

ADDENDUM NO.1

Issue Date: May 3, 2023  
By Texas Department of Transportation  
Aviation Division

Dallas Executive Airport

TxDOT CSJ No. 2318DALAS

The following revisions and clarifications are to be incorporated into your bid for the above referenced project. Acknowledgment of receipt of this addendum is required on the signature page of the bid form. Failure to acknowledge all addenda could render your bid out of form and result in a non-responsive bid.

See attached Addendum No. 1 document.



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Suite 850  
Dallas, TX 75254  
TEL 214.451.2950  
[www.GarverUSA.com](http://www.GarverUSA.com)

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## ADDENDUM NO. 1

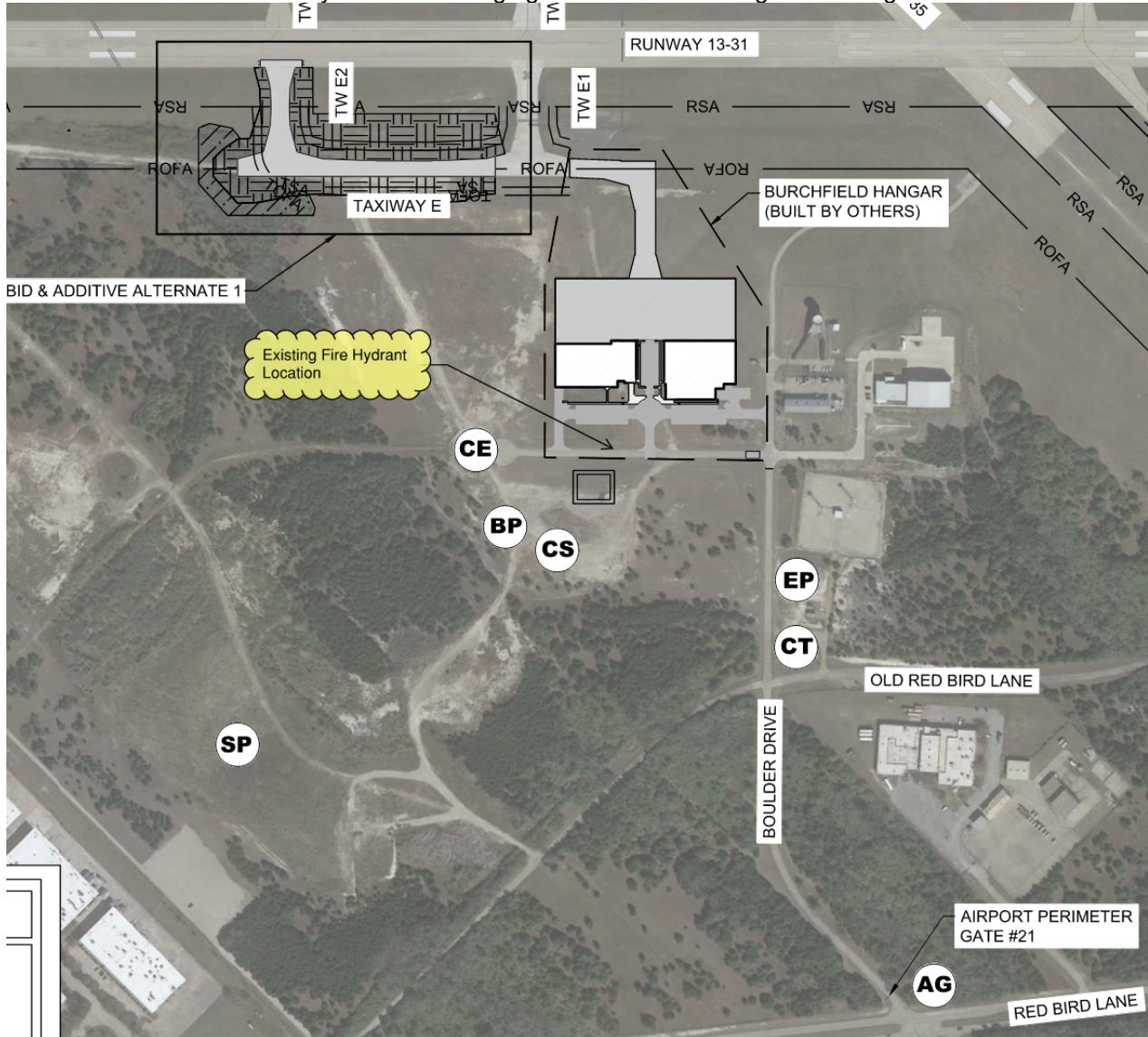
**Date:** May 1, 2023  
**Project Name:** Taxiway E Extension – Phase I  
**Owner:** Dallas Executive Airport  
**TxDOT CSJ No.:** 2318DALAS  
**Garver Project No.** 23A11120

This addendum shall be a part of the Plans, Contract Documents and Specifications to the same extent as though it were originally included therein, and it shall supersede anything contained in the Plans, Contract Documents, and Specifications with which it might conflict. This addendum, including all attachments, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract has not been changed as noted in this addendum. Acknowledgement of receipt of this Addendum must be provided on TxDOT Bid Form page 4 included in the Contract Documents.

### **Questions asked prior to the Pre-Bid Meeting Include:**

1. Regarding Embankment (Borrow) Select Fill is the (PI) 5-15 and the (LL) 30 or less? Is that the requirement?
  - That is correct. Borrowed material used for embankment shall have a PI between 5-15 and an LL of 30 or less.
2. What is the name of the supplier that makes P-208 Aggregate Base Course material?
  - The recent supplier Garver worked with is Knife River.
3. It is my understanding from the pre-bid conference that the question deadline will expire prior to the issuance of any addendum(s). That doesn't allow for additional questions that may be generated by said addendum(s). Please consider extending the questions deadline to allow for questions that may be generated by the issuance of any addendum(s). And, as the TXDOT Highway letting is next week, a push of the bid date may also be beneficial.
  - The bid opening has been changed: Bids will be received until 3:30 PM, May 17, 2023, then publicly opened and read – any bid received after closing time will be returned unopened. Deadline for addendums will be posted one week prior to bid opening.
4. Page 6 in the plans under Item 5 (Contractor Access) states “All material deliveries shall be received in the staging area reserved by the contractor. No Delivery trucks will be allowed access to a secured area of the airport beyond this staging area”. Does this mean that even with contractor supervision, haul vehicles cannot dump material in the Phase A project area?
  - The contractor may provide a badged escort for construction vehicles to dump material beyond the staging area into the construction phasing areas.
5. Does the contractor have to provide a temporary field office for the Engineer/RPR as stated under Item C-105 Mobilization 105-4.1 (Engineer/RPR field office).
  - No, please see the attached C-105 for changes to the requirements for field offices.

6. Will the contractor have access to a water source (ex. Fire hydrant) inside of the airport?
- The closest fire hydrant to the staging area is located along the existing Boulder Drive



**Revisions or additions made to the Contract Documents and Plans:**

**A. Specifications**

1. Remove "SS-102 Construction Safety and Security" in its entirety and replace with attached "SS-102 Construction Safety and Security" – Addendum No. 1. Changes include:
  - Revised Section SS-120-2.1 to specify the use of lighted Runway closure X's.
2. Remove "C-100 Contractor Quality Control Program (CQCP)" in its entirety and replace with attached "C-100 Contractor Quality Control Program (CQCP)" – Addendum No. 1. Changes include:
  - Revised CQCP procedure to meet TxDOT Aviation standards.

3. Remove "C-105 Mobilization" in its entirety and replace with attached "C-105 Mobilization" – Addendum No. 1. Changes include:
  - Revised Section 105-4.1 to clarify that onsite field offices are optional.

**B. Plans**

1. Updated contract time chart and identified that construction drawings show TDG3 ultimate conditions on sheets "GC- 003 Construction Safety and Phasing Plan – Overview", "GC-101 Construction Safety and Phasing Plan – Phase A", "GC-201 Construction Safety and Phasing Plan – Phase B1", and "GC-202 Construction Safety and Phasing Plan – Phase B2"
2. Updated Detail 3, Sheet "GC-401 Construction Safety and Phasing Details 1" to remove "Closed Runway Marker" detail and replace with "Portable Lighted Runway Closure Marker (Lighted X)" detail.
3. Added table of taxiway lane widths for TDG2 and TDG3 on sheet "CP-001 Typical Sections"

By: 

Sara Andrews, P.E.  
Project Manager



**Attachments:**

1. Pre-Bid Meeting Minutes
2. SS-120 Construction Safety and Security
3. C-100 Contractor Quality Control Program (CQCP)
4. C-105 Mobilization
5. GC- 003 Construction Safety and Phasing Plan – Overview
6. GC-101 Construction Safety and Phasing Plan – Phase A
7. GC-201 Construction Safety and Phasing Plan – Phase B1
8. GC-202 Construction Safety and Phasing Plan – Phase B2
9. GC-401 Construction Safety and Phasing Details 1
10. CP-001 Typical Sections



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## MEETING MINUTES

**To:** Attendees  
**From:** Sara Andrews, PE  
Tonjanika Robinson, PE  
**RE:** Dallas Executive Airport  
Taxiway E Extension Phase I  
Pre-Bid Meeting Minutes

**Date:** May 1, 2023

**Copies To:** Attendees

On Wednesday, April 26, 2023 at 10:00am, a pre-bid meeting for the Taxiway E Extension Phase I project was held in the Business Conference Center at the Dallas Executive Airport. The following items were discussed:

### 1) Introductions & Roles

- a) See attached Sign-In Sheet

### 2) Bidding Procedures

- a) Sealed bids need to be addressed and delivered to Rafael Garza, Airport Manager, 5303 Challenger Drive, Dallas, Texas 75237. *Posted with Addendum No. 1: Bids will be received until 3:30 PM on Wednesday, May 17<sup>th</sup>, 2023, then publicly opened and read.*
- b) Technical questions concerning the specifications and plans should be directed to Mitchell McAnally, PE, PMP at [MRMcAnally@GarverUSA.com](mailto:MRMcAnally@GarverUSA.com) or 214-619-9023.
- c) *Posted with Addendum No. 1: Deadline for addendums will be posted one week prior to bid opening.*
- d) Required Documents
  - i. Bid Form
  - ii. Bid Bond (2%)
  - iii. Required Language in Proposals for AIP Contracts
  - iv. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
  - v. Certification of Bidder Regarding Equal Employment Opportunity
  - vi. DBE Participation Plan (see Section 3, Federal Provisions)
- e) Instructions to Bidders
- f) Bid Proposal
  - i. **Contract Time: 180 Calendar Days**
    - Base Bid: Proposed Taxiway E & E2 Improvements - Taxiway Design Group 2 Width (TDG2)
    - Additive Alternate 1: Proposed Taxiway E & E2 Improvements - Taxiway Design Group 3 Width (TDG3)
      - No Additional time will be awarded for Additive Alternate 1
  - ii. \$1,500 Liquidated Damages per calendar day
  - iii. An Addendum will be issued to include the pre-bid meeting minutes, sign-in sheet, and pre-bid questions.

### 3) Federal Provisions

- a) The DBE goal is **8%**

- iv. DBE Participation Plan to include but not limited to: (no later than 5 calendar days from bid opening):
  - 1) DBE Commitment Agreement Form No. SMS.4901
  - 2) DBE Program Material/Supplier Form No. SMS.4901-MS
  - 3) DBE Trucking Commitment Form No. SMS.4901-T.

Please download the appropriate DBE Commitment Agreement or Good faith effort form from the TxDOT website at:

<http://www.txdot.gov/business/partnerships/dbe-forms.html>

There are three available DBE commitment forms. You must pick which commitment applies to your subcontract agreement. Then you and your DBE/s must complete the form and return it with the signed DBE plan by the required date.

- 4) Form 4000 Contractor's Certification Good Faith Effort (**if unable to meet specified goal**)

- b) Questions regarding goals and Good Faith Efforts should be directed to Eli Lopez at [Eli.Lopez@txdot.gov](mailto:Eli.Lopez@txdot.gov).
- c) Contractor shall follow all Davis Bacon Wage Rate Requirements
- d) Contractor shall follow all Buy American clauses.

#### **4) TxDOT General Provisions**

- a) General Provisions are provided in a standalone publication entitled General Provisions.
- b) Electronic copies are available on TxDOT Aviation website.
  - v. <http://www.txdot.gov/inside-txdot/division/aviation/general-provisions.html>
- c) Contractors shall pay close attention to Section 100 in the General Provisions regarding Contractor Quality Control Program and Contractor Quality Control Testing.
  - vi. The contractor is required to prepare a quality control program following the specifications where it is required.
  - vii. Owner will perform quality assurance (QA) testing on all materials.
- d) Any failed tests performed by the QA lab will be deducted from the contractor.

#### **5) Construction Plans**

- a) Airport Safety and Security
- b) Project Layout
- c) Safety and Phasing
  - viii. Phase A (180 Calendar Days)
    - Consists of all work outside Runway 13-31 Safety Area (RSA)
  - ix. Phase B (30 Calendar Days, Concurrent with Phase A)
    - Phase B1 (30 Calendar Days)
      - Consists of classifying Runway 13-31 as a B-II to reduce RSA width
      - All work outside B-II RSA limits (Same as Runway pavement width)
    - Phase B2 (10 Calendar Days)
      - Consists of Runway shoulder reconstruction work during a scheduled **Runway 13-31 Closure**

#### **6) Technical Specifications**

- a) SS-120 Construction Safety and Security
- b) SS-272 Erosion Control Matting
- c) C-100 Contractor Quality Control Program (CQCP)
- d) C-102 Temporary Air and Water Pollution, Soil Erosion, and Siltation Control
- e) C-105 Mobilization

Dallas Executive Airport  
Taxiway E Extension Phase I (TxDOT CSJ No. 2318DALAS)  
Pre-Bid Meeting Minutes

- f) P-101 Preparation & Removal of Existing Pavements
- g) P-151 Clearing and Grubbing
- h) P-152 Excavation, Subgrade, and Embankment
- i) P-208 Aggregate Base Course
- j) P-501 Cement Concrete Pavement
- k) P-604 Compression Joint Seals for Concrete Pavements

7) **Questions asked During the Pre-Bid Meeting:**

- a) Will a call-in number be provided for the bid opening?
  - Yes. Bidders may call in to listen to the bid opening results by using the following information:  
**Call in (audio only)**  
[+1 501-214-8852,855913937#](tel:+15012148852855913937) United States, Little Rock  
[\(833\) 450-2980,855913937#](tel:(833)4502980855913937) United States (Toll-free)  
Phone Conference ID: 855 913 937#
  - With Addendum No. 1, the bid opening date has been changed: Bids will be received until 3:30 PM, May 17, 2023, then publicly opened and read – any bid received after closing time will be returned unopened. Deadline for addendums will be posted one week prior to bid opening.
- b) What is the general contact email for submission of DBE documents?
  - For all federally funded construction projects with a DBE goal, bidders shall submit the DBE participation plan and appropriate commitment agreement form/s to TxDOT Aviation within 5 calendar days after the bid opening via email to [AVNRFQ@txdot.gov](mailto:AVNRFQ@txdot.gov).
- c) Does the Contractor need to provide radios?
  - The Contractor shall provide two-way radio for the Contractor's personnel only. Refer to sheet GC-001, Note 5.B and sheet GC-002, Note 18.W for additional notes on radio communication.
- d) Does the Contractor incur a cost for airport badging of Contractor's personnel?
  - Airport badging will be at no cost to the Contractor. Contractor badging and training will be coordinated after the contract has been awarded.
- e) Who is the engineer's quality assurance (QA) testing firm?
  - The engineer's QA lab is STL Engineers. The contractor may not use the same lab as the engineer.
- f) When will the contract be awarded and when will construction start?
  - TxDOT Aviation will be issuing contracts for this project. TxDOT Aviation stated in the pre-bid meeting this could take up to 60 days after the bid opening to get contracts executed. Construction is anticipated to begin in August.
- g) Is the Contractor required to have an office trailer?
  - No. Specification C-105 Mobilization has been updated and issued as part of Addendum No. 1 to reflect that the field office is optional.
- h) Are Contractor's required to register in the Department of Homeland Security's E-Verify Program?
  - The E-Verify Program is not required for TxDOT Aviation Projects.

