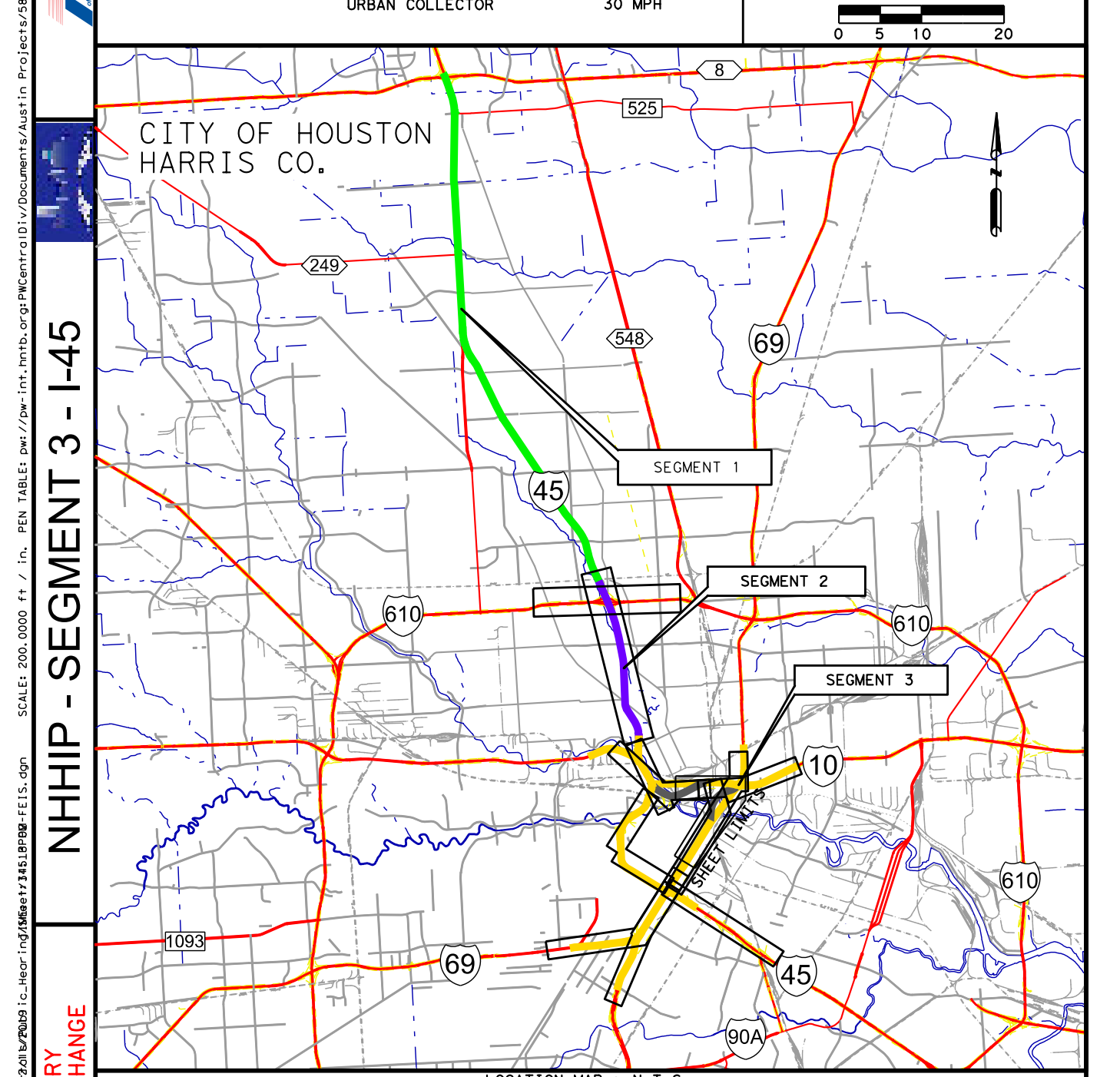
FEIS SCHEMATIC

NHHIP
I-45 SEGMENT 3

COUNTY:	HARRIS	CONSTRUCTION CSJ:	0027-13-200, 0027-13-201, 0027-13-221, 0500-03-598, 0500-03-599, 0500-03-601, 0500-08-001
LIMITS FROM:	SCOTT ST		
LIMITS TO:	QUITMAN ST		
DATE:	12/11/2019	PRELIMINARY CSJ:	0912-00-146, 0912-00-147, 0912-00-479
APPROVED:			

