HOUSTON DISTRICT
PROJECT DEVELOPMENT

SH 146 SEGMENT 3

PRELIMINARY
SUBJECT TO CHANGE

SCHEMATIC LAYOUT
SH 146

COUNTY: GALVESTON
LIMITS FROM: SH 96
LIMITS TO: FM 517
CSJ: 0389-06-088
DATE: 09/01/2015
APPROVED: / /

NOT A BIDDING DOCUMENT

______________________,P.E.
TBPE NO. ______________
____

LEGEND

DESCRIPTION	SYMBOLOGY	WEIGHT	COLOR CODE
PROPOSED MAIN LANES	—	2	BLACK -0
PROPOSED TOLL LANES	—	2	PURPLE -60
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	─╫─	2	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 COUNT YEAR ( ) DHV	▭	1	BLACK -0

COLORFILL LEGEND

MAIN LANES	🟨
BRIDGE	🟧
FRONTAGE ROAD	⬜
RAMPS	🟩

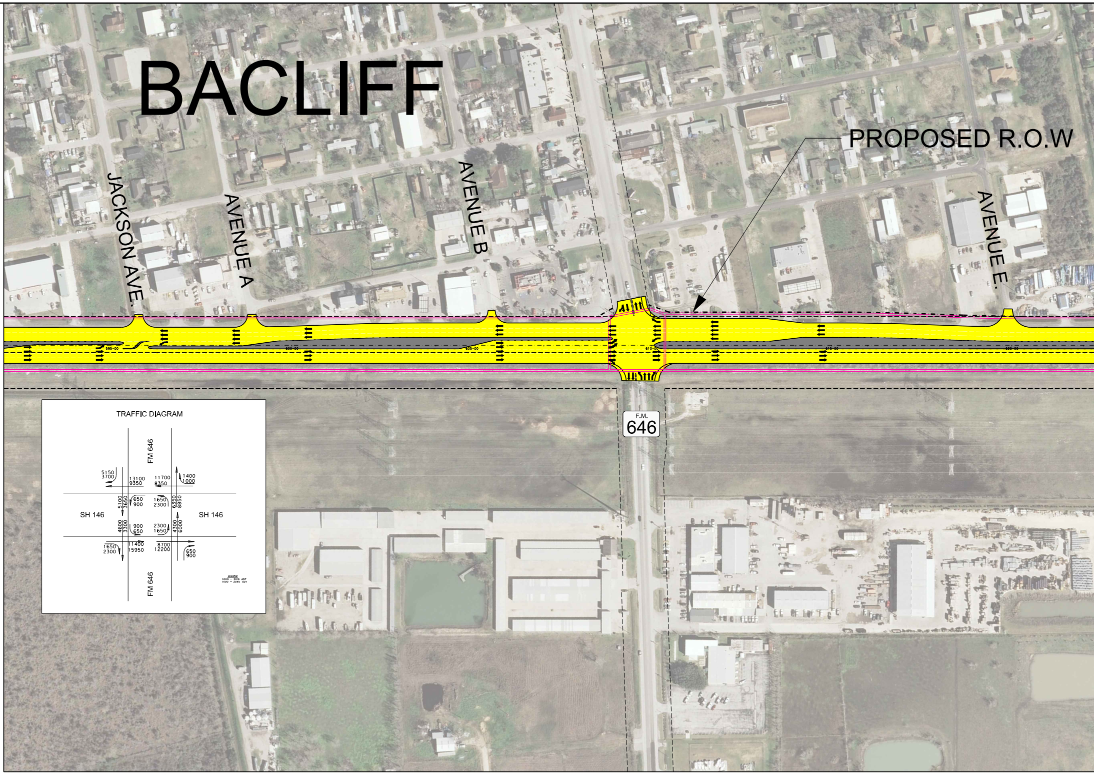
SCALE

0 100 200 300 400

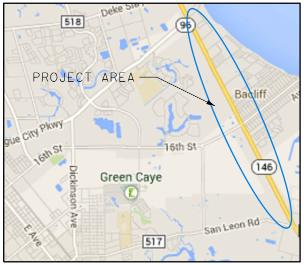
DESIGN CRITERIA

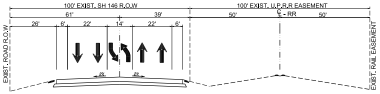
FUNCTIONAL CLASSIFICATION : PRINCIPAL ARTERIAL
MAIN LANE DESIGN CRITERIA-
BEGINNING OF PROJECT TO 518+00 : FREEWAY
518+00 TO END OF PROJECT : URBAN ARTERIAL
MAIN LANE DESIGN SPEED-
BEGIN PROJECT TO STA. 530+00 : 60 MPH
STA. 530+00 TO END OF PROJECT : 45 MPH
RAMP DESIGN SPEED : 45 MPH
