



# HOUSTON AIRPORT SYSTEM INDUSTRY DAY 2023

Tuesday, February 28, 2023  
10:00 a.m.

HAS IDO Building, Auditorium 1 & 2  
111 Standifer Street  
Humble, Texas 77338





# HAS INDUSTRY DAY AGENDA

## February 28, 2023



- I. Welcome & Introductions of Senior Team, *Kellie Irving, Deputy Asst. Director - OBO***
  - a. HAS Senior Team Remarks
  - b. Interim Chief Development Officer, *Gary High*
    - 1. Overview-HAS Infrastructure Business Unit
    - 2. Executive Programs
- II. Executive Program Updates**
  - a. ITRP Progress, *Steve Andersen*
  - b. Domestic Expansion Program, *Steve Andersen*
  - c. Major Projects Portfolio, *Barry Gardebled*
- III. Building Standards Group Updates, *Guillermo Cabrera, Asst. Director BSG***
- IV. Networking (Lunch) Break \*25 minutes\***

- I. Upcoming Design Opportunities, *Geovanny Osorio, Interim Asst. Director – Infrastructure Design***
  - a. Large On Call Design
  - b. Small On Call Design
  - c. RFQs
- II. HAS Project Delivery Updates, *Nicole Robinson Owens, Asst. Director - Infrastructure Project Delivery***
  - a. CY2023 Upcoming Projects – IAH | HOU | EFD
- III. Project Controls Briefing, *Judith Odera, Asst. Director - Infrastructure Controls***
  - a. Controls System Overview
- IV. Procurement Overview, *Cathy Vander Plaats, Aviation Procurement Officer***
- V. OBO Presentation, *Kellie Irving, Deputy Assistant Director - OBO***
- VI. Question & Answer Opportunity**
- VII. Adjourn**



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# Welcome & Introductions

*Kellie Irving, Deputy Assistant Director – Office of Business Opportunity*



# INDUSTRY DAY 2023

INFRASTRUCTURE DIVISION

**HAS Infrastructure Division**  
***Gary High, Interim Chief Development Officer***



# HAS Infrastructure Division

*Gary High, Interim Chief Development Officer*



# HAS Infrastructure Division Organization Updates

Chief Executive Officer – Mario Diaz

Chief Operating Officer – Jim Szczesniak

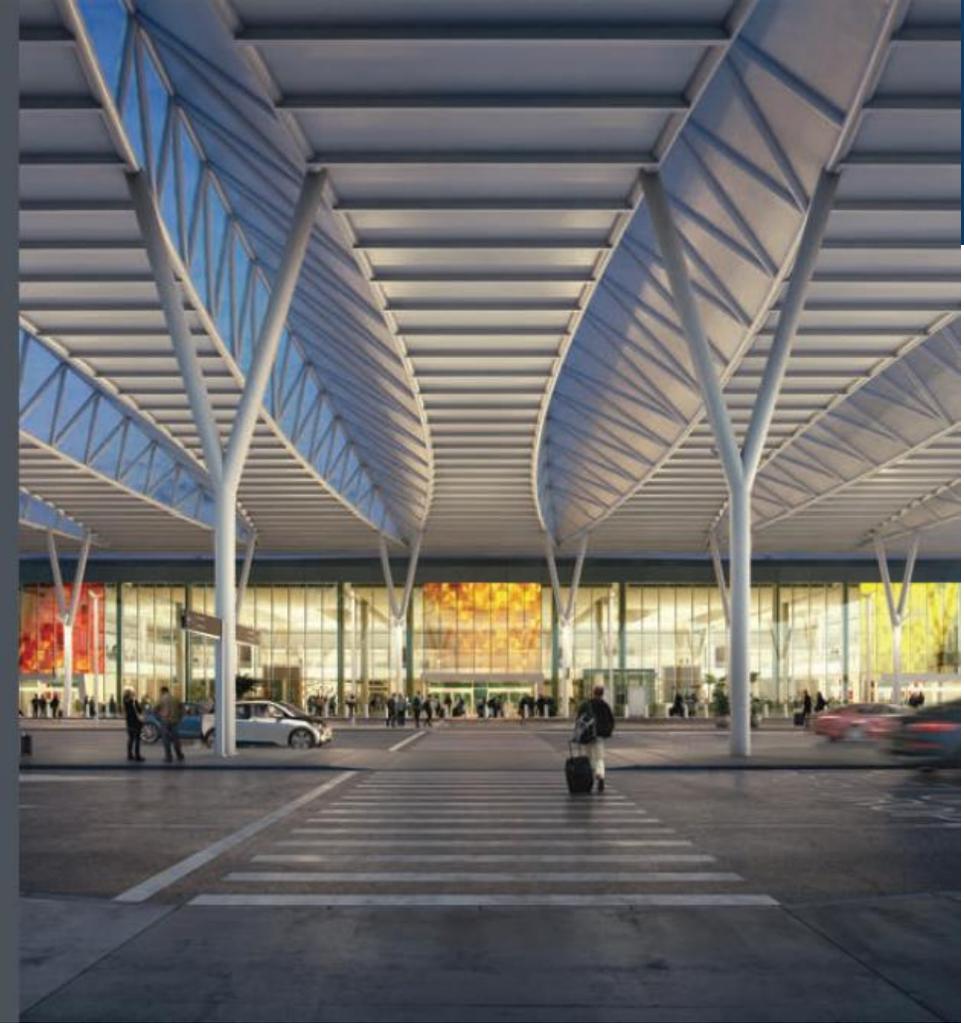
Interim Chief Development Officer – Gary High

- City Engineer – Eren Selcen, PE
- Director Building Standards – Guillermo Cabrera
  - Tenant Improvement Process
  - Building Standards
  - Energy Management
- Director of Resiliency – David Robbins
- Director Planning & Development – Karen Korir
  - AD Planning – Francois Bijotat
  - DM Airport Spatial Information Services (ASIS) – Bill Zrioka
  - Environmental
  - Sustainability
- Interim AD Design Management – Geovanny Osorio
- Assistant Director Project Delivery – Nicole Owens
- Assistant Director Project Controls – Judith Odera
- Assistant Director Construction Management (QAQC) – Gary High



**CHANGE IS  
COMING TO IAH**

**NEW TERMINAL  
IN THE MAKING**



## **IAH Terminal Redevelopment Program Update**





# International Terminal

# International Terminal - Construction Time-lapse Video





# International Terminal Enabling Projects

# Radio Intermediate Distribution Frame (RIDF) Relocation - Completed

- The RIDF is a key component that supports over 25,000 radio subscribers.
- RIDF supports the system providing >1,700 square miles of radio coverage for mission critical first responders.
- The top of the tower stands at 217 feet tall.
- The new RIDF site, tower and shelter all have been designed for room for expansion.
- Over 36,000 lbs. of batteries. (96 batteries @ 383lbs each= 36,768 lbs.)



## IAH Regional Detention Pond – Completed



- Part of and works in coordination with the IAH regional detention system.
- 1500 ft long, 290 ft wide and about 12 feet deep.
- The pond has a capacity of roughly **50 Acre feet** (enough water to cover 50 acres in 1ft deep of water) or 2,200,000 cubic feet.
- The pond can flow water from Garners bayou at a rate of over **2,000 cubic feet per second** and prevents the bayou water level from rising at an uncontrolled rate providing flood protection for the surrounding area.
- It was designed in coordination with Harris County Flood Control District and fits into their long-term plan for this drainage watershed.

