



# **PRE- BID CONFERENCE**

## **INVITATION TO BID (ITB)**

### **REHABILITATION OF TAXIWAYS SA & SB AT GEORGE BUSH INTERCONTINENTAL AIRPORT (IAH) SOLICITATION # HJA-TXSASB-2024-020**

Jorge Ardines  
Sr. Procurement Specialist  
Houston Airport System

Thursday, April 4, 2024, 1:30 P.M. CT



# Pre-Qualification Meeting Agenda

- |      |                                |   |
|------|--------------------------------|---|
| I.   | Opening Remarks                | Alfredo "Al" Oracion<br>Division Manager    |
| II.  | Solicitation Overview          | Jorge Ardines<br>Sr. Procurement Specialist |
| III. | Office of Business Opportunity | Kellie Irving<br>HAS OBO                    |
| IV.  | Project Scope and Overview     | Zafar Ahmed, Project Manager                |
| V.   | Questions/Answers/Site Visits  |   |



## Procurement Process Reminder Quiet Period

- The Quiet Period begins on the date the solicitation is advertised and extends until an award recommendation appears on City Council Committee Meeting Agenda.
- Only the designated procurement specialist, [Jorge Ardines](#) should be contacted during this time.



## Solicitation Overview

### **PURPOSE:**

The City of Houston (City), Houston Airport System (HAS) invites interested firms to submit a bid for the Rehabilitation of Taxiways SA & SB at George Bush Intercontinental Airport.



# Solicitation Overview

**SOLICITATION DUE DATE AND TIME:**

**Thursday, May 16, 2024, 10:30 A.M. CT**

**QUESTIONS AND REQUESTS FOR ADDITIONAL INFORMATION ARE DUE BY:**

**Friday, April 11, 2024, 3:00 P.M., CT**

Must be received electronically and directed via email to:

[jorge.ardines@houstontx.gov](mailto:jorge.ardines@houstontx.gov)



## Additional Info/Specification Changes

### **ADDENDA:**

Responses to questions received from potential Firm(s) and any changes to the scope shall be confirmed in writing and will be posted to the HAS website ([www.fly2houston.com](http://www.fly2houston.com)) prior to submittal due date.

## Procurement Timeline

<b>Description</b>	<b>Scheduled Date</b>
→ Advertisement of Solicitation	03/22/24
→ Pre-Bid Conference and Site Visit	04/04/24
→ Deadline for Submission of Questions	04/11/24
→ Bid Due Date	05/16/24
→ City Council Agenda Date (Estimated)	08/28/24
→ Contract Start Date (Estimated)	TBD



## Submittal Procedures

**Provide sealed bids, in triplicate, one (1) original** bid signed in **BLUE** ink and marked “original” and **two (2) copies** of the bids.

Bid(s) will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Room P101, Houston Texas 77002 until **10:30 A.M., (CST) on Thursday, May 16, 2024.**

Please include the phrase **“ITB No.: HJA-TXSASB-2024-020, PN 0646A – REHABILITATION OF TAXIWAYS SA & SB AT (IAH)”** in the subject line and provide all applicable contact information.



## Bid Form

- ✈ Submit signed Document 00410 Bid Form, Parts A and B with required 10% Security Deposit and required bid supplements.  
**Initial each page of Bid Form Part B.**
- ✈ Offer is open to acceptance and is irrevocable for **180 calendar days** from Bid Date.



## **Forms To Be Submitted With The Bid**

The forms to be submitted with the bid are listed in the Document 00410A.

## Post Bid Documents

Within 10 workdays after receipt of **Notice of Intent to Award**, successful Bidder shall execute and deliver to HAS documents indicated by an “X” in section 4.0 – A. REQUIREMENTS OF BIDDER in Document 00495 (Post Bid Procedures).

# CONDITIONS OF THE CONTRACT

## Document 00700 - General Conditions

- General Provisions
- The City
- Contractor
- Administration of the Contract
- Subcontractors and Suppliers
- Construction by the City or by Separate Contractors
- Changes in the Work
- Time
- Payment and Completion
- Safety Precautions
- Insurance and Bonds
- Uncovering and Correction of the Work
- Miscellaneous Provisions
- Termination or Suspension of the Contract

# CONDITIONS OF THE CONTRACT

## **Document 00800 – Supplementary Conditions**

- General Provisions
- Changes in the Work
- Time
- Payments and Completion
- Insurance and Bonds



# CITY OF HOUSTON STRATEGIC PROCUREMENT DIVISION

- If you are not registered as a City of Houston vendor, please follow the instructions below.
- Please visit our Supplier Portal using the attached link. Below is a screenshot of the website. Please follow the instructions provided for the circumstance that pertains to your company. [Strategic Procurement Division \(houstontx.gov\)](https://www.houstontx.gov/bizwithhou/SupplierPortal.html)

The screenshot shows the Supplier Portal website with the following content:

https://www.houstontx.gov/bizwithhou/SupplierPortal.html

Strategic Procurement Division > Supplier Portal

## STRATEGIC PROCUREMENT DIVISION

Supplier Portal

[ARIBA EXISTING SUPPLIER LOGIN](#)

[NEW SUPPLIER REGISTRATION](#) (Only if you never had a vendor number/supplier ID with City of Houston)

If you have previously registered with the City of Houston and have a vendor number, please **DO NOT** use New Supplier Registration link. In order to avoid duplication and allow legacy suppliers to continue using the existing vendor number, we have sent out invitation to your email in record. Please use the link in the email to complete the process. If you have not received any invitation email, please contact [HoustonPurchasing@houstontx.gov](mailto:HoustonPurchasing@houstontx.gov).

If you have already submitted a new request on Ariba Network, we will review your request and deny it once we find duplicated record(s).

### DEPT. MAIN LINKS

- [Strategic Procurement Homepage](#)
- [Finance Department Homepage](#)

### PROCUREMENT LINKS

- [Chief Procurement Officer](#)
- [Administrative Policies](#)
- [Bid Law](#)
- [Department Purchasing Representative](#)
- [Employee Directory](#)
- [Overview of Bid Processes](#)
- [Purchasing Terms and Conditions](#)



## OFFICE OF BUSINESS OPPORTUNITY

HAS Office of Business Opportunity

**Kellie Irving**  
HAS OBO

[has.obo@houstontx.gov](mailto:has.obo@houstontx.gov)



## Office of Business Opportunity

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### **About Us**

- Establish M/WBE and DBE Goals
- Evaluate Good Faith Efforts
- Determine Commercially Use Functions
- DBE and MWBE Participation Plans and Letters of Intent
- B2GNow
- Labor Compliance (Prevailing Wages/Weekly Certified Payrolls)
- EEO Requirements and Drug Policy
- Hire Houston First Program
- Pay or Play (POP)
- DBE and ACDBE Certifications





## OFFICE OF BUSINESS OPPORTUNITY

### DIVERSITY REQUIREMENTS

The goals on the project are the following:

- DBE Goal – **13%**
- Weekly Certified Payroll
- Pay or Play Program



# OFFICE OF BUSINESS OPPORTUNITY

## CERTIFICATION

- Participating Firms Must Be Certified Disadvantaged Business Enterprise (DBE) in the State of Texas.
- Firms Must Be Certified DBE At Time Of Qualification Submission. If Not Certified DBE, They Will Not Be Counted Towards Contract Participation.
- MWSBE Certification Will Not Be Counted Towards the Goal.
- Questions About Certification, Visit <http://www.houstontx.gov/obo> Or By Phone (832) 393-0600.



## Searching for DBE's

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### DBE Goal Achievement

There are resources available to assist in assembling your team of certified subcontractors to meet the DBE participation goal for this federally funded project.

Follow these easy steps to access the MWDBE/SBE Directory. Log on to the City of Houston's Website at [www.houstontx.gov](http://www.houstontx.gov).

- Click on the Departments Link/Departments and Directors
- Click on the Office of Business Opportunity
- Click on the Certified Firm Directory

You will then view a search parameter screen where you may enter a company name (Search by Business Name or DBA) or a business description (Search by Business Description). Additionally, check off the applicable certification types you need at the bottom of the screen. For this project, search by Certification type (MBE, WBE or M/WBE). The system will then provide you with a list of currently certified companies for that business type. Clicking on the company's name will give you the contact information.

Contact the HAS Office of Business Opportunity if you encounter any problems or have questions. We can help guide you through this process.

Opportunity if you encounter any problems or have questions. We can help guide you through this process.

**Kellie Irving, Deputy Assistant Director, HAS - Office of Business Opportunity**

[kellie.irving@houstontx.gov](mailto:kellie.irving@houstontx.gov) (281) 233-7833



## OFFICE OF BUSINESS OPPORTUNITY

### OTHER REQUIREMENTS

- Davis Bacon Prevailing Wage (Highway)
- City of Houston Pay or Play Program (POP)

## Diversity Requirements

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### Pay or Play Program

- Developed to address the needs of the uninsured in the Houston area by Executive Order 1-7, certain contractors are required to either:
- Pay: Contribute a designated amount to be used to offset the costs of providing healthcare to uninsured people in the Houston/Harris County area.
- Play: Provide certain employees a minimum level of healthcare benefits.
- Funds collected as a result of POP are placed in a Contractor Responsibility Fund that provides healthcare services to uninsured individuals in the Greater Houston area.



