HOUSTON DISTRICT
PROJECT DEVELOPMENT

SCHEMATIC LAYOUT
I-45

COUNTY: GALVESTON
LIMITS FROM: S. OF FM 1764
LIMITS TO: N. OF FM 519
CSJ: 0500-04-103
DATE: 08/15/2017
APPROVED: _/_/_

NOT A BIDDING DOCUMENT
P.E.
TBPE NO.

LEGEND

DESCRIPTION	WEIGHT	COLOR CODE
PROPOSED MAIN LANES	2	BLACK -0
PROPOSED FRONTAGE ROADS	5	BLUE -1
PROPOSED RAMPS	2	BLUE -1
PROPOSED DIRECT CONNECTOR	2	ORANGE -6
PROPOSED EMBANKMENT	2	RED -3
PROPOSED RETAINING WALL	6	RED -3
PROPOSED BRIDGE BENTS	2	RED -3
PROPOSED NOISE WALL	5	MAGENTA -37
PROPOSED SIDEWALKS	2	MAGENTA -200
PROPOSED STRIPING	1	ORANGE -6
PROPOSED LANE INDICATOR	1	BLACK -0
PROPOSED RIGHT-OF-WAY	5	BLACK -0
CONTROL OF ACCESS	5	RED -3
PLANIMETRIC	1	GREEN -2
EXISTING RIGHT-OF-WAY	1	BLACK -0
EXISTING ROADWAY	2	GREEN -2
EXISTING ROADWAY TO BE REMOVED	1	BLACK -0
EXISTING LANE INDICATOR	1	BLACK -0
TRAFFIC DATA DHV IN 2015/2020/2040 XXXX/XXXX/XXXX	1	BLACK -0

COLORFILL LEGEND

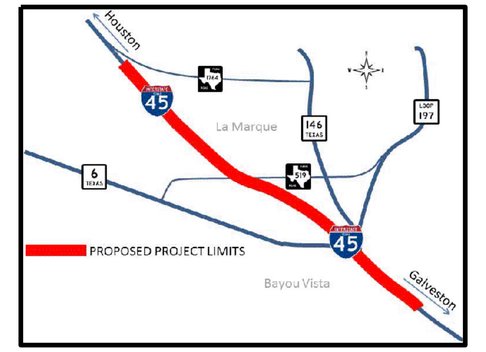
MAIN LANES
BRIDGE
FRONTAGE RD./CROSS ST.
RAMPS

SCALE

0 100 200 300 400

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
MAIN LANE DESIGN CRITERIA: FREEWAY
DESIGN SPEED: 70 MPH
RAMP DESIGN SPEED: 45 MPH
FRONTAGE ROAD DESIGN CRITERIA: URBAN COLLECTOR
FRONTAGE ROAD DESIGN SPEED: 45 MPH (30 MPH MINIMUM)



VICINITY MAP
N.T.S.

I-45 : S. FM 1764 TO N. FM 519

PRELIMINARY
SUBJECT TO CHANGE

CURVE DATA SHEET 2

I-45 MAINLANE CURVE DATA

PI STATION = 1600+42.22
DELTA = 16° 09' 51.65" (LT)
DEGREE OF CURVE = 1° 29' 59.60"
TANGENT = 328.00
LENGTH = 655.28
RADIUS = 5,730.00
PC STATION = 1473+16.24
PT STATION = 1479+71.52
SUPERELEVATION = 3.4%

NB RAMP 3

PI STATION = 53+70.05; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 52+00.37; PT STATION = 55+39.66; NO SUPERELEVATION REQUIRED

PI STATION = 57+90.33; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 56+20.65; PT STATION = 59+59.94; NO SUPERELEVATION REQUIRED

NB RAMP 5

PI STATION = 93+70.05; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 92+00.37; PT STATION = 95+39.66; NO SUPERELEVATION REQUIRED

PI STATION = 97+90.33; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 96+20.65; PT STATION = 99+59.94; NO SUPERELEVATION REQUIRED

SB RAMP 3

PI STATION = 63+70.05; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 62+00.37; PT STATION = 65+39.66; NO SUPERELEVATION REQUIRED

PI STATION = 67+90.33; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 66+20.65; PT STATION = 69+59.94; NO SUPERELEVATION REQUIRED

SB RAMP 5

PI STATION = 103+70.05; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 102+00.37; PT STATION = 105+39.66; NO SUPERELEVATION REQUIRED

PI STATION = 107+90.33; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 106+20.65; PT STATION = 109+59.94; NO SUPERELEVATION REQUIRED