Dallas Executive Airport  
Taxiway E Extension Phase I (TxDOT CSJ No. 2318DALAS)  
Pre-Bid Meeting Minutes

- i) Can a batch plant be setup at the location shown in the plans?
  - Yes. The contractor can choose to batch concrete onsite in the area shown in the plans as 'BP' on GI-101.
  
- j) What is the procedure for Contractor entry through Airport Perimeter Gate #21? Will a gate guard be required?
  - The Contractor will be provided a code by the airport for entry through Airport Perimeter Gate #21. The airport has the right to change this code intermittently and when the code is changed the airport will notify the contractor. No gate guard will be required but the contractor is responsible for waiting for the gate to close so unauthorized personnel are not following construction vehicles through the gate onto the airfield. If the contractor does not recognize a vehicle or persons entering in Gate 21 they should notify the airport immediately.
  
- k) Can the Contractor provide and maintain their own Lighted X?
  - Yes, the contractor may use their own Lighted X if it meets the requirements provided on GC-401. The airport has a lighted X to be used by the contractor, but the contractor is required to maintain the lighted X during its use.
  
- l) What is slump requirement for concrete pavement?
  - The slump for concrete pavement varies depending on the method of concrete placement. Contractor is to refer to the project's technical specification P-501-3.3 for slump requirements.
  
- m) What are the pavement widths for TDG2 and TDG3?
  - See Plan sheet CP-001 within Addendum No. 1 for reported typical lane widths for TDG2 and TDG3. Construction drawings show TDG3 pavement geometry for construction. The bid form provides quantities in the base bid for the TDG2 pavement width and the Additive Alternate 1 provides quantities for the additional materials to construct TDG3 pavement width.
  
- n) Can Item P-152-4.4 for Embankment - Select Fill (Borrow) materials be lime-treated to meet specification requirements?
  - Per the geotechnical report dated December 14, 2021, that is provided at the end of the technical specifications, any select fill material can be replaced with Lime-Treated subgrade. Lime-treated subgrade would have to meet the requirements of P-155. Per the geotechnical recommendation for the lime-treated subgrade, soils are recommended to receive a minimum of 6 percent hydrated lime by dry soil weight to the specified depth (36 pounds of lime per square yard of surface for 8-inch application depth).
  
- o) If the contractor encounters rock below the P-208 aggregate layer, do they have to remove and replace it with select fill?
  - If the contractor encounters rock below the P-208 layer they do not have to remove the rock layer. If the rock layer is encountered within the P-208 layer, they will have to remove the rock to the bottom of the proposed P-208 layer. Rock excavation is provided as a pay item P-152-4.2 if it is needed to be removed in this situation.
  
- p) Can onsite material be used for embankment select fill?
  - Onsite material can be used for select fill if it meets the select fill requirements outlined in P-152-2.3.





Dallas Executive Airport (RBD)  
Taxiway E Extension Phase I (TxDOT CSJ No. 2318DALAS)  
Dallas, Texas

Pre-Bid Meeting  
April 26, 2023, 10:00am

## SIGN-IN SHEET

Name	Representing	Phone #	Email
Stan Allen	Ed Bell Construction	469-951-0375	Estimating@EdBellConstruction.com
RAFAEL GARZA	DALLAS Executive Apt.	214-671-1296	rafael.garza@dallas.gov
John Alonzo	LOWE WOLF CON	817-901-6712	JohnA@Lone-Wolf-Conf.com
Fritz K. Ambrozi, #	Ambrozi	816-729-1133	fritz@ambrozi.com
Luis Jimenez	Reyes Group	940-597-4364	ljimenez@reyesgroup.com
Lauren Trojillo	Texas Standard Const, Ltd.	214-330-5229	lauren@texastandardconstruction.com
Rene Ordaz	Dallas Executive Airport	214 557 2686	rene.ordaz@dallas.gov
TONJANIKA ROBINSON	GARVER	214 619 9095	TROBINSON@GARVERUSA.COM
Albert Martinez	Rebcon, LLC	(972) 444-8230	estimating@rebcon.com



Dallas Executive Airport (RBD)  
 Taxiway E Extension Phase I (TxDOT CSJ No. 2318DALAS)  
 Dallas, Texas

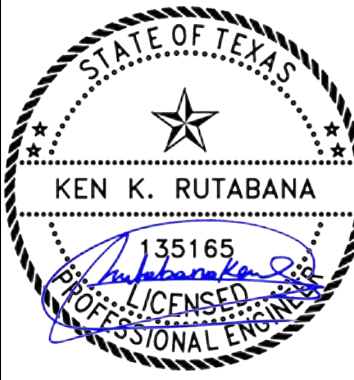
Pre-Bid Meeting  
 April 26, 2023, 10:00am

### SIGN-IN SHEET

Name	Representing	Phone #	Email
John Alonzo	LONE WOLF	817-901-6712	John.A@Lone-Wolf-Cont
SARA ANDREWS	GARVER	214-619-9048	SCANDREWS@GarverUSA.com
BY PHONE PAUL SLUSSER	TX DOT AVIATION		
ELI LOPEZ	TXDOT AVIATION		



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REV.	DATE	DESCRIPTION

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 DALLAS, TEXAS

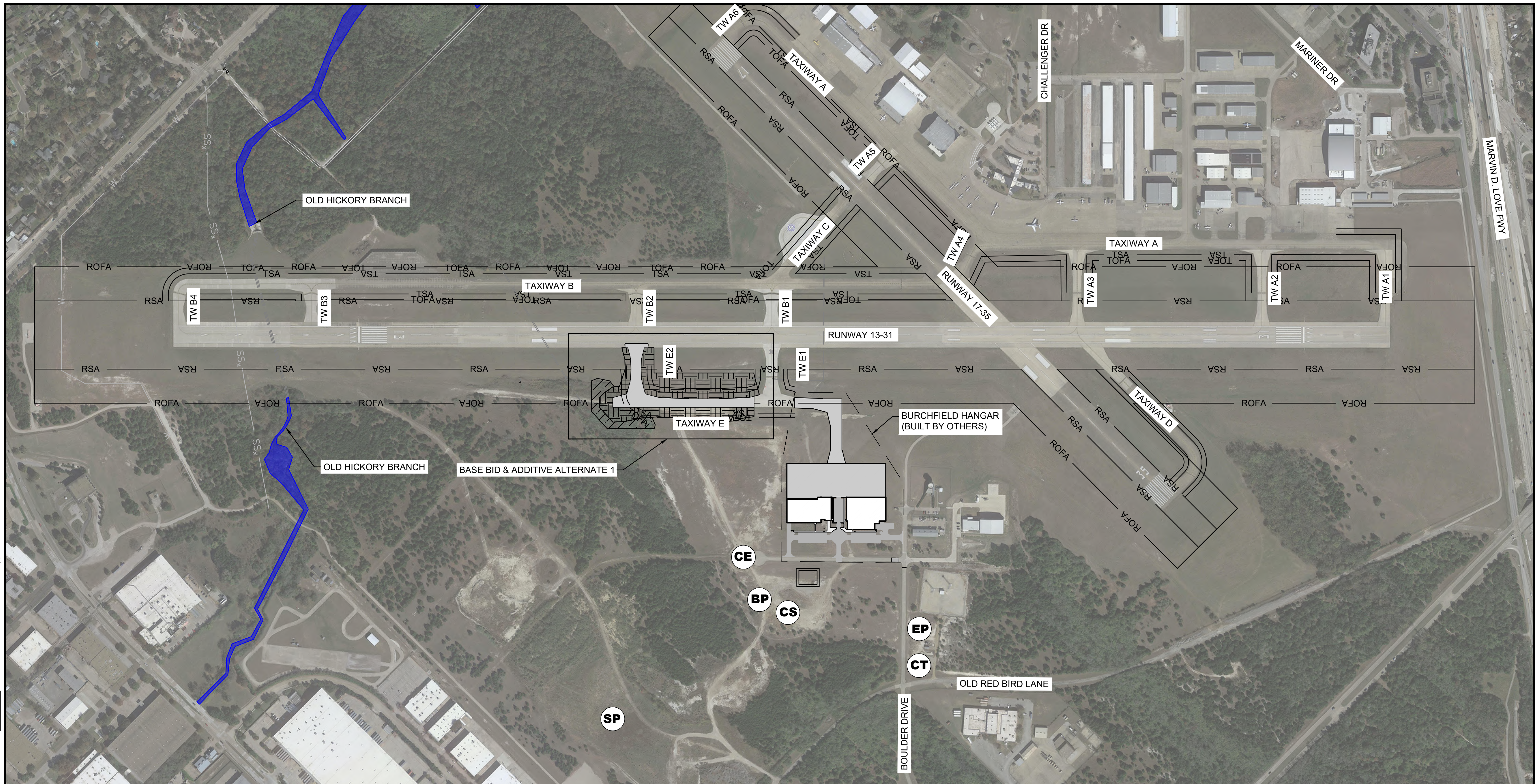
TAXIWAY E PROGRAM - PHASE I

PROJECT LAYOUT PLAN

JOB NO.: 21A11120  
 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

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**GI-101**  
 SHEET NUMBER  
**4**

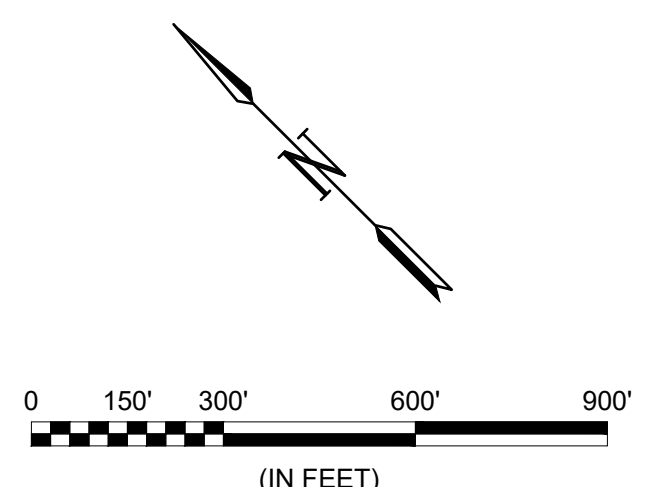


LEGEND

	NEW FULL-STRENGTH PAVEMENT		CONTRACTOR'S EMPLOYEE PARKING
	GRADING IMPROVEMENTS		CONSTRUCTION ENTRANCE
	GRADING AND TREE CLEARING IMPROVEMENTS		CONTRACTOR TRAILERS
	EXISTING 36" WATER MAIN		POTENTIAL CONCRETE BATCH PLANT SITE
	EXISTING 12" SANITARY SEWER		CONTRACTOR'S STAGING
	RUNWAY SAFETY AREA		EXCAVATION STOCKPILE SITE
	RUNWAY OBJECT FREE AREA		CONCRETE WASHOUT AREA
	TAXIWAY SAFETY AREA		GC-402

ITEMS OF WORK

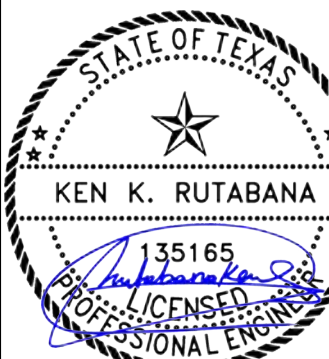
- THIS PROJECT SHALL BE AWARDED ON THE BASIS OF THE FOLLOWING BIDS:
- BASE BID: PROPOSED TAXIWAY E & E2 IMPROVEMENTS (TDG2)
  - ADDITIVE ALTERNATE 1: PROPOSED TAXIWAY E & E2 IMPROVEMENTS (TDG3)
1. PERFORM TREE CLEARING WITHIN PROPOSED GRADING LIMITS (ALL BIDS)
  2. PERFORM EARTHWORK GRADING IMPROVEMENTS. SEE TABLE THIS SHEET
    - 2.1. BASE BID: 16,034 CY OF EARTHWORK
    - 2.2. ADDITIVE ALTERNATE 1: 501 CY OF EARTHWORK
  3. CONSTRUCT PROPOSED TAXIWAYS CONCRETE PAVEMENT.
    - 3.1. BASE BID: 6,143 SY OF PCC
    - 3.2. ADDITIVE ALTERNATE 1: 1,917 SY OF PCC
  4. REMOVE EXISTING STORM GRATE INLET, AND INSTALL PROPOSED 24" SET (ALL BIDS)
  5. SEED AND SOD DISTURBED AREAS AS SHOWN IN THE PLANS.
    - 5.1. BASE BID: 22,919 SY GRADED AREA
    - 5.2. ADDITIVE ALTERNATE 1: -2,600 SY GRADED AREA
  6. INSTALL NEW TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS ON NEW PAVEMENT.
    - 6.1. BASE BID & ADDITIVE ALTERNATE 1: TAXIWAY E & E2 IMPROVEMENTS
  7. INSTALL PROPOSED PAVEMENT MARKINGS.
    - 7.1. BASE BID & ADDITIVE ALTERNATE 1: TAXIWAY E & E2 PAVEMENT MARKINGS



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 DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

