HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP FEIS SCHEMATIC - SEGMENT 1 - I-45

PEN TABLE: PEN SCALE: $SCALE$ TIME: $TIME$ DATE: $DATE$ FILE LOCATION: DGN PREPARED BY: $USER$

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: I-45
COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8

2 / 4

FEIS SCHEMATIC

NHHIP
I-45 SEGMENT 1

COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8
DATE: 4/19/2019
APPROVED:

CONSTRUCTION CSJ: 0110-06-132
0110-06-139
0500-03-446
0500-03-596
PRELIMINARY CSJ: 0912-00-146

ROADWAY	FUNCTIONAL CLASSIFICATION
MAINLANES	URBAN FREEWAY
DIRECT CONNECTORS	DIRECT CONNECTORS
RAMPS	RAMPS
COLLECTOR-DISTRIBUTORS	COLLECTOR-DISTRIBUTORS
FRONTAGE ROADS	URBAN COLLECTOR
SIDE STREETS	URBAN MINOR ARTERIAL/ URBAN COLLECTOR

HORZ SCALE
0 50 100 200

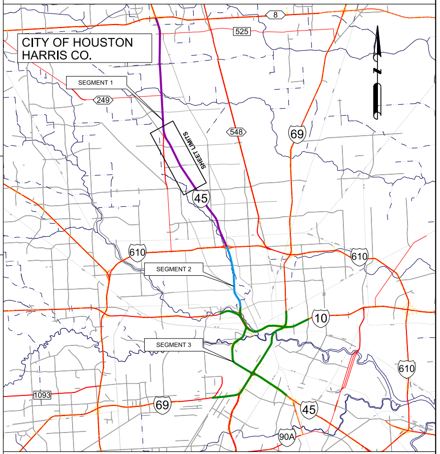
VERT SCALE
0 5 10 20

LEGEND

DESCRIPTION	ROADWAY	BRIDGE	STYLE	LINE WT	COLOR CODE	
PROPOSED CENTERLINE			— · —	2	BLACK	0
PROPOSED I-45 MAINLANES	🟨	🟥	—	2	BLACK	0
PROPOSED I-45 MAX LANES	🟪		—	2	BLACK	0
PROPOSED FRONTAGE ROAD/LOCAL STREET	🟩	🟩	—	2	BLACK	0
PROPOSED MAINLANE RAMP	🟦	🟦	—	2	BLACK	0
PROPOSED MAX LANE RAMP	🟪		—	2	BLACK	0
PROPOSED DIRECT CONNECTOR	🟧		—	2	BLACK	0
PROPOSED METRO CONNECTOR	▨		—	2	BLACK	0
PROPOSED EMBANKMENT			—	2	RED	3
PROPOSED RETAINING WALL			—	2	RED	3
PROPOSED STRIPING			—	2	BLACK	0
PROPOSED SIDEWALK			—	2	ROSY BROWN	237
PROPOSED FEIS ROW			— —	6	BLUE	126
PROPOSED CONTROL OF ACCESS			—	2	RED	3
PROPOSED LANE DIRECTIONAL INDICATOR			➡	1	BLACK	0
PROPOSED NOISE BARRIER			—	4	GREEN	215
PROPOSED AESTHETIC WALL			—	4	PURPLE	95
EXISTING RDWY TO BE REMOVED			▨	2	GRAY	236
EXISTING ROW			— — —	1	BLACK	0
PLANIMETRIC				2	GREEN	2
LIMITS OF FLOODWAY			—	1	LIGHT BLUE	126
EXISTING LANE DIRECTIONAL INDICATOR			⇨	1	BLACK	0
TRAFFIC COUNT YEAR (2040) DHV			0000	1	BLACK	0
AM MAX LANE TRAFFIC COUNT YEAR (2040) DHV			0000 AM	1	BLACK	0
PM MAX LANE TRAFFIC COUNT YEAR (2040) DHV			0000 PM	1	BLACK	0

