



Rev 5. 01.14.21 BB



Industry Day

HAS Infrastructure Division

January 14, 2021



Infrastructure Industry Day Agenda

- Opening & Welcoming Remarks
- Upcoming Business Opportunities:
 - On-Call Planning Services
 - HOU Non-Standard Taxiways (PN 770)
 - Flyover Bridge Repair At Will Clayton Parkway (PN 931)
 - Terminal B Garage Repairs (PN 466B)
 - HOU Bus Lane Reconstruction (PN 236)
 - IAH Taxi And TNC Lot Entrance Relocation (PN 237)
 - Exit Lane Technology (PN 735)
 - Passenger Boarding Bridges
 - HOU Restroom Renovations, Phase II
 - HOU ARFF Station 81
 - IAH ARFF Station 92
 - IAH Terminal A Arrivals Door Replacement
 - IAH Skyway Stations Floor Replacement
 - IAH Terminal Management Offices
- Questions And Answer Opportunity (Via Chat)



Industry Day – January 14, 2021

On-Call Planning Services

Devon Tiner, Assistant Director – Asset Planning (Interim)

On-Call Planning Services

Devon Tiner, Assistant Director – Asset Planning (Interim)

01.12.21 DT rev



Scope Of Services:

- Provide On-call Aviation Planning Services
 - Technical Support In Preparation Of Annual CIP
 - Technical Support In Development Of AIP Grant Program
 - Technical Support In Implementing Master Plans
- Potential Assignments Include:
 - Aviation Activity Forecasting
 - Runway And Taxiway Layouts
 - Studies For Terminal Expansion
 - Modeling Airfield And Airspace Movements
 - Modeling Vehicle And Roadway Activities
 - Researching Trends In The Aviation Industry



On-Call Planning Services

Devon Tiner, Assistant Director – Asset Planning (Interim)

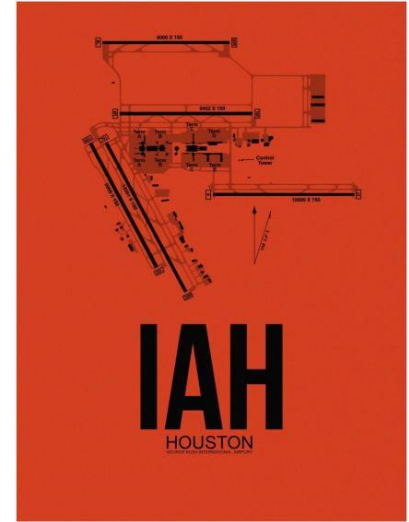
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- Potential Assignments Include (*Cont.*):
 - Infrastructure Condition Assessments:
 - Airside And Landside Facilities
 - Airfield Pavements And Landside Roadways
 - Other Planning Related Services As Needed
- Contract Value Is \$15 To \$20 Million
- Contract Duration Is Three Years
 - Two Extension Options For One Year Each
- Milestones:
 - Advertise RFQ
 - Contract Award

First Quarter 2021

Third Quarter 2021





FAR 139 Airfield Pavements

Devon Tiner, PE, PMP
Interim Assistant Director FAR 139 Airfield Pavements

HOU Non-Standard Taxiways

Devon Tiner, Interim Assistant Director, FAR 139 Pavements

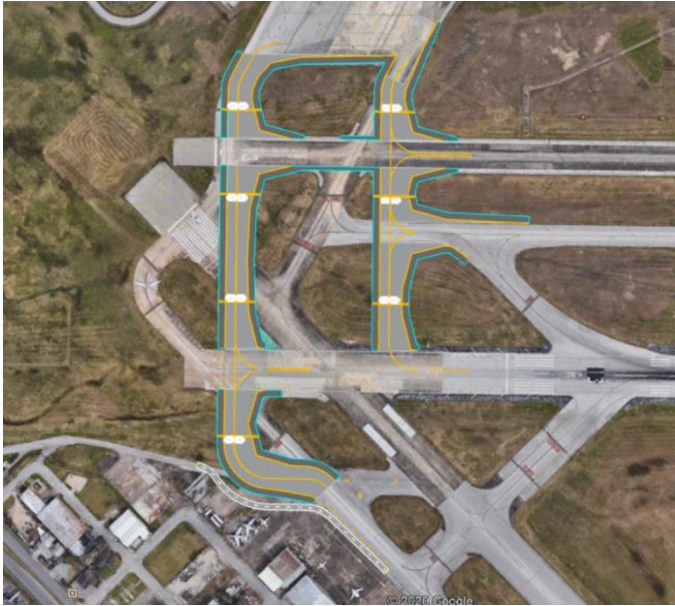


- Construction PN 770A:
 - Demolition/Re-alignment of Taxiways D, E, G, and M
 - Construction/Re-Alignment of Taxiways D, E, and K-1
- PN770B will remove RW 17-35 and is currently awaiting construction award.



