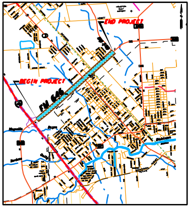
SCHEMATIC LAYOUT
GALVESTON COUNTY
FM 646

Texas Department of Transportation

FROM: IH-45 TO FM 270

HOUSTON DISTRICT

LOCATION MAP


END PROJECT
BEGIN PROJECT
FM 646

LEGEND

SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES	▬	8	BLACK	0
FRONTAGE ROADS AND RAMPS	━	1	BLUE	1
TURNAROUNDS	━	1	BLUE	1
EXISTING ROWY TO BE REMOVED	▬ ▬	0	BLACK	0
EXISTING ROWY TO REMAIN	━	3	GREEN	2
ENCROACHMENT	▬	3	RED	3
CONTROL OF ACCESS	▬	3	RED	3
PROP ROW	▬	5	BLACK	0
EXISTING ROW	━	0	BLACK	0
ACCESS ROAD	‐ ‐ ‐	1	BLUE	1
FLAGPOSTS	●	5	GREEN	2
TRAFFIC COUNT YEAR 2025) DHV	▬	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	▬	4	ORANGE	6
DEPRESSED	▬	3	RED	3
FUTURE	‐ ‐	1	BLUE	1
RETAINING WALL	▬	5	RED	3
STRIPING	● ●	0	ORANGE	6
HIGH OCCUPANCY VEHICLE	▬	7	TURQUOISE	45
OVERHEAD EXPRESSWAY LANES	▬	0	BROWN	7
TEMPORARY CONNECTIONS	▬	10	PURPLE	29
CONT. UNDER CONSTRUCTION	▬	0	LT GREEN	109
RAISED MEDIAN	🟩			
EXISTING PAVEMENT	▭			
PROPOSED GAINLANES	▭			
BRIDGES, STRUCTURES & SIDEWALK	🟧			
PROPOSED FRONTAGE ROAD	🟦			

SCALE: 0 100 200 300 400

LEGEND

(1234)	2025 DHV
——— - -	EXISTING ROW
▬▬ ▪ ▪	PROPOSED ROW

FUNCTIONAL CLASSIFICATION: URBAN PRINCIPAL ARTERIAL

URBAN DIVIDED

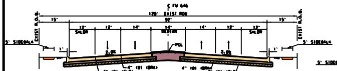
DESIGN SPEED 60 MPH

SCALE: 0 100 200 300 400

PRELIMINARY

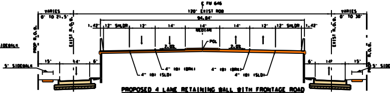
OTHON

OTHON, INC., CONSULTING ENGINEERS
Civil, Transportation, Environmental, CM
11111 Wilcrest Green Drive, Suite 128
Houston, Texas 77042
TEL. 713 975 8555 FAX. 713 975 9068


℄ FM 646
120' EXIST ROW
92'
15'
15'
12' SHLDR
12'
14'
14' MEDIAN
14'
12'
12' SHLDR
EXIST R.O.W.
EXIST R.O.W.
5' SIDEWALK
5' SIDEWALK
1'
1'
PGL
2.0%
2.0%
4" (8) (SLD)
4" (8) (BRK)
4" (8) (BRK)
4" (8) (SLD)

PROPOSED 4 LANE TYPICAL SECTION
STA 8+69.83 TO STA 75+00
STA 110+00 TO STA 129+31.27

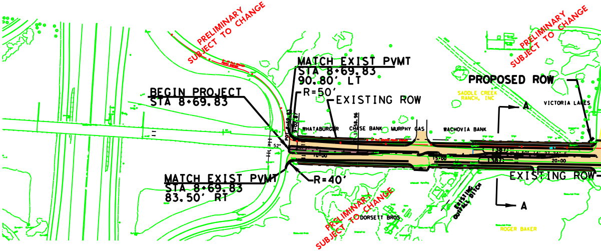
SECTION A-A
N.T.S.

