Texas Department of Transportation

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

FM 1387
DESIGN SCHEMATIC

ELLIS COUNTY, TEXAS

FROM NORTH MIDLOTHIAN PARKWAY TO FM 664
CSJ: 1394-02-027
LENGTH: 5.2 MILES

DATED: JULY 2022

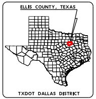
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 1387	40 MPH	PRINCIPAL ARTERIAL
INTERSECTING STREETS	30 MPH	LOCAL

INDEX OF SHEETS

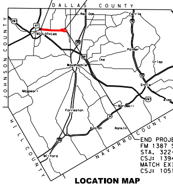
ROLL 1 OF 10: PLAN & PROFILE VIEW STA. 19+00 TO STA. 95+00
ROLL 2 OF 10: PLAN & PROFILE VIEW STA. 95+00 TO STA. 164+00
ROLL 3 OF 10: PLAN & PROFILE VIEW STA. 164+00 TO STA. 228+00
ROLL 4 OF 10: PLAN & PROFILE VIEW STA. 228+00 TO STA. 297+92 (NORTH ALTERNATIVE)
ROLL 5 OF 10: PLAN & PROFILE VIEW STA. 229+00 TO STA. 286+00 (SOUTH ALTERNATIVE)
ROLL 6 OF 10: PLAN & PROFILE VIEW STA. 286+00 TO STA. 322+08 (SOUTH ALTERNATIVE)
■ROLL 7 OF 10: SUPPLEMENTAL SIDE STREET PROFILES
■ROLL 8 OF 10: SUPPLEMENTAL SIDE STREET PROFILES
■ROLL 9 OF 10: SUPPLEMENTAL SIDE STREET PROFILES (NORTH ALTERNATIVE)
■ROLL 10 OF 10: SUPPLEMENTAL SIDE STREET PROFILES (SOUTH ALTERNATIVE)

■NOT INCLUDED

ROLL 4 OF 10


ELLIS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.


DALLAS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
Red Oak
Ferris
MIDLOTHIAN
Palmer
Ike
Waxahachie
Crisp
Ennis
Maypearl
Bardwell
Alma
Forreston
Avalon
Rankin
Milford
287
67
45
35E
34

BEGIN PROJECT
CSJ: 1394-02-027
FM 1387
STA. 19+00

END PROJECT
FM 1387 NORTH ALTERNATIVE
STA. 297+92
CSJ: 1394-02-027
MATCH EXIST. PROJ. BY OTHERS
CSJ: 1051-01-038

END PROJECT
FM 1387 SOUTH ALTERNATIVE
STA. 322+08
CSJ: 1394-02-027
MATCH EXIST. PROJ. BY OTHERS
CSJ: 1051-01-038

LOCATION MAP
N.T.S.

LEGEND

—·—·—	EXISTING RIGHT OF WAY LINE	▬	PROPOSED CONCRETE PAVEMENT
—·—·—	PROPOSED RIGHT OF WAY LINE	▬	PROPOSED SIDEWALK
—·—·—	CENTERLINE	▬	PROPOSED DRIVEWAY
——	PARCEL LINE	▬	ADJACENT PROJECT - BY OTHERS
— — —	CITY/COUNTY BOUNDARY LINE	▬	PROPOSED ROW ACQUISITION
- - - -	EXISTING DRAINAGE	←	PROPOSED LANES
—·◄·—	PROPOSED DITCH BOTTOM	(#)	PARCEL IDENTIFYING NUMBER
▥	PROPOSED DRAINAGE STRUCTURE	▨	EXISTING PAVEMENT REMOVAL
——	PROPOSED RETAINING WALL	▨	DISPLACEMENT
◄∿	DIRECTION OF FLOW	▬	CURB WALL
▨	EXISTING 100-YEAR FLOODPLAIN	▬	METAL BEAM GUARD FENCE (MBGF)

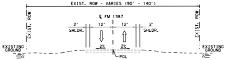
SCALE: 1"=100' H, 1"=10' V

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:

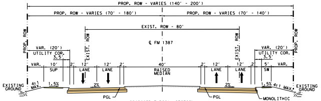
NAME	P.E. NO.	DATE
RANDY L GROS, PE	134559	07/29/2022

GARVER
3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034

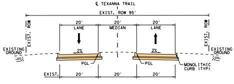
FIRM REGISTRATION NO. 5713


EXIST. ROW - VARIES (90' - 140')
℄ FM 1387
2'
12'
12'
2'
SHLDR.
SHLDR.
EXIST. ROW
EXIST. ROW
2%
2%
EXISTING GROUND
EXISTING GROUND
PGL

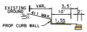
EXISTING TYPICAL SECTION
FM 1387 (STA. 229+00 TO STA. 296+24)


PROP. ROW - VARIES (140' - 200')
PROP. ROW - VARIES (70' - 180')
PROP. ROW - VARIES (70' - 140')
EXIST. ROW - 80'
℄ FM 1387
PROP. ROW
EXIST. ROW
EXIST. ROW
PROP. ROW
VAR. (20')
UTILITY COR.
3.5'
VAR.
10'
SUP
2'
12'
LANE
12'
LANE
2'
40'
RAISED MEDIAN
2'
12'
LANE
12'
LANE
2'
5'
SW
VAR.
VAR. (20')
UTILITY COR.
3.5'
4:1 MAX.
1.5%
2%
2%
1.5%
4:1 MAX.
EXISTING GROUND
EXISTING GROUND
PGL
PGL
MONOLITHIC CURB (TYP)

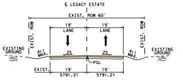
PROPOSED TYPICAL SECTION
FM 1387 (STA. 228+00 TO STA. 297+92.78)


℄ TEXANNA TRAIL
EXIST. ROW 95'
EXIST. ROW
EXIST. ROW
20'
LANE
20'
MEDIAN
20'
LANE
2%
2%
EXISTING GROUND
EXISTING GROUND
PGL
PGL
MONOLITHIC CURB (TYP)
EXIST.
20'
20'
20'

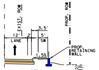
PROPOSED TYPICAL SECTION
TEXANNA TRAIL (STA. 10+50 TO STA. 10+91)


EXISTING GROUND
VAR.
3.5'
10'
2'
4:1 MAX.
1.5%
PROP CURB WALL

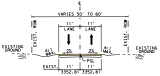
DETAIL "A"
(STA. 251+50 TO 255+50) LT.
(STA. 256+25 TO 265+25) LT.


