IAH Terminal Redevelopment Program and HAS Infrastructure Division

Industry Day

December 6th, 2016
Agenda

10:00 am  Introductory Comments
  - Mr. Jason McLemore, Deputy Assistant Director, HAS Office of Business Opportunity

10:10 am  Welcoming Remarks
  - Mr. Robert Barker, Deputy Director, HAS Infrastructure
  - Mr. Mario Diaz, Director of Aviation, HAS

10:20 am  IAH Terminal Redevelopment Program (ITRP) Scope and Upcoming Opportunities Overview
  - Mr. Steve Andersen, Executive Program Manager

10:35 am  HAS Infrastructure Overview
  - Mr. Robert Barker, Deputy Director, HAS Infrastructure
  - Mr. Jarrett Simmons, Assistant Director Aviation, HAS Asset Planning
  - Mr. Ivory (Bo) David, Assistant Director, HAS Building Standards Group

10:50 am  Office Of Business Opportunity Update
  - Mr. Jason McLemore, Deputy Assistant Director, HAS Office of Business Opportunity

10:55 am  Networking Opportunity and Refreshment Break

11:20 am  Question & Answer Opportunity
  - Mr. Robert Barker, Deputy Director, HAS Infrastructure

12:00 pm  Event Concludes
Introductory Remarks

Mr. Jason McLemore,
Deputy Assistant Director, HAS Office of Business Opportunity
Introductory Comments

- Industry Day – Housekeeping Matters
  - Registration
  - Facility Accommodations, Emergency Exits
  - Cell Phone Etiquette
  - Question & Answer Opportunity Will Follow Presentations
    - One Question Per Person
    - Introduce Yourself And Your Company
    - Follow-up Verbal Questions With Written Questions Via E-Mail
  - Please Network And Exchange Business Cards
Welcoming Remarks
Mr. Robert Barker, Deputy Director, Infrastructure
Welcoming Remarks

Mr. Mario Diaz, Director of Aviation
ITRP Scope And Upcoming Opportunities Overview

Mr. Steven Andersen, IAH Terminal Redevelopment Program (ITRP) Executive Program Manager
ITRP Organization Model

- Approves
- Leads
- Manages
- Executes

Houston Airport System

Executive Program Manager (EPM)

Program Management Support Services (PMSS)

Technical Services

Project Delivery

Designers

Contractors

Specialist Services
IAH Terminal Redevelopment Program (ITRP)
Mickey Leland International Terminal (MLIT) Vision

✓ **Convenient**, Simple, Functional And Intuitive For Entire Passenger Experience;

✓ **Flexible** Design For Future Innovation And Changes To Technology, Operations And Security;

✓ **Technology-Enabled** For Automated Processing And Customer Convenience;

✓ Creating A **Sense Of Place**, Reflective Of The Houston Community And Environment;

✓ **Contemporary** And Timeless Design With Use Of Natural Light For An Open Expansive Feel;

✓ **Modular** Features To Enable Off-Site Construction With On-Site Assembly To Expedite Construction, Reduce Material Waste, Control Quality, And Enable Easier Interior Updates;

✓ **Maintainable** Facilities And Systems That Consider Whole-Life Cycle Costing; and,

✓ **Sustainable** And **Energy Efficient**.
IAH Terminal Redevelopment Program (ITRP)

ITRP Scope Overview – Individual Projects

- United New Terminal C North
- MLIT, Taxiway, Apron & Landside Roadway Reconfiguration
- East Aircraft Hardstand
- PMO Building
- Terminal C West Parking Garage Expansion
- Landside Roadway Rehabilitation
- Federal Inspection Services
- Landside Enabling Utilities

IAH Terminal Redevelopment Program (ITRP)
IAH Terminal Redevelopment Program (ITRP)

ITRP - PROGRAM AT A GLANCE

2015
- New C North - Approved United Airlines Lease Agreements March 2015

2016
- MLIT: Design 60% Complete CNAF Approved
- Pier D1 Construction Starts

2017
- Project Management Office
  - Construction Starts
- EAPH: East Aircraft Parking Hardstands
  - Construction Starts
- PMO: DB Contractor Procurement Complete
  - Design Phase Starts
- MLIT
  - AIE Procurement Complete
  - CMAR Procurement Complete
  - Design Phase Starts

2018
- ENR: Enabling Utilities Landside
  - DB Contractor Procurement Complete
  - Design Phase Starts
- FIS: Federal Inspections Services
  - July - December
  - AIE Procurement Complete
  - CMAR Procurement Complete
  - Design Phase Starts

2019
- MLIT: MLIT D1 Opening
- MLIT
  - Pier D1 - Construction Complete
  - Pier D1 - Operational
  - Pier D2 - Construction Starts
- APTL: Apron & Taxi Lanes
  - Pier D1 - Construction Complete