HOU Non-Standard Taxiways

Devon Tiner, Interim Assistant Director, FAR 139 Pavements



North End – Taxiway E, D, G and M



South End – Taxiway K-1

HOU Non-Standard Taxiways

Devon Tiner, Interim Assistant Director, FAR 139 Pavements



- Project Details:
 - AIP Grant Funded
 - Meet C-III Design Standards (Boeing 737)
 - Concrete Taxiways with Asphalt Shoulders
- Schedule
 - Design Completion October 2021
 - Project Solicitation December 2021
 - Construction NTP June 2022



Will Clayton Pkwy/JFK Blvd Flyover Bridge Safety Improvements

Justina Mann, Assistant Director, Infrastructure Controls

WCP/JFK Flyover Bridge Safety Improvements

Justina Mann, Assistant 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, Assistant Director, Infrastructure Controls



Milestones:

- Design Complete
- Construction Procurement Third Quarter FY21
- Construction Award First Quarter FY22
- Project Completion Third Quarter FY22



PN-466B Terminal B Garage Repairs

Justina Mann, Assistant Director, Infrastructure Controls

IAH PN-466B Garage B Repairs

Justina Mann, Assistant Director, Infrastructure Controls



■ Project Objectives And Improvements:

- New Stairs Enclosures
- Structural Repairs
- Waterproofing Traffic Coat
- Expansion Joints Replacement
- Pavement Markings
- Guard Rails
- Fire Extinguishers And Cabinets
- Exterior Finishes



IAH PN-466B Garage B Repairs

Justina Mann, Assistant Director, Infrastructure Controls



Milestones:

- Design:
 - Completed Second Quarter FY21
- Procurement:
 - Fourth Quarter FY21
- Construction:
 - Second Quarter FY22

Budget:

- Construction: \$6.2 Million





HOU Metro Bus Drive Lane Reconstruction

Justina Mann, Assistant Director, Infrastructure Controls

HOU Metro Bus Drive Lane Reconstruction, PN 236

Justina Mann, Assistant Director, Infrastructure Controls

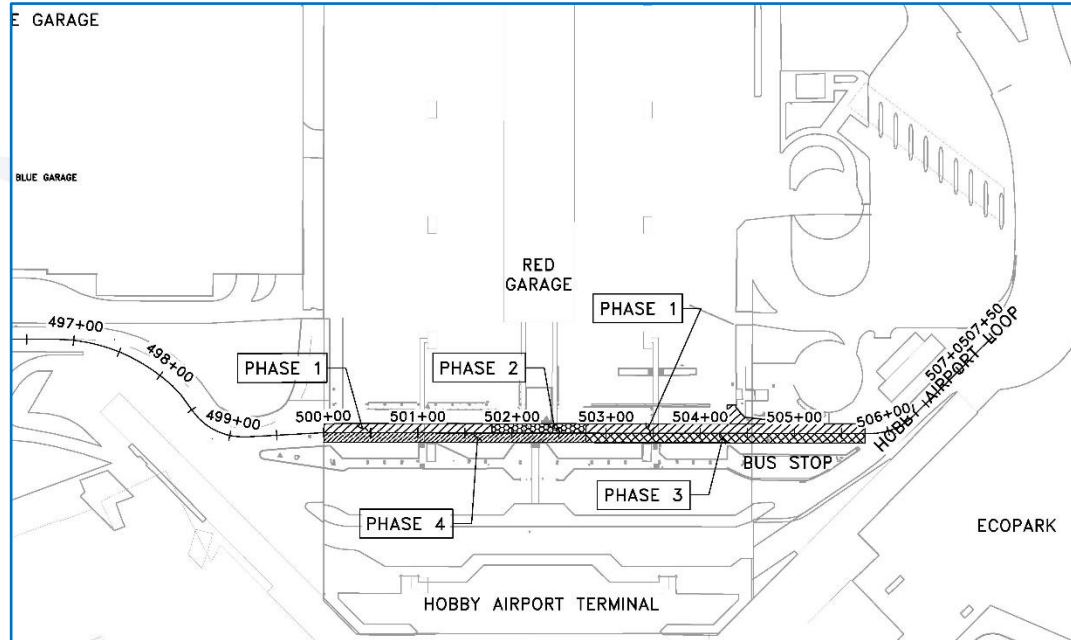


- Project Objectives:
 - Rehabilitation Of Concrete Pavement In Metro Bus Lane While Keeping One Lane Of Traffic Open During Construction
 - Replacement Of In-Pavement Lights And Associated Conductors
 - Crosswalk Striping, Signage And ADA Ramp Repair
- Milestones:

■ Design / Permit Submittal	Complete
■ Construction Procurement	First Quarter 2021
■ Construction Award Planned	Second Quarter 2021
■ Project Completion	Fourth Quarter 2021

HOU Metro Bus Drive Lane Reconstruction, PN 236

Justina Mann, Assistant Director, Infrastructure Controls





IAH Taxi-TNC Lot Entrance Relocation

Justina Mann, Assistant Director, Infrastructure Controls



IAH Taxi-TNC Lot Entrance Relocation, PN 237

Justina Mann, Assistant Director, Infrastructure Controls

■ Project Objectives:

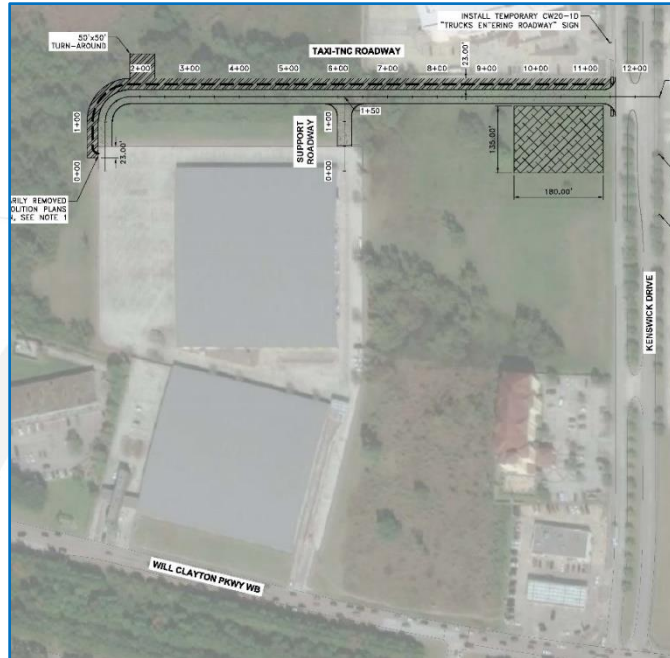
- Construct New Entrance And Exit Lanes For The Taxi-TNC Parking Lot At IAH
- Construct Continuous Reinforced Concrete Travel Lane From Kenswick Dr. To North End Of The Taxi-TNC Parking Lot
- Install Signage, High Mast Lighting And Drainage Features

