Infrastructure Industry Day
February 28, 2020
Infrastructure Industry Day Agenda

• Opening & Welcoming Remarks
• Upcoming Business Opportunities:
  1. Infrastructure Extension of Staff Services
  2. Domestic Redevelopment Program
  3. Exit Lane Technology
  4. Restroom Renovations
• Networking Break
• Upcoming Business Opportunities (continued):
  1. HAS Interior-Scaping
  2. IAH Flyover Bridge
  3. Relocation of TSA/HPD Bunkers & K9
  4. HOU ARFF 81 Replacement
  5. FAR 139 Airfield Pavements

  ▪ Question And Answer Opportunity
  ▪ Industry Day Concludes
Infrastructure Extension of Staff Services

Devon Tiner
HAS City Engineer
Infrastructure Extension of Staff Services
Devon Tiner, HAS City Engineer

- Purpose
  - Extension Of Staff Services Support

- Request For Qualifications (RFQ)
  - Infrastructure Division Extension of Staff (M/WBE Goal: 35%)
  - Building Standards Group (BSG) Extension of Staff (M/WBE Goal: 7%)

- Typical Extension Of Staff Roles (For Example Purposes Only)
  1. Infrastructure: Project/Construction Management, Scheduling, Cost Estimating, Planning
     Environmental Field Support, Administrative
  2. BSG: Building Official, Permit Coordinator, Plans Examiners, TIP Coordinator
Anticipated Contract Terms:
- Five Years, With One 3 Year Renewal Option

Planned Solicitation Date:
- March 2020

Targeted Award Date:
- July 2020
Industry Day

Domestic Redevelopment Program

Robert Barker
Chief Development Officer
Domestic Redevelopment Program
Overview

- Terminal A Projects
  - Baggage Handling System Optimization
    - Design Complete
    - Construction Contract Awarded
  - Early And Enabling Works
  - Modernization
  - Expansion
Early And Enabling Works
Scope Description

- **Improvements To Exterior Terminal Functions**
  - Curbside Capacity Improvements
  - South Terminal Roadway Improvements
  - Installation Of New Triturator
  - Remain Overnight (RON) Parking
    - Replaces Displaced Parking
    - 4 Positions
- **Project Status**
  - Small On-Call Design (In Progress)
  - Anticipate Soliciting Design-Build Services Q3 2020
Terminal A Modernization Project
Scope Description

- **Scope Elements**
  - Core Building Systems Service Extension
  - Inbound Baggage Handling Service Extension
  - Gate Support Equipment Replacement
  - Additional, And Renovation Of Existing, Restrooms
  - Refreshed Finishes, Furniture, Fixtures & Equipment

- **Project Status**
  - 30% Design Complete
  - Anticipate Soliciting Architect Engineer Services March 2020
  - Anticipate Soliciting Construction Manager At Risk (CMAR) Services March 2020
Terminal A Expansion Project
Scope Description

- **Purpose**
  - Increase Gate Capacity To Meet Domestic Airline Requirements

- **Project Status**
  - Design In Progress
    - Large On-Call Design Services
  - Anticipate Soliciting Construction Manager At Risk (CMAR) Services March 2020
    - Single CMAR Solicitation For Modernization And Expansion Projects
Terminal A Expansion Project
Alternatives Considered

- New Northwest Pier – 8 Gates: Estimated Cost $300 Million
- New West Pier – 4 Gates: Estimated Cost $95 Million
- South Concourse – 4 Gates: Estimated Cost $86 Million
- North Concourse – 4 Gates: Estimated Cost $110 Million

Estimated Cost $110 Million
Estimated Cost $86 Million
Estimated Cost $95 Million
Estimated Cost $300 Million
Terminal A Expansion Project
Concept Overview