ROADWAY	FUNCTIONAL CLASSIFICATION	DESIGN SPEED
MAINLANES	URBAN FREEWAY	50 MPH
DIRECT CONNECTORS	DIRECT CONNECTORS	40 MPH
RAMPS	RAMPS	40 MPH
CITY STREETS	URBAN MINOR ARTERIAL/ URBAN COLLECTOR	30 MPH

HORZ SCALE: 1"=200'
0 50 100 200
VERT SCALE: 1"=20'
0 5 10 20


CITY OF HOUSTON
HARRIS CO.
SEGMENT 1
SEGMENT 2
SEGMENT 3
8
525
249
548
69
45
610
10
1093
90A

LOCATION MAP : N.T.S.
SURVEY DATA: TEXAS SOUTH CENTRAL ZONE #4204 (HARRIS COUNTY)
ADJUSTED TO SURFACE USING COMBINED SCALE FACTOR 1.00013

PLAN LEGEND

SYMBOLOGY	ROADWAY	BRIDGE	STYLE	LINE WT	COLOR CODE	
CENTERLINE			— - —	2	BLACK	0
I-45 MAINLANES	🟨	🟥	——	2	BLACK	0
I-69/US 59 MAINLANES	🟦	🟦	——	2	BLACK	0
I-10 MAINLANES	🟩	🟪	——	2	BLACK	0
SH 288 MAINLANES	🟪	🟫	——	2	BLACK	0
I-610 MAINLANES	🟩	🟩	——	2	BLACK	0
I-10 EXPRESS LANES	🟦	🟪	——	2	PINK	10
MAX LANES	🟪	🟪	——	2	PINK	28
LOCAL STREETS	🟩	🟦	——	2	BLUE	1
RAMPS	🟦	🟦	——	2	RED	3
DIRECT CONNECTOR	🟧	⬛	——	2	MAGENTA	5
PEDESTRIAN REALM	🟫	🟨	——	1	GREEN	155
HIGHWAY CAP/POTENTIAL OPEN SPACE			▨	7		
EXISTING RDWY TO BE REMOVED			▨	1		
SURPLUS ROW			▨	3	RED	3
PROPOSED CONTROL OF ACCESS			—II—	0	RED	3
PROPOSED FEIS ROW			▬ ▪ ▬	6	BLUE	126
EXISTING ROW			— — —	1	BLACK	0
ACCESS ROAD			- - - -	1	BLUE	1
METRO RAIL RED (MAIN STREET LINE)			++++++	1	RED	3
METRO RAIL(EAST END LINE)			++++++	1	GREEN	156
METRO RAIL(SOUTHEAST LINE)			++++++	1	PURPLE	203
RAILROAD			++++++	1	BLACK	0
LIMITS OF FLOODWAY			——	1	BLUE	171
PLANIMETRIC			✿	2	GREEN	2
TRAFFIC COUNT YEAR (2040) DHV			0000	0	BLACK	0
AM MAX LANE TRAFFIC COUNT YEAR (2040) DHV			0000 AM	0	BLACK	0
PM MAX LANE TRAFFIC COUNT YEAR (2040) DHV			0000 PM	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR:						
MAIN LANES			⇨	0	BLACK	0
TURNAROUNDS			⇨	0	BLUE	168
PROPOSED LANE DIRECTIONAL INDICATOR:						
MAIN LANES			➡	1	BLACK	0
TURNAROUNDS			➡	1	BLUE	168
RAMPS			➡	1	RED	3
DIRECT CONNECTOR			➡	1	RED	139
MAX LANES			➡	1	MAGENTA	5
DEPRESSED			—x—x—	3	RED	3
BY OTHERS			— — —	3	BLUE	1
RETAINING WALL			▬▬	6	RED	3
PROPOSED AESTHETIC WALL			▬▬	6	PURPLE	203
PROPOSED NOISE BARRIER			▬▬	6	LT GREEN	196

