FM 3338

CSJ: 3532-02-012

PRELIMINARY DESIGN SCHEMATIC
WEBB COUNTY

LIMITS: FM 1472 TO SH 255
PROJECT DESC: WIDENING OF NON-FREEWAY

PROJECT LENGTH: 7.72 MILES
RDWY LENGTH: 7.67 MILES
BRIDGE LENGTH: 0.05 MILES

LAREDO DISTRICT

6/19/2020

LAREDO DISTRICT ENGINEER

DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

PRELIMINARY - NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION

RYAN JOSEFOVSKY, P.E.	P.E. NUMBER	DATE
	98641	$DATE$

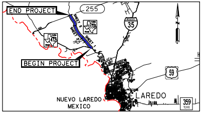
DESIGN SPEED	FUNCTIONAL CLASS	ADT FM 3338
70 MPH	MINOR COLLECTOR	2024 = 2,900 2044 = 4,400

DESIGN DATA

DESIGN CRITERIA: 4R
DESIGN EXCEPTIONS: NONE
SUPERELEVATION e_{MAX}: 6%

SURVEY DATA

SURFACE COORDINATES	
HORIZONTAL DATUM:	NAD83
HORIZONTAL ADJUSTMENTS:	CSF:1.00003
PROJECT ZONE:	TEXAS SOUTH
VERTICAL DATUM:	NAVD88
UNITS OF MEASURE:	US SURVEY FEET


END PROJECT
255
SHEET 3
SHEET 2
SHEET 1
3338
1472
35
59
359
BEGIN PROJECT
NUEVO LAREDO
MEXICO
LAREDO

LOCATION MAP
N.T.S.

PLAN LEGEND

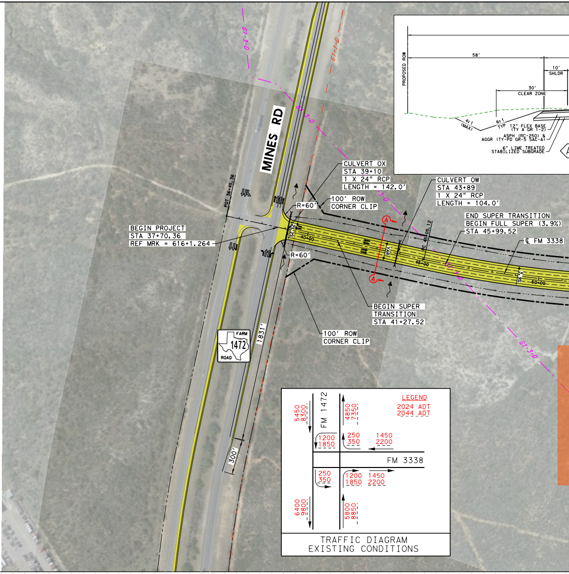
PROPOSED ROW	▬ ▬ - - ▬ ▬ - -
EXISTING ROW	—— - - —— - -
EXISTING GAS PIPELINE	- - —— GS-1-D
EXISTING WATERLINE	- - —— W1-12-D
EXISTING WASTEWATER	—— WW1-8-D
EXISTING TELECOM	—— T1-1-D ——
EXISTING OVERHEAD POWERLINE	—— E1-1-D ——
PROPOSED TRAFFIC LANE	➡
EXISTING TRAFFIC LANE	⇨
PARCEL BOUNDARY	——
CULVERT FLOW DIRECTION	∼➝
PROPOSED ROADWAY	🟨
PAVEMENT TO BE REMOVED	▦

PRELIMINARY DESIGN SCHEMATIC
SUBJECT TO CHANGE
NOT A BIDDING DOCUMENT

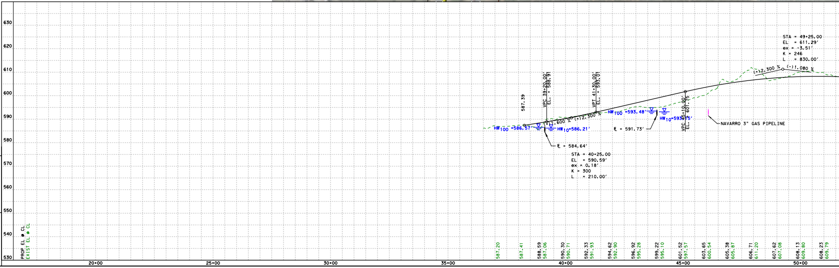
PROFILE LEGEND

PROPOSED FM 3338 PROFILE GRADE LINE (PGL)	——
EXISTING NATURAL GROUND AT PROPOSED FM 3338 CENTERLINE	- - - -
PROPOSED CULVERT CROSSING	⬯ ▯
EXISTING PIPELINE CROSSING	●

0 100 200
SCALE: 1" = 200' H
1" = 20' V


MINES RD
G1-3-D
E1-1-D
POT 36+45.36
BEGIN PROJECT
STA 37+70.36
REF MRK = 616+1.264
R=60'
R=60'
CULVERT OX
STA 39+10
1 X 24" RCP
LENGTH = 142.0'
100' ROW
CORNER CLIP
CULVERT OW
STA 43+89
1 X 24" RCP
LENGTH = 104.0'
END SUPER TRANSITION
BEGIN FULL SUPER (3.9%)
STA 45+99.52
℄ FM 3338
40+00
45+00
50+00
PC 45+05.12
A
A
BEGIN SUPER
TRANSITION
STA 41+27.52
100' ROW
CORNER CLIP
FARM
1472
ROAD
183'
300'
PROPOSED ROW
58'
10'
SHLDR
30'
CLEAR ZONE
4:1
(MAX)
6:1
TYP
12" FLEX BASE
(TY A GR 1-2)
ASPH (RC-250) &
AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED
STABILIZED SUBGRADE
FM 1472
5450
8300
4850
7350
LEGEND
2024 ADT
2044 ADT
1200
1850
250
350
1450
2200
FM 3338
250
350
1200
1850
1450
2200
6400
9800
5800
8850