## Enabling Utilities Landside Water Project - IAH New Pump Station #3





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# Domestic Expansion

Steven Andersen, *Manager, Executive Programs*

# Domestic Expansion

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## Key Activities:

- Work is underway to evaluate the best solution for the domestic airline's requirements
- Program Definition Manual (PDM's) being developed - expected completion in mid-summer
- Coordination with Terminal A Carriers
- Coordination with the United Terminal B Program
- Coordination with the Major Projects Portfolio (MPP)

## Upcoming Solicitations:

- Program Management Support Services (PMSS)
  - Expected release Q2 / Q3 2023
  - The PMSS firms will be providing program management roles, staff augmentation and may be asked to provide proposals for service based taskings
  - Services will be provided by two or three PMSS firms for; the Domestic Expansion Program, MPP and any other staff augmentation roles that may be required



# INDUSTRY DAY 2023

## Major Projects

**Barry Gardebled, *Program Manager***



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# Major Projects Portfolio

## Skyway (Automated People Mover)

*Barry Gardebled, Program Manager*



# Background - Skyway (Automated People Mover)

Major Projects Portfolio, *Barry Gardebled, Program Manager*

- **Background**

- Formerly known as the TerminaLink
- Provides Secure Side Conveyance
- Inservice
  - Phase 1 – 1999
  - Phase 2 – 2005
  - Phase 3 – 2010
- Periodic Assessments
  - Original Equipment
    - Reaching End Of Service Life
  - System Modernization



# Overview - Skyway (Automated People Mover)

Major Projects Portfolio, *Barry Gardebled, Program Manager*

- **Overview**
  - Design Build Operate And Maintain (DBOM)
  - Full Fleet Replacement
  - Automatic Train Control (ATC)
  - Retrofit/Refurbish Of Facility Assets
  - Operations And Maintenance (O&M)
    - *25 years*

# Procurement - Skyway (Automated People Mover)

Major Projects Portfolio, *Barry Gardebled, Program Manager*



- **DBOM Procurement**

- One Procurement And One Contract\*
- Request For Qualifications (RFQ)
  - **(Target 2Q 2023)**
- Request For Proposals (RFP)
  - **(Target 3Q 2023)**
- Desired Notice To Proceed (NTP)
  - **(Target 4Q 2023)**
- \*Minority And Women Business Enterprises\*
  - Being established at this time



# Scope of Work - Skyway (Automated People Mover)

Major Projects Portfolio, *Barry Gardebled, Program Manager*

## Full Turnkey System Replacement Including:

- Full Fleet Replacement
- Automatic Train Control(ATC) Replacement
- Retrofit and Refurbish all existing
- APM facilities
  - Stations
  - Guideway
  - MSF
  - Central Control Facility (CCF)
  - Power Distribution Subsystem

# Scope of Work, cont. - Skyway (Automated People Mover)

Major Projects Portfolio, *Barry Gardebled, Program Manager*



- **Communication System Replacement**
  - Telephone
  - Emergency Telephone
  - Dynamic Displays
  - Public Address
  - CCTV
- **Remove and Replace Guideway Running Surface, Guidance Equipment and Power Rail**
- **Remove and Replace Existing Power Distribution Equipment including new wiring and cabling**
- **Remove the Existing Central Control located in Terminal B**
- **Expand the Existing MSF Support Level to allow new Central Control and Support Rooms**
- **System Operation and Maintenance Contract**
  - 1 x Ten (10) Year Initial Term
  - 1 x Ten (10) Year 1<sup>st</sup> Renewal Option
  - 1 x Five (5) Year 2<sup>nd</sup> Renewal Option



# Performance Requirements - Skyway (Automated People Mover)

Major Projects Portfolio, *Barry Gardebled, Program Manager*

- **Fit within the Existing Fixed Facilities Constraints**
- **Fully Automated Trains, without need of Drivers/Attendants**
  - Operate Primarily as a Pinched Loop
  - Bi-directional Operations on Single Guideway Sections for Maintenance/Failure Management
  - Vehicle Capacity
  - Seating Capacity: Minimum 10% - Maximum 15 % of Normal Vehicle Capacity
  - Standing Design Capacity: One passenger for each 2.7 ft<sup>2</sup> of standee floor area
  - Standing Normal Capacity: One passenger for each 3.5 ft<sup>2</sup> of standee floor area
- **Passenger Service Characteristics**
  - Minimum Capacity: 4800 pphpd
  - Maximum Headway: 180 seconds
  - Maximum Station Dwell: 60 seconds



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# Major Projects Portfolio

## Subway (Inter-terminal Train)



# Background – IAH Subway (ITT) Replacement & Expansion

Major Projects Portfolio, *Barry Gardebled, Program Manager*

- **IAH Subway, Inter-Terminal Train (ITT), originally built in 1968, and upgraded in 1972 and 1981**
  - Non-Secure/Landside Automated People Mover
  - Moves 240,00 travelers a month
  - Operates 365 days per year; average 21 hours per day
  - **Asset Management Assessments** have identified the need for full system replacement (end of service life and obsolete parts)
  - **Expansion needs** due to terminal expansion and increase traffic requires the subway to be expanded to:
    - Potential East Developments





# Procurement – IAH Subway (ITT) Replacement & Expansion

Major Projects Portfolio, *Barry Gardebled, Program Manager*

- **IAH Subway ITT Replacement & Expansion**
  - **Scope:** Replace existing system with a modern landside automated people mover (APM), make improvements to the subway tunnel, expand the new APM system and tunnel to selected areas
  - **Method:** Design Build Finance Operate & Maintain (DBOM)
    - With the Potential of a finance option
  - **Two Step:** RFQ/RFP
  - **MWBE:** TBD
  - **Procurement Advertisement:**  
**(Target 4Q 2023)**



# IAH Subway (ITT) Replacement & Expansion

Major Projects Portfolio, *Barry Gardebled, Program Manager*



The Replacement System will retain the existing Station Stops at Terminals A, B, C, D/E and the Airport Marriott

# Procurement - IAH Subway (ITT) Replacement & Expansion

Major Projects Portfolio, *Barry Gardebled, Program Manager*



## **50 Years - Fixed Facility Structures**

- Tunnels, Guideways, Stations, MSF, and All Other Fixed Facility System Related Structures

## **30 Years – Guideway Equipment**

- Running Surfaces
- Guidance Equipment

## **30 Years - Power Distribution System Substations and All Wiring and Cabling**

## **15 Years - ATC , Communication Equipment and All Other Major System Equipment**

## **Vehicle Design Life**

- At Least 30 years or 3,000,000 miles
- Full Rehabilitation of the Vehicle will be permitted at 15 years or 1,500,000 mile

# Solar / Energy Packages

Major Projects Portfolio, *Barry Gardebled, Program Manager*



- **Solar / Energy Resiliency (IAH - 50MW)**
- **Overview:** As additional power demands arise to services the airport system, there is a need for the utilization of multiple technologies to meet the capacity and provide resiliency for the airport systems.
  - **Scope:** Provide an integrated solution, comprised of multiple technologies such as Solar PV, Hydrogen Ready Natural Gas, Battery Storage Utilization, etc. reducing emissions and providing resiliency.
  - **Method:** Design Build Operate & Maintain (DBOM) or with Finance (DBOM-F)
  - **Two Step:** RFI/RFP
  - **MWBE:** TBD
  - **Procurement Advertisement:** Three different procurements
    - (RFI: IAH – Target 2Q 2023)

Note: Currently working to better define what is existing and the demands expected going forward.



# INDUSTRY DAY 2023

**Building Standards Group**  
*Guillermo Cabrera, Assistant Director Building Standards*

# What We Do

Building Standards Group, *Guillermo Cabrera, Assistant Director*



- HAS Infrastructure (INF) Builds 5 Star Airports
- BSG/TIP ensures that the Airport Projects delivered by INF are sound, safe, code compliant, sustainable, efficient and accessible.



**HOU**                      **IAH**  
Houston Airports: Home of the  
First 5-Star Airport in North America

# Divisions Overview

Building Standards Group, *Guillermo Cabrera, Assistant Director*



- **TIP Tenant Improvement Program**



- **BSG Regulatory Compliance**



# TIP – Tenant Improvement Program

Building Standards Group, *Guillermo Cabrera, Assistant Director*



The TIP Program is Responsible for Reviewing all Design and Construction Projects for all Three Airports for Compliance with HAS Design Standards



The TIP Program is also Responsible for updating and revising the HAS Design Standards.

The 2023 HAS Design Standards can be Found on the Fly2Houston Web Page.



# 2023 HAS Design Standards

Building Standards Group, *Guillermo Cabrera, Assistant Director*



## Collaborative Effort



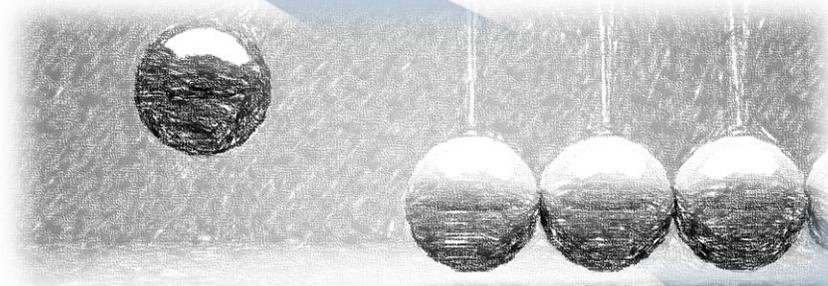
- Using ITRP Design Standards as a starting point.
- Revised to include lessons learned from the ITRP design process.
- HAS and ITRP subject matter experts, Design Managers, Maintenance Managers, and other stake holders. Collaborated in creating the new HAS Design Standards.