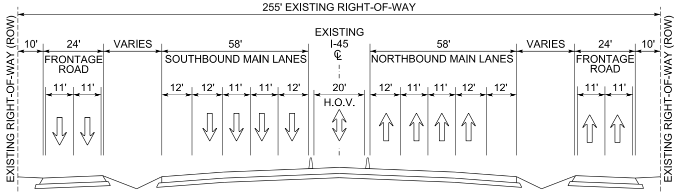
NOT A BIDDING DOCUMENT
______________________ ,P.E.
TBPE NO. ______________
____

LOCATION MAP

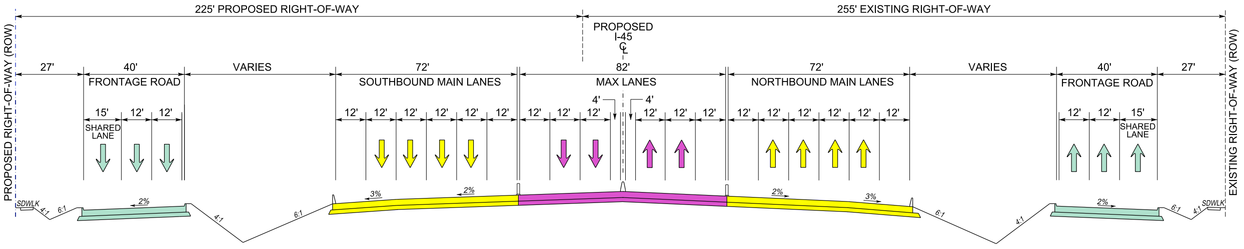

CITY OF HOUSTON
HARRIS CO.
SEGMENT 1
SHEET LIMITS
SEGMENT 2
SEGMENT 3
8
525
249
548
69
45
610
10
1093
90A
N

NOT TO SCALE

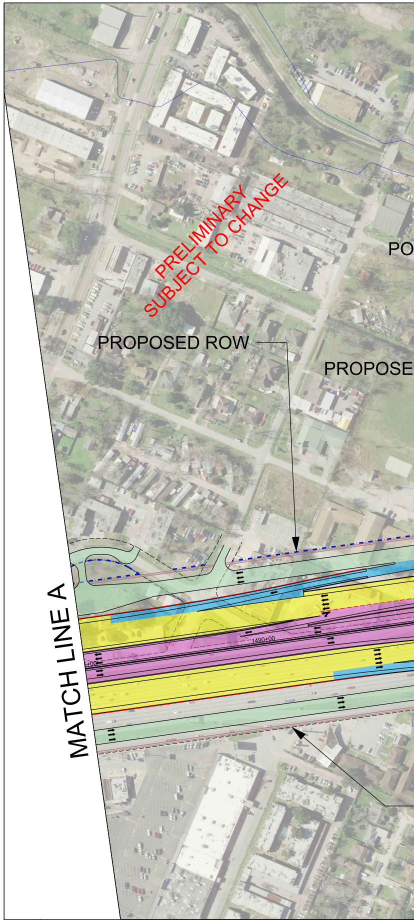
SURVEY DATA: TEXAS SOUTH CENTRAL ZONE #4204 (HARRIS COUNTY)
ADJUSTED TO SURFACE USING COMBINED SCALE FACTOR 1.00013

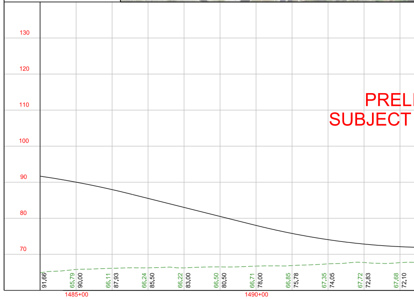

255' EXISTING RIGHT-OF-WAY
EXISTING RIGHT-OF-WAY (ROW)
10'
24'
FRONTAGE ROAD
11'
11'
VARIES
58'
SOUTHBOUND MAIN LANES
12'
12'
11'
11'
12'
EXISTING I-45 ℄
20'
H.O.V.
58'
NORTHBOUND MAIN LANES
12'
11'
11'
12'
12'
VARIES
24'
FRONTAGE ROAD
11'
11'
10'
EXISTING RIGHT-OF-WAY (ROW)