TRAFFIC DIAGRAM
EXISTING CONDITIONS

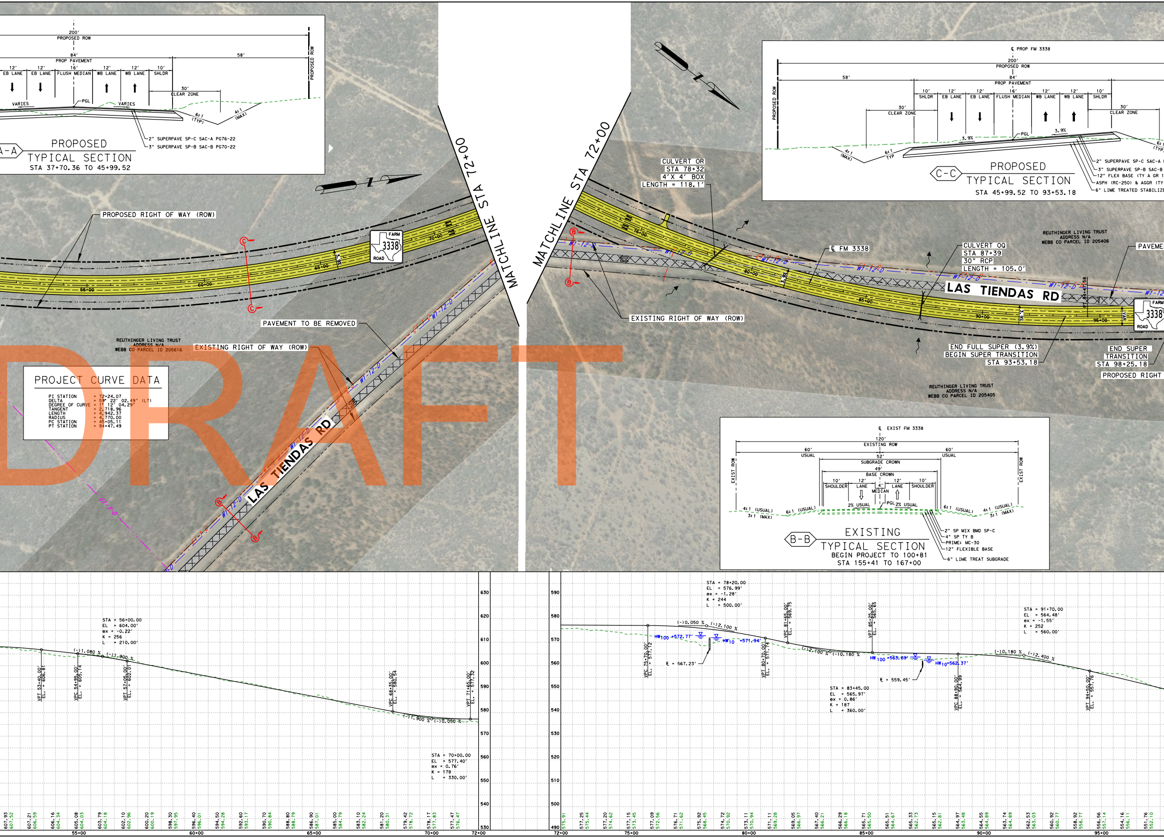


3131 Briarpark Suite 200
Houston, Texas 77042
Phone (713) 622-1444
Fax (713) 968-9333

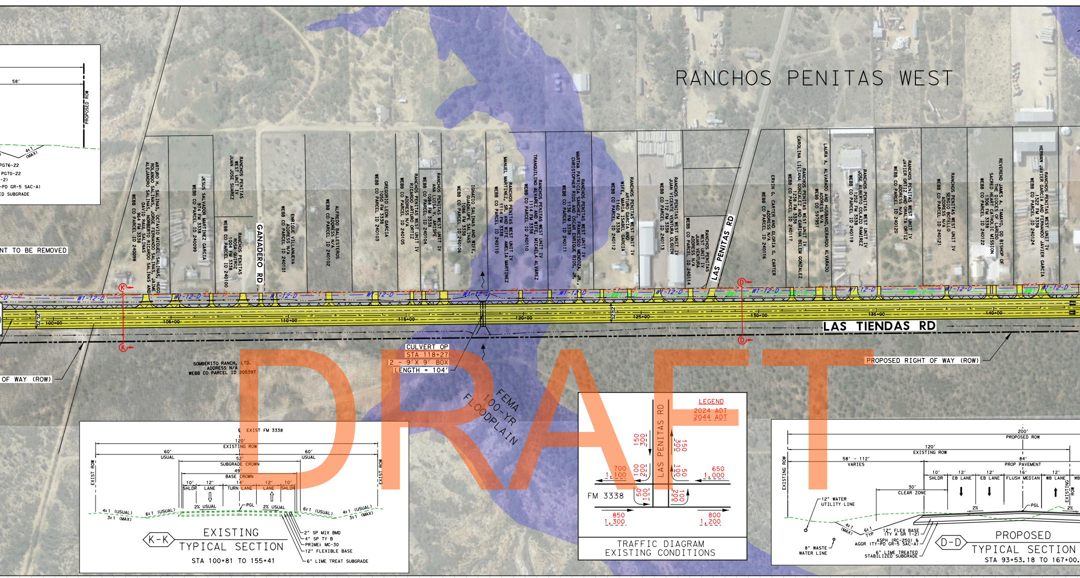
TBPE REG.
NO. F-2742

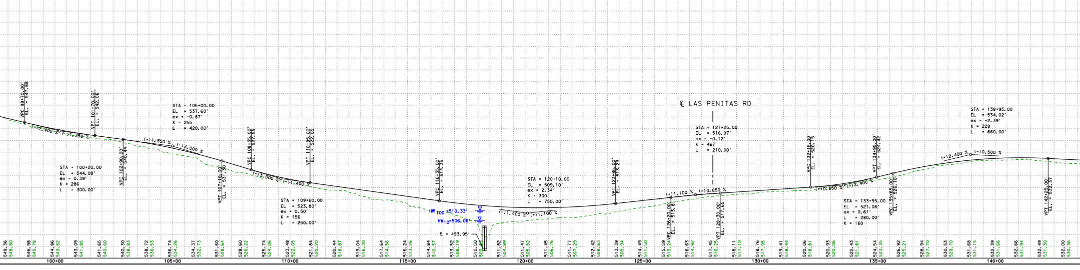
FM 3338

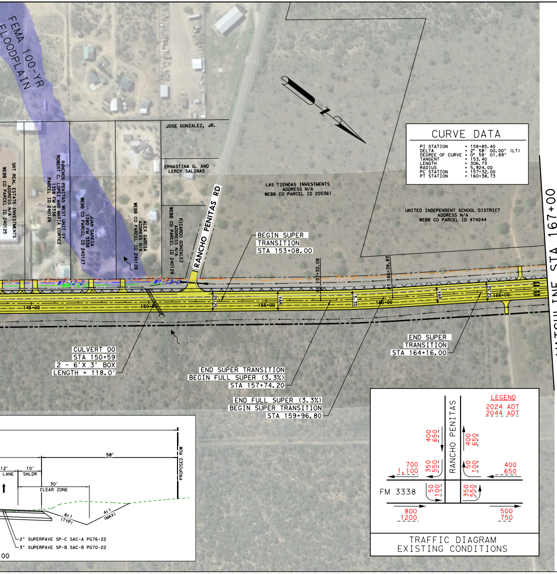
SCHEMATIC LAYOUT


200'
PROPOSED ROW
84'
PROP PAVEMENT
58'
12'
EB LANE
12'
EB LANE
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
PROPOSED ROW
30'
CLEAR ZONE
VARIES
PGL
VARIES
6:1 (TYP)
4:1 (MAX)
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22
A-A
PROPOSED
TYPICAL SECTION
STA 37+70.36 TO 45+99.52
N
PROPOSED RIGHT OF WAY (ROW)
C
C
FARM 3338 ROAD
55+00
60+00
65+00
70+00
3.9%
MATCHLINE STA 72+00
PAVEMENT TO BE REMOVED
REUTHINGER LIVING TRUST
ADDRESS N/A
WEBB CO PARCEL ID 205616
EXISTING RIGHT OF WAY (ROW)
PROJECT CURVE DATA
PI STATION = 72+24.07
DELTA = 59° 22' 02.49" (LT)
DEGREE OF CURVE = 1° 12' 04.29"
TANGENT = 2,718.96
LENGTH = 4,942.37
RADIUS = 4,770.00
PC STATION = 45+05.11
PT STATION = 94+47.49
W1-12-D
LAS TIENDAS RD
B
B
DRAFT
MATCHLINE STA 72+00
N
CULVERT OR
STA 78+32
4'X 4' BOX
LENGTH = 118.1'
B
B
W1-12-D
75+00
80+00
85+00
90+00
95+00
3.9%
℄ FM 3338
CULVERT OQ
STA 87+39
30" RCP
LENGTH = 105.0'
REUTHINGER LIVING TRUST
ADDRESS N/A
WEBB CO PARCEL ID 205406
PAVEME
LAS TIENDAS RD
EXISTING RIGHT OF WAY (ROW)
END FULL SUPER (3.9%)
BEGIN SUPER TRANSITION
STA 93+53.18
END SUPER
TRANSITION
STA 98+25.18
PROPOSED RIGHT
FARM 3338 ROAD
VAR
REUTHINGER LIVING TRUST
ADDRESS N/A
WEBB CO PARCEL ID 205405
℄ PROP FM 3338
200'
PROPOSED ROW
58'
84'
PROP PAVEMENT
10'
SHLDR
12'
EB LANE
12'
EB LANE
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
PROPOSED ROW
30'
CLEAR ZONE
30'
CLEAR ZONE
3.9%
PGL
3.9%
4:1 (MAX)
6:1 TYP
6:1 (TYP
C-C
PROPOSED
TYPICAL SECTION
STA 45+99.52 TO 93+53.18
2" SUPERPAVE SP-C SAC-A
3" SUPERPAVE SP-B SAC-B
12" FLEX BASE (TY A GR 1
ASPH (RC-250) & AGGR (TY
6" LIME TREATED STABILIZE
℄ EXIST FM 3338
120'
EXISTING ROW
60'
USUAL
60'
USUAL
52'
SUBGRADE CROWN
49'
BASE CROWN
10'
SHOULDER
12'
LANE
4'
MEDIAN
12'
LANE
10'
SHOULDER
EXIST ROW
EXIST ROW
2% USUAL
PGL
2% USUAL
4:1 (USUAL)
3:1 (MAX)
6:1 (USUAL)
6:1 (USUAL)
4:1 (USUAL)
3:1 (MAX)
2" SP MIX BMD SP-C
4" SP TY B
PRIME: MC-30
12" FLEXIBLE BASE
6" LIME TREAT SUBGRADE
B-B
EXISTING
TYPICAL SECTION
BEGIN PROJECT TO 100+81
STA 155+41 TO 167+00
STA = 56+00.00
EL = 604.00'
ex = -0.22'
K = 256
L = 210.00'
(-)1.080 %
(-)1.900 %
VPT 53+40.00' EL. = 606.81
VPC 54+95.00' EL. = 605.14
VPT 57+05.00' EL. = 602.01
VPC 68+35.00' EL. = 580.54
VPT 71+65.00' EL. = 577.32
(-)1.900 %
(-)0.050 %
STA = 70+00.00
EL = 577.40'
ex = 0.76'
K = 178
L = 330.00'
630
620
610
600
590
580
570
560
550
540
530
STA = 78+20.00
EL = 576.99'
ex = -1.28'
K = 244
L = 500.00'
(-)0.050 %
(-)2.100 %
HW100 =572.77'
HW10 =571.94'
℄ = 567.23'
VPC 75+70.00' EL. = 577.12
VPT 80+70.00' EL. = 571.4
VPC 81+65.00' EL. = 569.75
VPT 85+25.00' EL. = 565.65
(-)2.100 %
(-)0.180 %
HW100 =563.69'
HW10 =562.37'
℄ = 559.45'
STA = 83+45.00
EL = 565.97'
ex = 0.86'
K = 187
L = 360.00'
VPC 88+90.00' EL. = 564.99
STA = 91+70.00
EL = 564.48'
ex = -1.55'
K = 252
L = 560.00'
(-)0.180 %
(-)2.400 %
VPT 94+50.00' EL. = 557.16
590
580
570
560
550
540
530
520
510
500
490
55+00
60+00
65+00
70+00
72+00
72+00
75+00
80+00
85+00
90+00
95+00

DRAFT

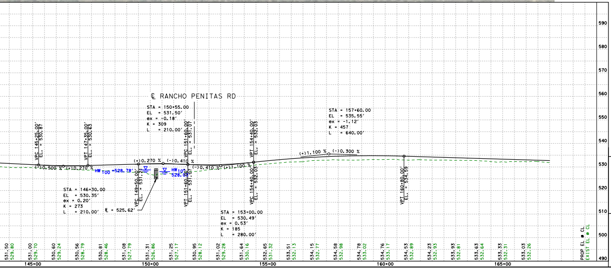

RANCHOS PENITAS WEST
LAS TIENDAS RD
GANADERO RD
LAS PENITAS RD
CULVERT OP
STA 118+27
2 - 9' X 9' BOX
LENGTH = 104'
FEMA 100-YR FLOODPLAIN
PROPOSED RIGHT OF WAY (ROW)
OF WAY (ROW)
NT TO BE REMOVED
SOMBERITO RANCH, LTD.
ADDRESS N/A
WEBB CO PARCEL ID 205397
PROPOSED ROW
58'
4:1 (MAX)
PG76-22
PG70-22
-2)
-PD GR-5 SAC-A)
ED SUBGRADE
W1-12-D
100+00
105+00
110+00
115+00
120+00
125+00
130+00
135+00
140+00
℄ EXIST FM 3338
120' EXISTING ROW
60' USUAL
52' SUBGRADE CROWN
49' BASE CROWN
10' SHLDR
12' LANE
14' TURN LANE
2% USUAL
PGL
6:1 (USUAL)
4:1 (USUAL)
3:1 (MAX)
EXIST ROW
2" SP MIX BMD
4" SP TY B
PRIME: MC-30
12" FLEXIBLE BASE
6" LIME TREAT SUBGRADE
K-K
EXISTING TYPICAL SECTION
STA 100+81 TO 155+41
LEGEND
2024 ADT
2044 ADT
FM 3338
150 300
700 1,100
100 200
50 100
850 1,300
650 1,000
800 1,200
TRAFFIC DIAGRAM
EXISTING CONDITIONS
200' PROPOSED ROW
120' EXISTING ROW
58' - 112' VARIES
84' PROP PAVEMENT
10' SHLDR
12' EB LANE
16' FLUSH MEDIAN
12' WB LANE
30' CLEAR ZONE
12" WATER UTILITY LINE
8" WASTE WATER LINE
12" FLEX BASE (TY A GR 1-2)
ASPH (RC-250) & AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED STABILIZED SUBGRADE
EXISTING ROW
D-D
PROPOSED TYPICAL SECTION
STA 93+53.18 TO 167+00.


