HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 3

PRELIMINARY
SUBJECT TO CHANGE

HNTB Corporation
1301 Fannin St., Suite 1600
Houston, TX 77002
TBPE Firm Registration No. 455

HNTB

BOUNDARY: HARRIS/MONTGOMERY COUNTY LINE
LIMITS: FROM SH 225 TO I-45

CONCEPTUAL LAYOUT
NHHIP

COUNTY: HARRIS
LIMITS FROM: BW8
LIMITS TO: SPUR 527

CSJ:
DATE: 25-APR-2017
APPROVED: / /

NOT A BIDDING DOCUMENT

PLAN LEGEND

SYMBOLOGY	ROADWAY	STYLE
CENTERLINE		
I-45 MAINLANES		
I-45/US 59 MAINLANES		
I-10 MAINLANES		
SH 288 MAINLANES		
I-610 MAINLANES		
I-10 MAX LANES		
MAX LANES		
FRONTAGE ROADS		
LOCAL STREETS		
RAMPS		
DIRECT CONNECTOR		
POTENTIAL GREENSPACE		
EXISTING ROW? TO BE REMOVED		
SURPLUS ROW		
EMBANKMENT		
PROPOSED CONTROL OF ACCESS		
PROP DEIS ROW		
PROP FEIS ROW		
EXISTING ROW		
ACCESS ROAD		
METRO RAIL RED (MAIN STREET LINE)		
METRO RAILEAST END LINE		
METRO RAIL(SOUTHEAST LINE)		
RAILROAD		
LIMITS OF FLOODWAY		
EXISTING LANE DIRECTIONAL INDICATOR:		
MAIN LANES		VOO
FRONTAGE ROADS/TURNAROUNDS		VOO
PROPOSED LANE DIRECTIONAL INDICATOR:		
MAIN LANES		
FRONTAGE ROADS/TURNAROUNDS		
RAMPS		
DIRECT CONNECTOR		
MAX LANES		

SCALE
0 400 800 1200 1600

INTERSECTION GEOMETRY AND THE PROPOSED NUMBER OF LANES IS SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENT OF THE PROPOSED RECOMMENDED ALTERNATIVE.

SEGMENT 3
LOCATION MAP : N.T.S.

SURVEY DATA: TEXAS SOUTH CENTRAL ZONE #4204 (HARRIS COUNTY) ADJUSTED TO SURFACE USING COMBINED SCALE FACTOR 1.00013

PRELIMINARY SUBJECT TO CHANGE

Major Concern: The Fannin exit is removed. Fix: restore the exit

May 2017 Update: San Jacinto on-ramp is moved from the west side of the street to the east side

Concern (fix not expected): This single-lane entrance is the only access to SH 288 southbound from the entire downtown area.

Concern: Traffic on this ramp may weave across five lanes of traffic to reach the Almeda exit. Potential remedy: restore the Fannin exit to give motorists another Midtown exit option

Concern: The merge-weave zone for the lanes from SH 288 is short; only about 1400 feet, about the same as the currently-existing design

Concern: On-ramp to IH 45 southbound from Pierce Street is removed

PROPOSED TXDOT IMPROVEMENTS BY DP 288 PROGRAM

PROPOSED TXDOT IMPROVEMENTS CURRENTLY UNDER DESIGN

Concern: IH 10 westbound express lanes reduced from three lanes to one lane (This is probably in anticipation of future westward extension of the express lanes)

May 2017 Update: IS southbound connection to southbound downtown Spur has 3 lanes (previously was 2 lanes)

May 2017 Update: I10 eastbound main lanes have been shifted to the west edge of the right-of-way

May 2017 Update: New "FUTURE" connection ramp from IH 45 southbound Max lanes to IH 10 westbound express lanes

May 2017 Update: New "FUTURE" connection ramp from IH 10 eastbound express lanes to IH 45 northbound MaX lanes

Concern: On-ramp from Quitman has no merging zone, creating a dangerous choke point with traffic on the ramp. Fix: include a dedicated lane for the Quitman on-ramp

FUTURE DIRECT CONNECTORS BY OTHERS

May 2017 Update: Downtown Spur northbound has two lanes connecting into 45 northbound main lanes (previously was one lane)

May 2017 Update: 45 SB exit to Milam is now from the same ramp going to the downtown spur (was previously directly form the 45 main lanes)

May 2017 Update: I10 EB to DTN CONN is now much further south, and the exit is now 2 lanes (previously was 1 lane)

May 2017 Update: Northbound frontage road has been shifted to the west south of Allen Parkway (previously crossed to to Houston Street north of Allen Parkway)

May 2017 Update: An extra lane has been added in both directions

May 2017 Update: Exit now has 3 lanes (previously was 2)

May 2017 Update: IH 10 eastbound exit to Smith Street is now 1 lane (previously was 2 lanes)

Major Concern: This is the only definite entrance to the northbound IH 45 MaX lanes inside the loop. (A potential connection from the IH 10 eastbound express lanes is shown.)

May 2017 Update: 45SB to 10 EB ramp is shifted slightly east

May 2017 Update: 45SB to 69 SB ramp is now replacing previous connection further south

May 2017 Update: 69 HOV lanes and on-ramp from Kirby Drive are realigned

Concern: Traffic making the 69SB TO 45SB connection must weave across 3 lanes in a distance of about 2200 feet just after entering the tunnel, when people's vision will be adjusting to darker conditions (during the day)

May 2017 Update: Two lanes are maintained from the 69 SB RAMP TO 45SB but are reduced to 1 lane at this point

May 2017 Update: I10 eastbound frontage road is now two-way to eliminate section on Jensen

May 2017 Update: IH 10 eastbound exit to Jensen eliminated

May 2017 Update: IH 10 eastbound, three main lanes are maintained through the IH 69 interchange

May 2017 Update: IH 10 eastbound express lanes reduced to one lane before merging back into main lanes

May 2017 Update: I-Lum added at Lamar

UPRR RR
METRO RAIL RED (MAIN STREET LINE)
METRO RAIL (SOUTHEAST LINE)
METRO RAIL (EAST END LINE)
SURPLUS ROW
LIMITS OF FLOODWAY
POTENTIAL DETENTION
GEORGE R. BROWN OPERATIONS AREA
BNSF RR
BUFFALO BAYOU
WHITE OAK BAYOU
BRAYS BAYOU
LITTLE WHITE OAK BAYOU