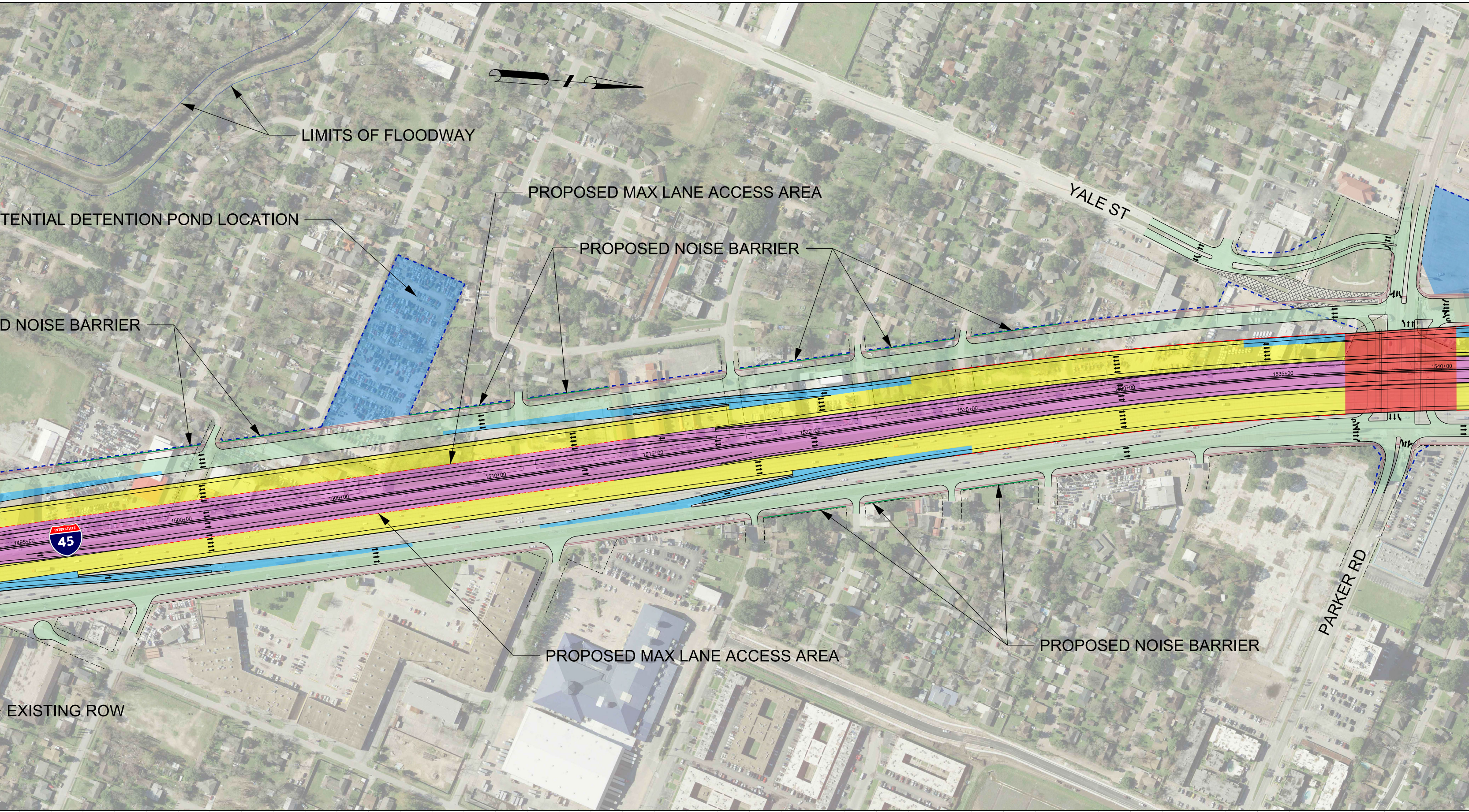
EXISTING TYPICAL SECTION
TIDWELL ROAD TO SHEPHERD DRIVE