℄ LEGACY ESTATE
EXIST. ROW 60'
EXIST. ROW
EXIST. ROW
19'
LANE
19'
LANE
EXISTING GROUND
EXISTING GROUND
4:1 MAX.
4:1 MAX.
2%
2%
PGL
EXIST.
19'
19'
5791.21
5791.21

PROPOSED TYPICAL SECTION
LEGACY ESTATE (STA. 10+50 TO STA. 12+00)


EXIST. ROW
PROP. ROW
3.5'
12'
LANE
2'
5'
SW
1.5%
PROP. RETAINING WALL

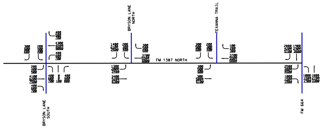
DETAIL "B"
FM 1387 RETAINING WALL
(STA. 262+00 TO 264+00) RT.


℄
VARIES 50' TO 60'
EXIST. ROW
EXIST. ROW
11'
LANE
11'
LANE
EXISTING GROUND
EXISTING GROUND
4:1 MAX.
4:1 MAX.
2%
2%
PGL
EXIST.
11'
11'
3352.81
3352.81

PROPOSED TYPICAL SECTION
BRYSON LANE (STA. 11+40 TO STA. 12+53) (SOUTH)
BRYSON LANE (STA. 11+50 TO STA. 11+68) (NORTH)
BLACKCHAMP ROAD (STA. 10+66 TO STA. 12+50)

TYPICAL SECTIONS [N.T.S.]

LEGEND
OPENING YEAR (2025)
DESIGN YEAR (2045)
PAVEMENT YEAR (2055)

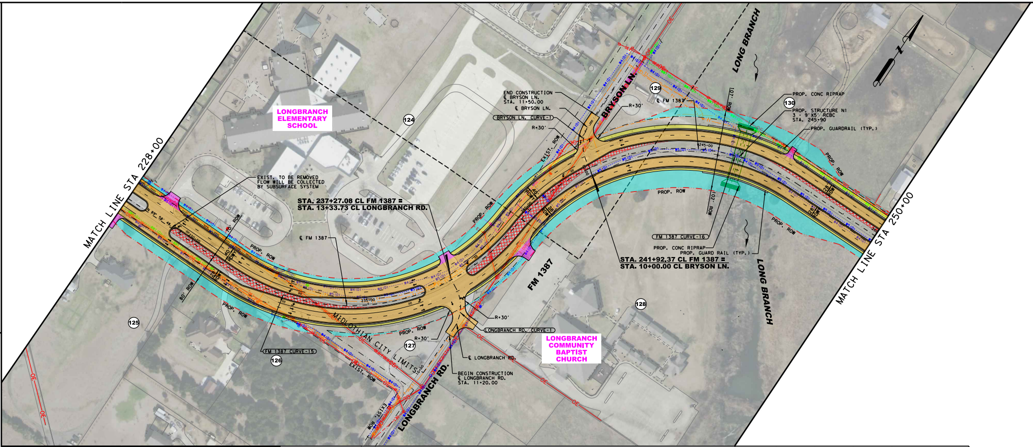

BRYSON LANE NORTH
TEXANNA TRAIL
FM 1387 NORTH
BRYSON LANE SOUTH
FM 664

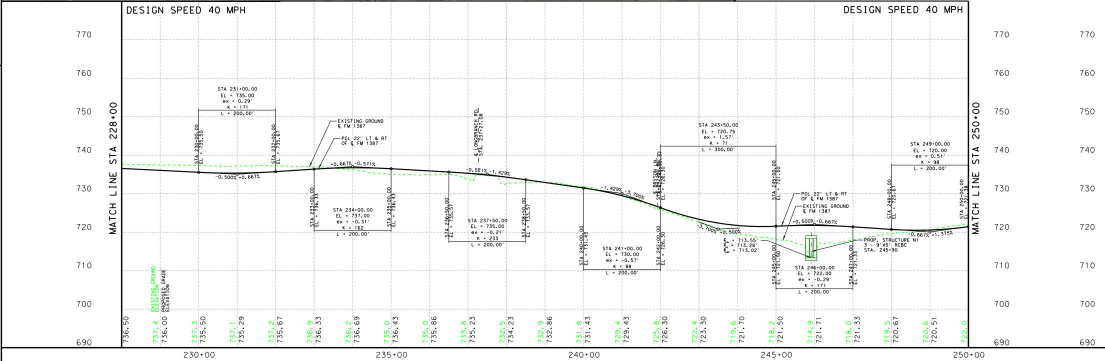
NOTE:
SOURCE OF DATA: TXDOT, TRANSPORTATION PROGRAMMING AND PLANNING DIVISION MEMORANDUM, NOVEMBER 16, 2017.

TRAFFIC LINE DIAGRAM [N.T.S.]