PRELIMINARY
SUBJECT TO CHANGE

HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 3 - I-45

HNTB Corporation
1301 Fannin St, Suite 2000
Houston, TX 77002
TBPE Firm Registration No. 420

FILE LOCATION: pw://pw-int.hntb.org:PWCentralDiv/Documents/Austin Projects/58557 SPD 5 by 25/Design and Engineering/I45_NHHIP/Roadway/Public_Hearing

PREPARED BY: mmckenna

ROADWAY: I-45 NORTH
COUNTY: HARRIS
LIMITS FROM: BELTWAY 8
LIMITS TO: I-69

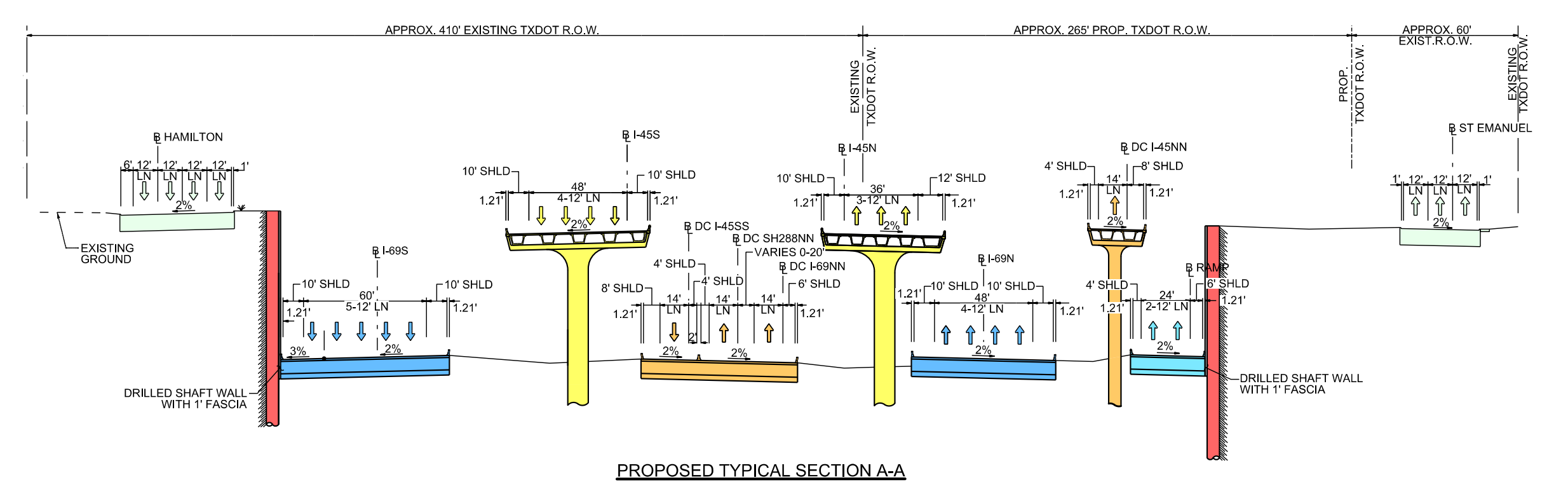
2/9

PRELIMINARY
SUBMITTED FOR REVIEW
Engineer: DARRIN J. WILLER
P.E. Serial No.: 82119
Date: 12/11/2019
Signature:
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