℄ LAS PENITAS RD
STA = 100+20.00
EL = 544.08'
ex = 0.39'
K = 286
L = 300.00'
STA = 105+00.00
EL = 537.60'
ex = -0.87'
K = 255
L = 420.00'
STA = 109+60.00
EL = 523.80'
ex = 0.50'
K = 156
L = 250.00'
STA = 120+10.00
EL = 509.10'
ex = 2.34'
K = 300
L = 750.00'
STA = 127+25.00
EL = 516.97'
ex = -0.12'
K = 467
L = 210.00'
STA = 133+55.00
EL = 521.06'
ex = 0.61'
L = 280.00'
K = 160
STA = 138+95.00
EL = 534.02'
ex = -2.39'
K = 228
L = 660.00'
HW100 = 510.33'
HW10 = 506.06'
(-)2.400 %
(-)1.350 %
(-)3.000 %
(-)1.400 %
(-)1.100 %
(+)0.650 %
(+)2.400 %
(-)0.500 %
100+00
105+00
110+00
115+00
120+00
125+00
130+00
135+00
140+00


FEMA 100-YR FLOODPLAIN
JOSE GONZALEZ, JR.
ERNASTINA G. AND LEROY SALINAS
SRT REAL ESTATE INVESTMENTS ADDRESS N/A WEBB CO PARCEL ID 240125
RANCHOS PENITAS WEST UNIT IV ROBERT C. LOPEZ AND MARIA CORTEZ 1358 FM 3338 PARCEL ID 240126
JUAN GARCIA 1380 FM 3338 WEBB CO PARCEL ID 240127
ALEX GARCIA ADDRESS N/A WEBB CO PARCEL ID 240128
RICARDO GONZALEZ ADDRESS N/A WEBB CO PARCEL ID 240129
RANCHO PENITAS RD
LAS TIENDAS INVESTMENTS ADDRESS N/A WEBB CO PARCEL ID 205361
UNITED INDEPENDENT SCHOOL DISTRICT ADDRESS N/A WEBB CO PARCEL ID 474244
E1-1-D
W1-12-D
WW1-8-D
T1-1-D
145+00
150+00
155+00
160+00
165+00
2% 2%
3.3%
VAR
PC 157+32.00
PT 160+38.73
BEGIN SUPER TRANSITION STA 153+08.00
END SUPER TRANSITION STA 164+16.00
CULVERT 00 STA 150+59 2 - 6'X 3' BOX LENGTH = 118.0'
END SUPER TRANSITION BEGIN FULL SUPER (3.3%) STA 157+74.20
END FULL SUPER (3.3%) BEGIN SUPER TRANSITION STA 159+96.80
MATCHLINE STA 167+00
58'
12' LANE
10' SHLDR
30' CLEAR ZONE
6:1 (TYP)
4:1 (MAX)
PROPOSED ROW
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22
00
LEGEND
2024 ADT
2044 ADT
RANCHO PENITAS
FM 3338
400 650
400 650
700 1,100
350 550
50 100
400 650
50 100
350 550
800 1200
500 750
TRAFFIC DIAGRAM EXISTING CONDITIONS

CURVE DATA

PI STATION = 158+85.40
DELTA = 2° 58′ 00.00″ (LT)
DEGREE OF CURVE = 0° 58′ 01.89″
TANGENT = 153.40
LENGTH = 306.73
RADIUS = 5,924.00
PC STATION = 157+32.00
PT STATION = 160+38.73



Texas Department of Transportation
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FM 3338
CSJ: 3532-02-012
PRELIMINARY DESIGN SCHEMATIC
WEBB COUNTY
LIMITS: FM 1472 TO SH 255
PROJECT DESC: WIDENING OF NON-FREEWAY
PROJECT LENGTH: 7.72 MILES
RDWY LENGTH: 7.67 MILES
BRIDGE LENGTH: 0.05 MILES

LAREDO DISTRICT

6/19/2020

LAREDO DISTRICT ENGINEER

DIRECTOR OF TRANSPORTATION,
PLANNING & DEVELOPMENT

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RYAN JOSEFOVSKY, P.E.	P.E. NUMBER	DATE
	98641	$DATE$

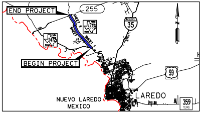
DESIGN SPEED
70 MPH

FUNCTIONAL CLASS
MINOR COLLECTOR

ADT FM 3338
2024 = 2,900
2044 = 4,400

DESIGN DATA
DESIGN CRITERIA: 4R
DESIGN EXCEPTIONS: NONE
SUPERELEVATION e_{MAX} : 6%

SURVEY DATA
SURFACE COORDINATES
HORIZONTAL DATUM: NAD83
HORIZONTAL ADJUSTMENTS:CSF:1.00003
PROJECT ZONE: TEXAS SOUTH
VERTICAL DATUM: NAVD88
UNITS OF MEASURE: US SURVEY FEET


END PROJECT
255
35
3338
1472
SHEET 3
SHEET 2
SHEET 1
BEGIN PROJECT
59
NUEVO LAREDO MEXICO
LAREDO
359

LOCATION MAP
N.T.S.

PLAN LEGEND

PROPOSED ROW	━━ ━ ━ ━━ ━ ━
EXISTING ROW	—— - - —— - -
EXISTING GAS PIPELINE	- - —— G5-1-D
EXISTING WATERLINE	· - —— W1-12-D ·
EXISTING WASTEWATER	—— WW1-8-D ·
EXISTING TELECOM	· —— T1-1-D ——
EXISTING OVERHEAD POWERLINE	—— E1-1-D ——
PROPOSED TRAFFIC LANE	➡
EXISTING TRAFFIC LANE	⇨
PARCEL BOUNDARY	——
CULVERT FLOW DIRECTION	⁓▶
PROPOSED ROADWAY	🟨
PAVEMENT TO BE REMOVED	▦

PRELIMINARY DESIGN SCHEMATIC
SUBJECT TO CHANGE
NOT A BIDDING DOCUMENT

PROFILE LEGEND

PROPOSED FM 3338 PROFILE GRADE LINE (PGL)	——
EXISTING NATURAL GROUND AT PROPOSED FM 3338 CENTERLINE	- - - - -
PROPOSED CULVERT CROSSING	⬯ ▯
EXISTING PIPELINE CROSSING	⬮

0 100 200
SCALE: 1" = 200' H
1" = 20' V

PGAL
TBPE REG.
NO. F-2742

3131 Brlarpark Sulte 200
Houston, Texas 77042
Phone (713) 622-1444
Fax (713) 968-9333

FM 3338

SCHEMATIC LAYOUT

SHEET 1 OF 3

Texas Department of Transportation

FM 3338

CSJ: 3532-02-012

PRELIMINARY DESIGN SCHEMATIC
WEBB COUNTY

LIMITS: FM 1472 TO SH 255
PROJECT DESC: WIDENING OF NON-FREEWAY

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RDWY LENGTH: 7.67 MILES
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6/19/2020

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	98641	$DATE$
RYAN JOSEFOVSKY, P.E.	P.E. NUMBER	DATE

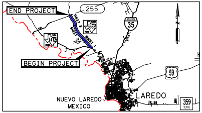
DESIGN SPEED	FUNCTIONAL CLASS	ADT FM 3338
70 MPH	MINOR COLLECTOR	2024 = 2,900 2044 = 4,400

DESIGN DATA

DESIGN CRITERIA: 4R
DESIGN EXCEPTIONS: NONE
SUPERELEVATION e_{MAX}: 6%

SURVEY DATA

SURFACE COORDINATES	
HORIZONTAL DATUM:	NAD83
HORIZONTAL ADJUSTMENTS:	CSF:1.00003
PROJECT ZONE:	TEXAS SOUTH
VERTICAL DATUM:	NAVD88
UNITS OF MEASURE:	US SURVEY FEET



END PROJECT
255
35
SHEET 3
SHEET 2
1472
3338
BEGIN PROJECT
59
NUEVO LAREDO
MEXICO
LAREDO
359
N

LOCATION MAP
N.T.S.

PLAN LEGEND

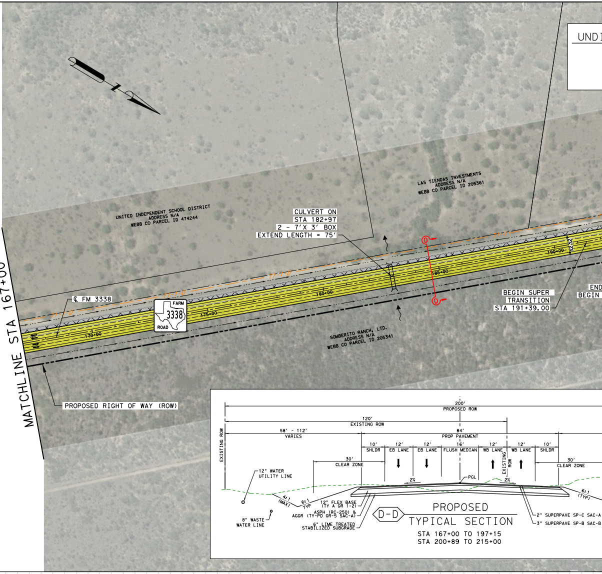
PROPOSED ROW	
EXISTING ROW	
EXISTING GAS PIPELINE	G5-1-D
EXISTING WATERLINE	W1-12-D
EXISTING WASTEWATER	WW1-8-D
EXISTING TELECOM	T1-1-D
EXISTING OVERHEAD POWERLINE	
PROPOSED TRAFFIC LANE	➡
EXISTING TRAFFIC LANE	⇨
PARCEL BOUNDARY	
CULVERT FLOW DIRECTION	↝
PROPOSED ROADWAY	🟨
PAVEMENT TO BE REMOVED	▦

PRELIMINARY DESIGN SCHEMATIC
SUBJECT TO CHANGE
NOT A BIDDING DOCUMENT

PROFILE LEGEND

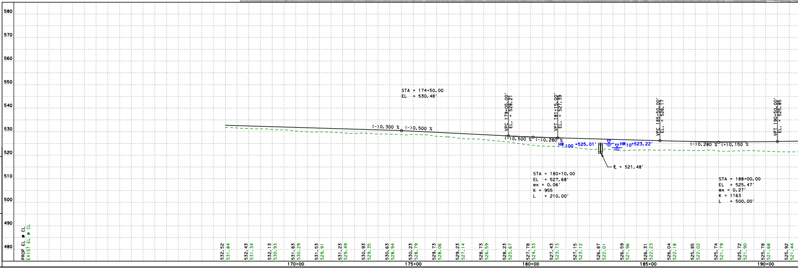
PROPOSED FM 3338 PROFILE GRADE LINE (PGL)	
EXISTING NATURAL GROUND AT PROPOSED FM 3338 CENTERLINE	
PROPOSED CULVERT CROSSING	⬯ ▯
EXISTING PIPELINE CROSSING	⬮

0 100 200
SCALE: 1" = 200' H
1" = 20' V



N
UND
UNITED INDEPENDENT SCHOOL DISTRICT
ADDRESS N/A
WEBB CO PARCEL ID 474244
LAS TIENDAS INVESTMENTS
ADDRESS N/A
WEBB CO PARCEL ID 205361
CULVERT ON
STA 182+97
2 - 7'X 3' BOX
EXTEND LENGTH = 75'
T1-1-D
℄ FM 3338
FARM
3338
ROAD
170+00
175+00
180+00
185+00
190+00
D
2% 2%
BEGIN SUPER
TRANSITION
STA 191+39.00
END
BEGIN
SOMBERITO RANCH, LTD.
ADDRESS N/A
WEBB CO PARCEL ID 205341
MATCHLINE STA 167+00
PROPOSED RIGHT OF WAY (ROW)
200'
PROPOSED ROW
120'
EXISTING ROW
58' - 112'
VARIES
84'
PROP PAVEMENT
10'
SHLDR
12'
EB LANE
12'
EB LANE
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
EXISTING ROW
30'
CLEAR ZONE
30'
CLEAR ZONE
EXISTING ROW
12" WATER
UTILITY LINE
PGL
2%
2%
4:1
(MAX)
6:1
TYP
6:1
(TYP)
12" FLEX BASE
(TY A GR 1-2)
ASPH (RC-250) &
AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED
STABILIZED SUBGRADE
8" WASTE
WATER LINE
2" SUPERPAVE SP-C SAC-A
3" SUPERPAVE SP-B SAC-B