PARCEL NO.	TAX ID	OWNER'S NAME	OWNER'S ADDRESS	CITY	STATE	ZIP	SITUS ADDRESS	ACRES	LEGAL DESCRIPTION
124	202345	MIDLOTHIAN ISD	925 S 9TH ST	MIDLOTHIAN	TX	76065-3636	6631 FM 1387 MIDLOTHIAN, TX 76065	16.422	252 R M CRAIG 16.422 ACRES
125	152865	COOK JAMES R	6610 FM 1387	MIDLOTHIAN	TX	76065-5210	6610 FM 1387 MIDLOTHIAN, TX 76065	4.26	14 MULBERRY HILL PH I4.26 ACRES
126	152866	SNEED DERWIN L & KARLA L	6630 FM 1387	MIDLOTHIAN	TX	76065-5210	6630 FM 1387 MIDLOTHIAN, TX 76065	4.55	LOT 15 MULBERRY HILL-REV 4.55 AC
127	202062	ADERMAN PATRICK E	813 TARPON AVE	PORT ISABEL	TX	78578-4507	6441 FM 1387 MIDLOTHIAN, TX 76065	0.635	252 R M CRAIG 0.6350 ACRES
128	206536	LONGBRANCH COMMUNITY BAPTIST CHURCH	200 LONGBRANCH RD	MIDLOTHIAN	TX	76065-5242	200 LONGBRANCH RD MIDLOTHIAN, TX 76065	8.336	843 M POWERS 8.336 ACRES
129	202061	MR W FIREWORKS	PO BOX 114	SOMERSET	TX	78069-0114	708 BRYSON RD MIDLOTHIAN, TX 76065	0.578	843 M POWERS 0.578 ACRES
130	194010	SAINT LOUP THIERRY P	770 BRYSON LN	MIDLOTHIAN	TX	76065	1387 BRYSON LN MIDLOTHIAN, TX 76065	8.44	793 A R NEWTON 8.44 ACRES
131	196382	TODD JEFFREY & ANGELA	6881 FM 1387	WAXAHACHIE	TX	75167-9397	6881 FM 1387 WAXAHACHIE, TX 75167	2.717	793 A R NEWTON 2.717 ACRES
132	240694	JUDGE CLETUS E & MARIETTA V	7002 CATTLE BARRON CT	MIDLOTHIAN	TX	76065	7002 CATTLE BARRON CT MIDLOTHIAN, TX 76065	0.586	LOT 3A BLK A TEXANNA RANCH PH 1 - REV .586 AC
133	240693	GIBSON DANIEL W & JANAE M	7006 CATTLE BARRON CT	MIDLOTHIAN	TX	76065	7006 CATTLE BARRON CT MIDLOTHIAN, TX 76065	0.542	LOT 2A BLK A TEXANNA RANCH PH 1 - REV .542 AC
134	227296	PEDERSEN HERBERT L & BARBARA G	511 LINKCREST DR	DUNCANVILLE	TX	75137-3911	FM 1387 MIDLOTHIAN, TX 76065	10.925	843 M POWERS 10.925 ACRES
135	240692	CARR FORREST R II & SHANNON M	7010 CATTLE BARRON CT	MIDLOTHIAN	TX	76065	7010 CATTLE BARRON CT MIDLOTHIAN, TX 76065	0.433	LOT 1A BLK A TEXANNA RANCH PH 1 - REV .433 AC
136	240717	THORTON WILLIAM D & HEATHER S	7202 CATTLE BARRON CT	MIDLOTHIAN	TX	76065-3953	7202 CATTLE BARRON CT MIDLOTHIAN, TX 76065	0.406	LOT 1A BLK B TEXANNA RANCH PH 1 - REV .406 AC
137	196538	PEDERSEN HERBERT L & BARBARA G	511 LINKCREST DR	DUNCANVILLE	TX	75137-3911	FM 1387 MIDLOTHIAN, TX 76065	14.65	843 M POWERS 14.65 ACRES
138	196471	PETTER FAMILY REVOCABLE LIVING TRUST- WILLIAM L & MILDRED J PETTER TRUSTEES	7240 FM 1387	WAXAHACHIE	TX	75167-9374	7240 FM 1387 WAXAHACHIE, TX 75167	10	843 M POWERS 10 ACRES
139	243563	DIECKMANN SCOTT C	7206 CATTLE BARRON CT	MIDLOTHIAN	TX	76065-3953	7206 CATTLE BARRON CT MIDLOTHIAN, TX 76065	0.4247	LOT 2 BLK B TEXANNA RANCH PH 2 .4247 AC
140	243564	STEPHENS BILLY & JULIE	7210 CATTLE BARRON CT	MIDLOTHIAN	TX	76065-3953	7210 CATTLE BARRON CT MIDLOTHIAN, TX 76065	0.5411	LOT 3 BLK B TEXANNA RANCH PH 2 0.5411 AC
141	258886	A1 U STOR IT LLC	209 SPRINGDALE CT	PALMER	TX	75152-9750	141 BLACK CHAMP RD WAXAHACHIE, TX 75165	10	843 M POWERS 10 ACRES
142	188428	GINN THOMAS T	213 YORKSHIRE CT	DEER PARK	TX	77536-8117	FM 1387 MIDLOTHIAN, TX 76065	20.07	793 A R NEWTON 20.07 ACRES
143	240378	SMITH AMY KAY	110 BLACK CHAMP RD	WAXAHACHIE	TX	75167-9424	110 BLACK CHAMP RD WAXAHACHIE, TX 75167	1.059	843 M POWERS 1.059 ACRES
144	189271	MARKS NANCY	7420 FM 1387	WAXAHACHIE	TX	75167-9376	7420 FM 1387 MIDLOTHIAN, TX 76065	9.246	843 M POWERS 9.246 ACRES
145	188433	COSTON SANDRA HAHN	7441 FM 1387	WAXAHACHIE	TX	75167-9200	7441 FM 1387 WAXAHACHIE, TX 75167	13	793 A R NEWTON 13 ACRES
146	188434	COSTON SANDRA HAHN	7441 FM 1387	WAXAHACHIE	TX	75167-9200	7441 FM 1387 WAXAHACHIE, TX 75167	2	793 A R NEWTON 2 ACRES
147	188432	COSTON SANDRA HAHN	7441 FM 1387	WAXAHACHIE	TX	75167-9200	7441 FM 1387 WAXAHACHIE, TX 75167	1.872	793 A R NEWTON 1.872 ACRES
