Texas Department of Transportation

© 2022 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 1378
DRAFT DESIGN SCHEMATIC

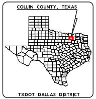
COLLIN COUNTY, TEXAS
FROM FM 3286 TO WEST LUCAS RD
CSJ: 1392-01-048
LENGTH: 0.984 MILES
TERRAIN: LEVEL

DATED: APRIL 2023

ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 1378	40 MPH	MINOR ARTERIAL
INTERSECTING STREETS	30 MPH	LOCAL

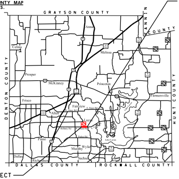
INDEX OF SHEETS

SHEET 1:	FM1378 PLAN & PROFILE
SHEET 2:	INTERSECTION PLAN & PROFILE


COLLIN COUNTY, TEXAS

TXDOT DALLAS DISTRICT
TEXAS COUNTY MAP
N.T.S.

END PROJECT
CSJ: 1392-01-048
E. LUCAS ROAD
STA. 55+75.90


GRAYSON COUNTY
FANNIN COUNTY
DENTON COUNTY
HUNT COUNTY
DALLAS COUNTY
ROCKWALL COUNTY
Anna
Celina
Melissa
Prosper
McKinney
Princeton
Frisco
Farmersville
Fairview
Allen
Lucas
Plano
Lake Lavon
Murphy
Wylie
Sachse
Dallas
Richardson

BEGIN PROJECT
CSJ: 1392-01-048
W. LUCAS ROAD
STA. 5+00.00

LOCATION MAP
N.T.S.

LEGEND

—·—·—	EXISTING RIGHT OF WAY LINE	—··—	PROPOSED DRIVEWAY CONSTRUCTION OUTSIDE OF ROW
🟥 —·—	PROPOSED RIGHT OF WAY LINE	▨	EXISTING PAVEMENT REMOVAL
—·—·—	CENTERLINE	🟧	PROPOSED CONCRETE PAVEMENT
———	PARCEL LINE	🟨	PROPOSED SIDEWALK
— — —	CITY/COUNTY BOUNDARY LINE	🟪	PROPOSED DRIVEWAY
- - -	EXISTING DRAINAGE	🟦	PROPOSED BRIDGE
———	PROPOSED DITCH BOTTOM	⬜	ADJACENT PROJECT - BY OTHERS
🟩	PROPOSED DRAINAGE STRUCTURE	⬜	PROPOSED ROW ACQUISITION
- - -	PROPOSED CULVERT	←	PROPOSED LANES
←∿	DIRECTION OF FLOW	(#)	PARCEL IDENTIFICATION NUMBER
▭	EXISTING 100-YEAR FLOODPLAIN	⊠	POTENTIAL IMPACT
▭	C402 RAIL	▨	DISPLACEMENT
▭	METAL BEAM GUARD FENCE (MBGF)		

SCALE: 1"=100' H, 1"=10' V

PRELIMINARY
FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

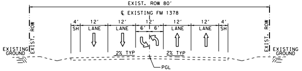
NAME	P.E. NO.	DATE
STEPHEN A JOHNSON, PE	103591	4/12/2023

GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034

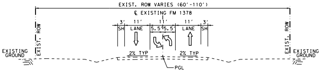
FIRM REGISTRATION NO. 5713

ROLL 1 OF 2

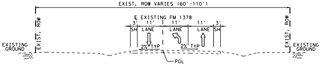
EXISTING TYPICAL SECTION
(N.T.S.)


EXIST. ROW 80'
℄ EXISTING FM 1378
4'
12'
12'
12'
12'
12'
4'
SH
LANE
LANE
6'
6'
LANE
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

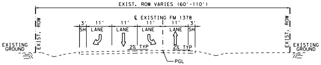
PROPOSED BY OTHERS FM 1378 TYP
STA. 10+00.00 TO STA. 13+00.00


EXIST. ROW VARIES (60'-110')
℄ EXISTING FM 1378
3'
11'
11'
11'
3'
SH
LANE
5.5'
5.5'
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

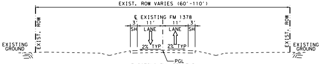
EXISTING FM 1378 TYP
STA. 11+32.46 TO STA. 17+17.50


EXIST. ROW VARIES (60'-110')
℄ EXISTING FM 1378
3'
11'
11'
11'
3'
SH
LANE
LANE
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

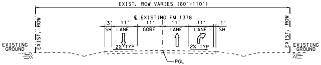
EXISTING FM 1378 TYP
STA. 17+17.50 TO STA. 19+45.95


EXIST. ROW VARIES (60'-110')
℄ EXISTING FM 1378
3'
11'
11'
11'
11'
3'
SH
LANE
LANE
LANE
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

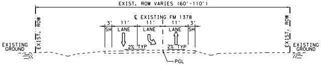
EXISTING FM 1378 TYP
STA. 19+45.95 TO STA. 24+07.99


EXIST. ROW VARIES (60'-110')
℄ EXISTING FM 1378
3'
11'
11'
3'
SH
LANE
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

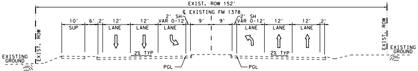
EXISTING FM 1378 TYP
STA. 24+07.99 TO STA. 41+63.89
STA. 49+10.75 TO STA. 55+75.90


EXIST. ROW VARIES (60'-110')
℄ EXISTING FM 1378
3'
11'
11'
11'
11'
1'
SH
LANE
GORE
LANE
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

EXISTING FM 1378 TYP
STA. 41+63.89 TO STA. 45+33.05

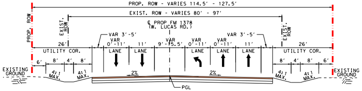

EXIST. ROW VARIES (60'-110')
℄ EXISTING FM 1378
3'
11'
11'
11'
3'
SH
LANE
LANE
LANE
SH
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL

EXISTING FM 1378 TYP
STA. 45+33.05 TO STA. 49+10.75

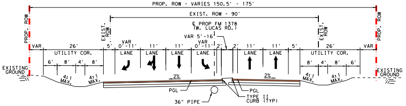

EXIST. ROW 152'
℄ EXISTING FM 1378
10'
6'
2'
12'
12'
2' SH
VAR 0-12'
9'
9'
2' SH
VAR 0-12'
12'
12'
2'
SUP
LANE
LANE
LANE
LANE
LANE
LANE
EXIST. ROW
EXIST. ROW
EXISTING GROUND
EXISTING GROUND
2% TYP
2% TYP
PGL
PGL

PROPOSED BY OTHERS FM 1378 TYP
STA. 55+75.90

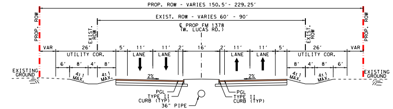
PROPOSED


PROP. ROW - VARIES 114.5' - 127.5'
EXIST. ROW - VARIES 80' - 97'
℄ PROP FM 1378
(W. LUCAS RD.)
PROP. ROW
EXIST. ROW
EXIST. ROW
VAR 3'-5'
VAR 3'-5'
26'
VAR 0'-11'
11'
VAR 9'-15.5'
VAR 0'-11'
VAR 0'-11'
11'
26'
UTILITY COR.
LANE
LANE
LANE
LANE
LANE
UTILITY COR.
6'
8'
4'
8'
8'
4'
8'
6'
EXISTING GROUND
EXISTING GROUND
4:1 MAX.
4:1 MAX.
4:1 MAX.
4:1 MAX.
2%
2%
PGL