D-D PROPOSED TYPICAL SECTION
STA 167+00 TO 197+15
STA 200+89 TO 215+00



PGAL

3131 Briarpark Suite 200
Houston, Texas 77042
Phone (713) 622-1444
Fax (713) 968-9333

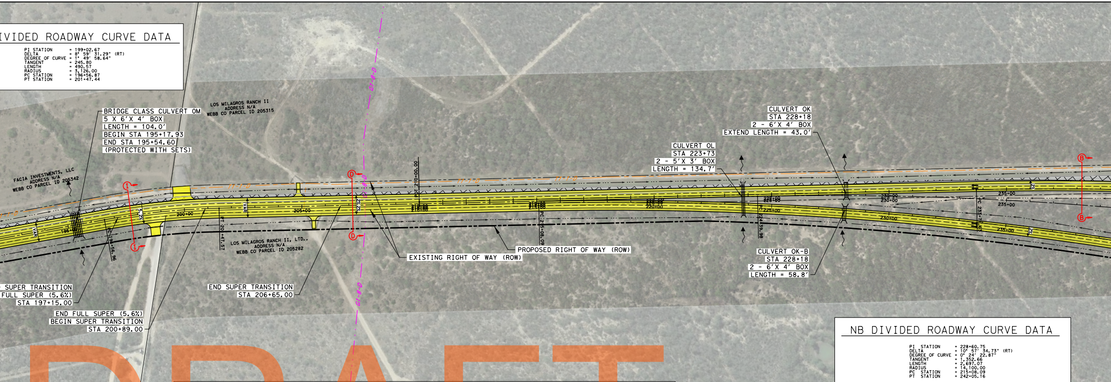
TBPE REG.
NO. F-2742

FM 3338

SCHEMATIC LAYOUT

IVIDED ROADWAY CURVE DATA

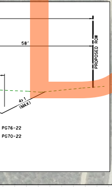
PI STATION = 199+02.67
DELTA = 8° 59' 31.29" (RT)
DEGREE OF CURVE = 1° 49' 58.64"
TANGENT = 245.80
LENGTH = 490.57
RADIUS = 3,126.00
PC STATION = 196+56.87
PT STATION = 201+47.44

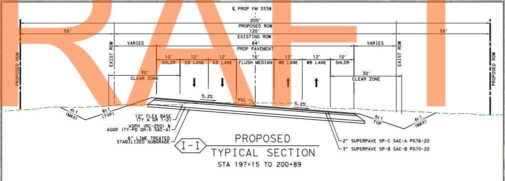

BRIDGE CLASS CULVERT OM
5 X 6'X 4' BOX
LENGTH = 104.0'
BEGIN STA 195+17.93
END STA 195+54.60
(PROTECTED WITH SETS)
LOS MILAGROS RANCH II
ADDRESS N/A
WEBB CO PARCEL ID 205315
FACIA INVESTMENTS, LLC
ADDRESS N/A
WEBB CO PARCEL ID 206342
CULVERT OK
STA 228+18
2 - 6'X 4' BOX
EXTEND LENGTH = 43.0'
CULVERT OL
STA 223+73
2 - 5'X 3' BOX
LENGTH = 134.7'
CULVERT OK-B
STA 228+18
2 - 6'X 4' BOX
LENGTH = 58.8'
LOS MILAGROS RANCH II, LTD.,
ADDRESS N/A
WEBB CO PARCEL ID 205282
EXISTING RIGHT OF WAY (ROW)
PROPOSED RIGHT OF WAY (ROW)
SUPER TRANSITION
FULL SUPER (5.6%)
STA 197+15.00
END FULL SUPER (5.6%)
BEGIN SUPER TRANSITION
STA 200+89.00
END SUPER TRANSITION
STA 206+65.00
195+00
200+00
205+00
210+00
215+00
220+00
225+00
230+00
235+00
PC 196+56.96
PT 201+47.57
POT 210+00.00
PC 215+08.09
PC 224+39.98
PC 233+17.38
VAR
5.2%
5.2%
22'
I
D
B
G1-8-0

NB DIVIDED ROADWAY CURVE DATA

PI STATION = 228+60.75
DELTA = 10° 57' 34.73" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 1,352.66
LENGTH = 2,697.07
RADIUS = 14,100.00
PC STATION = 215+08.09
PT STATION = 242+05.16

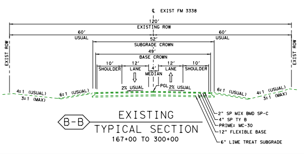
DRAFT


58'
PROPOSED ROW
4:1
(MAX)
PG76-22
PG70-22


℄ PROP FM 3338
200'
PROPOSED ROW
120'
EXISTING ROW
84'
PROP PAVEMENT
58'
58'
VARIES
VARIES
10'
SHLDR
12'
EB LANE
12'
EB LANE
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
30'
CLEAR ZONE
30'
CLEAR ZONE
PROPOSED ROW
EXIST ROW
EXIST ROW
PROPOSED ROW
5.2%
PGL
5.2%
4:1
(MAX)
6:1
(TYP)
6:1
TYP
4:1
(MAX)
12" FLEX BASE
(TY A GR 1-2)
ASPH (RC-250) &
AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED
STABILIZED SUBGRADE
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22

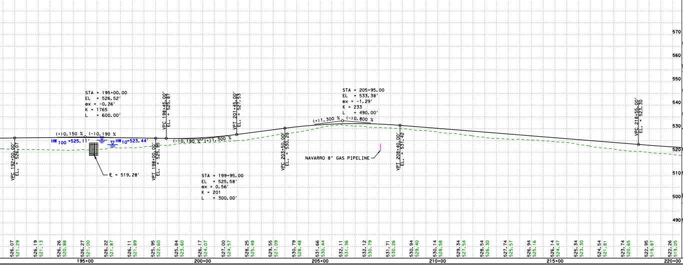
I-I PROPOSED TYPICAL SECTION

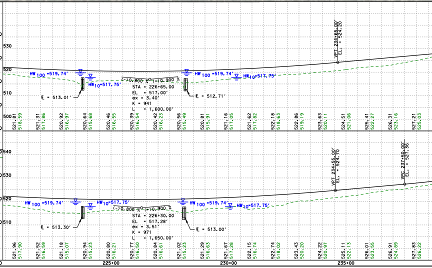
STA 197+15 TO 200+89

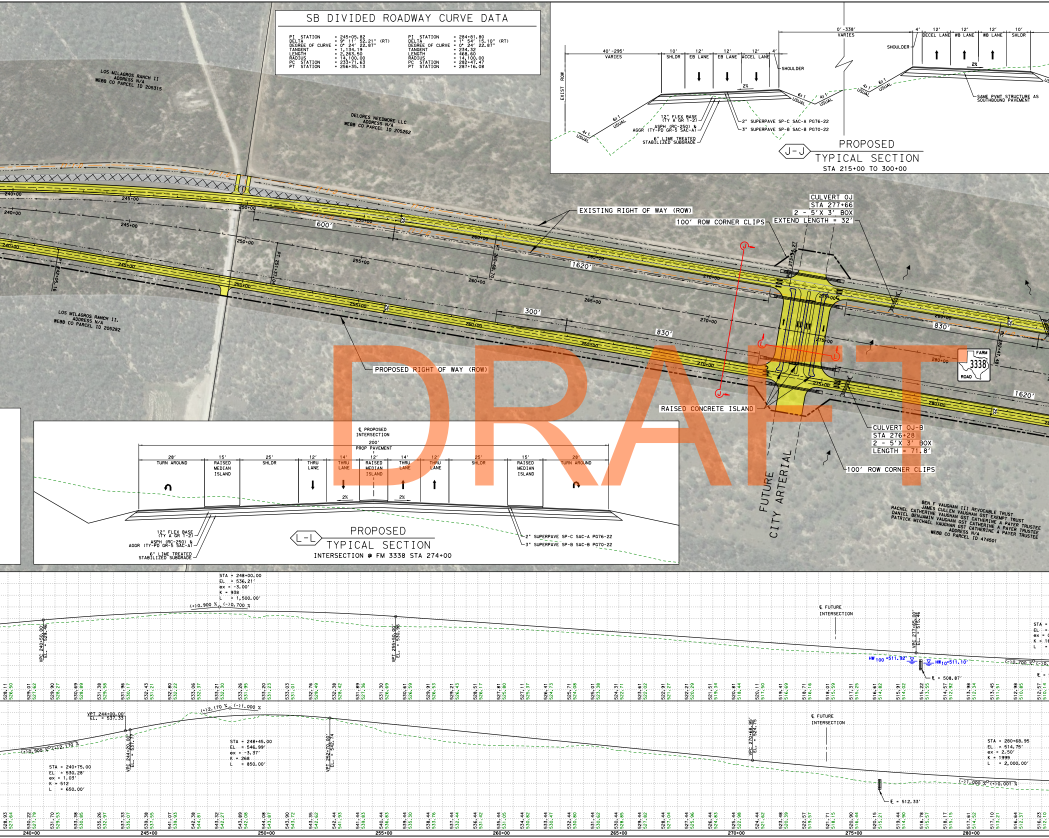

℄ EXIST FM 3338
120'
EXISTING ROW
60'
USUAL
60'
USUAL
52'
SUBGRADE CROWN
49'
BASE CROWN
10'
SHOULDER
12'
LANE
4'
MEDIAN
12'
LANE
10'
SHOULDER
EXIST ROW
EXIST ROW
2% USUAL
PGL
2% USUAL
4:1 (USUAL)
3:1 (MAX)
6:1 (USUAL)
6:1 (USUAL)
4:1 (USUAL)
3:1 (MAX)
2" SP MIX BMD SP-C
4" SP TY B
PRIME: MC-30
12" FLEXIBLE BASE
6" LIME TREAT SUBGRADE

B-B EXISTING TYPICAL SECTION

167+00 TO 300+00







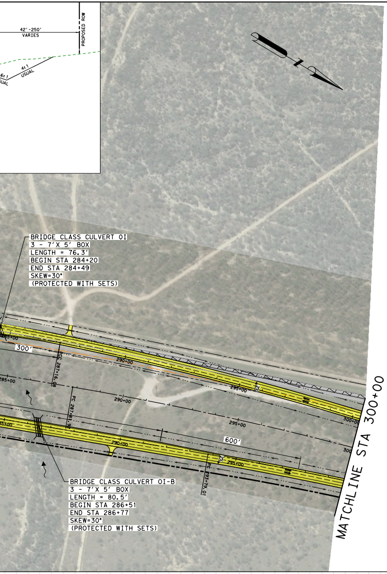
SB DIVIDED ROADWAY CURVE DATA

PI STATION = 245+05.82
DELTA = 9° 11′ 52.21" (RT)
DEGREE OF CURVE = 0° 24′ 22.87"
TANGENT = 1,134.19
LENGTH = 2,263.50
RADIUS = 14,100.00
PC STATION = 233+71.63
PT STATION = 256+35.13

PI STATION = 284+81.80
DELTA = 1° 54′ 15.10" (RT)
DEGREE OF CURVE = 0° 24′ 22.87"
TANGENT = 234.32
LENGTH = 468.60
RADIUS = 14,100.00
PC STATION = 282+47.47
PT STATION = 287+16.08