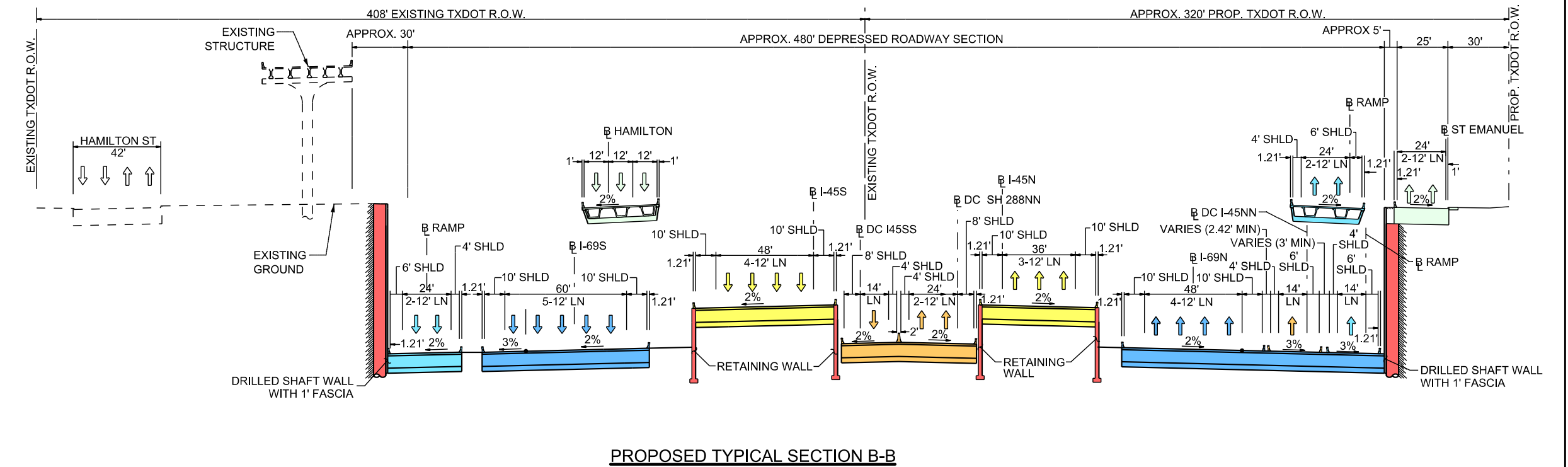
TxDOT (DISTRICT-"APPROVED BY") LETTER DATED

FHWA REPRESENTATIVES ("APPROVED BY") LETTER DATED

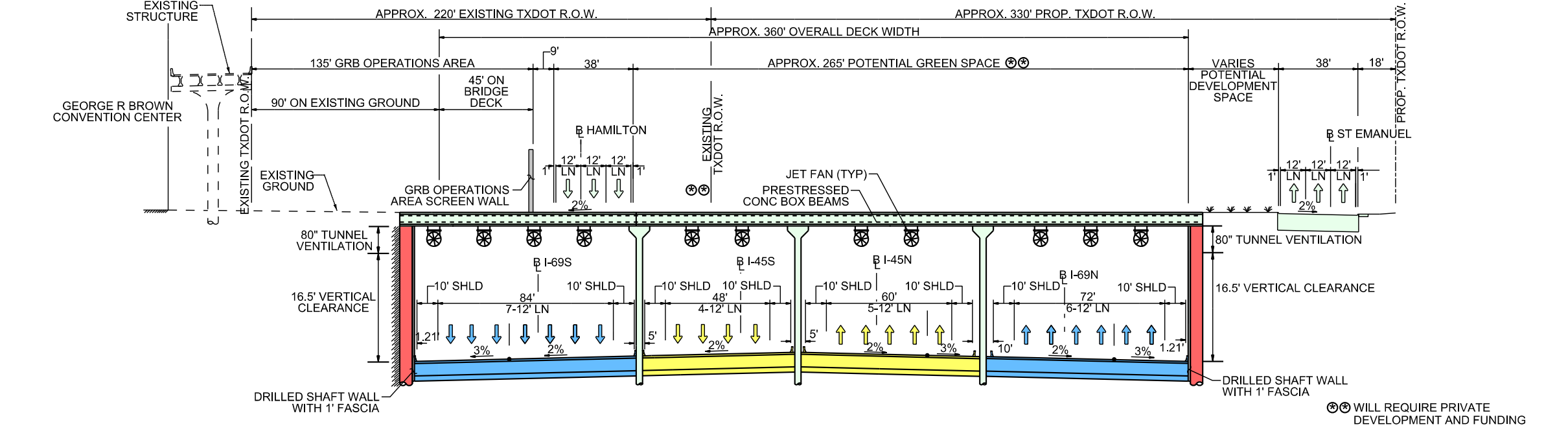
SHEET 2 OF 9


APPROX. 410' EXISTING TXDOT R.O.W.
APPROX. 265' PROP. TXDOT R.O.W.
APPROX. 60' EXIST. R.O.W.
EXISTING TXDOT R.O.W.
PROP. TXDOT R.O.W.
℄ HAMILTON
℄ I-45S
℄ I-45N
℄ DC I-45NN
℄ ST EMANUEL
℄ I-69S
℄ DC I-45SS
℄ DC SH288NN
℄ DC I-69NN
℄ I-69N
℄ RAMP
EXISTING GROUND
DRILLED SHAFT WALL WITH 1' FASCIA

