



**IAH Terminal Redevelopment Program (ITRP)
Radio Intermediate Distribution Frame (RIDF) Relocation**
Transportation, Technology & Infrastructure Committee Meeting
September 3, 2020



IAH Terminal Redevelopment Program (ITRP) - Scope Overview

New Terminal C North
Concourse –
Apron & Utilities

International Terminal
– North Concourse
Project



Program Budget - \$1.3B
Program Completion - Early 2025



International Terminal –
Central Processor & Federal
Inspection Service Project



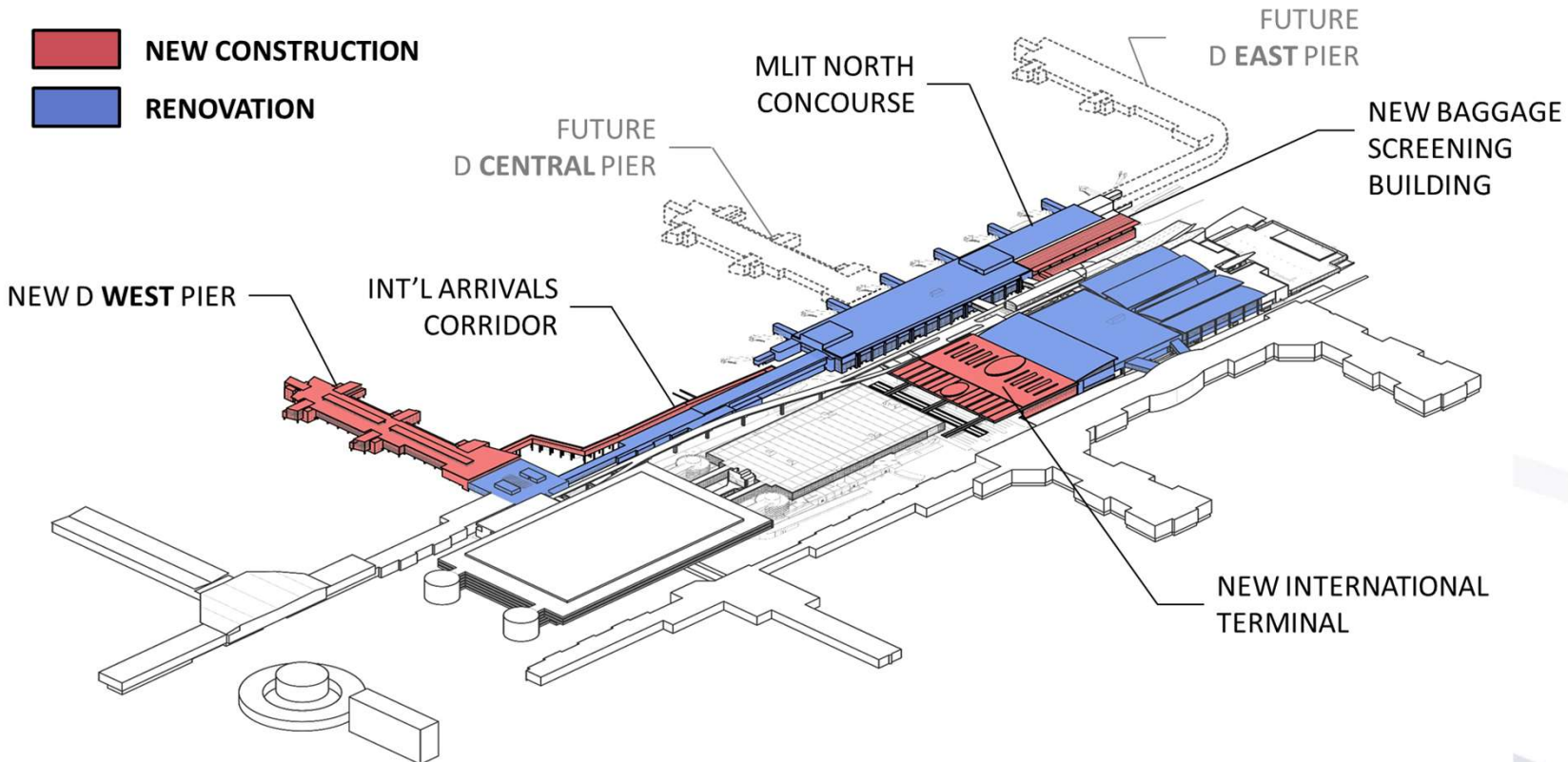
Enabling Utilities
– Landside Project

Infrastructure Division Office
(IDO) Building Project



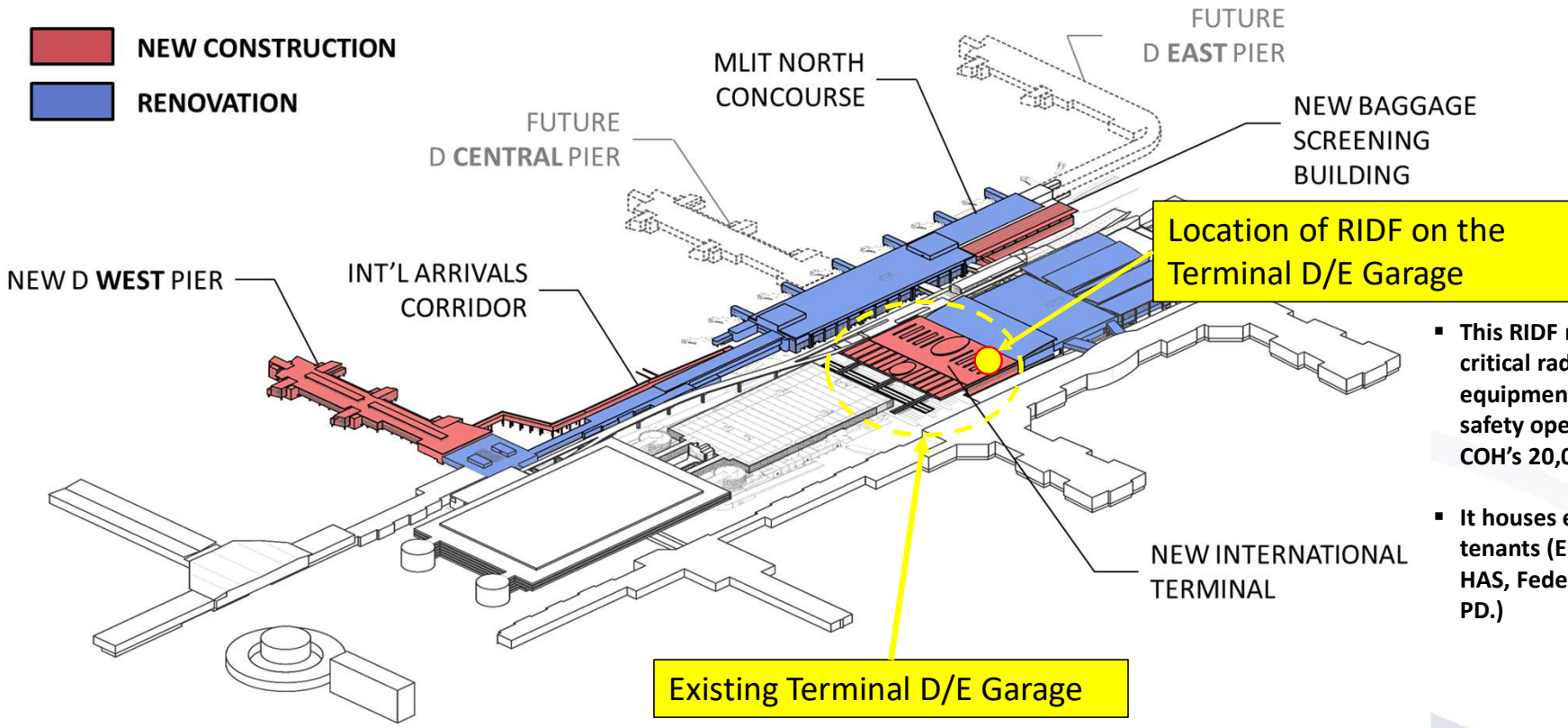


International Terminal Complex - Scope





International Terminal Complex – RIDF (Radio Intermediate Distribution Frame)



- This RIDF room houses mission critical radio communications equipment that supports the public safety operations for IAH and the COH's 20,000 first responder radios.
- It houses equipment for multiple tenants (E.g. City of Houston, HPD, HAS, Federal Agencies, and Humble PD.)



Why is the Relocation of the RIDF required?

- The demolition of the Terminal D/E parking garage is a **key enabling project** to allow for the construction of the New International Terminal Processor.
- The parking garage **demolition requires** the relocation of the RIDF room on the top deck.
- An **alternate site** has been selected after review with Stakeholder's and FAA.
- The new RIDF needs to be operational prior to closing the existing.
- The RIDF contains Mission Critical Radio Communications Equipment supporting public safety operations for the City of Houston's (COH) **First Responders, IAH Operations, as well as Federal Agencies.**
- RIDF is a critical link for the COH radio communication network and acts as an **active redundant master** site for the COH.
- The RIDF new site and operational relocation will be approximately 11 months, including design, construction (1 Year Warranty), commissioning and decommissioning of the existing RIDF Room.
- The ITRP Program will fund the approximate cost of work (\$8.6M).