■ Milestones:

- | | |
|--------------------------------------|--------------------|
| ■ Design Complete / Permit Submittal | Third Quarter 2020 |
| ■ Construction Procurement | First Quarter 2021 |
| ■ Construction Award Planned | Third Quarter 2021 |
| ■ Project Completion | First Quarter 2022 |

IAH Taxi-TNC Lot Entrance Relocation, PN 237

Justina Mann, Assistant Director, Infrastructure Controls





Exit Lane Technology Project

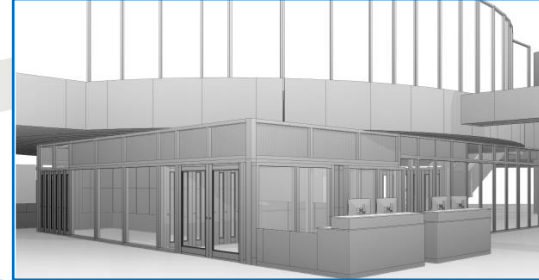
Justina Mann, Assistant Director, Infrastructure Controls

Exit Lane Technology Project, PN 735A & PN 735B

Justina Mann, Assistant 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

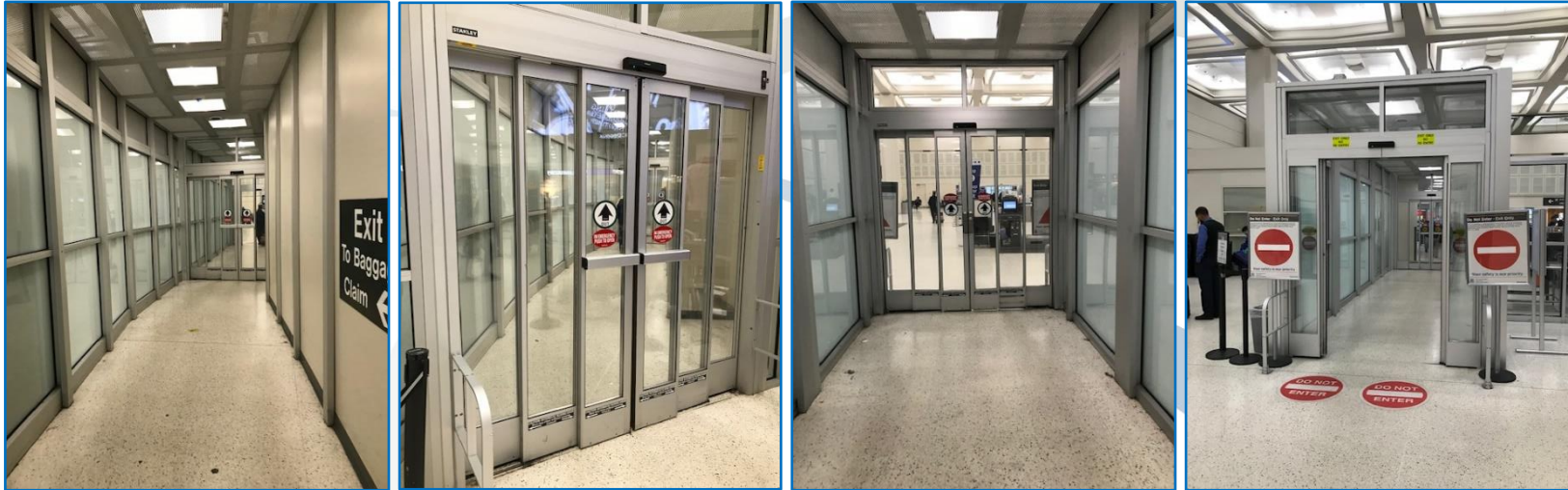


Exit Lane Technology Project

Justina Mann, Assistant Director, Infrastructure Controls



Existing Exit Lane At IAH Terminal B

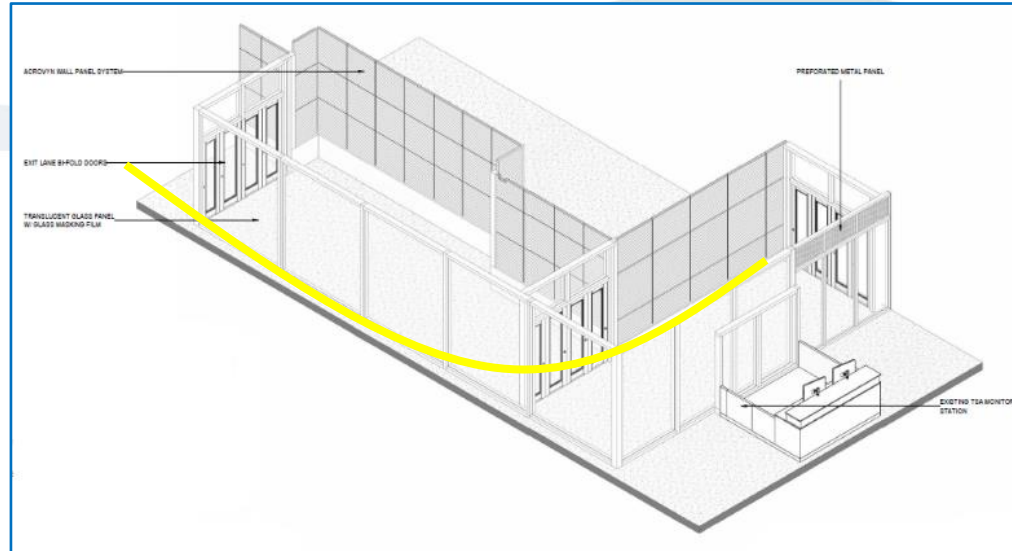


Exit Lane Technology Project

Justina Mann, Assistant Director, Infrastructure Controls



IAH Terminal C

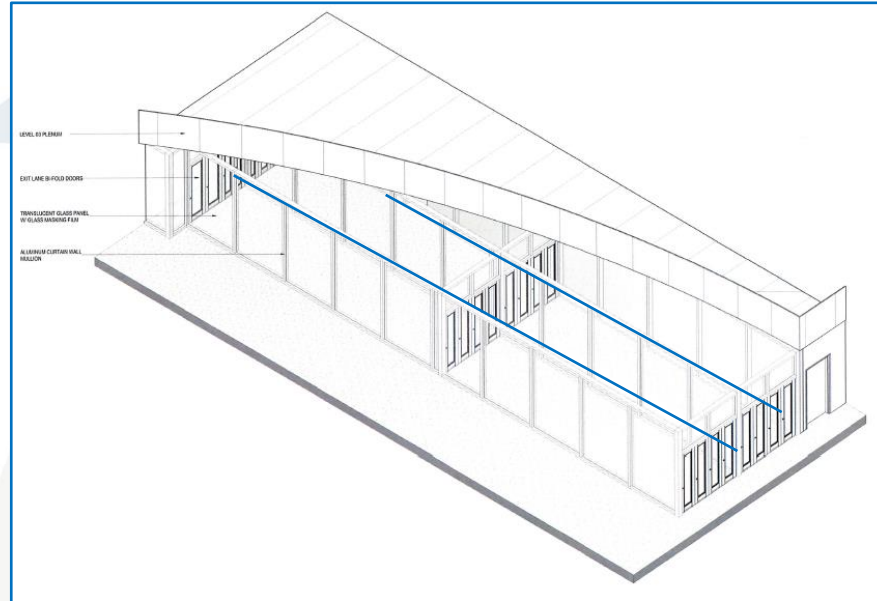


Exit Lane Technology Project

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HOU Terminal Checkpoint



Exit Lane Technology Project

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Project Objectives:

- Install Exit Lane Technology System That Will Provide Containment, Monitoring, Alarming (Audible & Visual), Good Passenger Flow

Milestones:

- | | |
|------------------------------|-----------------------|
| ▪ Design | Complete |
| ▪ Construction Procurement | Third Quarter FY2021 |
