ROCKWALL COUNTY

PRELIMINARY DESIGN SCHEMATIC

Texas Department of Transportation

©2019 by Texas Department of Transportation; all rights reserved

DALLAS DISTRICT
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

FM 549

FROM SH 205 TO SH 276
CSJ NO. 1015-01-024

ROADWAY = 10,780.73 FT = 2.042 MI
BRIDGE = 200 FT = 0.038 MI
NET LENGTH OF PROJECT = 10,980.73 FT = 2.080 MI

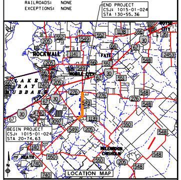
FM 549
FUNCTIONAL CLASS: MINOR ARTERIAL

DESIGN SPEED: 45 MPH

PROJECTED ADT (2015): 5,200
PROJECTED ADT (2035): 8,100
TRAFFIC SOURCE: TXDOT, TP&P MEMO FEBRUARY 5, 2010

FM 1139
DESIGN SPEED: 30 MPH

EXIST FM 549
DESIGN SPEED: 30 MPH
EQUATIONS: NONE
RAILROADS: NONE
EXCEPTIONS: NONE


END PROJECT
CSJ: 1015-01-024
STA 130+55.36
BEGIN PROJECT
CSJ: 1015-01-024
STA 20+74.63
ROCKWALL
FATE
LAKE RAY HUBBARD
HEATH
ROYSE CITY
McLENDON CHISHOLM
MOBILE CITY
205
552
549
1138
66
30
35
1141
2453
548
551
67
740
276
3097
1139
550
1140
N

LOCATION MAP

HORIZONTAL AND VERTICAL CONTROL DATUM

PROJECT: FM 549
TXDOT
DATES SURVEYED: 08-22-2018
COORDINATE SYSTEM: TEXAS NORTH CENTRAL
HORIZONTAL DATUM: NAD 83, SURFACE
VERTICAL DATUM: NAVD 88
UNITS: U.S. SURVEY FEET

SCALE:

200' 100' 0 200'

SCALE: HORIZONTAL 1"= 200'

20' 10' 0 20'

SCALE: VERTICAL 1"= 20'

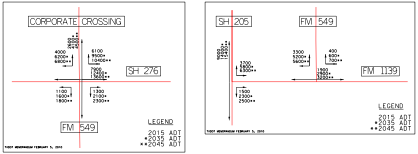
DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION #8996
3030 LBJ FREEWAY, STE 910 DALLAS, TX 75234 (972) 239-2002

PRELIMINARY SUBJECT TO CHANGE

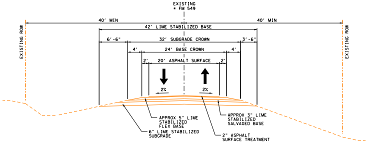
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF DANIEL W. EVERETT, P.E. 93551. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES. DATE: 3/8/2019

ROLL 1 OF 1

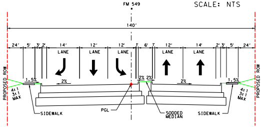
STATUS:
USER:
FILE: c:\projectwise\dannenbaum\workdir\everett\dms99570\453201scn01.dgn
DATE: 3/8/2019


CORPORATE CROSSING
SH 276
FM 549
2600
4100*
4500**
4000
6200*
6800**
6100
9500*
10400**
7900
12400*
13600**
1100
1600*
1800**
1300
2100*
2300**
LEGEND
2015 ADT
*2035 ADT
**2045 ADT
TXDOT MEMORANDUM FEBRUARY 5, 2010
SH 205
FM 549
FM 1139
9000
14000*
15400**
3700
5800*
6300**
3300
5200*
5600**
400
600*
700**
1900
2900*
3200**
1500
2300*
2500**
LEGEND
2015 ADT
*2035 ADT
**2045 ADT
TXDOT MEMORANDUM FEBRUARY 5, 2010

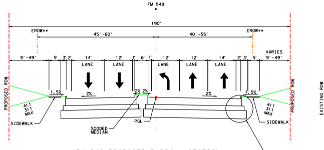
TRAFFIC DIAGRAMS
SCALE: NTS


EXISTING
FM 549
40' MIN
40' MIN
EXISTING ROW
EXISTING ROW
42' LIME STABILIZED BASE
6'-6"
32' SUBGRADE CROWN
3'-6"
4'
24' BASE CROWN
4'
2'
20' ASPHALT SURFACE
2'
2%
2%
APPROX 5" LIME STABILIZED FLEX BASE
6" LIME STABILIZED SUBGRADE
APPROX 3" LIME STABILIZED SALVAGED BASE
2" ASPHALT SURFACE TREATMENT

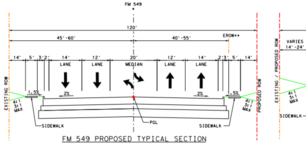
FM 549 EXISTING TYPICAL SECTION
N.T.S.
STA 42+00.00 - STA 133+64.08


FM 549
140'
24'
5'
3' 2'
14'
12'
12'
6'
1'
12'
14'
2' 3'
5'
24'
LANE
LANE
LANE
LANE
LANE
2%
2%
2%
2%
1.5%
1.5%
PROPOSED ROW
PROPOSED ROW
4:1
3:1
MAX
SIDEWALK
PGL
SODDED MEDIAN
SIDEWALK

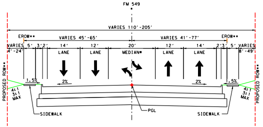
FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA 20+74.63 - STA 25+38.77


FM 549
190'
EROW**
45'-60'
40'-55'
EROW**
9'-49'
5'
3' 2'
14'
12'
1'
6'
1'
12'
12'
14'
2' 3'
5'
VARIES
9'-49'
LANE
LANE
LANE
LANE
LANE
2%
2%
2%
2%
1.5%
1.5%
PROPOSED ROW
PROPOSED ROW
4:1
3:1
MAX
SIDEWALK
SODDED MEDIAN
PGL
SIDEWALK
SEE DETAIL A

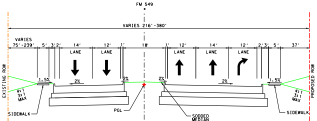
FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA 32+35.00 - STA 35+48.82