FRONTAGE ROAD DESIGN CRITERION : URBAN COLLECTOR
FRONTAGE ROAD DESIGN SPEED : 45 MPH

MATCH LINE STA. 592+00

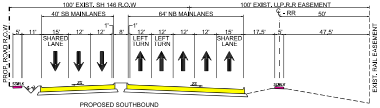

BACLIFF
PROPOSED R.O.W
JACKSON AVE.
AVENUE A
AVENUE B
AVENUE E
595+00
600+00
605+00
610+00
F.M. 646
TRAFFIC DIAGRAM
FM 646
SH 146
SH 146
FM 646
5150 3700
13100 9350
11700 8350
1400 1000
5100 3650
650 900
1650 2300
6350 8850
4600 3300
900 650
2300 1650
4300 6000
1650 2300
11400 15950
8700 12200
650 900
LEGEND
1000 - 2018 ADT
1500 - 2040 ADT

VICINITY MAP

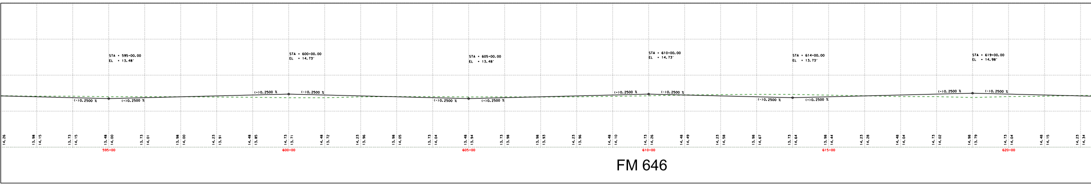

518
Deke Sla
96
PROJECT AREA
Bacliff
gue City Pkwy
16th St
16th St
Green Caye
Dickinson Ave
146
San Leon Rd
E Ave
517


100' EXIST. SH 146 R.O.W
100' EXIST. U.P.R.R EASEMENT
61'
39'
50'
℄ - RR
50'
26'
6'
22'
14'
22'
6'
2%
2%
EXIST. ROAD R.O.W
EXIST. RAIL EASEMENT

EXISTING TYPICAL SECTION


100' EXIST. SH 146 R.O.W
100' EXIST. U.P.R.R EASEMENT
40' SB MAINLANES
64' NB MAINLANES
℄ - RR
50'
1'
5'
11'
15'
12'
12'
8'
12'
12'
12'
12'
15'
17.5'
5'
47.5'
SHARED LANE
LEFT TURN
LEFT TURN
SHARED LANE
2%
2%
SDWLK
SDWLK
PROP. ROAD R.O.W
EXIST. RAIL EASEMENT