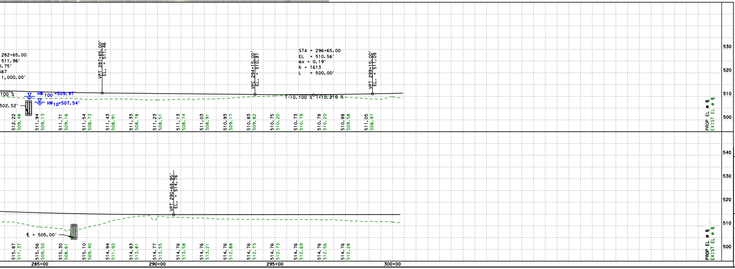
PROPOSED TYPICAL SECTION
J-J
STA 215+00 TO 300+00
EXIST ROW
40′-295′ VARIES
10′ SHLDR
12′ EB LANE
12′ EB LANE
12′ ACCEL LANE
4′ SHOULDER
0′-338′ VARIES
4′ SHOULDER
12′ DECEL LANE
12′ WB LANE
12′ WB LANE
10′ SHLDR
2%
6:1 USUAL
4:1 USUAL
12" FLEX BASE (TY A GR 1-2)
ASPH (RC-250) & AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED STABILIZED SUBGRADE
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22
SAME PVMT STRUCTURE AS SOUTHBOUND PAVEMENT
LOS MILAGROS RANCH II ADDRESS N/A WEBB CO PARCEL ID 205315
DELORES NEEDMORE LLC ADDRESS N/A WEBB CO PARCEL ID 205262
LOS MILAGROS RANCH II. ADDRESS N/A WEBB CO PARCEL ID 205282
EXISTING RIGHT OF WAY (ROW)
PROPOSED RIGHT OF WAY (ROW)
100′ ROW CORNER CLIPS
CULVERT OJ STA 277+66 2 - 5′ X 3′ BOX EXTEND LENGTH = 32′
CULVERT OJ-B STA 276+28 2 - 5′ X 3′ BOX LENGTH = 71.8′
RAISED CONCRETE ISLAND
FUTURE CITY ARTERIAL
FARM 3338 ROAD
600′
1620′
300′
830′
PT 251+37.06
PT 242+05.16
PT 260+68.70
PC 282+47.48
BEN F VAUGHAN III REVOCABLE TRUST JAMES CULLEN VAUGHAN GST EXEMPT TRUST RACHEL CATHERINE VAUGHAN GST CATHERINE A PAYER TRUSTEE DANIEL BENJAMIN VAUGHAN GST CATHERINE A PAYER TRUSTEE PATRICK MICHAEL VAUGHAN GST CATHERINE A PAYER TRUSTEE ADDRESS N/A WEBB CO PARCEL ID 474501
PROPOSED TYPICAL SECTION
L-L
INTERSECTION @ FM 3338 STA 274+00
℄ PROPOSED INTERSECTION
200′ PROP PAVEMENT
28′ TURN AROUND
15′ RAISED MEDIAN ISLAND
25′ SHLDR
12′ THRU LANE
14′ THRU LANE
12′ RAISED MEDIAN ISLAND
14′ THRU LANE
12′ THRU LANE
25′ SHLDR
15′ RAISED MEDIAN ISLAND
28′ TURN AROUND
STA = 248+00.00 EL = 536.21′ ex = -3.00′ K = 938 L = 1,500.00′
(+)0.900 % (-)0.700 %
VPC 240+50.00 EL = 529.46
VPT 255+50.00 EL = 530.96
℄ FUTURE INTERSECTION
VPC 277+65.00 EL = 515.46
HW100 = 511.92′
HW100 = 511.10′
FL = 508.87′
(-)0.700 %
VPT 244+00.00 EL = 537.33
(+)2.170 % (-)1.000 %
(+)0.900 % (+)2.170 %
VPC 244+20.00 EL = 537.77
STA = 240+75.00 EL = 530.28′ ex = 1.03′ K = 512 L = 650.00′
STA = 248+45.00 EL = 546.99′ ex = -3.37′ K = 268 L = 850.00′
VPT 252+70.00 EL = 542.74
VPC 270+68.95 EL = 524.75
STA = 280+68.95 EL = 514.75′ ex = 2.50′ K = 1999 L = 2,000.00′
(-)1.000 % (+)0.001 %
FL = 512.33′
240+00
245+00
250+00
255+00
260+00
265+00
270+00
275+00
280+00

DRAFT


42′-250′
VARIES
PROPOSED ROW
4:1
USUAL
6:1
USUAL
300′
600′
285+00
290+00
295+00
300+00
PC 287+16.80
PC 287+81.96
PT 293+79.01
MATCHLINE STA 300+00

BRIDGE CLASS CULVERT OI
3 - 7′X 5′ BOX
LENGTH = 76.3′
BEGIN STA 284+20
END STA 284+49
SKEW=30°
(PROTECTED WITH SETS)

BRIDGE CLASS CULVERT OI-B
3 - 7′X 5′ BOX
LENGTH = 80.5′
BEGIN STA 286+51
END STA 286+77
SKEW=30°
(PROTECTED WITH SETS)


282+65.00
511.96′
.75′
567
1,000.00′
100 %
HW100 =509.97′
HW10=507.54′
502.52′
VPT 287+65.00′
EL. = 511.46
VPC 294+15.00′
EL. = 510.81
STA = 296+65.00
EL = 510.56′
ex = 0.19′
K = 1613
L = 500.00′
(-)0.100 %
(+)0.210 %
VPT 299+15.00′
EL. = 511.09
512.22
509.48
511.94
509.13
511.71
509.16
511.54
508.73
511.43
508.91
511.33
508.78
511.23
508.51
511.13
508.74
511.03
508.91
510.93
509.17
510.83
509.82
510.75
510.20
510.73
510.79
510.78
510.20
510.88
509.58
511.05
508.97
VPT 290+68.95′
EL. = 514.76
℄ = 505.00′
515.87
511.37
515.56
509.50
515.30
508.61
515.10
509.40
514.94
511.92
514.83
513.81
514.77
513.55
514.76
513.58
514.76
513.21
514.76
512.88
514.76
512.73
514.76
512.73
514.76
512.69
514.76
512.56
514.76
512.28
285+00
290+00
295+00
300+00
PROP EL @ ℄
EXIST EL @ ℄
500
510
520
530
540

FM 3338
CSJ: 3532-02-012

PRELIMINARY DESIGN SCHEMATIC
WEBB COUNTY

LIMITS: FM 1472 TO SH 255
PROJECT DESC: WIDENING OF NON-FREEWAY

PROJECT LENGTH: 7.72 MILES
RDWY LENGTH: 7.67 MILES
BRIDGE LENGTH: 0.05 MILES

Texas Department of Transportation

LAREDO DISTRICT

6/19/2020

LAREDO DISTRICT ENGINEER

DIRECTOR OF TRANSPORTATION,
PLANNING & DEVELOPMENT

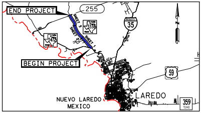
PRELIMINARY - NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION

RYAN JOSEFOVSKY, P.E.	P.E. NUMBER	DATE
	98641	$DATE$

DESIGN SPEED	FUNCTIONAL CLASS	ADT FM 3338
70 MPH	MINOR COLLECTOR	2024 = 2,900 2044 = 4,400

DESIGN DATA
DESIGN CRITERIA: 4R
DESIGN EXCEPTIONS: NONE
SUPERELEVATION e_{max}: 6%

SURVEY DATA
SURFACE COORDINATES
HORIZONTAL DATUM: NAD83
HORIZONTAL ADJUSTMENTS:CSF:1.00003
PROJECT ZONE: TEXAS SOUTH
VERTICAL DATUM: NAVD88
UNITS OF MEASURE: US SURVEY FEET


END PROJECT
255
35
3338
1472
SHEET 3
SHEET 2
SHEET 1
BEGIN PROJECT
59
359
LAREDO
NUEVO LAREDO
MEXICO
N

LOCATION MAP
N.T.S.

PLAN LEGEND

PROPOSED ROW	— · — · —
EXISTING ROW	— — —
EXISTING GAS PIPELINE	GS-1-D
EXISTING WATERLINE	WI-12-D
EXISTING WASTEWATER	WWI-8-D
EXISTING TELECOM	TI-1-D
EXISTING OVERHEAD POWERLINE	EI-1-D
PROPOSED TRAFFIC LANE	➡
EXISTING TRAFFIC LANE	⇨
PARCEL BOUNDARY	———
CULVERT FLOW DIRECTION	⤳
PROPOSED ROADWAY	🟨
PAVEMENT TO BE REMOVED	▦

PRELIMINARY DESIGN SCHEMATIC
SUBJECT TO CHANGE
NOT A BIDDING DOCUMENT

PROFILE LEGEND

PROPOSED FM 3338 PROFILE GRADE LINE (PGL)	———
EXISTING NATURAL GROUND AT PROPOSED FM 3338 CENTERLINE	- - - -
PROPOSED CULVERT CROSSING	▯
EXISTING PIPELINE CROSSING	●

0 100 200
SCALE: 1" = 200′ H
1" = 20′ V

PGAL
TBPE REG.
NO. F-2742

3131 Briarpark Suite 200
Houston, Texas 77042
Phone (713) 622-1444
Fax (713) 968-9333

FM 3338

SCHEMATIC LAYOUT

SHEET 2 OF 3

Texas Department of Transportation

FM 3338

CSJ: 3532-02-012

PRELIMINARY DESIGN SCHEMATIC
WEBB COUNTY

LIMITS: FM 1472 TO SH 255
PROJECT DESC: WIDENING OF NON-FREEWAY

PROJECT LENGTH: 7.72 MILES
RDWY LENGTH: 7.67 MILES
BRIDGE LENGTH: 0.05 MILES

LAREDO DISTRICT

6/19/2020

LAREDO DISTRICT ENGINEER

DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

PRELIMINARY - NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION

RYAN JOSEFOVSKY, P.E.	P.E. NUMBER	DATE
	98641	$DATE$

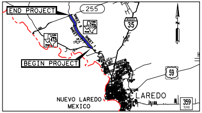
DESIGN SPEED	FUNCTIONAL CLASS	ADT FM 3338
70 MPH	MINOR COLLECTOR	2024 = 2,900 2044 = 4,400

DESIGN DATA

DESIGN CRITERIA: 4R
DESIGN EXCEPTIONS: NONE
SUPERELEVATION e_{MAX}: 6%

SURVEY DATA

SURFACE COORDINATES
HORIZONTAL DATUM: NAD83
HORIZONTAL ADJUSTMENTS: CSF: 1.00003
PROJECT ZONE: TEXAS SOUTH
VERTICAL DATUM: NAVD88
UNITS OF MEASURE: US SURVEY FEET


END PROJECT
255
SHEET 3
SHEET 2
SHEET 1
3338
1472
35
BEGIN PROJECT
59
LAREDO
NUEVO LAREDO
MEXICO
359
N

LOCATION MAP
N.T.S.