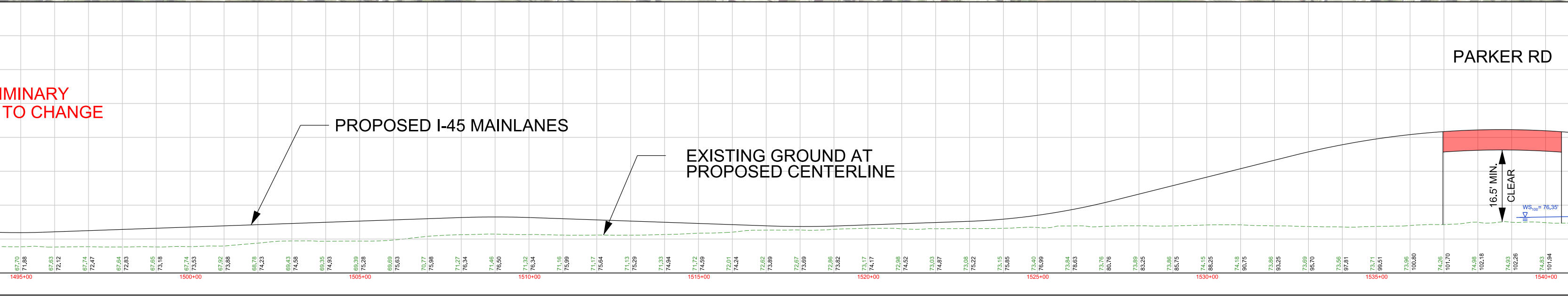

225' PROPOSED RIGHT-OF-WAY
255' EXISTING RIGHT-OF-WAY
PROPOSED RIGHT-OF-WAY (ROW)
27'
40'
FRONTAGE ROAD
15'
12'
12'
SHARED LANE
VARIES
72'
SOUTHBOUND MAIN LANES
12'
12'
12'
12'
12'
12'
PROPOSED I-45 ℄
82'
MAX LANES
12'
12'
12'
4'
4'
12'
12'
12'
72'
NORTHBOUND MAIN LANES
12'
12'
12'
12'
12'
12'
VARIES
40'
FRONTAGE ROAD
12'
12'
15'
SHARED LANE
27'
EXISTING RIGHT-OF-WAY (ROW)
SDWLK
4:1
6:1
2%
4:1
6:1
3%
2%
2%
3%
6:1
4:1
2%
6:1
4:1
SDWLK