FM 549
120'
45'-60'
40'-55'
EROW**
14'
5'
3' 2'
14'
12'
20'
12'
14'
2' 3'
5'
14'
LANE
LANE
MEDIAN
LANE
LANE
2%
2%
1.5%
1.5%
EXISTING ROW
PROPOSED ROW
EXISTING / PROPOSED ROW
4:1
3:1
MAX
SIDEWALK
PGL
SIDEWALK
VARIES
14'-24'

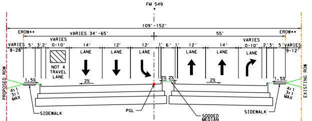
FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA 46+99.02 TO STA 56+73.32 **EXISTING ROW ON LT
STA 57+81.62 TO STA 68+80.26 **EXISTING ROW ON LT
STA 117+51.63 TO STA 120+99.89**EXISTING ROW ON LT/RT-NO PROPOSED ROW


FM 549
VARIES 110'-205'
EROW**
VARIES 45'-65'
VARIES 41'-77'
EROW**
VARIES
4'-24'
5'
3' 2'
14'
12'
20'
12'
14'
2' 3'
5'
VARIES
8'-49'
LANE
LANE
MEDIAN*
LANE
LANE
2%
2%
1.5%
1.5%
PROPOSED ROW**
PROPOSED ROW**
4:1
3:1
MAX
SIDEWALK
PGL
SIDEWALK

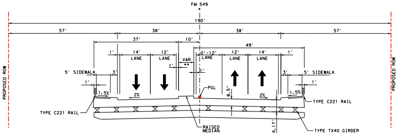
FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA 44+37.95 TO STA 46+99.02 **EXISTING ROW RT-STA 44+37.95 TO STA 45+46.17
STA 56+73.32 TO STA 57+07.40 **EXISTING ROW LT-STA 56+73.32 TO STA 57+07.40
STA 57+07.40 TO STA 57+81.62 **EXISTING ROW LT-STA 57+43.88 TO STA 57+81.62
STA 68+80.26 TO STA 69+98.29 **EXISTING ROW LT-STA 68+80.26 TO STA 69+32.09
STA 75+07.42 TO STA 77+67.53
STA 85+47.91 TO STA 86+38.93
STA 103+59.89 TO STA 104+55.70 **EXISTING ROW RT-STA 103+59.89 TO STA 103+85.30
STA 116+50.64 TO STA 117+51.63 **EXISTING ROW ON LT


FM 549
VARIES 216'-380'
VARIES
75'-239'
5'
3' 2'
14'
12'
1'
18'
1'
12'
14'
12'
2' 3'
5'
37'
LANE
LANE
LANE
LANE
LANE
2%
2%
2%
2%
1.5%
1.5%
EXISTING ROW
PROPOSED ROW
4:1
3:1
MAX
SIDEWALK
PGL
SODDED MEDIAN
SIDEWALK

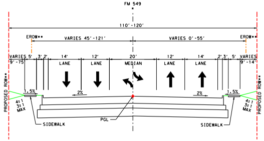
FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA 35+48.82 - STA 39+89.87


FM 549
109'-152'
EROW**
VARIES 34'-65'
55'
EROW**
VARIES
8'-28'
5'
3' 2'
VARIES
0-10'
14'
12'
12'
1'
6'
1'
12'
14'
VARIES
0-10'
2' 3'
5'
VARIES
9-12'
NOT A TRAVEL LANE
LANE
LANE
LANE
LANE
LANE
LANE
2%
2%
2%
2%
1.5%
1.5%
PROPOSED ROW
EXISTING ROW
4:1
3:1
MAX
SIDEWALK
PGL
SODDED MEDIAN
SIDEWALK

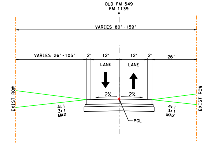
FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA. 127+24.65 - STA. 130+55.36**EXISTING ROW RT-STA 127+99.24 TO STA 130+55.36/
EXISTING ROW LT-STA 127+24.65 TO STA 128+32.79


FM 549
190'
57'
38'
38'
57'
37'
10'
49'
1'
14'
12'
VAR
0'-12'
12'
14'
1'
LANE
LANE
LANE
LANE
LANE
**
1'
5' SIDEWALK
3'
3'
5' SIDEWALK
1'
1'
1.5%
2%
2%
1.5%
PGL
8.5'
4.17'
PROPOSED ROW
PROPOSED ROW
TYPE C221 RAIL
TYPE C221 RAIL
RAISED MEDIAN
TYPE TX40 GIRDER

FM 549 PROPOSED BRIDGE TYPICAL SECTION
N.T.S.
STA 30+35.00 - STA 32+35.00 **RAISED MEDIAN VARIES FROM 18' TO 6'
3 SPANS AT 200'

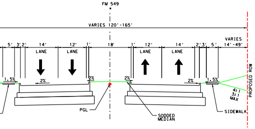

FM 549
110'-120'
EROW**
VARIES 45'-121'
VARIES 0'-55'
EROW**
VARIES
9'-75'
5'
3' 2'
14'
12'
20'
12'
14'
2' 3'
5'
VARIES
9'-14'
LANE
LANE
MEDIAN
LANE
LANE
2%
2%
1.5%
1.5%
PROPOSED ROW**
PROPOSED ROW**
4:1
3:1
MAX
SIDEWALK
PGL
SIDEWALK

FM 549 PROPOSED TYPICAL SECTION
N.T.S.
STA 39+89.87 TO STA 44+37.95 **EXISTING ROW LT-STA 39+89.87 TO STA 42+69.39
STA 69+98.29 TO STA 75+07.42 **EXISTING ROW LT-STA 69+98.29 TO STA 74+35.92
STA 77+67.53 TO STA 85+47.91
STA 86+38.93 TO STA 92+39.63 **EXISTING ROW RT-STA 88+02.14 TO STA 92+39.63
STA 92+39.63 TO STA 103+59.89 **EXISTING ROW RT-STA STA 95+37.36 TO STA 103+59.89
STA 98+82.60 TO STA 103+82.08 **EXISTING ROW ON RT
STA 104+55.70 TO STA 115+29.25
STA 115+29.25 TO STA 116+50.64 **EXISTING ROW LT-STA 115+29.25 TO STA 116+50.64/ON RT


OLD FM 549
FM 1139
VARIES 80'-159'
VARIES 26'-105'
2'
12'
12'
2'
26'
LANE
LANE
2%
2%
EXIST ROW
EXIST ROW
4:1
3:1
MAX
4:1
3:1
MAX
PGL

PROPOSED FM 1139/OLD FM 549 CONNECTOR TYPICAL SECTION

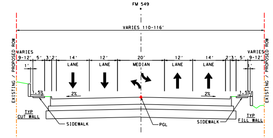
N.T.S.