## It is a Living Document



- Standards include a provision for Updating, Adding or Revising Sections to keep the Standards Current and up to date.
- Also, there is a provision for Granting Variances for specific situations to accommodate unforeseen events like COVID and supply chain issues.
  - Building Information Modeling (BIM)
  - Sustainability
  - Modular Restroom Standards
  - Aircraft Parking Markings
  - Wayfinding Standards





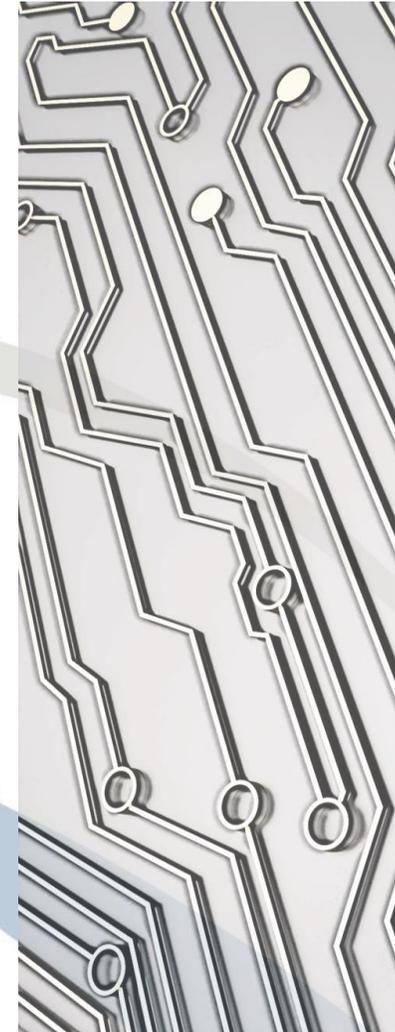
# 2023 HAS Permit Application Process

Building Standards Group, *Guillermo Cabrera, Assistant Director*



Sometimes concurrent.

1. TIP Submittal Review - Typically 10 days.
  - 7460 Form (If required). For all outside construction projects that require a crane or interior projects with radiofrequencies.
2. BSG Submittal Review - Typically 10 days.
  - Geotechnical Report (If required).
  - Health Dept Application. (If required).
  - Asbestos Survey Reports. (If required).
  - TDLR/ RAS/TAS. (If required).
3. TIP- APPROVAL- TIP Stamp.
  - The Applicant will upload the TIP Stamped Set to the BSG portal side for final review.
4. BSG- APPROVAL- BSG Stamp.
5. Contractor Submit Permit Payments Fee.
6. TIP Coordinator - once all documents are received, TIP will coordinate with PM to schedule a Kick- Off and N.T.P. meeting.





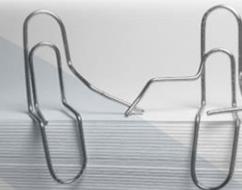
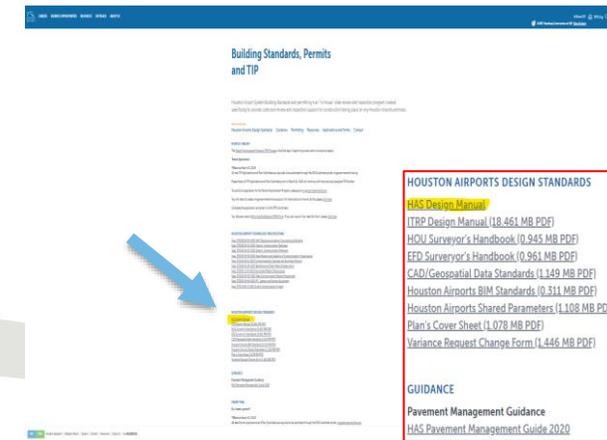
# 2023 HAS Resources & Design Standards

Building Standards Group, *Guillermo Cabrera, Assistant Director*



## CONTACT INFO:

- **Fly To Houston website Link:**  
[www.fly2houston.com](http://www.fly2houston.com)
- **MGO - My Government Online - Permit Submittal for each (TIP & BSG Portal Links):**  
[www.mygovernmentonline.org](http://www.mygovernmentonline.org)
- **Building Standards, Permits and TIP . RESOURCES - STANDARDS : (Design Manual, Variance Request Form, and More...)**  
[www.fly2houston.com/biz/resources/building-standards-and-permits](http://www.fly2houston.com/biz/resources/building-standards-and-permits)
- **TIP Coordinator: Contact information:**  
Call: 1-281-230-8904  
Email: [HAStenant.improvementproject@houstontx.gov](mailto:HAStenant.improvementproject@houstontx.gov)
- **BSG Permit Coordinator:**  
Call: 1-281-233-1051  
Email: [bsg-permitsubmittal@houstontx.gov](mailto:bsg-permitsubmittal@houstontx.gov)





# INDUSTRY DAY 2023

INFRASTRUCTURE DIVISION

**Networking Break  
(25 Minutes)**





# INDUSTRY DAY 2023

INFRASTRUCTURE DIVISION

**Upcoming Design Opportunities**

**Geovanny Osorio - AIA, NCARB**

***Interim Assistant Director, Design***

# Design Team Introduction

Geovanny Osorio, *Interim Assistant Director Design*



## Roles & Responsibilities of Project Design

Effectively manage project Designs associated with HAS Capital Development and Rehabilitation Projects throughout HAS Campuses (IAH, HOU, EFD, and Houston Spaceport), including Terminal, Airside and Landside projects. The **Design Group** focuses on managing production of design & construction contract documents through pre-design, design, procurement, and CA services, and assists other business units, including Planning, Project Delivery, and Project Controls, in the management and successful delivery of projects from inception through completion to all Stakeholders.

### Project Design Team

- Robert “Bob” Plushnick, AIA
- Susan Keil, AIA
- Waldo Maffei, AIA
- Dev R. Pokhrel, PE
- Sabeen Shaikh, PE
- Omar Abdulkareem, PE
- Shahidur Rahman, PE



- **Request For Qualifications (RFQ)**
  - Design Services On-Call Contracts
- **Two Independent Solicitations:**
  - Large On-Call Design Services Contract
  - Small On-Call Design Services Contract
- **PN 982: HOU Rehabilitation of RWY 13R-31L**

# Small On-Call Design Overview

Geovanny Osorio, *Interim Assistant Director - Design*



## Small On-Call Design Contracts

Respondent's must meet the U.S. Small Business Administration (SBA) size standards.

The SBA defines size standards for Architectural businesses as no more than **\$12.5 million** / year in annual receipts and no more than **\$25.5 million** / year in annual receipts for Engineering Services. Respondents should visit the U.S. Small Business Administration size standards *webpage* for the latest standards and requirements.