NB RAMP 4

PI STATION = 71+69.68; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 70+00.00; PT STATION = 73+39.29; NO SUPERELEVATION REQUIRED

PI STATION = 75+89.97; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 74+20.28; PT STATION = 77+59.58; NO SUPERELEVATION REQUIRED

NB RAMP 6

PI STATION = 111+69.68; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 110+00.00; PT STATION = 113+39.29; NO SUPERELEVATION REQUIRED

PI STATION = 115+89.97; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 114+20.28; PT STATION = 117+59.58; NO SUPERELEVATION REQUIRED

SB RAMP 4

PI STATION = 80+78.56; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 1° 54' 35.49"; TANGENT = 78.56; LENGTH = 157.08; RADIUS = 3,000.00; PC STATION = 80+00.00; PT STATION = 81+57.08; SUPERELEVATION = 3.0%

PI STATION = 84+98.88; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 83+29.20; PT STATION = 86+68.49; NO SUPERELEVATION REQUIRED

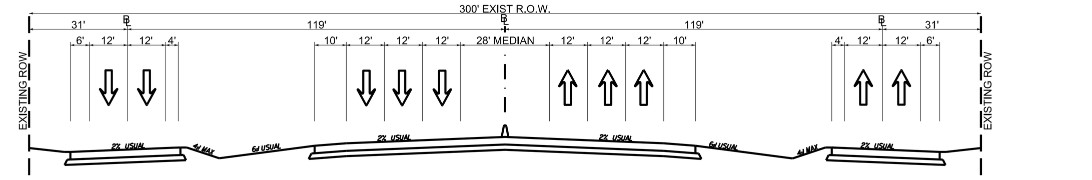
SB RAMP 6

PI STATION = 121+69.68; DELTA = 3° 00' 00.00" (LT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 120+00.00; PT STATION = 123+39.29; NO SUPERELEVATION REQUIRED

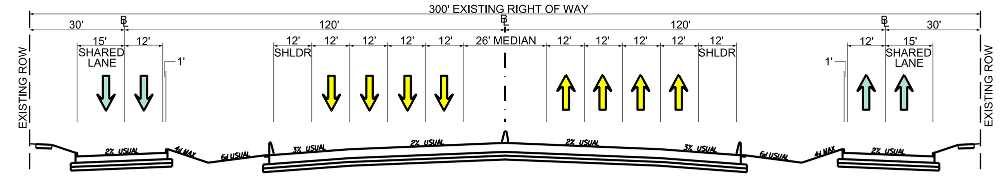
PI STATION = 125+89.97; DELTA = 3° 00' 00.00" (RT); DEGREE OF CURVE = 0° 53' 03.10"; TANGENT = 169.68; LENGTH = 339.29; RADIUS = 6,480.00; PC STATION = 124+20.28; PT STATION = 127+59.58; NO SUPERELEVATION REQUIRED

ROADWAY: I-45 GULF
COUNTY: GALVESTON
LIMITS FROM: S. OF FM 1764
LIMITS TO: N. OF FM 519

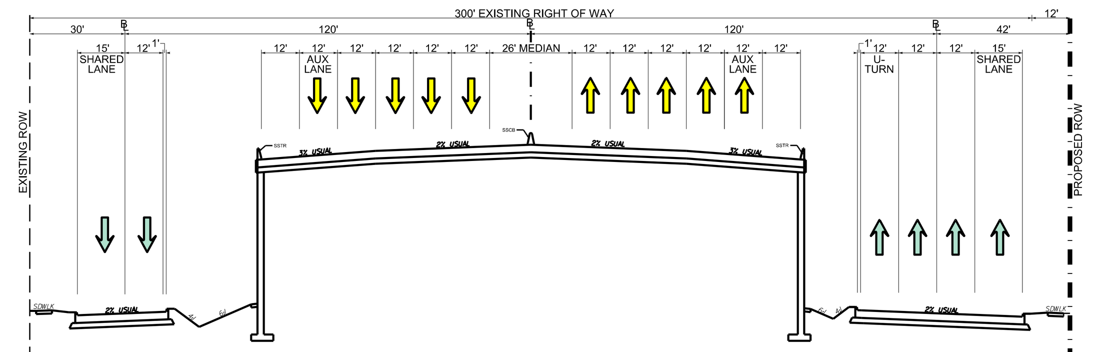
2 / 2



EXISTING TYPICAL SECTION
STA 1480+00 TO STA 1596+00



PROPOSED TYPICAL SECTION
STA. 1480+00 TO STA. 1596+00



PROPOSED TYPICAL SECTION B-B