HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 1 - I-45

PRELIMINARY
SUBJECT TO CHANGE

PUBLIC HEARING LAYOUT

NHHP
I-45 SEGMENT 1

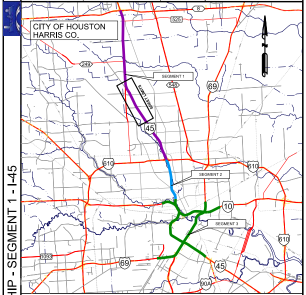
COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8
DATE: 4/18/2017
APPROVED:

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

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

HORZ SCALE
0 50 100 200

VERT SCALE
0 5 10 20



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

LOCATION MAP : N.T.S.

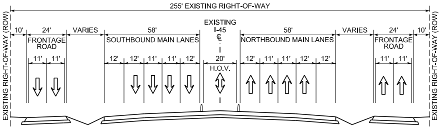
SURVEY DATA: TEXAS SOUTH CENTRAL ZONE #4204 (HARRIS COUNTY)
ADJUSTED TO SURFACE USING COMBINED SCALE FACTOR 1.00013

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 DEIS ROW			— - —	6	BLACK	0
PROPOSED FEIS ROW			— - —	6	BLUE	126
PROPOSED CONTROL OF ACCESS			—‖—	2	RED	3
PROPOSED LANE DIRECTIONAL INDICATOR			➡	1	BLACK	0
RECOMMENDED NOISE ABATEMENT WALL			—	2	PURPLE	37
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

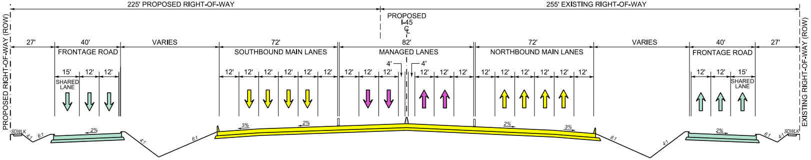
ROADWAY: I-45
COUNTY: HARRIS
LIMITS FROM: I-610
LIMITS TO: BELTWAY 8

NOT A BIDDING DOCUMENT
________________ P.E.
TBPE NO. ________



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)

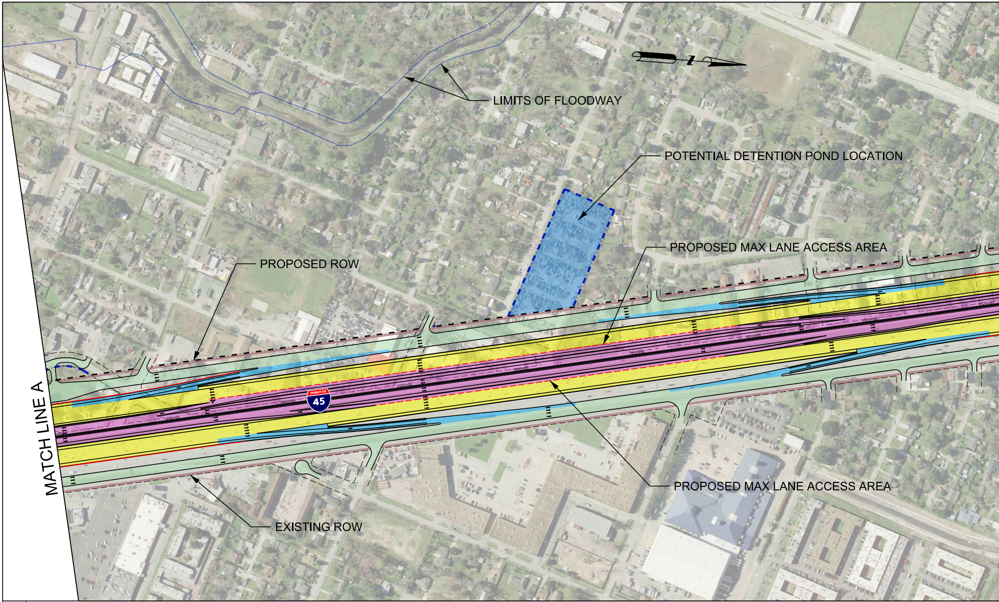
EXISTING TYPICAL SECTION
AIRLINE DRIVE TO SHEPHERD DRIVE



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'
MANAGED 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
AIRLINE DRIVE TO SHEPHERD DRIVE