### **Pre-qualification Submittal Package shall contain, among other requirements:**

- Firm's Management approach
- Firm Background and Experience with Scope of Work, including similar experience
- Qualification and Experience of personnel and any Subconsultants (Minimum qualifications)
- Financial capabilities

***(Full submittal requirements will be listed in the RFQ)***

# Project Types Overview - On-Call Design Contracts

Geovanny Osorio, *Interim Assistant Director - Design*



## On-Call Design Contracts

Introduction - Intended for multiple discipline A/E Consultants.

|                      |                   |                          |                       |                                    |                               |                                |
|----------------------|-------------------|--------------------------|-----------------------|------------------------------------|-------------------------------|--------------------------------|
| Office Remodeling    | Restroom Remodels | Interior Design          | Landscape             | Electrical Modifications           | HVAC & Plumbing Modifications | Energy Efficiency Improvements |
| Wayfinding & Signage | Parking Lots      | Structural Modifications | Drainage Improvements | Roofing / Building Envelope Design | Pavement Repairs              | TAS/ADA & Code Compliance      |



# On-Call Design Contracts

## Typical On-Call Services

| Architectural Services          | Mechanical/Plumbing Eng             | Civil Engineering             | Electrical Engineering  | Plumbing Engineering           |
|---------------------------------|-------------------------------------|-------------------------------|-------------------------|--------------------------------|
| Structural Engineering          | Interior Design                     | Landscape Architecture        | Scheduling              | Constructability Reviews       |
| Construction Administration     | Geotechnical Engineering            | Topographical Engineering     | Wayfinding Signage      | Vertical Transportation        |
| Moisture Protection & Forensics | Governing Agency Code Compliance    | Security                      | Investigative Discovery | Sustainability & Commissioning |
| QA / QC Design                  | Budget Compliance / Cost Estimation | Technology (HAS IT Standards) |                         |                                |

# M/W/DBE Goal Overview

Geovanny Osorio, *Interim Assistant Director Design*



- **Current M/WBE Goals for Large On-Call Contract is 31%**
- **Current M/WBE Goals for Small On-Call Contract is 24%**
- **Current contract term expires in 2024.**
- **M/W/DBE\* goals for the upcoming Large & Small Contracts are currently under consideration and will be listed by OBO in RFQ when posted.**
- **Anticipated Contract Term**
  - **To be specified in RFQ when posted for Solicitation.**
- **Anticipated Solicitation Date**
  - **2023 – 2nd Qtr.**
- **Anticipated Award Date:**
  - **Will be listed in the Solicitation Schedule of the RFQ.**

# PN 982 HOU Rehabilitation of RWY 13R-31L

Anmar Al Rikabi, *Project Manager*

Dev Pokhrel, *Design Manager*



## Project Objectives:

- Full Depth Concrete Pavement
- Connectors and High-Speed Exits
- Airfield Lighting, Marking, Signs Upgrades
- FAA Standards

## Delivery Method:

- Design Bid Build (CSP)
- Federal Funding Requirements-DBE Participation

## Project Status:

- RFQ : Advertisement 2<sup>nd</sup> Qtr. 2023



**GRANT ELIGIBLE**



William P. Hobby Airport

Our Vision:  
Establish  
Houston as a  
Five-Star Global  
Gateway where  
*the magic  
of flight is  
celebrated*

George Bush  
Intercontinental  
Airport

# INDUSTRY DAY 2023

INFRASTRUCTURE DIVISION

**Nicole Robinson Owens, MPM, CQM**  
***Assistant Director, Project Delivery***

# Project Delivery Team Overview

Nicole Robinson Owens, *Assistant Director, Project Delivery*



## Roles & Responsibilities of Project Delivery

Manage the effective delivery of projects associated with HAS Capital Development and Rehabilitation Projects throughout HAS Campuses including Terminal, Airside and Landside. JOC Program. Project initiation, Capital Programming and Grants.

### Project Delivery Team

- Zafar Ahmed
- John Allen
- Anmar AlRikabi
- Joe Alvarez
- Korvin Banks
- Christopher Bunn
- Armistead Burks
- Eric Cardwell
- Joel Cotter
- Rodney Dove
- Roger Hebert
- Malaika James
- Arshad Khan
- Robert Lengefeld
- David Scott
- Jeffrey Tennyson
- Gerardo Velazquez



# Annual Project Delivery Projections

Nicole Robinson Owens, *Assistant Director, Project Delivery*



|           |     | QUARTER 1                                | QUARTER 2  | QUARTER 3                        | QUARTER 4                        |
|-----------|-----|--|--|----------------------------------|----------------------------------|
| AIR FIELD | HOU | PN770A Non Std Taxiway Realignment       |  |                                  | PN939 SIDA Booth Improvements    |
|           | IAH |  | PN646A TW SA, SB   | PN973 RON Terminal A Infill      | PN646B TW RA, RB                 |
|           | EFD |  |  | PN954 Drainage Structure Repairs |                                  |
| TERMINALS | HOU |  | PN209B HOU Restroom Renovations Phase 3<br>PN950 Restroom Rehabilitation Modernization |                                  |                                  |
|           | IAH | PN257B T/A Vestibule Efficiency Upgrades | PN972 FIS/CBP Signage & Wayfinding   | PN963 FIDS/BIDS Upgrades         |                                  |
|           |     | PN957 Central Concourse Tile Flooring    | PN794C TC & TC Garage Wayfinding   |                                  |                                  |
| LANDSIDE  | HOU |  |  |                                  |                                  |
|           | IAH |  | PN235 TC Garage & Bridge Repairs   |                                  | PN931 Flyover Bridge Replacement |
|           |     |  | PN793 Integrated Coordination Center (ICC)   |                                  | PN978 JFK Cell Phone Lot         |



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# HAS Capital Projects for Advertisement

*1<sup>ST</sup> QUARTER*



# PN957 HOU Central Concourse Floor Replacement

Roger Hebert, Sr. Project Manager  
Robert Plushnick AIA, Design Manager

## Project Objective:

- Install large format Quartz Stone Tile in the Central Concourse with design
- Phased and Night work
- Includes electrical floor outlets in connector link

## Project Delivery Method:

- Invitation to Bid

## Project Status:

- Currently advertised
- Bids due April 13



CENTRAL CONCOURSE

HOI

# PN 770A/C HOU Hot Spots Non-Standard Taxiways

Anmar Al Rikabi, *Project Manager*  
Dev Pokhrel, *Design Manager*



## Project Objective:

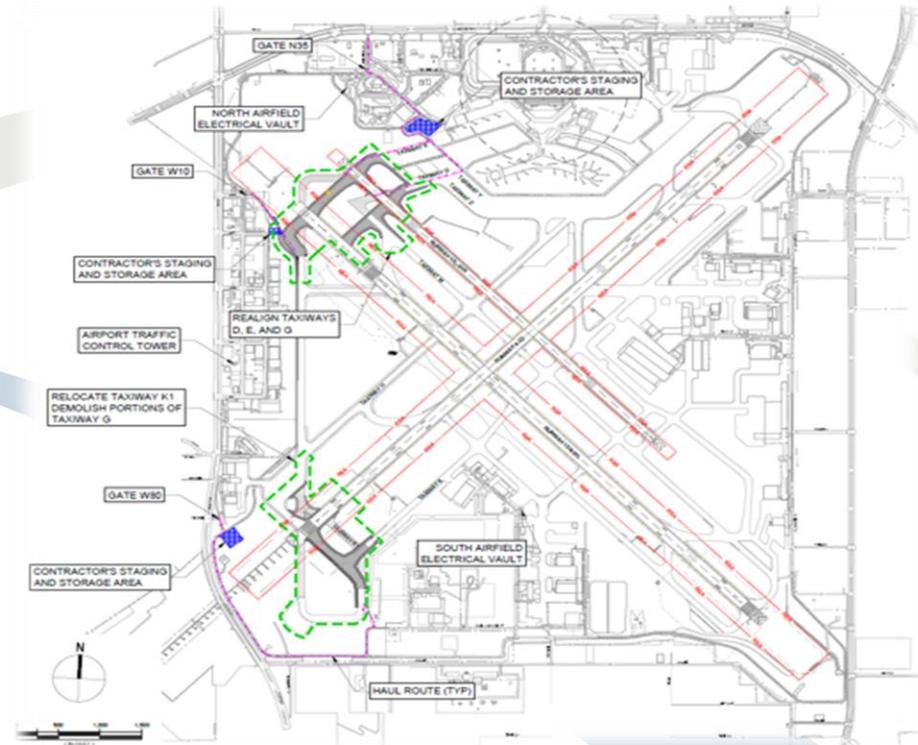
- Construction and realignment of Taxiways D, E, G (Partial), M (Partial), and K1 (Partial), and relocation of the existing Million Air fuel farm.
- Construction Timeline 537 days (Estimated)

## Delivery Method:

- Design-Bid-Build

## Status:

- Currently Advertising
- Pre-Bid Conference: March 10
- Bid Due: April 13



DOIT

**GRANT ELIGIBLE**

# PN257 Terminal A – Vestibule Efficiency Upgrades

Jeffrey Tennyson, *Project Manager*  
Waldo Maffei, *AIA, Design Manager*  
RDLR Architects, *Designer*



## Objectives:

- Replacement of automatic sliding doors and air curtains
- Expansion of Departure level vestibule
- Construction to be phased
- Est. Value: \$1MM - \$2MM