148	188514	SMITH AMY KAY & KENNETH W MARKS	7490 FM 1387	WAXAHACHIE	TX	75167-9376	FM 1387 WAXAHACHIE, TX 75167	69.826	793 A R NEWTON;843 M POWERS 69.826 ACRES
149	215995	MARKS KENNETH WAYNE & FELICIA F	7490 FM 1387	WAXAHACHIE	TX	75167-9376	7490 FM 1387 WAXAHACHIE, TX 75167	2	843 M POWERS 2.0 ACRES
150	140164	DELINGER MARGARET & HAMM STEPHEN & HILL SHEIL	7451 FM 1387	WAXAHACHIE	TX	75167-9200	FM 664 MIDLOTHIAN, TX 76065	1.582	793 A R NEWTON 1.582 ACRES
151	203989	GARDUNO PLATA IVAN & MARISELA CASTRO	7481 FM 1387	WAXAHACHIE	TX	75167	7481 FM 1387 WAXAHACHIE, TX 75167	2.971	LOT 1 MID-VILLA ESTS- REV 2.971 AC
152	203990	BELL TRAVIS	7491 FM 1387	WAXAHACHIE	TX	75167	7491 FM 1387 WAXAHACHIE, TX 75167	4.502	LOT 2 MID-VILLA ESTS- REV 4.502 AC
153	188440	BURWELL THOMAS E	7611 FM 1387	WAXAHACHIE	TX	75167-9202	7611 FM 1387 WAXAHACHIE, TX 75167	2	793 A R NEWTON 2 ACRES
154	188441	BARIL ROBERT R & RENEE R	7621 FM 1387	WAXAHACHIE	TX	75167-9202	7621 FM 1387 WAXAHACHIE, TX 75167	3	793 A R NEWTON 3 ACRES
155	188502	FRANCO JOSEPH & JANA	7631 FM 1387	WAXAHACHIE	TX	75167	7631 FM 1387 WAXAHACHIE, TX 75167	2.616	793 A R NEWTON 2.616 ACRES
156	188504	RODRIGUEZ DANIEL RICARDO & MARTHA J	7641 FM 1387	WAXAHACHIE	TX	75167	7641 FM 1387 WAXAHACHIE, TX 75167	2.18	793 A R NEWTON 2.18 ACRES
157	188514	SMITH AMY KAY & KENNETH W MARKS	7490 FM 1387	WAXAHACHIE	TX	75167-9376	FM 1387 WAXAHACHIE, TX 75167	69.826	793 A R NEWTON;843 M POWERS 69.826 ACRES
158	208446	SMITH AMY KAY & GREGORY M	110 BLACKCHAMP	WAXAHACHIE	TX	75167-9424	FM 1387 MIDLOTHIAN, TX 76065	0.442	793 A R NEWTON 0.442 ACRES
159	188505	BARNIDGE WILLIE F & LINDA H	PO BOX 662	RED OAK	TX	75154-0662	7811 FM 1387 WAXAHACHIE, TX 75167	2.18	793 A R NEWTON 2.18 ACRES
160	188514	SMITH AMY KAY & KENNETH W MARKS	7490 FM 1387	WAXAHACHIE	TX	75167-9376	FM 1387 WAXAHACHIE, TX 75167	69.826	793 A R NEWTON;843 M POWERS 69.826 ACRES
161	188493	RUSSELL RONALD A & ANDREA M	104 E OVILLA RD UNIT 1071	RED OAK	TX	75154-9271	7821 FM 1387 WAXAHACHIE, TX 75167	2.62	793 A R NEWTON 2.62 ACRES
162	188515	GUZMAN ADOLPH J & MARSHA D	7831 FM 1387	WAXAHACHIE	TX	75167-9204	7831 FM 1387 WAXAHACHIE, TX 75167	2.18	793 A R NEWTON 2.18 ACRES
163	266642	J HOUSTON HOMES LLC	PO BOX 2829	RED OAK	TX	75154	211 LEGACY ESTATES DR WAXAHACHIE, TX 75167	1.03	LOT 1 BLK 4 LEGACY ESTATES PH 1 1.03 AC
164	188438	ASHLEY DWAYNE S & RISA R	7841 FM 1387	WAXAHACHIE	TX	75167-9204	7841 FM 1387 WAXAHACHIE, TX 75167	2.184	793 A R NEWTON 2.184 ACRES
165	266673	T & S LEGACY MODEL HOME LLC	7 STONE BRIDGE CT	MONTCLAIR	NJ	07042	210 LEGACY ESTATES DR WAXAHACHIE, TX 75167	1.028	LOT 1 BLK 5 LEGACY ESTATES PH 1 1.028 AC
166	203991	TENNISON EVELYN E & TENNISON RICHARD D	7851 FM 1387	WAXAHACHIE	TX	75167-9204	7851 FM 1387 WAXAHACHIE, TX 75167	2.181	LOT 3 MID-VILLA ESTS- REV 2.181 AC
167	203992	DAVIS LINDA S	8011 FM 1387	WAXAHACHIE	TX	75167-9224	8011 FM 1387 WAXAHACHIE, TX 75167	2.182	4 MID-VILLA ESTS 2.182 ACRES
168	203993	TOWNSEND JOSHUA B	8021 FM 1387	WAXAHACHIE	TX	75167	8021 FM 1387 WAXAHACHIE, TX 75167	2.182	LOT 5 MID-VILLA ESTS- REV 2.182 AC
169	266675	BRADFORD KERRIC & DESIREE	7851 MARKS DR	WAXAHACHIE	TX	75167	7851 MARKS DR WAXAHACHIE, TX 75167	1.177	LOT 3 BLK 5 LEGACY ESTATES PH 1 1.177 AC
170	203984	RICH KENNETH & JANIS	8031 FM 1387	WAXAHACHIE	TX	75167-9224	8031 FM 1387 WAXAHACHIE, TX 75167	2.182	6 MID-VILLA ESTS 2.182 ACRES
171	266676	ALEXANDER CLIFFORD S & JACQUELINE WALTER	7861 MARKS DR	WAXAHACHIE	TX	75167	7861 MARKS DR WAXAHACHIE, TX 75167	1.002	LOT 4 BLK 5 LEGACY ESTATES PH 1 1.002 AC
172	266677	JACKSON ANTONIOUS & LAKEISHA R	7871 MARKS DR	WAXAHACHIE	TX	75167	7871 MARKS DR WAXAHACHIE, TX 75167	1.389	LOT 5 BLK 5 LEGACY ESTATES PH 1 1.389 AC
173	203985	KING SONDRA	8041 FM 1387	WAXAHACHIE	TX	75167-9224	8041 FM 1387 WAXAHACHIE, TX 75167	1.424	7 MID-VILLA ESTS 1.424 ACRES

