TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

FM 1171

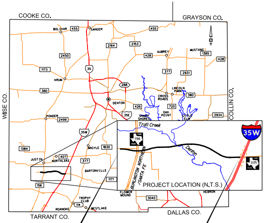
FROM FM 156
TO IH 35W

PROJECT LENGTH: 3.386 MILES

CSJ: 1311-01-055

DENTON COUNTY

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
FM 1171 (URBAN)	40 MPH	URBAN PRINCIPAL ARTERIAL
FM 1171 (RURAL)	70 MPH	RURAL PRINCIPAL ARTERIAL
FM 156	45 MPH	URBAN MINOR ARTERIAL
JOHN WILEY RD	30 MPH	URBAN PRINCIPAL ARTERIAL
TALLY BLVD	30 MPH	URBAN COLLECTOR STREET
HARMONSON RD	30 MPH	URBAN COLLECTOR STREET
REATTA RD	30 MPH	LOCAL
JUSTIN CEMETERY RD	30 MPH	LOCAL


COOKE CO.
GRAYSON CO.
WISE CO.
COLLIN CO.
TARRANT CO.
DALLAS CO.
BOLIVAR
SANGER
KRUM
AUBREY
MUSTANG
DENTON
LINCOLN PARK
CROSS ROADS
OAK POINT
PONDER
JUSTIN
NORTHLAKE
ARGYLE
BARTONVILLE
FLOWER MOUND
HEBRON
TROPHY CLUB
ROANOKE
WESTLAKE
Trail Creek
Denton
BURLINGTON NORTHERN/SANTA FE
35W
PROJECT LOCATION (N.T.S.)

FM 1171 STA 14+20.00
BEGIN PROJECT
BEGIN CSJ: 1311-01-055

FM 1171 STA 193+00.00
END PROJECT
END CSJ: 1311-01-055

Texas Department of Transportation

FIRM REGISTRATION NO. F-230
tnp
teague nall & perkins

DATE APPROVED

This document is for interim review and is not intended for construction, bidding or permit purposes.

Christopher M. Hartke,
P.E. Tx. Reg. 112377
7/1/2021

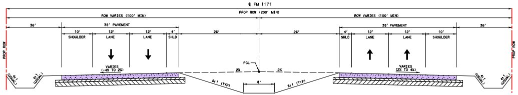
PRELIMINARY
SUBJECT TO CHANGE

© 2021 by Texas Department of Transportation;
all rights reserved

50 0 50 100 200
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET

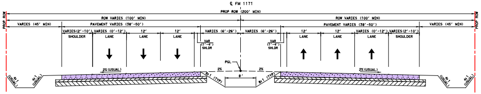
ROLL 3 of 3

JULY 2021

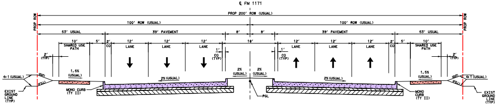

℄ FM 1171
PROP ROW (200' MIN)
ROW VARIES (100' MIN)
ROW VARIES (100' MIN)
36'
38' PAVEMENT
10' SHOULDER
12' LANE
12' LANE
4' SHLD
26'
26'
38' PAVEMENT
36'
4' SHLD
12' LANE
12' LANE
10' SHOULDER
PROP ROW
VARIES (-4% TO 2%)
PGL
2%
2%
VARIES (2% TO 4%)
4:1 (USUAL)
8:1 (TYP)
8'

