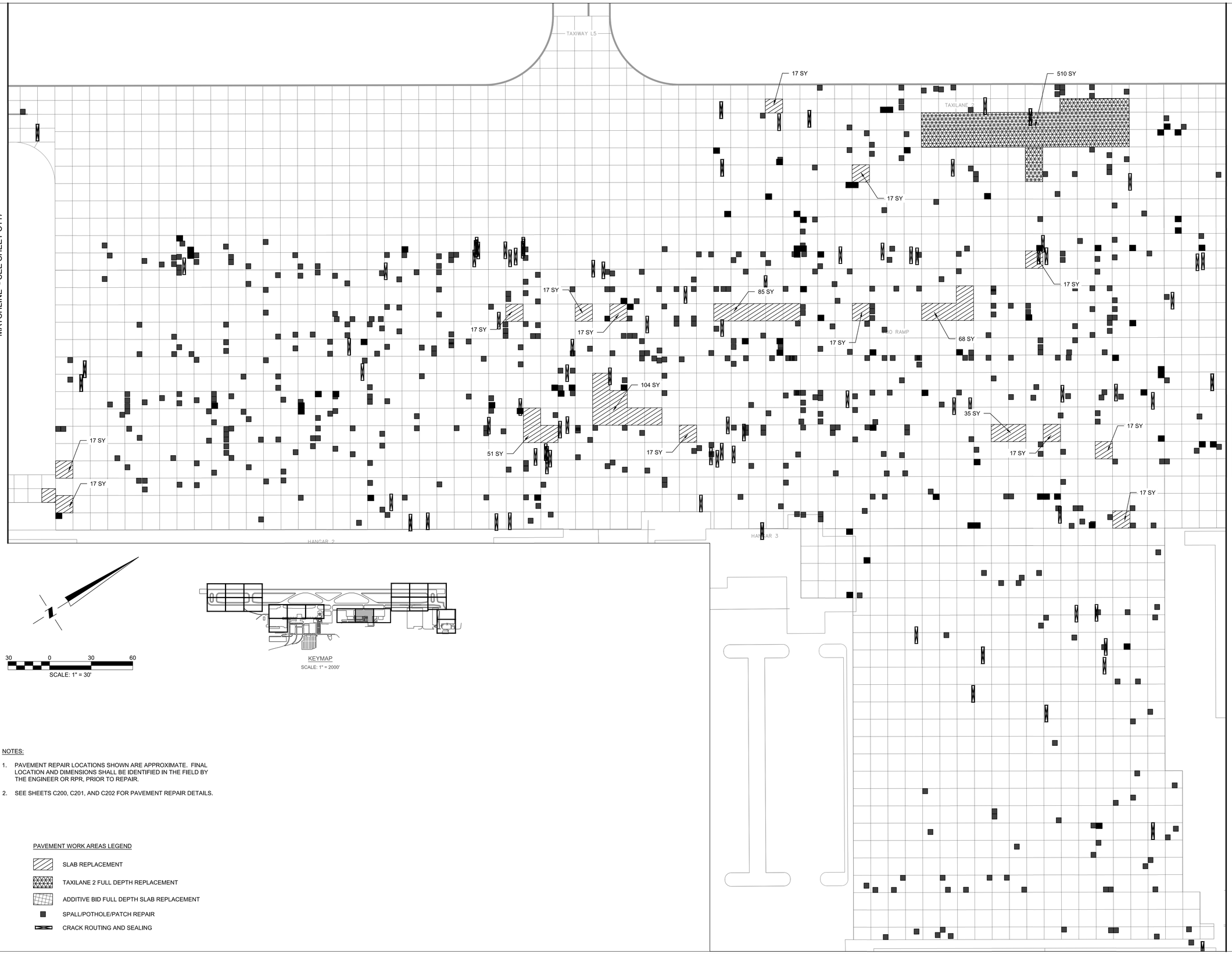

30 0 30 60
SCALE: 1" = 30'

KEYMAP
SCALE: 1" = 2000'

NOTES:

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Feb 24 2022 12:51 PM
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REVISION RECORD

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR FBO RAMP - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
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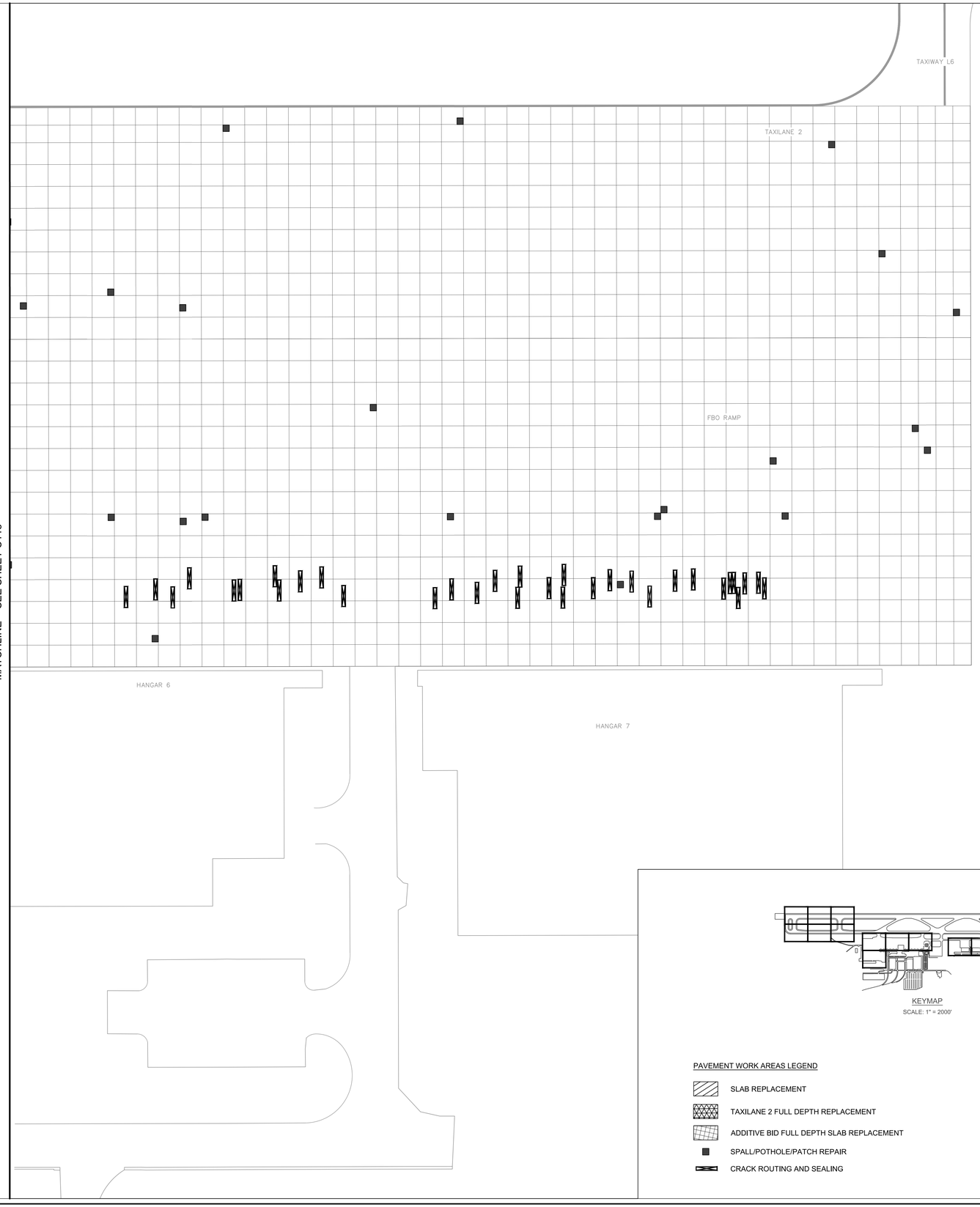