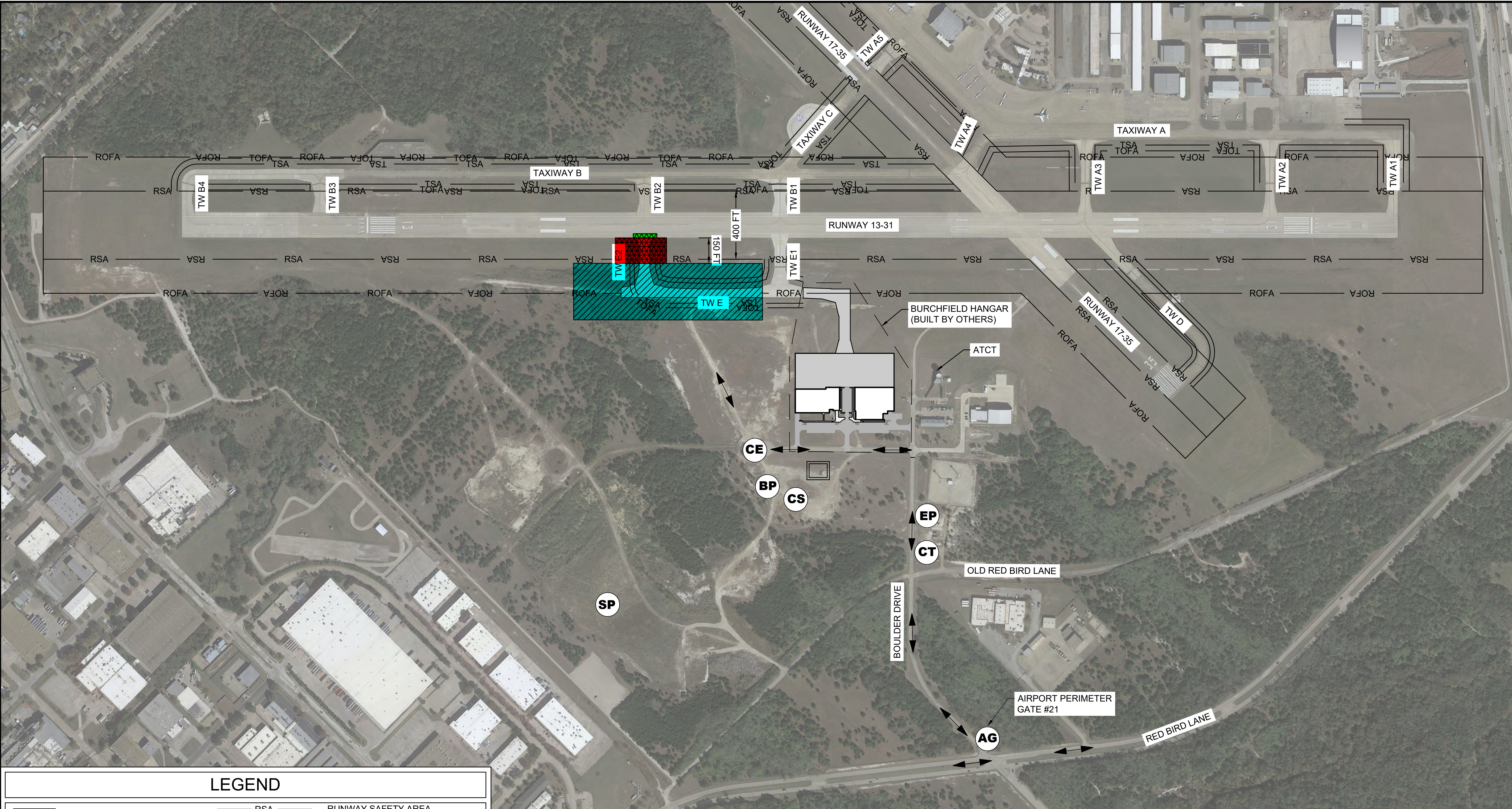
CONSTRUCTION SAFETY AND PHASING PLAN - OVERVIEW

JOB NO.: 21A11120  
 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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**GC-003**

SHEET NUMBER  
**8**



**LEGEND**

	NEW FULL-STRENGTH PAVEMENT	— RSA —	RUNWAY SAFETY AREA
	PHASE A PROJECT AREA	— OFA —	RUNWAY OBJECT FREE AREA
	PHASE B PROJECT AREA	— TSA —	TAXIWAY SAFETY AREA
	ACCESS GATE		CONTRACTOR AND VEHICLE ACCESS
	EXCAVATION STOCKPILE SITE		AIRCRAFT ROUTE
	CONTRACTOR'S STAGING		LIGHTED BARRICADE
	CONCRETE BATCH PLANT SITE		RUNWAY CLOSURE MARKER
	CONTRACTOR TRAILERS		CONTRACTOR'S EMPLOYEE PARKING
			CONSTRUCTION ENTRANCE
			CONCRETE WASHOUT AREA

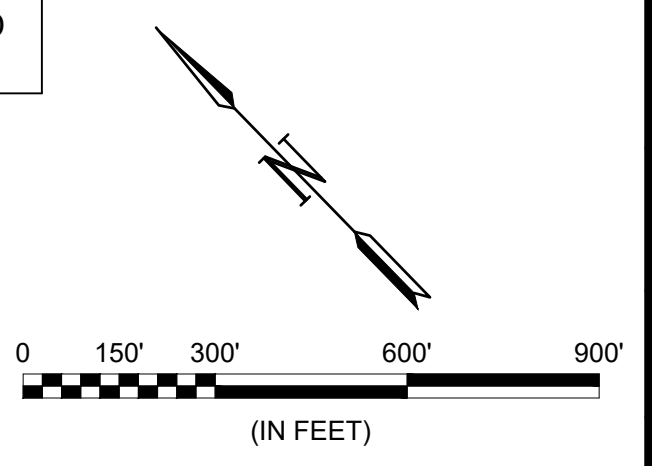
**OVERALL PHASING NOTES**

- PHASE A**
- CLEAR AND GRUB TREES WITHIN PHASE 1 WORK AREA.
  - CONSTRUCT TAXIWAY E2 WITHIN THE PHASE 1 WORK AREA AND PARALLEL TAXIWAY E.
  - INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS.
- PHASE B**
- CLOSE RUNWAY 13-31 AND TAXIWAYS A1, A2, B, B1, B2, B3, B4, AND C.
  - CONSTRUCT PAVEMENT SECTION FOR CONNECTOR TAXIWAY E2 WITHIN THE PHASE B WORK AREA.
  - INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS. MODIFY EXISTING RUNWAY EDGE LIGHTS, SIGNS, AND CIRCUIT DUE TO THE CONSTRUCTION OF THE NEW CONNECTING TAXIWAY.
  - INSTALL PAVEMENT MARKINGS ON PROPOSED TAXIWAYS AS INDICATED ON THE PLANS.

**CONTRACT TIME**

PHASE	CALENDAR DAYS	AIRFIELD IMPACTS
BASE BID	0 - 150	NONE
PHASE A (150 DAYS)	0 - 150	NONE
ADD ALT 1	150 - 180	NONE
PHASE A (30 DAYS)	150 - 180	NONE
BASE BID & ADD ALT 1	180 - 240	RW 13-31 AND ASSOCIATED TAXIWAYS CLOSED
PHASE B (30 DAYS)	180 - 240	RW 13-31 AND ASSOCIATED TAXIWAYS CLOSED

CONSTRUCTION TIME NOTES:  
 ENGINEER AND OWNER RESERVE THE RIGHT TO SUSPEND CONTRACT TIME UP TO 30 CALENDAR DAYS TO ACCOMMODATE AIRFIELD OPERATIONS BETWEEN PHASES WITHOUT ANY ADDITIONAL COST TO THE OWNER.



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 Last plotted by: Granato, David A. Plot Style: AECmono.ctb Plot Scale: 1:1 Plot Date: 1/27/2023 3:54 PM Plotter Used: AutoCAD PDF (General Documentation).pc3

**ITEM SS-120 CONSTRUCTION SAFETY AND SECURITY**

DESCRIPTION

120-1.1 This item covers safety and security for construction of the proposed improvements.

The attention of the bidder is directed to the necessity for careful examination of the entire project site to determine, at the time of bid preparation, the full extent of work to be done under the item "Construction Safety and Security."

The item "Construction Safety and Security" shall include:

1. Lighted Barricades and Closed Taxiway and Runway Markings
2. Lockout/Tagout Program
3. Airport Security Requirements
4. Airport Safety Requirements

CONSTRUCTION METHODS

120-2.1 LIGHTED BARRICADES AND CLOSED TAXIWAY AND RUNWAY MARKINGS. The Contractor shall furnish, install, maintain, and remove closed taxiway and runway markings and lighted barricades in accordance with details on the plans and as directed by the Engineer. *The lighted runway closure markers shall be furnished by the Owner and maintained by the Contractor.* The closed taxiway markers shall be aviation yellow, nylon-reinforced vinyl. The markers shall be secured to the pavement/ground as shown on the plans and as directed by the Engineer. The lighted barricades shall be constructed and installed as shown on the plans. All lighted barricades and closed taxiway and runway markings shall be constructed in accordance with AC 150/5370-2G Operational Safety on Airports During Construction.

All work involved in the furnishing, installation, maintenance, and removal of lighted barricades, barrels and closed runway *lighted X* will not be measured for separate payment, but will be considered subsidiary to the bid item "Construction Safety and Security."

120-2.2 LOCKOUT / TAGOUT PROGRAM. The Contractor shall submit a complete copy of an electrical energy source Lockout/Tagout Program in accordance with Part 1910 – Occupational Safety and Health Standards (OSHA) Subpart S – Electrical, that meets the requirements of 29 CFR 1910.147, The Control of Hazardous Energy (Lockout/Tagout), including requirements listed in 1910.331 through 1910.335. Implementation of the Lockout/Tagout Program and the related safety requirements are the sole responsibility of the Contractor.

120-2.3 AIRPORT SECURITY REQUIREMENTS. The Contractor shall abide by the Airport Security requirements that are outlined in the Construction Safety and Phasing Plan (CSPP) of the plans. Any costs associated with the Airport Security requirements will not be measured for separate payment but will be considered subsidiary to the bid item "Construction Safety and Security."

120-2.4 AIRPORT SAFETY REQUIREMENTS. The Contractor shall abide by the Airport Safety requirements that are outlined in the Construction Safety and Phasing Plan (CSPP) of the plans. All costs associated with the Airport Safety requirements will not be measured for separate payment but will be considered subsidiary to the bid item "Construction Safety and Security."

MEASUREMENT AND PAYMENT

120-3.1 Site preparation will be measured as a lump sum complete item. Work completed and accepted under this item will be paid for at the contract lump sum price bid for "Construction Safety and Security", which price shall be full compensation for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

Periodic payments will be made under this item in proportion to the amount of work accomplished, as determined by the Engineer.

Payment will be made under:

Item SS-120-3.1            Construction Safety and Security - per Lump Sum

**END OF ITEM SS-120**

### ITEM C-100 CONTRACTOR QUALITY CONTROL PROGRAM (CQCP)

**100-1 General.** Quality is more than test results. Quality is the combination of proper materials, testing, workmanship, equipment, inspection, and documentation of the project. Establishing and maintaining a culture of quality is key to achieving a quality project. The Contractor shall establish, provide, and maintain an effective Contractor Quality Control Program (CQCP) that details the methods and procedures that will be taken to assure that all materials and completed construction required by this contract conform to contract plans, technical specifications and other requirements, whether manufactured by the Contractor, or procured from subcontractors or vendors. Although guidelines are established and certain minimum requirements are specified here and elsewhere in the contract technical specifications, the Contractor shall assume full responsibility for accomplishing the stated purpose.

The Contractor shall establish a CQCP that will:

- a. Provide qualified personnel to develop and implement the CQCP.
- b. Provide for the production of acceptable quality materials.
- c. Provide sufficient information to assure that the specification requirements can be met.
- d. Document the CQCP process.

The Contractor shall not begin any construction or production of materials to be incorporated into the completed work until the CQCP has been reviewed and approved by the Resident Project Representative (RPR). No partial payment will be made for materials subject to specific quality control (QC) requirements until the CQCP has been reviewed and approved.

The QC requirements contained in this section and elsewhere in the contract technical specifications are in addition to and separate from the quality assurance (QA) testing requirements. QA testing requirements are the responsibility of the RPR or Contractor as specified in the specifications.

A Quality Control (QC)/Quality Assurance (QA) workshop with the Engineer, RPR, Contractor, subcontractors, testing laboratories, and Owner's representative must be held prior to start of construction, and may be held prior to but separate from the preconstruction meeting. The QC/QA workshop will be facilitated by the Engineer. The Contractor shall coordinate with the Airport and the Engineer on time and location of the QC/QA workshop. Items to be addressed, at a minimum, will include:

- a. Review of the CQCP including submittals, QC Testing, Action & Suspension Limits for Production, Corrective Action Plans, Distribution of QC reports, and Control Charts.
- b. Discussion of the QA program.
- c. Discussion of the QC and QA Organization and authority including coordination and information exchange between QC and QA.
- d. Establish regular meetings to discuss control of materials, methods and testing.
- e. Establishment of the overall QC culture.

#### 100-2 Description of program.

**a. General description.** The Contractor shall establish a CQCP to perform QC inspection and testing of all items of work required by the technical specifications, including those performed by subcontractors. The CQCP shall ensure conformance to applicable specifications and plans with respect to materials, off-site fabrication, workmanship, construction, finish, and functional performance. The CQCP shall be effective for control of all construction work performed under this Contract and shall specifically include surveillance

and tests required by the technical specifications, in addition to other requirements of this section and any other activities deemed necessary by the Contractor to establish an effective level of QC.

**b. Contractor Quality Control Program (CQCP).** The Contractor shall describe the CQCP in a written document that shall be reviewed and approved by the Engineer prior to the start of any production, construction, or off-site fabrication. The written CQCP shall be submitted to the Engineer for review and approval at least 10 calendar days before the CQCP Workshop. The Contractor's CQCP and QC testing laboratory must be approved in writing by the Engineer prior to the start of work items included in the CQCP (earthwork, base, stabilized base, paving, etc.).

The CQCP shall be organized to address, as a minimum, the following:

1. QC organization and resumes of key staff
2. Project progress schedule
3. Submittals schedule
4. Inspection requirements
5. QC testing plan
6. Documentation of QC activities and distribution of QC reports
7. Requirements for corrective action when QC and/or QA acceptance criteria are not met
8. Material quality and construction means and methods. Address all elements applicable to the project that affect the quality of the pavement structure including subgrade, subbase, base, and surface course. Some elements that must be addressed include, but is not limited to mix design, aggregate grading, stockpile management, mixing and transporting, placing and finishing, quality control testing and inspection, smoothness, laydown plan, equipment, and temperature management plan.

The Contractor must add any additional elements to the CQCP that is necessary to adequately control all production and/or construction processes required by this contract.

**100-3 CQCP organization.** The CQCP shall be implemented by the establishment of a QC organization. An organizational chart shall be developed to show all QC personnel, their authority, and how these personnel integrate with other management/production and construction functions and personnel.

The organizational chart shall identify all QC staff by name and function, and shall indicate the total staff required to implement all elements of the CQCP, including inspection and testing for each item of work. If necessary, different technicians can be used for specific inspection and testing functions for different items of work. If an outside organization or independent testing laboratory is used for implementation of all or part of the CQCP, the personnel assigned shall be subject to the qualification requirements of paragraphs 100-03a and 100-03b. The organizational chart shall indicate which personnel are Contractor employees and which are provided by an outside organization.

The QC organization shall, as a minimum, consist of the following personnel:

**a. Program Administrator.** The Contractor Quality Control Program Administrator (CQCPA) must be a full-time on-site employee of the Contractor, or a consultant engaged by the Contractor. The CQCPA must have a minimum of five (5) years of experience in QC pavement construction with prior QC experience on a project of comparable size and scope as the contract.

Included in the five (5) years of paving/QC experience, the CQCPA must meet at least one of the following requirements:



(1) Professional Engineer with one (1) year of airport paving experience.

(2) Engineer-in-training with two (2) years of airport paving experience.

(3) National Institute for Certification in Engineering Technologies (NICET) Civil Engineering Technology Level IV with three (3) years of airport paving experience.

(4) An individual with four (4) years of airport paving experience, with a Bachelor of Science Degree in Civil Engineering, Civil Engineering Technology or Construction.