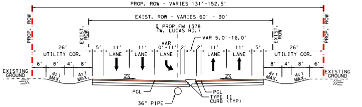
PROPOSED FM 1378 TYP
STA. 5+00 TO STA. 19+50


PROP. ROW - VARIES 150.5' - 175'
EXIST. ROW - 90'
℄ PROP FM 1378
(W. LUCAS RD.)
PROP. ROW
PROP. ROW
EXIST. ROW
EXIST. ROW
VAR 5'-16'
VAR
26'
5'
VAR 0'-11'
11'
11'
VAR 0'-11'
2'
2'
11'
11'
5'
26'
VAR
UTILITY COR.
LANE
LANE
LANE
LANE
LANE
LANE
UTILITY COR.
6'
8'
4'
8'
8'
4'
8'
6'
EXISTING GROUND
EXISTING GROUND
4:1 MAX.
4:1 MAX.
4:1 MAX.
4:1 MAX.
2%
2%
PGL
PGL
TYPE II CURB (TYP)
36" PIPE

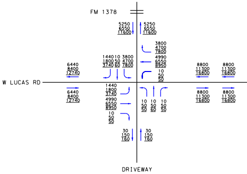
PROPOSED FM 1378 TYP
STA. 19+50 TO STA. 24+00


PROP. ROW - VARIES 150.5' - 229.25'
EXIST. ROW - VARIES 60' - 90'
℄ PROP FM 1378
(W. LUCAS RD.)
PROP. ROW
PROP. ROW
EXIST. ROW
EXIST. ROW
VAR
26'
5'
11'
11'
2'
16'
2'
11'
11'
5'
26'
VAR
UTILITY COR.
LANE
LANE
LANE
LANE
UTILITY COR.
6'
8'
4'
8'
8'
4'
8'
6'
EXISTING GROUND
EXISTING GROUND
4:1 MAX.
4:1 MAX.
4:1 MAX.
4:1 MAX.
2%
2%
PGL
TYPE II CURB (TYP)
PGL
TYPE II CURB (TYP)
36" PIPE

PROPOSED FM 1378 TYP
STA. 24+00 TO STA. 26+00
STA. 31+10 TO STA. 41+00

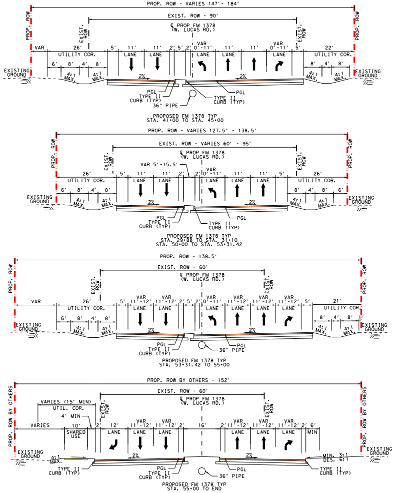

PROP. ROW - VARIES 131'-152.5'
EXIST. ROW - VARIES 60' - 90'
℄ PROP FM 1378
(W. LUCAS RD.)
PROP. ROW
PROP. ROW
EXIST. ROW
EXIST. ROW
VAR 5.0'-16.0'
26'
5'
11'
11'
VAR 0'-11'
2'
2'
11'
11'
5'
26'
UTILITY COR.
LANE
LANE
LANE
LANE
LANE
UTILITY COR.
6'
8'
4'
8'
8'
4'
8'
6'
EXISTING GROUND
EXISTING GROUND
4:1 MAX.
4:1 MAX.
4:1 MAX.
4:1 MAX.
2%
2%
PGL
PGL
TYPE II CURB (TYP)
36" PIPE

PROPOSED FM 1378 TYP
STA. 26+00 TO STA. 29+88
STA. 45+00 TO STA. 50+00

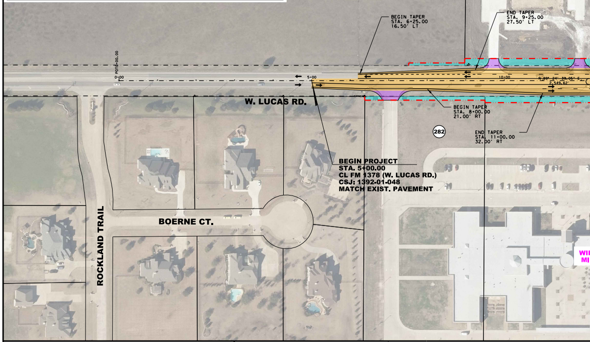

FM 1378
W LUCAS RD
DRIVEWAY
5250
6550
11600
5250
6550
11600
3800
4700
7800
4990
6550
8950
10
50
50
1440
1800
3740
10
50
60
3800
4700
7800
6440
8400
12740
6440
8400
12740
1440
1800
3740
4990
6550
8950
10
50
50
10
50
50
10
50
60
10
50
50
30
150
160
30
150
160
8800
11300
16800
8800
11300
16800
8800
11300
16800
8800
11300
16800

TRAFFIC

TYPICAL SECTION
(N.T.S.)


PROP. ROW - VARIES 147' - 184'
EXIST. ROW - 90'
℄ PROP FM 1378 (W. LUCAS RD.)
UTILITY COR.
LANE
2%
4:1 MAX.
EXISTING GROUND
PGL
TYPE II CURB (TYP)
36" PIPE
PROPOSED FM 1378 TYP
STA. 41+00 TO STA. 45+00
PROP. ROW - VARIES 127.5' - 138.5'
EXIST. ROW - VARIES 60' - 95'
VAR 5' -15.5'
PROPOSED FM 1378 TYP
STA. 29+88 TO STA. 31+10
STA. 50+00 TO STA. 53+31.42
PROP. ROW - 138.5'
EXIST. ROW - 60'
PROPOSED FM 1378 TYP
STA. 53+31.42 TO 55+00
PROP. ROW BY OTHERS - 152'
EXIST. ROW - 60'
VARIES (15' MIN)
UTIL. COR.
4' MIN
SHARED USE
MIN. 3:1
DES. 6:1
PROPOSED FM 1378 TYP
STA. 55+00 TO END