FM 549
VARIES 120'-165'
5'
3'
2'
14'
12'
1'
18'
1'
12'
14'
2'
3'
5'
VARIES
14'-49'
LANE
LANE
LANE
LANE
1.5%
2%
2%
2%
2%
1.5%
PROPOSED ROW
4:1
3:1
MAX
PGL
SODDED MEDIAN
SIDEWALK

FM 549 PROPOSED TYPICAL SECTION

N.T.S.

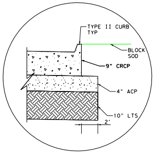
STA 25+38.77 STA 30+35.00
STA 120+99.89 TO STA 127+24.65 **EXISTING ROW ON LT/RT-NO PROPOSED ROW


FM 549
VARIES 110-116'
VARIES
9-12'
5'
3'
2'
14'
12'
20'
12'
14'
2'
3'
5'
VARIES
9-12'
1'
1'
LANE
LANE
MEDIAN
LANE
LANE
1.5%
2%
2%
1.5%
EXISTING / PROPOSED ROW
EXISTING / PROPOSED ROW
TYP
CUT WALL
TYP
FILL WALL
SIDEWALK
PGL
SIDEWALK

FM 549 PROPOSED RETAINING WALL LOCATIONS

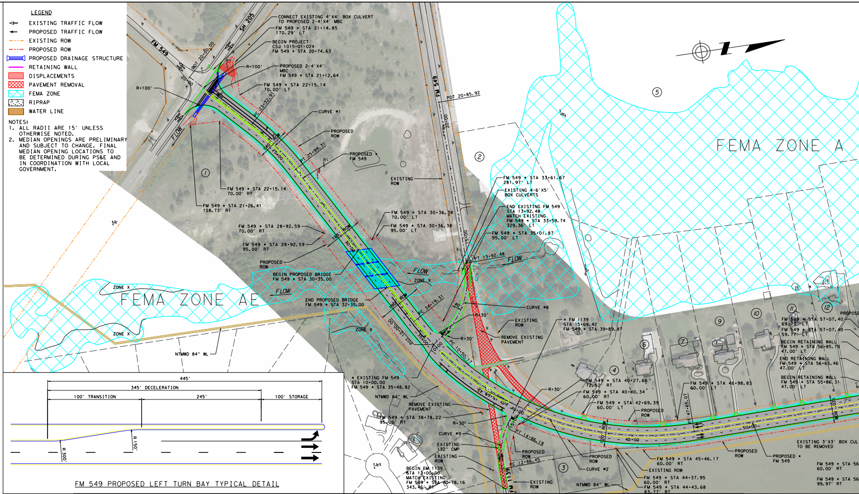
N.T.S.

SOUTHBOUND LANE WALL	NORTHBOUND LANE WALL
STA 55+86.31 - STA 57+80.61	STA 75+75.87 - STA 77+64.95
STA 65+24.54 - STA 67+61.74	STA 88+50.00 - STA 90+14.10
STA 69+40.00 - STA 70+70.00	STA 99+33.08 - STA 100+00.00
STA 71+30.00 - STA 77+40.00	
STA 82+60.00 - STA 86+79.99	


TYPE II CURB
TYP
BLOCK
SOD
9" CRCP
4" ACP
10" LTS
2'

DETAIL A

FINAL PAVEMENT DESIGN PENDING



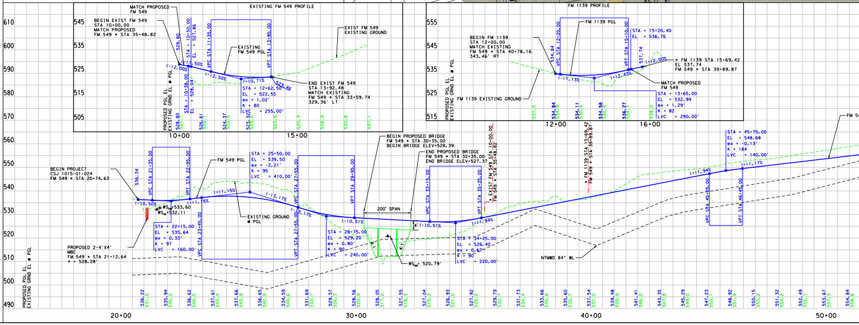
LEGEND

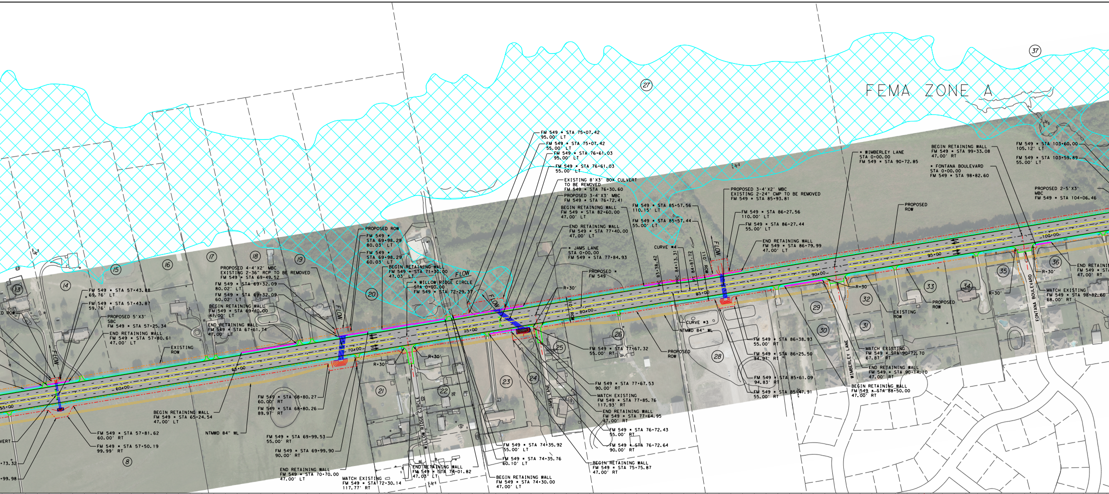
- ⇽ EXISTING TRAFFIC FLOW
- ← PROPOSED TRAFFIC FLOW
- - · - EXISTING ROW
- - · - PROPOSED ROW
- ▭ PROPOSED DRAINAGE STRUCTURE
- — RETAINING WALL
- ▨ DISPLACEMENTS
- ▩ PAVEMENT REMOVAL
- ▩ FEMA ZONE
- ▒ RIPRAP
- ▒ WATER LINE