PROPOSED SOUTHBOUND
LEFT TURN BAY AT FM 646

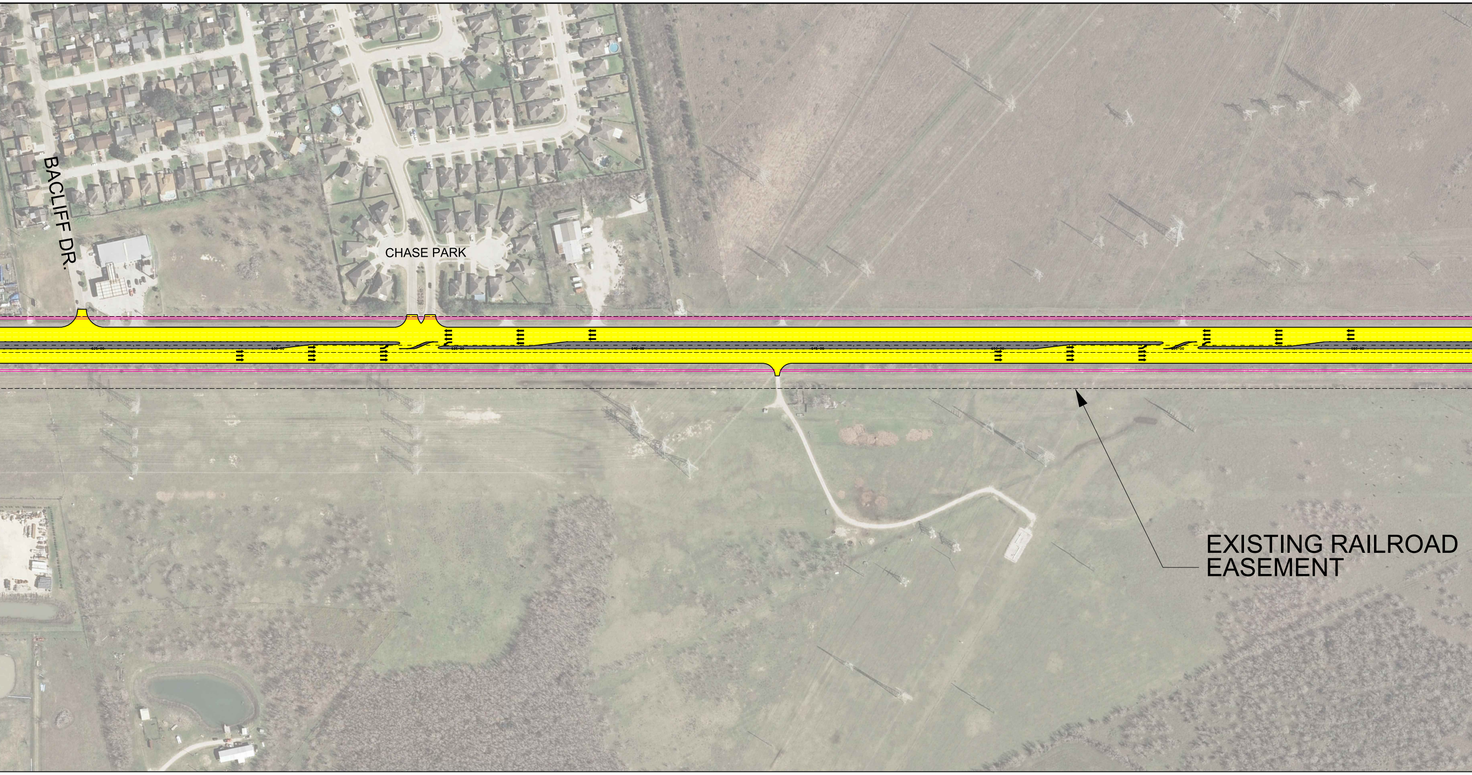

STA = 595+00.00
STA = 600+00.00
STA = 605+00.00
STA = 610+00.00
STA = 614+00.00
STA = 619+00.00
20
10
0
595+00
600+00
605+00
610+00
615+00
620+00