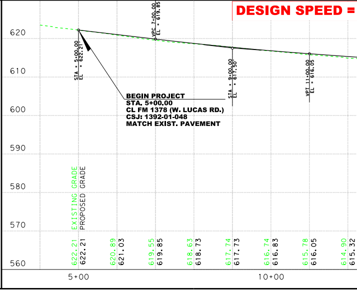
PROPERTY OWNERS		
Parcel Number	Owner	PROPERTY ADDRESS
281	KAPP JANET ELAINE	W LUCAS RD
282	LOVEJOY ISD	1101 W LUCAS RD
283	TRINITY TABERNACLE ASSEMBLY OF GOD	1130 W LUCAS RD
284	LOVEJOY ISD	1101 W LUCAS RD
285	SWEELY, ROBERT E	1030 W LUCAS RD
149	BICKFORD, JOHN SCOTT & BICKFORD D'ANN DUHE	1 ESTATES RD
146	BLACKSTOCK, CHARLES E	215 COUNTRY CLUB RD
144	CITY OF LUCAS	151 COUNTRY CLUB RD
142	SPURGIN, TRUMAN - ESTATE OF	1045 W LUCAS RD
141	SPURGIN, ALAN R & PATRICIA K	1015 W LUCAS RD
138	ZALE, CRAIG & TINA L	1005 W LUCAS RD
140	MAHMOUD PROPERTIES LLC	995 W LUCAS RD
139	HB ENTERPRISES LLC	945 W LUCAS RD
137	PATEL, VIDITA A & BINA P DESAI	925 W LUCAS RD
135	ALLEN FAMILY OF FAITH CHURCH	100 STINSON RD
150	HEBERT, CORY & KRISTIN	309 STRAIN LN
148	WOOD, STEPHANIE N & STANLEY K	303 STRAIN LN
147	MISE, DARREN & ALYSA	215 STRAIN LN
145	JOHNSON, DONNA & DONALD	211 STRAIN LN
143	THOMAS, MARTIN & VARANJUTA	205 STRAIN LN
136	GUILLEN, ISRAEL DURAN & ERIKA A DE LA VEGA VAZQUEZ	200 STRAIN LN
134	YILDIRIM, MELIH	206 STRAIN LN
133	GOOD SHEPHERD UNITED METHODIST CHURCH LUCAS	750 W LUCAS RD FM 1378
131	GOOD SHEPHERD UNITED METHODIST CHURCH LUCAS	750 W LUCAS RD FM 1378
130	RICHMOND, JOHN & AUTUMN	609 BURKE DR
132	THOMPSON, WILLIAM S III	STINSON RD
129	KOERNER, CHRIS & JESSICA	685 W LUCAS RD
127	JAMES AND LEE IRWIN FAMILY LIMITED PARTNERSHIP	W LUCAS RD
128	ROMANIELLO, SABRINA & OWEN	603 BURKE DR
126	DAY, KEITH & JANA R	511 BURKE DR
125	WIESE FAMILY ESTATE & TRUST	503 BURKE DR
124	LUCAS CHRISTIAN ACADEMY INC	505 W LUCAS RD
123	OROZCO, LUZ CECILIA CORONA	155 HOLLY LN
121	ESFANDIARI, ABBAS & FARZANEH	150 HOLLY LN
122	LUCAS CHRISTIAN CHURCH DBA RESONATE LIFE CHURCH	415 W LUCAS RD
120	ESFANDIARI, ABBAS & FARZANEH	390 W LUCAS RD
119	CITY OF LUCAS	325 W LUCAS RD
117	THORNBERG SEAN & MOLLY	1 EDGEFIELD LN
118	KHAN, AMAN ULLAH & SEHRISH FAROOQ	315 W LUCAS RD
116	BOYETTE, DONNA	265 W LUCAS RD
114	MARTIN, HOWARD & NANCY REVOCABLE TRUST	2 EDGEFIELD LN
115	LAFON, JOANN BAILEY & DOYLE BAILEY	55 W LUCAS RD
111	ESFANDIARI, ABBAS & FARZANEH	FM 1378
112	COLLIN COUNTY TEXAS, ATTN: JEFF DURHAM	55 W LUCAS /FM 1378 RD
113	CRISCUOLO, FRANCESCO & YVONNE CHRISTINA	22 CEDAR BEND CIR


281
283
282
TRINITY TABERNACLE AOG
BEGIN TAPER STA. 6+25.00 16.50' LT
END TAPER STA. 9+25.00 27.50' LT
BEGIN TAPER STA. 8+00.00 21.00' RT
END TAPER STA. 11+00.00 32.00' RT
POT 0+00.00
0+00
5+00
10+00
W. LUCAS RD.
BEGIN PROJECT
STA. 5+00.00
CL FM 1378 (W. LUCAS RD.)
CSJ: 1392-01-048
MATCH EXIST. PAVEMENT
BOERNE CT.
ROCKLAND TRAIL

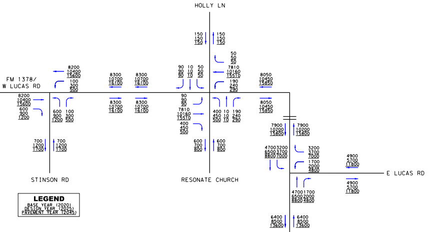
SCHEMATIC GENERAL NOTES

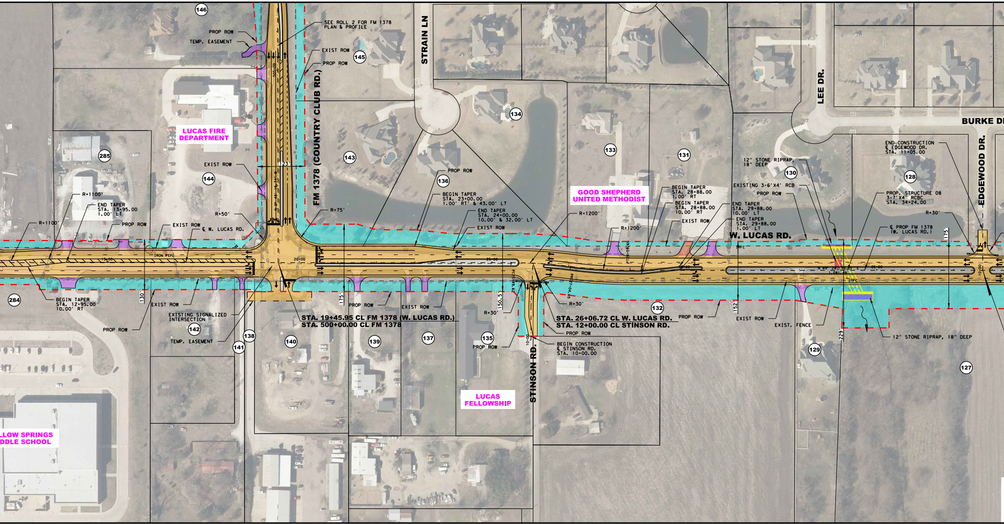
1. EXISTING ROW FOR FM 1378 IS APPARENT ROW PROVIDED BY TXDOT, NOT PER DEED RESEARCH.
2. AERIAL FLIGHT DATE - JUNE 2017. EXISTING TOPOGRAPHICAL INFORMATION AS PROVIDED BY TxDOT, FEB 2018.
3. EXISTING TRAFFIC COUNTS AND TRAFFIC PROJECTIONS WERE OBTAINED FROM TRANSPORTATION PLANNING & PROGRAMMING (TPP) APPROVAL ON 1/10/2022.
4. EXISTING CREEK CENTERLINE SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), WASHINGTON, D.C., PUBLISHED: 2017-09-27, NATIONAL FLOOD HAZARD LAYER (NFHL). THE NFHL INCORPORATES ALL FLOOD INSURANCE RATE MAP (FIRM) DATABASES PUBLISHED BY THE FEMA, AND ANY LETTERS OF MAP REVISION (LOMRS) THAT HAVE BEEN ISSUED AGAINST THOSE DATABASES SINCE THEIR PUBLICATION DATE IT IS UPDATED ON A MONTHLY BASIS. THE FIRM DATABASE IS THE DIGITAL, GEOSPATIAL VERSION OF THE FLOOD HAZARD INFORMATION SHOWN ON THE PUBLISHED PAPER FIRMS. DUE TO NEW HIGH RESOLUTION TOPOGRAPHY THE STREAM CL WAS MODIFIED AS NEEDED.
5. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF LUCAS.
6. DESIGN IS SUBJECT TO CHANGE.
7. ALL PROPOSED DRIVEWAY CONSTRUCTION AREAS OUTSIDE OF THE PROPOSED ROW LIMITS SHALL BE CONSTRUCTED WITH COORDINATION BETWEEN PROPERTY OWNERS, TXDOT AREA OFFICE AND THE CONTRACTOR.