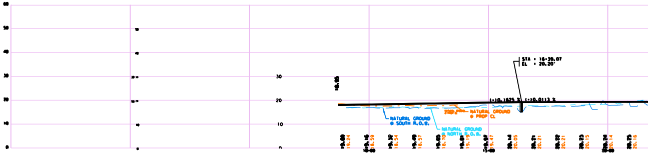

℄ FM 646
VARIES
0' TO 21.5'
120' EXIST ROW
VARIES
0' TO 30'
94.84'
1.42'
12' SHLDR
12'
14'
14' MEDIAN
14'
12'
12' SHLDR
1.42'
PROP R.O.W.
EXIST R.O.W.
EXIST R.O.W.
PROP R.O.W.
5' SIDEWALK
5' SIDEWALK
15'
14'
6'
6'
14'
15'
PGL
2.0%
2.0%
4" (8) (SLD)
4" (8) (BRK)
4" (8) (BRK)
4" (8) (SLD)

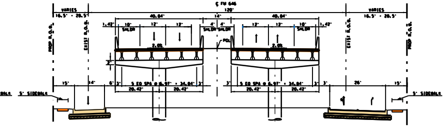
PROPOSED 4 LANE RETAINING WALL WITH FRONTAGE ROAD
STA 75+00 TO STA 82+95
STA 100+20 TO 110+00

SECTION B-B
N.T.S.

1 JAN '08 FHWA/DESIGN DIV COMMENTS
2 APR '09 TxDOT PROJ DEVELOP COMMENTS

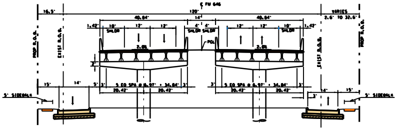

PRELIMINARY SUBJECT TO CHANGE
PRELIMINARY SUBJECT TO CHANGE
PRELIMINARY SUBJECT TO CHANGE
BEGIN PROJECT
STA 8+69.83
MATCH EXIST PVMT
STA 8+69.83
90.80' LT
R=50'
EXISTING ROW
PROPOSED ROW
SADDLE CREEK RANCH, INC
VICTORIA LAKES
A
A
WHATABURGER
CHASE BANK
MURPHY GAS
WACHOVIA BANK
52°
10+00
15+00
20+00
EXISTING ROW
MATCH EXIST PVMT
STA 8+69.83
83.50' RT
R=40'
DORSETT BROS
EXISTING OUTFALL DITCH
ROGER BAKER




℄ FM 646
120'
VARIES
16.5' - 20.5'
40.84'
14'
1.42'
10'
12'
SHLDR
2.0%
PGL
PROP R.O.W.
EXIST R.O.W.
5 EQ SPA @ 6.97' = 34.84'
20.42'
15'
26'
5' SIDEWALK

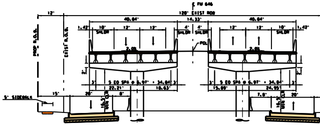
PROPOSED 4 LANE BRIDGE SECTION
STA 82+95 TO STA 100+20

SECTION C-C
N.T.S.


℄ FM 646
120'
16.5'
VARIES
2.6' TO 32.6'
40.84'
14'
1.42'
10'
12'
SHLDR
2.0%
PGL
PROP R.O.W.
EXIST R.O.W.
5 EQ SPA @ 6.97' = 34.84'
20.42'
15'
5' SIDEWALK

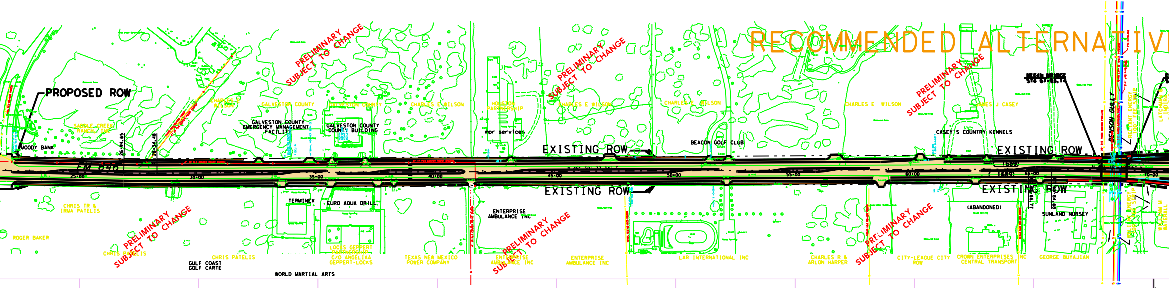
PROPOSED 4 LANE BRIDGE SECTION
STA 82+95 TO STA 100+20