PARCEL OWNER INFORMATION TABLE


MATCH LINE STA 228+00
MATCH LINE STA 250+00
LONGBRANCH ELEMENTARY SCHOOL
LONGBRANCH COMMUNITY BAPTIST CHURCH
124
125
126
127
128
129
130
EXIST. TO BE REMOVED FLOW WILL BE COLLECTED BY SUBSURFACE SYSTEM
N 89° 58' 48
70' ROW
80' ROW
40' RDWY
28' RDW
PROP. ROW
EXIST. ROW
STA. 237+27.08 CL FM 1387 =
STA. 13+33.73 CL LONGBRANCH RD.
℄ FM 1387
230+00
235+00
240+00
245+00
FM 1387 CURVE-15
MIDLOTHIAN CITY LIMITS
R=30'
LONGBRANCH RD. CURVE-1
℄ LONGBRANCH RD.
BEGIN CONSTRUCTION
℄ LONGBRANCH RD.
STA. 11+20.00
LONGBRANCH RD.
FM 1387
END CONSTRUCTION
℄ BRYSON LN.
STA. 11+50.00
℄ BRYSON LN.
BRYSON LN. CURVE-1
BRYSON LN.
EXIST. ROW
℄ FM 1387
107' ROW
102' ROW
LONG BRANCH
PROP. CONC RIPRAP
PROP. STRUCTURE N1
3 - 9'X5' RCBC
STA. 245+90
PROP. GUARDRAIL (TYP.)
FM 1387 CURVE-16
PROP. CONC RIPRAP
PROP. GUARD RAIL (TYP.)
STA. 241+92.37 CL FM 1387 =
STA. 10+00.00 CL BRYSON LN.
LONG BRANCH
W4(D)
W5(D)
OE


DESIGN SPEED 40 MPH
DESIGN SPEED 40 MPH
MATCH LINE STA 228+00
MATCH LINE STA 250+00
770
760
750
740
730
720
710
700
690
STA 231+00.00
EL = 735.00
ex = 0.29'
K = 171
L = 200.00'
STA 230+00.00
EL = 735.50
STA 232+00.00
EL = 735.67
-0.500% +0.667%
EXISTING GROUND
℄ FM 1387
PGL 22' LT & RT
OF ℄ FM 1387
+0.667% -0.571%
STA 233+00.00
EL = 736.33
STA 234+00.00
EL = 737.00
ex = -0.31'
K = 162
L = 200.00'
STA 235+00.00
EL = 736.43
℄ LONGBRANCH RD.
STA. 237+27.08
-0.571% -1.429%
STA 236+50.00
EL = 735.57
STA 237+50.00
EL = 735.00
ex = -0.21'
K = 233
L = 200.00'
STA 238+50.00
EL = 733.57
-1.429% -3.700%
STA 240+00.00
EL = 731.43
STA 241+00.00
EL = 730.00
ex = -0.57'
K = 88
L = 200.00'
℄ BRYSON LN.
STA 241+92.37
STA 242+00.00
EL = 726.30
STA 243+50.00
EL = 720.75
ex = 1.57'
K = 71
L = 300.00'
-3.700% +0.500%
EL = 713.55'
EL = 713.28'
EL = 713.02'
STA 245+00.00
EL = 721.50
PGL 22' LT & RT
OF ℄ FM 1387
EXISTING GROUND
℄ FM 1387
+0.500% -0.667%
PROP. STRUCTURE N1
3 - 9'X5' RCBC
STA. 245+90
STA 246+00.00
EL = 722.00
ex = -0.29'
K = 171
L = 200.00'
STA 247+00.00
EL = 721.33
STA 248+00.00
EL = 720.67
STA 249+00.00
EL = 720.00
ex = 0.51'
K = 98
L = 200.00'
-0.667% +1.375%
STA 250+00.00
EL = 721.38
EXISTING GROUND ELEVATION
PROPOSED GRADE ELEVATION
736.50
737.4
736.00
737.3
735.50
737.1
735.29
737.2
735.67
736.9
736.33
736.2
736.69
735.0
736.43
735.0
735.86
733.8
735.23
732.5
734.23
732.9
732.86
731.8
731.43
729.4
729.43
725.8
726.30
722.4
723.30
719.6
721.70
718.2
721.50
714.9
721.71
718.0
721.33
719.5
720.67
720.6
720.51
722.0
230+00
235+00
240+00
245+00
250+00

CURVE NO.	P.I. STA.	DELTA	T	L	R	P.C. STA.	P.T. STA.
FM 1387 CURVE - 15	236+30.22	85°36′13.95" (LT)	509.34′	821.74′	550.00′	231+20.88	239+42.62
FM 1387 CURVE - 16	244+44.79	84°47′37.38" (RT)	502.16′	813.96′	550.00′	239+42.62	247+56.58
FM 1387 CURVE - 17	268+17.50	52°18′58.25" (LT)	319.24′	593.50′	650.00′	264+98.25	270+91.76
FM 1387 CURVE - 18	275+47.20	52°19′54.85" (RT)	319.36	593.68′	650.00′	272+27.84	278+21.53
FM 1387 CURVE - 19	296+73.14	17°09′47.79" (LT)	98.09′	194.71′	650.00′	295+75.05	297+69.76
N. BRYSON CURVE - 1	11+31.41	57°16′33.09" (RT)	33.86′	61.98′	62.00′	10+97.56	11+59.54
S. BRYSON CURVE - 1	11+85.40	51°21′45.43" (LT)	24.04′	44.82′	50.00′	11+61.35	12+06.17
S. BRYSON CURVE - 2	12+54.46	7°38′20.44" (LT)	10.01′	20.00′	150.00′	12+44.45	12+64.45
TEXANNA TR. CURVE - 1	13+12.81	25°22′33.27" (RT)	135.08′	265.74′	600.00′	11+77.73	14+43.46
BLACK CHAMP RD. CURVE - 1	11+74.41	12°59′46.83" (LT)	39.87′	79.39′	350.00′	11+34.54	12+13.93