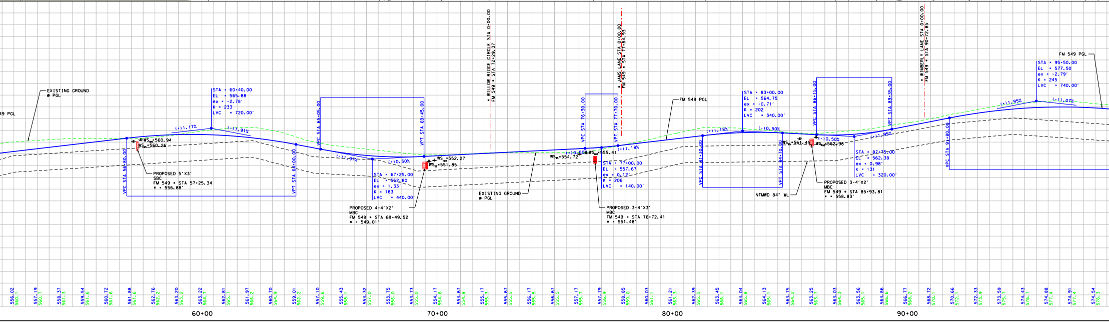
NOTES:
1. ALL RADII ARE 15' UNLESS OTHERWISE NOTED.
2. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH LOCAL GOVERNMENT.

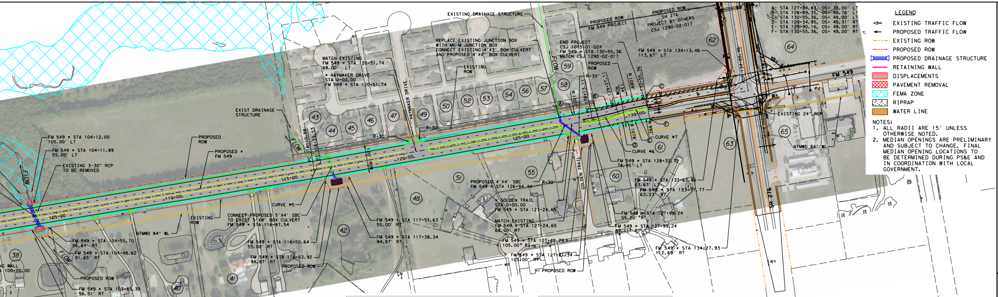
FM 549
SH 205
POT 20+00.00
20+00
FLOW
CONNECT EXISTING 4'X4' BOX CULVERT TO PROPOSED 2-4'X4' MBC
FM 549 * STA 21+14.85
170.29' LT
BEGIN PROJECT
CSJ 1015-01-024
FM 549 * STA 20+74.63
R=100'
PROPOSED 2-4'X4' MBC
FM 549 * STA 21+12.64
R=100'
FM 549 * STA 22+15.14
70.00' LT
PC 23+32.91
CURVE #1
PROPOSED ROW
140' ROW
25+00
PT 25+99.31
PROPOSED * FM 549
FM 549
POT 20+85.92
20+00
EXISTING ROW
1
2
5
FM 549 * STA 22+15.14
70.00' RT
FM 549 * STA 21+26.41
158.73' RT
FM 549 * STA 30+36.38
70.00' LT
FM 549 * STA 30+36.38
95.00' LT
FM 549 * STA 28+92.59
70.00' RT
FM 549 * STA 28+92.59
95.00' RT
165' ROW
30+00
PROPOSED ROW
BEGIN PROPOSED BRIDGE
FM 549 * STA 30+35.00
FLOW
ZONE X
FEMA ZONE AE
ZONE X
ZONE X
FLOW
END PROPOSED BRIDGE
FM 549 * STA 32+35.00
190' ROW
PC 34+19.31
NTMWD 84" WL
FM 549 * STA 33+61.67
281.97' LT
EXISTING 4-6'X5' BOX CULVERTS
END EXISTING FM 549
STA 13+92.48
MATCH EXISTING
FM 549 * STA 33+59.74
329.36' LT
FM 549 * STA 35+01.87
95.00' LT
15+00
PT 13+92.48
FLOW
FEMA ZONE A
40'
CURVE #8
R=30'
R=30'
EXISTING ROW
REMOVE EXISTING PAVEMENT
POT 10+00.00
35+00
10+00
PC 10+50.17
* EXISTING FM 549
STA 10+00.00
FM 549 * STA 35+48.82
NTMWD 84" WL
REMOVE EXISTING PAVEMENT
FM 549 * STA 38+78.22
95.00' RT
R=30'
CURVE #9
EXISTING 132" CMP
EXISTING ROW
BEGIN FM 1139
STA 12+00.00
MATCH EXISTING
FM 549 * STA 40+78.16
343.46' RT
FM 1139
EXISTING ROW
PC 12+86.45
PT 14+86.19
PROPOSED ROW
3
* FM 1139
STA 15+69.42
FM 549 * STA 39+89.87
POT 15+69.42
40+00
15+00
R=30'
4
FM 549 * STA 40+27.66
72.52' RT
FM 549 * STA 40+40.34
60.00' RT
FM 549 * STA 42+69.39
60.00' LT
PROPOSED ROW
PROPOSED ROW
CURVE #2
120' ROW
45+00
PT 47+65.07
6
7
9
10
11
12
FM 549 * STA 46+98.83
60.00' LT
50+00
120' ROW
FM 549 * STA 57+07.40
69.77' LT
FM 549 * STA 57+07.40
59.77' LT
BEGIN RETAINING WALL
FM 549 * STA 56+85.79
47.00' LT
END RETAINING WALL
FM 549 * STA 56+65.46
47.00' LT
BEGIN RETAINING WALL
FM 549 * STA 55+86.31
47.00' LT
PROPOSE
EXISTING 3'X3' BOX CUL
TO BE REMOVED
PROPOSED ROW
PROPOSED * FM 549
FM 549 * STA 45+46.17
60.00' RT
EXISTING ROW
FM 549 * STA 44+37.95
60.00' RT
FM 549 * STA 44+43.68
83.77' RT
NTMWD 84" WL
FM 549 * STA 56
60.00' RT
FM 549 * STA 56
99.97' RT
445'
345' DECELERATION
100' TRANSITION
245'
100' STORAGE
R 300'
R 150'