South Concourse Expansion
- Total Number of Gates: 8
- Incremental New gates: 4
- Hold Rooms: 33,500 sf
- Average Space/Gate: 4200 sf
- Concessions Space: 8300 sf
- Restroom & Core: 4800 sf
- Circulation: 13,900 sf
- Vertical Circulation: 700 sf
- Total Expansion Area: 61,200 sf
Domestic Redevelopment Program
Milestones - 1

- Program Scoping And Review
  - Domestic Airline Reviews/Briefs: 2019 - Ongoing
  - Economic Development Committee: 2019 - Ongoing
  - Airport Airline Affairs Committee: 2020 - Ongoing
  - Industry Day Outreach Event: February 28, 2020
Domestic Redevelopment Program
Milestones - 2

- **Design And Construction Support**
  - On-Call Design Services: On Going
    - Expansion Project To 100% Design
    - Early And Enabling Works To 30% Design
  - Solicit Modernization Project Design Services: Planned March 2020
  - Solicit Early And Enabling Works Design-Build: Planned September 2020
  - Solicit CMAR Services: March 2020
    - Single Contract Solicitation For Modernization And Expansion Projects
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Exit Lane Technology Project
Justina Mann, Director, Infrastructure Controls
Exit Lane Technology Project, PN 735A & PN 735B
Justina Mann, Director, Infrastructure Controls

- Enhance Intrusion Detection Capabilities And Overall Security Of TSA Passenger Screening Checkpoint Exit Lanes Located At IAH Terminals A And C, And At HOU

- These Units Will Provide Detection, Alarm Reporting, And Documentation To Resolve Unauthorized Entry Into The Sterile Areas
Exit Lane Technology Project
Justina Mann, Director, Infrastructure Controls

Existing Exit Lane At IAH Terminal B
Exit Lane Technology Project
Justina Mann, Director, Infrastructure Controls

HOU Terminal Checkpoint
Exit Lane Technology Project
Justina Mann, Director, Infrastructure Controls

Project Objectives: Install Exit Lane Technology System That Will Provide Containment, Monitoring, Alarming (audible & visual), Good Passenger Flow

Milestones:

- Design Complete (100%)
- Construction Procurement March 2020
- Construction Award Planned October 2020
- Project Completion June 2021
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HOU Restroom Renovations

Justina Mann, Director, Infrastructure Controls
HOU Restroom Renovations Project
Justina Mann, Director, Infrastructure Controls

Project Objectives:
- Renovate Two (Sets) Of The Existing Restrooms With New Technologies And Modern Sustainable Materials For A Better Passenger Experience And For Ease Of Cleaning And Maintenance

Milestones:
- Design Complete (100%)
- Procurement Second Quarter 2020
- Construction Fourth Quarter 2020
- Completion Fourth Quarter 2021
Women’s Restroom Elevations
Men’s Restroom Elevations
HOU Restroom Renovations Project
Justina Mann, Director, Infrastructure Controls

Concourse Elevations
Network Break
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HAS Interior - Scaping

Scott Hill, Director, Maintenance
HAS Interior-Scaping
Scott Hill, Director, Maintenance

- Invitation-To-Bid (ITB)
  - 3 Year Term
  - Advertise June/July 2020
- Scope Of Work
  - Locations
    - IAH (Terminals A & D)
    - HOU (Terminal Main & International)
    - HAS Administrative Buildings (Public Spaces)
  - Interior Foliage - Turnkey:
    - Operations And Maintenance (O&M)
      - Including, But Not Limited To, Dusting, Cleaning, Polishing, Removal, Rotation, Replacement And Watering
    - New Installations Via Other Service Requests
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Will Clayton Pkwy/JFK Blvd
Flyover Bridge Safety Improvements

Justina Mann, Director, Infrastructure Controls
WCP/JFK Flyover Bridge Safety Improvements
Justina Mann, Director, Infrastructure Controls

- Project Objectives and Improvements:
  - Railing Upgrades
  - Signage Improvements
  - Installation of End Treatments
  - Removal of Sidewalk Pavement
  - Reconstruction of Roadway Surface
  - Additional Traffic Control Devices
WCP/JFK Flyover Bridge Safety Improvements
Justina Mann, Director, Infrastructure Controls