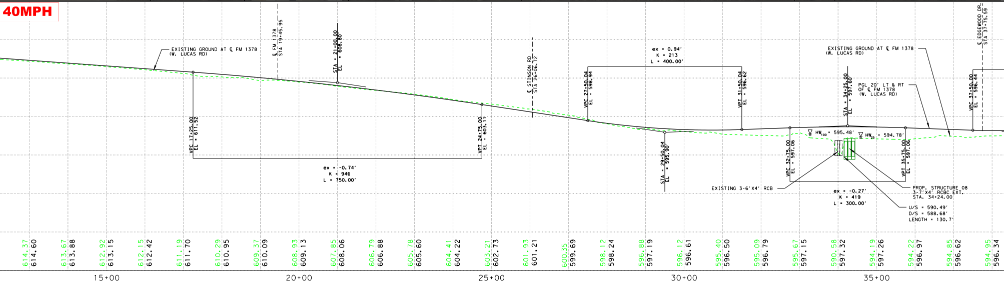
DESIGN SPEED =

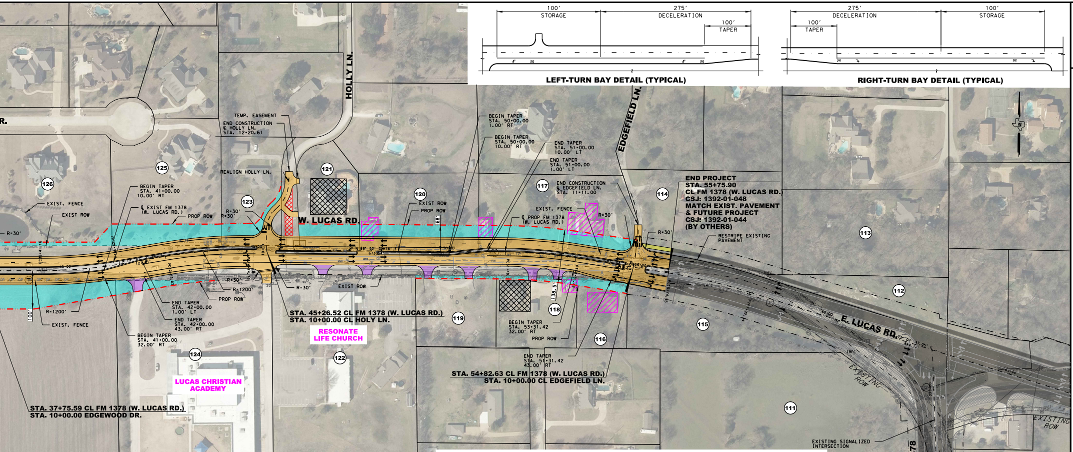


LINE DIAGRAM [N.T.S.]


HOLLY LN
FM 1378/
W LUCAS RD
STINSON RD
RESONATE CHURCH
E LUCAS RD
FM 1378
LEGEND
BASE YEAR (2020)
DESIGN YEAR (2025)
PAVEMENT YEAR (2045)
8200 10400 15600
100 300 500
8200 10400 15600
600 900 1200
600 900 1200
100 300 500
700 1200 1700
700 1200 1700
8300 10700 16100
8300 10700 16100
8300 10700 16100
8300 10700 16100
150 150 150
150 150 150
90 10 50
90 10 50
50 50 50
7810 10160 15510
190 240 290
90 90 90
7810 10160 15510
400 450 500
400 10 190
450 10 240
500 10 290
600 700 800
600 700 800
8050 10450 15850
8050 10450 15850
7900 10200 15800
7900 10200 15800
4700 3200
6500 3700
8800 7000
3200 3700 7000
1700 2000 4800
4900 5700 11800
4900 5700 11800
4700 1700
6500 2000
8800 4800
6400 8500 13600
6400 8500 13600


146
PROP ROW
TEMP. EASEMENT
SEE ROLL 2 FOR FM 1378 PLAN & PROFILE
EXIST ROW
145
PROP ROW
STRAIN LN
FM 1378 (COUNTRY CLUB RD.)
LUCAS FIRE DEPARTMENT
285
134
133
131
143
LEE DR.
BURKE DR
EDGEWOOD DR.
EXIST ROW
144
R=1100'
END TAPER STA. 13+95.00 1.00' LT
R=1100'
PROP ROW
EXIST ROW
℄ W. LUCAS RD.
R=50'
R=75'
136
PROP ROW
BEGIN TAPER STA. 23+00.00 1.00' RT & 43.00' LT
END TAPER STA. 24+00.00 10.00' & 32.00' LT
EXIST ROW
GOOD SHEPHERD UNITED METHODIST
R=1200'
R=1200'
BEGIN TAPER STA. 28+88.00 1.00' RT
BEGIN TAPER STA. 28+88.00 10.00' RT
EXIST ROW
END TAPER STA. 29+88.00 10.00' LT
END TAPER STA. 29+88.00 1.00' LT
W. LUCAS RD.
12" STONE RIPRAP, 18" DEEP
130
EXISTING 3-6'X4' RCB
PROP ROW
128
END CONSTRUCTION ℄ EDGEWOOD DR. STA. 11+05.00
PROP. STRUCTURE 08 3-7'X4" RCBC STA. 34+24.00
℄ PROP FM 1378 (W. LUCAS RD.)
R=30'
175'
IRON PIPE
20+00
25+00
35+00
284
BEGIN TAPER STA. 12+95.00 10.00' RT
130'
EXIST ROW
EXISTING SIGNALIZED INTERSECTION
142
TEMP. EASEMENT
PROP ROW
138
141
140
STA. 19+45.95 CL FM 1378 (W. LUCAS RD.)
STA. 500+00.00 CL FM 1378
175'
PROP ROW
EXIST ROW
139
137
R=30'
150.51'
135
PROP ROW
STINSON RD.
R=30'
132
STA. 26+06.72 CL W. LUCAS RD.
STA. 12+00.00 CL STINSON RD.
PROP ROW
PROP ROW
BEGIN CONSTRUCTION ℄ STINSON RD. STA. 10+00.00
152'
EXIST ROW
EXIST. FENCE
229'
12" STONE RIPRAP, 18" DEEP
129
127
LUCAS FELLOWSHIP
LLOW SPRINGS
DDLE SCHOOL