FM 549 PROPOSED LEFT TURN BAY TYPICAL DETAIL




FEMA ZONE A
27
37
13
14
15
16
17
18
19
20
21
22
23
24
25
26
28
29
30
31
32
33
34
35
36
8
FM 549 ▪ STA 57+43.88
69.76' LT
FM 549 ▪ STA 57+43.87
59.76' LT
PROPOSED 5'X3'
SBC
FM 549 ▪ STA 57+25.34
END RETAINING WALL
FM 549 ▪ STA 57+80.61
47.00' LT
ED ROW
FLOW
EXISTING
ROW
55+00
60+00
65+00
70+00
75+00
80+00
85+00
90+00
95+00
100+00
VERT
+73.32
+99.98
FM 549 ▪ STA 57+81.62
60.00' RT
FM 549 ▪ STA 57+50.19
99.99' RT
BEGIN RETAINING WALL
FM 549 ▪ STA 65+24.54
47.00' LT
NTMWD 84" WL
PROPOSED 4-4'X2' MBC
EXISTING 2-36" RCP TO BE REMOVED
FM 549 ▪ STA 69+49.52
FM 549 ▪ STA 69+32.09
80.02' LT
FM 549 ▪ STA 69+32.09
60.02' LT
BEGIN RETAINING WALL
FM 549 ▪ STA 69+40.00
47.00' LT
END RETAINING WALL
FM 549 ▪ STA 67+61.74
47.00' LT
FM 549 ▪ STA 68+80.27
60.00' RT
FM 549 ▪ STA 68+80.26
89.97' RT
FM 549 ▪ STA 69+99.53
55.00' RT
FM 549 ▪ STA 69+99.90
90.00' RT
END RETAINING WALL
FM 549 ▪ STA 70+70.00
47.00' LT
MATCH EXISTING
FM 549 ▪ STA 72+30.14
117.77' RT
PROPOSED ROW
FM 549 ▪
STA 69+98.29
80.03' LT
FM 549 ▪
STA 69+98.29
60.03' LT
BEGIN RETAINING WALL
FM 549 ▪ STA 71+30.00
47.03' LT
▪ WILLOW RIDGE CIRCLE
STA 0+00.00
FM 549 ▪ STA 72+29.37
R=30'
R=30
WILLOW RIDGE CIRCLE
END RETAINING WALL
FM 549 ▪ STA 74+01.82
47.03' LT
FM 549 ▪ STA 74+35.92
55.00' LT
FM 549 ▪ STA 74+35.76
60.10' LT
BEGIN RETAINING WALL
FM 549 ▪ STA 74+30.00
47.00' LT
FM 549 ▪ STA 75+07.42
95.00' LT
FM 549 ▪ STA 75+07.42
55.00' LT
FM 549 ▪ STA 76+61.03
95.00' LT
FM 549 ▪ STA 76+61.03
55.00' LT
EXISTING 8'X3' BOX CULVERT
TO BE REMOVED
FM 549 ▪ STA 76+30.60
PROPOSED 3-4'X3' MBC
FM 549 ▪ STA 76+72.41
BEGIN RETAINING WALL
FM 549 ▪ STA 82+60.00
47.00' LT
END RETAINING WALL
FM 549 ▪ STA 77+40.00
47.00' LT
▪ JAMS LANE
STA 0+00.00
FM 549 ▪ STA 77+84.93
PROPOSED ▪
FM 549
110' ROW
JAMS LANE
FM 549 ▪ STA 77+67.32
55.00' RT
FM 549 ▪ STA 77+67.53
90.00' RT
MATCH EXISTING
FM 549 ▪ STA 77+85.76
117.93' RT
END RETAINING WALL
FM 549 ▪ STA 77+64.95
47.00' RT
FM 549 ▪ STA 76+72.43
55.00' RT
FM 549 ▪ STA 76+72.64
90.00' RT
BEGIN RETAINING WALL
FM 549 ▪ STA 75+75.87
47.00' RT
FM 549 ▪ STA 85+57.56
110.15' LT
FM 549 ▪ STA 85+57.44
55.00' LT
CURVE #4
PC 83+38.42
PRC 84+13.31
PT 84+87.72
110' ROW
CURVE #3
NTMWD 84" WL
PROPOSED
ROW
PROPOSED 3-4'X2' MBC
EXISTING 2-24" CMP TO BE REMOVED
FM 549 ▪ STA 85+93.81
FM 549 ▪ STA 86+27.56
110.00' LT
FM 549 ▪ STA 86+27.44
55.00' LT
END RETAINING WALL
FM 549 ▪ STA 86+79.99
47.00' LT
FM 549 ▪ STA 86+38.93
55.00' RT
FM 549 ▪ STA 86+25.50
94.97' RT
FM 549 ▪ STA 85+61.09
94.83' RT
FM 549 ▪ STA 85+47.91
55.00' RT
▪ WIMBERLEY LANE
STA 0+00.00
FM 549 ▪ STA 90+72.85
PROPOSED
ROW
R=30'
WIMBERLEY LANE
MATCH EXISTING
FM 549 ▪ STA 90+72.70
67.87' RT
END RETAINING WALL
FM 549 ▪ STA 90+14.10
47.00' RT
BEGIN RETAINING WALL
FM 549 ▪ STA 88+50.00
47.00' RT
EXISTING
ROW
PROPOSED
ROW
BEGIN RETAINING WALL
FM 549 ▪ STA 99+33.08
47.00' RT
▪ FONTANA BOULEVARD
STA 0+00.00
FM 549 ▪ STA 98+82.60
FONTANA BOULEVARD
R=30'
MATCH EXISTING
FM 549 ▪ STA 98+82.60
68.00' RT
END RETAINI
FM 549 ▪ STA
47.00' RT
FM 549 ▪ STA 103+60.00
105.12' LT
FM 549 ▪ STA 103+59.89
55.00' LT
PROPOSED 2-5'X3'
MBC
FM 549 ▪ STA 104+06.46