## Diversity Requirements

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### Pay or Play Program

- Vendors must complete and return the following forms before contract award by the Contracting Department:
  - o Acknowledgment Form (POP-1)
  - o Certification of Compliance (POP-2)
  - o Participating Subcontractors Form (POP-3)



## OFFICE OF BUSINESS OPPORTUNITY

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### Quick List

- Please follow the instructions on Document 00810.
- Complete all applicable OBO sections in its entirety.
- List percentage and dollar value of your DBE team member.
- Complete a Letter of Intent for each DBE participating on your team.
- List and submit with your bid all activities engaging DBE firms.

### Questions

**HAS Office of Business Opportunity**

[has.obo@houstontx.gov](mailto:has.obo@houstontx.gov)



# **Project Overview and Scope**

## **HOUSTON AIRPORT SYSTEM INFRASTRUCTURE DIVISION**

**Zafar Ahmed, P.E., Project Manager, HAS**

**Jason Frank, P.E., MBA, Project Manager, Garver**



# Project Overview and Scope

## Overview:

- This ITB is to procure for a contractor that will provide HAS with the services for the Rehabilitation of Taxiways SA & SB and connecting taxiways, and various drainage improvements at IAH airport.

## Project Overview and Scope

### Scope:

The project scope consists of the following:

- Variable depth milling and overlay of bituminous pavement on Taxiway SA and SB and as well as the connecting taxiways.
- Variable depth milling, bituminous overlay and widening of bituminous shoulders along the taxiways.
- Damaged PCC panel repairs and replacement.
- Adding fillet radii at locations shown on the plans to highspeed exit Taxiway SH and SJ (fillets widening and improvement).
- Various drainage improvements including adding concrete pilot channel to the backslope swale along Ditch T, installation of interceptors, regrading backslope swale profiles to the interceptors.
- Sink-hole repair along Ditch T.
- Airfield electrical lighting, signage, and marking.

# Project Overview and Scope

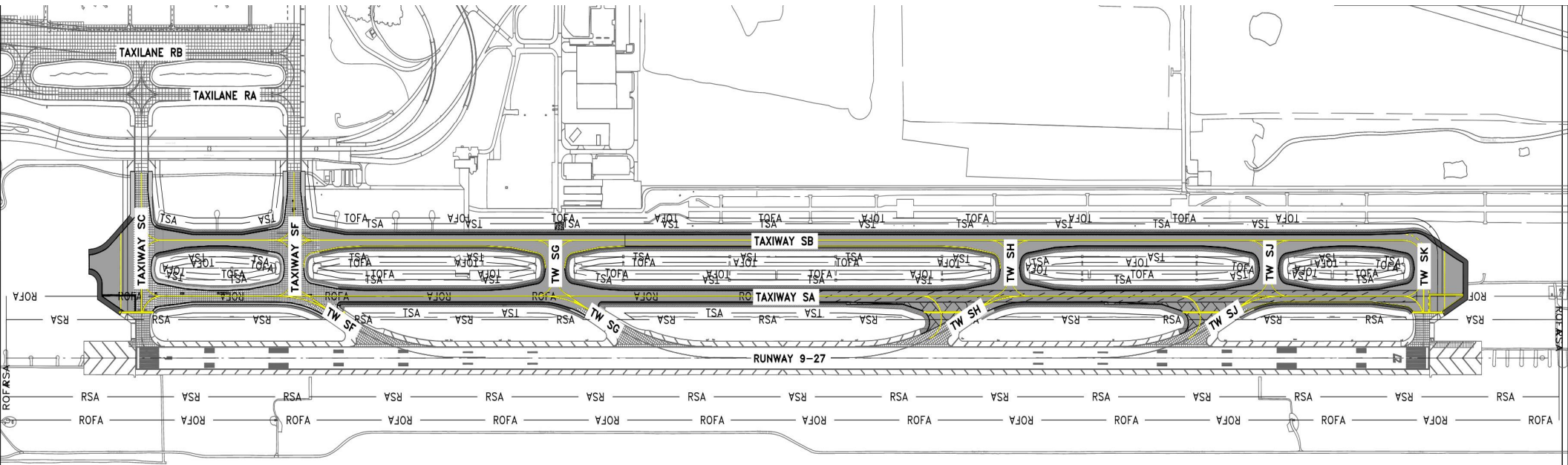
## Scope Continued:

- Some work will take place in the overnight hours. Refer to the phasing sheets for time.
- Per the Construction Notes, HAS (i.e. Owner) IAH Operations may halt project due to operational safety and may also revise phasing.
- Contractor may also present a phasing plan for review.
- The amount of liquidated damage is set \$2,000.00 per day for each phase. Only for Phase 4, where runway closure is required during construction, liquidated damage is set \$5,000.00 per day.

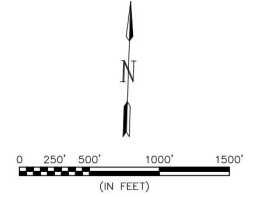
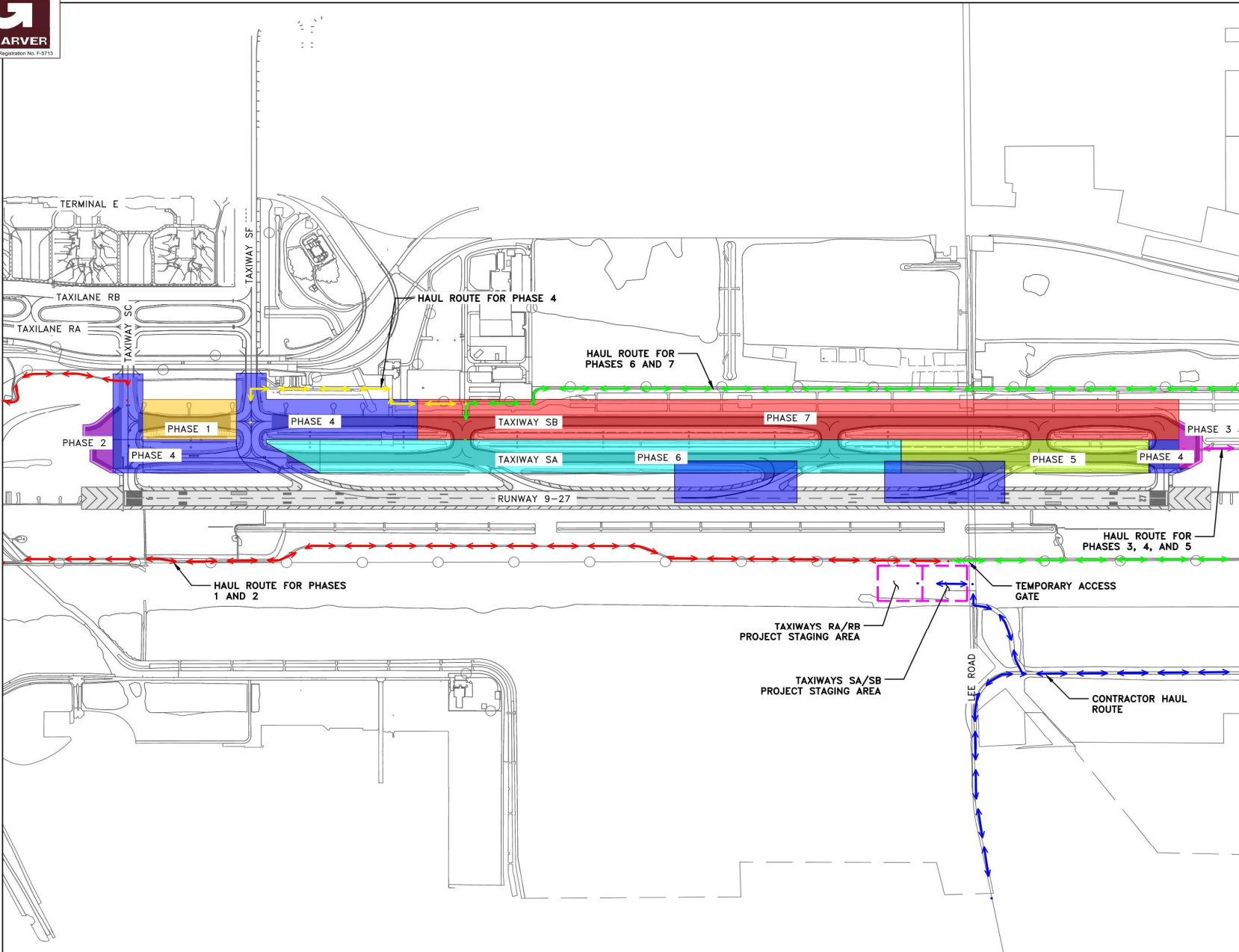
## Additional Alternates:

1. High Speed Taxiway PCC Pavement Construction
2. Substituting PG 76-22 with 82-22 in high dynamic areas
3. Miscellaneous Pavement Repair
4. **Ditch G Duct Bank Relocation (to be added via an addendum)**

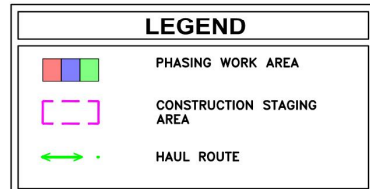
# Project Overview and Scope: Overall Layout



# Project Overview and Scope - Phasing



- NOTES:**
- CONTRACTOR SHALL USE EXTREME CAUTION WHILE MOVING ON ACTIVE TAXIWAYS AND SHALL ONLY USE APPROVED HAUL ROUTES FOR TRANSPORTATION PURPOSES.
  - CONTRACTOR SHALL HAVE A SWEEPER TRUCK ON STANDBY AT ALL ACTIVE TAXIWAY CROSSINGS.
  - WORK ON PHASES 2 AND 4 REQUIRES CLOSURE OF RUNWAY 9-27. WHEN THIS OCCURS, ALL PAVEMENT SOUTH OF TAXILANE RA SHALL BE CLOSED, AND BARRICADES SHALL BE PLACED OUTSIDE THE OBJECT FREE AREA OF TAXILANE RA AND SF BRIDGES.
  - THE PURPOSE OF THE PHASE ORDER NUMBERING IS TO PROVIDE THE CONTRACTOR A BASIC IDEA OF HOW THE PROJECT SHALL PROCEED. PHASING ORDER CAN BE CHANGED AT THE DIRECTION OF HAS OR AT THE REQUEST OF THE CONTRACTOR WITH THE APPROVAL OF HAS.
  - CONTRACTOR SHALL INSTALL, MAINTAIN, AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS REMOVE THE TEMPORARY ACCESS GATE. COST FOR THE GATE IS INCLUDED IN MOBILIZATION.
  - ANY CHANGES TO THE PHASING OR THE CSPP WILL REQUIRE FAA APPROVAL.