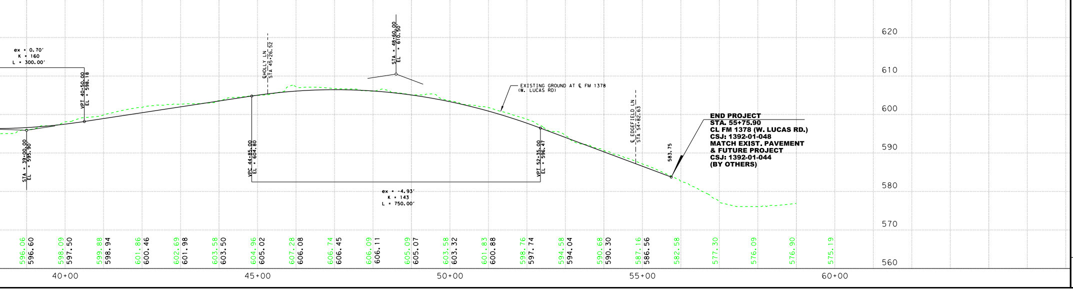

40MPH
EXISTING GROUND AT ℄ FM 1378 (W. LUCAS RD)
℄ FM 1378 STA 19+45.95
STA = 21+00.00 EL = 608.80'
℄ STINSON RD STA 26+06.72
ex = 0.94'
K = 213
L = 400.00'
VPC 27+50.04 EL = 598.94
VPT 31+50.04 EL = 596.62
EXISTING GROUND AT ℄ FM 1378 (W. LUCAS RD)
℄ EDGEWOOD DR. STA 37+75.59
STA = 34+25.00 EL = 597.60'
PGL 20' LT & RT OF ℄ FM 1378 (W. LUCAS RD)
VPC 37+50.00 EL = 596.44
VPC 17+25.00 EL = 611.52
VPT 24+75.00 EL = 603.11
ex = -0.74'
K = 946
L = 750.00'
STA = 29+50.04 EL = 595.90'
HW100 = 595.48'
HW25 = 594.78'
VPC 32+75.00 EL = 597.06
VPT 35+75.00 EL = 597.06
EXISTING 3-6'X4' RCB
ex = -0.27'
K = 419
L = 300.00'
PROP. STRUCTURE 08 3-7'X4' RCBC EXT. STA. 34+24.00
U/S = 590.49'
D/S = 588.68'
LENGTH = 130.7'
614.37
614.60
613.67
613.88
612.92
613.15
612.15
612.42
611.19
611.70
610.29
610.95
609.37
610.09
608.93
609.13
607.85
608.06
606.79
606.88
605.78
605.60
604.41
604.22
603.21
602.73
601.93
601.21
600.35
599.69
598.12
598.24
596.88
597.19
596.12
596.61
595.40
596.50
595.09
596.79
595.67
597.15
590.58
597.32
594.19
597.26
594.22
596.97
594.85
596.62
594.95
596.34
15+00
20+00
25+00
30+00
35+00


100'
STORAGE
275'
DECELERATION
100'
TAPER
LEFT-TURN BAY DETAIL (TYPICAL)
275'
DECELERATION
100'
TAPER
100'
STORAGE
RIGHT-TURN BAY DETAIL (TYPICAL)
HOLLY LN.
EDGEFIELD LN.
TEMP. EASEMENT
END CONSTRUCTION
℄ HOLLY LN.
STA. 12+20.61
REALIGN HOLLY LN.
125
126
121
123
120
117
114
113
112
115
116
118
119
122
124
111
BEGIN TAPER
STA. 41+00.00
10.00' RT
℄ EXIST FM 1378
(W. LUCAS RD.)
EXIST. FENCE
EXIST ROW
PROP ROW
R=30'
R=30'
W. LUCAS RD.
R=1200'
R=1200'
100'
EXIST. FENCE
END TAPER
STA. 42+00.00
1.00' LT
END TAPER
STA. 42+00.00
43.00' RT
BEGIN TAPER
STA. 41+00.00
32.00' RT
PROP ROW
EXIST ROW
STA. 45+26.52 CL FM 1378 (W. LUCAS RD.)
STA. 10+00.00 CL HOLY LN.
RESONATE
LIFE CHURCH
LUCAS CHRISTIAN
ACADEMY
STA. 37+75.59 CL FM 1378 (W. LUCAS RD.)
STA. 10+00.00 EDGEWOOD DR.
BEGIN TAPER
STA. 50+00.00
1.00' RT
BEGIN TAPER
STA. 50+00.00
10.00' RT
END TAPER
STA. 51+00.00
10.00' LT
END TAPER
STA. 51+00.00
1.00' LT
END CONSTRUCTION
℄ EDGEFIELD LN.
STA. 11+11.00
EXIST ROW
PROP ROW
EXIST. FENCE
℄ PROP FM 1378
(W. LUCAS RD.)
R=30'
R=30'
68'
138.5'
END PROJECT
STA. 55+75.90
CL FM 1378 (W. LUCAS RD.)
CSJ: 1392-01-048
MATCH EXIST. PAVEMENT
& FUTURE PROJECT
CSJ: 1392-01-044
(BY OTHERS)
RESTRIPE EXISTING
PAVEMENT
BEGIN TAPER
STA. 53+31.42
32.00' RT
PROP ROW
END TAPER
STA. 51+31.42
43.00' RT
STA. 54+82.63 CL FM 1378 (W. LUCAS RD.)
STA. 10+00.00 CL EDGEFIELD LN.
E. LUCAS RD.
EXISTING ROW
EXISTING SIGNALIZED
INTERSECTION
℄ FM 1378
EXIST. FENCE
PROPOSED ROW
FM 1378
PROPOSED ROW
EXISTING ROW

SUPERELEVATION TABLE			
WESTBOUND STATION	SUPERELEVATION e%	WESTBOUND STATION	SUPERELEVATION e%
STA 16+00	-2.00%	STA 35+00	-2.00%
STA 18+00	2.00%	STA 37+00	2.00%
STA 21+00	2.00%	STA 38+00	2.00%
STA 23+00	-2.00%	STA 40+00	-2.00%

TURN LANE DETAILS				
DIRECTION	INTERSECTION	TAPER LENGTH	STORAGE LENGTH	MEDIAN NOSE RADIUS
EBL	FM1378	100'	485'	2.5'
WBL	FM1378	100'	255'	2.5'
WBR	FM1378	100'	255'	-
WBL	STINSON RD	100'	250'	2.5'
EBL	STA 28+88.00	100'	55'	2.5'
EBL	STA 41+00.00	100'	279'	-
EBR	STA 41+00.00	100'	279'	-
WBL	STA 45+54.35	-	205'	2.5'
WBL	STA 49+06.90	100'	181'	2.5'
EBL	EDGEFIELD LN	100'	357'	2.5'
EBR	STA 53+31.42	100'	-	-