*Certification at an equivalent level of qualification and experience by a state or nationally recognized organization will be acceptable in lieu of NICET certification.*

The CQCPA must have full authority to institute any and all actions necessary for the successful implementation of the CQCP to ensure compliance with the contract plans and technical specifications. The CQCPA authority must include the ability to immediately stop production until materials and/or processes are in compliance with contract specifications. The CQCPA must report directly to a principal officer of the construction firm. The CQCPA may supervise the Quality Control Program on more than one project provided that person can be at the job site within two (2) hours after being notified of a problem.

**b. QC technicians.** A sufficient number of QC technicians necessary to adequately implement the CQCP must be provided. These personnel must be either Engineers, engineering technicians, or experienced craftsman with qualifications in the appropriate field equivalent to NICET Level II in Civil Engineering Technology or higher, and shall have a minimum of two (2) years of experience in their area of expertise.

The QC technicians must report directly to the CQCPA and shall perform the following functions:

(1) Inspection of all materials, construction, plant, and equipment for conformance to the technical specifications, and as required by paragraph 100-6.

(2) Performance of all QC tests as required by the technical specifications and paragraph 100-8.

(3) Performance of tests for the RPR when required by the technical specifications.

Certification at an equivalent level of qualification and experience by a state or nationally recognized organization will be acceptable in lieu of NICET certification.

**c. Staffing levels.** The Contractor shall provide sufficient qualified QC personnel to monitor each work activity at all times. Where material is being produced in a plant for incorporation into the work, separate plant and field technicians shall be provided at each plant and field placement location. The scheduling and coordinating of all inspection and testing must match the type and pace of work activity. The CQCP shall state where different technicians will be required for different work elements.

**100-4 Project progress schedule.** Critical QC activities must be shown on the project schedule as required by Section 80, paragraph 80-03, *Execution and Progress*.

**100-5 Submittals schedule.** The Contractor shall submit a detailed listing of all submittals (for example, mix designs, material certifications) and shop drawings required by the technical specifications. The listing can be developed in a spreadsheet format and shall include as a minimum:

a. Specification item number

b. Item description

c. Description of submittal

d. Specification paragraph requiring submittal

- e. Scheduled date of submittal

**100-6 Inspection requirements.** QC inspection functions shall be organized to provide inspections for all definable features of work, as detailed below. All inspections shall be documented by the Contractor as specified by paragraph 100-9.

Inspections shall be performed as needed to ensure continuing compliance with contract requirements until completion of the particular feature of work. Inspections shall include the following minimum requirements:

a. During plant operation for material production, QC test results and periodic inspections shall be used to ensure the quality of aggregates and other mix components, and to adjust and control mix proportioning to meet the approved mix design and other requirements of the technical specifications. All equipment used in proportioning and mixing shall be inspected to ensure its proper operating condition. The CQCP shall detail how these and other QC functions will be accomplished and used.

b. During field operations, QC test results and periodic inspections shall be used to ensure the quality of all materials and workmanship. All equipment used in placing, finishing, and compacting shall be inspected to ensure its proper operating condition and to ensure that all such operations are in conformance to the technical specifications and are within the plan dimensions, lines, grades, and tolerances specified. The CQCP shall document how these and other QC functions will be accomplished and used.

**100-7 Contractor QC testing facility.**

a. For projects that include Item P-401, Item P-403, and Item P-404, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM D3666, *Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials*:

- 8.1.3 Equipment Calibration and Checks;
- 8.1.9 Equipment Calibration, Standardization, and Check Records;
- 8.1.12 Test Methods and Procedures

b. For projects that include P-501, the Contractor shall ensure facilities, including all necessary equipment, materials, and current reference standards, are provided that meet requirements in the following paragraphs of ASTM C1077, *Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation*:

- 7 Test Methods and Procedures
- 8 Facilities, Equipment, and Supplemental Procedures

**100-8 QC testing plan.** As a part of the overall CQCP, the Contractor shall implement a QC testing plan, as required by the technical specifications. The testing plan shall include the minimum tests and test frequencies required by each technical specification Item, as well as any additional QC tests that the Contractor deems necessary to adequately control production and/or construction processes.

The QC testing plan can be developed in a spreadsheet fashion and shall, as a minimum, include the following:

- a. Specification item number (e.g., P-401)
- b. Item description (e.g., Hot Mix Asphalt Pavements)
- c. Test type (e.g., gradation, grade, asphalt content)
- d. Test standard (e.g., ASTM or American Association of State Highway and Transportation Officials (AASHTO) test number, as applicable)

e. Test frequency (e.g., as required by technical specifications or minimum frequency when requirements are not stated)

f. Responsibility (e.g., plant technician)

g. Control requirements (e.g., target, permissible deviations)

The QC testing plan shall contain a statistically-based procedure of random sampling for acquiring test samples in accordance with ASTM D3665. The RPR shall be provided the opportunity to witness QC sampling and testing.

All QC test results shall be documented by the Contractor as required by paragraph 100-9.

**100-9 Documentation.** The Contractor shall maintain current QC records of all inspections and tests performed. These records shall include factual evidence that the required QC inspections or tests have been performed, including type and number of inspections or tests involved; results of inspections or tests; nature of defects, deviations, causes for rejection, etc.; proposed remedial action; and corrective actions taken.

These records must cover both conforming and defective or deficient features, and must include a statement that all supplies and materials incorporated in the work are in full compliance with the terms of the contract. Legible copies of these records shall be furnished to the RPR daily. The records shall cover all work placed subsequent to the previously furnished records and shall be verified and signed by the CQCPA.

Contractor QC records required for the contract shall include, but are not necessarily limited to, the following records:

**a. Daily inspection reports.** Each Contractor QC technician shall maintain a daily log of all inspections performed for both Contractor and subcontractor operations. These technician's daily reports shall provide factual evidence that continuous QC inspections have been performed and shall, as a minimum, include the following:

- (1) Technical specification item number and description
- (2) Compliance with approved submittals
- (3) Proper storage of materials and equipment
- (4) Proper operation of all equipment
- (5) Adherence to plans and technical specifications
- (6) Summary of any necessary corrective actions
- (7) Safety inspection.
- (8) Photographs and/or video

The daily inspection reports shall identify all QC inspections and QC tests conducted, results of inspections, location and nature of defects found, causes for rejection, and remedial or corrective actions taken or proposed.

The daily inspection reports shall be signed by the responsible QC technician and the CQCPA. The RPR shall be provided at least one copy of each daily inspection report on the work day following the day of record. When QC inspection and test results are recorded and transmitted electronically, the results must be archived.

**b. Daily test reports.** The Contractor shall be responsible for establishing a system that will record all QC test results. Daily test reports shall document the following information:

- (1) Technical specification item number and description

- (2) Test designation
- (3) Location
- (4) Date of test
- (5) Control requirements
- (6) Test results
- (7) Causes for rejection
- (8) Recommended remedial actions
- (9) Retests

Test results from each day's work period shall be submitted to the RPR prior to the start of the next day's work period. When required by the technical specifications, the Contractor shall maintain statistical QC charts. When QC daily test results are recorded and transmitted electronically, the results must be archived.

**100-10 Corrective action requirements.** The CQCP shall indicate the appropriate action to be taken when a process is deemed, or believed, to be out of control (out of tolerance) and detail what action will be taken to bring the process into control. The requirements for corrective action shall include both general requirements for operation of the CQCP as a whole, and for individual items of work contained in the technical specifications.

The CQCP shall detail how the results of QC inspections and tests will be used for determining the need for corrective action and shall contain clear rules to gauge when a process is out of control and the type of correction to be taken to regain process control.

When applicable or required by the technical specifications, the Contractor shall establish and use statistical QC charts for individual QC tests. The requirements for corrective action shall be linked to the control charts.

**100-11 Inspection and/or observations by the RPR.** All items of material and equipment are subject to inspection and/or observation by the RPR at the point of production, manufacture or shipment to determine if the Contractor, producer, manufacturer or shipper maintains an adequate QC system in conformance with the requirements detailed here and the applicable technical specifications and plans. In addition, all items of materials, equipment and work in place shall be subject to inspection and/or observation by the RPR at the site for the same purpose.

Inspection and/or observations by the RPR does not relieve the Contractor of performing QC inspections of either on-site or off-site Contractor's or subcontractor's work.

**100-12 Noncompliance.**

**a.** The Resident Project Representative (RPR) will provide written notice to the Contractor of any noncompliance with their CQCP. After receipt of such notice, the Contractor must take corrective action.

**b.** When QC activities do not comply with either the CQCP or the contract provisions or when the Contractor fails to properly operate and maintain an effective CQCP, and no effective corrective actions have been taken after notification of non-compliance, the RPR will recommend the Owner take the following actions:

- (1) Order the Contractor to replace ineffective or unqualified QC personnel or subcontractors and/or
- (2) Order the Contractor to stop operations until appropriate corrective actions are taken.

**METHOD OF MEASUREMENT**

**100-13 Basis of measurement and payment.** Contractor Quality Control Program (CQCP) is for the personnel, tests, facilities and documentation required to implement the CQCP. The CQCP will be paid as a lump sum with the following schedule of partial payments:

- a. With first pay request, 25% with approval of CQCP and completion of the Quality Control (QC)/Quality Assurance (QA) workshop.
- b. When 25% or more of the original contract is earned, an additional 25%.
- c. When 50% or more of the original contract is earned, an additional 20%.
- d. When 75% or more of the original contract is earned, an additional 20%
- e. After final inspection and acceptance of project, the final 10%.

**BASIS OF PAYMENT**

**100-14** Payment will be made under:

Item C-100-14.1 Contractor Quality Control Program (CQCP) – Lump Sum

**REFERENCES**

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

National Institute for Certification in Engineering Technologies (NICET)

ASTM International (ASTM)

ASTM C1077	Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation
ASTM D3665	Standard Practice for Random Sampling of Construction Materials
ASTM D3666	Standard Specification for Minimum Requirements for Agencies Testing and Inspecting Road and Paving Materials

**END OF ITEM C-100**

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### ITEM C-105 MOBILIZATION

**105-1 Description.** This item of work shall consist of, but is not limited to, work and operations necessary for the movement of personnel, equipment, material and supplies to and from the project site for work on the project except as provided in the contract as separate pay items.

**105-2 Mobilization limit.** Mobilization shall be limited to 10 percent of the total project cost.

**105-3 Posted notices.** Prior to commencement of construction activities, the Contractor must post the following documents in a prominent and accessible place where they may be easily viewed by all employees of the prime Contractor and by all employees of subcontractors engaged by the prime Contractor: Equal Employment Opportunity (EEO) Poster “Equal Employment Opportunity is the Law” in accordance with the Office of Federal Contract Compliance Programs Executive Order 11246, as amended; Davis Bacon Wage Poster (WH 1321) - DOL “Notice to All Employees” Poster; and Applicable Davis-Bacon Wage Rate Determination. These notices must remain posted until final acceptance of the work by the Owner.

**105-4.1 Engineer/RPR field office.** *The building for the temporary field office shall is optional and shall be for the exclusive use by the Engineer as a field office and shall conform to the requirements listed below. The dimensions and other requirements specified herein are minimums and the building may be built by the Contractor for the specific purposes noted herein. It is not intended, however, to prohibit the use of commercially built trailers or prefabricated buildings which may deviate in minor dimension or detail from the requirements listed herein but may in some features exceed the listed requirements and in all major respects be entirely suitable for the purpose intended. The Engineer will determine the suitability of any building furnished. It shall be the responsibility of the Contractor to coordinate and obtain also necessary permits and install all required temporary facilities to provide a complete and usable temporary field office.*

*Minimum requirements for offices:*

*a. The building may be portable or other suitable type with 7-ft minimum ceiling height; must be floored, weatherproof and reasonably dustproof; must have at least two glazed sliding windows provided with window latches; must have at least one door provided with a substantial lock and all keys placed in the possession of the Engineer. Doors and windows shall be screened. The building need not be new but the facility furnished under this item shall be neat, clean, sound and usable for the purpose intended.*

*b. The building shall be provided with electric lights and power outlets arranged as directed by the Engineer. The building shall be provided with equipment in good working order. In cold weather the building shall be provided with adequate vented space heating facilities and fuel for heating. In hot weather the building shall be equipped with adequate air conditioning units. Heating and cooling and telephone utility service will be furnished at no cost to the Owner or Engineer.*

*c. The building for the field office shall provide not less than 240 sq. ft. of floor space. At least two tables each suitable for desk and drafting table work shall be provided with approximate dimensions of 30" x 48". These tables may be movable, attached to a wall, or built-in. Each table will be provided with at least two drawers (minimum dimensions: 8" deep x 12" wide by 24" long) or equivalent cabinet or shelf space for storing field books and records.*

*d. The building shall be provided with internet access with a minimum download speed of 24 megabits per second. This service shall be provided for the length of the contract or construction project, whichever is greater.*

**105-4.2 Contractor's access / haul routes.** *The Contractor shall layout, construct, maintain, and repair all access/haul roads needed to construct the work. The existing access roads shown on the plans shall be repaired, as determined necessary by the Engineer, at the close of the project. All such work, including all materials and labor, involved in the layout, construction, maintenance, and repair of the Contractor's*

access/haul roads will not be measured for separate payment but will be considered subsidiary to the bid item "Mobilization." Temporary pipe culverts shall be installed and maintained as required and shall be of the size as directed by the Engineer. The type of pipe used for temporary pipe shall be at the option of the Contractor. Temporary pipe culverts will not be measured for separate payment, but will be considered subsidiary to the access/haul road. All temporary pipe culverts shall be removed by the Contractor and shall remain his property at the close of the project.

**105-4.3 Contractor's Staging Area.** The areas designated in the plans or by the Engineer as the Contractor's staging area shall be cleared and graded by the Contractor as needed for use by the Contractor in constructing the work on this project. All areas used or otherwise occupied by the Contractor for his operations shall be cleaned, regraded, and seeded, as directed by the Engineer, prior to the final acceptance of the project by the Airport. All work involved in the preparation and restoration of areas used or occupied by the Contractor, including clearing, grubbing, regrading, seeding, and installing and removing fence, will not be measured for separate payment but will be considered subsidiary to the bid item Mobilization."

**105-4.4 Instrument Control.** The Contractor will be furnished survey baselines and benchmarks to control the work as shown on the Plans. The Contractor shall be responsible for the additional instrument control necessary to layout and construct the work. The Contractor shall provide the instrument control as provided for in Section 50 of the General Provisions. The Contractor's instrument control of the work shall not be measured for separate payment, but will be considered subsidiary to the bid item "Mobilization".

**105-4.5 Clean-Up.** From time to time, the Contractor shall clean up the site in order that the site presents a neat appearance and that the progress of work will not be impeded. One such clean up shall immediately precede final inspection.

Immediately following acceptance of the work by the Owner, the Contractor shall remove all temporary equipment, surplus materials, and debris resulting from his operations, and leave the site in a condition fully acceptable to the Owner.

#### METHOD OF MEASUREMENT

**105-5 Basis of measurement and payment.** Based upon the contract lump sum price for "Mobilization" partial payments will be allowed as follows:

- a. With first pay request, 25%.
- b. When 25% or more of the original contract is earned, an additional 25%.
- c. When 50% or more of the original contract is earned, an additional 40%.

d. After Final Inspection, Staging area clean-up and delivery of all Project Closeout materials as required by Section 90, paragraph 90-11, Contractor Final Project Documentation, the final 10%.