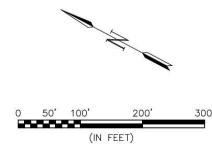
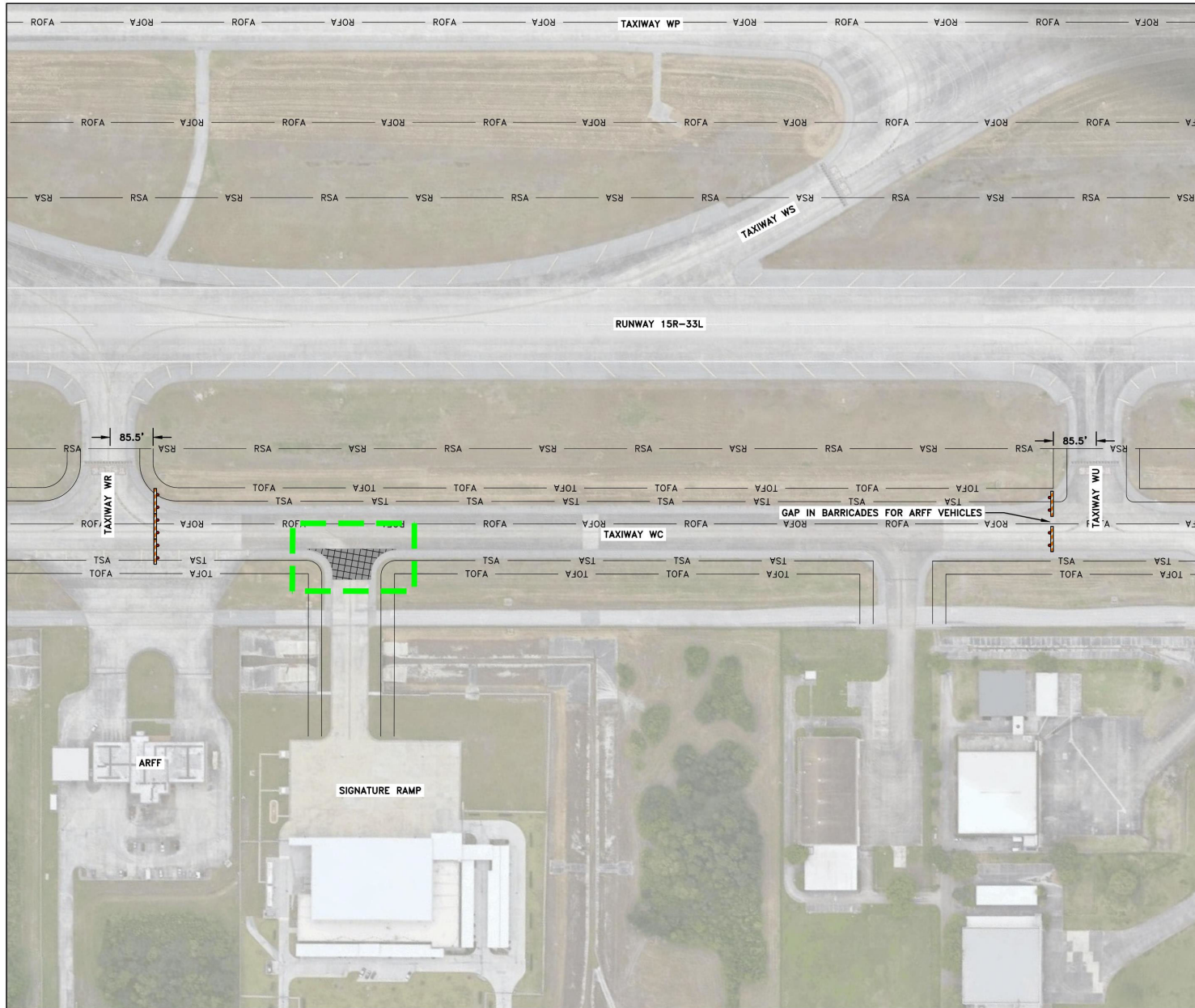
CONSTRUCTION PHASE DURATION		
PHASE	DURATION	WORK HOURS
1	30	24 / 7
2	14	10PM-6AM
3	14	10PM-6AM
4	90	24 / 7
5	30	24 / 7
6	60	24 / 7
7	60	24 / 7






## **Project Overview and Scope**

**Additional Alternate #3: Miscellaneous repair of various taxiways at IAH**

# Miscellaneous repair



### LEGEND

-  PROPOSED 2" ASPHALT MILL & OVERLAY
- RSA — RUNWAY SAFETY AREA
- ROFA — RUNWAY OBJECT FREE AREA
- TSA — TAXIWAY SAFETY AREA
- TOFA — TAXIWAY OBJECT FREE AREA
-  LOW-PROFILE BARRICADE
-  PHASING WORK AREA

- NOTES:**
- WORK HOURS SHALL BE THE NIGHTTIME WORK HOURS OF 10:00PM TO 6:00AM OR AS DIRECTED BY HAS AIRSIDE OPERATIONS AND THE HAS PROJECT MANAGER.
  - CONTRACTOR SHALL USE EXTREME CAUTION WHILE MOVING ON ACTIVE TAXIWAYS AND SHALL ONLY USE APPROVED HAUL ROUTES FOR TRANSPORTATION PURPOSES.
  - REQUIREMENTS TO REOPEN: THE PHASING AREA WILL REOPEN AFTER EACH WORK PERIOD IN ORDER TO SERVICE AIR TRAFFIC THROUGH THE DAY. ALL BARRICADES MUST BE REMOVED; ALL FOD MUST BE REMOVED; ALL DROP OFFS EXCEEDING 3 INCHES AND ALL GRADES IN EXCESS OF 5% MUST BE CORRECTED WITHIN WORK AREA.
  - CONTRACTOR SHALL PLAN FOR A 2 HOUR CLEAN UP AFTER EACH WORK PERIOD IN ORDER TO ACCOMMODATE INSPECTION FROM IAH AIRPORT OPERATIONS AND ENSURE COMPLIANCE WITH FAA STANDARDS FOR THE REOPENING OF TAXIWAYS BY 6:00AM.
  - CONSTRUCTION LIMITS AREA APPROXIMATE AND WILL BE CONFIRMED WITH RPR AND/OR HAS PROJECT MANAGER PRIOR TO STARTING ANY WORK.
  - CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, HAND HOLES, AIRFIELD EQUIPMENT, DRAINAGE STRUCTURES, AND BUILDINGS NOT SHOWN FOR DEMOLITION. ANY DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
  - CONTRACTOR SHALL MAINTAIN A CLEAR ROUTE THROUGH WORK AREA FOR ARFF VEHICLE RESPONSE.



REVISIONS

NO.	DESCRIPTION	DATE	BY

GEORGE BUSH INTERCONTINENTAL AIRPORT  
 REHABILITATION OF TAXIWAYS SA & SB  
**PHASING PLAN - PAVEMENT REHAB 1**

PROJECT WORK: JEF  
 DESIGNER: HOOR  
 DRAWN BY: DAG  
 CHECK BY: JEF  
 SCALE: 1" = 100'  
 DATE: 04/28/2023

JASON E. FRANK  
 TEXAS REGISTRATION  
 87979 FOR REVIEW  
 ONLY. DESIGN  
 DOCUMENTS DEPICTED  
 HEREIN ARE  
 INCOMPLETE AND MAY  
 NOT BE USED FOR  
 REGULATORY APPROVAL,  
 PERMIT OR  
 CONSTRUCTION DATE  
 (05/13/2023)