PLAN LEGEND

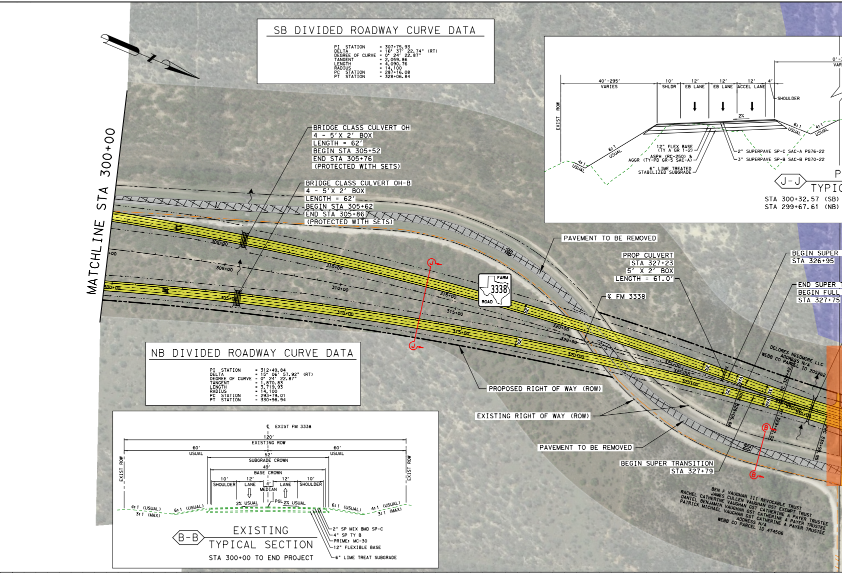
PROPOSED ROW	—— - - —— - -
EXISTING ROW	—— - - —— - -
EXISTING GAS PIPELINE	- - —— G5-1-D
EXISTING WATERLINE	- - —— W1-12-D
EXISTING WASTEWATER	—— WW1-8-D
EXISTING TELECOM	—— T1-1-D ——
EXISTING OVERHEAD POWERLINE	
PROPOSED TRAFFIC LANE	➡
EXISTING TRAFFIC LANE	⇨
PARCEL BOUNDARY	———
CULVERT FLOW DIRECTION	~→
PROPOSED ROADWAY	🟨
PAVEMENT TO BE REMOVED	▨

**PRELIMINARY DESIGN SCHEMATIC
SUBJECT TO CHANGE
NOT A BIDDING DOCUMENT**

PROFILE LEGEND

PROPOSED FM 3338 PROFILE GRADE LINE (PGL)	———
EXISTING NATURAL GROUND AT PROPOSED FM 3338 CENTERLINE	- - - - -
PROPOSED CULVERT CROSSING	⬯ ▯
EXISTING PIPELINE CROSSING	●

0 100 200
SCALE: 1" = 200' H
1" = 20' V

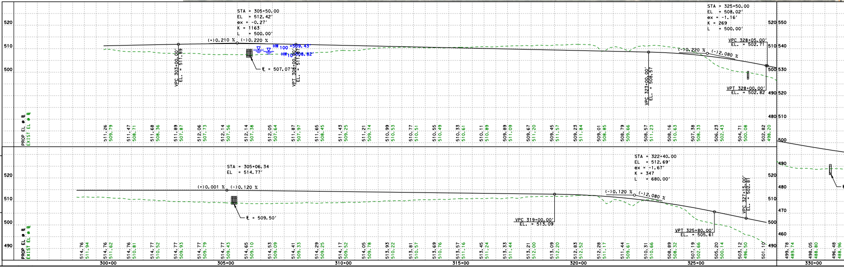

N
MATCHLINE STA 300+00
300+00
305+00
310+00
315+00
320+00
325+00
330+00
FARM 3338 ROAD
2%
VAR
3%
PC 329+42.
PRC 328+06.86
PT 329+42.02
PRC 330+98.95
BRIDGE CLASS CULVERT OH
4 - 5'X 2' BOX
LENGTH = 62'
BEGIN STA 305+52
END STA 305+76
(PROTECTED WITH SETS)
BRIDGE CLASS CULVERT OH-B
4 - 5'X 2' BOX
LENGTH = 62'
BEGIN STA 305+62
END STA 305+86
(PROTECTED WITH SETS)
PAVEMENT TO BE REMOVED
PROP CULVERT
STA 327+23
5' X 2' BOX
LENGTH = 61.0'
℄ FM 3338
BEGIN SUPER
STA 326+95
END SUPER
BEGIN FULL
STA 327+75
PROPOSED RIGHT OF WAY (ROW)
EXISTING RIGHT OF WAY (ROW)
PAVEMENT TO BE REMOVED
BEGIN SUPER TRANSITION
STA 327+79
DELORES NEEDMORE LLC
ADDRESS N/A
WEBB CO PARCEL ID 205262
BEN F VAUGHAN III REVOCABLE TRUST
JAMES CULLEN VAUGHAN GST EXEMPT TRUST
RACHEL CATHERINE VAUGHAN GST CATHERINE A PAYER TRUSTEE
DANIEL BENJAMIN VAUGHAN GST CATHERINE A PAYER TRUSTEE
PATRICK MICHAEL VAUGHAN GST CATHERINE A PAYER TRUSTEE
ADDRESS N/A
WEBB CO PARCEL ID 474506
J
B
EXIST ROW
40'-295' VARIES
10' SHLDR
12' EB LANE
12' EB LANE
12' ACCEL LANE
4'
SHOULDER
0'-
VAR
2%
6:1 USUAL
4:1 USUAL
12" FLEX BASE (TY A GR 1-2)
ASPH (RC-250) & AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED STABILIZED SUBGRADE
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22
J-J
P
TYPIC
STA 300+32.57 (SB)
STA 299+67.61 (NB)
℄ EXIST FM 3338
120'
EXISTING ROW
60' USUAL
60' USUAL
52'
SUBGRADE CROWN
49'
BASE CROWN
10' SHOULDER
12' LANE
4' MEDIAN
12' LANE
10' SHOULDER
EXIST ROW
EXIST ROW
2% USUAL
PGL
2% USUAL
4:1 (USUAL)
3:1 (MAX)
6:1 (USUAL)
6:1 (USUAL)
4:1 (USUAL)
3:1 (MAX)
2" SP MIX BMD SP-C
4" SP TY B
PRIME: MC-30
12" FLEXIBLE BASE
6" LIME TREAT SUBGRADE
B-B
EXISTING
TYPICAL SECTION
STA 300+00 TO END PROJECT

SB DIVIDED ROADWAY CURVE DATA

PI STATION = 307+75.93
DELTA = 16° 37' 22.74" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 2,059.86
LENGTH = 4,090.76
RADIUS = 14,100
PC STATION = 287+16.08
PT STATION = 328+06.84

NB DIVIDED ROADWAY CURVE DATA

PI STATION = 312+49.84
DELTA = 15° 06' 57.92" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 1,870.83
LENGTH = 3,719.93
RADIUS = 14,100
PC STATION = 293+79.01
PT STATION = 330+98.94



PROP EL @ ℄	511.26	511.47	511.68	511.89	512.06	512.14	512.14	512.05	511.87	511.65	511.43	511.21	510.99	510.77	510.55	510.33	510.11	509.89	509.67	509.45	509.23	509.01	508.79	508.57	508.16	507.38	506.23	504.71	502.82
EXIST EL @ ℄	509.79	508.71	508.36	507.87	507.73	507.56	507.38	507.64	507.97	508.45	509.25	509.74	510.53	510.51	510.49	510.61	510.89	511.09	511.20	511.57	511.84	508.85	509.66	511.23	510.63	508.33	502.43	500.08	498.20

PROP EL @ ℄	514.76	514.76	514.76	514.77	514.77	514.77	514.77	514.65	514.53	514.41	514.29	514.17	514.05	513.93	513.81	513.69	513.57	513.45	513.33	513.21	513.09	512.83	512.28	511.44	510.31	508.89	507.19	505.20	503.12	501.10	499.78	498.05	496.48
EXIST EL @ ℄	511.94	511.62	510.81	510.52	509.93	509.79	509.43	509.10	509.09	509.33	509.25	509.52	509.78	510.22	510.57	510.76	511.16	511.24	511.44	512.00	512.20	512.52	511.17	509.61	510.66	508.32	502.66	500.14	496.50		489.74	488.80	488.96

PGAL

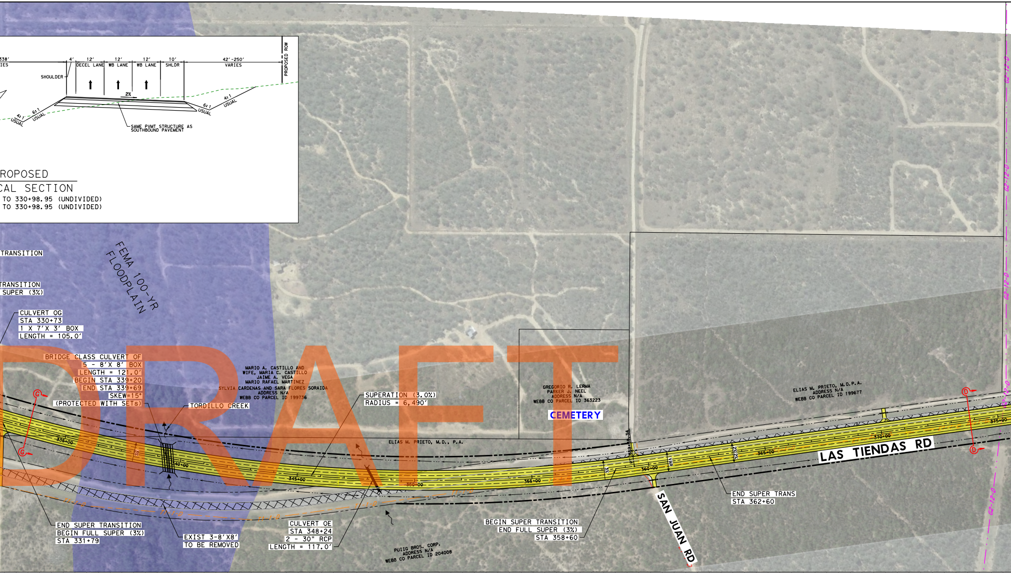
3131 Briarpark Suite 200
Houston, Texas 77042
Phone (713) 622-1444
Fax (713) 968-9333