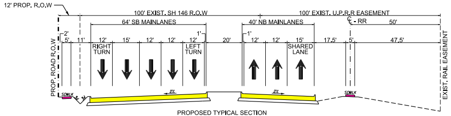
FM 646

ROADWAY: SH 146
COUNTY: GALVESTON
LIMITS FROM: SH 96
LIMITS TO: FM 517

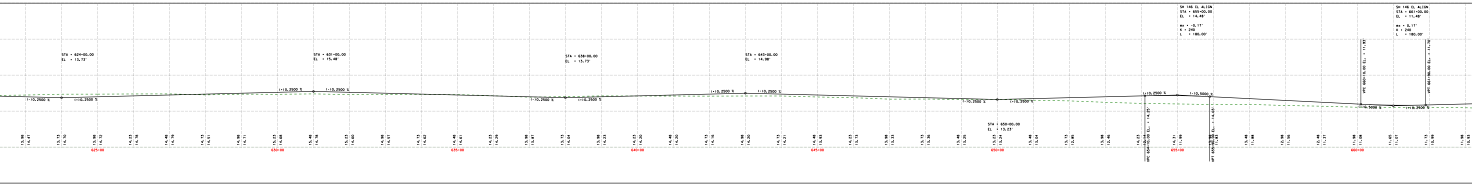
2 / 2

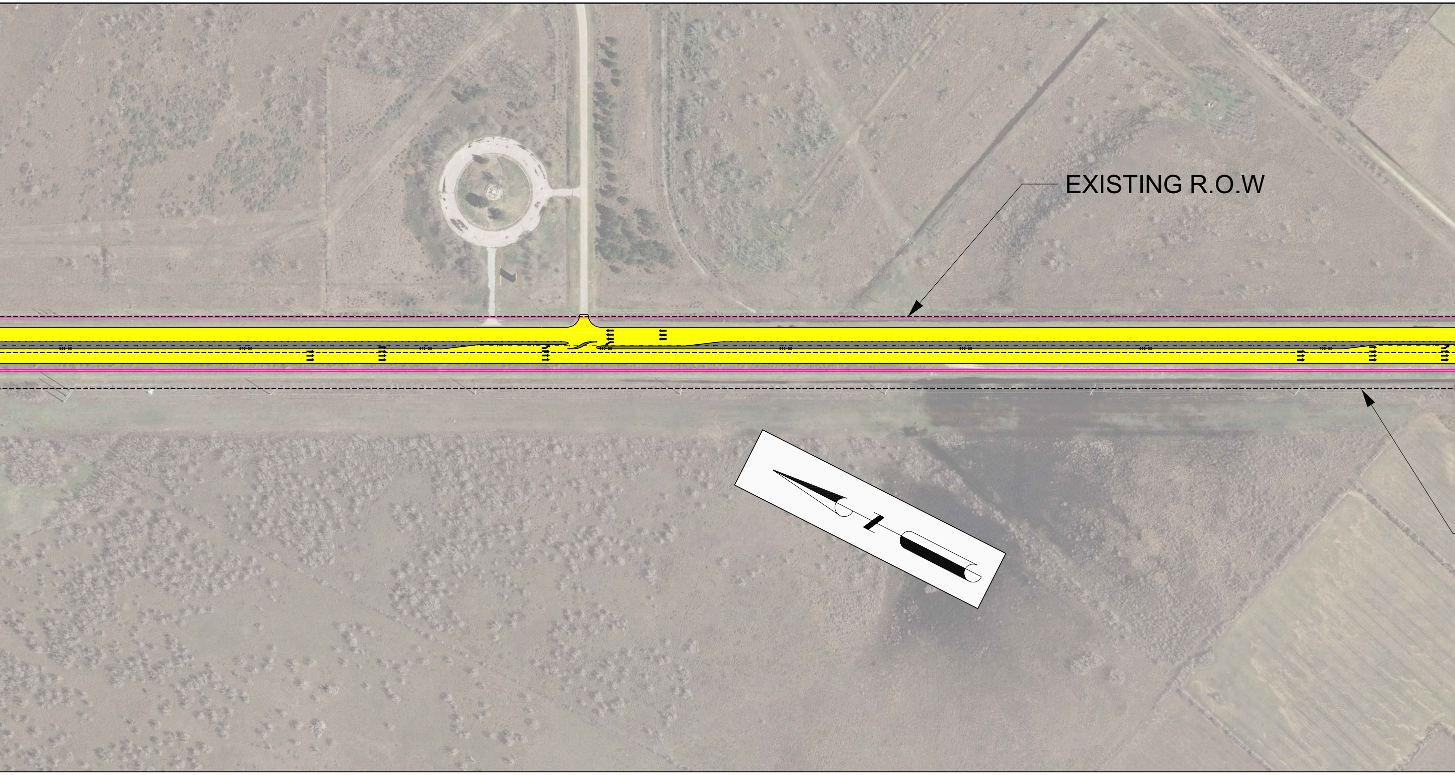
FILE LOCATION: H:/ProjDev/SH146/Final/X plot files
PREPARED BY: (YOUR NAME HERE)