#### BASIS OF PAYMENT

**105-6** Payment will be made under:

Item C-105-6.1                      Mobilization – per Lump Sum

#### REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Office of Federal Contract Compliance Programs (OFCCP)

Executive Order 11246, as amended



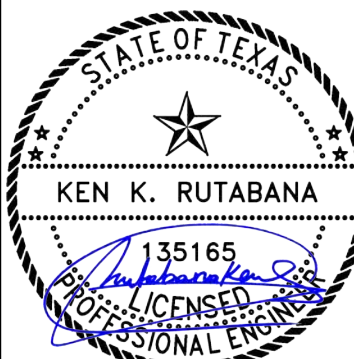
EEOC-P/E-1 – Equal Employment Opportunity is the Law Poster  
United States Department of Labor, Wage and Hour Division (WHD)  
WH 1321 – Employee Rights under the Davis-Bacon Act Poster

**END OF ITEM C-105**

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Digitally Signed 04/27/2023

REV	DATE	DESCRIPTION	BY
1	04/27/23	ADDENDUM NO. 1	KKR

DALLAS EXECUTIVE AIRPORT  
 DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

CONSTRUCTION SAFETY AND PHASING PLAN - OVERVIEW

JOB NO.: 21A11120  
 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER  
**GC-003**  
 SHEET NUMBER  
**8**



LEGEND

	NEW FULL-STRENGTH PAVEMENT*		RSA	RUNWAY SAFETY AREA
	PHASE A PROJECT AREA		OFA	RUNWAY OBJECT FREE AREA
	PHASE B PROJECT AREA		TSA	TAXIWAY SAFETY AREA
	ACCESS GATE			CONTRACTOR AND VEHICLE ACCESS
	EXCAVATION STOCKPILE SITE			AIRCRAFT ROUTE
	CONTRACTOR'S STAGING			LIGHTED BARRICADE
	CONCRETE BATCH PLANT SITE			LIGHTED RUNWAY CLOSURE MARKER
	CONTRACTOR TRAILERS		EP	CONTRACTOR'S EMPLOYEE PARKING
			CE	CONSTRUCTION ENTRANCE
				CONCRETE WASHOUT AREA
				*CONSTRUCTION DRAWINGS SHOW TDG3 PAVEMENT GEOMETRY.

OVERALL PHASING NOTES

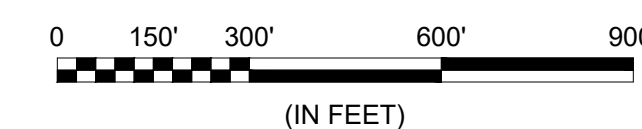
- PHASE A**
- CLEAR AND GRUB TREES WITHIN PHASE 1 WORK AREA.
  - CONSTRUCT TAXIWAY E2 WITHIN THE PHASE 1 WORK AREA AND PARALLEL TAXIWAY E.
  - INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS.
- PHASE B**
- CLOSE RUNWAY 13-31 AND TAXIWAYS A1, A2, B, B1, B2, B3, B4, AND C.
  - CONSTRUCT PAVEMENT SECTION FOR CONNECTOR TAXIWAY E2 WITHIN THE PHASE B WORK AREA.
  - INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS. MODIFY EXISTING RUNWAY EDGE LIGHTS, SIGNS, AND CIRCUIT DUE TO THE CONSTRUCTION OF THE NEW CONNECTING TAXIWAY.
  - INSTALL PAVEMENT MARKINGS ON PROPOSED TAXIWAYS AS INDICATED ON THE PLANS.

CONTRACT TIME

PHASE	CALENDAR DAYS	AIRFIELD IMPACTS
PHASE A (180 DAYS)	0 - 180	NONE
PHASE B1 (30 DAYS)	150 - 180	RW 13-31 REDUCED TO B-II
PHASE B2 (10 DAYS)	170 - 180	RW 13-31 AND ASSOCIATED TAXIWAYS CLOSED

CONSTRUCTION TIME NOTES:

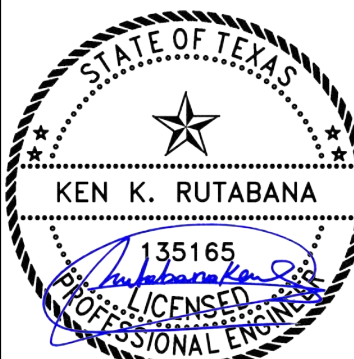
ENGINEER AND OWNER RESERVE THE RIGHT TO SUSPEND CONTRACT TIME UP TO 30 CALENDAR DAYS TO ACCOMMODATE AIRFIELD OPERATIONS BETWEEN PHASES WITHOUT ANY ADDITIONAL COST TO THE OWNER.



File: L:\2021\21A11120 - RBD Taxiway Echo Extension\Drawings\RBD\_TWE\GC-003.dwg Last Save: 1/18/2023 12:25 PM Last saved by: DAGramato Last Plotted by: Rutabana, Ken K. Plot Style: AECmono.ctb Plot Scale: 1:2,594.9 Plot Date: 4/27/2023 12:15 PM Plotter used: None



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BY	KKR
DESCRIPTION	ADDENDUM NO. 1
DATE	04/27/23
REV	

DALLAS EXECUTIVE AIRPORT  
 DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

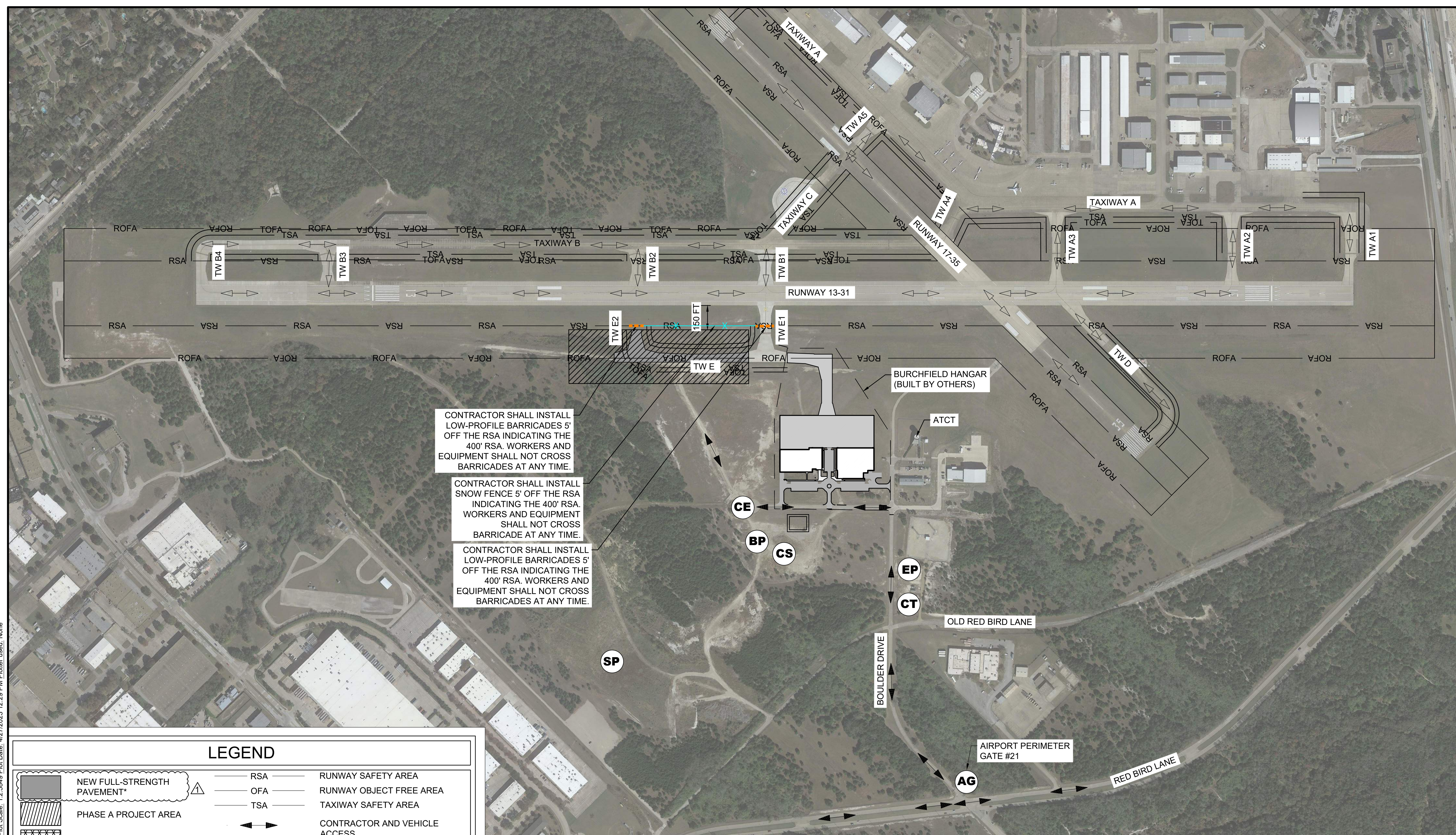
CONSTRUCTION SAFETY AND PHASING PLAN - PHASE A

JOB NO.: 21A11120  
 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

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DRAWING NUMBER  
**GC-101**

SHEET NUMBER  
**9**



CONTRACTOR SHALL INSTALL LOW-PROFILE BARRICADES 5' OFF THE RSA INDICATING THE 400' RSA. WORKERS AND EQUIPMENT SHALL NOT CROSS BARRICADES AT ANY TIME.

CONTRACTOR SHALL INSTALL SNOW FENCE 5' OFF THE RSA INDICATING THE 400' RSA. WORKERS AND EQUIPMENT SHALL NOT CROSS BARRICADE AT ANY TIME.

CONTRACTOR SHALL INSTALL LOW-PROFILE BARRICADES 5' OFF THE RSA INDICATING THE 400' RSA. WORKERS AND EQUIPMENT SHALL NOT CROSS BARRICADES AT ANY TIME.

### LEGEND

	NEW FULL-STRENGTH PAVEMENT*		RSA - RUNWAY SAFETY AREA
	PHASE A PROJECT AREA		OFA - RUNWAY OBJECT FREE AREA
	PHASE B PROJECT AREA		TSA - TAXIWAY SAFETY AREA
	ACCESS GATE		CONTRACTOR AND VEHICLE ACCESS
	EXCAVATION STOCKPILE SITE		AIRCRAFT ROUTE
	CONTRACTOR'S STAGING		LIGHTED BARRICADE
	CONCRETE BATCH PLANT SITE		LIGHTED RUNWAY CLOSURE MARKER
	CONTRACTOR TRAILERS		CONTRACTOR'S EMPLOYEE PARKING
			CONSTRUCTION ENTRANCE
			CONCRETE WASHOUT AREA

\*CONSTRUCTION DRAWINGS SHOW TDG3 PAVEMENT GEOMETRY.

### PHASE A - ITEMS OF WORK

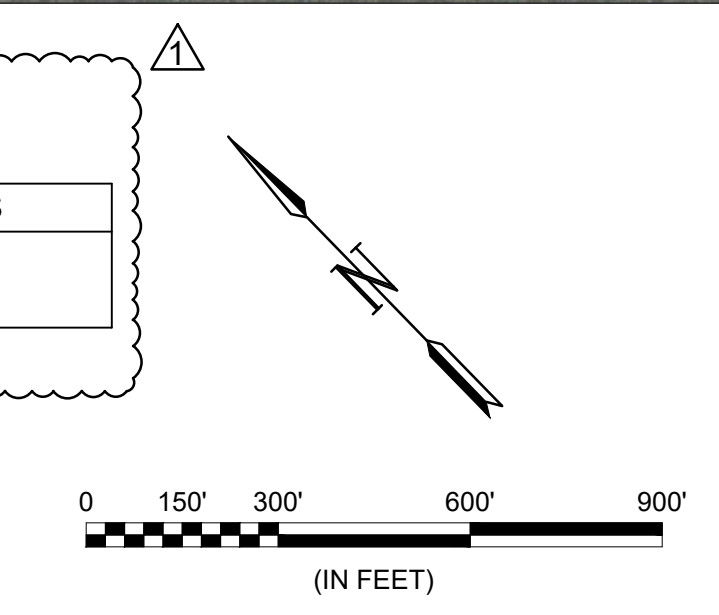
- PLACE BARRICADES AS INDICATED ON PLANS. COMPLETE WORK BELOW.
- CLEAR AND GRUB TREES WITHIN PHASE 1 WORK AREA.
- CONSTRUCT TAXIWAY E2 WITHIN THE PHASE 1 WORK AREA. CONSTRUCT PARALLEL TAXIWAY E.
- INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS. INSTALL NEW REGULATOR TO EXISTING ELECTRICAL VAULT AND UPDATE THE EXISTING LIGHTING CONTROL SYSTEM.

### CONTRACT TIME

PHASE	CALENDAR DAYS	AIRFIELD IMPACTS
PHASE A (180 DAYS)		NONE

CONSTRUCTION TIME NOTES:

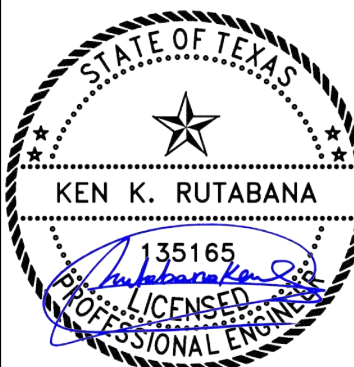
- ENGINEER AND OWNER RESERVE THE RIGHT TO SUSPEND CONTRACT TIME UP TO 30 CALENDAR DAYS TO ACCOMMODATE AIRFIELD OPERATIONS BETWEEN PHASES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- PER FAA ADVISORY CIRCULAR 150/5300-13B APPENDIX G FOOTNOTE 13, AN RSA WIDTH OF 400 FEET WILL BE APPLIED DURING CONSTRUCTION.



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 Last plotted by: Rutabana, Ken K. Plot Style: AECmono.ctb Plot Scale: 1:2,5949 Plot Date: 4/27/2023 12:29 PM Plotter used: None



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1	04/27/23	ADDENDUM NO. 1	KKR

DALLAS EXECUTIVE AIRPORT  
 DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

CONSTRUCTION SAFETY AND PHASING PLAN - PHASE B1

JOB NO.: 21A11120  
 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

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**GC-201**

SHEET NUMBER  
**10**



**LEGEND**

	RSA	RUNWAY SAFETY AREA
	OFA	RUNWAY OBJECT FREE AREA
	TSA	TAXIWAY SAFETY AREA
		CONTRACTOR AND VEHICLE ACCESS
		AIRCRAFT ROUTE
		LIGHTED BARRICADE
		LIGHTED RUNWAY CLOSURE MARKER
		CONTRACTOR'S EMPLOYEE PARKING
		CONSTRUCTION ENTRANCE
		CONCRETE WASHOUT AREA
		*CONSTRUCTION DRAWINGS SHOW TDG3 PAVEMENT GEOMETRY.