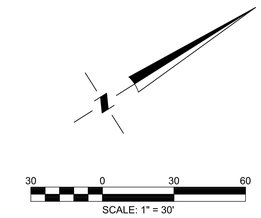

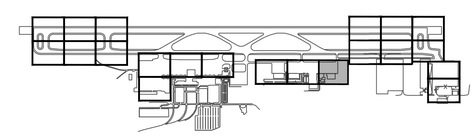

KEYMAP

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Feb 24 2022 12:51 PM
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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR FBO RAMP - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C119

WKD PROJ. NO.:
20210666.00.CA

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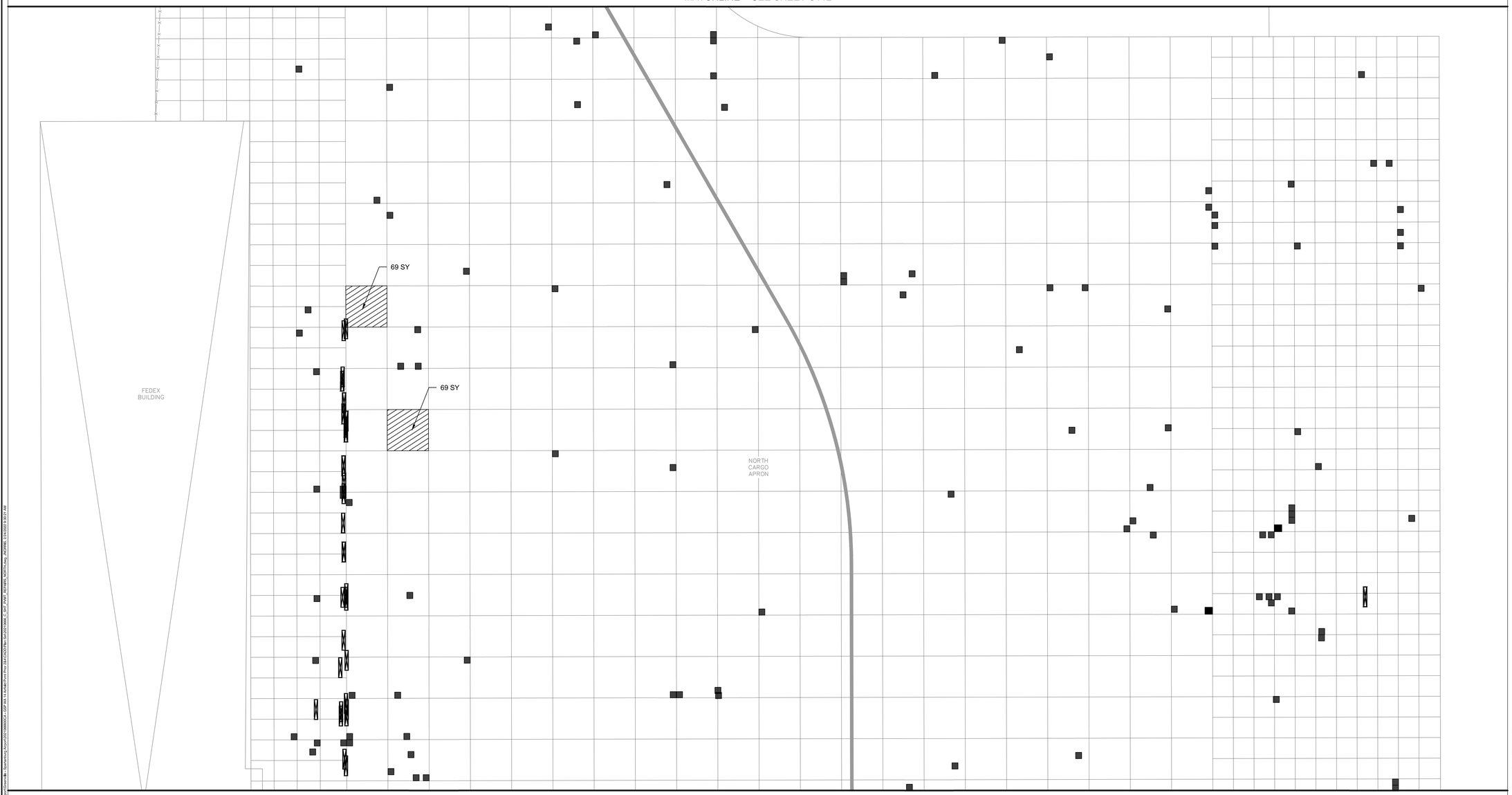
MATCHLINE - SEE SHEET C112



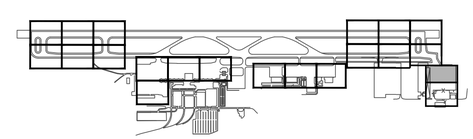
MATCHLINE - SEE SHEET C121

NOTES:

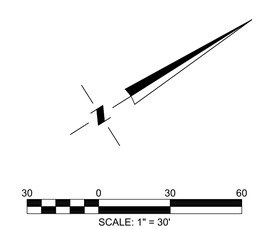
1. PAVEMENT REPAIR LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATION AND DIMENSIONS SHALL BE IDENTIFIED IN THE FIELD BY THE ENGINEER OR RPR, PRIOR TO REPAIR.
2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.

PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING



KEYMAP
SCALE: 1" = 2000'



SCALE: 1" = 30'

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SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. C00177
CERTIFICATE OF AUTHORIZATION
C.O.A.

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRMINGHAM
Feb 24 2022 12:52 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR NORTH CARGO APRON - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C120
WKD PROJ. NO.:
20210666.00.CA

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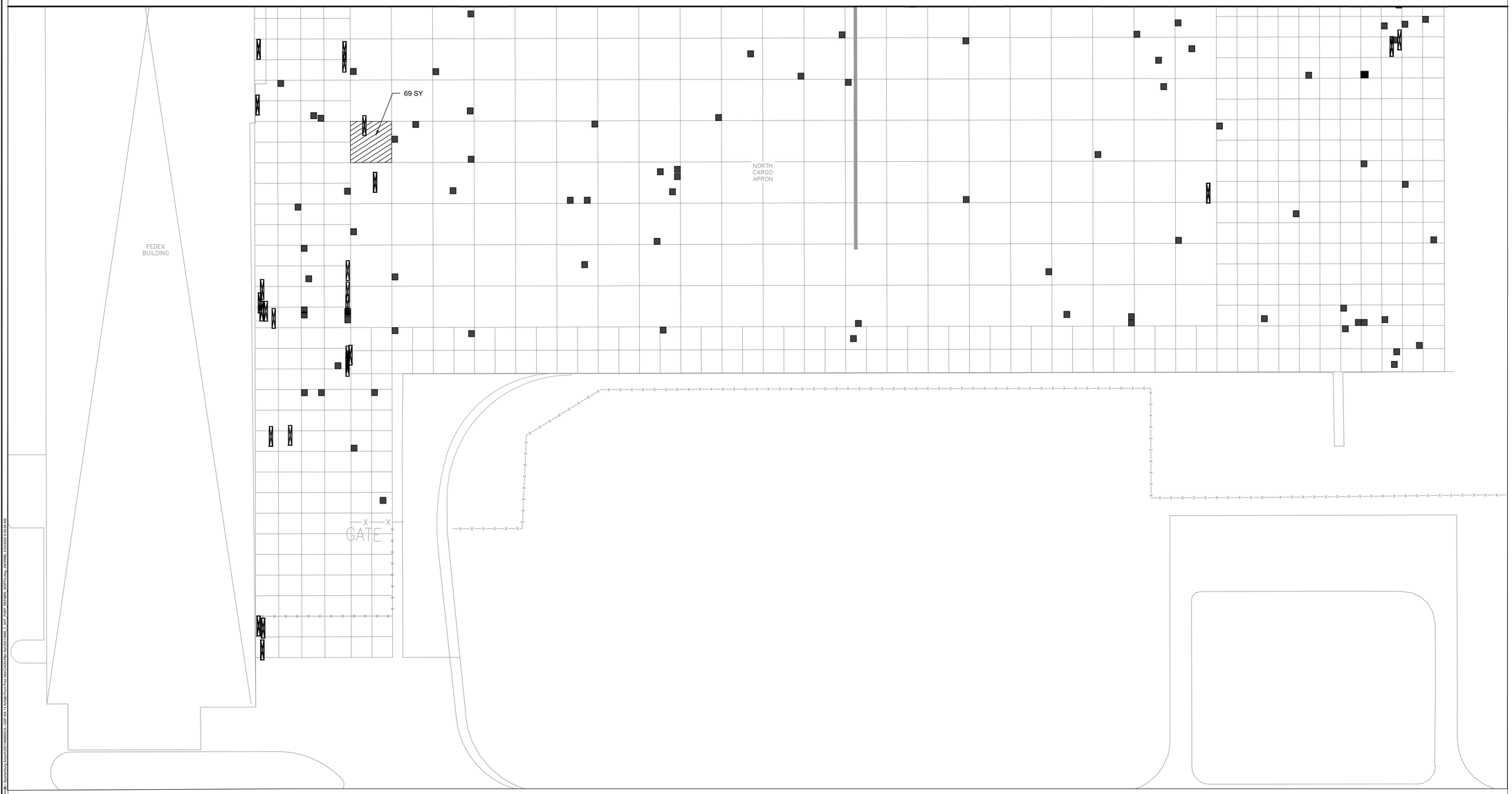
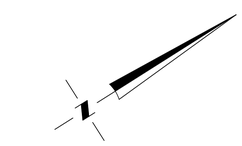
MATCHLINE - SEE SHEET C120





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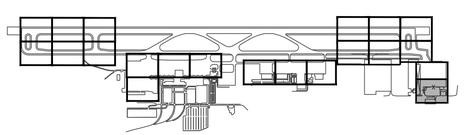
SCALE: 1" = 30'



KEYMAP

SCALE: 1" = 2000'

PAVEMENT WORK AREAS LEGEND

- SLAB REPLACEMENT
- TAXILANE 2 FULL DEPTH REPLACEMENT
- ADDITIVE BID FULL DEPTH SLAB REPLACEMENT
- SPALL/POTHOLE/PATCH REPAIR
- CRACK ROUTING AND SEALING

NOTES:

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2. SEE SHEETS C200, C201, AND C202 FOR PAVEMENT REPAIR DETAILS.

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SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 31405
CHRISTOPHER J. BIRKNER
Feb 24 2022 12:52 PM
PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
REPAIR AREAS FOR NORTH CARGO APRON - SHEET 2

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C121

WKD PROJ. NO.:
20210666.00.CA

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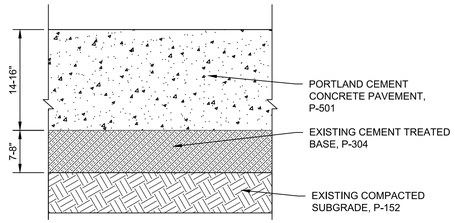
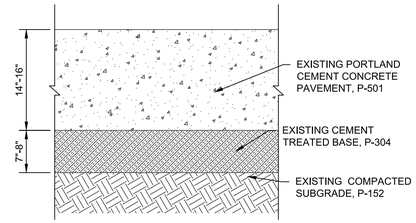