TBPE REG.
NO. F-2742

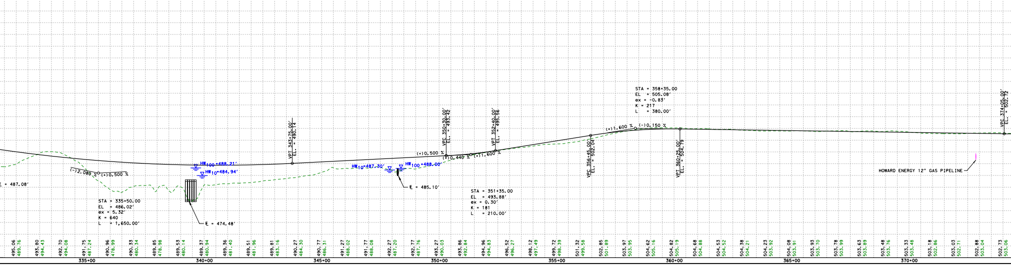
FM 3338

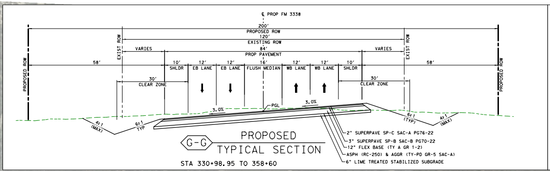
SCHEMATIC LAYOUT

SHEET 3 OF 3


338'
IES
4'
12'
DECEL LANE
12'
WB LANE
12'
WB LANE
10'
SHLDR
42'-250'
VARIES
PROPOSED ROW
SHOULDER
2%
4:1 USUAL
6:1 USUAL
6:1 USUAL
4:1 USUAL
SAME PVMT STRUCTURE AS SOUTHBOUND PAVEMENT
ROPOSED
CAL SECTION
TO 330+98.95 (UNDIVIDED)
TO 330+98.95 (UNDIVIDED)
TRANSITION
TRANSITION
SUPER (3%)
FEMA 100-YR FLOODPLAIN
CULVERT OG
STA 330+73
1 X 7'X 3' BOX
LENGTH = 105.0'
BRIDGE CLASS CULVERT OF
5 - 8'X 8' BOX
LENGTH = 121.0'
BEGIN STA 339+20
END STA 339+69
SKEW=15°
(PROTECTED WITH SETs)
TORDILLO CREEK
MARIO A. CASTILLO AND
WIFE, MARIA C. CASTILLO
JAIME A. VEGA
MARIO RAFAEL MARTINEZ
SYLVIA CARDENAS AND SARA FLORES SORAIDA
ADDRESS N/A
WEBB CO PARCEL ID 199736
SUPERATION (3.0%)
RADIUS = 6,490'
GREGORIO R. LERMA
PARKER J. NEEL
ADDRESS N/A
WEBB CO PARCEL ID 363223
CEMETERY
ELIAS M. PRIETO, M.D., P.A.
ELIAS M. PRIETO, M.D.P.A.
ADDRESS N/A
WEBB CO PARCEL ID 199677
335+00
340+00
345+00
350+00
355+00
360+00
365+00
370+00
375+00
3%
LAS TIENDAS RD
SAN JUAN RD
END SUPER TRANS
STA 362+60
END SUPER TRANSITION
BEGIN FULL SUPER (3%)
STA 331+79
EXIST 3-8'X8'
TO BE REMOVED
CULVERT OE
STA 348+24
2 - 30" RCP
LENGTH = 117.0'
BEGIN SUPER TRANSITION
END FULL SUPER (3%)
STA 358+60
PUIIG BROS. CORP.
ADDRESS N/A
WEBB CO PARCEL ID 204008

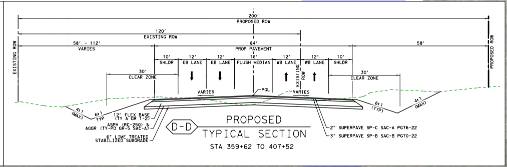
DRAFT


E = 487.08'
(-)2.080 %
(+)0.500 %
STA = 335+50.00
EL = 486.02'
ex = 5.32'
K = 640
L = 1,650.00'
HW100=488.21'
HW10=484.94'
℄ = 474.48'
VPT 343+75.00'
EL. = 490.14
HW10=487.30'
HW100=488.00'
℄ = 485.10'
(+)0.500 %
VPC 350+30.00'
EL. = 493.42
(+)0.440 %
(+)1.600 %
VPT 352+40.00'
EL. = 495.56
STA = 351+35.00
EL = 493.88'
ex = 0.30'
K = 181
L = 210.00'
VPC 356+45.00'
EL. = 502.04
(+)1.600 %
(-)0.150 %
STA = 358+35.00
EL = 505.08'
ex = -0.83'
K = 217
L = 380.00'
VPT 360+25.00'
EL. = 504.79
HOWARD ENERGY 12" GAS PIPELINE
VPC 374+05.00'
EL. = 502.72
495.06 489.76
493.80 494.43
492.70 494.08
491.75 487.24
490.96 478.99
490.33 480.34
489.85 478.98
489.53 480.14
489.37 480.94
489.36 481.40
489.51 481.96
489.81 483.16
490.27 484.30
490.77 486.31
491.27 488.02
491.77 488.08
492.27 487.20
492.77 487.76
493.27 490.03
493.86 492.84
494.96 494.83
496.52 496.27
498.12 497.49
499.72 498.39
501.32 499.58
502.85 501.89
503.97 503.95
504.62 505.16
504.82 505.19
504.68 504.88
504.53 504.52
504.38 504.21
504.23 503.92
504.08 503.91
503.93 503.70
503.78 503.99
503.63 503.89
503.48 503.76
503.33 503.48
503.18 502.86
503.03 502.71
502.88 503.04
502.73 503.06
335+00
340+00
345+00
350+00
355+00
360+00
365+00
370+00


℄ PROP FM 3338
200'
PROPOSED ROW
120'
EXISTING ROW
84'
PROP PAVEMENT
PROPOSED ROW
EXIST ROW
VARIES
58'
10'
SHLDR
12'
EB LANE
12'
EB LANE
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
30'
CLEAR ZONE
3.0%
3.0%
PGL
4:1
(MAX)
6:1
TYP
6:1
(TYP)
4:1
(MAX)
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22
12" FLEX BASE (TY A GR 1-2)
ASPH (RC-250) & AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED STABILIZED SUBGRADE

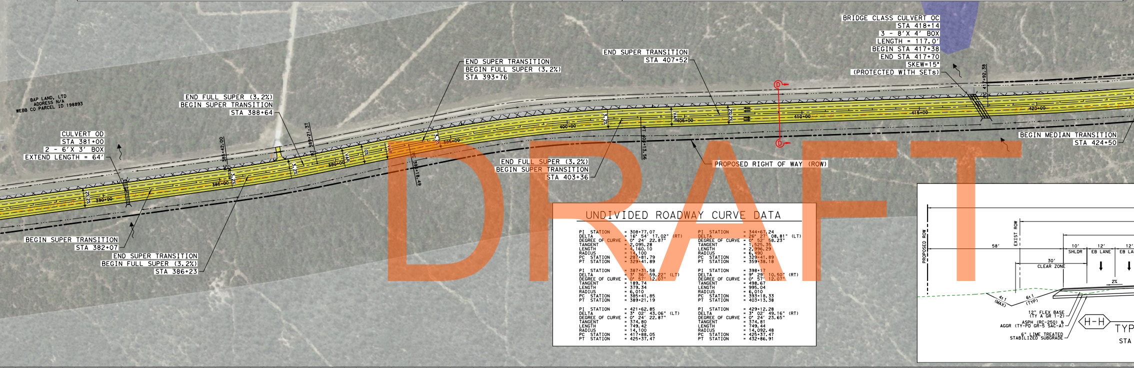
G-G PROPOSED TYPICAL SECTION

STA 330+98.95 TO 358+60


200'
PROPOSED ROW
120'
EXISTING ROW
84'
PROP PAVEMENT
58' - 112'
VARIES
58'
EXISTING ROW
PROPOSED ROW
10'
SHLDR
12'
EB LANE
12'
EB LANE
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
30'
CLEAR ZONE
VARIES
PGL
EXISTING ROW
4:1
(MAX)
6:1
TYP
6:1
(TYP)
4:1
(MAX)
12" FLEX BASE (TY A GR 1-2)
ASPH (RC-250) & AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED STABILIZED SUBGRADE
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22

D-D PROPOSED TYPICAL SECTION

STA 359+62 TO 407+52


BAP LAND, LTD
ADDRESS N/A
WEBB CO PARCEL ID 198893
CULVERT OD
STA 381+00
2 - 6'X 3' BOX
EXTEND LENGTH = 64'
END FULL SUPER (3.2%)
BEGIN SUPER TRANSITION
STA 388+64
END SUPER TRANSITION
BEGIN FULL SUPER (3.2%)
STA 393+76
END SUPER TRANSITION
STA 407+52
BRIDGE CLASS CULVERT OC
STA 418+14
3 - 8'X 4' BOX
LENGTH = 117.0'
BEGIN STA 417+38
END STA 417+70
SKEW=15°
(PROTECTED WITH SETs)
BEGIN MEDIAN TRANSITION
STA 424+50
PROPOSED RIGHT OF WAY (ROW)
END FULL SUPER (3.2%)
BEGIN SUPER TRANSITION
STA 403+36
BEGIN SUPER TRANSITION
STA 382+07
END SUPER TRANSITION
BEGIN FULL SUPER (3.2%)
STA 386+23
PC 385+42.00
PT 389+21.37
PC 393+18.49
PT 403+13.56
PC 417+92.38
380+00
385+00
390+00
395+00
400+00
405+00
410+00
415+00
420+00
VAR
3.2%
D
D
58'
EXIST ROW
PROPOSED ROW
10'
SHLDR
12'
EB LANE
12'
EB LAN
30'
CLEAR ZONE
2%
4:1
(MAX)
6:1
(TYP)
12" FLEX BASE (TY A GR 1-2)
ASPH (RC-250) & AGGR (TY-PD GR-5 SAC-A)
6" LIME TREATED STABILIZED SUBGRADE
H-H
TYP
STA
DRAFT

UNDIVIDED ROADWAY CURVE DATA

PI STATION = 308+77.07
DELTA = 16° 54' 17.02" (RT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 2,095.28
LENGTH = 4,160.10
RADIUS = 14,100
PC STATION = 287+81.79
PT STATION = 329+41.89

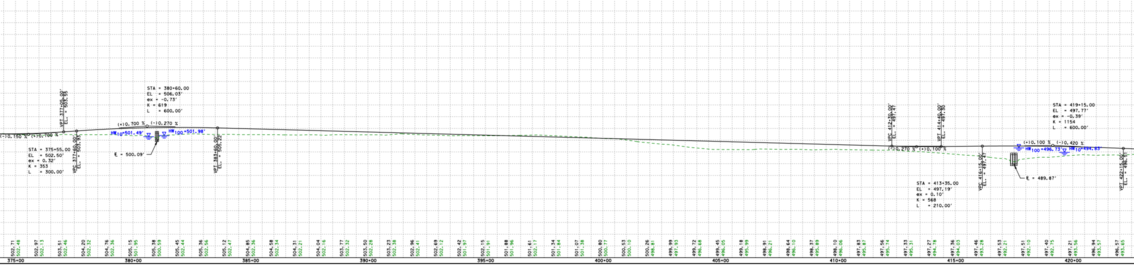
PI STATION = 387+31.58
DELTA = 3° 36' 59.22" (LT)
DEGREE OF CURVE = 0° 57' 12.07"
TANGENT = 189.74
LENGTH = 379.34
RADIUS = 6,010
PC STATION = 385+41.85
PT STATION = 389+21.19