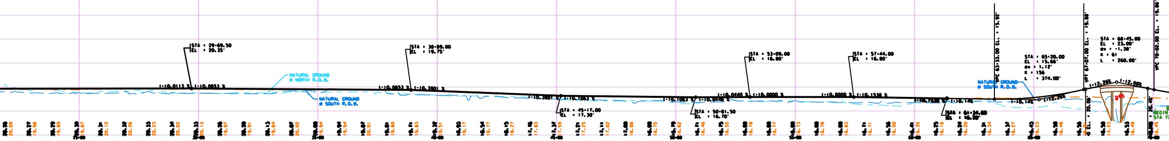
SECTION D-D
N.T.S.


℄ FM 646
120' EXIST ROW
12'
40.84'
14.33'
1.42'
10'
12'
SHLDR
2.0%
PGL
PROP R.O.W.
EXIST R.O.W.
5 EQ SPA @ 6.97' = 34.84'
22.21'
18.63'
15.89'
24.95'
15'
20'
8'
7.8'
16.5' MIN CLR
5' SIDEWALK

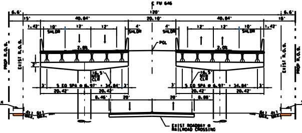
PROPOSED 4 LANE WITH FRONTAGE ROAD
STA 75+00 TO STA 82+95
STA 100+20 TO 110+00

SECTION E-E
N.T.S.

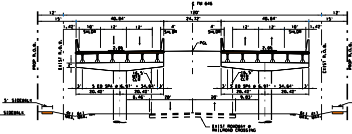

RECOMMENDED ALTERNATIVE
PRELIMINARY SUBJECT TO CHANGE
PROPOSED ROW
EXISTING ROW
FM 646
MOODY BANK
SADDLE CREEK RANCH INC
CHARLES E WILSON
GALVESTON COUNTY
GALVESTON COUNTY EMERGENCY MANAGEMENT FACILITY
GALVESTON COUNTY COUNTY BUILDING
HOUSTON PARTNERSHIP
mpr services
BEACON GOLF CLUB
JAMES J CASEY
CASEY'S COUNTRY KENNELS
BEGIN BRIDGE STA 67+95.14
BENSON GULLY
CHRIS TR & IRMA PATELIS
ROGER BAKER
CHRIS PATELIS
GULF COAST GOLF CARTE
WORLD MARTIAL ARTS
TERMINEX
EURO AQUA DRILL
LOCKS GEPPERT PARTNERSHIP C/O ANGELIKA GEPPERT-LOCKS
TEXAS NEW MEXICO POWER COMPANY
ENTERPRISE AMBULANCE INC
LAR INTERNATIONAL INC
CHARLES R & ARLON HARPER
CITY-LEAGUE CITY ROW
CROWN ENTERPRISES INC CENTRAL TRANSPORT
(ABANDONED)
SUNLAND NURSEY
GEORGE BUYAJIAN
25+00
30+00
35+00
40+00
45+00
50+00
55+00
60+00
65+00


STA = 29+69.50
EL = 20.35'
STA = 38+89.00
EL = 19.75'
STA = 45+17.00
EL = 17.30'
STA = 50+81.50
EL = 16.70'
STA = 53+09.00
EL = 16.80'
STA = 57+44.00
EL = 16.80'
STA = 61+34.00
EL = 16.80'
STA = 65+20.00
EL = 15.66'
e = 1.12'
K = 156
L = 374.00'
STA = 68+45.00
EL = 23.00'
e = -1.38'
K = 61
L = 260.00'
VPC 63+33.00 EL. = 15.92'
VPT 67+07.00 EL. = 19.88'
VPC 70+02.00 EL. = 19.86'
NATURAL GROUND @ NORTH R.O.W.
NATURAL GROUND @ SOUTH R.O.W.
(-10.0113 %)
(-10.0653 %)
(-10.3901 %)
(-10.1063 %)
(-10.0440 %)
(-10.0000 %)
(-10.1536 %)
(+12.26%)
(-12.00%)
25+00
30+00
35+00
40+00
45+00
50+00
55+00
60+00
65+00