CURVE DATA									
CURVE NO.	P.I. STA.	DELTA	T	L	R	P.R.C. STA.	P.C. STA.	P.T. STA.	P.R.C. STA.
W. LUCAS CURVE - 1	26+27.24	7°24'07.20" (RT)	77.62'	155.03'	1200.00'		25+49.62		27+04.65
W. LUCAS CURVE - 2	27+82.27	7°24'07.20" (LT)	77.62'	155.03'	1200.00'	27+04.65		28+59.68	
W. LUCAS CURVE - 3	40+42.13	9°37'07.09" (LT)	100.96'	201.45'	1200.00'		39+41.16	41+42.61	
W. LUCAS CURVE - 4	43+69.46	10°04'49.20" (RT)	105.83'	211.12'	1200.00'		42+63.62	44+74.75	
W. LUCAS CURVE - 5	52+40.03	8°44'38.45" (RT)	91.75'	183.13'	1200.00'		51+48.28	53+31.42	
W. LUCAS CURVE - 6	56+83.84	8°18'13.33" (RT)	108.89'	217.39'	1500.00'		55+74.95	57+92.34	
HOLY LN. CURVE - 1	10+85.76	48°15'47.18" (RT)	63.18'	33.60'	75.00'		10+52.16 R1		11+15.34 R1
HOLY LN. CURVE - 2	11+56.46	46°48'41.46" (LT)	41.12'	77.62'	95.00'	11+15.34 R1		11+92.95 R1	
STINSON RD. CURVE - 1	10+94.48	2°43'35.21" (RT)	9.52'	19.03'	400.00'		10+84.96 R1	11+03.99 R1	
EDGEFIELD LN. CURVE - 1	11+24.36	29°51'56.48" (LT)	64.01'	125.10'	240.00'		10+60.35 R1	11+85.45 R1	



Texas Department of Transportation

© 2022 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 1378
DRAFT DESIGN SCHEMATIC

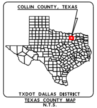
COLLIN COUNTY, TEXAS
FROM FM 3286 TO WEST LUCAS RD
CSJ: 1392-01-048
LENGTH: 0.984 MILES
TERRAIN: LEVEL

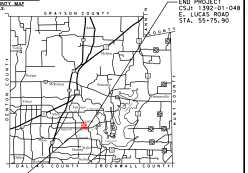
DATED: APRIL 2023

ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 1378	40 MPH	MINOR ARTERIAL
INTERSECTING STREETS	30 MPH	LOCAL

INDEX OF SHEETS

SHEET 1:	FM1378 PLAN & PROFILE
SHEET 2:	INTERSECTION PLAN & PROFILE




END PROJECT
CSJ: 1392-01-048
E. LUCAS ROAD
STA. 55+75.90
GRAYSON COUNTY
FANNIN COUNTY
HUNT COUNTY
DENTON COUNTY
DALLAS COUNTY
ROCKWALL COUNTY

BEGIN PROJECT
CSJ: 1392-01-048
W. LUCAS ROAD
STA. 5+00.00

LOCATION MAP
N.T.S.

LEGEND

EXISTING RIGHT OF WAY LINE	PROPOSED DRIVEWAY CONSTRUCTION OUTSIDE OF ROW
PROPOSED RIGHT OF WAY LINE	EXISTING PAVEMENT REMOVAL
CENTERLINE	PROPOSED CONCRETE PAVEMENT
PARCEL LINE	PROPOSED SIDEWALK
CITY/COUNTY BOUNDARY LINE	PROPOSED DRIVEWAY
EXISTING DRAINAGE	PROPOSED BRIDGE
PROPOSED DITCH BOTTOM	ADJACENT PROJECT - BY OTHERS
PROPOSED DRAINAGE STRUCTURE	PROPOSED ROW ACQUISITION
PROPOSED CULVERT	← PROPOSED LANES
DIRECTION OF FLOW	(#) PARCEL IDENTIFICATION NUMBER
EXISTING 100-YEAR FLOODPLAIN	POTENTIAL IMPACT
C402 RAIL	DISPLACEMENT
METAL BEAM GUARD FENCE (MBGF)	

SCALE: 1"=100' H, 1"=10' V

PRELIMINARY
FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME	P.E. NO.	DATE
STEPHEN A JOHNSON, PE	103591	4/12/2023

GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034

FIRM REGISTRATION NO. 5713

ROLL 1 OF 2

Texas Department of Transportation

© 2022 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 1378
DRAFT DESIGN SCHEMATIC

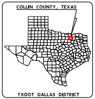
COLLIN COUNTY, TEXAS
FROM FM 3286 TO WEST LUCAS RD
CSJ: 1392-01-048
LENGTH: 0.984 MILES
TERRAIN: LEVEL

DATED: APRIL 2023

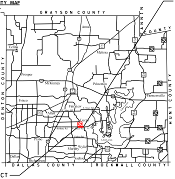
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 1378	40 MPH	MINOR ARTERIAL
INTERSECTING STREETS	30 MPH	LOCAL

INDEX OF SHEETS

SHEET 1: FM1378 PLAN & PROFILE
SHEET 2: INTERSECTION PLAN & PROFILE


COLLIN COUNTY, TEXAS

TXDOT DALLAS DISTRICT
TEXAS COUNTY MAP
N.T.S.


GRAYSON COUNTY
FANNIN COUNTY
DENTON COUNTY
HUNT COUNTY
DALLAS COUNTY
ROCKWALL COUNTY
Anna
Celina
Melissa
Prosper
McKinney
Princeton
Frisco
Farmersville
Fairview
Allen
Lucas
Plano
Wylie
Murphy
Lake Lavon
Sachse
Dallas
Richardson

END PROJECT
CSJ: 1392-01-048
E. LUCAS ROAD
STA. 55+75.90

BEGIN PROJECT
CSJ: 1392-01-048
W. LUCAS ROAD
STA. 5+00.00

LOCATION MAP

N.T.S.

