I-45 NHHIP Segment 1 Overview

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

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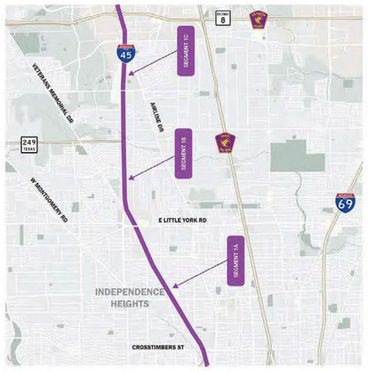
SEGMENT 1 OVERVIEW

Segment 1 encompasses the stretch of I-45 from Airline Drive to Beltway 8. Planned improvements include upgrades to the mainlanes, frontage roads, drainage systems, and enhanced connectivity between I-45 and Beltway 8.

Due to pending funding, the final design for Segment 1 of the I-45 Project has not yet commenced. However, the basic improvements for this segment were approved with the Record of Decision (ROD) in 2021.

The anticipated timeline to begin Segment 1 construction is 2038, though TxDOT may expedite the schedule as funding becomes available.

The estimated construction cost for this portion of the project is $1.15 billion.



Construction Phasing



Project Funding

INDEPENDENT PROJECTS	ESTIMATED CONSTRUCTION COST	CURRENT FUNDING
1A	$360,000,000	-
1B	$474,018,000	-
1C	$312,590,000	-

I-45 NHHIP Segment 1 Key Features



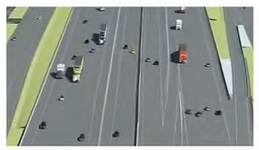
1 I-45 Widening

Expand I-45 to include four Managed Express (MaX) lanes, designed to encourage enhanced transit opportunities and improve overall traffic management.



2 Lane Connections

Establish seamless connectivity between the I-45 Managed Express (MaX) lanes and Beltway 8 connectors, optimizing traffic flow and accessibility.



3 Exit and Entrance Ramp

Provide direct access from the I-45 Managed Express (MaX) lanes to the southbound frontage road and northbound exit between Aldine Bender and West Roads, improving traffic flow and local accessibility.



4 General Purpose to MaX Lanes Access

Enable seamless access between I-45 general-purpose lanes and MaX lanes at key points between W. Mount Houston and West Roads, as well as between Tidwell and Parker Roads, improving traffic flow and flexibility for drivers.



5 Halls Bayou

Expand bridges at the Halls Bayou crossing to support future channel widening, enhancing flood management and infrastructure resilience.



6 Bike/Pedestrian Paths

Addition of bike/pedestrian paths running the length of the corridor to support multi-modal transportation and at each intersection to support connectivity for communities across the corridor.



7 New Proposed Overpass

Construct a new overpass at Blue Bell Road, in alignment with the Memorandum of Understanding (MOU) between TxDOT and the City of Houston, enhancing connectivity and traffic flow.



8 Auxiliary Lanes

Add auxiliary lanes between entrance and exit ramps at select locations to improve traffic flow and enhance safety for drivers.



9 Detention Ponds

Multiple detention ponds have been designated in collaboration with the Harris County Flood Control District (HCFCD) to enhance regional flood resiliency and mitigate stormwater impacts.



10 Lanes and Shoulder Width

Upgrade all lane widths, shoulder areas, and interchange configurations to meet modern design and safety standards, enhancing both traffic flow and driver safety.

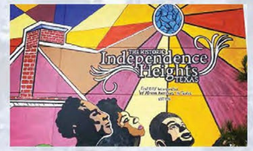


11 INDEPENDENCE HEIGHTS

Independence Heights, the first African American municipality in Texas, is located within TxDOT's I-45 NHHIP area. TxDOT has committed to preserving the historical significance of this community through actions that enhance storm resiliency, reduce noise, and provide aesthetic improvements, all in support of its rich historic heritage.



Flood Risk Reduction



History Highlighted



Sound Walls



Mitigate Dust & Noise



Small Park/ Green Space



Historic Asset Documentation

Key Takeaways

Segment 1 roadway improvements will improve safety and mobility. Segment 1 drainage improvements will improve flood resliency.