EXISTING RUNWAY/TAXIWAY/TAXILANE 1/CARGO AREAS PCC PAVEMENT REPAIR SECTION

NOT TO SCALE



EXISTING CONCRETE RUNWAY/TAXIWAY/TAXILANE 1/CARGO AREAS PAVEMENT SECTION

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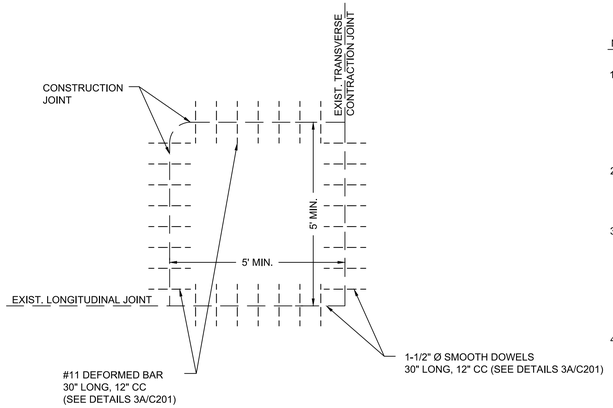
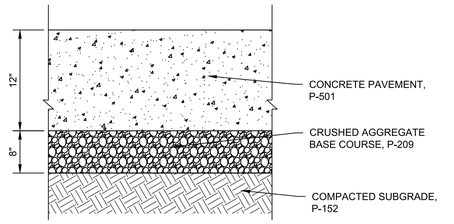


CONCRETE PAVEMENT REPLACEMENT DETAIL

NOT TO SCALE

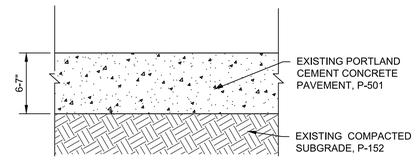
NOTES FOR DOWEL AND TIE BAR HOLE DRILLING AND INSTALLATION:

1. DRILLING AND INSTALLATION METHOD SHALL BE CAPABLE OF MAINTAINING DRILL HOLES AND EMBEDDED BARS: (A) PARALLEL TO THE CONCRETE SURFACE, AND (B) NORMAL TO THE JOINT LINE, WITHIN1/4" AT THE END OF THE DOWEL OR TIE BAR EXCEPT WHERE SPECIFIED OTHERWISE. DRILL HOLES SHALL BE ACCURATELY LAID OUT SO THAT THE MAXIMUM DEVIATION DOES NOT EXCEED 1". DRILL HOLE DIAMETER TO BE APPROXIMATELY 1/8" CLEAR OF BAR ALL AROUND.
2. AFTER THE DRILLING IS COMPLETE AND PRIOR TO INSTALLATION OF THE DOWEL OR TIE BARS, THE HOLES SHALL BE THOROUGHLY CLEANED TO REMOVE DRILLING DUST, CONCRETE CHIPS, AND ANY MATERIAL DETRIMENTAL TO BONDING.
3. EPOXY GEL SHALL BE APPLIED TO THE DOWEL AND SUFFICIENT GEL INJECTED IN THE BACK OF THE TIE BAR HOLE BY A MECHANICAL MIXING/PUMP DEVICE, SO THAT A SLIGHT AMOUNT OF GEL WILL BE FORCED OUT WHEN THE DOWEL OR TIE BAR IS INSERTED AND TAPPED TO THE CORRECT POSITION. IT WILL BE NECESSARY TO TWIST THE BAR BACK AND FORTH SEVERAL TIMES TO ELIMINATE THE AIR ENTRAPPED IN THE HOLE. SMALL WEDGES MAY BE USED TO SUPPORT THE DOWEL OR TIE BAR IN CORRECT ALIGNMENT UNTIL THE GEL HARDENS.
4. EPOXY SHALL MEET THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD FOR TYPE VIII EPOXY GEL.



EXISTING TAXILANE 2 FULL DEPTH PAVEMENT SECTION

NOT TO SCALE



EXISTING TAXILANE 2 / MRO AND FBO RAMP PCC PAVEMENT REPAIR SECTION

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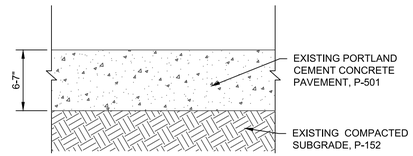
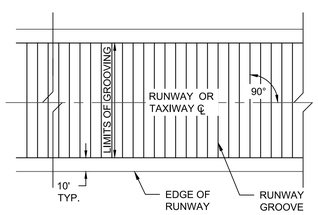
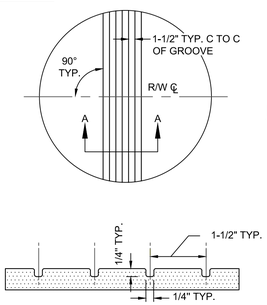


EXISTING TAXILANE 2 / MRO AND FBO RAMP PCC PAVEMENT REPAIR SECTION

NOT TO SCALE



PLAN VIEW

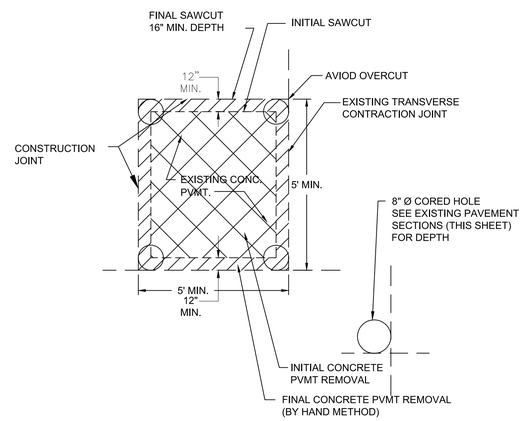


SECTION A-A

NOTE:
1. CONTRACTOR TO ADJUST GROOVE DEPTH AND SPACING TO MATCH EXISTING CONDITIONS.

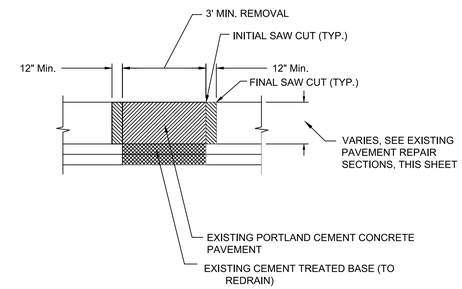
TYPICAL SECTION THROUGH GROOVES

NOT TO SCALE



CONCRETE PAVEMENT REMOVAL DETAIL

NOT TO SCALE

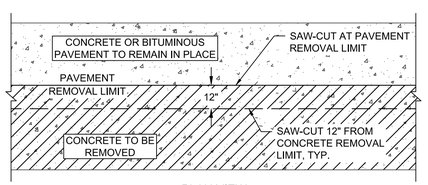


NOTES:

TO MINIMIZE SPALLING AND CHIPPING CAUSED BY BREAKING UP EXISTING CONCRETE, SAW CUTS SHALL BE REQUIRED. THE INITIAL CUTS SHALL BE VARY, SEE EXISTING PAVEMENT REPAIR SECTIONS, THIS SHEET AT LOCATIONS SHOWN IN THE DETAIL. THE EXISTING CONCRETE PAVEMENT SHALL THEN BE BROKEN UP AND REMOVED. THE FINAL CUT SHALL BE 16" MINIMUM SAW CUTS AT THE LOCATIONS SHOWN IN THE DETAIL. THE REMAINING CONCRETE SHALL BE REMOVED WITH EXTREME CARE TO AVOID DAMAGING THE EXISTING CONCRETE EDGE.