2020
- MLIT: MLIT
  - Pier D1 - Passenger Boarding Bridges Installed
  - Pier D1 - Operational
  - Pier D1 - Design Complete

2021
- MLIT: MLIT
  - Pier D1 - Passenger Boarding Bridges Installed
  - Pier D1 - Design Complete
  - Pier D2 - Construction Starts

2022
- MLIT: MLIT
  - Pier D1 - Passenger Boarding Bridges Installed
  - Pier D1 - Design Complete
  - Pier D2 - Construction Starts
- APTL: Apron & Taxi Lanes
  - Pier D2 - Construction Complete

2023
- MLIT: MLIT
  - Pier D1 - Passenger Boarding Bridges Installed
  - Pier D1 - Design Complete
  - Pier D2 - Construction Starts
- APTL: Apron & Taxi Lanes
  - Pier D2 - Construction Complete
- FIS: Federal Inspections Services
  - Construction Complete
- EUL: Enabling Utilities Landside
  - DB Contractor Procurement Complete
  - Design Phase Starts
- MLIT: MLIT
  - Pier D1 - Passenger Boarding Bridges Installed
  - Pier D1 - Design Complete

2024
- MLIT: MLIT
  - Pier D1 - Passenger Boarding Bridges Installed
  - Pier D1 - Design Complete
  - MLIT Fully Operational
- MLIT Complete

IAH Terminal Redevelopment Program (ITRP)
Upcoming ITRP Business Opportunities

Previous & Current Procurements

- DB – PMO (Awarded)
- AE - MLIT (Awarded)
- CMAR - MLIT
- OCIP

- DB - East Aircraft Hardstands (EAH)
- AE - FIS
- CMAR - FIS
- On call Planning

Upcoming Procurements

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<tr>
<th>Draft</th>
<th>2016</th>
<th>2017</th>
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<tr>
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<td>Nov</td>
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<tr>
<td>Industry Days</td>
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<td>New Procurements (Proposed Draft Timelines)</td>
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<td>DB - Landside Enabling Utilities (LEU)</td>
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<td>On call Design</td>
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<td>DBOMF - IAH Energy Infra.</td>
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<td>AE - C West Garage</td>
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<td>CMAR - C West Garage</td>
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<tr>
<td>AE - Apron &amp; Taxi lanes</td>
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<tr>
<td>CMAR - Apron &amp; Taxi lanes</td>
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<td>Roadway Rehabilitation Project</td>
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IAH Redevelopment Program
Welcoming Remarks

Mr. Robert Barker, Deputy Director, Infrastructure
HAS Infrastructure Division: CY 2017/2018 Business Opportunities

Mr. Jarrett Simmons,
Assistant Director Aviation – Asset Planning
Bush Intercontinental Airport - CY 2017/2018 Projects

- PN4663 Terminal B Garage repair
- PN737 Terminal B Core 480 Volt Distribution System
- PN503 Nursing Mothers Rooms
- PN673 Terminal A Modernization program
- PN724 Parking Garage Improvements Terminal A and B
- PN741 Terminal A North & South Restrooms Remodel
- PN751 APM Guideway Structural Enhancements
- PN546 Upgrade and Locate APM Facilities
- PN723 Parking Garage Rehab C/D/E
- PN746 Tracon Demolition
- PN749 Terminal A & B Expansion joints & U Ramp repair
- PN762 Temporary Internal Signage Terminal A

Geographic Area: George Bush Intercontinental Capital Improvement Project 2017 & 2018

IAH Terminal Redevelopment Program (ITRP)
Bush Intercontinental Airport - CY 2017/2018 Projects

PN675 Rehab Taxiway NA
PN901 Reconstruct Taxiway WA & WB
PN794 Wayfinding for garage facilities
PN668 Rehab ARFF Station 92
PN523 Automated Vehicle Identification AVI and Taxi system
PN570B New Taxi Staging Area
PN460C Airfield panel Rehab
PN646 A Reconstruct Taxiways RA, SA & SB
PN736 Multi Airport Resource Ctr
PN686 IAH Storm Water Pollution Control System
Hobby Airport - CY 2017/2018 Projects
Ellington Airport - CY 2017/2018 Projects

- PN733 T Hanger Ramp and TXWY D Pavement Rehab
- PN732 Airfield Service Rd Rehab
- PN707 Parallel Taxiway to Runway 4-22
- PN779 Aerospace Design & Solution Lab

IAH Terminal Redevelopment Program (ITRP)
## Infrastructure - CY 2017/2018 Projects over $1 Million