| ▪ Construction Award Planned | Second Quarter FY2022 |
| ▪ Project Completion | First Quarter FY2023 |



IAH / HOU Passenger Boarding Bridge Replacement And New Installations Project

Justina Mann, Assistant Director, Infrastructure Controls

IAH / HOU PBB Replacement and New Installations Project

Justina Mann, Assistant Director, Infrastructure Controls



- Project Objectives:
 - Replace End-Of-Service Life Passenger Boarding Bridges (PBB) And Provide A Single PBB Manufacturer Across Both IAH And HOU To Support Standardized Operation And Maintenance For All Airlines And Aircraft Types
- Milestones:

■ Design	Complete
■ Procurement	First Quarter 2021
■ Construction	Third Quarter 2021
■ Completion	First Quarter 2025

IAH / HOU PBB Replacement and New Installations Project

Justina Mann, Assistant Director, Infrastructure Controls



- The Project Consists Of Replacing And Installing Up To A Total Maximum Of 45 New Bridges, Pre-Conditioned Air And Ground Power Units At The Following Locations:
 - IAH Terminal D: Up To 17 Total
 - IAH Terminal A: Up To 23 Total
 - HOU: Up To 5 Total



HOU Restroom Renovations – Phase II

Justina Mann, Assistant Director, Infrastructure Controls

HOU Restroom Renovations – Phase II

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Project Objectives:

- Renovate Three Of The Existing Restroom Banks With New Technologies And Modern Sustainable Materials For An Improved Passenger Experience As Well As For Ease Of Cleaning And Maintenance

Milestones:

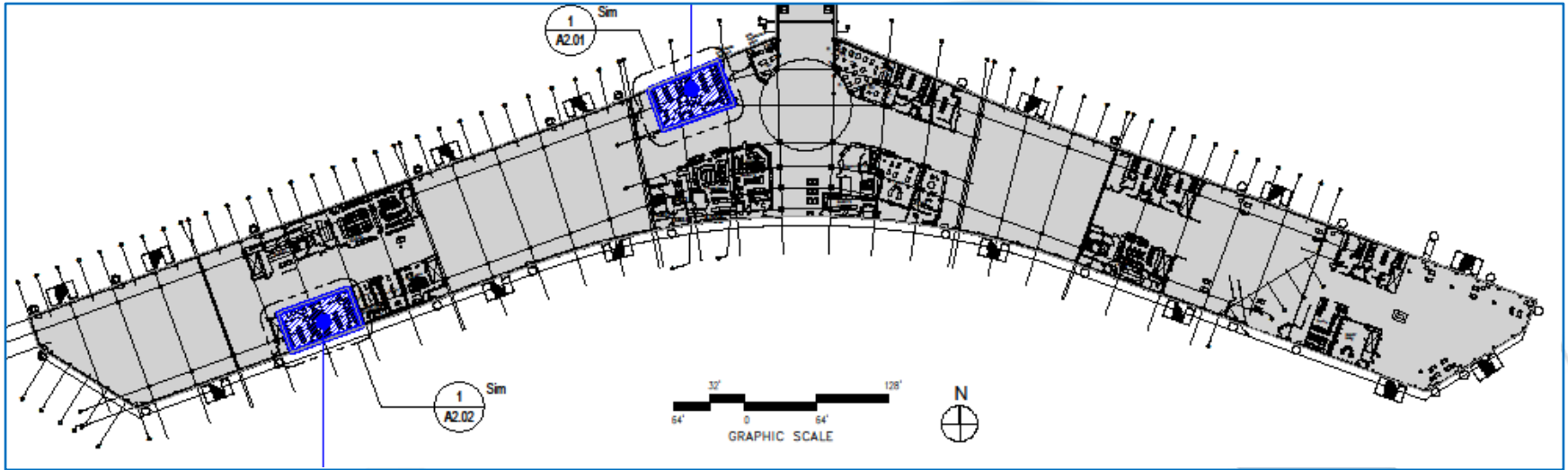
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|--------------------------------------|---------------------|
| ▪ Design Complete / Permit Submittal | Third Quarter 2021 |
| ▪ Construction Procurement | Third Quarter 2021 |
| ▪ Construction Award Planned | Second Quarter 2022 |
| ▪ Project Completion | Fourth Quarter 2022 |

HOU Restroom Renovations – Phase II

Justina Mann, Assistant Director, Infrastructure Controls



Restroom Location – Floor Plan



HOU Restroom Renovations – Phase II

Justina Mann, Assistant Director, Infrastructure Controls



Women's Restroom Elevations

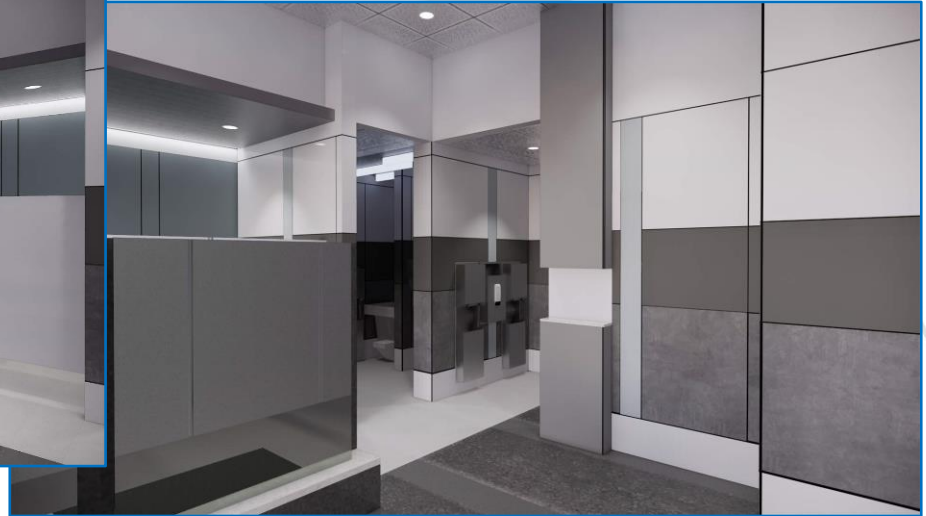


HOU Restroom Renovations – Phase II

Justina Mann, Assistant Director, Infrastructure Controls



Men's Restroom Elevations



HOU Restroom Renovations – Phase II

Justina Mann, Assistant Director, Infrastructure Controls



Concourse Elevations





HOU ARFF Station 81

Justina Mann, Assistant Director, Infrastructure Controls

HOU ARFF Station 81 Project, PN 669

Justina Mann, Assistant Director, Infrastructure Controls

01.12.21 rev



Project Objectives:

- Construct Office Space For Fire Department Administration Offices, HFD Operations Living, And Work Spaces
- Construct Apparatus Bays, Support Spaces, Parking, Etc.
- Project To Be **Delivered In Phases**, Station To Remain Open
- Demolition & Replacement Of Existing ARFF Station 81
- Gross Building Area Is 20,116 Square Feet +/-

Milestones:

- Design Complete / Permit Submittal
- Construction Procurement
- Construction Award Planned
- Project Completion

First Quarter 2021

Second Quarter 2021

Fourth Quarter 2021

Second Quarter 2023



HOU ARFF Station 81 Project, PN 669

Justina Mann, Assistant Director, Infrastructure Controls



EXISTING ARFF STATION 81



HOU ARFF Station 81 Project, PN 669

Justina Mann, Assistant Director, Infrastructure Controls



NEW ARFF STATION 81 – FLOOR PLAN



HOU ARFF Station 81 Project, PN 669

Justina Mann, Assistant Director, Infrastructure Controls



NEW ARFF STATION 81 – ELEVATION



HOU ARFF Station 81 Project, PN 669

Justina Mann, Assistant Director, Infrastructure Controls



NEW ARFF STATION 81 – ELEVATION





IAH ARFF Station 92

Justina Mann, Assistant Director, Infrastructure Controls

IAH ARFF Station 92 Project, PN 668

Justina Mann, Assistant Director, Infrastructure Controls

01.12.21 rev



Project Objectives:

- Construct Office Space For Fire Department Administration Offices, FD Operations Living, And Work Spaces
- Construct Apparatus Bays, Support Spaces, Parking, And Common Areas
- Demolition Of Existing ARFF Station 92
- Gross Building Area Is 21,400 Square Feet +/-

Milestones:

- Design Complete / Permit Submittal
- Construction Procurement
- Construction Award Planned
- Project Completion

Third Quarter 2021
Fourth Quarter 2021
Second Quarter 2022
Fourth Quarter 2023



IAH ARFF Station 92 Project, PN 668

Justina Mann, Assistant Director, Infrastructure Controls



EXISTING ARFF STATION 92



IAH ARFF Station 92 Project, PN 668

Justina Mann, Assistant Director, Infrastructure Controls



NEW ARFF STATION 92 – FLOOR PLAN



IAH ARFF Station 92 Project, PN 668

Justina Mann, Assistant Director, Infrastructure Controls



NEW ARFF STATION 92 – Perspective





IAH Terminal A Arrivals Door Replacement

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IAH Terminal A Arrivals Door Replacement

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Project Objectives:

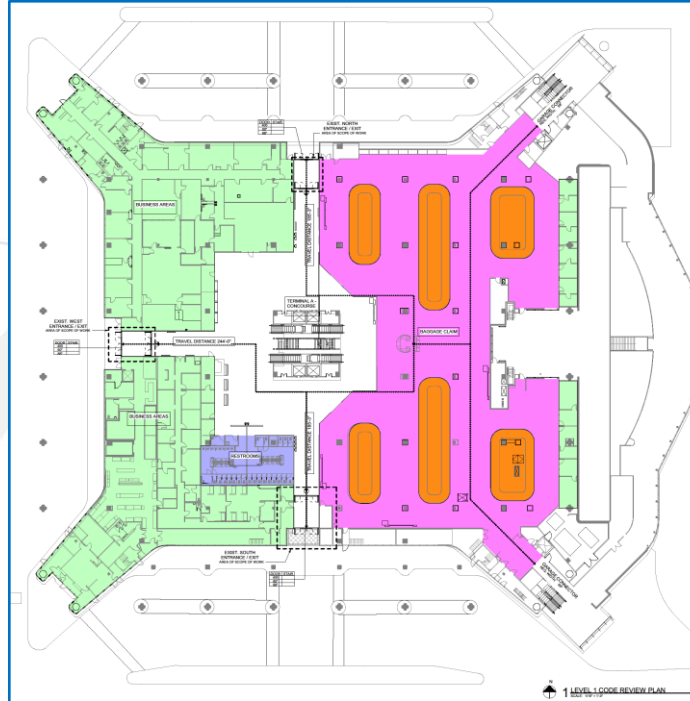
- Removal And Replacement Of The Automatic Doors At The Arrivals Level Of Terminal A
- Phased Demolition Of Existing Automatic Entrance Doors As Well As Required Architectural Demolition And Repairs Associated With Installation Of New Doors

Milestones:

- | | |
|--------------------------------------|--------------------|
| ▪ Design Complete / Permit Submittal | First Quarter 2021 |
| ▪ Construction Procurement | First Quarter 2021 |
| ▪ Construction Award Planned | Third Quarter 2021 |
| ▪ Project Completion | First Quarter 2022 |

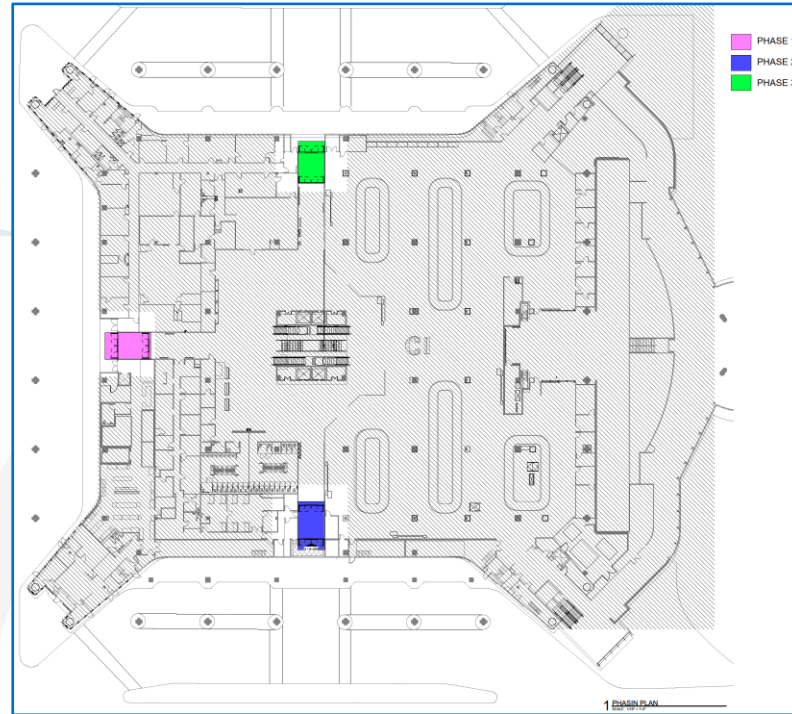
IAH Terminal A Arrivals Door Replacement