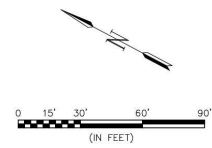
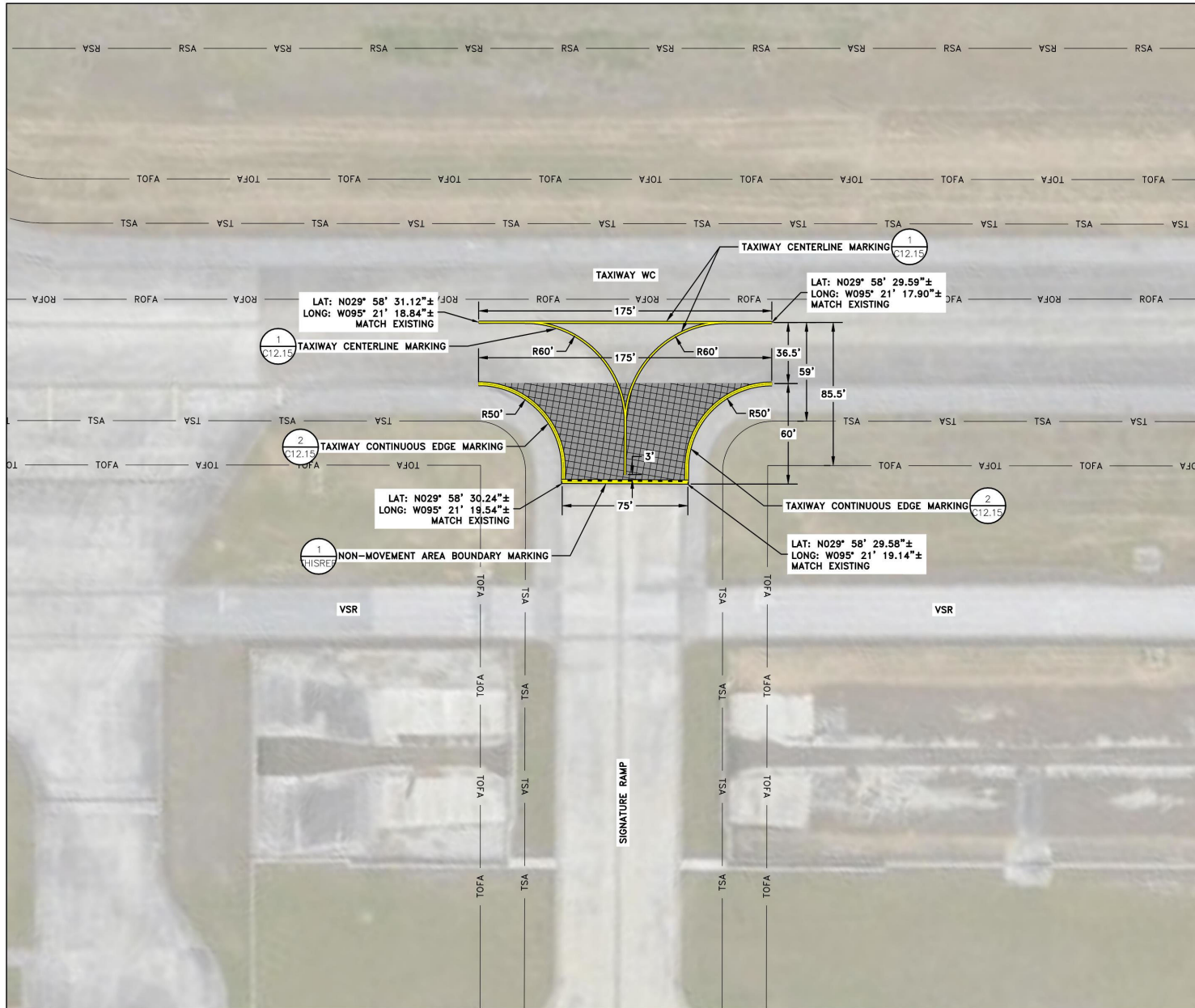
APPROVED BY: JEF

DESIGNER:  
HOUSTON AIRPORTS SYSTEM

PROJECT NO.	0646A
A.L.P. NO.	XXXX
C.L.P. NO.	A-0515
H.A.S. NO.	20C0646A
SHEET NO.	

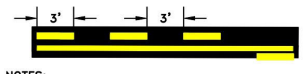
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# Miscellaneous repair



LEGEND	
	PROPOSED 2\"/>
— RSA —	RUNWAY SAFETY AREA
— ROFA —	RUNWAY OBJECT FREE AREA
— TSA —	TAXIWAY SAFETY AREA
— TOFA —	TAXIWAY OBJECT FREE AREA

- NOTES:**
- CONSTRUCTION LIMITS AREA APPROXIMATE AND WILL BE CONFIRMED WITH RPR AND/OR HAS PROJECT MANAGER PRIOR TO STARTING ANY WORK.
  - CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, HAND HOLES, AIRFIELD EQUIPMENT, DRAINAGE STRUCTURES, AND BUILDINGS NOT SHOWN FOR DEMOLITION. ANY DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
  - WHERE PROPOSED NEW PAVEMENT ABUTS EXISTING PAVEMENT, PROVIDE AN INITIAL CLEAN SAWCUT EDGE 6 INCHES FROM THE PROPOSED EDGE OF NEW PAVEMENT. WHEN PREPARING FOR PLACING PAVEMENT, SAWCUT NEW CLEAN EDGE AT THE PROPOSED EDGE OF PAVEMENT.
  - SEE G04.01 FOR CSPP DETAILS.



- NOTES:**
- YELLOW AND BLACK LINES ARE 6\"/>
  - YELLOW LINES ARE SEPARATED BY 6\"/>
- NON-MOVEMENT AREA BOUNDARY  
SCALE: NONE



**REVISIONS**

NO.	DESCRIPTION	DATE	BY

GEORGE BUSH INTERCONTINENTAL AIRPORT  
 REHABILITATION OF TAXIWAYS SA & SB  
**SIGNATURE RAMP PAVEMENT REHAB PLAN**

**PROJECT MGR:** JEF  
**DESIGNER:** KKR  
**DRAWN BY:** DAG  
**CHECK BY:** JEF  
**SCALE:** 1" = 30'  
**DATE:** 04/28/2023

JASON E. FRANK  
 TEXAS REGISTRATION  
 87979 FOR REVIEW  
 ONLY. DESIGN  
 DOCUMENTS DEPICTED  
 HERE IN ARE  
 INCOMPLETE AND MAY  
 NOT BE USED FOR  
 REGULATORY APPROVAL,  
 PERMIT OR  
 CONSTRUCTION DATE  
 (08/13/2023)

**APPROVED BY:** JEF

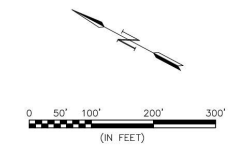
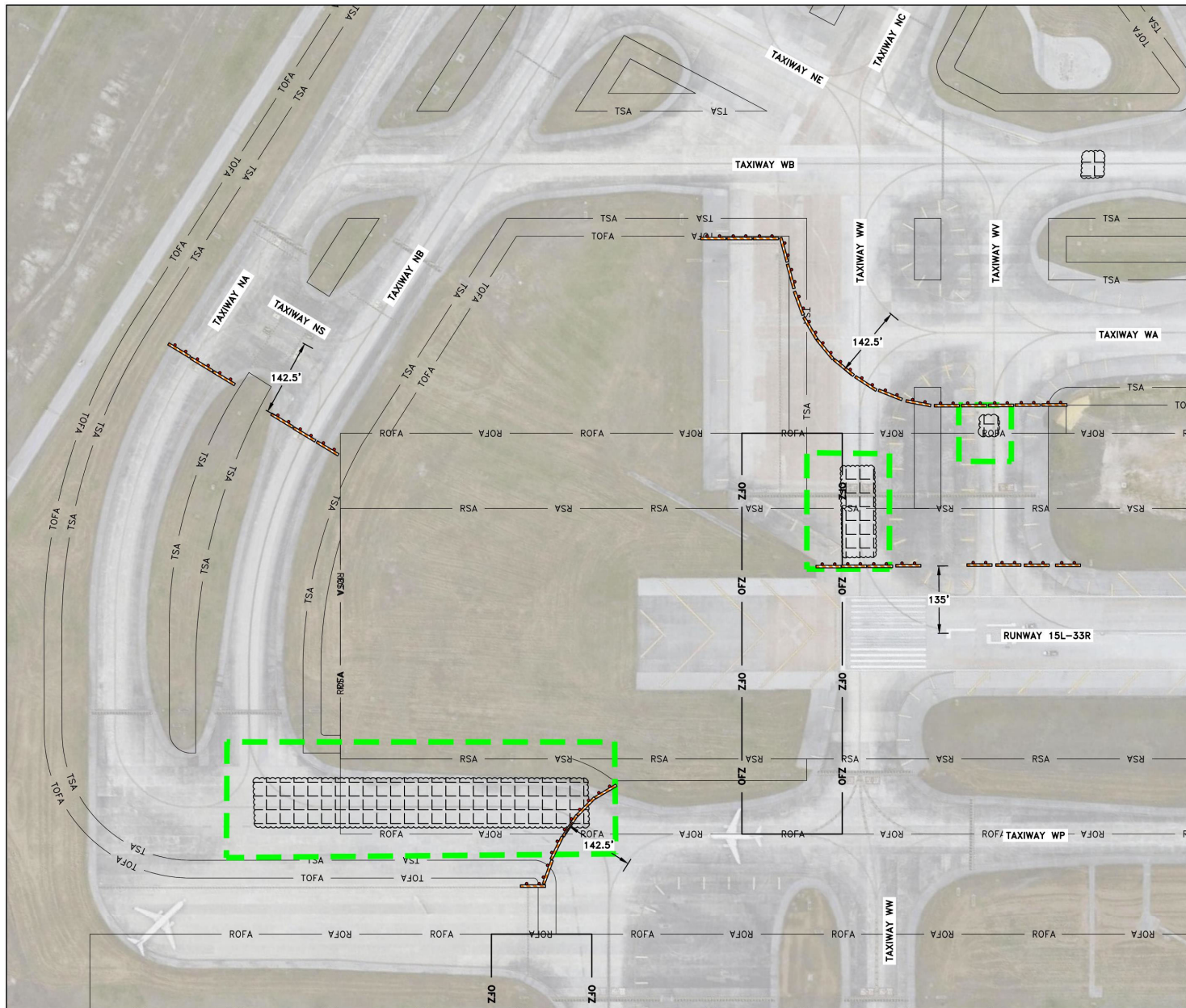
**DESIGNER:**  
HOUSTON AIRPORT SYSTEM

PROJECT NO.	0646A
ALP. NO.	XXXX
CLP. NO.	A-0515
H.A.S. NO.	20C0646A
SHEET NO.	