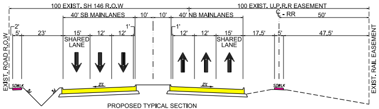

BACLIFF DR.
CHASE PARK
EXISTING RAILROAD EASEMENT


12' PROP. R.O.W
100' EXIST. SH 146 R.O.W
100' EXIST. U.P.R.R EASEMENT
64' SB MAINLANES
40' NB MAINLANES
℄ - RR
50'
2'
5'
11'
12'
15'
12'
12'
12'
1'
20'
1'
12'
12'
15'
17.5'
5'
47.5'
RIGHT TURN
LEFT TURN
SHARED LANE
PROP. ROAD R.O.W
EXIST. RAIL EASEMENT
SDWLK
2%
2%
SDWLK

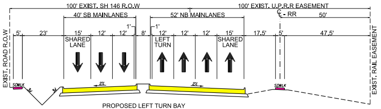
PROPOSED TYPICAL SECTION
STA. 621+00 TO 613+00


STA = 624+00.00
EL = 13.73'
STA = 631+00.00
EL = 15.48'
STA = 638+00.00
EL = 13.73'
STA = 643+00.00
EL = 14.98'
STA = 650+00.00
EL = 13.23'
SH 146 CL ALIGN
STA = 655+00.00
EL = 14.48'
ex = -0.17'
K = 240
L = 180.00'
SH 146 CL ALIGN
STA = 661+00.00
EL = 11.48'
ex = 0.17'
K = 240
L = 180.00'
(-)0.2500 %
(+)0.2500 %
(+)0.2500 %
(-)0.2500 %
(-)0.2500 %
(+)0.2500 %
(+)0.2500 %
(-)0.2500 %
(-)0.2500 %
(+)0.2500 %
(+)0.2500 %
(-)0.5000 %
(-)0.5000 %
(+)0.2500 %
VPC 654+10.00 EL. = 14.25'
VPT 655+90.00 EL. = 14.03'
VPC 660+10.00 EL. = 11.93'
VPT 661+90.00 EL. = 11.70'
13.98 14.47
13.73 14.70
13.98 14.72
14.23 14.78
14.48 14.79
14.73 14.51
14.98 14.71
15.23 14.68
15.48 14.78
15.23 14.60
14.98 14.57
14.73 14.62
14.48 14.61
14.23 14.29
13.98 13.87
13.73 14.04
13.98 14.23
14.23 14.20
14.48 14.20
14.73 14.16
14.98 14.20
14.73 14.21
14.48 13.93
14.23 13.73
13.98 13.33
13.73 13.36
13.48 13.25
13.23 13.24
13.48 13.04
13.73 12.85
13.98 12.46
14.23 12.14
14.31 11.99
13.98 11.83
13.48 11.88
12.98 11.56
12.48 11.37
11.98 11.08
11.65 11.07
11.73 10.99
11.98 10.93
625+00
630+00
635+00
640+00
645+00
650+00
655+00
660+00