PROPOSED TYPICAL SECTION
TIDWELL ROAD TO SHEPHERD DRIVE

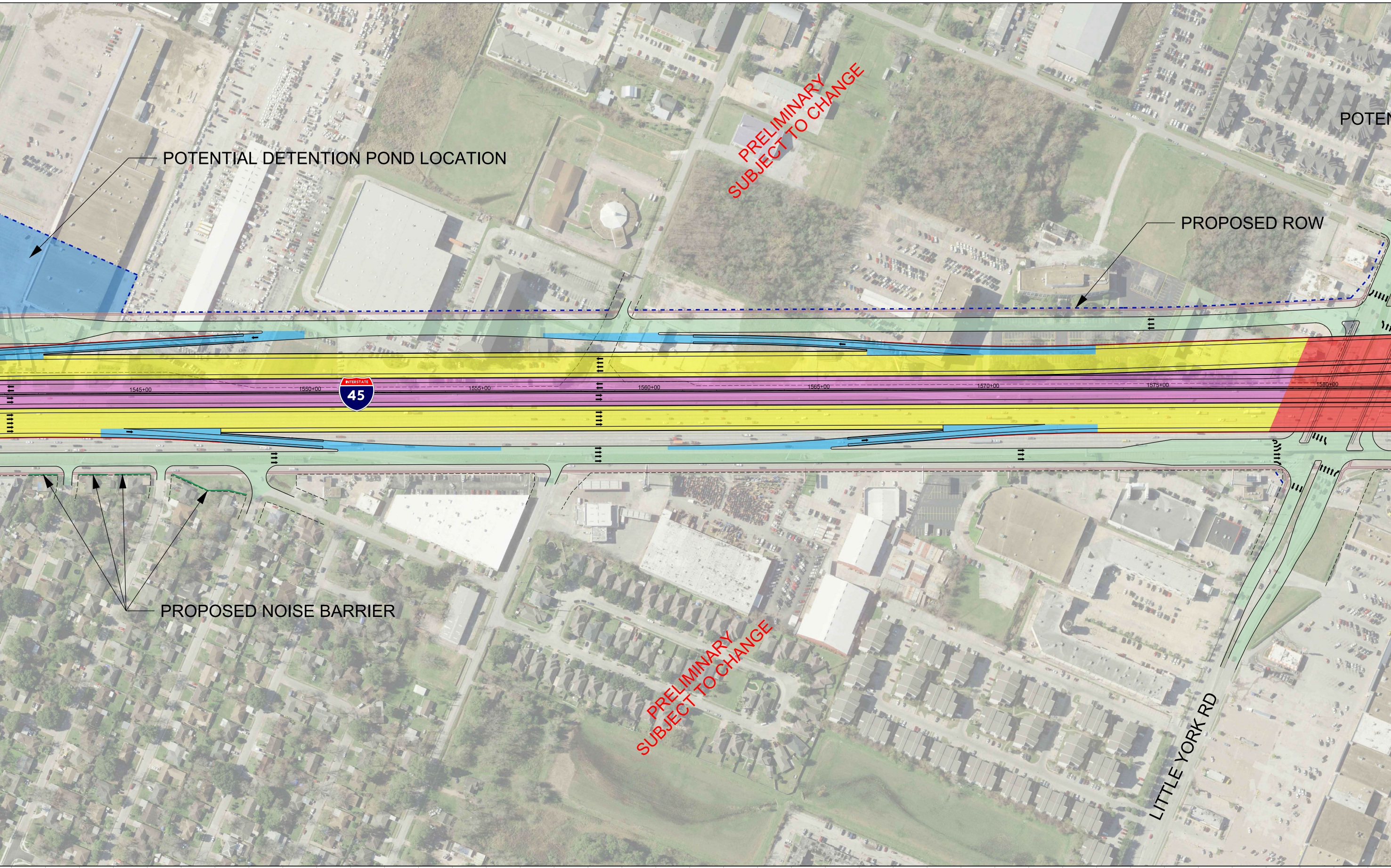

PRELIMINARY
SUBJECT TO CHANGE
PO
PROPOSED ROW
PROPOSE
MATCH LINE A
1490+00

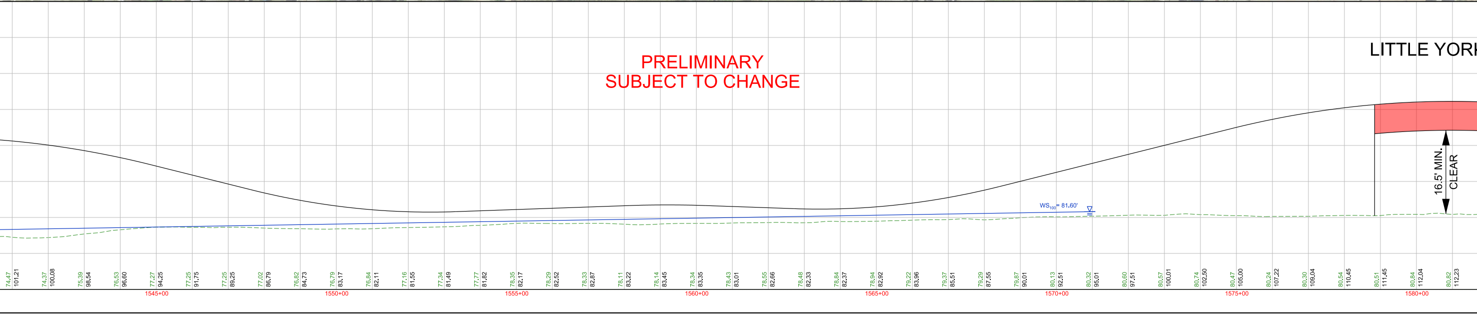


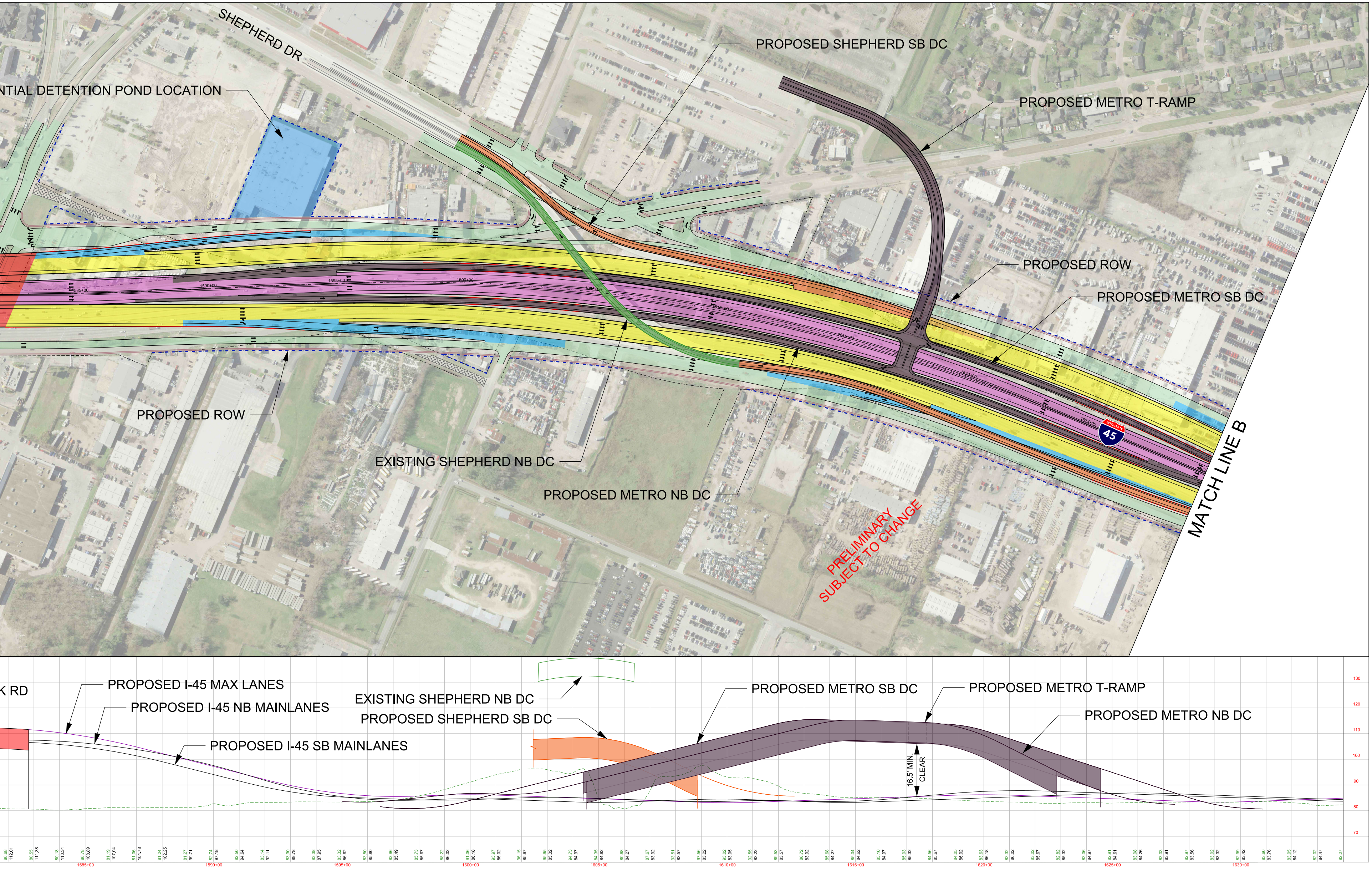

LIMITS OF FLOODWAY
TENTIAL DETENTION POND LOCATION
PROPOSED MAX LANE ACCESS AREA
PROPOSED NOISE BARRIER
D NOISE BARRIER
YALE ST
45
1495+00
1500+00
1505+00
1510+00
1515+00
1520+00
1525+00
1530+00
1535+00
1540+00
PROPOSED MAX LANE ACCESS AREA
PROPOSED NOISE BARRIER
PARKER RD
EXISTING ROW