SUPERELEVATION TABLE

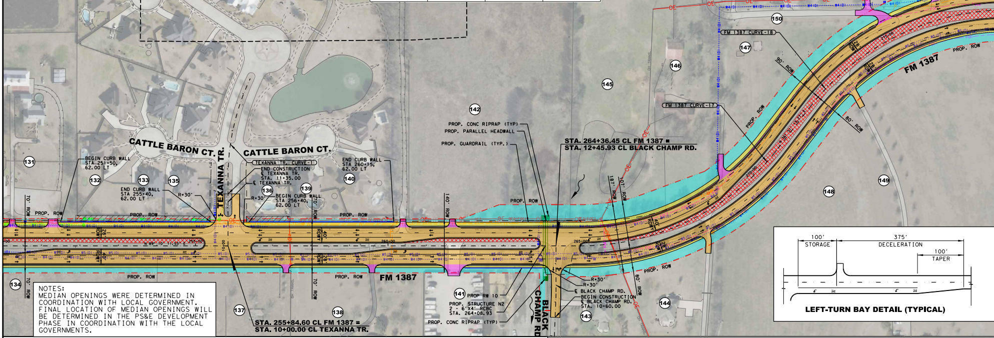
EASTBOUND STATION	SUPERELEVATION e%	WESTBOUND STATION	SUPERELEVATION e%
228+80.00	-2.00%	230+30.00	+2.00%
231+40.00	+4.00%	231+30.00	+4.00%
237+72.00	+4.00%	237+72.00	+4.00%
241+12.00	-4.00%	241+12.00	-4.00%
246+66.00	-4.00%	247+36.00	-4.00%
247+66.00	-2.00%	249+96.00	+2.00%
263+40.00	-2.00%	271+10.00	+2.00%
265+10.00	+2.00%	272+80.00	-2.00%
270+05.00	+2.00%	278+10.00	-2.00%
271+75.00	-2.00%	279+80.00	+2.00%

TURN LANE DETAILS

DIRECTION	INTERSECTION	TAPER LENGTH	STORAGE LENGTH	MEDIAN NOSE RADIUS
WBL	STA. 229+00	100′	375′	14.00′
EBL	S. BRYSON LN.	100′	375′	14.00′
WBL	S. BRYSON LN.	100′	375′	14.00′
EBL	TEXANNA TR.	100′	375′	14.00′
WBL	TEXANNA TR.	100′	375′	14.00′
EBL	BLACKCHAMP RD.	100′	375′	14.00′
WBL	BLACKCHAMP RD.	100′	375′	14.00′
EBL	LEGACY EST.	100′	375′	14.00′
WBL	LEGACY EST.	100′	375′	14.00′

NO.	BEGIN STA
WALL 10	262+00.00

MATCH LINE STA 250+00


CATTLE BARON CT.
CATTLE BARON CT.
TEXANNA TR.
TEXANNA TR. CURVE-1
BEGIN CURB WALL
STA 251+50,
62.00 LT
END CURB WALL
STA 255+40,
62.00 LT
R=30′
END CONSTRUCTION
℄ TEXANNA TR.
STA. 11+35.00
℄ TEXANNA TR.
R=30′
BEGIN CURB WALL
STA 256+40,
62.00 LT
END CURB WALL
STA 260+15,
62.00 LT
70′ ROW
PROP. ROW
28′ RDWY
40′ RDWY
N 89° 10′ 11.53″ E
255+00
10+00
260+00
140′ ROW
70′ ROW
FM 1387
PROP. CONC RIPRAP (TYP)
PROP. PARALLEL HEADWALL
PROP. GUARDRAIL (TYP.)
STA. 264+36.45 CL FM 1387 =
STA. 12+45.93 CL BLACK CHAMP RD.
PROP RW 10
PROP. STRUCTURE N2
2 - 6′X4′ RCBC
STA. 264+08.93
PROP. CONC RIPRAP (TYP)
BLACK CHAMP RD.
R=30′
R=30′
℄ BLACK CHAMP RD.
BEGIN CONSTRUCTION
℄ BLACK CHAMP RD.
STA. 10+60.00
265+00
187′ ROW
107′ ROW
80′ ROW
90′ ROW
80′ ROW
FM 1387 CURVE-17
FM 1387 CURVE-18
FM 1387
PROP. ROW
STA. 255+84.60 CL FM 1387 =
STA. 10+00.00 CL TEXANNA TR.
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
100′
STORAGE
375′
DECELERATION
100′
TAPER
LEFT-TURN BAY DETAIL (TYPICAL)

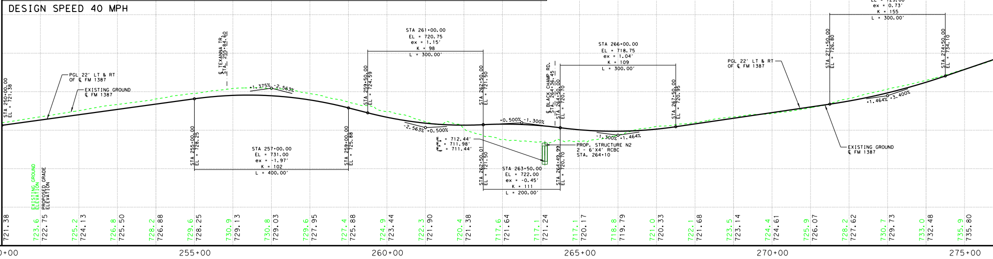
NOTES:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