## Delivery Method:

- Invitation to Bid

## Status:

- Advertisement 1st Qtr. 2023



IAI

**GRANT ELIGIBLE**



HAS INDUSTRY DAY  
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# HAS Capital Projects for Advertisement

*2<sup>nd</sup> QUARTER*



# PN646A Rehabilitation of IAH TWY SA & SB

Zafar Ahmed, *Project Manager*

Dev Pokhrel, *Design Manager*

## Project Objectives:

- Rehabilitation and upgrade of Taxiways SA&SB to accommodate ADG V (TDG 6)
- **Mill and Overlay of Taxiways SA&SB**
- Shoulder and Fillet improvements
- Concrete Panel replacement and repairs
- Sinkholes repair
- Est. Value: Less than \$40MM

## Delivery Method:

- Design Bid Build (CSP)

## Project Status:

- Advertisement-2<sup>nd</sup> Qtr. 2023



**PROJECT LOCATION:** IAH South Complex (Runway 9-27)  
TWY SA&SB

**GRANT ELIGIBLE**

IAH

# PN235 IAH Terminal C Garage and Helix Connector Bridge Repairs

David Scott, Sr. Project Manager

Robert Plushnick AIA, Design Manager



## Project Objectives

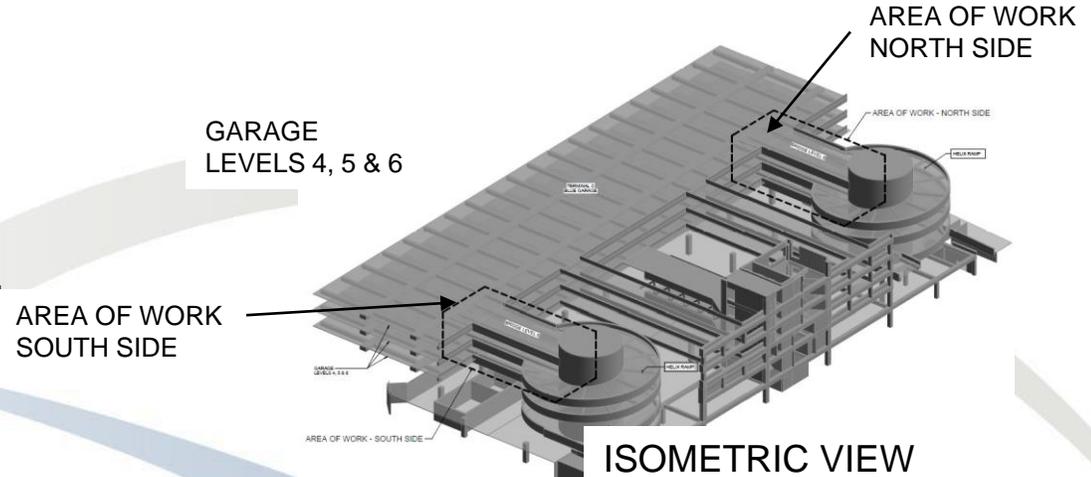
- The two Terminal C garage helix ramp connectors (levels 4, 5 & 6) require beams, expansion joints, cracks and spalling repair. The condition of this has been temporarily shored to stabilize the structural system until the repairs can be performed.
- Enclose all staircases at Terminal C Parking Garage West and Central.
- Add canopies to roof level elevators lobbies entrances of Parking Garage West and Central.
- Replace failed expansion joints at the West Helices and Rectangular bridges.
- Est. Value: Less than \$5MM

## Delivery Method

- Design Bid Build (ITB)
- Participation – MBE/SBE

## Project Status

- Advertisement-2<sup>nd</sup> Qtr. 2023



Canopy to cover the elevator lobby entrances



Walls to enclose the staircases on the 6<sup>th</sup> and 7<sup>th</sup> levels

IAH

# PN793 IAH ICC Buildout at GSF

Jeffrey Tennyson, *Project Manager*

Susan Keil AIA, *Design Manager*

PGA / RDLR, *Designer*



## Project Objective:

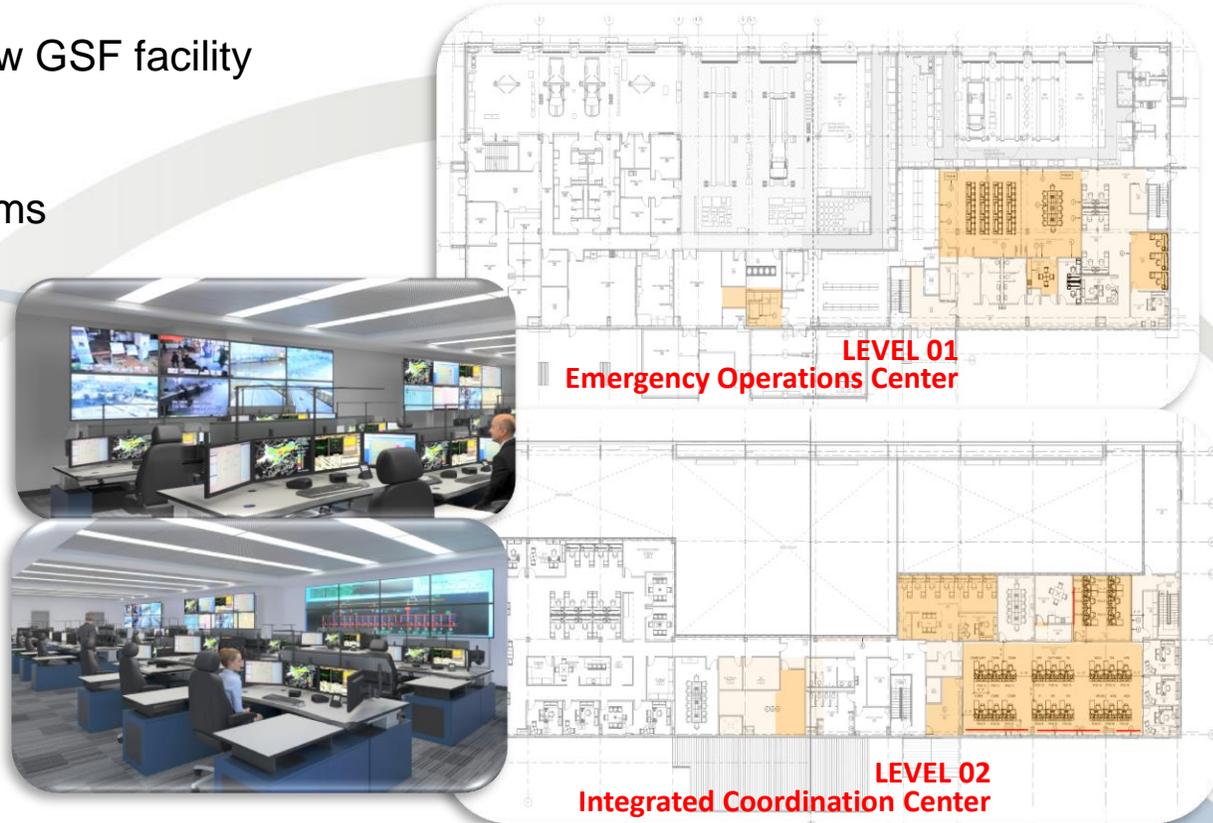
- Existing ICC & EOC will be relocated to the new GSF facility
- Project includes IT, AV and Security scope
- The ICC & EOC will be 24/7 facilities.
- Additional showers added to 2nd Floor restrooms
- Est Value: \$5MM - \$10MM

## Project Delivery Method:

- Invitation to Bid
- Minority Participation TBD

## Project Status:

- Advertisement-2<sup>nd</sup> Qtr. 2023





# PN794 Terminal C and Terminal C Garage Wayfinding

David Scott, Sr. Project Manager

Waldo Maffei AIA, Design Manager

## Project Objectives

- Update the signage in the C Terminal to conform to the current upgrades in the A Terminal and the ongoing upgrades in the D and E Terminals.
- To rebuild and to provide a comprehensive package of digital and stationary signs to more accurately guide as well as comfort travelers, as they navigate their way through the Houston Airport System.
- Est. Value: Less than \$3MM