JOINT DETAIL NOTES:

1. SEALANT RESERVOIR SIZED TO PROVIDE PROPER SHAPE FACTOR, W/D. FIELD POURED SEALANTS REQUIRE DIFFERENT SHAPE FACTORS FOR OPTIMUM PERFORMANCE, AS RECOMMENDED BY MANUFACTURER.
2. BACKER ROD MATERIAL MUST BE COMPATIBLE WITH THE TYPE OF SEALANT USED AND SIZED TO PROVIDE THE DESIRED SHAPE FACTOR, AS RECOMMENDED BY MANUFACTURER.
3. RECESS SEALER 3/8 INCHES TO 1/2 INCHES FOR JOINTS PERPENDICULAR TO RUNWAY GROOVES.
4. CHAMFERED EDGES ARE REQUIRED FOR NEWLY INSTALLED JOINTS.

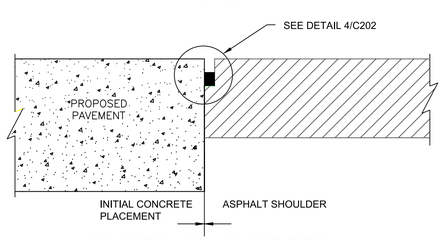


PLAN VIEW

NOTE:
1. ALL COSTS ASSOCIATED WITH DOUBLE SAW-CUTTING SHALL BE INCIDENTAL TO THE "REMOVE EXISTING CONCRETE PAVEMENT" ITEM OF WORK.

DOUBLE SAW-CUT DETAIL

NOT TO SCALE



CONCRETE/ASPHALT JOINT (TYPE J)

NOT TO SCALE

JOINT SEAL PROCEDURE NOTES:

1. IN GENERAL, THE PROCEDURE FOR RESEALING THE JOINT SHALL BE AS FOLLOWS: (ADDITIONAL REQUIREMENTS AND STEPS FOR RESEALING THE EXPANSION JOINTS ARE GIVEN IN SUBSEQUENT SECTIONS OF THE PLANS AND SPECIFICATIONS.)
2. THE BACKER ROD MATERIAL SHALL BE COMPATIBLE WITH THE COLD POURED SEALANT AND SLIGHTLY OVERSIZED TO PREVENT MOVEMENT DURING THE JOINT SEALANT OPERATION.
3. FOR EXPANSION JOINT SEAL REPAIR REPLACE EXISTING SEAL AND BACKER ROD. EXISTING EXPANSION BOARD TO REMAIN.
   A. THE CONTRACTOR SHALL REMOVE THE EXISTING SEALS. THE EXISTING JOINT SEAL AND SEALANT MUST BE REMOVED ENTIRELY TO ULTIMATELY PROVIDE A THOROUGHLY CLEANED SURFACE ON WHICH TO RESEAL. THE EXISTING SEAL IS TO BE REMOVED BY SAW CUTTING BOTH SIDES OF THE PAVEMENT EDGE TO WHICH THE SEAL IS ATTACHED TO THE FULL DEPTH OF THE SEAL AND APPROXIMATELY 1/16" INTO EACH PAVEMENT EDGE. REMOVAL OF EXISTING SEAL IS INCIDENTAL TO THE PRICE OF NEW SEALANT.
   B. ALL SPALLED AND CRACKED SURFACES ADJACENT TO A JOINT WHICH ARE DEEMED UNSATISFACTORY FOR RESEALING BY THE ENGINEER SHALL BE REPAIRED BY THE CONTRACTOR PRIOR TO RESEALING. THE PATCH MATERIAL USED FOR SPALLING REPAIR SHALL BE SPECIFIED IN SPECIFICATIONS SECTION P-505, CONCRETE PAVEMENT SPALL REPAIR.
   C. PAVEMENT JOINT EDGES ARE TO BE SAW CUT BEVELED ON A 1/4" X 1/4" SLOPE, AS SHOWN IN DETAIL 4/C202. NOTE, THE CONTRACTOR SHALL BE REQUIRED TO DEVELOP A MEANS TO CONTAIN THE SLURRY PRODUCED DURING THE BEVELING OPERATIONS. IMMEDIATELY FOLLOWING THE BEVELING THE JOINT OPENING IS TO BE CLEANED BY THE USE OF HIGH PRESSURE WATER BLASTING. THE AREA SHALL THEN BE SWEPT CLEAN BY USE OF A VACUUM SWEEPER. THE BEVELING AND SLURRY CLEANUP OPERATIONS IN CONJUNCTION WITH THE SEAL REMOVAL SHALL CONSTITUTE THE INITIAL CLEANING.
   D. IMMEDIATELY PRECEDING APPLICATION OF THE JOINT SEAL, THE PAVEMENT EDGE WHICH WILL RECEIVE THE NEW JOINT MATERIAL SHALL BE THOROUGHLY CLEANED AND SAND BLASTED. THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A MEANS TO CONTAIN THE SAND DURING THE SAND BLASTING OPERATION SINCE SAND OR ANY FOREIGN OBJECT ON AIRCRAFT PAVEMENT IS DETRIMENTAL TO AIRCRAFT SAFETY. THE METHODS ESTABLISHED TO CONTAIN THE SAND MUST BE APPROVED BY THE ENGINEER PRIOR TO ITS USE UPON COMPLETION OF THE SAND BLASTING OPERATION OR AT INTERVALS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE REQUIRED TO SWEEP THE SAND WITH A VACUUM SWEEPER.
   E. BACKER ROD AS SPECIFIED IN THE SPECIFICATIONS SHALL BE INSTALLED AS CALLED FOR. THE INSTALLATION OF THE BACKER ROD IN CONJUNCTION WITH THE SANDBLASTING OPERATION SHALL CONSTITUTE THE FINAL JOINT PREPARATION
   F. THE JOINT SEAL AS CALLED FOR IN THE SPECIFICATIONS SHALL THEN BE APPLIED. AS A PRECAUTION TO ENSURE THAT PAVEMENT IS MOISTURE FREE, THE CONTRACTOR SHALL HAVE AT HIS DISPOSAL ON SITE, PRIOR TO THE ACTUAL SEALING OPERATION. A NON-RESIDUAL HEATER/BLOWER UNIT PER SEALING CREW TO DRY THE PAVEMENT