<table>
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<th>Location</th>
<th>Phase</th>
<th>Description</th>
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<td>TERMINALS A AND B - EXPANSION JOINTS AND U-RAMP REPAIRS</td>
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<td>460C</td>
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<td>AIRFIELD PAVEMENT REHAB</td>
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<td>DB</td>
<td>UPGRADE &amp; RELOCATE APM FACILITIES</td>
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<td>NEW GT STAGING AREA</td>
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<td>RECONSTRUCT TAXIWAYS RA, SA &amp; SB</td>
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<td>REHABILITATE &amp; EXPAND ARFF STATION 92</td>
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<td>DEPARTURE LEVEL CANOPY AT HOBBY AIRPORT</td>
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<td>PARALLEL TAXIWAY TO RUNWAY 4-22</td>
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<td>TERMINAL A NORTH &amp; SOUTH RESTROOM REMODEL</td>
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<td>DEMOLITION OF TRACON @ IAH (REIMBUSED BY FAA)</td>
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<td>APM GUIDEWAY REHAB PLACE HOLDER-B THRU D/E LINK</td>
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<td>WAYFINDING GARAGE FACILITIES AT IAH/HOU</td>
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<td>CMAR FOR T/W WA WB RECONST</td>
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Terminal Improvement Process (TIP)

Mr. Ivory (Bo) Davis,
Interim Assistant Director, Building Standards Group
The Building Standards Group, or BSG, is an “in-house” code review and inspection program.

Created specifically to provide code plan review and inspection support for construction taking place on any of the Houston Airport System (HAS) premises.

Agreement with the City of Houston Public Works Department

- HAS was given the authority to create and staff this new group in order to help expedite the code review, permit issuance and inspection for all construction on airport premises.

- HAS BSG has its own unique permit submittal process, that is completely separate from that used by the City of Houston Permitting Center.

- Application must be made directly to the BSG for any construction taking place at George Bush Intercontinental, Hobby or Ellington airports.

- Once a permit application has been reviewed and approved, BSG will issue a construction permit for that project.
HAS Permitting

- A permit is required for all new construction, as well as remodel, repair, additions or other alterations to existing structures.
  - This includes work associated with utilities, infrastructure, flatwork, or signage projects.
- An HAS BSG Application for Construction Permit, along with electronic (pdf) copies of the plans and all associated documents must be submitted to the BSG Permit Coordinator at BSG-Permitsubmittal@houstontx.gov.
- Any alterations to a building that effect or modify the exiting or egress from the facility, such as access control or relocation of doors, as well as any changes to the fire alarm or fire suppression system must be permitted.
- A Certificate of Occupancy (CO) is required prior to occupying any space within a building. The City of Houston Public Works & Engineering (PWE) Code Compliance section will continue to issue all Certificates of Occupancy.
HAS Inspections

- Inspection requests for permits obtained through HAS BSG shall be submitted to the BSG Permit Coordinator at BSG-Inspections@houstontx.gov.

- Any permit that was obtained through PWE Code Compliance must continue to request inspections through that office.
  - HAS BSG will be inspecting only those permits that were issued through the BSG office.
  - The only exception to that is the Terminal C North project currently under construction, which will be inspected by BSG inspection staff.

- BSG has its own process for requesting inspections, which again is completely separate from the City of Houston PWE Code Compliance procedure.
HAS TIP Application Process

- TIP Forms
  - [http://www.houstonairports.biz/TIP](http://www.houstonairports.biz/TIP) OR
    - Doing Business
    - TIP Application

- HAS Standards and Submittal Procedures
  - Select based on Project Scope of Work
  - Review all Standards before submitting

- HAS TIP Review
  - Approximately 7-20 days (based on complexity of scope)
  - Comments require 2-3 day turnaround
  - Notification provided via email
Office of Business Opportunity Update

Mr. Jason McLemore,
Deputy Assistant Director, HAS Office of Business Opportunity

For Email Inquiries, Please Contact:
Jason.mclemore@houstontx.gov
Office of Business Opportunity Overview

- Provide Contracting Opportunity Information To M/W/S/P/DBEs
- Serve As An Advocate For M/W/S/P/DBEs And Support Policies And Activities To Maximize Their Participation In Airport Contracts
- Assist Prime Contractors With Identifying Certified M/W/S/P/DBEs To Participate On Contracts As Sub-Contractors And Concessionaires
- Educate M/W/S/P/DBEs On How To Access HAS Contracting Opportunities
Office of Business Opportunity Overview

- Monitor M/W/S/P/DBEs Utilization On Contracts With Participation Goals
- Ensure That Wage Standards Are Met On All Construction Projects With Federal And City Funding
- Host Small Business And Minority Forums For Networking
- Provide Information And Referral Services To M/W/S/P/DBEs
Networking Opportunity and Refreshment Break
Question & Answer Opportunity
Mr. Robert Barker, Deputy Director, Infrastructure