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 LOT DATE: 3/10/2022 11:06:43 AM



# Miscellaneous repair



### LEGEND

- PROPOSED CRACK, PATCH, AND PANEL REPAIR AREA
- RSA - RUNWAY SAFETY AREA
- ROFA - RUNWAY OBJECT FREE AREA
- TSA - TAXIWAY SAFETY AREA
- TOFA - TAXIWAY OBJECT FREE AREA
- LOW-PROFILE BARRICADE
- PHASING WORK AREA

- NOTES:**
1. WORK HOURS SHALL BE THE NIGHTTIME WORK HOURS OF 10:00PM TO 6:00AM OR AS DIRECTED BY HAS AIRSIDE OPERATIONS AND THE HAS PROJECT MANAGER.
  2. WORK WITHIN THE RSA WILL REQUIRE RUNWAY CLOSURE AND CLOSE COORDINATION WITH HAS OPERATIONS AND PROJECT MANAGER.
  3. CONTRACTOR SHALL USE EXTREME CAUTION WHILE MOVING ON ACTIVE TAXIWAYS AND SHALL ONLY USE APPROVED HAUL ROUTES FOR TRANSPORTATION PURPOSES.
  4. REQUIREMENTS TO REOPEN: THE PHASING AREA WILL REOPEN AFTER EACH WORK PERIOD IN ORDER TO SERVICE AIR TRAFFIC THROUGH THE DAY. ALL BARRICADES MUST BE REMOVED; ALL FOD MUST BE REMOVED; ALL DROP OFFS EXCEEDING 3 INCHES AND ALL GRADES IN EXCESS OF 5% MUST BE CORRECTED WITHIN WORK AREA.
  5. CONTRACTOR SHALL PLAN FOR A 2 HOUR CLEAN UP AFTER EACH WORK PERIOD IN ORDER TO ACCOMMODATE INSPECTION FOM IAH AIRPORT OPERATIONS AND ENSURE COMPLIANCE WITH FAA STANDARDS FOR THE REOPENING OF TAXIWAYS BY 6:00AM.
  6. CONSTRUCTION LIMITS AREA APPROXIMATE AND WILL BE CONFIRMED WITH RPR AND/OR HAS PROJECT MANAGER PRIOR TO STARTING ANY WORK.
  7. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, HAND HOLES, AIRFIELD EQUIPMENT, DRAINAGE STRUCTURES, AND BUILDINGS NOT SHOWN FOR DEMOLITION. ANY DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.



REVISIONS

NO.	DESCRIPTION	DATE

GEORGE BUSH INTERCONTINENTAL AIRPORT  
 REHABILITATION OF TAXIWAYS SA & SB  
**PHASING PLAN - PAVEMENT REHAB 2**

PROJECT WORK: JEF  
 DESIGNER: KHR  
 DRAWN BY: DAG  
 CHECK BY: JEF  
 SCALE: 1" = 100'  
 DATE: 04/28/2023

JASON E FRANK  
 TEXAS REGISTRATION  
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 ONLY. DESIGN  
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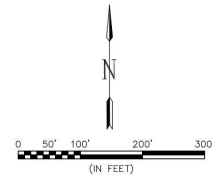
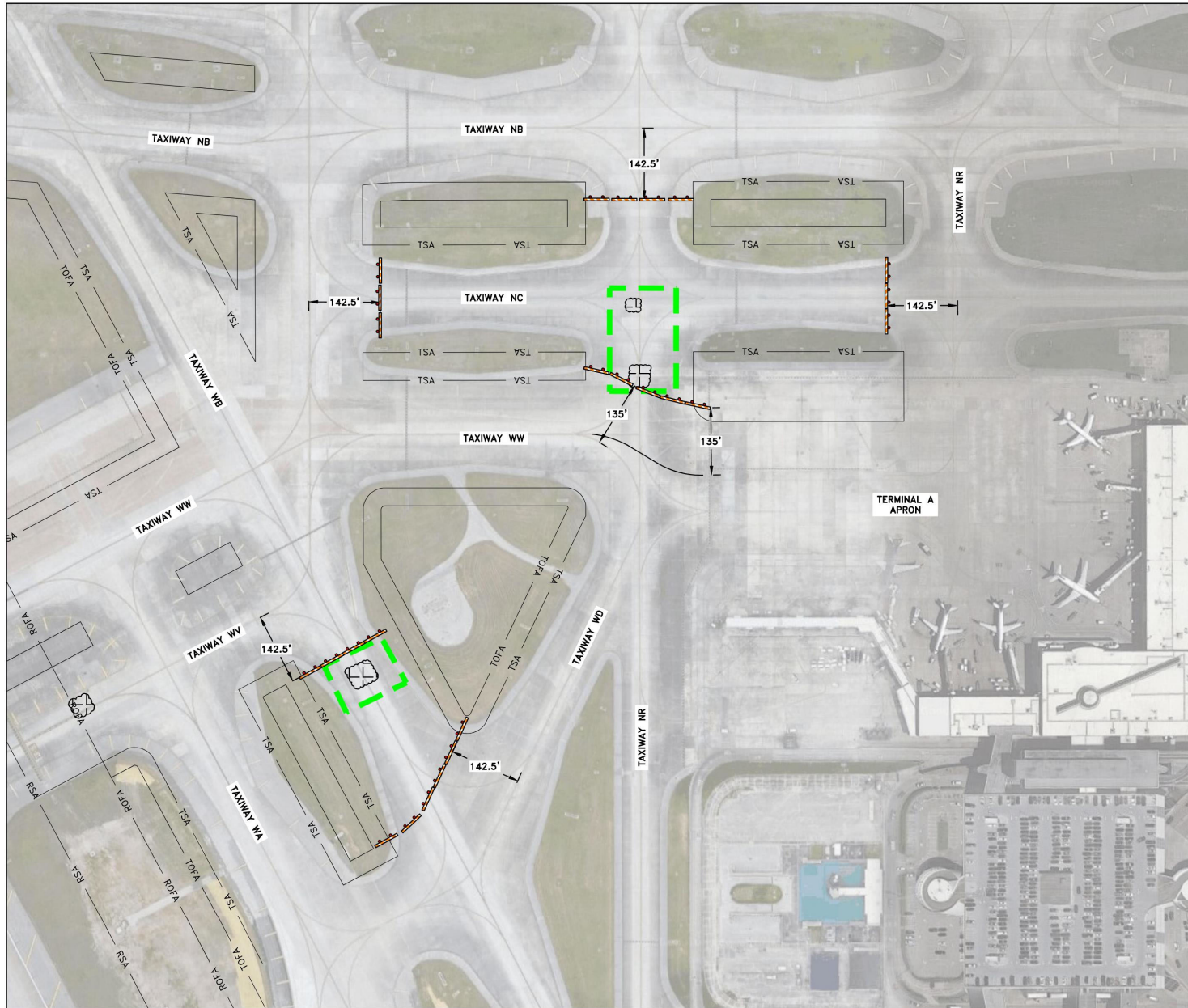
APPROVED BY: JEF

HOUSTON AIRPORT SYSTEM

PROJECT NO.	0646A
ALP. NO.	XXXX
CLP. NO.	A-0515
H.A.S. NO.	20C0646A
SHEET NO.	G04 02

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 LOT DATE: 3/10/2022 11:06:43 AM

# Miscellaneous repair



LEGEND	
	PROPOSED CRACK, PATCH, AND PANEL REPAIR AREA
— RSA —	RUNWAY SAFETY AREA
— ROFA —	RUNWAY OBJECT FREE AREA
— TSA —	TAXIWAY SAFETY AREA
— TOFA —	TAXIWAY OBJECT FREE AREA
	LOW-PROFILE BARRICADE
	PHASING WORK AREA