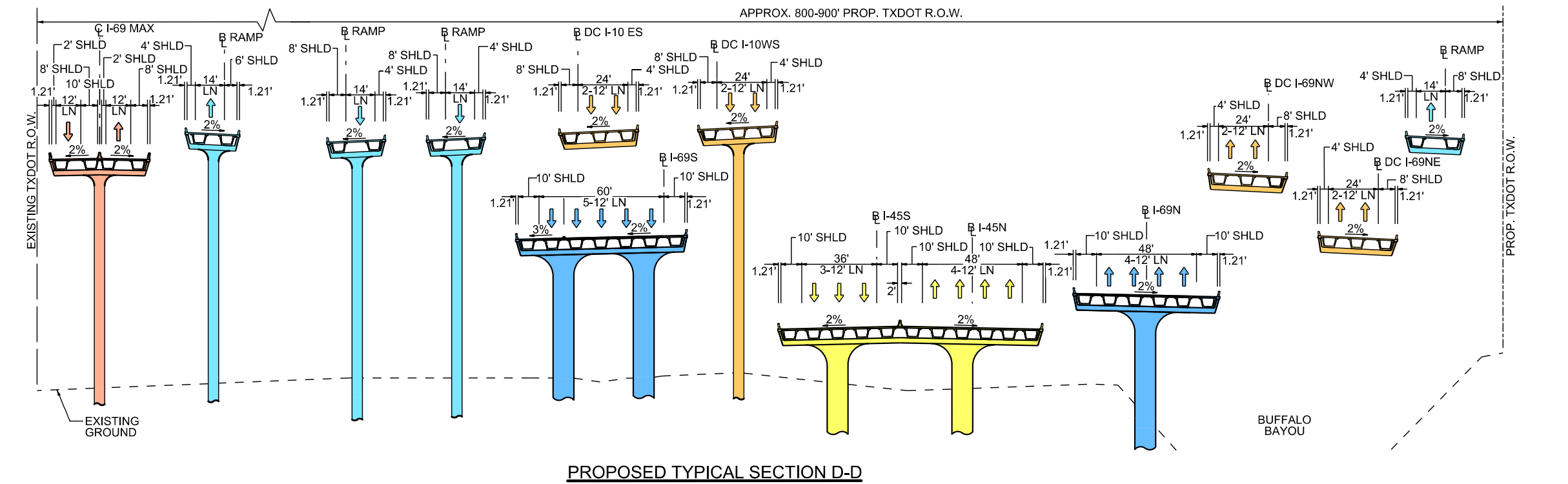
PROPOSED TYPICAL SECTION A-A
NTS


408' EXISTING TXDOT R.O.W.
APPROX. 320' PROP. TXDOT R.O.W.
APPROX. 480' DEPRESSED ROADWAY SECTION
EXISTING STRUCTURE
HAMILTON ST
℄ HAMILTON
℄ RAMP
℄ I-69S
℄ I-45S
℄ DC I45SS
℄ I-45N
℄ DC SH 288NN
℄ DC I-45NN
℄ I-69N
℄ ST EMANUEL
EXISTING GROUND
RETAINING WALL
DRILLED SHAFT WALL WITH 1' FASCIA