**PHASE B1 - ITEMS OF WORK**

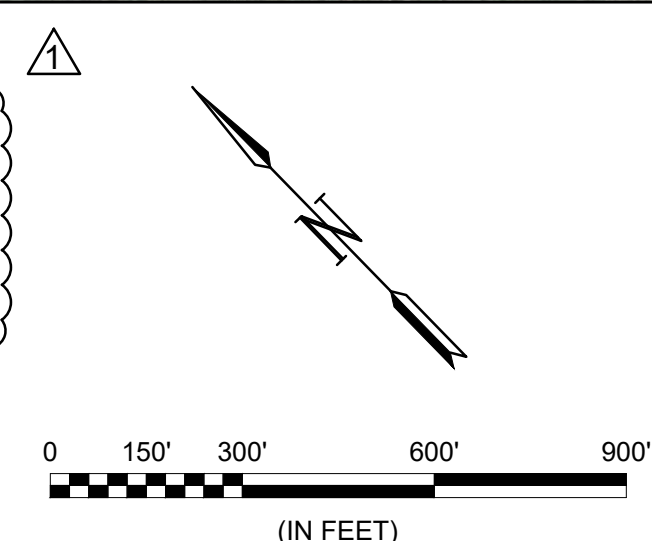
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND AIRPORT 5 DAYS IN ADVANCE OF BEGINNING PHASE B1 - NOTAMS WILL BE ISSUED BY THE AIRPORT BEFORE PHASE B1 BEGINS.
- PLACE BARRICADES AS INDICATED ON PLANS. SEE SHEET G-303 FOR DETAIL. COVER LIGHTS AND SIGNS FOR TAXIWAYS A1 AND A2. LOCKOUT RUNWAY 13-31 EDGE LIGHT CIRCUIT, PAPI CIRCUIT, AND TAXIWAY B EDGE LIGHT CIRCUIT. REQUEST MAINTENANCE CLOSURE AND NOTAM OF RUNWAY 31 ILS OUTAGE. COMPLETE WORK BELOW.
- CONSTRUCT PAVEMENT SECTION FOR CONNECTOR TAXIWAY E2 WITHIN THE PHASE B WORK AREA.
- INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS. MODIFY EXISTING RUNWAY EDGE LIGHTS, SIGNS, AND CIRCUIT DUE TO THE CONSTRUCTION OF THE NEW CONNECTING TAXIWAY.
- INSTALL PAVEMENT MARKINGS ON RUNWAY 13-31, PROPOSED TAXIWAY E AND E2 AS INDICATED ON THE PLANS.

**CONTRACT TIME**

PHASE	CALENDAR DAYS	AIRFIELD IMPACTS
PHASE B1 (30 DAYS)		RW 13-31 REDUCED TO B-II
PHASE B2 (10 DAYS)		RW 13-31 AND ASSOCIATED TAXIWAYS CLOSED

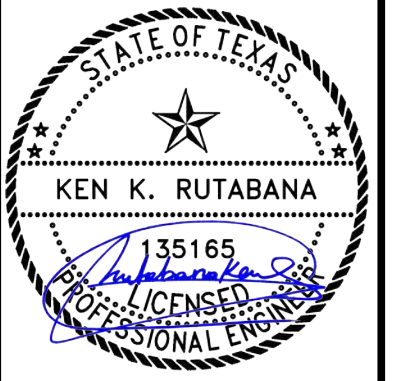
NOTES:

- ENGINEER AND OWNER RESERVE THE RIGHT TO SUSPEND CONTRACT TIME UP TO 30 CALENDAR DAYS TO ACCOMMODATE AIRFIELD OPERATIONS BETWEEN PHASES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- PHASE B DURATION WILL NOT EXCEED 30 DAYS. PHASE B1 IS A SUBPHASE OF PHASE B AND SHALL NOT EXCEED 10 DAYS.
- AIRPORT MAY REQUEST HAUL ROUTE TO REMAIN AT THE END OF THE PROJECT FOR FUTURE PROJECT.





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DALLAS EXECUTIVE AIRPORT  
 DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

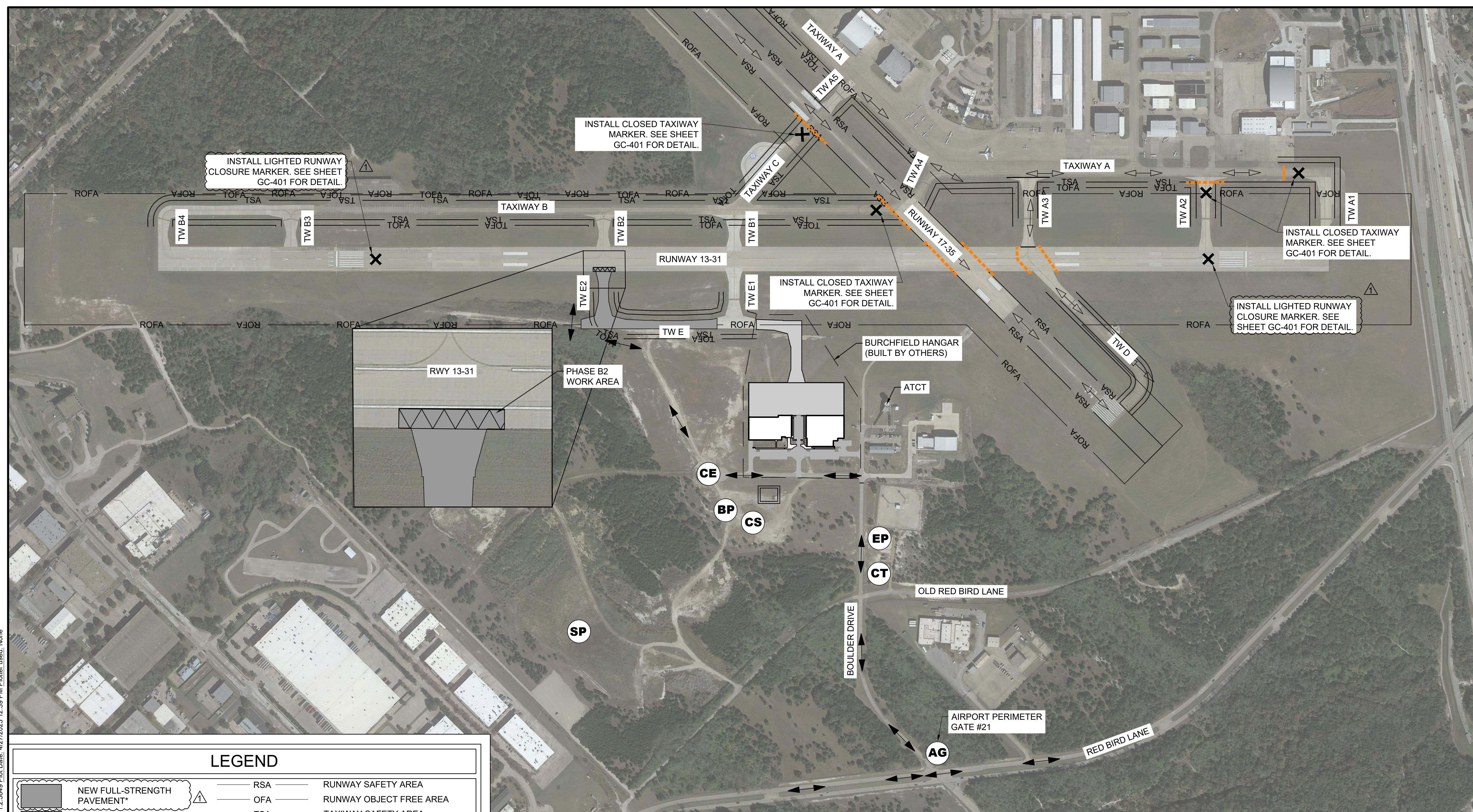
CONSTRUCTION SAFETY AND PHASING PLAN - PHASE B2

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 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

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DRAWING NUMBER  
**GC-202**

SHEET NUMBER  
**11**



**LEGEND**

	NEW FULL-STRENGTH PAVEMENT*		RUNWAY SAFETY AREA
	PHASE A PROJECT AREA		RUNWAY OBJECT FREE AREA
	PHASE B PROJECT AREA		TAXIWAY SAFETY AREA
	ACCESS GATE		CONTRACTOR AND VEHICLE ACCESS
	EXCAVATION STOCKPILE SITE		AIRCRAFT ROUTE
	CONTRACTOR'S STAGING		LIGHTED BARRICADE
	CONCRETE BATCH PLANT SITE		LIGHTED RUNWAY CLOSURE MARKER
	CONTRACTOR TRAILERS		CONTRACTOR'S EMPLOYEE PARKING
			CONSTRUCTION ENTRANCE
			CONCRETE WASHOUT AREA
			*CONSTRUCTION DRAWINGS SHOW TDG3 PAVEMENT GEOMETRY.

**PHASE B2 - ITEMS OF WORK**

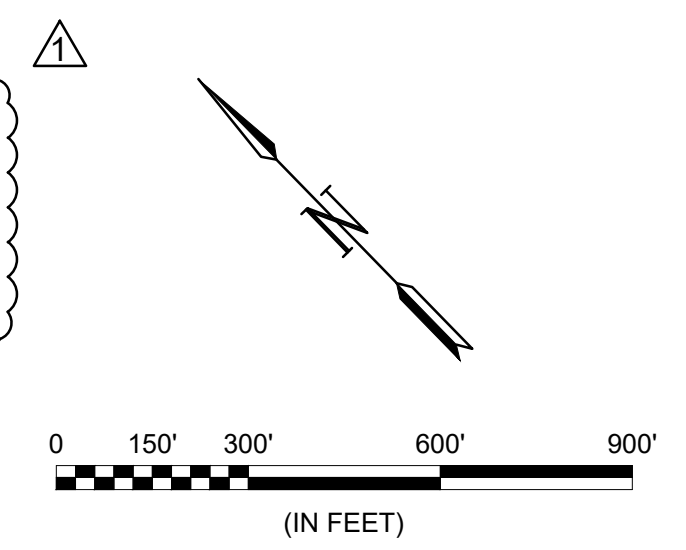
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND AIRPORT 5 DAYS IN ADVANCE OF BEGINNING PHASE B2 - NOTAMS WILL BE ISSUED BY THE AIRPORT BEFORE PHASE B2 BEGINS.
- PLACE BARRICADES AS INDICATED ON PLANS. SEE SHEET G-303 FOR DETAIL. COVER LIGHTS AND SIGNS FOR TAXIWAYS A1 AND A2. LOCKOUT RUNWAY 13-31 EDGE LIGHT CIRCUIT, PAPI CIRCUIT, AND TAXIWAY B EDGE LIGHT CIRCUIT. REQUEST MAINTENANCE CLOSURE AND NOTAM OF RUNWAY 31 ILS OUTAGE. COMPLETE WORK BELOW.
- CONSTRUCT PAVEMENT SECTION FOR CONNECTOR TAXIWAY E2 WITHIN THE PHASE B WORK AREA.
- INSTALL TAXIWAY EDGE LIGHTS AND GUIDANCE SIGNS. MODIFY EXISTING RUNWAY EDGE LIGHTS, SIGNS, AND CIRCUIT DUE TO THE CONSTRUCTION OF THE NEW CONNECTING TAXIWAY.
- INSTALL PAVEMENT MARKINGS ON RUNWAY 13-31, PROPOSED TAXIWAY E AND E2 AS INDICATED ON THE PLANS.

**CONTRACT TIME**

PHASE	CALENDAR DAYS	AIRFIELD IMPACTS
PHASE B1 (30 DAYS)	0 30 60 90 120 150 180 210 240	RW 13-31 REDUCED TO B-II
PHASE B2 (10 DAYS)	0 30 60 90 120 150 180 210 240	RW 13-31 AND ASSOCIATED TAXIWAYS CLOSED

NOTES:

- ENGINEER AND OWNER RESERVE THE RIGHT TO SUSPEND CONTRACT TIME UP TO 30 CALENDAR DAYS TO ACCOMMODATE AIRFIELD OPERATIONS BETWEEN PHASES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- PHASE B DURATION WILL NOT EXCEED 30 DAYS. PHASE B1 IS A SUBPHASE OF PHASE B AND SHALL NOT EXCEED 10 DAYS.
- AIRPORT MAY REQUEST HAUL ROUTE TO REMAIN AT THE END OF THE PROJECT FOR FUTURE PROJECT.



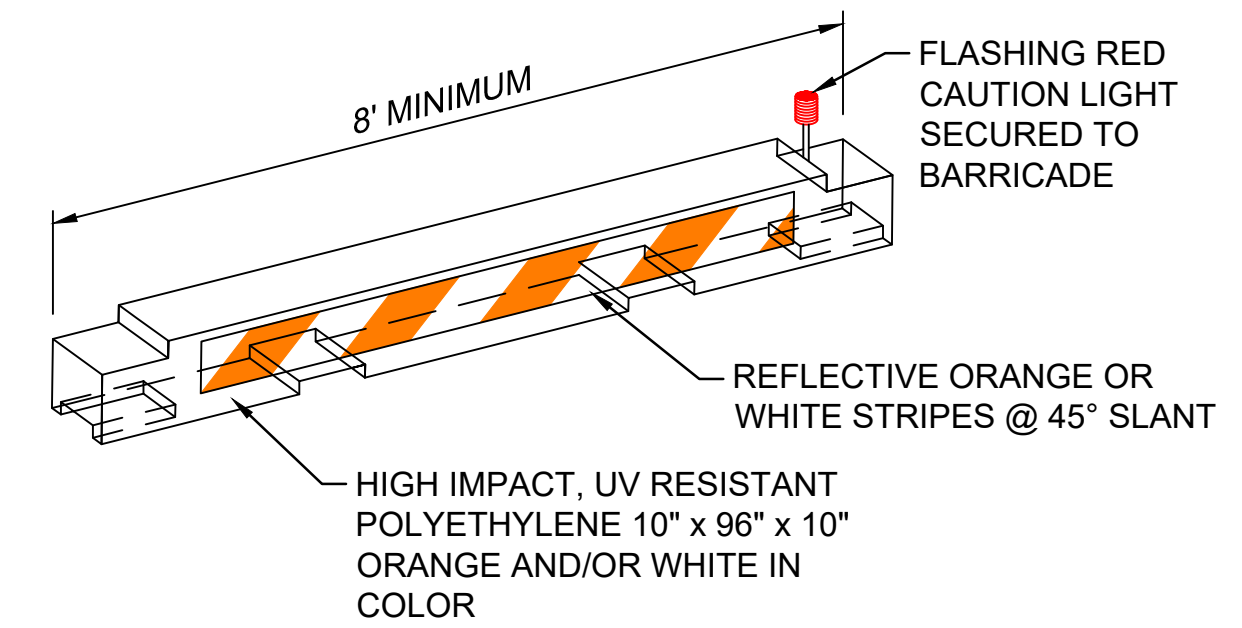
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 Last plotted by: Rutabana, Ken K., Plot Style: AECmono.ctb, Plot Scale: 1:2,5949, Plot Date: 4/27/2023 12:39 PM, Plotter used: None

**STAGING AREA NOTES**

1. THE CONTRACTOR'S EMPLOYEES AND VISITORS VEHICLES SHALL PARK IN THE CONTRACTOR'S EMPLOYEE PARKING AREA. ONLY OWNER APPROVED PERSONNEL WILL BE ALLOWED TO ACCESS AND/OR PARK ON AIRPORT PROPERTY.
2. ALL DELIVERIES, MATERIAL OR OTHERWISE, SHALL BE MADE TO THE DELIVERY ADDRESS OF THE CONTRACTOR'S STAGING AREA. THE NAME "DALLAS EXECUTIVE AIRPORT" SHALL NOT BE USED IN THE DELIVERY ADDRESS.
3. THE LOCATION AND SIZE OF THE CONTRACTOR'S STAGING AREA IS SHOWN FOR REFERENCE ONLY. THE EXACT LIMITS OF THE CONTRACTOR'S PARKING AND STAGING AREA FOR MATERIAL STOCKPILING, OFFICE TRAILERS, AND DELIVERIES SHALL BE PROPOSED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER. THE CONTRACTOR STAGING PLANS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMIT(S) TO DEVELOP AND USE THE SITE FOR STAGING AND OTHER ACTIVITIES AS REQUIRED.
5. THE STAGING AREA SHALL BE PREPARED TO A STABLE AND DRAINABLE CONDITION. THE CONTRACTOR MAY HAVE THE OPTION OF ERECTING ADDITIONAL CHAIN-LINK SECURITY FENCING TO DELINEATE AND PROTECT THE AREA.
6. THE CONTRACTOR MAY DO SOME GRADING AND DRAINAGE WORK TO ADAPT THE AREA TO SPECIFIC NEEDS. UPON COMPLETION OF THE WORK, THE AREA WILL BE GRADED AND DRESSED TO THE SATISFACTION OF THE ENGINEER AND OWNER UPON COMPLETION OF THE CONTRACT WORK.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTIONS TO THE STAGING AREA. ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S STAGING AREA SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY AGENCY BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE METERS AND PERMITS. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
8. NO SEPARATE PAY ITEM SHALL BE MADE FOR ANY ITEM REQUIRED FOR THE CONTRACTOR TO ENCLOSE AND DEVELOP THEIR STAGING AREA.
9. THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY LOST OR STOLEN PROPERTY.
10. NO EQUIPMENT OR VEHICLES SHALL BE PARKED WITHIN 10 FEET OF ANY AIRPORT OPERATIONS AREA (AOA) PERIMETER FENCE.