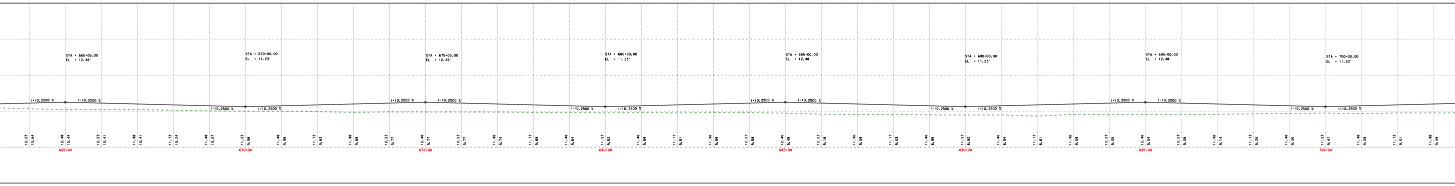

EXISTING R.O.W

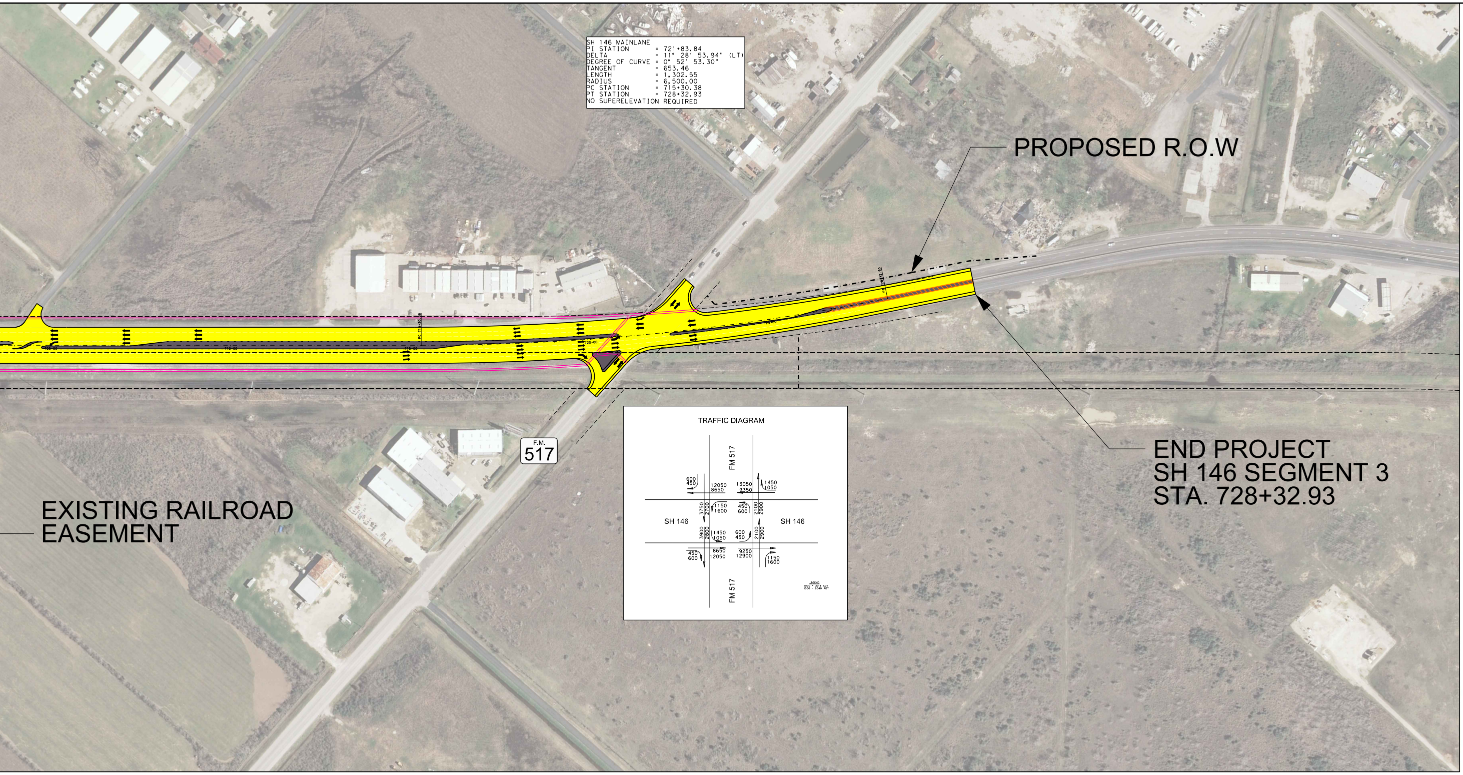

100 EXIST. SH 146 R.O.W
100 EXIST. U.P.R.R EASEMENT
40' SB MAINLANES
10'
10'
40' NB MAINLANES
℄ - RR
50'
2'
5'
23'
15'
12'
12'
1'
1'
12'
12'
15'
17.5'
5'
47.5'
SHARED LANE
SHARED LANE
EXIST. ROAD R.O.W
EXIST. RAIL EASEMENT
SDWLK
2%
2%
SDWLK