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#### KEYMAP



#### REVISIONS

NO.	DESCRIPTION	DATE	BY

### PHASING PLAN - PAVEMENT REHAB 3

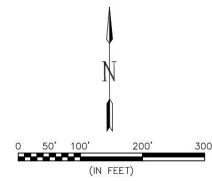
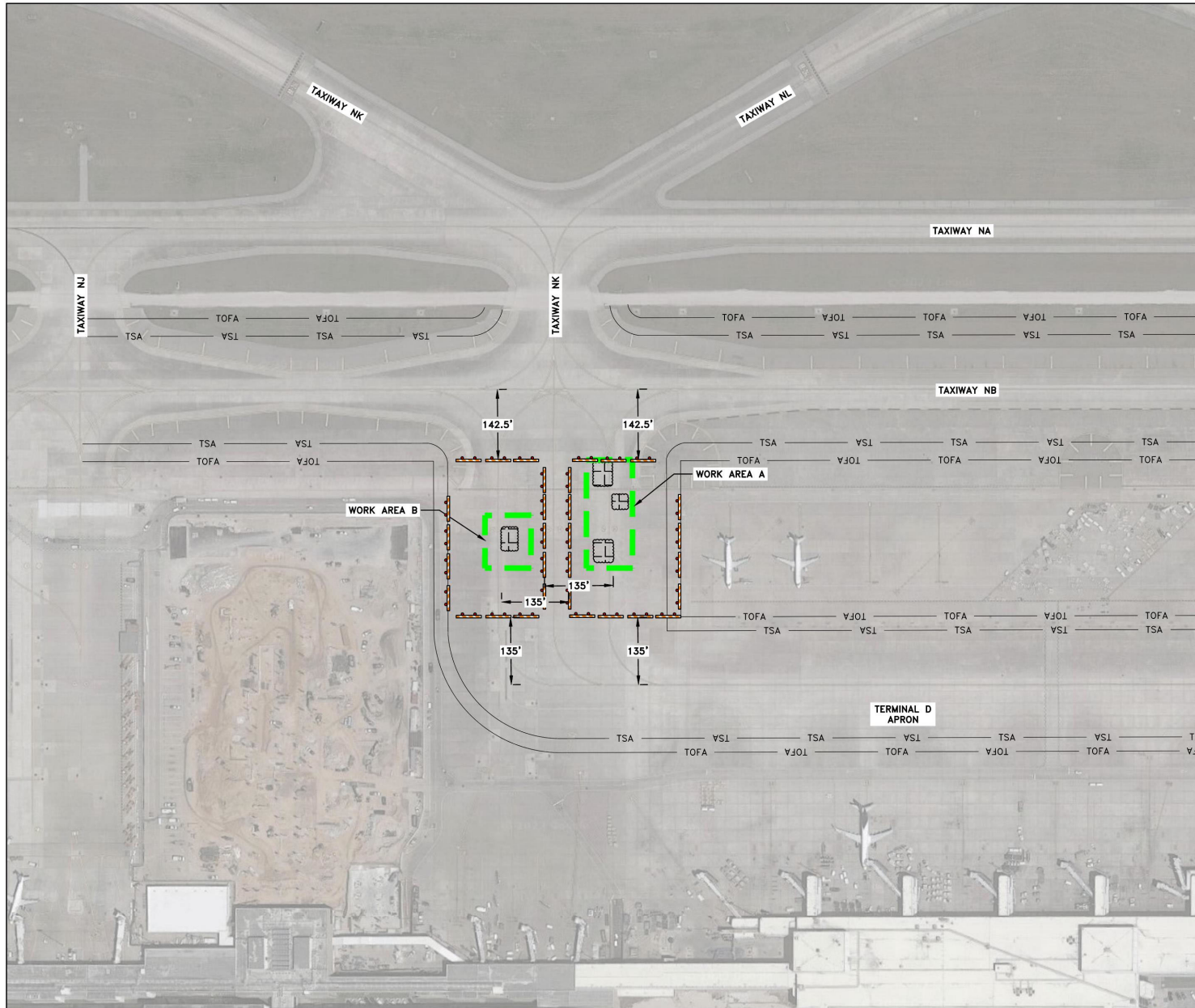
PROJECT WORK:	JEF
DESIGNER:	KRR
DRAWN BY:	DAG
CHECK BY:	JEF
SCALE:	1" = 100'
DATE:	04/28/2023

JASON E FRANK  
 TEXAS REGISTRATION  
 87979 FOR REVIEW  
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 DOCUMENTS DEPICTED  
 HERE IN ARE  
 INCOMPLETE AND MAY  
 NOT BE USED FOR  
 REGULATORY APPROVAL,  
 PERMIT OR  
 CONSTRUCTION DATE  
 (08/13/2023)


APPROVED BY: JEF


PROJECT NO.	
ALP NO.	0646A
CJP NO.	XXXX
HAS NO.	A-0515
SHEET NO.	20C0646A


# Miscellaneous repair





**LEGEND**


 PROPOSED CRACK, PATCH, AND PANEL REPAIR AREA


 -RSA- RUNWAY SAFETY AREA

 -ROFA- RUNWAY OBJECT FREE AREA

 -TSA- TAXIWAY SAFETY AREA

 -TOFA- TAXIWAY OBJECT FREE AREA

 LOW-PROFILE BARRICADE

 PHASING WORK AREA

- NOTES:**
1. WORK HOURS SHALL BE THE NIGHTTIME WORK HOURS OF 10:00PM TO 6:00AM OR AS DIRECTED BY HAS AIRSIDE OPERATIONS AND THE HAS PROJECT MANAGER.
  2. CONTRACTOR SHALL USE EXTREME CAUTION WHILE MOVING ON ACTIVE TAXIWAYS AND SHALL ONLY USE APPROVED HAUL ROUTES FOR TRANSPORTATION PURPOSES.
  3. REQUIREMENTS TO REOPEN: THE PHASING AREA WILL REOPEN AFTER EACH WORK PERIOD IN ORDER TO SERVICE AIR TRAFFIC THROUGH THE DAY. ALL BARRICADES MUST BE REMOVED; ALL FOD MUST BE REMOVED; ALL DROP OFFS EXCEEDING 3 INCHES AND ALL GRADES IN EXCESS OF 5% MUST BE CORRECTED WITHIN WORK AREA.
  4. CONTRACTOR SHALL PLAN FOR A 2 HOUR CLEAN UP AFTER EACH WORK PERIOD IN ORDER TO ACCOMMODATE INSPECTION FOM IAH AIRPORT OPERATIONS AND ENSURE COMPLIANCE WITH FAA STANDARDS FOR THE REOPENING OF TAXIWAYS BY 6:00AM.
  5. CONSTRUCTION LIMITS AREA APPROXIMATE AND WILL BE CONFIRMED WITH RPR AND/OR HAS PROJECT MANAGER PRIOR TO STARTING ANY WORK.
  6. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, HAND HOLES, AIRFIELD EQUIPMENT, DRAINAGE STRUCTURES, AND BUILDINGS NOT SHOWN FOR DEMOLITION. ANY DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
  7. CONTRACTOR SHALL WORK IN AREA A OR B, NOT SIMULTANEOUSLY IN BOTH TO ENSURE TAXILANE AVAILABILITY FOR TERMINAL D APRON.

**KEYMAP**



REVISIONS

NO.	DESCRIPTION	DATE	BY

GEORGE BUSH INTERCONTINENTAL AIRPORT  
 REHABILITATION OF TAXIWAYS SA & SB  
**PHASING PLAN - PAVEMENT REHAB 4**

PROJECT WORK: JEF  
 DESIGNER: HOOR  
 DRAWN BY: DAG  
 CHECK BY: JEF  
 SCALE: 1" = 100'  
 DATE: 04/28/2023

JASON E. FRANK  
 TEXAS REGISTRATION  
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 REGULATORY APPROVAL,  
 PERMIT OR  
 CONSTRUCTION DATE  
 (08/13/2023)

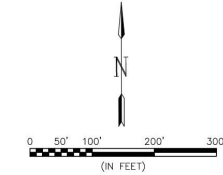
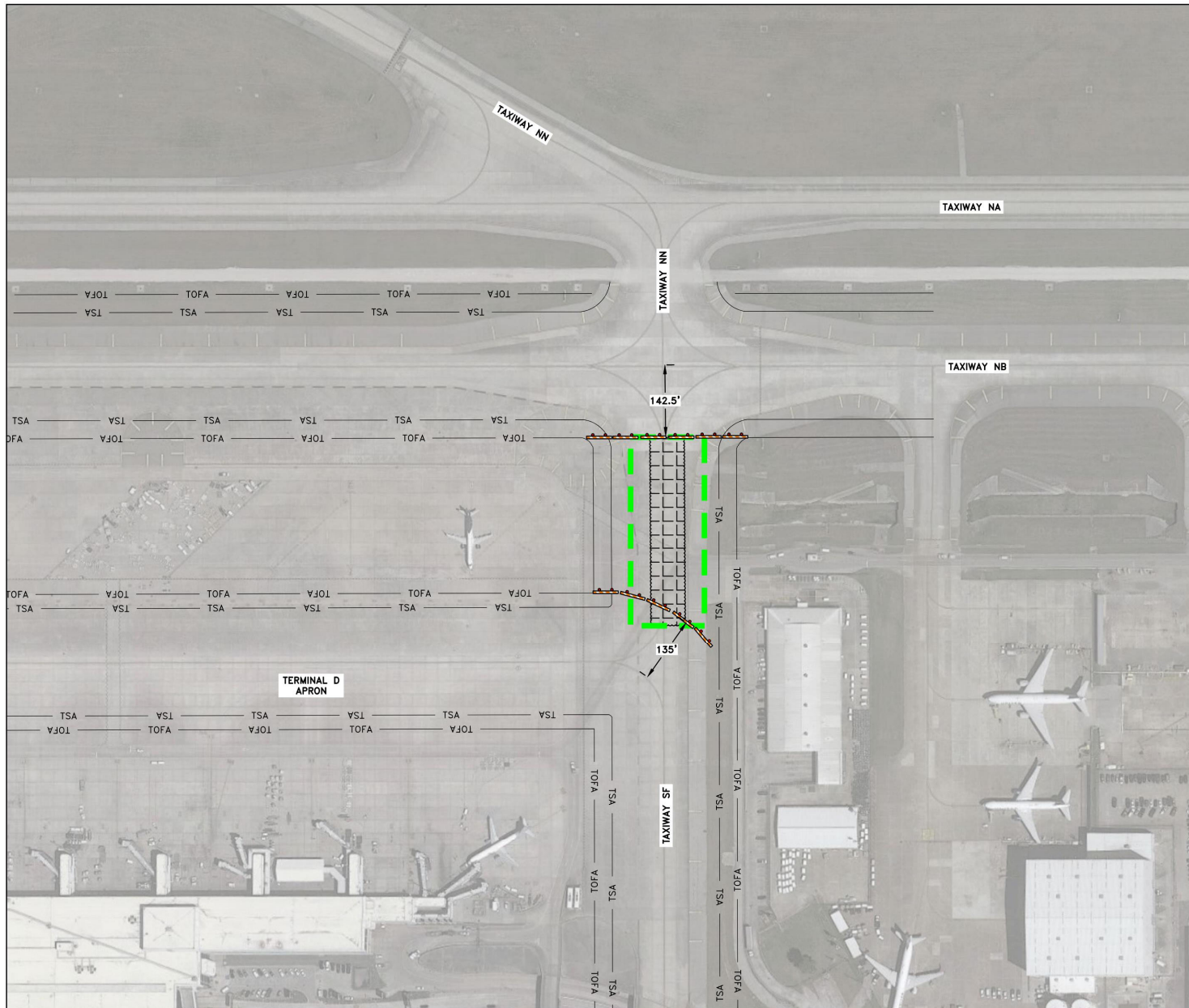
APPROVED BY: JEF




HOUSTON AIRPORTS SYSTEM

PROJECT NO.	0646A
ALP. NO.	XXXX
CLP. NO.	A-0515
H.A.S. NO.	20C0646A
SHEET NO.	