## Delivery Method

- Design Bid Build (ITB or CSP)
- Participation – MBE/SBE

## Project Status:

- Advertisement-2<sup>nd</sup> Qtr. 2023



HA  
A  
I



# PN972 FIS/CBP Signage and Wayfinding

David Scott, Sr. Project Manager

Waldo Maffei AIA, Design Manager

## Project Objectives

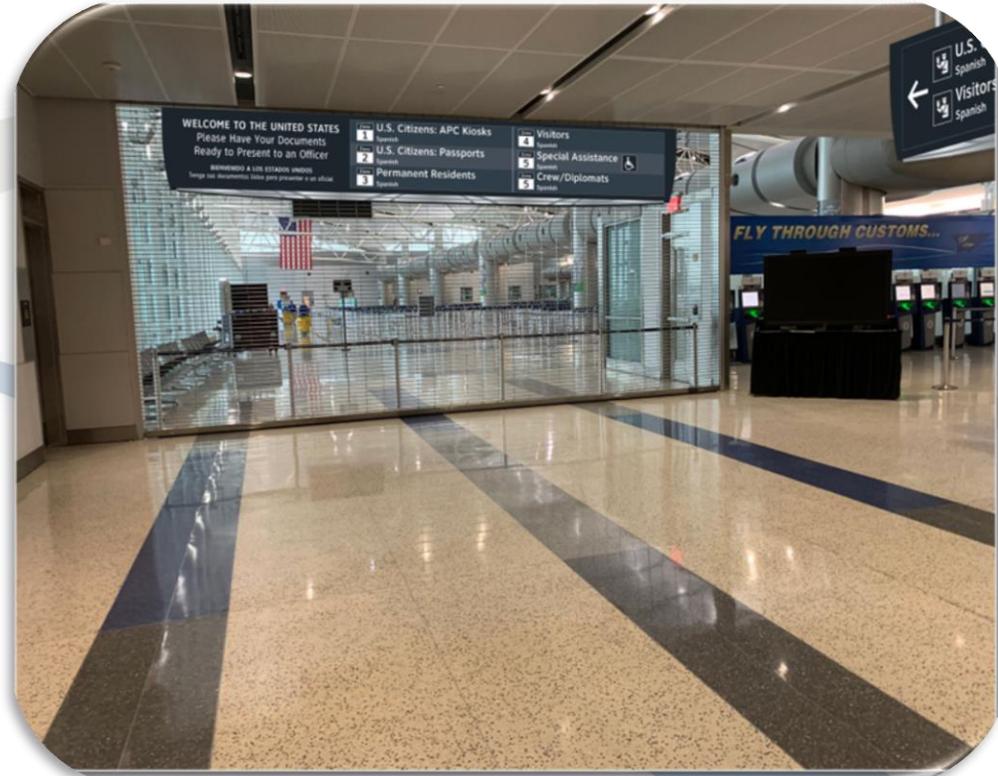
- Rebuild and provide a comprehensive package of digital and stationary signs
- Accurately guide as well as comfort foreign and returning travelers, as they enter the United States through the Houston Airport System.
- Est. Value: Less than \$1.6MM

## Delivery Method

- Design Bid Build (ITB)

## Project Status

- Advertisement-2<sup>nd</sup> Qtr. 2023



ITB

**\*GRANT ELIGIBLE**

# PN950 HOU Restroom Rehabilitation & Modernization

Christopher Bunn, Sr. Project Manager

Susan Keil, AIA, Design Manager



## Project Objectives

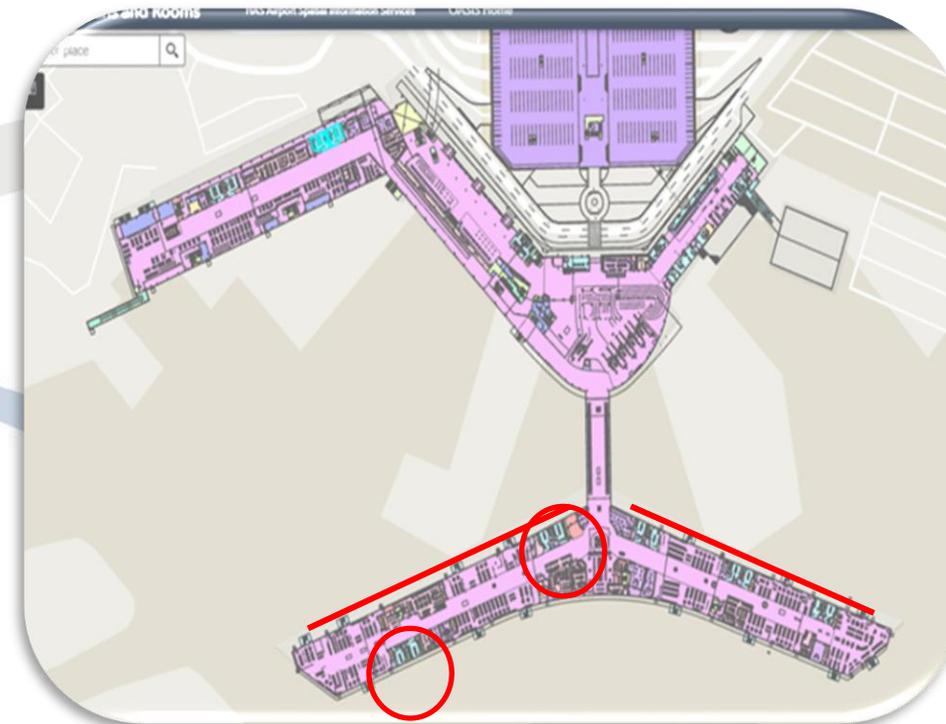
- Enabling project for restrooms; Replace sanitary sewer lines and correct slope;
- Replace existing corroded, clogged and cracked pipes;
- Replace existing plumbing pipes that are sized incorrectly;
- Install clean-out on existing pipes with short radius;
- Install traps where existing traps are not vented; and
- Est. Value \$5MM - \$10MM

## Project Delivery Method

- Invitation to Bid

## Project Status

- Advertisement-2<sup>nd</sup> Qtr. 2023



Project Location - Central Concourse

**GRANT ELIGIBLE**

HOU



# PN209B HOU Restrooms Renovation Phase III (Central Concourse)

Robert Lengefeld, *Project Manager*

Robert Plushnick, RA AIA, *Design Manager*



## Project Objective:

- Modernize the existing restrooms to improve customer experience
- Phased restrooms renovation at Rooms 3-4, 5-6, & 58-59
- Includes Men's, Women's Assisted Restrooms
- Est. Value: \$5M to \$6M

## Project Delivery Method

- Invitation to Bid

## Project Status

- Advertisement-2<sup>nd</sup> Qtr. 2023



DOIT

**GRANT ELIGIBLE**



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# HAS Capital Projects for Advertisement

*3<sup>rd</sup>* QUARTER



# PN 973 IAH Remain Overnight (RON) Parking | Terminal A North Infill

Christopher Bunn, Sr. Project Manager  
Dev Pokhrel, Design Manager

## Project Objectives

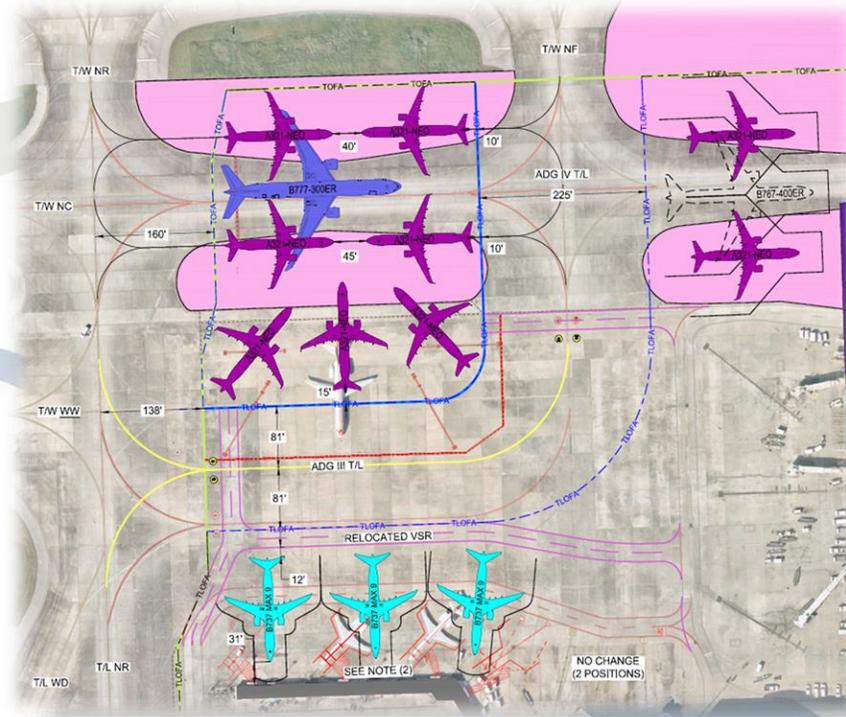
- Create a larger apron to be used for RON parking and de-icing operations with scope as noted:
  - Taxiway NC between Taxiway NR and Taxiway NF;
  - Provide gate support and accommodate ADG IV aircraft to facilitate ingress and egress to Gate A14;
  - Existing utility work required; and
  - Est. Value: \$5MM - \$10MM