PROPOSED TYPICAL SECTION B-B
NTS

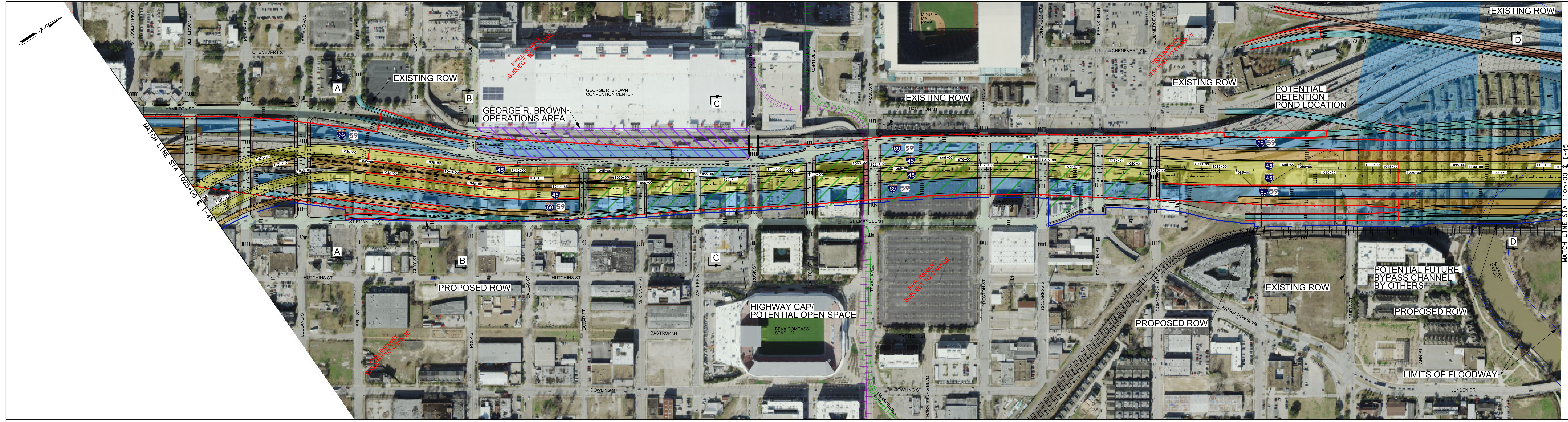

APPROX. 220' EXISTING TXDOT R.O.W.
APPROX. 330' PROP. TXDOT R.O.W.
APPROX. 360' OVERALL DECK WIDTH
135' GRB OPERATIONS AREA
APPROX. 265' POTENTIAL GREEN SPACE ⊕⊕
90' ON EXISTING GROUND
45' ON BRIDGE DECK
VARIES POTENTIAL DEVELOPMENT SPACE
EXISTING STRUCTURE
GEORGE R BROWN CONVENTION CENTER
GRB OPERATIONS AREA SCREEN WALL
JET FAN (TYP)
PRESTRESSED CONC BOX BEAMS
80" TUNNEL VENTILATION
16.5' VERTICAL CLEARANCE
DRILLED SHAFT WALL WITH 1' FASCIA
⊕⊕ WILL REQUIRE PRIVATE DEVELOPMENT AND FUNDING