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# Miscellaneous repair



LEGEND	
	PROPOSED CRACK, PATCH, AND PANEL REPAIR AREA
— RSA —	RUNWAY SAFETY AREA
— ROFA —	RUNWAY OBJECT FREE AREA
— TSA —	TAXIWAY SAFETY AREA
— TOFA —	TAXIWAY OBJECT FREE AREA
	LOW-PROFILE BARRICADE
	PHASING WORK AREA

**NOTES:**

1. WORK HOURS SHALL BE THE NIGHTTIME WORK HOURS OF 10:00PM TO 6:00AM OR AS DIRECTED BY HAS AIRSIDE OPERATIONS AND THE HAS PROJECT MANAGER.
2. CONTRACTOR SHALL USE EXTREME CAUTION WHILE MOVING ON ACTIVE TAXIWAYS AND SHALL ONLY USE APPROVED HAUL ROUTES FOR TRANSPORTATION PURPOSES.
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5. CONSTRUCTION LIMITS AREA APPROXIMATE AND WILL BE CONFIRMED WITH RPR AND/OR HAS PROJECT MANAGER PRIOR TO STARTING ANY WORK.
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7. CONTRACTOR SHALL MAINTAIN VSR ACCESS THROUGH WORK AREA FOR DURATION OF WORK. IF WORK IS NEEDED WITHIN THE VSR, CONTRACTOR WILL PROVIDE TEMPORARY VSR THROUGH WORK AREA.

**KEYMAP**



REVISIONS		
NO.	DESCRIPTION	DATE BY

GEORGE BUSH INTERCONTINENTAL AIRPORT  
 REHABILITATION OF TAXIWAYS SA & SB  
**PHASING PLAN - PAVEMENT REHAB 5**

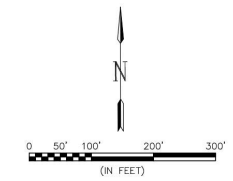
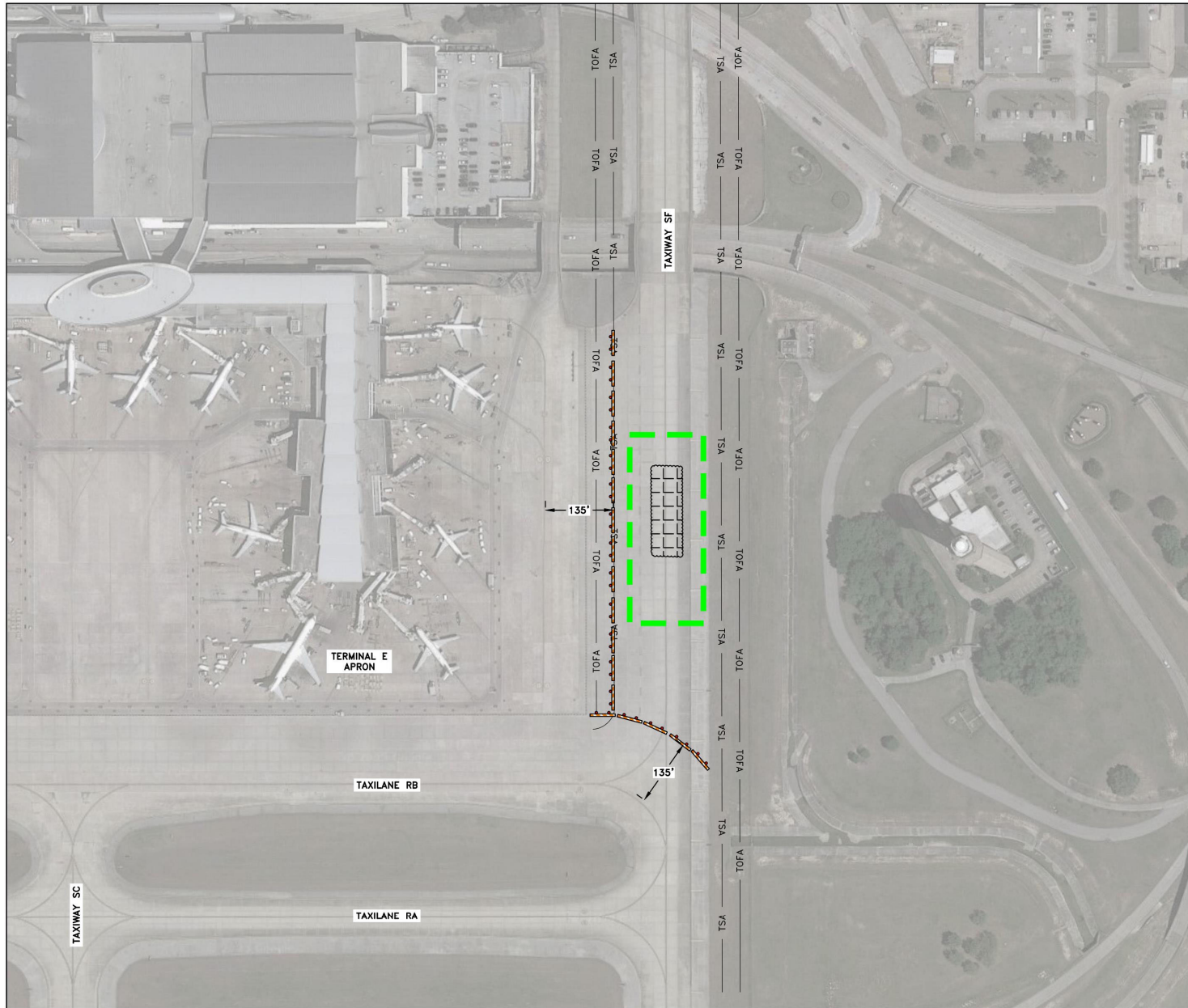
PROJECT MGR:	JEF
DESIGNER:	KOR
DRAWN BY:	DAG
CHECK BY:	JEF
SCALE:	1" = 100'
DATE:	04/28/2023

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APPROVED BY:	JEF
PROJECT NO.	0646A
ALP. NO.	XXXXX
CLP. NO.	A-0515
H.A.S. NO.	20C0646A
SHEET NO.	G04.05

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# Miscellaneous repair



LEGEND	
	PROPOSED CRACK, PATCH, AND PANEL REPAIR AREA
	- RSA - RUNWAY SAFETY AREA
	- ROFA - RUNWAY OBJECT FREE AREA
	- TSA - TAXIWAY SAFETY AREA
	- TOFA - TAXIWAY OBJECT FREE AREA
	LOW-PROFILE BARRICADE
	PHASING WORK AREA

- NOTES:**
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REVISIONS		
NO.	DESCRIPTION	DATE BY