PROPOSED TYPICAL SECTION
STA. 615+00 TO 715+00

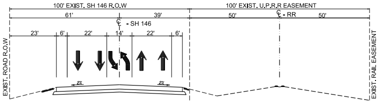

100' EXIST. SH 146 R.O.W
100' EXIST. U.P.R.R EASEMENT
40' SB MAINLANES
52' NB MAINLANES
℄ - RR
50'
5'
23'
15'
12'
12'
1'
8'
1'
12'
12'
12'
15'
17.5'
5'
47.5'
SHARED LANE
LEFT TURN
SHARED LANE
EXIST. ROAD R.O.W
EXIST. RAIL EASEMENT
SDWLK
2%
2%
SDWLK

PROPOSED LEFT TURN BAY
STA. 630+00 TO 720+00

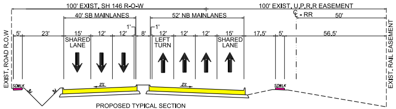



PROPOSED R.O.W
END PROJECT
SH 146 SEGMENT 3
STA. 728+32.93
EXISTING RAILROAD
EASEMENT
F.M.
517
TRAFFIC DIAGRAM
FM 517
SH 146
SH 146
FM 517
600
450
12050
8650
13050
9350
1450
1050
3750
2700
1150
1600
450
600
2100
2900
3900
2800
1450
1050
600
450
2100
2900
450
600
8650
12050
9250
12900
1150
1600
LEGEND
1000 - 2018 ADT
1500 - 2040 ADT

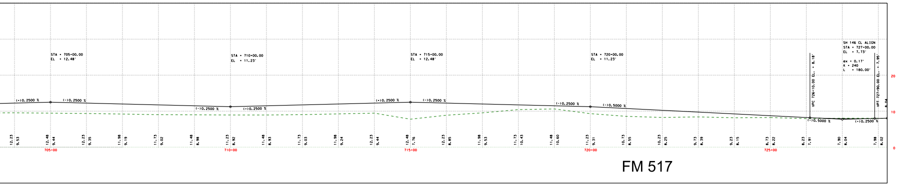
SH 146 MAINLANE
PI STATION = 721+83.84
DELTA = 11° 28′ 53.94" (LT)
DEGREE OF CURVE = 0° 52′ 53.30"
TANGENT = 653.46
LENGTH = 1,302.55
RADIUS = 6,500.00
PC STATION = 715+30.38
PT STATION = 728+32.93
NO SUPERELEVATION REQUIRED


100' EXIST. SH 146 R.O.W
100' EXIST. U.P.R.R EASEMENT
61'
39'
50'
℄ - RR
50'
℄ - SH 146
23'
6'
22'
14'
22'
6'
2%
2%
EXIST. ROAD R.O.W
EXIST. RAIL EASEMENT

EXISTING TYPICAL SECTION


100' EXIST. SH 146 R-O-W
100' EXIST. U.P.R.R EASEMENT
40' SB MAINLANES
52' NB MAINLANES
℄ - RR
50'
1'
1'
5'
23'
15'
12'
12'
8'
12'
12'
12'
15'
17.5'
5'
56.5'
SHARED LANE
LEFT TURN
SHARED LANE
SDWLK
SDWLK
2%
2%
EXIST. ROAD R.O.W
EXIST. RAIL EASEMENT

PROPOSED TYPICAL SECTION
AT FM 517



HOUSTON DISTRICT
PROJECT DEVELOPMENT

SH 146 SEGMENT 3

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: SH 146
COUNTY: GALVESTON
LIMITS FROM: SH 96
LIMITS TO: FM 517

2
2

FILE LOCATION: H:\Proj\Dev\SH146\Final\ Plot files
PREPARED BY: (YOUR NAME HERE)