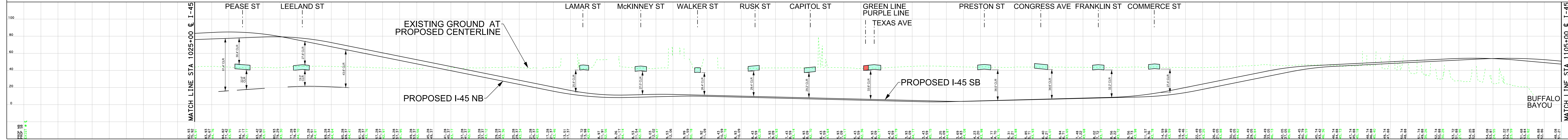
PROPOSED TYPICAL SECTION C-C
NTS

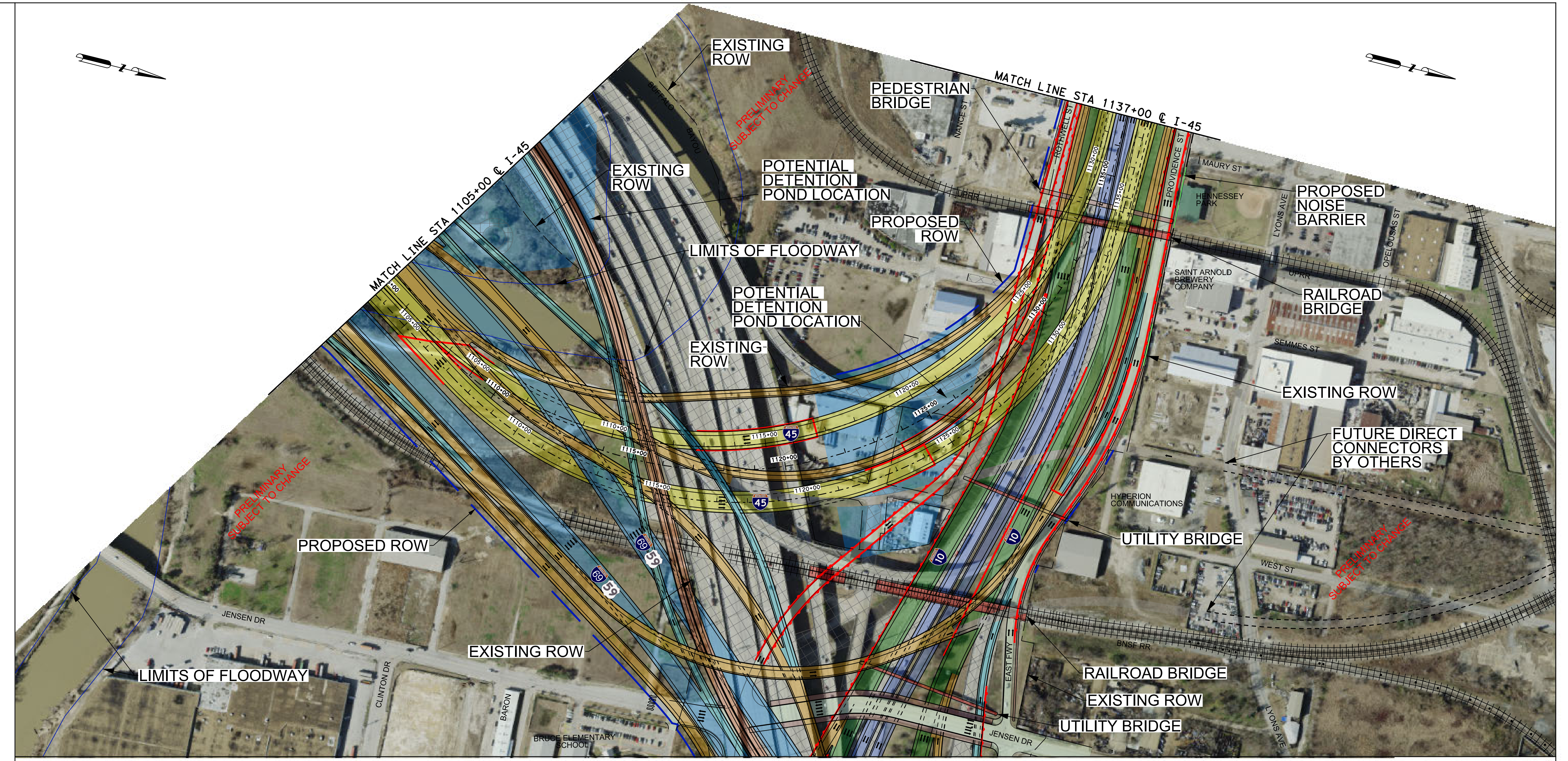
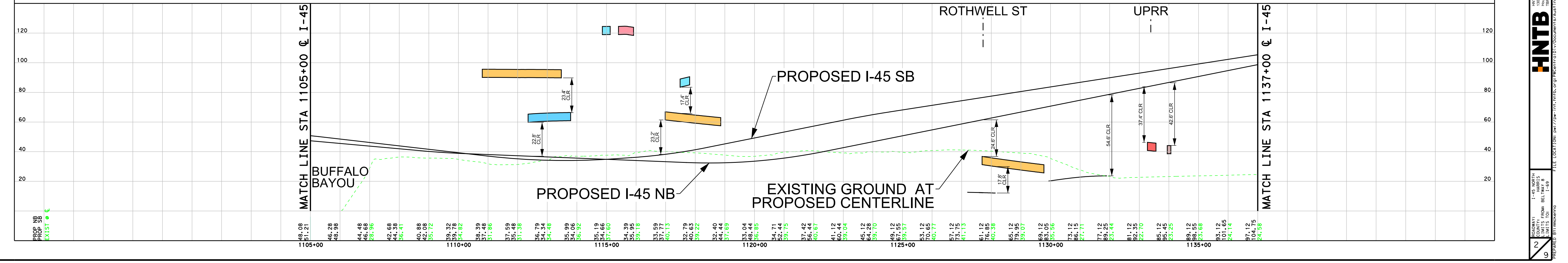