GEORGE BUSH INTERCONTINENTAL AIRPORT  
REHABILITATION OF TAXIWAYS SA & SB

**PHASING PLAN - PAVEMENT REHAB 6**

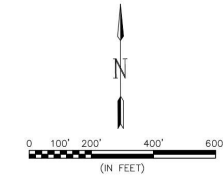
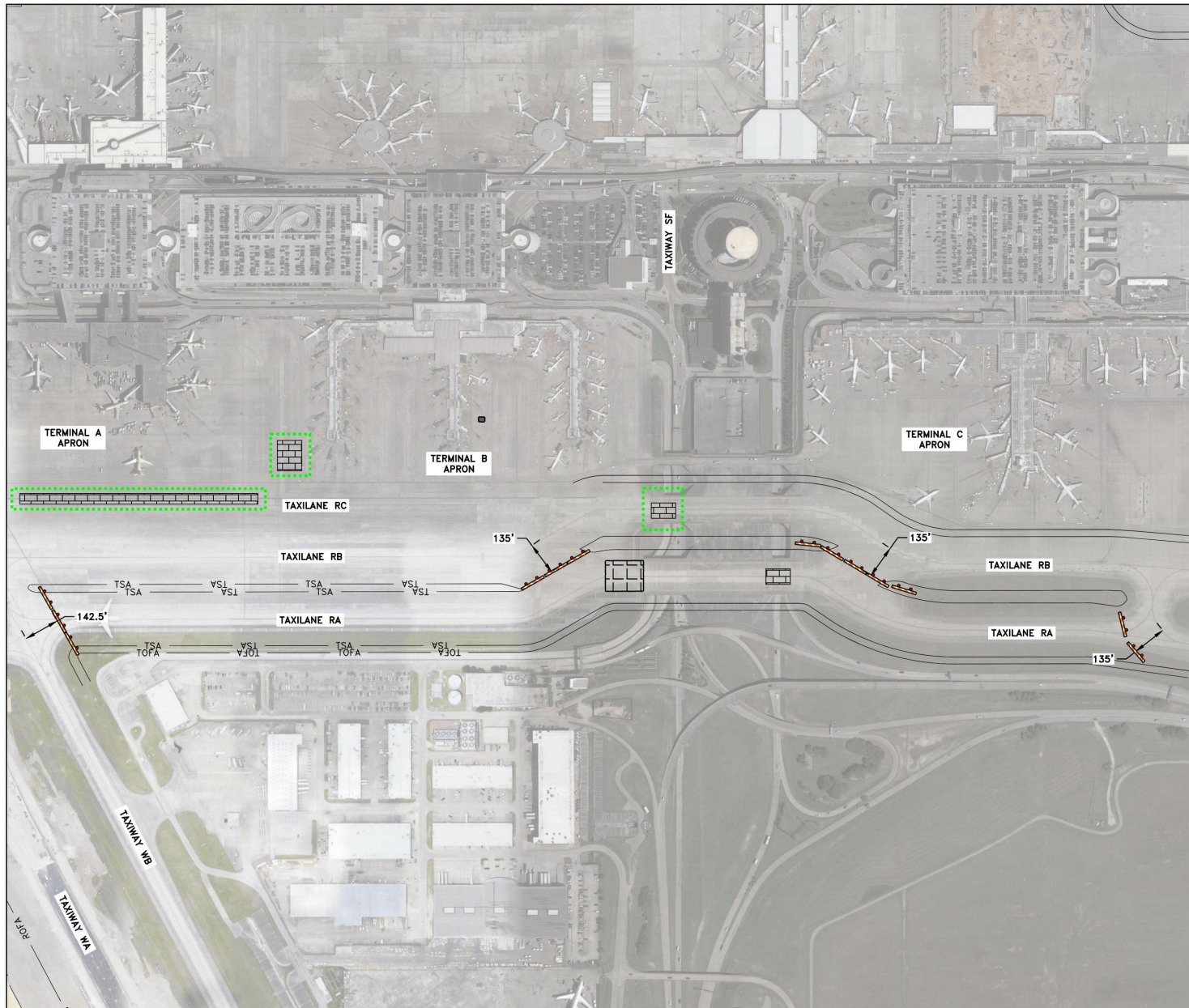
PROJECT WORK:	JEF
DESIGNER:	KORR
DRAWN BY:	DAG
CHECK BY:	JEF
SCALE:	1" = 100'
DATE:	04/28/2023




JASON E. FRANK  
TEXAS REGISTRATION  
87979 FOR REVIEW  
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DOCUMENTS DEPICTED  
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NOT BE USED FOR  
REGULATORY APPROVAL,  
PERMIT OR  
CONSTRUCTION DATE  
(09/13/2023)

APPROVED BY:	JEF
DESIGNER:	HOUSTON AIRPORT SYSTEM
PROJECT NO.:	0646A
ALP. NO.:	XXXX
CLP. NO.:	A-0515
H.A.S. NO.:	20C0646A
SHEET NO.:	

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LOT DATE: 3/10/2022 11:06:43 AM

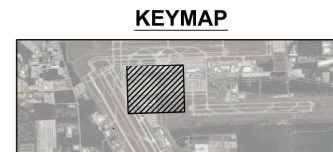
# Miscellaneous repair



LEGEND	
	PROPOSED CRACK, PATCH, AND PANEL REPAIR AREA
— RSA —	RUNWAY SAFETY AREA
— ROFA —	RUNWAY OBJECT FREE AREA
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**NOTES:**

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REVISIONS		
NO.	DESCRIPTION	DATE BY

GEORGE BUSH INTERCONTINENTAL AIRPORT  
 REHABILITATION OF TAXIWAYS SA & SB  
**PHASING PLAN - PAVEMENT REHAB 7**

PROJECT NO.:	JEF
DESIGNER:	KBS
DRAWN BY:	DAG
CHECK BY:	JEF
SCALE:	1" = 200'
DATE:	04/28/2023

JASON E. FRANK  
 TS245 REGISTRATION  
 87978 FOR REVIEW  
 ONLY. DESIGN  
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 CONSTRUCTION DATE  
 (06/13/2023)

APPROVED BY:	JEF
PROJECT NO.	0646A
ALP. NO.	XXXXX
CLP. NO.	A-0515
H.A.S. NO.	20C0646A
SHEET NO.	G04.07



## **Project Overview and Scope**

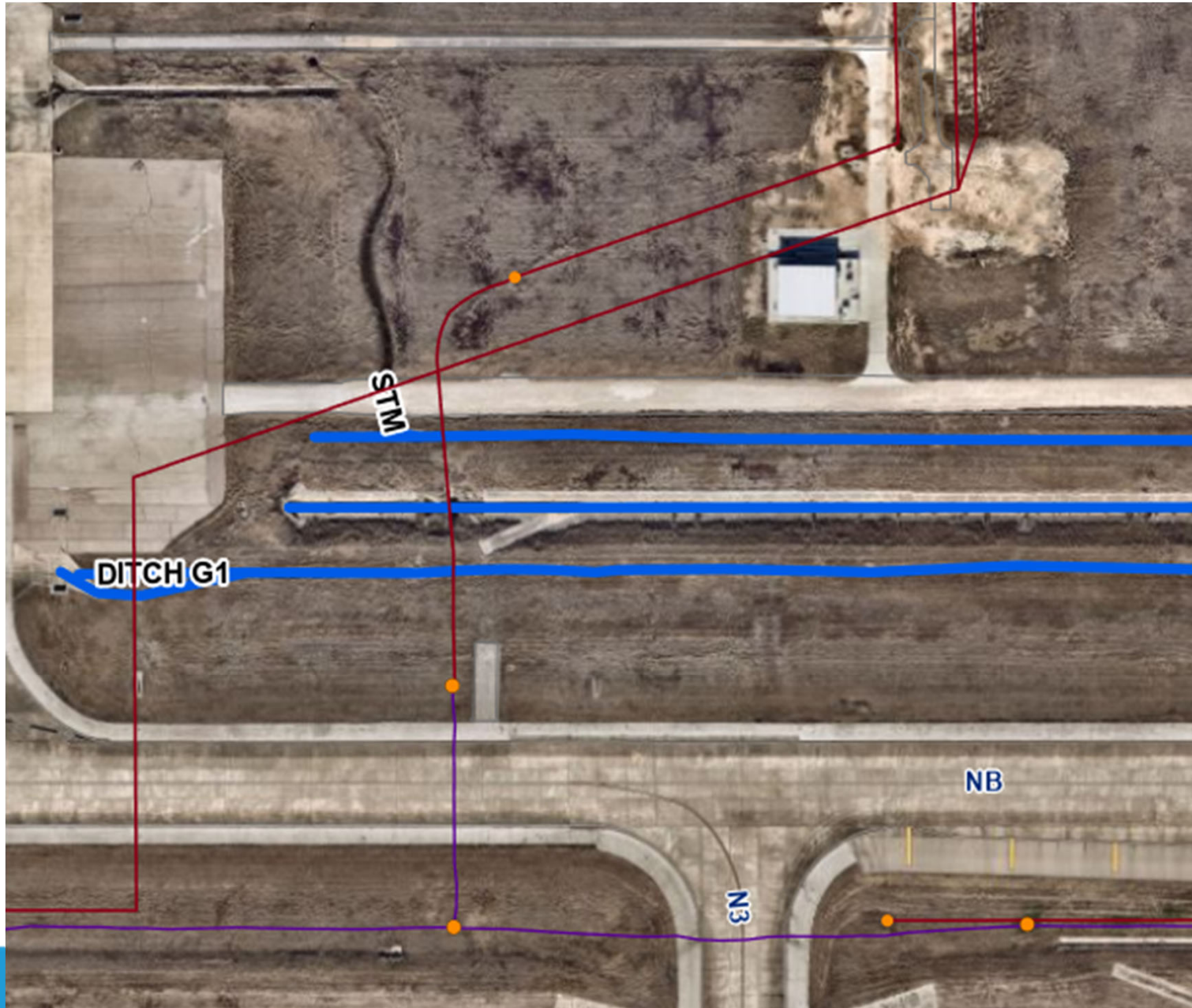
**Additional Alternate #4: Ditch G Duct Bank Relocation  
(To be added via an Addendum)**

# Ditch G Duct Bank Relocation





# Ditch G Duct Bank Relocation





## Document 0410B

**F1. TOTAL BASE BID PRICE:** \$ \_\_\_\_\_  
(Add Totals for Stipulated Price, Base Unit Price, Extra Unit Price, and Cash Allowance)

**F2. TOTAL ADDITIVE ALTERNATE #1 BID PRICE:** \$ \_\_\_\_\_

**F3. TOTAL ADDITIVE ALTERNATE #2 BID PRICE:** \$ \_\_\_\_\_

**F4. TOTAL ADDITIVE ALTERNATE #3 BID PRICE:** \$ \_\_\_\_\_

**F5. TOTAL ADDITIVE ALTERNATE #4 BID PRICE:** \$ \_\_\_\_\_

**\*\*\* F6. GRAND BID TOTAL (F1+F2+F3+F4+F5):** \$ \_\_\_\_\_

\*\*\* City reserves the right to choose not to add any alternates to the Base Bid Price or add any one or multiple alternates to the Base Bid Price. Evaluation shall be based on 'Grand Bid Total' amount.



## Questions

- To be official, questions must be in writing and submitted via email to:  
[jorge.ardines@houstontx.gov](mailto:jorge.ardines@houstontx.gov)
- Answers will be posted on the HAS website as an Addendum:  
<http://www.fly2houston.com>



## Project Site Visit

**Site Visit:** Thursday, April 4, 2023, at 3:00 P.M. (CT), immediately after the pre-bid conference.



## Closing Remarks

**THANK  
YOU**