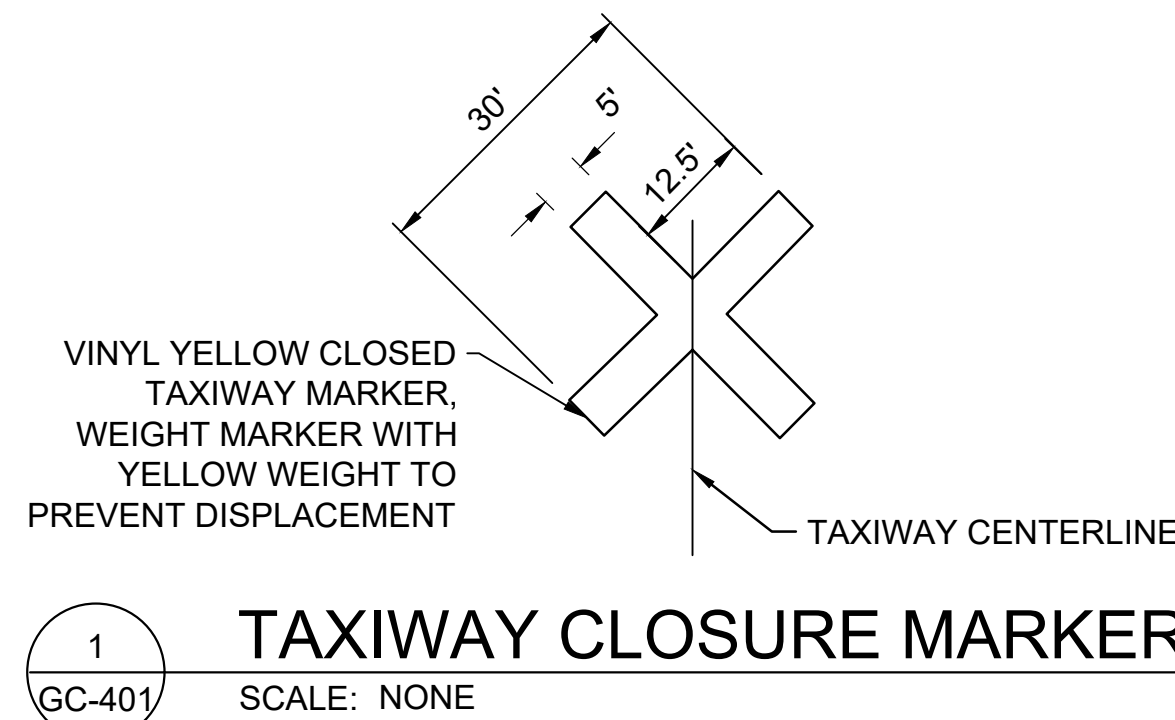
**BADGING AND SECURITY**

1. CONTRACTOR SHALL REVIEW AND FOLLOW CITY OF DALLAS INFORMATION FOR POTENTIAL BIDDERS/CONTRACTORS REGARDING THE SECURITY AND OPERATIONS REQUIREMENTS FOR CONSTRUCTION PROJECTS AT DALLAS EXECUTIVE AIRPORT. THIS DOCUMENT IS INCLUDED IN THE SPECIAL PROVISIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR AIRPORT SECURITY AT ALL TIMES WHEN IN THE AIRPORT OPERATIONS AREA (AOA).
3. CONTRACTOR SHALL FOLLOW ALL AIRPORT SECURITY POLICIES, PROCEDURES, RULES, AND REGULATIONS WHILE OPERATING VEHICLES AND EQUIPMENT ON THE AOA. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL EMPLOYEES AND SUBCONTRACTORS MEET THE AIRPORT SECURITY REQUIREMENTS WHILE OPERATING VEHICLES AND EQUIPMENT ON THE AOA.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A GATE GUARD AT ALL AOA ENTRANCES. ALL GATE GUARDS MUST OBTAIN AN AIRPORT BADGE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINES ASSESSED TO THE AIRPORT DUE TO THE FAILURE OF THE CONTRACTOR OR SUBCONTRACTORS TO FOLLOW AIRPORT SECURITY REQUIREMENTS. THE AIRPORT RESERVES THE RIGHT TO SUSPEND AND/OR REVOKE DRIVING PRIVILEGES AND/OR BADGES FOR FAILURE TO COMPLY WITH THE AIRPORT SECURITY REQUIREMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY NUMBER OF BADGES TO MEET ALL SECURITY REQUIREMENTS.
7. BADGES MAY BE OBTAINED FROM THE AIRPORT'S BADGING OFFICE. REVIEW SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
8. AIRPORT BADGES SHALL BE VISIBLE AT ALL TIMES.



**NOTES:**

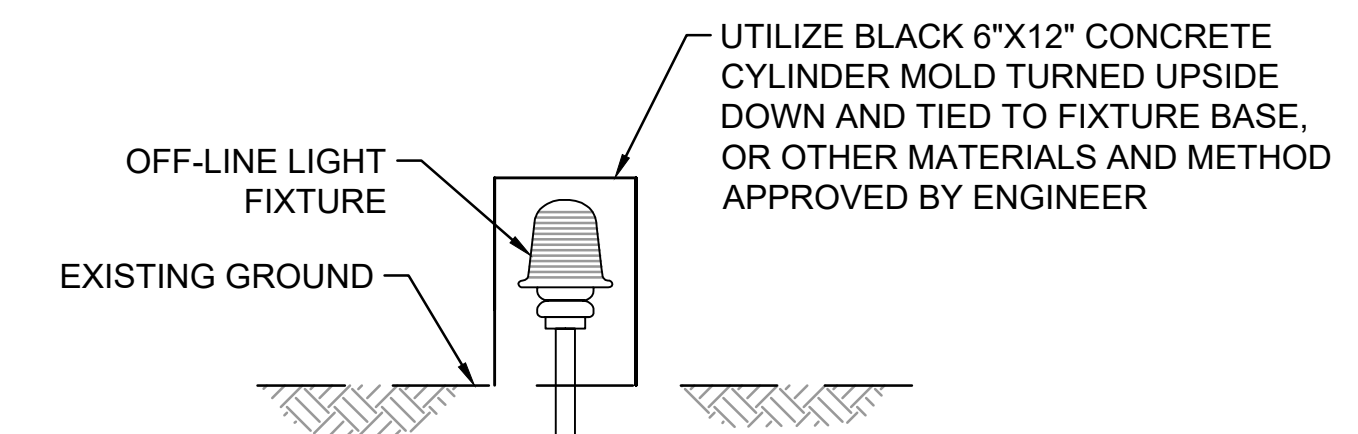
1. BARRICADES SHALL BE FURNISHED, INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
2. BARRICADES SHALL MEET THE REQUIREMENTS OF THE CURRENT FAA ADVISORY CIRCULAR 150/5370-2 AND BE APPROVED BY THE ENGINEER.
3. CONTRACTOR SHALL WEIGHT BARRICADE TO PREVENT DISPLACEMENT. THE METHOD SHALL BE APPROVED BY THE ENGINEER.
4. BARRICADES SHALL BE LOCATED AS DEFINED IN THE CONSTRUCTION SAFETY AND PHASING PLAN (CSPP).
5. UNLESS OTHERWISE NOTED, MAXIMUM BARRICADE SPACING SHALL BE 10' O.C.



**1 TAXIWAY CLOSURE MARKER**  
GC-401 SCALE: NONE

**LOW PROFILE AIRCRAFT BARRICADE (MOVEMENT AREAS)**

**2**  
GC-401 SCALE: NONE



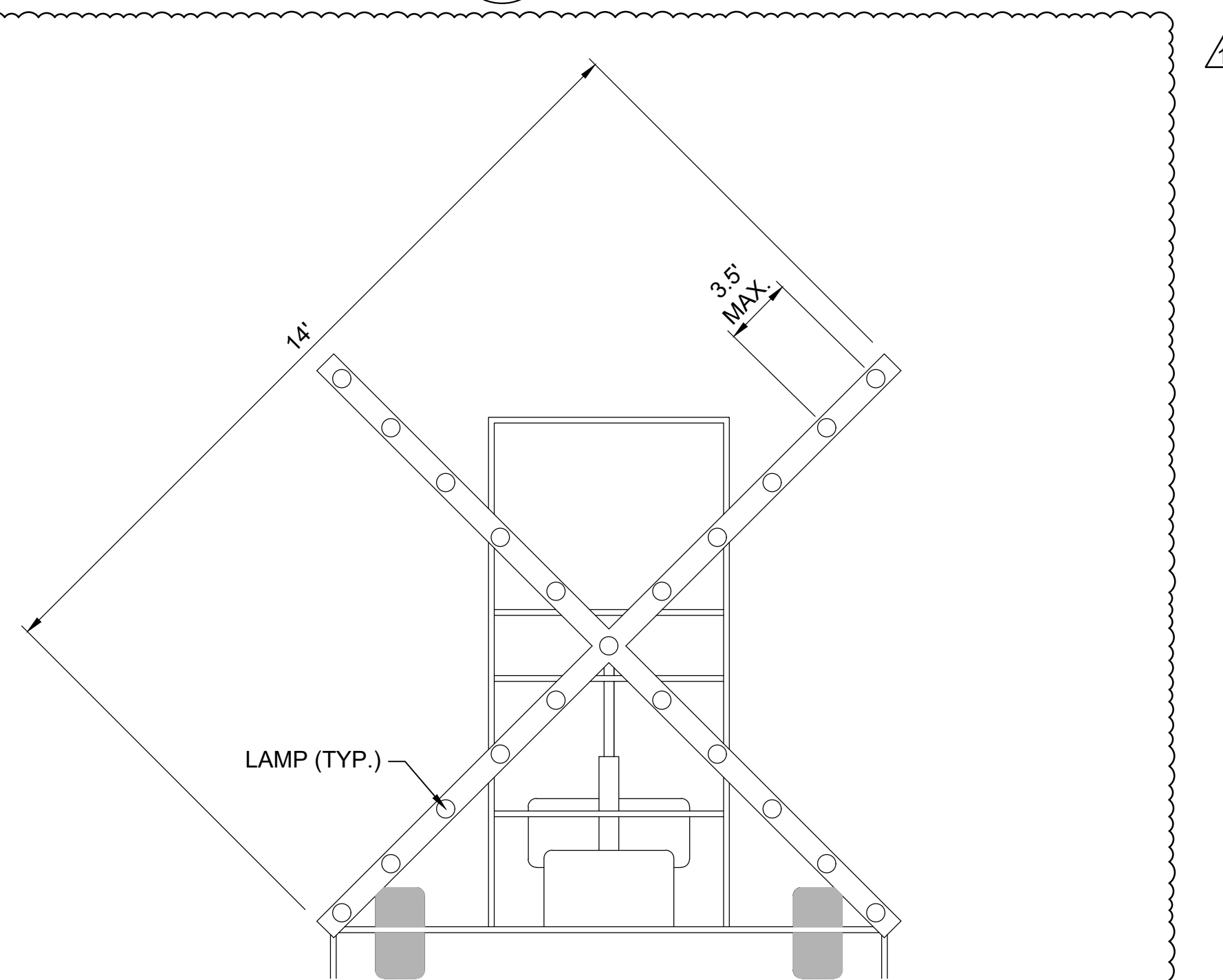
**NOTES:**

1. CONTRACTOR SHALL MAINTAIN THE FIXTURE COVERS IN ACCEPTABLE CONDITIONS AT ALL TIMES.
2. WHEN NO LONGER REQUIRED, THE FIXTURE COVERS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
3. FIXTURE COVERS SHALL BE SECURED TO PREVENT MOVEMENT BY PROP WASH, JET BLAST, OR OTHER WIND CURRENTS.

**4 FIXTURE COVERS**  
GC-401 SCALE: NONE

**NOTES:**

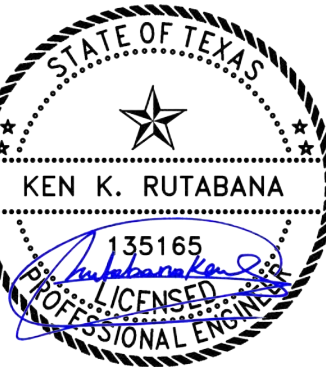
1. LIGHTED RUNWAY CLOSURE MARKER SHALL CONFORM TO THE REQUIREMENTS OF FAA AC 150/5345-55A SPECIFICATION FOR L-893, LIGHTED VISUAL AID TO INDICATE TEMPORARY RUNWAY CLOSURE. DETAIL SHOWS MINIMUM LIGHT SPACING REQUIREMENTS.
2. LIGHTED RUNWAY CLOSURE MARKER SHALL BE INSTALLED ON TOP OF RUNWAY NUMERAL DESIGNATOR OR AS DIRECTED BY THE ENGINEER WHEN WORK IS TAKING PLACE NEAR THE RUNWAY NUMERALS.
3. LIGHTED RUNWAY CLOSURE MARKINGS ARE TO BE SUPPLIED BY THE CONTRACTOR. THE AIRPORT DOES NOT HAVE LIGHTED RUNWAY CLOSURE MARKERS AVAILABLE FOR THE CONTRACTOR.