APPROX. 800-900' PROP. TXDOT R.O.W.
EXISTING TXDOT R.O.W.
PROP. TXDOT R.O.W.
℄ I-69 MAX
℄ RAMP
℄ DC I-10 ES
℄ DC I-10WS
℄ I-69S
℄ I-45S
℄ I-45N
℄ I-69N
℄ DC I-69NW
℄ DC I-69NE
EXISTING GROUND
BUFFALO BAYOU

PROPOSED TYPICAL SECTION D-D
NTS

PROFILE LEGEND
- PROP. PGL @ CL/NB/EB MAINLANE
- PROP. PGL @ SB/WB MAINLANE
- PROP. PGL @ MAX LANES
- EXISTING GROUND @ PGL
- 100 YR. W.S.E.
- PROP. PGL @ NB/EB RAMP
- PROP. PGL @ SB/WB RAMP
- PROP. PGL @ NB/EB DC
- PROP. PGL @ SB/WB DC
- PROP. PGL @ NB/EB FRONTAGE
- PROP. PGL @ SB/WB FRONTAGE
- PROP. PGL @ LOCAL ST
- EXIST. GRND. @ NB/EB ROW
- EXIST. GRND. @ SB/WB ROW


MATCH LINE STA 1025+00 ℄ I-45
MATCH LINE STA 1105+00 ℄ I-45
EXISTING ROW
PROPOSED ROW
GEORGE R. BROWN OPERATIONS AREA
GEORGE R. BROWN CONVENTION CENTER
PRELIMINARY SUBJECT TO CHANGE
HIGHWAY CAP/ POTENTIAL OPEN SPACE
BBVA COMPASS STADIUM
MINUTE MAID PARK
POTENTIAL DETENTION POND LOCATION
POTENTIAL FUTURE BYPASS CHANNEL BY OTHERS
LIMITS OF FLOODWAY
BUFFALO BAYOU
A
B
C
D
HAMILTON ST
ST EMANUEL ST
CHENEVERT ST
HUTCHINS ST
BASTROP ST
DOWLING ST
NAVIGATION BLVD
JENSEN DR
BNSF RR
PEASE ST
LEELAND AVE
BELL ST
CLAY ST
POLK ST
DALLAS ST
LAMAR ST
McKINNEY ST
WALKER ST
RUSK ST
CAPITOL ST
TEXAS AVE
PRESTON ST
CONGRESS ST
FRANKLIN ST
COMMERCE ST
RUIZ ST
CANAL ST
RUNNELS ST
ANN ST
HARRISBURG BLVD
SOUTHEAST LINE
EAST END LINE
45
69
59




MATCH LINE STA 1105+00 ℄ I-45
MATCH LINE STA 1137+00 ℄ I-45
EXISTING ROW
PEDESTRIAN BRIDGE
POTENTIAL DETENTION POND LOCATION
PROPOSED ROW
LIMITS OF FLOODWAY
PROPOSED NOISE BARRIER
RAILROAD BRIDGE
FUTURE DIRECT CONNECTORS BY OTHERS
UTILITY BRIDGE
PRELIMINARY SUBJECT TO CHANGE
HENNESSEY PARK
SAINT ARNOLD BREWERY COMPANY
HYPERION COMMUNICATIONS
BRUCE ELEMENTARY SCHOOL
ROTHWELL ST
PROVIDENCE ST
MAURY ST
LYONS AVE
OPELOUSAS ST
SEMMES ST
NANCE ST
WEST ST
JENSEN DR
CLINTON DR
BARON
EAST FWY
BNSF RR
UPRR
45
69
59
10