## Project Delivery Method

- Design-Bid-Build

## Project Status

- Advertisement-3<sup>rd</sup> Qtr. 2023



**GRANT ELIGIBLE**



# PN963 IAH Terminal A – FIDS/BIDS with LED Accents

(Flight Information Display System, Baggage Information Display System)

Rodney A. Dove PMP, *Project Manager*

Waldo Maffei AIA, *Design Manager*



## Project Objectives:

- Replace existing monitors in TA North/South Connector with larger portrait configuration monitors
- Change the orientation on the existing monitors in TA Lobby to portrait
- Install Blue LED lightbar above monitors throughout Terminal A on both the Concourse Level and the Baggage Claim Levels
- Est. Value: Less than \$1MM

## Delivery Method:

- Design-Bid-Build
- Min. Participation TBD

## Status:

- Advertisement-3<sup>rd</sup> Qtr. 2023



IAH



# PN 954 EFD Drainage Structure Repairs

TBD, *Project Manager*

Dev Pokhrel & Omar Abdulkareem, *Design Managers*

## Project Objectives:

- Rehabilitation of Drainage Structures-Culvert
- Headwall and Associated Pipe Structures
- Est. Value: Less than \$2MM

## Delivery Method:

- Design Bid Build-Competitive Sealed Proposal (CSP)

## Status:

- Design Progressing – Pre-engineering
- Advertisement-3<sup>rd</sup> Qtr. 2023



Figure 1 – EFD Ditch C Outfall & North Culvert Location



Figure 4 – North Culvert Headwall Erosion



Figure 2 – Ditch C Existing Outfall

**GRANT ELIGIBLE**



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# HAS Capital Projects for Advertisement

*4<sup>th</sup> QUARTER*

# PN 646B: Rehabilitation of IAH TWY RA & RB

Zafar Ahmed, *Project Manager*

Dev Pokhrel, *Design Manager*



## Project Objectives:

- Rehabilitation and upgrade of Taxiways RA&RB to address the aging PCC pavement, alleviate the perched water beneath the pavement structure, and correct the geometric deficiencies.
- Removal and replacement of PCC pavement on Taxiways and connector taxiways
- Widening of PCC taxiway fillets
- Full and Partial Depth Concrete Panel Repair
- Est. Value: Up to \$28MM

## Delivery Method:

- Design Bid Build (CSP)

## Project Status:

- Advertisement-4<sup>th</sup> Qtr. 2023



**PROJECT LOCATION:** IAH South Complex  
(Runway 9-27) TWY RA&RB

IAH

**GRANT ELIGIBLE**



# PN931 IAH Will Clayton Pkwy to JFK Drive New Flyover Bridge

Roger Hebert, *Sr. Project Manager*

Omar Abdulkareem, *Design Manager*

## Project Objective:

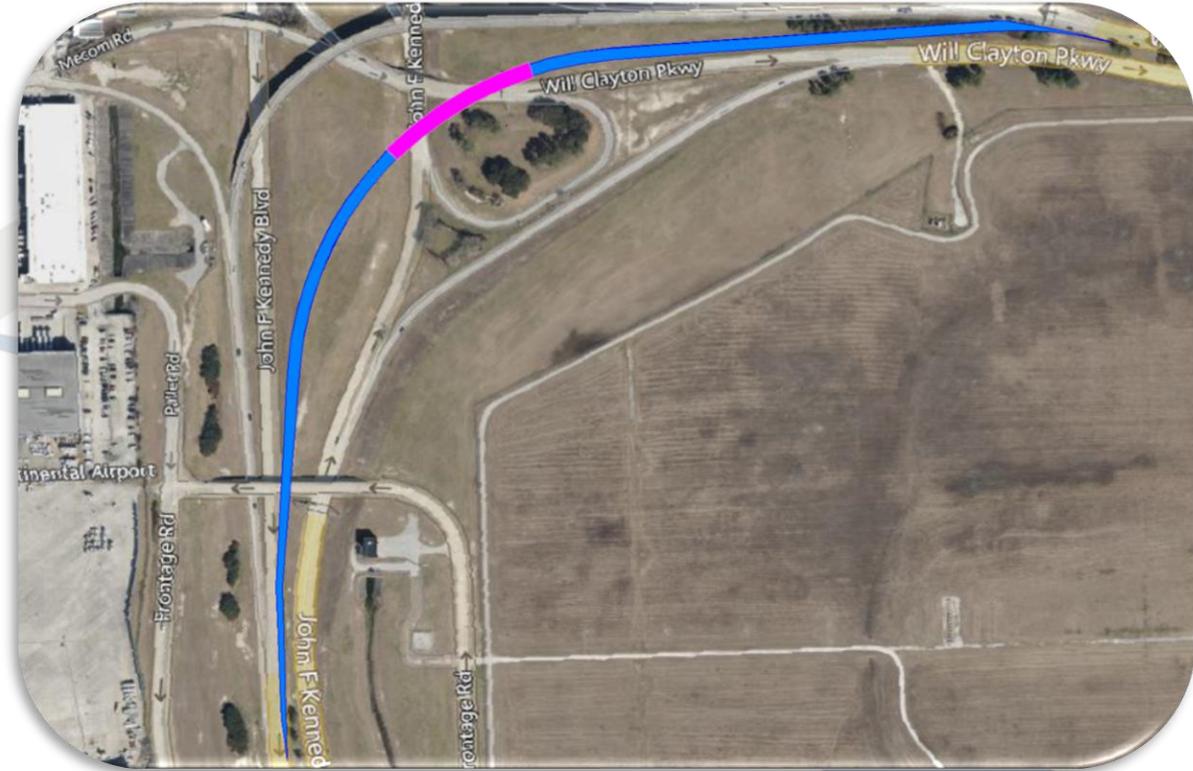
- Construction of a new Will Clayton Pkwy to JFK Flyover Bridge.
- Demolishing and disposing the existing flyover bridge.
- Landscaping and refurbishing of the demolished areas.
- The project also includes stormwater detention, signage, and lighting.
- Est. Value: \$5MM - \$10MM

## Project Delivery Method

- Invitation to Bid

## Project Status

- Advertisement-4<sup>th</sup> Qtr. 2023



IAH

**GRANT ELIGIBLE**



# PN978 IAH JFK Cell Phone Lot

David Scott, Sr. Project Manager

Waldo Maffei AIA, Design Manager



## Project Objectives:

- A convenient location for people who are picking up arriving airline passengers to park and wait for the passenger to be ready
- Reduced vehicle congestion in the terminal area because the drivers would have a place to wait without continually circulating
- Reduced curbside congestion as drivers do not need to wait at the curb for passengers to be ready
- Amenities in the Cell Phone Lot, including Flight Information Displays and free Wi-Fi
- Est. Value: Less than \$6MM