Justina Mann, Assistant Director, Infrastructure Controls



IAH Terminal A Arrivals Door Replacement

Justina Mann, Assistant Director, Infrastructure Controls





IAH Terminals B And C Skyway Stations Floor Replacement

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IAH Skyway Stations Floor Replacement

Justina Mann, Assistant Director, Infrastructure Controls

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Project Objectives:

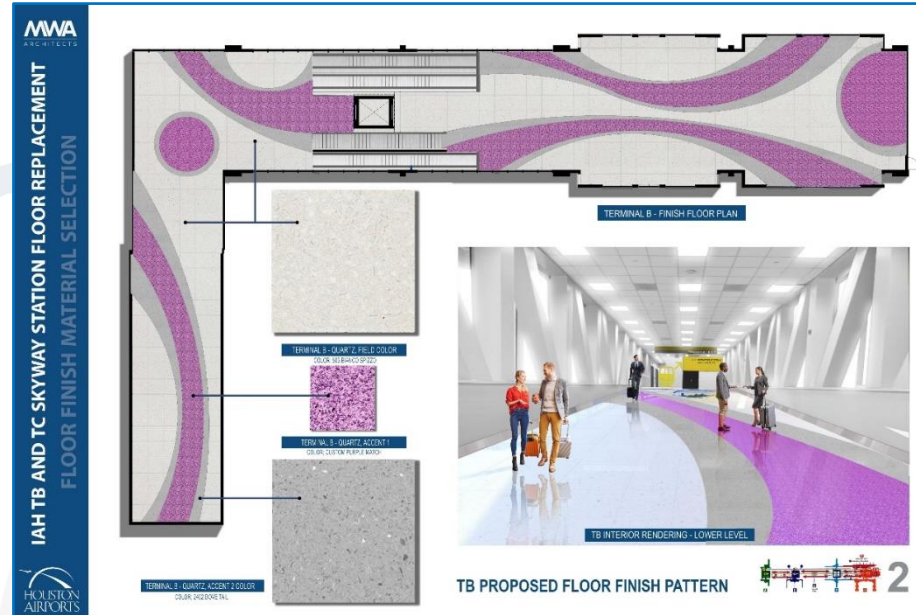
- Replace The Floor Finish At The First Level, And Second Level Of The IAH Skyway Stations Located In Terminal B And Terminal C.
- The Existing Carpet Will Be Replaced With A Suitable Floor Finish
- Terminal B Skyway Station Is Approximately 7,600 Square Feet +/-
- Terminal C Skyway Station Is Approximately 6,400 Square Feet +/-

■ Milestones:

- | | |
|--------------------------------------|---------------------|
| ▪ Design Complete / Permit Submittal | First Quarter 2021 |
| ▪ Construction Procurement | First Quarter 2021 |
| ▪ Construction Award Planned | Fourth Quarter 2021 |
| ▪ Project Completion | Second Quarter 2022 |

IAH Skyway Stations Floor Replacement

Justina Mann, Assistant Director, Infrastructure Controls



IAH Skyway Stations Floor Replacement

Justina Mann, Assistant Director, Infrastructure Controls



IAH Skyway Stations Floor Replacement

Justina Mann, Assistant Director, Infrastructure Controls

MWA
ARCHITECTS


IAH TB AND TC SKYWAY STATION FLOOR REPLACEMENT

FLOOR FINISH MATERIAL SELECTION


HOUSTON AIRPORTS



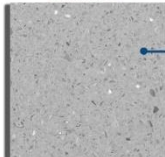
TERMINAL C - FINISH FLOOR PLAN




TERMINAL C - QUARTZ FIELD
COLOR: 100 SANDS 17 223



TERMINAL C - QUARTZ ACCENT
COLOR: CUSTOM BLUE MATCH




TERMINAL C - QUARTZ ACCENT
COLOR: 2100 BERRY 16 1



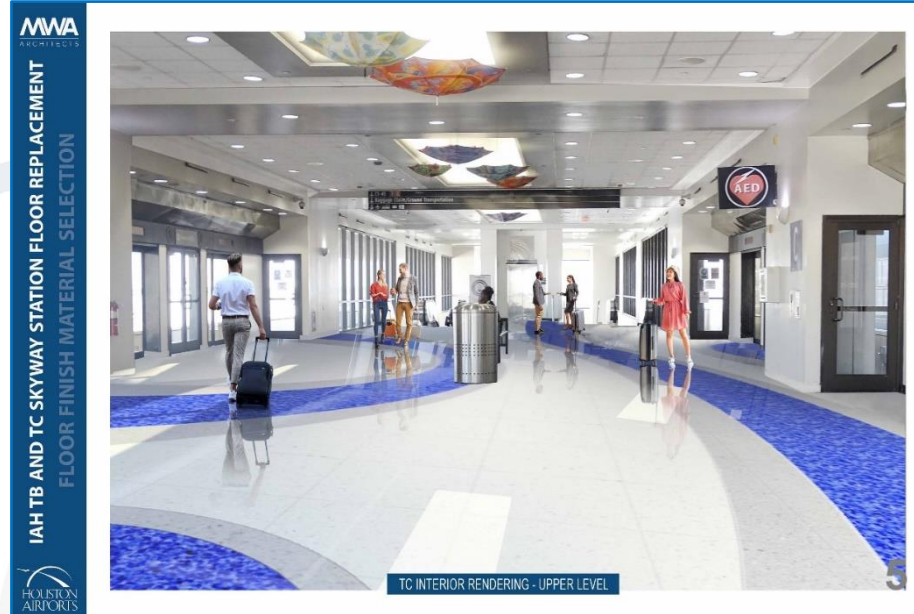
TC INTERIOR RENDERING - LOWER LEVEL

TC PROPOSED FLOOR FINISH PATTERN


4

IAH Skyway Stations Floor Replacement

Justina Mann, Assistant Director, Infrastructure Controls





IAH Terminal Management Offices

Justina Mann, Assistant Director, Infrastructure Controls

IAH Terminal Management Offices

Justina Mann, Assistant Director, Infrastructure Controls

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Project Objectives:

- Terminal A Interior Renovations Of Existing Vacant Office Space
- New Terminal Manager's Suite Measuring 2,200 Square Feet +/-
- Includes Program Requirement Of 5-6 Offices, Reception Area, Copier And Work Area, Conference Room For 10-12 And A Breakroom With Table Seating
- Provide Complete Interior Buildout To Include All Utilities, Fire Protection, Equipment And Finishes To Meet The Program Requirements

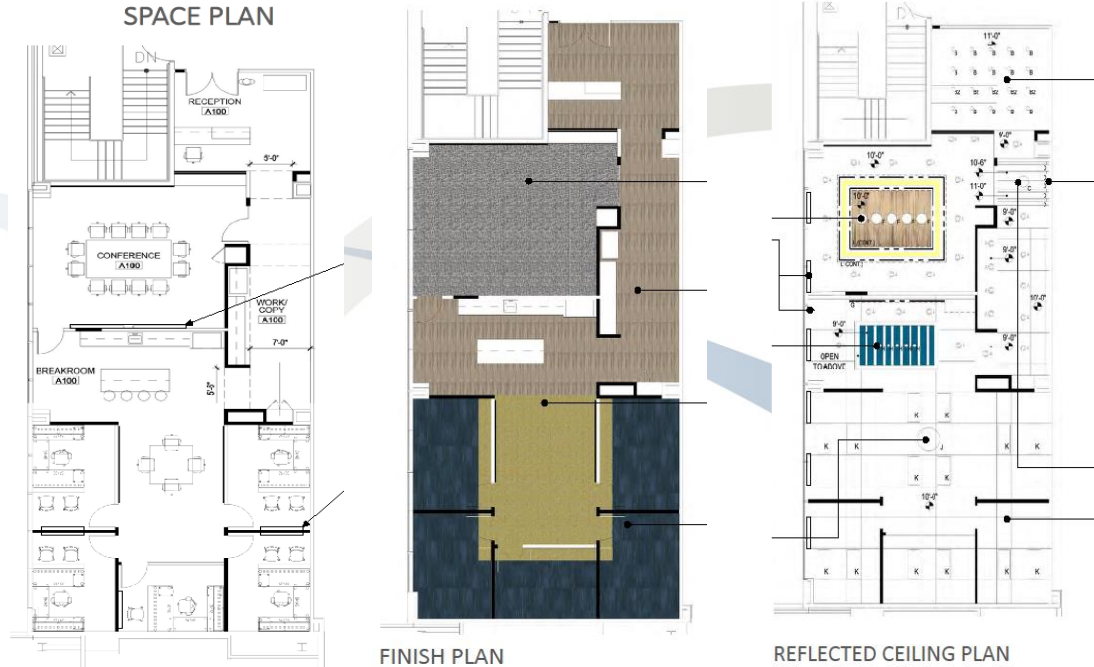
Milestones:

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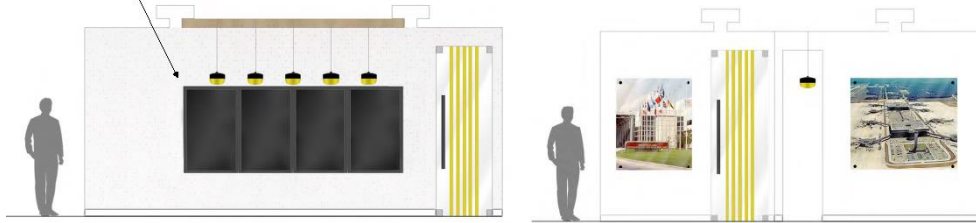
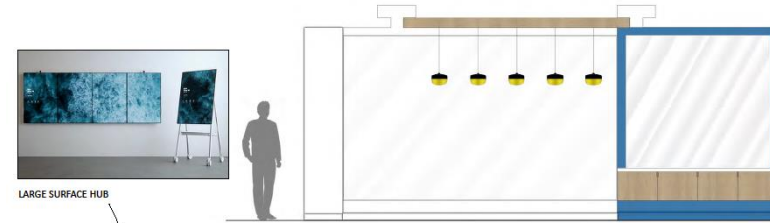
IAH Terminal Management Offices

Justina Mann, Assistant Director, Infrastructure Controls



IAH Terminal Management Offices

Justina Mann, Assistant Director, Infrastructure Controls



CONFERENCE ROOM ELEVATIONS

WORK/COPY AND BREAKROOM ELEVATIONS

IAH Terminal Management Offices

Justina Mann, Assistant Director, Infrastructure Controls



OFFICE AREA RENDERING



8/6/2020

FSG ROUNP ARCHITECTS

IAH Terminal Management Offices

Justina Mann, Director, Infrastructure Controls



RECEPTION/LOBBY RENDERING



08/06/2020 EDITS

FSGROUP ARCHITECTS



Questions



Industry Day
HAS Infrastructure Division
January 14, 2021



THANK YOU for Attending



Industry Day
HAS Infrastructure Division
January 14, 2021