49 PGL
EXISTING GROUND
▪ PGL
VPC STA 56+80.00
WS100 =560.94
WS25 =560.26
PROPOSED 5'X3'
SBC
FM 549 ▪ STA 57+25.34
▪ = 556.88'
(+)1.17%
STA = 60+40.00
EL = 565.88
ex = -2.78'
K = 233
LVC = 720.00'
(-)1.91%
VPT STA 64+00.00
VPC STA 65+05.00
(-)1.91%
STA = 67+25.00
EL = 552.80
ex = 1.33'
K = 183
LVC = 440.00'
(+)0.50%
VPT STA 69+45.00
WS100 =552.27
WS25 =551.85
PROPOSED 4-4'X2'
MBC
FM 549 ▪ STA 69+49.52
▪ = 549.01'
▪ WILLOW RIDGE CIRCLE STA 0+00.00
FM 549 ▪ STA 72+29.37
EXISTING GROUND
▪ PGL
VPC STA 76+30.00
(+)0.60%
WS25 =554.72
WS100 =555.41
STA = 77+00.00
EL = 557.67
ex = 0.12'
K = 206
LVC = 140.00'
VPT STA 77+70.00
▪ JAMS LANE STA 0+00.00
FM 549 ▪ STA 77+84.93
(+)1.18%
PROPOSED 3-4'X3'
MBC
FM 549 ▪ STA 76+72.41
▪ = 551.48'
FM 549 PGL
VPC STA 81+30.00
(+)1.18%
STA = 83+00.00
EL = 564.75
ex = -0.71'
K = 202
LVC = 340.00'
(-)0.50%
VPT STA 84+70.00
NTMWD 84" WL
WS25 =561.45
WS100 =562.98
VPC STA 86+15.00
(-)0.50%
PROPOSED 3-4'X2'
MBC
FM 549 ▪ STA 85+93.81
▪ = 558.83'
STA = 87+75.00
EL = 562.38
ex = 0.98'
K = 131
LVC = 320.00'
(+)1.95%
VPT STA 89+35.00
▪ WIMBERLY LANE STA 0+00.00
FM 549 ▪ STA 90+72.85
VPC STA 91+80.00
(+)1.95%
STA = 95+50.00
EL = 577.50
ex = -2.79'
K = 245
LVC = 740.00'
(-)1.07%
FM 549 PGL
556.02
560.1
557.19
560.7
558.37
561.3
559.54
561.6
560.72
561.6
561.88
561.6
562.76
562.2
563.20
563.2
563.22
564.7
562.81
565.7
561.97
566.2
560.70
564.9
559.01
562.2
557.10
559.6
555.43
558.1
554.32
557.0
553.75
556.0
553.73
555.0
554.17
554.6
554.67
554.8
555.17
555.3
555.67
555.5
556.17
555.5
556.67
555.5
557.17
555.7
557.79
556.9
558.85
559.0
560.03
561.1
561.21
563.3
562.39
565.5
563.45
566.1
564.04
565.8
564.13
565.1
563.75
564.2
563.25
563.7
563.03
564.3
563.56
565.1
564.86
566.6
566.77
568.2
568.72
570.1
570.66
572.1
572.33
573.9
573.59
575.7
574.43
576.7
574.88
577.4
574.91
577.4
574.54
576.3
60+00
70+00
80+00
90+00


EXISTING DRAINAGE STRUCTURE
REPLACE EXISTING JUNCTION BOX WITH MH-M JUNCTION BOX CONNECT EXISTING 4'X3' BOX CULVERT AND PROPOSED 4'X4' BOX CULVERT
EXISTING ROW
END PROJECT CSJ 1015-01-024 FM 549 • STA 130+55.36 MATCH CSJ 1290-02-017
PROPOSED ROW FM 549 PROJECT
PROPOSED ROW SH 276 PROJECT BY OTHERS CSJ 1290-02-017
FM 549 • STA 134+13.46 113.67' LT
MATCH EXISTING FM 549 • STA 120+51.74 68.00' LT
• HAYMAKER DRIVE STA 0+00.00 FM 549 • STA 120+51.74
HAYMAKER DRIVE
GOLDEN TRAIL
EXIST DRAINAGE STRUCTURE
FM 549 • STA 104+12.00 105.00' LT
FM 549 • STA 104+11.89 55.00' LT
EXISTING 3-30" RCP TO BE REMOVED
PROPOSED ROW
PROPOSED • FM 549
FLOW
R=30'
CURVE #5
CURVE #6
CURVE #7
EXISTING ROW
CONNECT PROPOSED 5'X4' SBC TO EXIST 5'X4' BOX CULVERT FM 549 • STA 116+87.54
NTMWD 84" WL
FM 549 • STA 104+55.70 56.67' RT
FM 549 • STA 104+48.62 91.65' RT
PROPOSED ROW
FM 549 • STA 103+85.30 56.51' RT
FM 549 • STA 103+92.22 91.53' RT
FM 549 • STA 116+50.64 55.00' RT
FM 549 • STA 116+63.92 94.87' RT
FM 549 • STA 117+51.63 55.00' RT
FM 549 • STA 117+38.34 94.87' RT
PROPOSED 4'X4' SBC FM 549 • STA 126+94.44
• GOLDEN TRAIL STA 0+00.00 FM 549 • STA 127+24.65
MATCH EXISTING FM 549 • STA 127+24.65 68.00' RT
FM 549 • STA 127+49.24 105.00' RT
FM 549 • STA 127+81.34 105.00' RT
FM 549 • STA 127+99.24 55.00' RT
FM 549 • STA 127+99.24 87.11' RT
FM 549 • STA 128+32.79 78.95' LT
FM 549 • STA 133+63.46 63.67' LT
FM 549 • STA 133+77.77 63.23' RT
FM 549 • STA 134+27.93 112.69' RT
EXISTING 24" RCP
NTMWD 84" WL
FM 549
SH 276
A- STA 127+34.83, OS= 38.00' LT
B- STA 128+89.35, OS= 46.76' LT
C- STA 130+55.36, OS= 48.00' LT
D- STA 129+34.95, OS= 45.31' RT
E- STA 129+90.16, OS= 48.00' RT
F- STA 130+55.36, OS= 48.00' RT
105+00
110+00
115+00
120+00
125+00
130+00
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

