I-45 GULF FREEWAY

SCHEMATIC LAYOUT

I-45

COUNTY: GALVESTON COUNTY
LIMITS FROM: FM 1764
LIMITS TO: TIKI DRIVE
CSJ: 0500-04-103
DATE: 06/13/2017
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	1	RED-3
PROPOSED RETAINING WALL	5	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	2	RED-3
PLANIMETRIC	1	GREEN-2
EXISTING RIGHT-OF-WAY	2	BLACK-0
EXISTING ROADWAY	1	GREEN-2
EXISTING ROADWAY TO BE REMOVED	1	BLACK-0
EXISTING LANE INDICATOR	1	BLACK-0
TRAFFIC COUNT YEAR ( ) DHV	1	BLACK-0

COLORFILL LEGEND

MAIN LANES
FRONTAGE ROAD/RAMPS
DIRECT CONNECTOR
BRIDGE

SCALE

0 100 200 300 400

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: RURAL FREEWAY
MAIN LANE DESIGN CRITERIA: FREEWAY
MAIN LANE DESIGN SPEED: 70 MPH
FRONTAGE ROAD DESIGN CRITERIA: RURAL COLLECTOR
FRONTAGE ROAD DESIGN SPEED: 50 MPH
RAMP DESIGN SPEED: 45 MPH
CROSS STREET DESIGN SPEED: 35 MIN, 45 USUAL

I-45 MAINLANE CURVE DATA

PI STATION = 841+61.00
DELTA = 2° 00' 00.03" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 246.12
LENGTH = 492.18
RADIUS = 14,100.00
PC STATION = 839+14.89
PT STATION = 844+07.07
NO SUPERELEVATION REQUIRED

PI STATION = 854+49.17
DELTA = 2° 00' 00.00" (LT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 246.12
LENGTH = 492.18
RADIUS = 14,100.00
PC STATION = 852+03.05
PT STATION = 856+95.23
NO SUPERELEVATION REQUIRED

PI STATION = 868+59.30
DELTA = 1° 29' 59.96" (LT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 184.58
LENGTH = 369.13
RADIUS = 14,100.00
PC STATION = 866+74.72
PT STATION = 870+43.86
NO SUPERELEVATION REQUIRED

PI STATION = 890+46.32
DELTA = 1° 29' 59.88" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 184.57
LENGTH = 369.13
RADIUS = 14,100.00
PC STATION = 888+61.74
PT STATION = 892+30.87
NO SUPERELEVATION REQUIRED

PI STATION = 904+49.89
DELTA = 1° 30' 00.00" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 184.58
LENGTH = 369.14
RADIUS = 14,100.00
PC STATION = 902+65.31
PT STATION = 906+34.45
NO SUPERELEVATION REQUIRED

PI STATION = 919+68.43
DELTA = 1° 29' 59.87" (LT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 184.57
LENGTH = 369.13
RADIUS = 14,100.00
PC STATION = 917+83.86
PT STATION = 921+52.99
NO SUPERELEVATION REQUIRED

NB RAMP 19

PI STATION = 200+91.91
DELTA = 1° 09' 01.44" (RT)
DEGREE OF CURVE = 0° 24' 07.47"
TANGENT = 143.06
LENGTH = 286.12
RADIUS = 14,250.00
PC STATION = 199+48.85
PT STATION = 202+34.97
NO SUPERELEVATION REQUIRED

PI STATION = 204+69.78
DELTA = 4° 09' 01.98" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 234.81
LENGTH = 469.42
RADIUS = 6,480.00
PC STATION = 202+34.97
PT STATION = 207+04.38
NO SUPERELEVATION REQUIRED

PI STATION = 213+22.07
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 = 211+52.38
PT STATION = 214+91.67
NO SUPERELEVATION REQUIRED

NB RAMP 23

PI STATION = 231+69.68
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 = 230+00.00
PT STATION = 233+39.29
NO SUPERELEVATION REQUIRED