**3 PORTABLE LIGHTED RUNWAY CLOSURE MARKER (LIGHTED X)**  
GC-401 SCALE: NONE



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1	04/27/23	ADDENDUM NO. 1	KKR

DALLAS EXECUTIVE AIRPORT  
DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

CONSTRUCTION SAFETY AND PHASING DETAILS 1

JOB NO.: 21A11120  
DATE: JAN. 2023  
DESIGNED BY: DAG  
DRAWN BY: MH

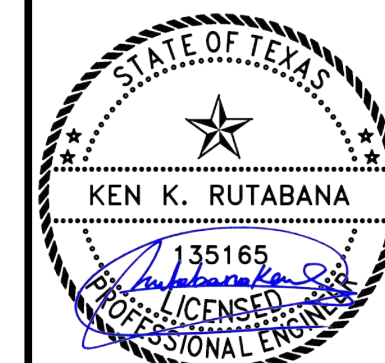
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**GC-401**

SHEET NUMBER  
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BY	KKR
DESCRIPTION	ADDENDUM NO. 1
DATE	04/27/23
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DALLAS EXECUTIVE AIRPORT  
 DALLAS, TEXAS

TAXIWAY E PROGRAM - PHASE I

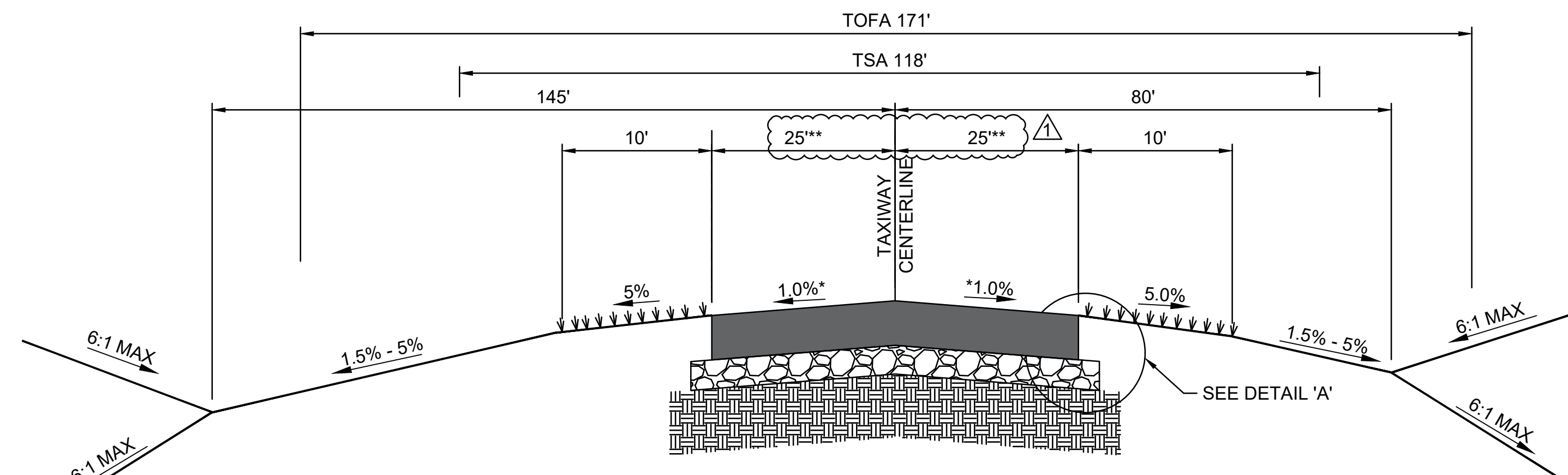
TYPICAL SECTIONS

JOB NO.: 21A11120  
 DATE: JAN. 2023  
 DESIGNED BY: DAG  
 DRAWN BY: MH

BAR IS ONE INCH ON ORIGINAL DRAWING  
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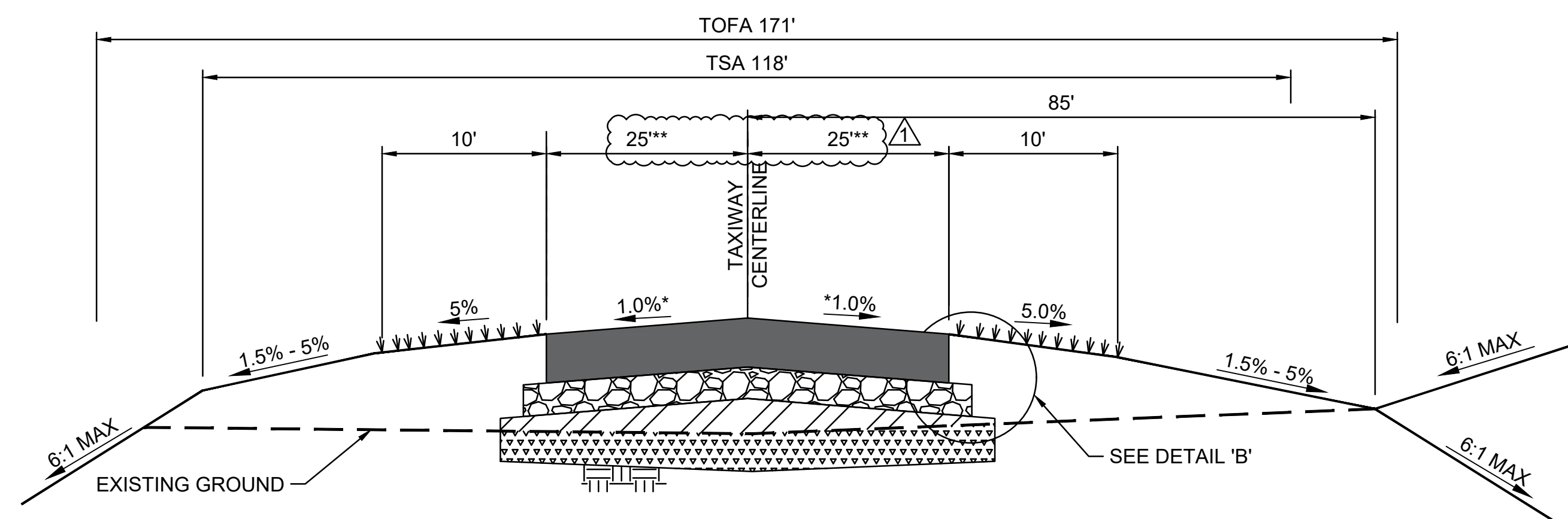
DRAWING NUMBER  
**CP-001**

SHEET NUMBER  
**22**



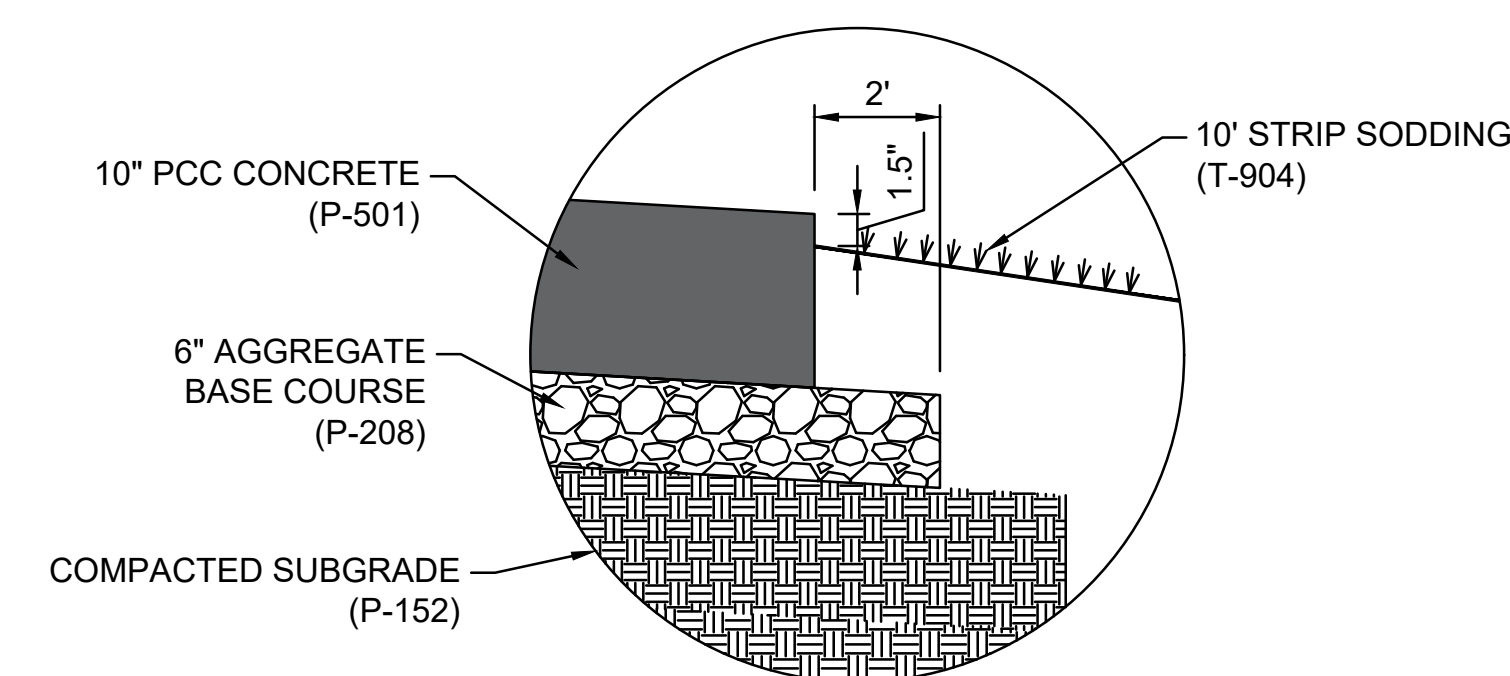
NOTE:  
 LIMESTONE/ROCK IS EXPECTED IN THE VICINITY OF TW E AT A DEPTH OF APPROXIMATELY 4.5'; IT'S EXCAVATION WILL BE PAID UNDER ROCK EXCAVATION

**1 TAXIWAY TYPICAL SECTION 1**  
 SCALE: NONE  
 \*SEE TAXIWAY LAYOUT SHEET AND CROSS SECTIONS

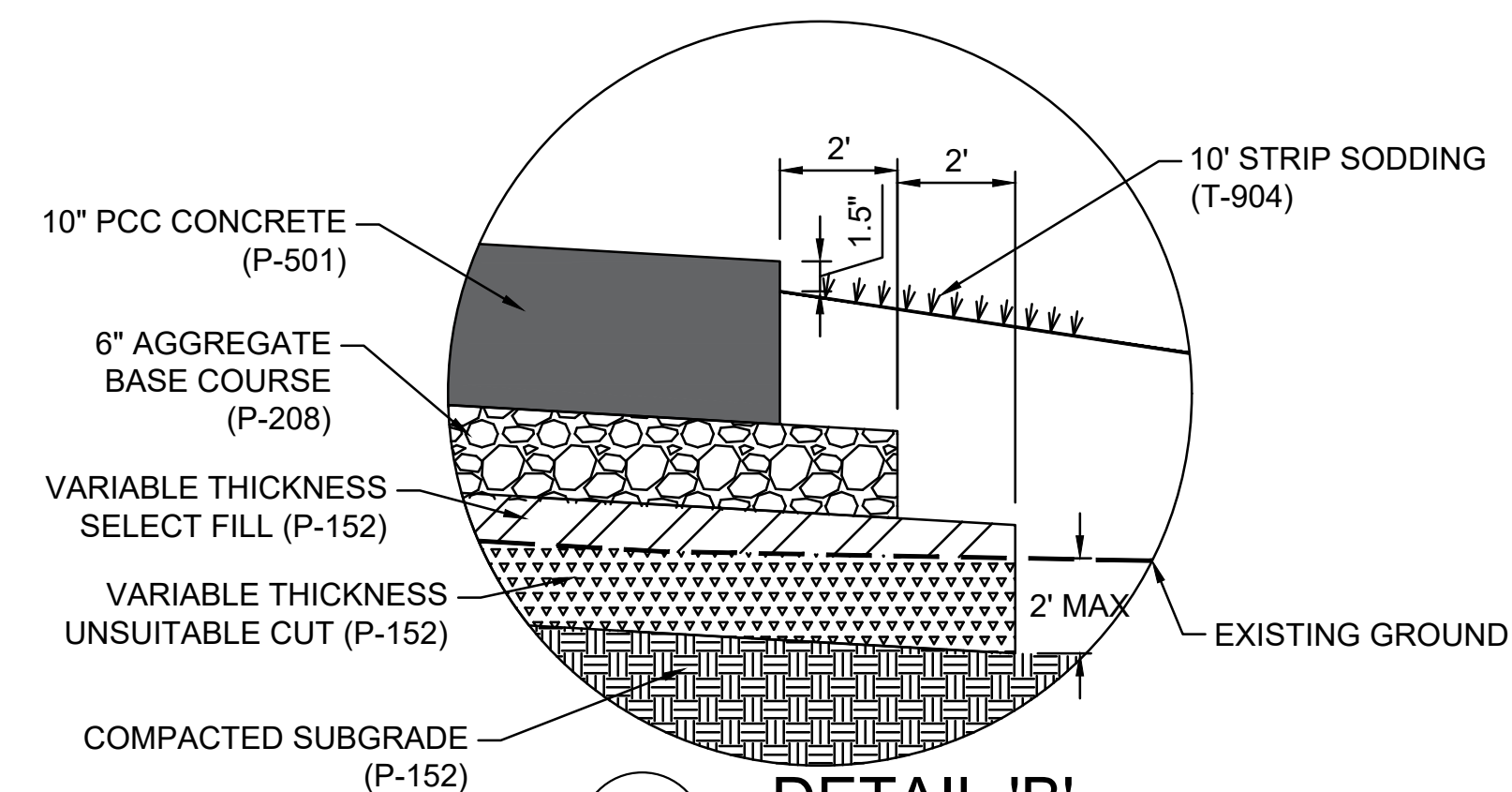


**2 TAXIWAY TYPICAL SECTION 2**  
 SCALE: NONE  
 \*SEE TAXIWAY LAYOUT SHEET AND CROSS SECTIONS

TAXIWAY WIDTH **	
TDG	LANE WIDTH
TDG 2	17.50'
TDG 3	25.00'



**4 DETAIL 'A'**  
 SCALE: NONE



**5 DETAIL 'B'**  
 SCALE: NONE

\*IN CUT AREAS, UNSUITABLE EXCAVATION (P-152) SHALL ONLY BE PAID FOR THE GROUND REMOVED AND REPLACED WITH SELECT FILL UNDER THE PAVEMENT LAYER TO A DEPTH OF 2' BELOW EXISTING GRADE. THE REST OF THE REMOVED GROUND SHALL BE PAID FOR UNDER UNCLASSIFIED EXCAVATION (P-152).

GENERAL NOTES:

- SLOPES AND OFFSETS SHOWN ARE TYPICAL. SEE CROSS SECTIONS FOR ACTUAL SLOPES AND OFFSETS.
- SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED. ALL IRRIGATION NEEDED TO ESTABLISH GRASS SHALL BE CONSIDERED SUBSIDIARY TO T-901 SEEDING.
- ALL INLETS OR SAFETY END TREATMENTS SHALL HAVE 5 FEET OF SOD AROUND THEM ON ALL SIDES.