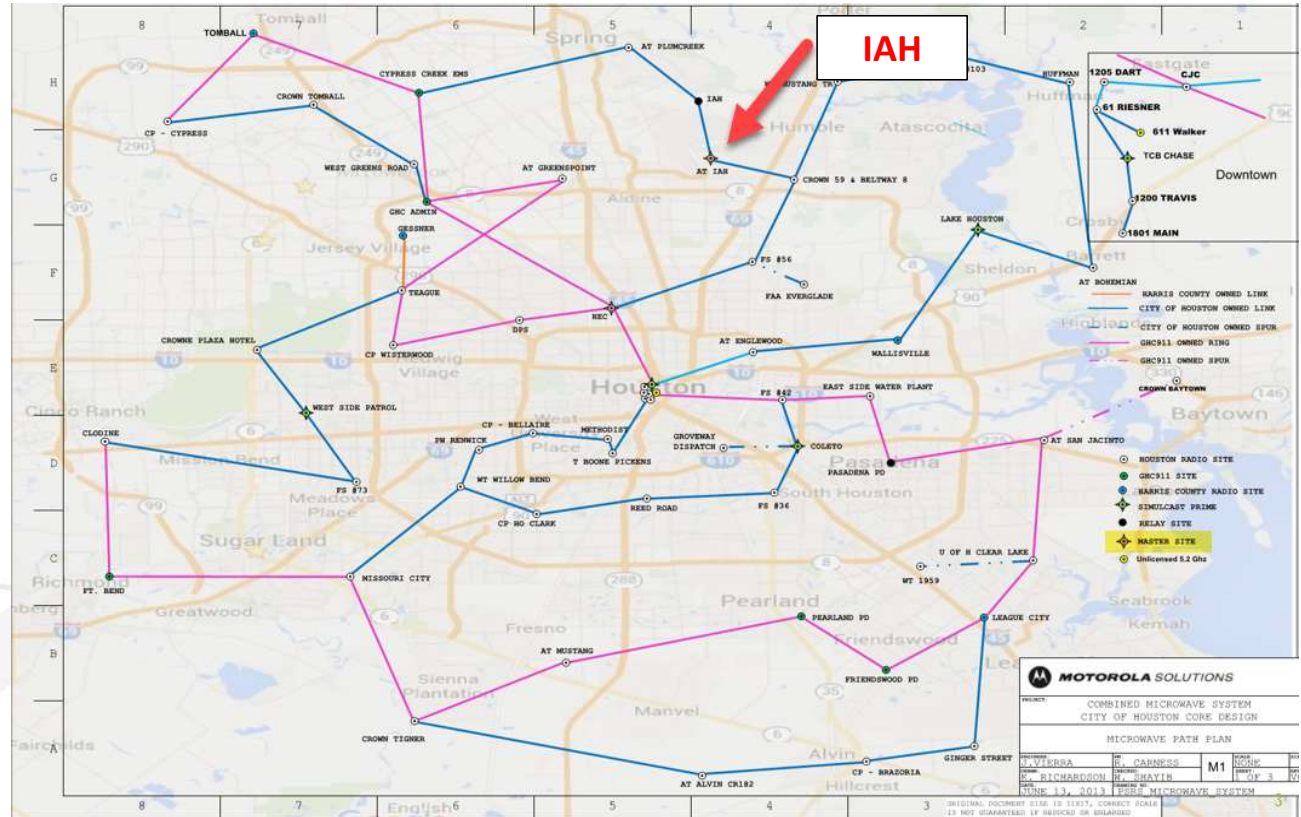


Existing RIDF on Terminal D/E Garage



Public Safety Communications

- Radio Network Infrastructure
 - 2 Master Sites (Primary & Redundant)
 - 8 Prime Sites (Primary and Redundant)
 - Radio Shops (2)
 - Network Operations Center
 - Radio Network Core
 - 52 Tower Sites
 - 92 Radio Microwave Paths
 - Approximately 400 managed FCC licenses
 - 13 Dispatch Console Sites (119 Dispatch Consoles)
 - NICE Audio Logging System
 - 108 Air Conditioners
 - 42 Generators





Public Safety Communications – 2020 Projects Briefing

- As part the HITS briefing on upcoming projects for 2020 in Oct 2019, the RIDF Relocation was listed:

HITS Public Safety Communications



Taunya Harris - Acting Deputy Director
Larvonda Fonteno - Lead IT Infrastructure (Customer Service)
Nick Curran - Lead IT Infrastructure (Systems)
October 10, 2019

Public Safety Communications

2020 PROJECTS

- ▶ Remediation of ATIA site (Harvey Flood Damage)
- ▶ Motorola radio upgrade 2019.2 \$1.4M
- ▶ HFD Fire Station new & Renovations (FS55, FS43, FS31& FS17)
- ▶ Personnel Accountability for HFD
- ▶ HAS Backup Master Site Relocation
- ▶ Enterprise Radio Replacement





Proposed Approach

- The existing equipment was provided, installed and is currently maintained / supported by COH HITS-RCS and Motorola, Inc.
- Motorola, Inc. is the only service provider that can perform this scope :
 - with minimal risk to the operations of IAH and the COH radio networks,
 - without voiding current warranties and maintenance and support contract,
 - without replacing COH existing infrastructure,
 - installation of their proprietary software, and
 - with a complete understanding of the encryption methods and policies employed by the COH radio network (originally provided by Motorola, Inc).
- The existing contract with Motorola, Inc has already been extended to the maximum amount, this contract vehicle is not able to be used.
- The existing DIR Contract can be used and supports additional COH terms and conditions.
- Includes one year of warranty on the equipment.
- **The proposed approach is to expand the DIR Contract with Motorola, Inc to include this work.**



Thank you