LEGEND

EXISTING RIGHT OF WAY LINE	PROPOSED DRIVEWAY CONSTRUCTION OUTSIDE OF ROW
PROPOSED RIGHT OF WAY LINE	EXISTING PAVEMENT REMOVAL
CENTERLINE	PROPOSED CONCRETE PAVEMENT
PARCEL LINE	PROPOSED SIDEWALK
CITY/COUNTY BOUNDARY LINE	PROPOSED DRIVEWAY
EXISTING DRAINAGE	PROPOSED BRIDGE
PROPOSED DITCH BOTTOM	ADJACENT PROJECT - BY OTHERS
PROPOSED DRAINAGE STRUCTURE	PROPOSED ROW ACQUISITION
PROPOSED CULVERT	PROPOSED LANES
DIRECTION OF FLOW	PARCEL IDENTIFICATION NUMBER
EXISTING 100-YEAR FLOODPLAIN	POTENTIAL IMPACT
C402 RAIL	DISPLACEMENT
METAL BEAM GUARD FENCE (MBGF)	

SCALE: 1"=100' H, 1"=10' V

PRELIMINARY
FOR INTERIM REVIEW ONLY

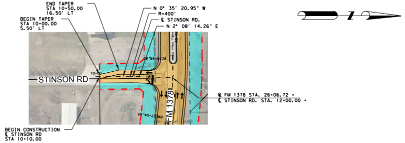
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME	P.E. NO.	DATE
STEPHEN A JOHNSON, PE	103591	4/12/2023

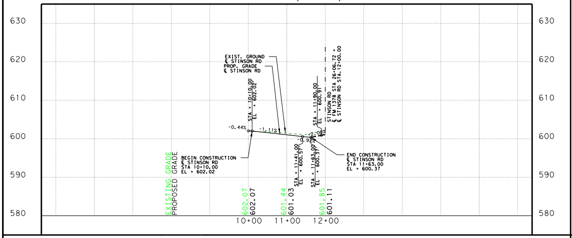
GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034

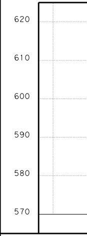
FIRM REGISTRATION NO. 5713

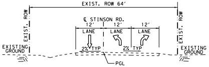
ROLL 2 OF 2


END TAPER
STA 10+50.00
16.50' LT
BEGIN TAPER
STA 10+00.00
5.50' LT
N 0° 35' 20.95" W
R=400'
℄ STINSON RD.
N 2° 08' 14.26" E
STINSON RD
10+00
PC25+49.62
PRC27+04.65
FM 1378
℄ FM 1378 STA. 26+06.72 =
℄ STINSON RD. STA. 12+00.00 =
BEGIN CONSTRUCTION
℄ STINSON RD
STA 10+10.00

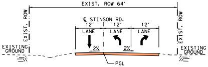
STINSON RD. (30 MPH)





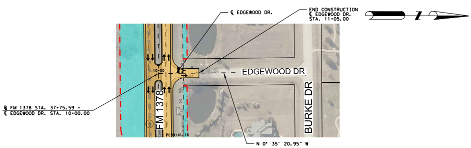

EXIST. ROW 64'
EXIST. ROW
℄ STINSON RD.
12'
LANE
2% TYP
EXISTING GROUND
PGL

EXISTING STINSON RD. TYP

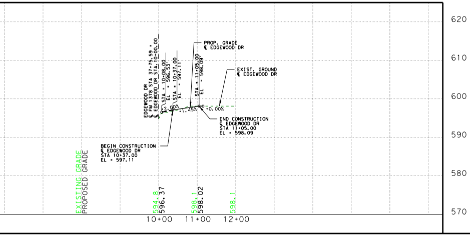

EXIST. ROW 64'
EXIST. ROW
℄ STINSON RD.
12'
LANE
2%
EXISTING GROUND
PGL

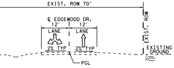
PROPOSED STINSON RD. TYP

EXIST. ROW
EXISTING GROUND

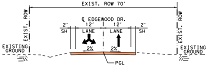

℄ EDGEWOOD DR.
END CONSTRUCTION
℄ EDGEWOOD DR.
STA. 11+05.00
EDGEWOOD DR
BURKE DR
FM 1378
10+00
℄ FM 1378 STA. 37+75.59 =
℄ EDGEWOOD DR. STA. 10+00.00
N 0° 35' 20.95" W

EDGEWOOD DR. (30 MPH)

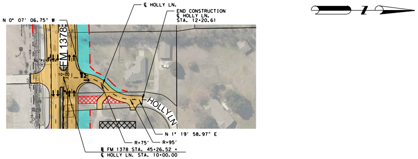



EXIST. ROW 70'
℄ EDGEWOOD DR.
12'
12'
LANE
LANE
2% TYP
2% TYP
EXIST. ROW
EXISTING GROUND
PGL

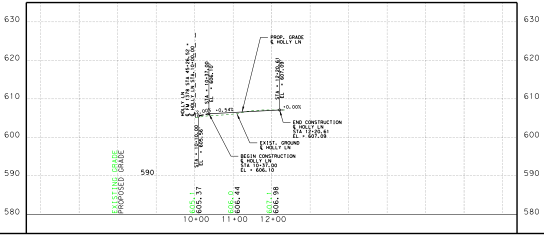
EXISTING EDGEWOOD DR. TYP

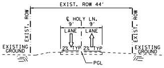

EXIST. ROW 70'
℄ EDGEWOOD DR.
2'
12'
12'
2'
SH
LANE
LANE
SH
2%
2%
EXIST. ROW
EXISTING GROUND
EXIST. ROW
EXISTING GROUND
PGL

PROPOSED EDGEWOOD DR. TYP

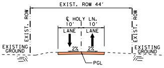

℄ HOLLY LN.
END CONSTRUCTION
℄ HOLLY LN.
STA. 12+20.61
N 0° 07' 06.75" W
FM 1378
10+00
HOLLY LN
N 1° 19' 58.97" E
R=75'
R=95'
℄ FM 1378 STA. 45+26.52 =
℄ HOLLY LN. STA. 10+00.00

HOLLY LN. (30 MPH)

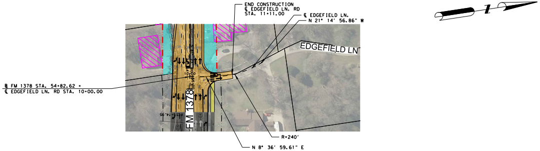



EXIST. ROW 44'
℄ HOLY LN.
9'
9'
LANE
LANE
2% TYP
2% TYP
EXIST. ROW
EXISTING GROUND
EXIST. ROW
EXISTING GROUND
PGL

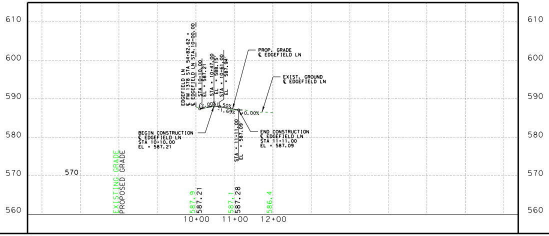
EXISTING HOLY LN. TYP

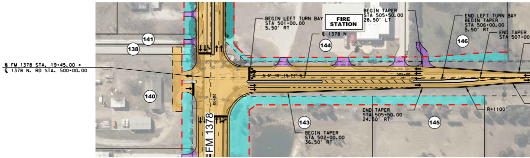

EXIST. ROW 44'
℄ HOLY LN.
10'
10'
LANE
LANE
2%
2%
EXIST. ROW
EXISTING GROUND
EXIST. ROW
EXISTING GROUND
PGL

PROPOSED HOLY LN. TYP

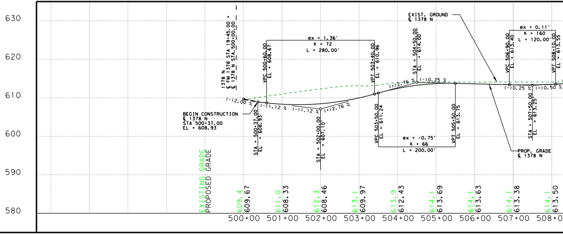

END CONSTRUCTION
℄ EDGEFIELD LN. RD
STA. 11+11.00
℄ EDGEFIELD LN.
N 21° 14' 56.86" W
EDGEFIELD LN
℄ FM 1378 STA. 54+82.62 =
℄ EDGEFIELD LN. RD STA. 10+00.00
FM 1378
R=240'
N 8° 36' 59.61" E