PI STATION = 238+41.31
DELTA = 1° 29' 40.00" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 84.51
LENGTH = 169.02
RADIUS = 6,480.00
PC STATION = 237+56.80
PT STATION = 239+25.82
NO SUPERELEVATION REQUIRED

PI STATION = 244+83.67
DELTA = 4° 03' 28.11" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 229.56
LENGTH = 458.93
RADIUS = 6,480.00
PC STATION = 242+54.11
PT STATION = 247+13.03
NO SUPERELEVATION REQUIRED

SB RAMP 22

PI STATION = 231+46.51
DELTA = 4° 21' 19.19" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 246.41
LENGTH = 492.58
RADIUS = 6,480.00
PC STATION = 229+00.10
PT STATION = 233+92.68
NO SUPERELEVATION REQUIRED

PI STATION = 237+07.99
DELTA = 0° 59' 46.67" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 56.34
LENGTH = 112.68
RADIUS = 6,480.00
PC STATION = 236+51.65
PT STATION = 237+64.33
NO SUPERELEVATION REQUIRED

PI STATION = 241+38.23
DELTA = 2° 00' 00.00" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 113.11
LENGTH = 226.19
RADIUS = 6,480.00
PC STATION = 240+25.12
PT STATION = 242+51.32
NO SUPERELEVATION REQUIRED

NB RAMP 21

PI STATION = 211+83.21
DELTA = 1° 29' 58.35" (LT)
DEGREE OF CURVE = 0° 24' 33.32"
TANGENT = 183.21
LENGTH = 366.41
RADIUS = 14,000.00
PC STATION = 210+00.00
PT STATION = 213+66.41
NO SUPERELEVATION REQUIRED

PI STATION = 221+59.78
DELTA = 2° 00' 00.00" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 113.11
LENGTH = 226.19
RADIUS = 6,480.00
PC STATION = 210+00.00
PT STATION = 213+66.41
NO SUPERELEVATION REQUIRED

PI STATION = 225+03.90
DELTA = 1° 00' 00.00" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 56.55
LENGTH = 113.10
RADIUS = 6,480.00
PC STATION = 224+47.35
PT STATION = 225+60.44
NO SUPERELEVATION REQUIRED

PI STATION = 233+68.22
DELTA = 2° 29' 59.88" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 141.39
LENGTH = 282.74
RADIUS = 6,480.00
PC STATION = 232+26.83
PT STATION = 235+09.57
NO SUPERELEVATION REQUIRED

SB RAMP 20

PI STATION = 201+04.76
DELTA = 4° 00' 00.00" (RT)
DEGREE OF CURVE = 1° 54' 35.49"
TANGENT = 104.76
LENGTH = 209.44
RADIUS = 3,000.00
PC STATION = 200+00.00
PT STATION = 202+09.44
SUPERELEVATION = 3.0%

PI STATION = 209+36.55
DELTA = 5° 20' 15.87" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 302.06
LENGTH = 603.68
RADIUS = 6,480.00
PC STATION = 206+34.48
PT STATION = 212+38.17
NO SUPERELEVATION REQUIRED

SB RAMP 24

PI STATION = 241+13.11
DELTA = 2° 00' 00.04" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 113.11
LENGTH = 226.20
RADIUS = 6,480.00
PC STATION = 240+00.00
PT STATION = 242+26.20
NO SUPERELEVATION REQUIRED

PI STATION = 250+18.64
DELTA = 3° 30' 00.00" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 197.98
LENGTH = 395.84
RADIUS = 6,480.00
PC STATION = 248+20.65
PT STATION = 252+16.50
NO SUPERELEVATION REQUIRED

SB RAMP 26

PI STATION = 261+13.10
DELTA = 1° 59' 59.20" (LT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 113.10
LENGTH = 226.17
RADIUS = 6,480.00
PC STATION = 260+00.00
PT STATION = 262+26.17
NO SUPERELEVATION REQUIRED