Milestones:
- Design:
  - Second Quarter 2020
- Procurement:
  - Fourth Quarter 2020
- Construction:
  - Second Quarter 2021
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HOU Relocate TSA/HPD Bunkers & K-9

Justina Mann, Director, Infrastructure Controls
HOU Relocate TSA/HPD Bunkers & K-9
Justina Mann, Director, Infrastructure Controls

- Objective:
  - Provide New Secure HPD/TSA Office & K-9 Training Facility
  - Provide New ATF Storage Magazine Facilities
  - Provide New Utilizing Ramp And Container Dump Site
Milestones:
- Design:
  - Complete (30%)
- Procurement (Design Build):
  - Second Quarter 2020
- Construction:
  - Fourth Quarter 2020
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HOU ARFF 81 Replacement

Justina Mann, Director, Infrastructure Controls
Objective:

- Phased Demolition And Complete Replacement Of ARFF 81
- Station Must Remain Operational During The Construction
HOU ARFF 81 Replacement
Justina Mann, Director, Infrastructure Controls

Milestones:
- **Complete Design:**
  - Design Completion Through On-Call Design Services
  - Second Quarter 2020
- **Procurement:**
  - Issued To Bid (ITB) Construction Contract
  - Third Quarter 2020
- **Construction:**
  - First Quarter 2021
FAR 139 Airfield Pavements
Cynthia Straughan, PE, PMP, CM
Assistant Director FAR 139 Airfield Pavements
Taxilanes RA & RB
Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Competitive Sealed Proposal:
  - Advertise November 2020
  - Design In Progress (35%)
  - Phase I RA Reconstruction (JFK to SF) & RB Panel Replacement
  - Reviewing “Aggressive” Phasing Plan
  - SA & SB Non-Standard Alignment – Planning Underway
scope considerations:
- perform work in broad lengths
- resources to work in parallel
- high risk safety area
- functioning terminal(s)
Construction (Package 1):
  - Demolition of Runway 17/35
  - Invitation to Bid

Scope:
  - Pavement Removal and Disposal
  - Fill
  - Revised Signage, Lighting, and Markings.
  - Alternate Bid Item
HOU Non-Standard Taxiways
Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Phasing/Timeline:
  - SRA Completed, 7460s Submitted
  - Environmental Assessment: In Final FAA Review
  - Advertise ITB ~May 2020
  - Construction NTP ~November 2020
  - HAS: Signage/Marking Removals, Electrical, Other
HOU Non-Standard Taxiways
Cynthia Straughan, Assistant Director, FAR 139 Pavements

- **Construction (Package 2):**
  - Reconstruction/Re-Alignment of Taxiways D, E, M1, H2 And Associated Pavements
  - Advertise D/B Procurement January 2021
  - NTP August 2022 (Following 9 Months From Start of Demolition)

- **Risk Management:**
  - Fuel Tank Relocations, NAVAIDS Relocation, ALP Modifications
  - North Loop Addition, FAA Reimbursable Agreement
HOU Non-Standard Taxiways
Cynthia Straughan, Assistant Director, FAR 139 Pavements
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Txwy H

Rnwy 4-22

H to 4-22
HOU Non-Standard Taxiways
Cynthia Straughan, Assistant Director, FAR 139 Pavements

- Proposed Phased Demolition
- Intersections With FBOs
- Functioning Airport
- Aged Pavement To Demolish
- Accessways/Haul Routes
EFD Taxiway L
Cynthia Straughan, Assistant Director, FAR 139 Pavements

- **Design**
  - 8000 LF + Associated Accessways
  - Green Field Site
  - Alternate: Underground Storm Detention
  - Planning Underway
  - Advertise ~December 2020
  - NTP ~July 2021
Infrastructure Industry Day
Question And Answer Opportunity
Thank You For Attending

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