## Delivery Method:

- Design Bid Build (ITB)
- Participation – MBE/SBE

## Project Status:

- Advertisement-4<sup>th</sup> Qtr. 2023



IAH



# Capital Projects Eligibility & Recap

Nicole Robinson Owens, Assistant Director – Project Delivery

- **Approximately \$200MM in upcoming construction opportunities in CY - 2023**
- **FY24-28 CIP**
  - Pavement Condition Assessment
  - Grant Opportunities
- **All Projects Must be Delivered:**
  - Safely, securely, and in accordance with local, state and Federal (FAA) requirements defined by the Contract
  - On Time, Under Budget
  - With Quality (Inspections via CM Team)
  - Within Building Standard Guidelines & Tenant Improvement Process
  - Build and manage work by following approved and permitted plans, designs and specifications
  - Meet relevant minority participation goals set by OBO
  - Data Tracking via Controls

|                         |     | 2023 Q1  | 2023 Q2  | 2023 Q3  | 2023 Q4  | Location Totals |
|-------------------------|-----|----------|----------|----------|----------|-----------------|
| AIRFIELD                | HOU | 1        | -        | -        | 1        | 2               |
|                         | IAH | -        | 1        | 1        | 1        | 3               |
|                         | EFD | -        | -        | 1        | -        | 1               |
| Sub Totals              |     | 1        | 1        | 2        | 2        | 6               |
| TERMINALS               | HOU | -        | 2        | -        | -        | 2               |
|                         | IAH | 2        | 2        | 1        | -        | 5               |
|                         | EFD | -        | -        | -        | -        | -               |
| Sub Totals              |     | 2        | 4        | 1        | 0        | 7               |
| LANDSIDE                | HOU | -        | -        | -        | -        | -               |
|                         | IAH | 0        | 2        | 0        | 2        | 4               |
|                         | EFD | -        | -        | -        | -        | -               |
| Sub Totals              |     | -        | 2        | -        | 2        | 4               |
| <b>QUARTERLY TOTALS</b> |     | <b>3</b> | <b>7</b> | <b>3</b> | <b>4</b> | <b>17</b>       |



# INDUSTRY DAY 2023

## PROGRAM CONTROLS

**Judith Odera, MEng, PMP**  
***Assistant Director, Controls***

Time: Total Use=2540 Hr.

# Program Controls – Who We Are?



## Controls Team Overview

- Financial Controls
- Document Controls
- Project Controls
- Systems Management





# Program Controls - Systems

## Budget & Funding Management



PMIS



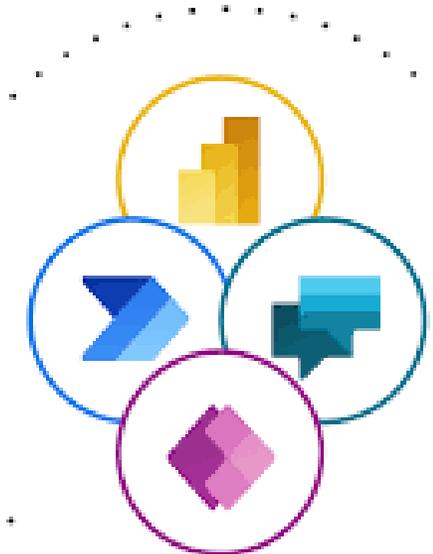
## Project Management



## Invoicing Management



## Full Scale Dashboard Reporting



POWER PLATFORM



# Program Controls - Management





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# **Procurement Overview**

*Cathy Vander Plaats, Aviation Procurement Officer*

# Procurement Team Introductions

Cathy Vander Plaats, *Aviation Procurement Officer*



## Division Manager - **Alfredo Oracion**

- Sr. Procurement Specialist – Ola Alhammami
- Sr. Procurement Specialist – Jorge Ardines
- Sr. Procurement Specialist – Gabriel Carey
- Sr. Procurement Specialist – Amanda Joseph
- Sr. Procurement Specialist – David Martinez
- Sr. Procurement Specialist – Andre' Morrow

# Procurement Overview

Cathy Vander Plaats, *Aviation Procurement Officer*



- **Procurement Methods**
  - **Invitation to Bid (ITB )/Design-Bid-Build (DBB)** - Lowest responsive and responsible bid.
  - **Competitive Sealed Proposal (CSP)** – Negotiations permitted with responsible/responsive offerors for construction projects.
  - **Request for Qualifications (RFQ)** – Pre-Qualification for professional services (part of a two-step process).
  - **Request for Proposal (RFP)** – Best value evaluation with price scored.
  - **Design Build (DB) – Two Step:** RFQ/RFP with both evaluated – RFP issued with design to be completed by selected firm.
- **ITB Process**
  - **Advertised for two (2) consecutive Fridays** – Houston newspaper.
  - **Quiet period begins** – All correspondence must be through Sr. Procurement Specialist.



# Procurement Overview *continued*

Cathy Vander Plaats, *Aviation Procurement Officer*

- **Pre-Bid Conference and site visit (if applicable)** – typically occurs a week after the 2nd advertisement
- **Questions period** – One (1) week following Pre-Bid Conference
- **Submittal/Proposal Due Date** – Typically two (2) weeks following last letter of clarification (LOC)/addendum
- **Review bids/proposals for responsiveness and MWBE/DBE plans (if applicable)**
- **Notice of Intent to Award (NOITA) sent to proposed awardee**
  - Proposed awardee has ten (10) business days to return required documents (i.e. certificate of insurance (COI), Bonds, etc.)
- **Review of documents received**
- **Contract sent to awardee via DocuSign for signature**
- **Submitted to Houston City Council Agenda for approval**
- **Notice to Proceed (NTP) or Administrative Notice to Proceed (ANTP) (if applicable)**
- **Begin work!**



# HHF, M/W/DBE GFE's, & COI's

Cathy Vander Plaats, *Aviation Procurement Officer*

- **Areas that require additional review**
  - **Hire Houston First (HHF)** – designation is required prior to bid/proposal submittal.
  - **MWBE/DBE Good Faith Efforts (GFE)** – clear documentation regarding efforts to engage minority participation (i.e. copies of emails, responses, lists of firms reached out to and responses, etc.).
  - **Certificate of Insurance (COI) – key points to remember when submitting COI**
    - Certificate Holder Box needs to show the correct certificate holder name, and address
    - Policy Number needs to match the endorsement documents as well.
    - **Make sure that COI is not 30 days close to expiration.**
    - **Make sure that the Owner's, and Contractor's Protective Liability (OCP), Installation Floater (unless alternative coverage by City Attorney), and Builder's Risk as shown on the Doc 00800 Supplementary Conditions.**



## Bonds - Procurement Overview

Cathy Vander Plaats, *Aviation Procurement Officer*

- **Bonds – key points to remember when submitting bonds**
  - **The project name and project number is listed on the body of the bonds.**
  - **That signatures, titles, complete dates, and seals (embossed) are on the bonds.**
  - **The date is complete under the “Attorney-in-Fact” and “Attest/Surety Witness” sections.**
  - **The power of attorney (POA), attached to each bond, is signed, dated, and includes the seal (embossed).**
  - **Bond number matches all bonds (top right corner).**



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# Office of Business Opportunity Presentation

*Kellie Irving, Deputy Assistant Director*



## Background

Kellie Irving, *Deputy Assistant Director*

The United States Department of Transportation requires that recipients receiving more than \$250,000 in federal funds must establish a Disadvantaged Business Enterprise Plan and set triennial goals on federal-assisted projects. The Houston Airport System receives Airport Improvement Program Funds from the Federal Aviation Administration in excess of this amount.



# Current DBE Goals FFY 2020 – 2022

Kellie Irving, *Deputy Assistant Director*

The current DBE Goals for George Bush Intercontinental (IAH) and William P. Hobby (HOU) Airports.

| Airport | DBE Goal | Race Neutral Goal |
|---------|----------|-------------------|
| IAH     | 32%      | 2.5%              |
| HOU     | 31%      | 2.5%              |

# Proposed DBE Goals FFY 2023 – 2025

Kellie Irving, *Deputy Assistant Director*



The proposed DBE Goals for George Bush Intercontinental (IAH) and William P. Hobby (HOU) Airports.

| Airport | DBE Goal | Race Neutral Goal |
|---------|----------|-------------------|
| IAH     | 36%      | 2.5%              |
| HOU     | 34%      | 2.5%              |

# Goal Setting Process

Kellie Irving, *Deputy Assistant Director*



- **DBE Proposed Goals Drafted**
- **Public Review & Comments Period - March 1-30, 2023**
  - Drafted goals are posted for public review at:
    - City Secretary's Office - 900 Bagby, Public Level, Houston, TX 77002
    - HAS-OBO Office – 18900 Lee Road, Humble, TX 77338
    - Office of Business Opportunity – 611 Walker, 7<sup>th</sup> Fl., Houston, TX 77002
- **2<sup>nd</sup> Stakeholders Meeting – March 1, 2, 3, 2023, at 1:30 p.m.**
- **Present to Mayor and City Council for Approval**



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## Questions & Answers





# INDUSTRY DAY 2023

## Adjourn



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