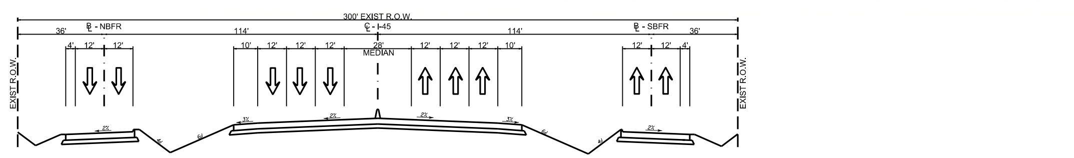
PI STATION = 267+75.87
DELTA = 3° 30' 00.00" (RT)
DEGREE OF CURVE = 0° 53' 03.10"
TANGENT = 197.98
LENGTH = 395.84
RADIUS = 6,480.00
PC STATION = 265+77.89
PT STATION = 269+73.73
NO SUPERELEVATION REQUIRED

PRELIMINARY
SUBJECT TO CHANGE

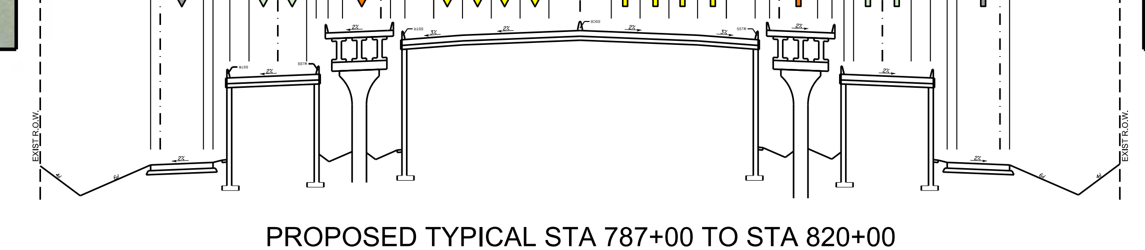
ROADWAY: IH 45 GULF FREEWAY
COUNTY: GALVESTON
LIMITS FROM: FM 1764
LIMITS TO: TIKI DRIVE

MATCHLINE STA 787+00

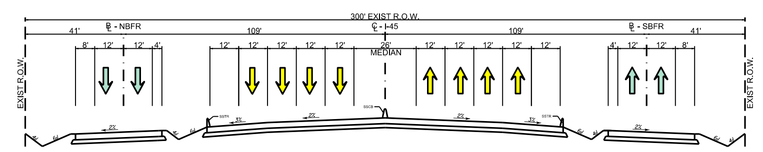
MATCHLINE STA 940+00



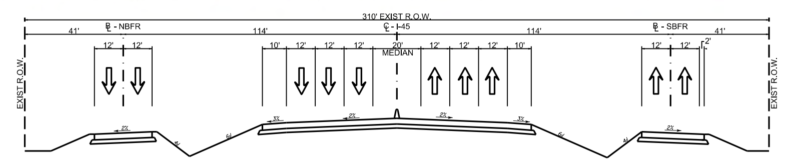
EXISTING TYPICAL STA 787+00 TO STA 915+00



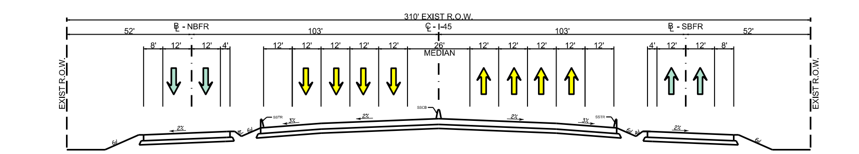
PROPOSED TYPICAL STA 787+00 TO STA 820+00



PROPOSED TYPICAL STA 820+00 TO STA 915+00



EXISTING TYPICAL STA 915+00 TO STA 940+00



PROPOSED TYPICAL STA 915+00 TO STA 940+00