LEGEND

- ⇦ EXISTING TRAFFIC FLOW
- ← PROPOSED TRAFFIC FLOW
- - · - EXISTING ROW
- - · - PROPOSED ROW
- ▭ PROPOSED DRAINAGE STRUCTURE
- — RETAINING WALL
- ▨ DISPLACEMENTS
- ▩ PAVEMENT REMOVAL
- ▭ FEMA ZONE
- ▒ RIPRAP
- ▨ WATER LINE

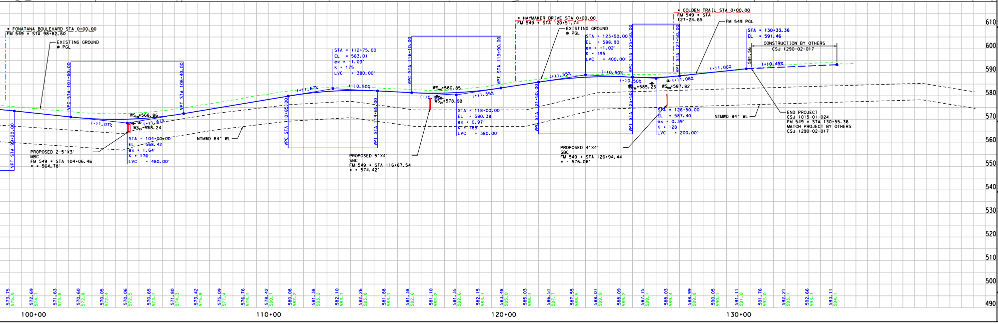
NOTES:
1. ALL RADII ARE 15' UNLESS OTHERWISE NOTED.
2. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH LOCAL GOVERNMENT.

TOPO INFORMATION PROVIDED BY TXDOT DECEMBER 2011

PROPERTY OWNER INFORMATION		
NUMBER	PROPERTY ID	OWNER NAMES
1	30851	ROCKWALL 205 INVESTORS LLC
2	61354	DOUGLAS A JONES
3	11255	KLUTTS FARM LLC
4	45254	DAVID R COTTON & WIFE, DELORES J COTTON
5	11254	ARCADIA LAKES OF SOMERSET HOLDINGS LLC
6	45253	SEAN AND BRANDI PETTIFORD
7	45252	CASEY K AND CATHARINE WELCH
8	12255	KLUTTS FARM LLC
9	45251	AARON J AND JENNIFER R HERRERA
10	45250	GREGORY D HOLLON
11	45249	THOMAS J & CAROL J OHMANN
12	45248	POWERS FAMILY TRUST
13	44923	KEVIN J AND ERIN M MCCANN
14	44924	RICHARD V & GLORIA J LEE
15	44925	BRUCE CHERRY
16	44927	CHRISTOPHER W & SHERRI L DUGGAN
17	44928	CHRIS AND SHERRI DUGGAN
18	44929	ANTHONY ACOSTA
19	44930	RICHARD W & SHARON ES HENSON
20	44931	GARY K & HELEN COMEAU NELLER
21	12279	TOMAS JIMENEZ
22	12277	THOMAS E & JOAN L MONTGOMERY REVOCABLE LIVING TRUST
23	12284	ROBERT S JR & MARY LYNN RANDALL
24	12285	ROBERT S JR & MARY LYNN RANDALL
25	12287	TERI S ODOM
26	12248	ISAAC PENA
27	11256	LOFLAND N L EST
28	12280	FONTANNA RANCH PHASE II LP
29	73074	FONTANNA RANCH HOMEOWNERS ASSOCIATION INC
30	73068	D R HORTON - TEXAS LTD
31	73064	FONTANNA RANCH LTD
32	73066	FONTANNA RANCH HOMEOWNERS ASSOCIATION INC
33	12253	ETHEL MAE INGRAM
34	54498	JAMES KENDELL INGRAM
35	73065	FONTANNA RANCH HOMEOWNERS ASSOCIATION INC
36	73041	FONTANNA RANCH HOMEOWNERS ASSOCIATION INC
37	10240	LOFLAND N L EST
38	50288	STAN & MELBA JEFFUS
39	50229	EUGENE D & BONNIE TERMINI
40	60649	RODRIGUEZ FAMILY TRUST

PROPERTY OWNER INFORMATION		
NUMBER	PROPERTY ID	OWNER NAMES
41	50230	ISAAC & SANDY LEVY
42	50231	KEVIN T & SUZANN J BASWELL
43	61413	ROBERT JOHN AND TENA QUINLAN
44	61412	CHRIS S BARRY
45	61411	DEBRA CAVETT
46	61410	SZYNDROWSKI FAMILY TRUST
47	61409	CYNTHIA RENEE TUTTLE
48	47712	HOWARD E BROWN
49	61371	LINDA MOSHER
50	61370	SELMAN ENTERPRISES INC
51	47713	TERRY G & JENNIFER WOODALL
52	61369	CHRISTOPHER & LAURA FOX
53	61368	ROSELY CURTIS BAILEY
54	61367	JEFF BIANCHI
55	47715	PATRICK RYAN SHANE
56	61366	PHILLIP EDWIN SMITH
57	61427	LOFLAND FARMS OWNERS ASSOC.
58	61365	MICHAEL ROCHELLE
59	61364	MURRAY PAUL BARTLEET
60	47740	DAVID & RACHEL DOWDEY
61	47739	DOUGLAS E & LAMPHONE WYGAL
62	10238	LOFLAND FARMS LTD
63	12250	DFW DISTRIBUTOR, PETROLEUM INC.
64	58363	ROCKWALL ECONOMIC DEVELOPMENT
65	71097	ALMO INVESTMENT II LTD