SEE PLAN VIEW FOR MBGF LOCATIONS

PROPOSED FM 1171 TYPICAL SECTION
STA 129+00.00 TO STA 143+40.00

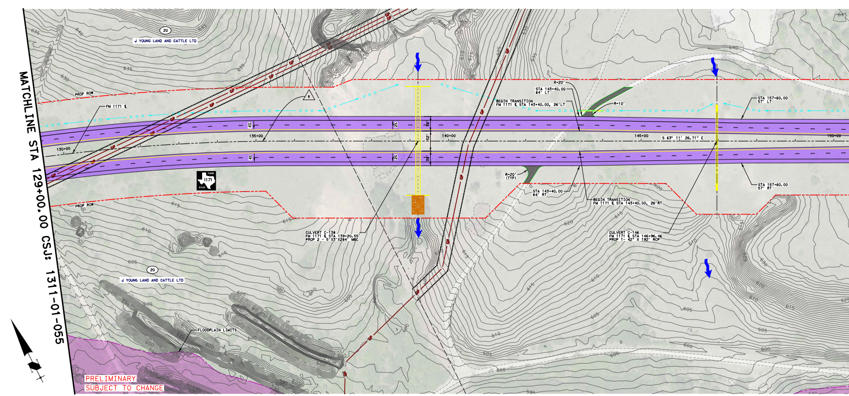

℄ FM 1171
PROP ROW (200' MIN)
ROW VARIES (100' MIN)
ROW VARIES (100' MIN)
VARIES (45' MIN)
PAVEMENT VARIES (38'-50')
PAVEMENT VARIES (38'-50')
VARIES (45' MIN)
VARIES (2'-10') SHOULDER
VARIES (0'-12') LANE
12' LANE
12' LANE
VAR (1'-4') SHLDR
VARIES (6'-26')
VARIES (6'-26')
VARIES (0'-12') LANE
VARIES (2'-10') SHOULDER
PROP ROW
PGL
2%
2% (USUAL)
4:1 (USUAL)
8:1 (TYP)
8'

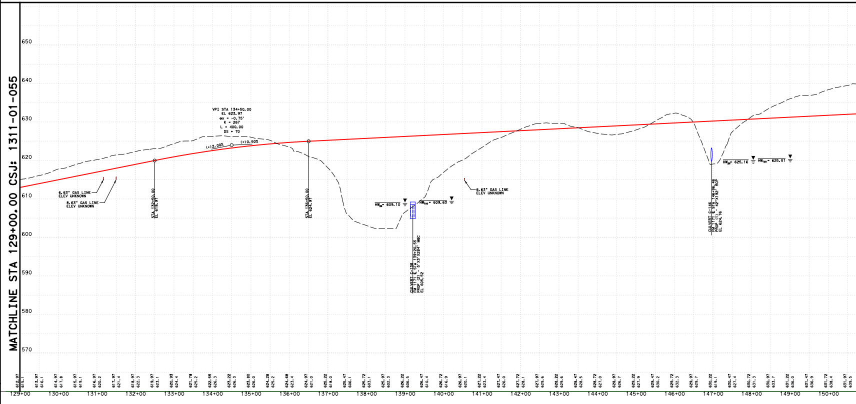
PROPOSED FM 1171 TYPICAL SECTION
STA 143+40.00 TO STA 166+00.00


℄ FM 1171
PROP 200' ROW (USUAL)
100' ROW (USUAL)
100' ROW (USUAL)
63' USUAL
39' PAVEMENT
8'
8'
18'
10' SHARED USE PATH
5'
2' CO
12' LANE
1' CO (TYP)
2' (TYP)
1.5% (USUAL)
2% (USUAL)
4:1 (USUAL)
(CUT)
(FILL)
EXIST GROUND LINE (TYP)
MONO CURB (TY II)
PGL
PROP ROW