PARKER RD
PROPOSED I-45 MAINLANES
EXISTING GROUND AT PROPOSED CENTERLINE
16.5' MIN. CLEAR
WS100= 76.35'
67.70 71.88
67.63 72.12
67.74 72.47
67.64 72.83
67.65 73.18
67.74 73.53
67.92 73.88
68.78 74.23
69.43 74.58
69.35 74.93
69.39 75.28
69.69 75.63
70.77 75.98
71.27 76.34
71.46 76.50
71.32 76.34
71.16 75.99
71.17 75.64
71.13 75.29
71.33 74.94
71.72 74.59
72.01 74.24
72.62 73.89
72.67 73.69
72.86 73.82
73.17 74.17
72.98 74.52
73.03 74.87
73.08 75.22
73.15 75.85
73.40 76.99
73.84 78.63
73.76 80.76
73.89 83.25
73.86 85.75
74.15 88.25
74.18 90.75
73.86 93.25
73.69 95.70
73.56 97.81
73.71 99.51
73.96 100.80
74.26 101.70
74.98 102.18
74.93 102.26
74.83 101.94
1495+00
1500+00
1505+00
1510+00
1515+00
1520+00
1525+00
1530+00
1535+00
1540+00

IMINARY
TO CHANGE


POTENTIAL DETENTION POND LOCATION
PRELIMINARY SUBJECT TO CHANGE
POTEN
PROPOSED ROW
INTERSTATE
45
1545+00
1550+00
1555+00
1560+00
1565+00
1570+00
1575+00
1580+00
PROPOSED NOISE BARRIER
PRELIMINARY SUBJECT TO CHANGE
LITTLE YORK RD


PRELIMINARY
SUBJECT TO CHANGE
LITTLE YORI
16.5' MIN. CLEAR
WS100 = 81.60'
74.47 101.21
74.37 100.08
75.39 98.54
76.53 96.60
77.27 94.25
77.25 91.75
77.25 89.25
77.02 86.79
76.82 84.73
76.79 83.17
76.84 82.11
77.16 81.55
77.34 81.49
77.77 81.82
78.35 82.17
78.29 82.52
78.33 82.87
78.11 83.22
78.14 83.45
78.34 83.35
78.43 83.01
78.55 82.66
78.48 82.33
78.84 82.37
78.94 82.92
79.22 83.96
79.37 85.51
79.29 87.55
79.87 90.01
80.13 92.51
80.32 95.01
80.60 97.51
80.57 100.01
80.74 102.50
80.47 105.00
80.24 107.22
80.30 109.04
80.54 110.45
80.51 111.45
80.84 112.04
80.82 112.23
1545+00
1550+00
1555+00
1560+00
1565+00
1570+00
1575+00
1580+00


SHEPHERD DR
NTIAL DETENTION POND LOCATION
PROPOSED SHEPHERD SB DC
PROPOSED METRO T-RAMP
PROPOSED ROW
PROPOSED METRO SB DC
PROPOSED ROW
EXISTING SHEPHERD NB DC
PROPOSED METRO NB DC
45
MATCH LINE B
PRELIMINARY
SUBJECT TO CHANGE
1585+00
1590+00
1595+00
1600+00
1605+00
1610+00
1615+00
1620+00
1625+00
K RD
PROPOSED I-45 MAX LANES
PROPOSED I-45 NB MAINLANES
PROPOSED I-45 SB MAINLANES
EXISTING SHEPHERD NB DC
PROPOSED SHEPHERD SB DC
PROPOSED METRO SB DC
PROPOSED METRO T-RAMP
PROPOSED METRO NB DC
16.5' MIN. CLEAR
130
120
110
100
90
80
70
1585+00
1590+00
1595+00
1600+00
1605+00
1610+00
1615+00
1620+00
1625+00
1630+00

HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP FEIS SCHEMATIC - SEGMENT 1 - I-45

DATE: $DATE$ TIME: $TIME$ SCALE: $SCALE$ PEN TABLE: PEN

PRELIMINARY
SUBJECT TO CHANGE

FILE LOCATION: DGN

ROADWAY: I-45
COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8

2
4

PREPARED BY: $USER$