CURVE DATA								
CURVE	PISTATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	PC STATION	PT STATION
1	24+66.84	14° 40' 36.05" (RT)	5° 30' 33.15"	1,040.00	133.9345	266.4026	23+32.91	25+99.31
2	41+65.72	61° 41' 06.65" (LT)	4° 35' 01.18"	1,250.00	746.4095	1,345.7619	34+19.31	47+65.07
3	83+75.88	4° 07' 34.05" (RT)	5° 30' 33.15"	1,040.00	37.4637	74.895	83+38.42	84+13.31
4	84+50.53	4° 05' 56.83" (LT)	5° 30' 33.15"	1,040.00	37.2183	74.4049	84+13.31	84+87.72
5	116+17.20	0° 41' 47.20" (LT)	5° 30' 33.15"	1,040.00	6.3208	12.6414	116+10.88	116+23.53
6	128+70.17	6° 16' 49.05" (LT)	5° 30' 33.15"	1,040.00	57.0553	113.9962	128+13.11	129+27.11
7	129+91.32	7° 03' 56.43" (RT)	5° 30' 33.15"	1,040.00	64.2074	128.2521	129+27.11	130+55.36
8	12+36.42	56° 02' 13.60" (LT)	16° 22' 12.80"	350.00	186.2437	342.3112	10+50.17	13+92.48
9	13+89.81	36° 19' 55.79" (RT)	18° 11' 20.89"	335.00	103.3601	199.7465	12+86.45	14.86.19


• FONATANA BOULEVARD STA 0+00.00 FM 549 • STA 98+82.60
EXISTING GROUND
• PGL
PROPOSED 2-5'X3' MBC FM 549 • STA 104+06.46
• = 564.78'
STA = 104+00.00
EL = 568.42
ex = 1.64'
K = 176
LVC = 480.00'
WS = 568.86
WS = 568.24
(-)1.07%
(+)1.61%
VPC STA 101+60.00
VPT STA 106+40.00
NTMWD 84" WL
(+)1.67%
(-)0.50%
STA = 112+75.00
EL = 583.01
ex = -1.03'
K = 175
LVC = 380.00'
VPC STA 110+85.00
VPT STA 114+65.00
PROPOSED 5'X4' SBC FM 549 • STA 116+87.54
• = 574.42'
VPC STA 116+10.00
VPT STA 119+90.00
WS = 580.85
WS = 578.99
(-)0.50%
(+)1.55%
STA = 118+00.00
EL = 580.38
ex = 0.97'
K = 185
LVC = 380.00'
• HAYMAKER DRIVE STA 0+00.00 FM 549 • STA 120+51.74
EXISTING GROUND
• PGL
(+)1.55%
(-)0.50%
STA = 123+50.00
EL = 588.90
ex = -1.02'
K = 195
LVC = 400.00'
VPC STA 121+50.00
VPT STA 125+50.00
PROPOSED 4'X4' SBC FM 549 • STA 126+94.44
• = 576.06'
• GOLDEN TRAIL STA 0+00.00 FM 549 • STA 127+24.65
FM 549 PGL
(-)0.50%
(+)1.06%
WS = 585.23
WS = 587.82
STA = 126+50.00
EL = 587.40
ex = 0.39'
K = 128
LVC = 200.00'
VPC STA 125+50.00
VPT STA 127+50.00
STA = 130+33.36
EL = 591.46
591.56
(+)1.06%
(+)0.45%
CONSTRUCTION BY OTHERS CSJ 1290-02-017
NTMWD 84" WL
END PROJECT CSJ 1015-01-024 FM 549 • STA 130+55.36 MATCH PROJECT BY OTHERS CSJ 1290-02-017
610
600
590
580
570
560
550
540
530
520
510
500
490
100+00
110+00
120+00
130+00

ROCKWALL COUNTY

PRELIMINARY DESIGN SCHEMATIC

Texas Department of Transportation

©2019 by Texas Department of Transportation; all rights reserved

DALLAS DISTRICT
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

FM 549

FROM SH 205 TO SH 276
CSJ NO. 1015-01-024

ROADWAY = 10,780.73 FT = 2.042 MI
BRIDGE = 200 FT = 0.038 MI
NET LENGTH OF PROJECT = 10,980.73 FT = 2.080 MI

FM 549

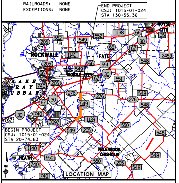
FUNCTIONAL CLASS:	MINOR ARTERIAL
DESIGN SPEED:	45 MPH
PROJECTED ADT (2015):	5,200
PROJECTED ADT (2035):	8,100

TRAFFIC SOURCE: TXDOT, TP&P MEMO FEBRUARY 5, 2010

FM 1139
DESIGN SPEED: 30 MPH

EXIST FM 549
DESIGN SPEED: 30 MPH

EQUATIONS: NONE
RAILROADS: NONE
EXCEPTIONS: NONE


END PROJECT
CSJ: 1015-01-024
STA 130+55.36
BEGIN PROJECT
CSJ: 1015-01-024
STA 20+74.63
ROCKWALL
FATE
ROYSE CITY
MOBILE CITY
LAKE RAY HUBBARD
HEATH
McLENDON CHISHOLM
205
549
552
1138
1139
1140
1141
740
548
550
551
2453
3097
30
66
67
276
35
LOCATION MAP

HORIZONTAL AND VERTICAL CONTROL DATUM

PROJECT: FM 549
TXDOT
DATES SURVEYED: 08-22-2018
COORDINATE SYSTEM: TEXAS NORTH CENTRAL
HORIZONTAL DATUM: NAD 83, SURFACE
VERTICAL DATUM: NAVD 88
UNITS: U.S. SURVEY FEET

200' 100' 0 200'
SCALE: HORIZONTAL 1"= 200'

20' 10' 0 20'
SCALE: VERTICAL 1"= 20'

DANNENBAUM
ENGINEERING COMPANY - DALLAS, LLC
T.B.P.E. FIRM REGISTRATION #8996
3030 LBJ FREEWAY, STE 910 DALLAS, TX 75234 (972) 239-2002

**PRELIMINARY
SUBJECT TO CHANGE**

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF DANIEL W. EVERETT, P.E. 93551. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES. DATE: 3/8/2019

ROLL 1 OF 1