PRELIMINARY SUBJECT TO CHANGE


MATCH LINE A
45
1490+00
1495+00
1500+00
1505+00
1510+00
1515+00
1520+00
1525+00

LIMITS OF FLOODWAY

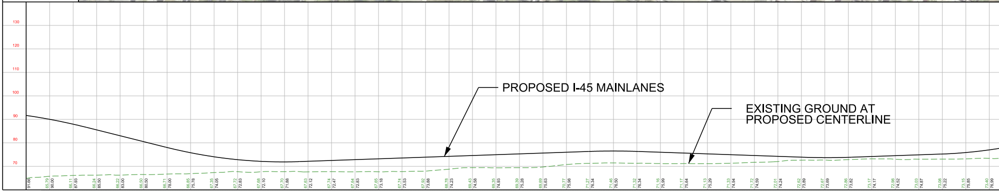
POTENTIAL DETENTION POND LOCATION

PROPOSED MAX LANE ACCESS AREA

PROPOSED ROW

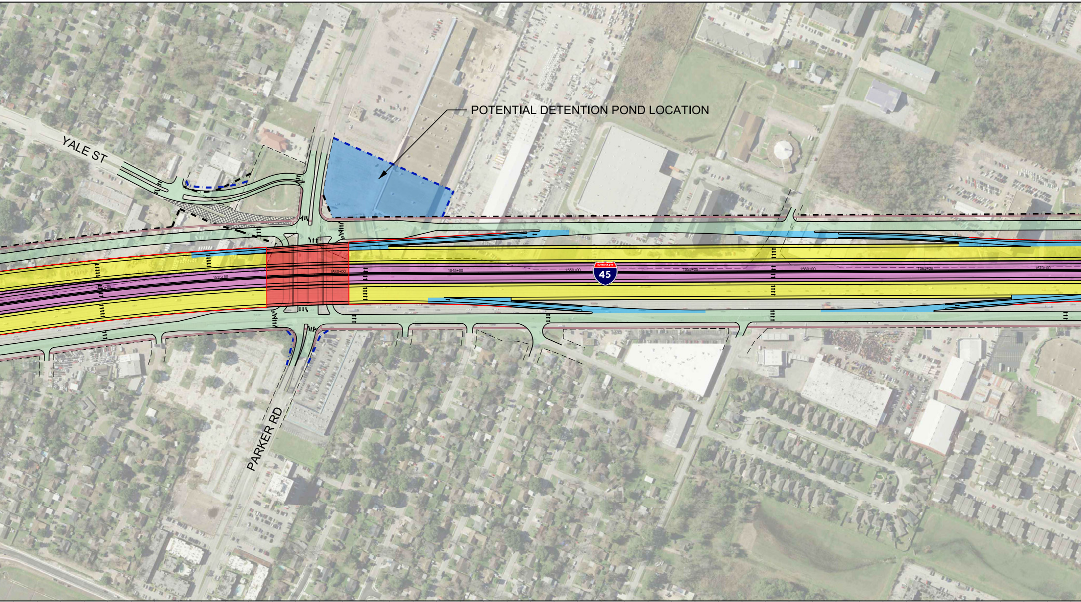
PROPOSED MAX LANE ACCESS AREA

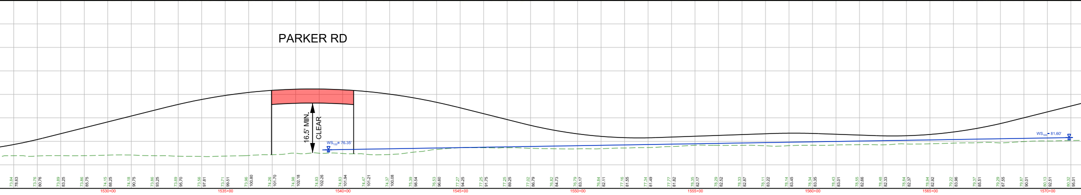
EXISTING ROW

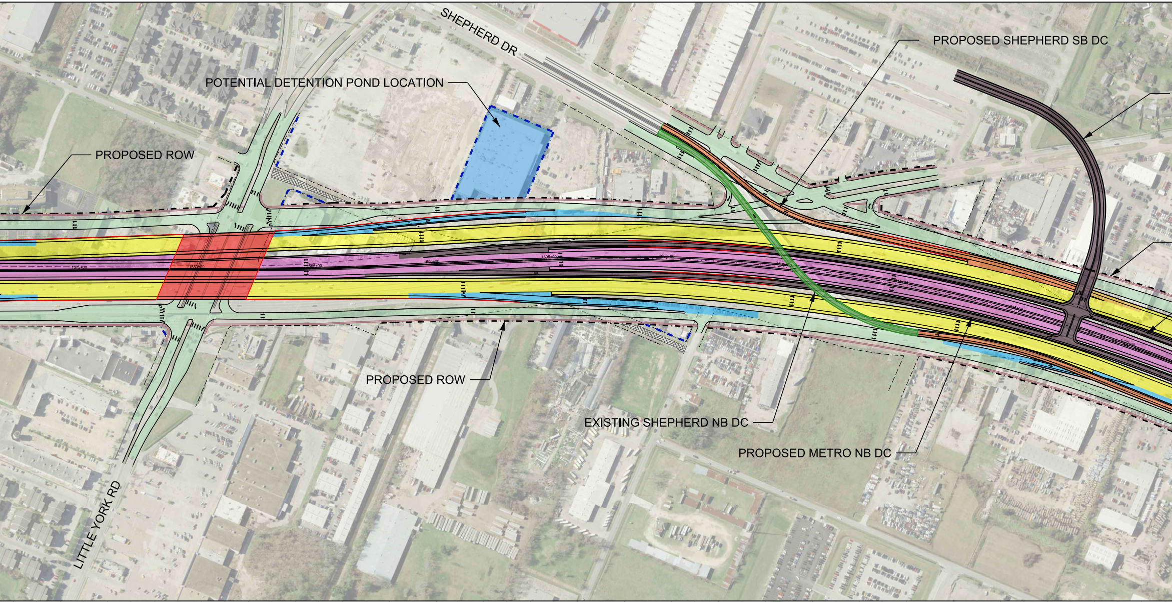


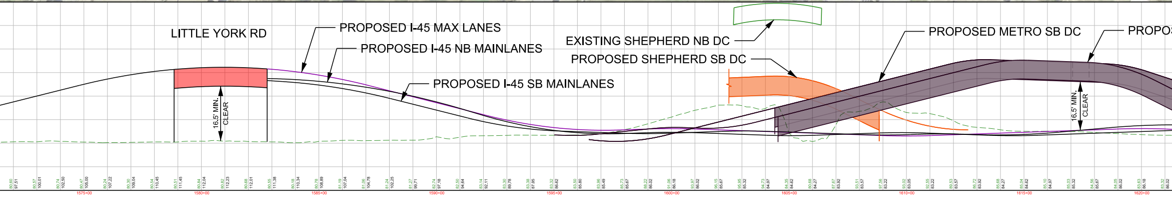
PROPOSED I-45 MAINLANES

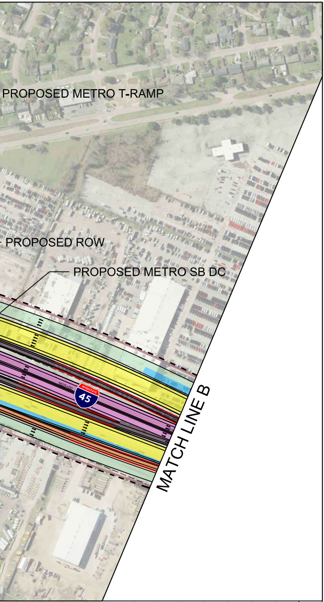
EXISTING GROUND AT PROPOSED CENTERLINE

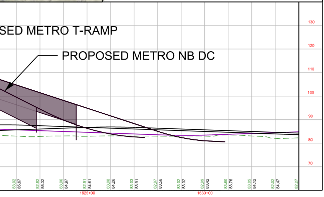

POTENTIAL DETENTION POND LOCATION
YALE ST
PARKER RD
INTERSTATE
45
1530+00
1535+00
1540+00
1545+00
1550+00
1555+00
1560+00
1565+00
1570+00


PARKER RD
16.5' MIN. CLEAR
WS100 = 76.35'
WS100 = 81.60'
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
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
78.84 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
1530+00
1535+00
1540+00
1545+00
1550+00
1555+00
1560+00
1565+00
1570+00


SHEPHERD DR
PROPOSED SHEPHERD SB DC
POTENTIAL DETENTION POND LOCATION
PROPOSED ROW
PROPOSED ROW
EXISTING SHEPHERD NB DC
PROPOSED METRO NB DC