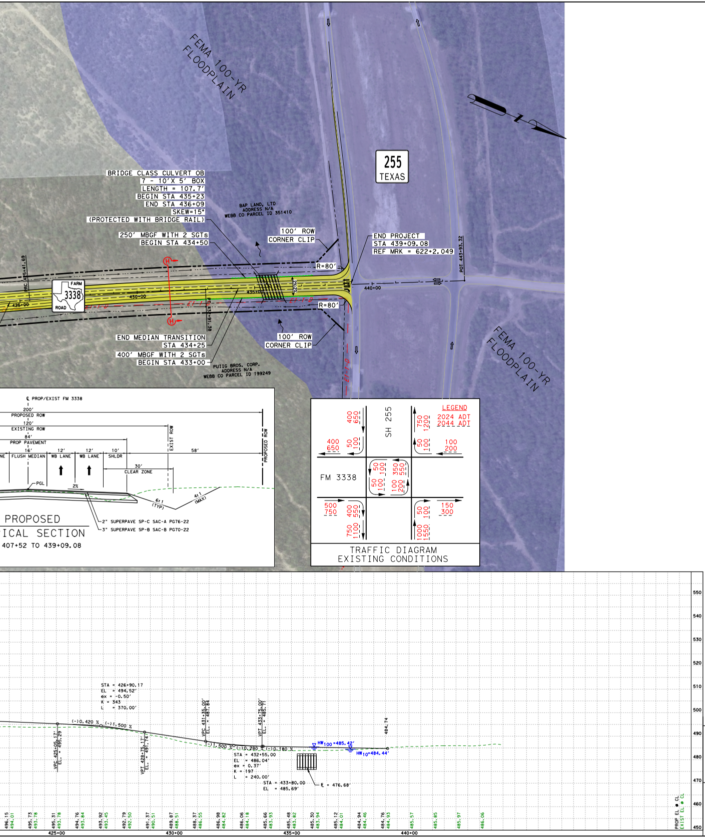
PI STATION = 421+62.85
DELTA = 3° 02' 43.06" (LT)
DEGREE OF CURVE = 0° 24' 22.87"
TANGENT = 374.80
LENGTH = 749.42
RADIUS = 14,100
PC STATION = 417+88.05
PT STATION = 425+37.47

PI STATION = 344+67.24
DELTA = 26° 27' 08.81" (LT)
DEGREE OF CURVE = 0° 52' 58.23"
TANGENT = 1,525.35
LENGTH = 2,996.29
RADIUS = 6,490
PC STATION = 329+41.89
PT STATION = 359+38.18

PI STATION = 398+17
DELTA = 9° 29' 10.50" (RT)
DEGREE OF CURVE = 0° 57' 12.07"
TANGENT = 498.67
LENGTH = 995.04
RADIUS = 6,010
PC STATION = 393+18.33
PT STATION = 403+13.38

PI STATION = 429+12.28
DELTA = 3° 02' 49.16" (RT)
DEGREE OF CURVE = 0° 24' 23.65"
TANGENT = 374.81
LENGTH = 749.44
RADIUS = 14,092.48
PC STATION = 425+37.47
PT STATION = 432+86.91


(-)0.150 %
(+)0.700 %
VPT 377+05.00'
EL. = 503.55
VPC 377+60.00'
EL. = 503.93
STA = 375+55.00
EL = 502.50'
ex = 0.32'
K = 353
L = 300.00'
STA = 380+60.00
EL = 506.03'
ex = -0.73'
K = 619
L = 600.00'
(+)0.700 %
(-)0.270 %
HW10=501.49'
HW100=501.98'
FL = 500.09'
VPT 383+60.00'
EL. = 505.22
VPC 412+30.00'
EL. = 497.47
VPT 414+40.00'
EL. = 497.30
(-)0.270 %
(+)0.100 %
STA = 413+35.00
EL = 497.19'
ex = 0.10'
K = 568
L = 210.00'
VPC 416+15.00'
EL. = 497.47
(+)0.100 %
(-)0.420 %
HW100=496.73'
HW10=494.83'
FL = 489.87'
STA = 419+15.00
EL = 497.77'
ex = -0.39'
K = 1154
L = 600.00'
VPT 422+15.00'
EL. = 496.51
502.71 502.48
502.97 502.13
503.51 502.46
504.20 502.32
504.76 502.36
505.15 501.95
505.38 500.59
505.45 502.44
505.36 502.56
505.12 502.47
504.85 502.36
504.58 502.34
504.31 502.21
504.04 502.16
503.77 502.32
503.50 502.28
503.23 502.38
502.96 502.41
502.69 502.12
502.42 501.97
502.15 501.91
501.88 501.96
501.61 502.17
501.34 501.84
501.07 501.38
500.80 500.77
500.53 500.10
500.26 498.81
499.99 497.93
499.72 496.68
499.45 496.05
499.18 495.99
498.91 496.21
498.64 496.10
498.37 495.89
498.10 496.06
497.83 495.87
497.56 495.74
497.33 495.31
497.27 494.78
497.36 494.03
497.46 493.28
497.53 492.21
497.51 492.10
497.40 492.75
497.21 493.56
496.94 493.57
496.57 493.65
375+00
380+00
385+00
390+00
395+00
400+00
405+00
410+00
415+00
420+00


FEMA 100-YR FLOODPLAIN
BRIDGE CLASS CULVERT OB
7 - 10'X 5' BOX
LENGTH = 107.7'
BEGIN STA 435+23
END STA 436+09
SKEW=15°
(PROTECTED WITH BRIDGE RAIL)
250' MBGF WITH 2 SGTs
BEGIN STA 434+50
BAP LAND, LTD
ADDRESS N/A
WEBB CO PARCEL ID 351410
100' ROW
CORNER CLIP
R=80'
END PROJECT
STA 439+09.08
REF MRK = 622+2.049
255
TEXAS
POT 443+93.32
440+00
430+00
425+00
435+00
FARM
3338
ROAD
END MEDIAN TRANSITION
STA 434+25
400' MBGF WITH 2 SGTs
BEGIN STA 433+00
PUIG BROS. CORP.
ADDRESS N/A
WEBB CO PARCEL ID 199249
100' ROW
CORNER CLIP
R=80'
FEMA 100-YR FLOODPLAIN
℄ PROP/EXIST FM 3338
200'
PROPOSED ROW
120'
EXISTING ROW
84'
PROP PAVEMENT
16'
FLUSH MEDIAN
12'
WB LANE
12'
WB LANE
10'
SHLDR
EXIST ROW
58'
PROPOSED ROW
30'
CLEAR ZONE
PGL
2%
6:1 (TYP)
4:1 (MAX)
2" SUPERPAVE SP-C SAC-A PG76-22
3" SUPERPAVE SP-B SAC-B PG70-22
PROPOSED
ICAL SECTION
407+52 TO 439+09.08
LEGEND
2024 ADT
2044 ADT
SH 255
FM 3338
400 650
750 1200
400 650
50 100
100 200
50 100
350 550
50 100
100 200
500 750
400 550
50 100
150 300
750 1100
1000 1550
TRAFFIC DIAGRAM
EXISTING CONDITIONS
STA = 426+90.17
EL = 494.52'
ex = -0.50'
K = 343
L = 370.00'
(-)0.420 %
(-)1.500 %
VPC 425+05.17' EL. = 495.29
VPT 428+75.17' EL. = 491.74
VPC 431+35.00' EL. = 487.84
VPT 433+75.00' EL. = 485.71
(-)1.500 %
(-)0.280 %
(-)0.180 %
STA = 432+55.00
EL = 486.04'
ex = 0.37'
K = 197
L = 240.00'
STA = 433+80.00
EL = 485.69'
℄ = 476.68'
HW100 = 485.42'
HW10 = 484.44'
484.74
550
540
530
520
510
500
490
480
470
460
450
496.15 494.01
495.73 493.78
495.31 493.78
494.76 493.84
493.92 493.45
492.79 492.50
491.37 490.51
489.87 488.51
488.37 486.55
486.98 484.82
486.06 484.18
485.66 483.93
485.48 483.82
485.30 483.94
485.12 484.01
484.94 484.46
484.76 484.93
485.57
485.85
485.97
486.06
PROP EL @ CL
EXIST EL @ CL
425+00
430+00
435+00
440+00

FM 3338

CSJ: 3532-02-012

PRELIMINARY DESIGN SCHEMATIC
WEBB COUNTY

LIMITS: FM 1472 TO SH 255
PROJECT DESC: WIDENING OF NON-FREEWAY

PROJECT LENGTH: 7.72 MILES
RDWY LENGTH: 7.67 MILES
BRIDGE LENGTH: 0.05 MILES

Texas Department of Transportation

LAREDO DISTRICT

6/19/2020

LAREDO DISTRICT ENGINEER

DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

PRELIMINARY - NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION

	98641	$DATE$
RYAN JOSEFOVSKY, P.E.	P.E. NUMBER	DATE

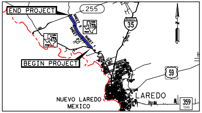
DESIGN SPEED
70 MPH

FUNCTIONAL CLASS
MINOR COLLECTOR

ADT FM 3338
2024 = 2,900
2044 = 4,400

DESIGN DATA
DESIGN CRITERIA: 4R
DESIGN EXCEPTIONS: NONE
SUPERELEVATION e_{MAX}: 6%

SURVEY DATA
SURFACE COORDINATES
HORIZONTAL DATUM: NAD83
HORIZONTAL ADJUSTMENTS:CSF:1.00003
PROJECT ZONE: TEXAS SOUTH
VERTICAL DATUM: NAVD88
UNITS OF MEASURE: US SURVEY FEET


END PROJECT
255
35
BEGIN PROJECT
SHEET 1
SHEET 2
SHEET 3
3338
1472
59
NUEVO LAREDO
MEXICO
LAREDO
359
N

LOCATION MAP
N.T.S.

PLAN LEGEND

PROPOSED ROW	━━ ‒ ‒ ━━ ‒ ‒
EXISTING ROW	—— - - —— - -
EXISTING GAS PIPELINE	- - —— G5-1-D
EXISTING WATERLINE	· - —— W1-12-D ·
EXISTING WASTEWATER	—— WW1-8-D ·
EXISTING TELECOM	· —— T1-1-D ——
EXISTING OVERHEAD POWERLINE	—— E1-1-D ——
PROPOSED TRAFFIC LANE	➡
EXISTING TRAFFIC LANE	⇨
PARCEL BOUNDARY	——
CULVERT FLOW DIRECTION	∼➤
PROPOSED ROADWAY	🟨
PAVEMENT TO BE REMOVED	▦

PRELIMINARY DESIGN SCHEMATIC
SUBJECT TO CHANGE
NOT A BIDDING DOCUMENT

PROFILE LEGEND

PROPOSED FM 3338 PROFILE GRADE LINE (PGL)	——
EXISTING NATURAL GROUND AT PROPOSED FM 3338 CENTERLINE	- - - - -
PROPOSED CULVERT CROSSING	⬯ ▯
EXISTING PIPELINE CROSSING	●

0 100 200
SCALE: 1" = 200' H
1" = 20' V

PGAL

3131 Briarpark Suite 200
Houston, Texas 77042
Phone (713) 622-1444
Fax (713) 968-9333

TBPE REG.
NO. F-2742

FM 3338

SCHEMATIC LAYOUT

SHEET 3 OF 3