CRACK REPAIR NOTES:

1. PREPARATION FOR CONCRETE PAVEMENT CRACK ROUTING AND SEALING SHALL BE COMPLETED BY PROPERLY ROUTING THE CRACK TO BE SLIGHTLY LOWER THAN THE EXISTING CRACK TO ENSURE PROPER ADHESION TO THE SIDEWALLS. THE CRACKS SHOULD BE ROUTED OUT TO PROVIDE A MINIMUM SEALANT RESERVOIR 3/8". THICKNESS AND DEPTH BELOW THE PAVEMENT SURFACE SHALL BE AS SPECIFIED FOR JOINT SEALANT.
2. CRACKS SHOULD BE FREE OF DIRT, DUST, AND MOISTURE, AND SHOULD BE FROST FREE. WIRE BRUSHING OR COMPRESSED AIR SHOULD CLEAN THEM AND A HEAT LANCE MAY BE USED TO DRY THE SURFACES.

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C.O.A.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BRYANT

Feb 24 2022 12:52 PM

PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

100% PROGRESS SET - DO NOT USE FOR CONSTRUCTION

PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
SLAB REPLACEMENT DETAILS - SHEET 1

PROJ. MGR.:	CJB
DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

DRAWING NUMBER:
C200

WKD PROJ. NO.:
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WORK SEQUENCE

STEP 1.

1. SAW CUT SLAB INTO NINE (FULL SLAB) OR THREE (HALF SLAB) PIECES AS CALLED FOR (SEE DETAILS NO. 1A AND 1B). QUARTER SLABS MAY BE CUT IN HALF.
2. DRILL LIFT HOLES
3. CONTRACTOR MAY REMOVE SLAB PORTIONS BY BREAKING IN PLACE AFTER SAW CUTTING. ANY DAMAGE TO EXISTING CTB (CEMENT-TREATED BASE) OR EXISTING CONCRETE THAT IS TO REMAIN SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

STEP 2.

1. REMOVE SLAB USING LIFTING HOLES OR BREAKING IN PLACE- WASTE OFFSITE. BREAKING OF SLABS IN PLACE BEFORE REMOVAL WILL BE PERMITTED SO LONG AS DAMAGE TO CTB DOES NOT OCCUR. THE ENGINEER SHALL DETERMINE WHETHER OR NOT BREAKING SLABS IN PLACE IS DAMAGING CTB.
2. REPAIR EXISTING CEMENT-TREATED BASE (CTB) DAMAGED DURING SLAB REMOVAL WITH 2500PSI CONCRETE. REPAIR ADJACENT SLAB CONCRETE EDGES WITH HIGH EARLY STRENGTH GROUT (LOW SHRINKAGE).
3. DRILL HOLES FOR DOWELS (1-1/2"Ø FOR SMOOTH DOWELS, #11 FOR DEFORMED X 20" @ 12" O.C.) IN ALL ADJACENT SLABS (SEE DETAIL NO. 2)
4. CONTRACTOR SHALL HAVE AVAILABLE A MINIMUM OF FOUR TEMPORARY PRE CAST SLABS TO BE USED IF REQUIRED. THE USE SHALL BE DETERMINED BY THE ENGINEER.
   - LEVEL WITH THIN LAYER OF SAND (NO MORE THAN 1/4" THICKNESS) AS NEEDED. MAXIMUM SURFACE TOLERANCE BETWEEN PRECAST SLAB AND SURROUNDING SLABS IS 1/4".

STEP 3.

1. REMOVE TEMPORARY PRE CAST SLABS (IF USED)
2. SET DOWELS IN PRE DRILLED HOLES WITH EPOXY (SEE DETAIL NO. 3 AND 3A)
3. POUR HIGH EARLY STRENGTH CONCRETE (P-501)

STEP 4.

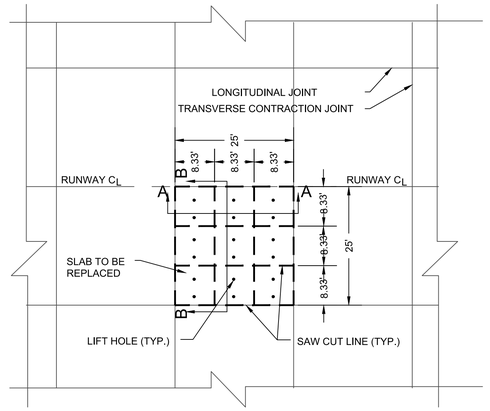
1. SAW CUT AND SEAL JOINTS AROUND ENTIRE PERIMETER OF NEW SLAB (SEE DETAIL NO. 4).

STEP 5.

1. REPLACE EXISTING MARKINGS. ALL NEW STRIPING SHALL HAVE A BLACK 6" BORDER.

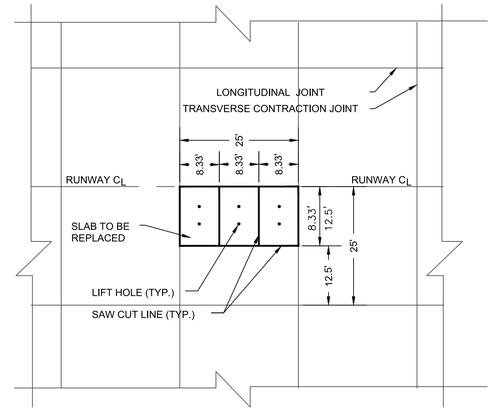
ADDITIONAL NOTES:

1. WHERE ADJOINING SLABS ARE TO BE REPLACED SEE DETAIL 5. ALTERNATING ("PILOT") SLABS ARE TO BE REPLACED IN THEIR ENTIRETY BEFORE REPLACING THE REMAINING ("FILL IN") SLABS. DOWELS WILL NOT BE PLACED IN "NEW JOINTS" UNTIL "FILL IN" SLABS ARE REPLACED. PLACING "FILL IN" SLABS SHALL FOLLOW IMMEDIATELY AFTER COMPLETION OF "PILOT" SLABS. SAWCUTTING AND SEALING JOINTS SHALL BE DONE ONLY AFTER ALL ADJOINING SLABS IN A SINGLE LOCATION ARE COMPLETED.