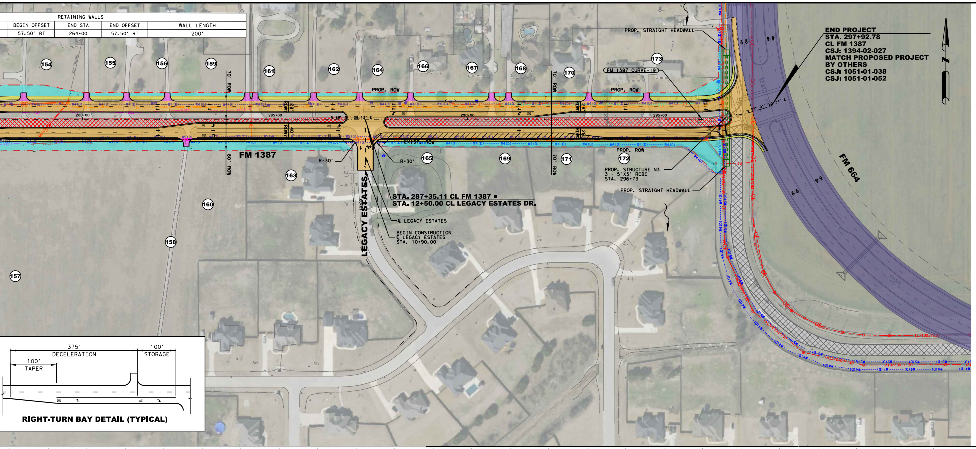
NOTES:

1. EXISTING ROW FOR FM 1387 IS APPARENT ROW PROVIDED BY TXDOT, NOT PER DEED RESEARCH.
2. EXISTING PARCEL LINES ARE APPROXIMATE. GIS PARCEL LINE INFORMATION WAS FOUND TO BE INACCURATE ALONG THE CORRIDOR. PARCELS WERE EDITED TO REFLECT EXISTING FEATURES SHOWN ON AERIAL IMAGERY AND AERIAL SURVEY.
3. AERIAL FLIGHT DATE - JUNE 2017. EXISTING TOPOGRAPHICAL INFORMATION AS PROVIDED BY TXDOT, FEB 2018.
4. TRAFFIC PROJECTIONS PENDING TRANSPORTATION PLANNING & PROGRAMMING (TPP) APPROVAL.
5. EXISTING CREEK CENTERLINE SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), WASHINGTON, D.C.,PUBLISHED: 2017-09-27, NATIONAL FLOOD HAZARD LAYER (NFHL). THE NFHL DATA 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.
6. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF MIDLOTHIAN.
7. DESIGN IS SUBJECT TO CHANGE WITHOUT NOTICE.

DESIGN SPEED 40 MPH

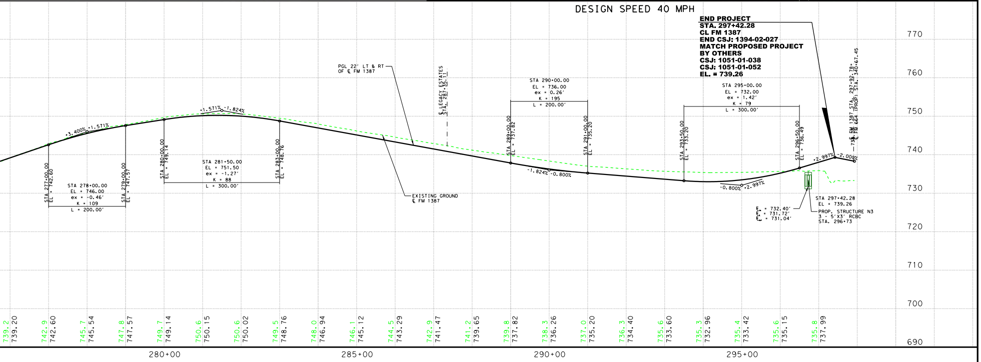
MATCH LINE STA 250+00


PGL 22′ LT & RT
OF ℄ FM 1387
EXISTING GROUND
℄ FM 1387
STA 250+00.00
EL = 721.38
℄ TEXANNA TR.
STA. 255+84.60
+1.375%
-2.563%
STA 255+00.00
EL = 728.25
STA 257+00.00
EL = 731.00
ex = -1.97′
K = 102
L = 400.00′
STA 259+00.00
EL = 725.88
STA 259+50.00
EL = 724.59
STA 261+00.00
EL = 720.75
ex = 1.15′
K = 98
L = 300.00′
-2.563%
+0.500%
E = 712.44′
E = 711.98′
E = 711.44′
STA 262+50.00
EL = 721.50
STA 262+50.01
EL = 721.50
+0.500%
-1.300%
STA 263+50.00
EL = 722.00
ex = -0.45′
K = 111
L = 200.00′
℄ BLACK CHAMP RD.
STA. 264+36.45
STA 264+50.00
EL = 720.70
STA 264+49.99
EL = 720.70
PROP. STRUCTURE N2
2 - 6′X4′ RCBC
STA. 264+10
STA 266+00.00
EL = 718.75
ex = 1.04′
K = 109
L = 300.00′
-1.300%
+1.464%
STA 267+50.00
EL = 720.95
PGL 22′ LT & RT
OF ℄ FM 1387
STA 271+50.00
EL = 726.80
STA 273+00.00
EL = 729.00
ex = 0.73′
K = 155
L = 300.00′
+1.464%
+3.400%
STA 274+50.00
EL = 734.10
EXISTING GROUND
℄ FM 1387
EXISTING GROUND ELEVATION
PROPOSED GRADE ELEVATION
721.38
723.6
722.75
725.2
724.13
726.8
725.50
728.2
726.88
729.6
728.25
730.9
729.13
730.8
729.03
729.6
727.95
727.4
725.88
724.9
723.44
722.3
721.90
720.4
721.38
717.6
721.64
717.1
721.24
717.1
720.17
718.8
719.79
721.0
720.33
722.1
721.68
723.5
723.14
724.4
724.61
725.9
726.07
728.2
727.62
730.7
729.73
733.0
732.48
735.9
735.80
250+00
255+00
260+00
265+00
270+00
275+00