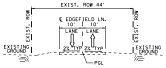
EDGEFIELD LN. (30 MPH)



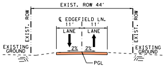

℄ FM 1378 STA. 19+45.00 =
℄ 1378 N. RD STA. 500+00.00
141
138
140
FM 1378
BEGIN LEFT TURN BAY
STA 501+00.00
5.50' RT
FIRE STATION
℄ 1378 N
144
BEGIN TAPER
STA 505+50.00
28.50' LT
END LEFT TURN BAY
BEGIN TAPER
STA 506+00.00
5.50' RT
END TAPER
STA 507+00
146
N 0° 43' 15.74" W
505+00
END TAPER
STA 505+50.00
24.50' RT
R=1100'
143
BEGIN TAPER
STA 502+00.00
36.50' RT
145

FM 1378 (COUNTRY CLUB RD.)

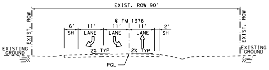



EXIST. ROW 44'
EXIST. ROW
℄ EDGEFIELD LN.
10'
10'
LANE
LANE
2% TYP
2% TYP
EXISTING GROUND
PGL

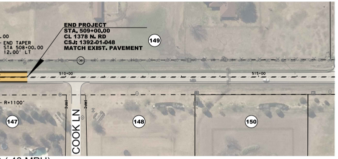
EXISTING EDGEFIELD LN. TYP


EXIST. ROW 44'
EXIST. ROW
℄ EDGEFIELD LN.
11'
11'
LANE
LANE
2%
2%
EXISTING GROUND
PGL

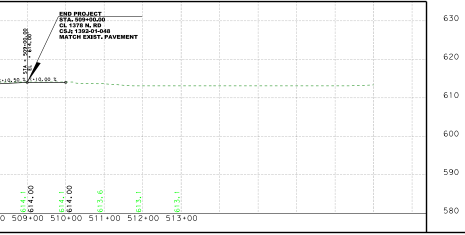
PROPOSED EDGEFIELD LN. TYP

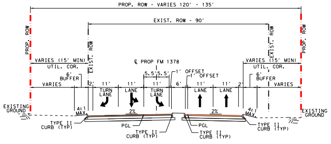

EXIST. ROW 90'
EXIST. ROW
℄ FM 1378
6'
11'
11'
11'
2'
SH
LANE
LANE
LANE
SH
2% TYP
2% TYP
EXISTING GROUND
PGL

EXISTING FM 1378 TYP


.00
END TAPER
STA 508+00.00
12.00' LT
END PROJECT
STA. 509+00.00
CL 1378 N. RD
CSJ: 1392-01-048
MATCH EXIST. PAVEMENT
149
510+00
515+00
R=1100'
147
COOK LN
148
150

) (40 MPH)




PROP. ROW - VARIES 120' - 135'
EXIST. ROW - 90'
PROP. ROW
EXIST. ROW
VARIES (15' MIN)
UTIL. COR.
℄ PROP FM 1378
6' BUFFER
VARIES
2'
11'
TURN LANE
11'
LANE
5.5' 5.5'
11'
TURN LANE
1' OFFSET
1' OFFSET
6'
11'
LANE
11'
LANE
2'
EXISTING GROUND
4:1 MAX.
2%
PGL
TYPE II CURB (TYP)

PROPOSED FM 1378 TYP
STA. 500+00 TO STA. 503+78

Texas Department of Transportation

© 2022 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 1378
DRAFT DESIGN SCHEMATIC

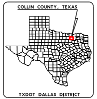
COLLIN COUNTY, TEXAS
FROM FM 3286 TO WEST LUCAS RD
CSJ: 1392-01-048
LENGTH: 0.984 MILES
TERRAIN: LEVEL

DATED: APRIL 2023

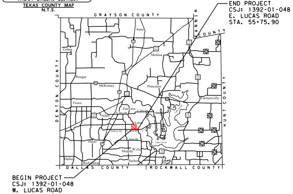
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 1378	40 MPH	MINOR ARTERIAL
INTERSECTING STREETS	30 MPH	LOCAL

INDEX OF SHEETS

SHEET 1:	FM1378 PLAN & PROFILE
SHEET 2:	INTERSECTION PLAN & PROFILE


COLLIN COUNTY, TEXAS

TXDOT DALLAS DISTRICT
TEXAS COUNTY MAP
N.T.S.


END PROJECT
CSJ: 1392-01-048
E. LUCAS ROAD
STA. 55+75.90
GRAYSON COUNTY
FANNIN COUNTY
DENTON COUNTY
HUNT COUNTY
DALLAS COUNTY
ROCKWALL COUNTY
Anna
Celina
Melissa
Prosper
McKinney
Princeton
Farmersville
Frisco
Fairview
Allen
Lucas
Plano
Murphy
Wylie
Sachse
Richardson
Dallas
BEGIN PROJECT
CSJ: 1392-01-048
W. LUCAS ROAD
STA. 5+00.00

LOCATION MAP
N.T.S.

LEGEND

—·—·—	EXISTING RIGHT OF WAY LINE	—··—	PROPOSED DRIVEWAY CONSTRUCTION OUTSIDE OF ROW
🟥 —··—	PROPOSED RIGHT OF WAY LINE	▨	EXISTING PAVEMENT REMOVAL
—·—·—	CENTERLINE	🟧	PROPOSED CONCRETE PAVEMENT
———	PARCEL LINE	🟨	PROPOSED SIDEWALK
— — — ·	CITY/COUNTY BOUNDARY LINE	🟪	PROPOSED DRIVEWAY
- - - -	EXISTING DRAINAGE	🟦	PROPOSED BRIDGE
———	PROPOSED DITCH BOTTOM	▭	ADJACENT PROJECT - BY OTHERS
🟩	PROPOSED DRAINAGE STRUCTURE	▭	PROPOSED ROW ACQUISITION
- - - -	PROPOSED CULVERT	←	PROPOSED LANES
◄∿	DIRECTION OF FLOW	(#)	PARCEL IDENTIFICATION NUMBER
▨	EXISTING 100-YEAR FLOODPLAIN	⊠	POTENTIAL IMPACT
▭	C402 RAIL	▨	DISPLACEMENT
▭	METAL BEAM GUARD FENCE (MBGF)		

SCALE: 1"=100' H, 1"=10' V

PRELIMINARY
FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME	P.E. NO.	DATE
STEPHEN A JOHNSON, PE	103591	4/12/2023

GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034

FIRM REGISTRATION NO. 5713

ROLL 2 OF 2