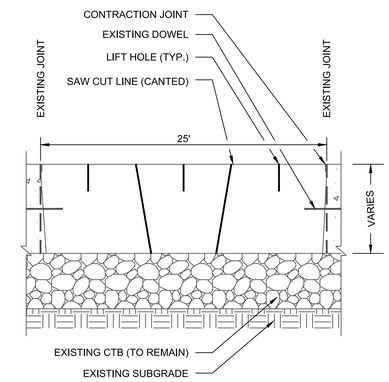
DETAIL NO. 1A SAWCUTTING EXISTING FULL SLAB

NOT TO SCALE



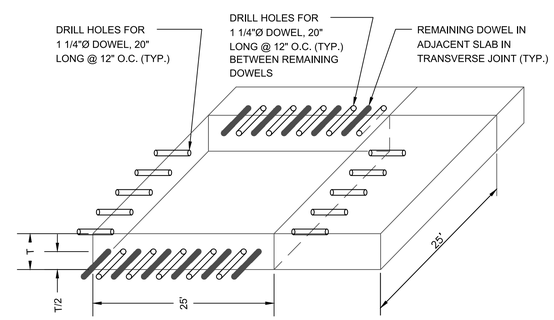
DETAIL NO. 1B SAWCUTTING EXISTING HALF OR QUARTER SLAB

NOT TO SCALE



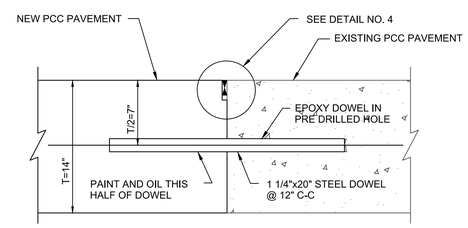
SECTION A-A AND B-B SAWCUTTING

NOT TO SCALE



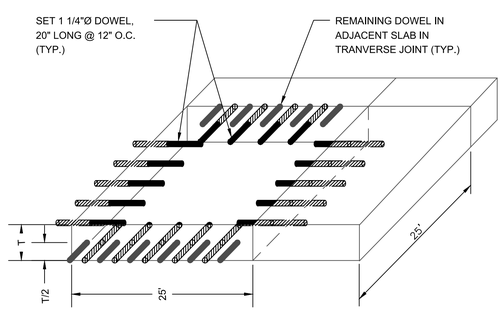
DETAIL NO. 2 DOWEL DRILLING

NOT TO SCALE



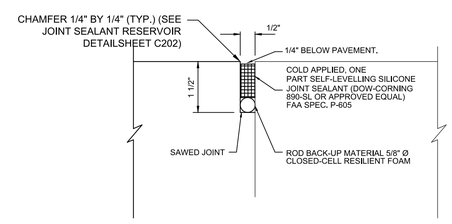
DOWELED CONSTRUCTION JOINT DETAIL NO. 3A

NOT TO SCALE



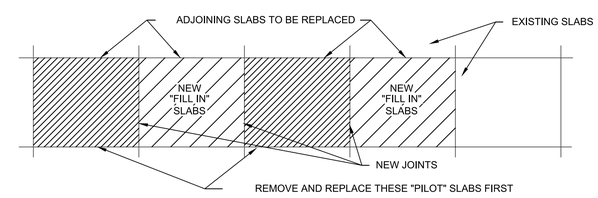
SETTING NEW DOWELS DETAIL NO. 3

NOT TO SCALE



JOINT SAWCUTTING AND SEALING DETAIL NO. 4

NOT TO SCALE



CONSTRUCTION SEQUENCE-ADJOINING SLAB REPLACEMENT DETAIL NO. 5

NOT TO SCALE

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SOUTH CAROLINA PROFESSIONAL ENGINEER No. 31405 CHRISTOPHER J. BRYNCZKA

Feb 24 2022 12:53 PM

PROFESSIONAL SEAL

REVISION RECORD

NO.	DATE	DESCRIPTION	BY

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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
SLAB REPLACEMENT DETAILS - SHEET 2

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DESIGN BY:	TJC
DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

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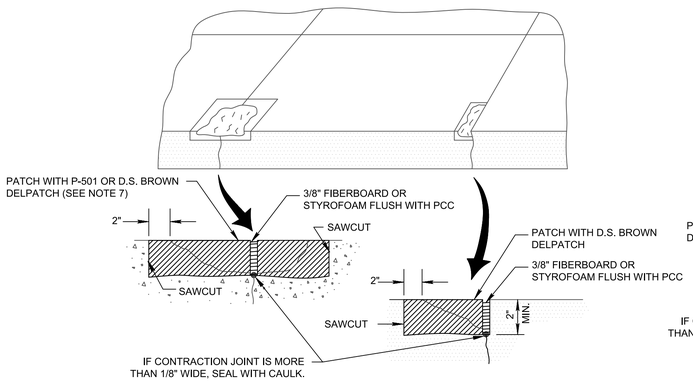
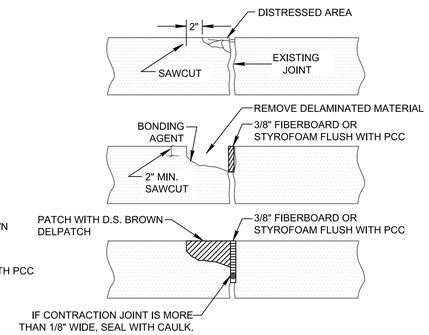
REPAIR FOR SPALLS LESS THAN 2" DEEP

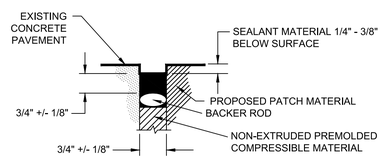


REPAIR FOR SPALLS GREATER THAN 2" DEEP



SPALL REPAIR NOTES:

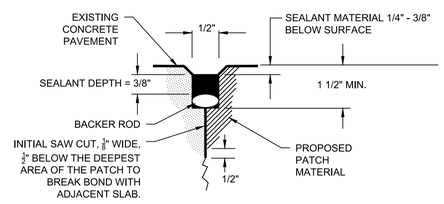
1. MAKE VERTICAL SAWCUT MIN. 2" DEEP APROX. 2" FROM DISTRESSED AREA.
2. MINIMUM PATCH LENGTH AND WIDTH WITHIN A PCC SLAB IS 12" AND 6" RESPECTIVELY.
3. SPALL AREAS WITHIN A COMMON PCC SLAB THAT ARE LESS THAN 2 FT APART SHALL BE COMBINED AND REPAIRED WITH ONE COMMON PATCH. AREAS ON ADJACENT SLABS SHALL NOT BE COMBINED.
4. REMOVE ALL CONCRETE AND LOOSE MATERIAL WITHIN SAWED AREA TO A MINIMUM 1/2" BELOW SOUND CONCRETE AND SANDBLAST ALL AREAS.
5. PLACE STYROFOAM OR FIBERBOARD (3/8" THICK) ON THE ADJACENT SLAB VERTICAL FACE TO PREVENT BONDING WITH THE PATCH MATERIAL.
6. USE A PRIMER AGENT TO INSURE GOOD ADHESION BETWEEN EXISTING PAVEMENT AND PATCH.
7. MIX AND PATCH WITH D.S. BROWN DELPATCH OR APPROVED EQUAL FOR NIGHT WORK ONLY. CONTRACTOR SHALL SUBMIT, FOR REVIEW BY ENGINEER, MATERIAL CUT SHEETS FOR D.S. BROWN DELPATCH OR APPROVED EQUAL PRIOR TO STARTING WORK.
8. AFTER THE APPLIED PATCH MATERIAL HAS CURED, SAWCUT STYROFOAM OR FIBERBOARD FOR JOINT RESERVOIR AND APPLY BACKER ROD AND JOINT SEALANT. JOINT RE-SEALING SHALL EXTEND AT LEAST 6 INCHES BEYOND THE LIMIT OF THE PATCH.
9. IN LIEU PLACING STYROFOAM OR FIBERBOARD AS DESCRIBED IN NOTE 5, THE CONTRACTOR MAY POUR THE PATCH MATERIAL DIRECTLY AGAINST THE ADJACENT SLAB. ONCE CURED, THE CONTRACTOR SHALL MAKE AND INITIAL SAWCUT ON THE JOINT WITH A $\frac{3}{8}$" THICK BLADE AT A DEPTH EQUAL TO THE DEEPEST AREA OF THE PATCH PLUS $\frac{1}{2}$". ONCE THIS SAWCUT IS COMPLETE THE CONTRACTOR SHALL SAW CUT THE JOINT RESERVOIR AND RE-SEAL THE JOINT AS DESCRIBED IN NOTE 8.
10. SPALL REPAIRS SHALL BE MEASURED BY THE CUBIC FOOT (LENGTH x WIDTH x AVERAGE DEPTH) OF PATCH MATERIAL IN PLACE, COMPLETED AND ACCEPTED. PAYMENT FOR SPALL REPAIRS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER CUBIC FOOT. THE PRICE SHALL BE FULL COMPENSATION FOR FURNISHING ALL EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM.
11. SPALL REPAIR LIMITS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY CUTTING OR REMOVAL. REPAIR DEPTH MAY VARY BEYOND 6 INCHES. EXISTING SPALLED CONCRETE SHALL BE REMOVED TO SOUND CONCRETE. WITH ENGINEER'S APPROVAL, PRE-SAWING MAY BE PERMITTED AS FOLLOWS:
    A. TAXIWAYS MAY BE PRESAWED 48 HOURS IN ADVANCE OF SPALL REPAIR CONSTRUCTION.
    B. RUNWAYS MAY BE PRESAWED 24 HOURS IN ADVANCE OF SPALL REPAIR CONSTRUCTION.
    C. CONTRACTOR TO HAVE REPAIR MATERIALS ON SITE DURING SAW CUTTING.
12. JOINT SEAL INSTALLATION AROUND SPALL REPAIRS SHALL BE ACCOMPLISHED IMMEDIATELY AFTER SPALL REPAIRS ARE COMPLETED AND CURED.
13. SPALL REPAIR WORK WILL BE SCHEDULED NOT ONLY TO OBTAIN THE 450 PSI STRENGTH REQUIRED FOR OPENING TO AIRCRAFT TRAFFIC BUT ALSO TO PROVIDE SUFFICIENT TIME TO CURE AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
14. ELECTRICAL CONTRACTOR SHALL BE ON SITE DURING SAW CUTTING, REMOVAL, AND REPLACEMENT OF CONCRETE SPALLS WITHIN 3 FEET OF IN-PAVEMENT ELECTRICAL ITEMS.
15. CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH AIRPORT MAINTENANCE TO LOCK OUT AFFECTED ELECTRICAL CIRCUITS AND RE-ENERGIZE CIRCUITS.
16. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS



JOINT SEALANT RESERVOIR DETAIL AT EXISTING ISOLATION JOINT

NOT TO SCALE

NOTE:
ISOLATION JOINTS WILL HAVE EXISTING FIBERBOARD BETWEEN THE SLABS. FIBERBOARD DAMAGED DURING THE SPALL REPAIR PREPARATION SHALL BE REPLACED PRIOR TO PLACING THE PATCH MATERIAL.



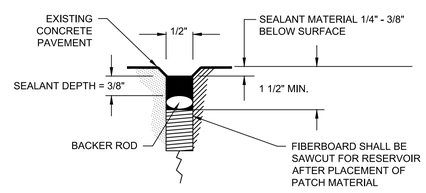
JOINT SEALANT RESERVOIR DETAIL AT EXISTING CONTRACTION JOINT (WITHOUT USE OF FIBERBOARD)

NOT TO SCALE

NOTE:
THIS DETAIL FOLLOWS THE PLACEMENT OF PATCH MATERIAL DIRECTLY AGAINST THE ADJACENT SLAB AS DESCRIBED IN THE SPALL REPAIR NOTE #9.

JOINT DETAIL NOTES:

1. BACKER ROD MATERIAL MUST BE COMPATIBLE WITH THE TYPE OF SEALANT USED AND SIZED TO PROVIDE THE DESIRED SHAPE FACTOR, AS RECOMMENDED BY MANUFACTURER.



JOINT SEALANT RESERVOIR DETAIL AT EXISTING CONTRACTION JOINT (WITH USE OF FIBERBOARD)

NOT TO SCALE

NOTE:
THIS DETAIL FOLLOWS THE PLACEMENT OF FIBERBOARD OR STYROFOAM TO SERVE AS A BOND BREAKER AS DESCRIBED IN THE SPALL REPAIR NOTE #5.

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CHRISTOPHER J. BIRKSHIRE
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PROJECT NAME:
AIRFIELD PAVEMENT IMPROVEMENT PRIORITIES 2 & 4
FOR THE
GREENVILLE-SPARTANBURG AIRPORT DISTRICT
GREER, SOUTH CAROLINA

DRAWING TITLE:
SPALL, CRACK REPAIR DETAILS

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DRAWN BY:	ATM/DJW
PROJ. DATE:	FEB. 2022

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