

# I-45 NHHIP Segment 1 **General Update**

For additional information about the Project, visit us online at: www.txdot.gov/nhhip

FOOTPRINT REDUCTION

TxDDT remains committed to evaluating reasonable opportunities to reduce the project footprint in Segment 1 in ways that would not compromise the Purpose and Need of the project, as described in the Record of Decision (ROD).

As noted in the VRA, TxDOT agrees that requests to reduce the Project footprint should be evaluated with a focus on the following:

Providing long-term capacity for all users of the roadway, including automobile, freight, and

Serving and preserving the neighborhoods along the corridor while enhancing connectivity between neighborhoods.

TxDOT agrees to use the least amount of right-of-way as allowed and defined by law, after evaluation of the project frontprint

POTENTIAL

Strengthening Houston's economy

## **KEY INFORMATION**

This segment will improve the I-45 between I-610 and Beltway 8 by widening the roadway to accommodate four lanes known as MaX lanes. The roadway would have:

- Four general purpose lanes in each direction with auxiliary lanes.
- Two MaX lane sin each direction operating 24/7 carrying HOV (high-occupancy vehicle) and METRO

- Enhanced bicycle/pedestrian features on streets crossing I-45

of 11 new detention ponds including a joint regional detention pond facility with Harris County Flood Control District (HCFCD) on Halls Bayou just east of I-45, and with the use of increased storm sewer pipe sizes to provide in-line detention

### **CONSTRUCTION PHASING**

14						
TM						
18						
10						

### **PROJECT FUNDING**

INDEPENDENT PROJECTS	ESTIMATED CONTRACT COST	CURRENT FUNDING
14	\$296,800,000	
18	\$386,400,000	· ·
10	\$224,000,000	

The project brings significant economic impacts to the Houston area as well as much needed safety improvements to one of the state's most congested highways. Some 92,000 direct jobs are being created with an additional 89,000 indirect jobs generated from this project. The overall statewide economic impact of NHHP is estimated at 319.2 billion.

The future of transportation is changing and the infrastructure in the nation's fourth largest city needs to change with it. Parts of the I-45 corridor have not changed since being constructed over 50 years ago. The I-45 improvement project not only brings these highways up to current standards, but also prepares for the future by improving realiency to veative events and providing safer more efficient travel that could accommodate the transition to electric and self driving vehicles. And, importantly, but increase the exportunity for transit and high-occupancy vehicles as a mode choice for those traveling along the I-45 North Houston corridor. Additionally, the neighborhoods in the project area will see many specific benefits beyond the economic and asterly improvements.

### **INDEPENDENCE HEIGHTS**

### Flood Control



### Green Space/ Air Quality/ Aesthetics



se Heights is the first African American municipality in Texas, and is in TxDOT's I-45 North Houston Highway Improvement Project (NHHIP) are



Historical









Weatherization Program



### TxDOT has fully, completely, and in good faith complied with all legal requirement in planning for and evaluating and impacts of the NHHIF

er. TxDOT has committed to

### **KEY DESIGN CONSIDERATIONS**

Evaluate wider bridges at Halls Bayou crossing and other locations identified with HCFCD to accommodate future

Proposed new overpass as depicted in the FEIS schematics at Blue Bell Road in accordance with MOU between TxDOT and the City of Houston.

Enhanced pedestrian and bicycle realms along all streets crossing L45.

Provide 12 feet frontage road lanes with curb and buffer to pedestrian and bicycle accommodations.

Proposed I-45 MaX Lanes in center to provide two-lanes each direction with 24-hour/7-day-a-week operations including high occupancy vehicles (HOV), METRO bus and rubber-tire high-capacity transit, and future automomous vehicles.

Bring all lane widths, shoulder widths, and geometry to

Reconstruct direct connectors to and from Shepherd Road to

BELTWAY

45

Evaluate new trails along channel crossing under I-45.

Provide continuous two-lane frontage roads with auxiliary lanes between ramps.

I-45 MaX Lane Connectivity to Beltway 8 Direct Connectors.

145 General Purpose Lane access to and from 145 MaX Lanes between W. Mount Houston Road and West Road; and between Tidwell Road and Parker Road.

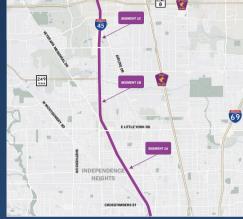
Provide I-45 MaX Lane access to existing METRO Park and Ride Shepherd and Veterans Memorial Drive.

# **SEGMENT 1 PROJECT LIMITS** 8

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### **PROPOSED TYPICAL SECTION**



### **DESIGN REQUEST & RESPONSE**





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### **ROW REDUCTION METHODOLOGY/ GUIDELINES**

Evaluate different ramp envelopes (this is the distance needed between the inside edge of frontage road and general purpose lanes for the ramps)

Braided ramps are where the exit/entrance ramps are in the same space, with one over the other

Meets Project Purpose and Need as stated in Record of Decision (ROD)

No design exceptions

Minimum 20-foot border width on frontage roads

Revised pond locations shown on Segment 1 plan view.

Consider braided ramps where applicable

DRAINAGE