LITTLE YORK RD


LITTLE YORK 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
PROPOS
16.5' MIN. CLEAR
16.5' MIN. CLEAR
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
80.68 112.01
80.55 111.38
80.18 110.34
80.78 108.89
81.19 107.04
81.06 104.78
81.24 102.25
81.27 99.71
82.74 97.18
82.50 94.64
83.14 92.11
83.30 89.78
83.38 87.95
83.32 86.62
83.50 85.80
83.96 85.49
85.73 85.67
88.22 86.02
91.06 86.18
93.97 86.02
96.15 85.67
95.95 85.32
94.73 84.97
84.35 84.62
80.68 84.27
87.67 83.92
93.51 83.57
97.56 83.22
93.02 83.05
92.55 83.22
89.53 83.57
86.72 83.92
85.68 84.27
85.04 84.62
85.10 84.97
85.03 85.32
84.56 85.67
84.05 86.02
83.63 86.18
83.32 86.02
1575+00
1580+00
1585+00
1590+00
1595+00
1600+00
1605+00
1610+00
1615+00
1620+00


PROPOSED METRO T-RAMP
PROPOSED ROW
PROPOSED METRO SB DC
1625+00
45
MATCH LINE B


SED METRO T-RAMP
PROPOSED METRO NB DC
130
120
110
100
90
80
70
83.02
85.67
82.82
85.32
83.06
84.97
82.91
84.61
83.08
84.26
83.03
83.91
82.97
83.56
83.02
83.32
82.99
83.42
83.60
83.76
83.05
84.12
82.02
84.47
82.27
1625+00
1630+00

HOUSTON DISTRICT
PROJECT DEVELOPMENT

NHHIP - SEGMENT 1 - I-45

PRELIMINARY
SUBJECT TO CHANGE

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