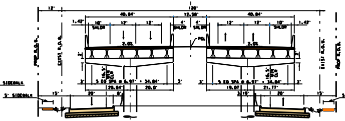
VARIES
2.5' TO 12'
EXIST R.O.W.
PROP R.O.W.
15'
5' SIDEWALK


℄ FM 646
120'
6.6'
15'
40.84'
20.10'
40.84'
1.42'
10' SHLDR
12'
12'
4' SHLDR
2.0%
PGL
PROP R.O.W.
EXIST R.O.W.
5 EQ SPA @ 6.97' = 34.84'
20.42'
8.46'
20'
20'
8.86'
5' SIDEWALK
6:1 6:1
EXIST ROADWAY @ RAILROAD CROSSING

PROPOSED 4 LANE WITH FRONTAGE ROAD
STA 75+00 TO STA 82+95
STA 100+20 TO 110+00


℄ FM 646
120'
12'
15'
40.84'
24.72'
40.84'
1.42'
10' SHLDR
12'
12'
4' SHLDR
2.0%
PGL
PROP R.O.W.
EXIST R.O.W.
5 EQ SPA @ 6.97' = 34.84'
20.42'
8.46'
20'
20'
9.03'
5' SIDEWALK
6:1 6:1
EXIST ROADWAY @ RAILROAD CROSSING

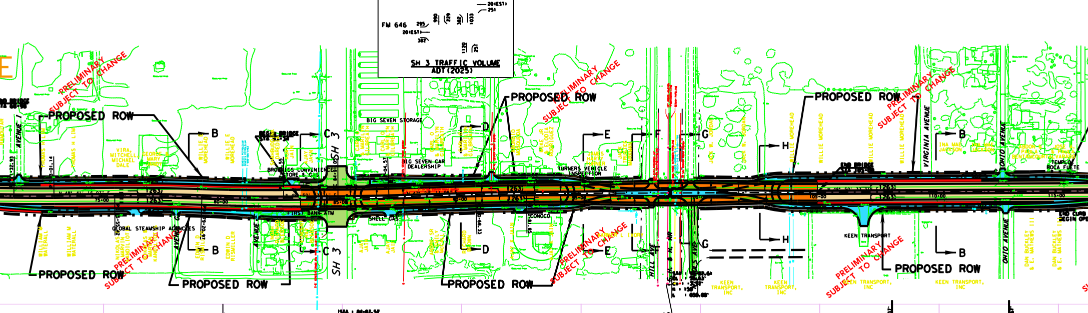
PROPOSED 4 LANE WITH FRONTAGE ROAD
STA 75+00 TO STA 82+95
STA 100+20 TO 110+00

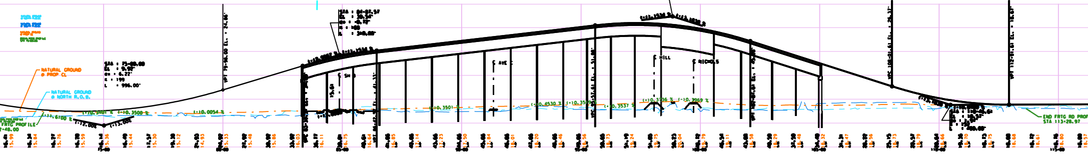

120'
12'
40.84'
12.58'
40.84'
1.42'
10' SHLDR
12'
12'
4' SHLDR
2.0%
PGL
PROP R.O.W.
EXIST R.O.W.
5 EQ SPA @ 6.97' = 34.84'
20.64'
20.6'
19.07'
21.77'
20'
8'
3.19'
20'
15'
5' SIDEWALK

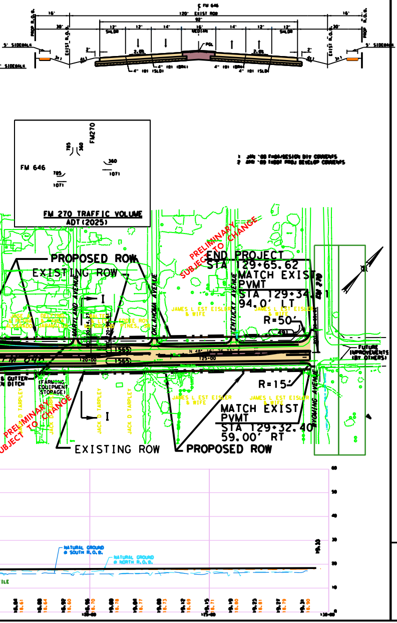
SECTION F-F
N.T.S.