154
155
156
159
161
162
164
166
167
168
170
173
157
158
160
163
165
169
171
172
70' ROW
80' ROW
PROP. ROW
EXIST. ROW
FM 1387
R=30'
LEGACY ESTATES
STA. 287+35.11 CL FM 1387 =
STA. 12+50.00 CL LEGACY ESTATES DR.
℄ LEGACY ESTATES
BEGIN CONSTRUCTION
℄ LEGACY ESTATES
STA. 10+90.00
280+00
285+00
290+00
295+00
PROP. STRAIGHT HEADWALL
FM 1387 CURVE-19
PROP. STRUCTURE N3
3 - 5'X3' RCBC
STA. 296+73
FM 664
375'
DECELERATION
100'
STORAGE
100'
TAPER
RIGHT-TURN BAY DETAIL (TYPICAL)

RETAINING WALLS			
BEGIN OFFSET	END STA	END OFFSET	WALL LENGTH
57.50' RT	264+00	57.50' RT	200'

END PROJECT
STA. 297+92.78
CL FM 1387
CSJ: 1394-02-027
MATCH PROPOSED PROJECT BY OTHERS
CSJ: 1051-01-038
CSJ: 1051-01-052



END PROJECT
STA. 297+42.28
CL FM 1387
END CSJ: 1394-02-027
MATCH PROPOSED PROJECT BY OTHERS
CSJ: 1051-01-038
CSJ: 1051-01-052
EL. = 739.26

Texas Department of Transportation

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

FM 1387
DESIGN SCHEMATIC

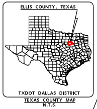
ELLIS COUNTY, TEXAS
FROM NORTH MIDLOTHIAN PARKWAY TO FM 664
CSJ: 1394-02-027
LENGTH: 5.2 MILES

DATED: JULY 2022

ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 1387	40 MPH	PRINCIPAL ARTERIAL
INTERSECTING STREETS	30 MPH	LOCAL

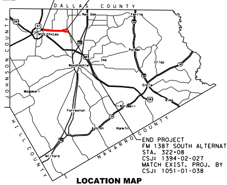
INDEX OF SHEETS

ROLL 1 OF 10: PLAN & PROFILE VIEW STA. 19+00 TO STA. 95+00
ROLL 2 OF 10: PLAN & PROFILE VIEW STA. 95+00 TO STA. 164+00
ROLL 3 OF 10: PLAN & PROFILE VIEW STA. 164+00 TO STA. 228+00
ROLL 4 OF 10: PLAN & PROFILE VIEW STA. 228+00 TO STA. 297+92 (NORTH ALTERNATIVE)
ROLL 5 OF 10: PLAN & PROFILE VIEW STA. 229+00 TO STA. 286+00 (SOUTH ALTERNATIVE)
ROLL 6 OF 10: PLAN & PROFILE VIEW STA. 286+00 TO STA. 322+08 (SOUTH ALTERNATIVE)
■ROLL 7 OF 10: SUPPLEMENTAL SIDE STREET PROFILES
■ROLL 8 OF 10: SUPPLEMENTAL SIDE STREET PROFILES
■ROLL 9 OF 10: SUPPLEMENTAL SIDE STREET PROFILES (NORTH ALTERNATIVE)
■ROLL 10 OF 10: SUPPLEMENTAL SIDE STREET PROFILES (SOUTH ALTERNATIVE)
■NOT INCLUDED


ELLIS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

ROLL 4 OF 10


DALLAS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
MIDLOTHIAN
Red Oak
Ferris
Palmer
Waxahachie
Ike
Crisp
Ennis
Maypearl
Forreston
Bardwell
Alma
Avalon
Rankin
Milford

BEGIN PROJECT
CSJ: 1394-02-027
FM 1387
STA. 19+00

END PROJECT
FM 1387 NORTH ALTERNATIVE
STA. 297+92
CSJ: 1394-02-027
MATCH EXIST. PROJ. BY OTHERS
CSJ: 1051-01-038

END PROJECT
FM 1387 SOUTH ALTERNATIVE
STA. 322+08
CSJ: 1394-02-027
MATCH EXIST. PROJ. BY OTHERS
CSJ: 1051-01-038

LOCATION MAP
N.T.S.

LEGEND

— · · —	EXISTING RIGHT OF WAY LINE	🟧	PROPOSED CONCRETE PAVEMENT
— · · —	PROPOSED RIGHT OF WAY LINE	🟨	PROPOSED SIDEWALK
— · —	CENTERLINE	🟪	PROPOSED DRIVEWAY
——	PARCEL LINE	🟪	ADJACENT PROJECT - BY OTHERS
— — —	CITY/COUNTY BOUNDARY LINE	🟦	PROPOSED ROW ACQUISITION
- - -	EXISTING DRAINAGE	←	PROPOSED LANES
— · —	PROPOSED DITCH BOTTOM	(#)	PARCEL IDENTIFYING NUMBER
▥	PROPOSED DRAINAGE STRUCTURE	▨	EXISTING PAVEMENT REMOVAL
——	PROPOSED RETAINING WALL	▨	DISPLACEMENT
∿	DIRECTION OF FLOW	▬	CURB WALL
▨	EXISTING 100-YEAR FLOODPLAIN	▬	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
RANDY L GROS, PE	134559	07/29/2022

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3010 GAYLORD PARKWAY
SUITE 190
FRISCO, TX 75034

FIRM REGISTRATION NO. 5713