SECTION G-G
N.T.S.

SECTION H-H
N.T.S.


SH3
295
966
229
20(EST)
251
FM 646
295
20(EST)
382
990
229
382
1033
1120
251
SH 3 TRAFFIC VOLUME
ADT(2025)
PRELIMINARY
SUBJECT TO CHANGE
PROPOSED ROW
AVENUE I
B
C
D
E
F
G
H
SH 3
BIG SEVEN STORAGE
BIG SEVEN CAR DEALERSHIP
BROOKIES CONVENIENCE STORE & GAS
FIRST BANK ATM
SHELL GAS
CONOCO
TURNERS VEHICLE INSPECTION
GLOBAL STEAMSHIP AGENCIES
VIRGINIA AVENUE
OHIO AVENUE
HILL AVE
KEEN TRANSPORT
KEEN TRANSPORT, INC
DAN BUCKLEY & E. MATHERS III
TEMPLO ROCA FUERTE
END BRIDGE
75+00
80+00
85+00
90+00
95+00
100+00
105+00
110+00
115+00
END CURB
BEGIN OPEN


NATURAL GROUND @ PROP CL
NATURAL GROUND @ NORTH R.O.W.
FRTG PROFILE
STA : 75+00.00
EL : 9.90'
∆ : 6.22'
K : 199
L : 996.00'
VPI 79+50.00 EL. = 24.96'
℄ SH 3
℄ AVE C
℄ HILL
℄ NICHOLS
END FRTG RD PROF
STA 113+20.97



℄ FM 646
120' EXIST ROW
92'
PROP R.O.W.
EXIST R.O.W.
16'
30'
12' SHLDR
12'
14'
16' MEDIAN
2.0%
PGL
5' SIDEWALK
SIDEWALK
4" (3)
4" (3) (BRK)
FM 270 TRAFFIC VOLUME
ADT (2025)
FM 646
FM270
785
360
1071
PROPOSED ROW
EXISTING ROW
MARYLAND AVENUE
OKLAHOMA AVENUE
KENTUCKY AVENUE
WYOMING AVENUE
FM 270
FM 646
PRELIMINARY SUBJECT TO CHANGE
END PROJECT
STA 129+65.62
MATCH EXIST PVMT
STA 129+34.11
94.0' LT
R=50'
R=15'
MATCH EXIST PVMT
STA 129+32.40
59.00' RT
JAMES L EST EISLER & WIFE
JACK D TARPLEY
FARMING EQUIPMENT STORAGE
GUTTER DITCH
FUTURE IMPROVEMENTS (BY OTHERS)
120+00
125+00
1565
491
NATURAL GROUND @ SOUTH R.O.W.
NATURAL GROUND @ NORTH R.O.W.
60
50
40
30
20
10
0

1 JAN '09 FHWA/DESIGN DIV COMMENTS
2 APR '09 TxDOT PROJ DEVELOP COMMENTS

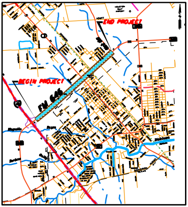
SCHEMATIC LAYOUT
GALVESTON COUNTY
FM 646

Texas Department of Transportation

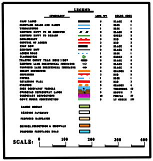
FROM: IH-45 TO FM 270

HOUSTON DISTRICT

LOCATION MAP



END PROJECT
BEGIN PROJECT
FM 646



LEGEND
SCALE: 0 100 200 300 400

LEGEND

1234	2025 DHV
—— - -	EXISTING ROW
▬▬ ■ ■	PROPOSED ROW

FUNCTIONAL CLASSIFICATION: URBAN PRINCIPAL ARTERIAL

URBAN DIVIDED

DESIGN SPEED 60 MPH

SCALE: 0 100 200 300 400

PRELIMINARY

OTHON
OTHON, INC., CONSULTING ENGINEERS
Civil, Transportation, Environmental, CM
11111 Wilcrest Green Drive, Suite 128
Houston, Texas 77042
TEL. 713 975 8555 FAX. 713 975 9068