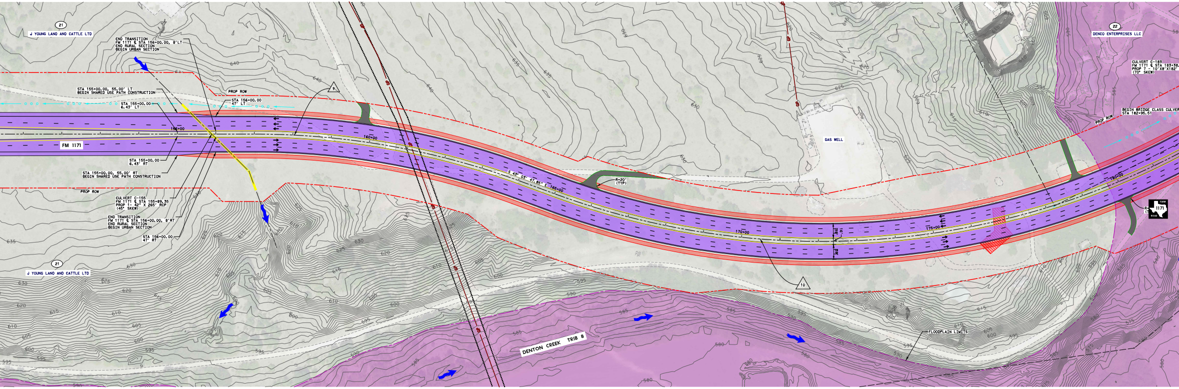
SEE PLAN VIEW FOR SIDEWALK TRANSITION

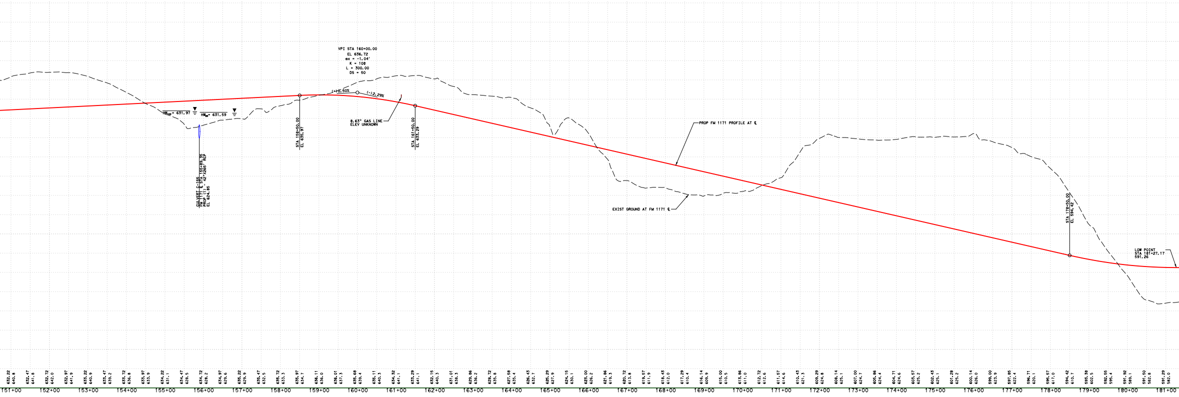
PROPOSED FM 1171 TYPICAL SECTION
STA 156+00.00 TO STA 193+00.00

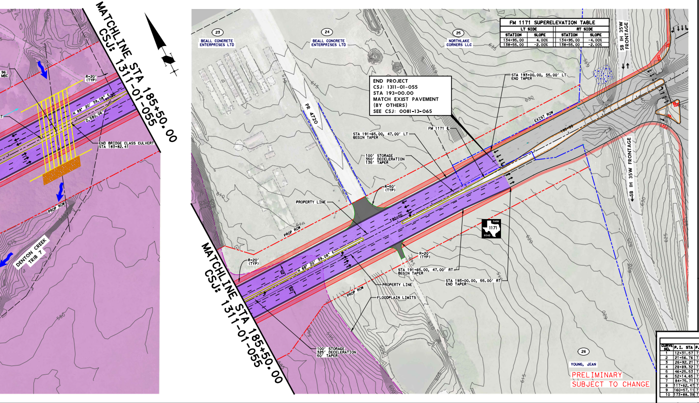

MATCHLINE STA 129+00.00 CSJ: 1311-01-055
20
J YOUNG LAND AND CATTLE LTD
PROP ROW
FM 1171 ℄
130+00
135+00
4%
8
FARM
1171
ROAD
140+00
2%
38'
52'
38'
145+00
S 63° 11' 26.71" E
150+00
R=20'
STA 143+40.00
64' LT
BEGIN TRANSITION
FM 1171 ℄ STA 143+40.00, 26'LT
R=10'
R=20'
(TYP)
STA 143+40.00
64' RT
BEGIN TRANSITION
FM 1171 ℄ STA 143+40.00, 26'RT
STA 157+60.00
57' LT
STA 157+60.00
57' RT
CULVERT C-138
FM 1171 ℄ STA 139+20.55
PROP 2 - 5'X3'X284' MBC
CULVERT C-146
FM 1171 ℄ STA 146+96.46
PROP 1- 42" X 192' RCP
GP
PROP ROW
20
J YOUNG LAND AND CATTLE LTD
FLOODPLAIN LIMITS
PRELIMINARY
SUBJECT TO CHANGE
635
640
645
630
615
610
605
600
595
620
625



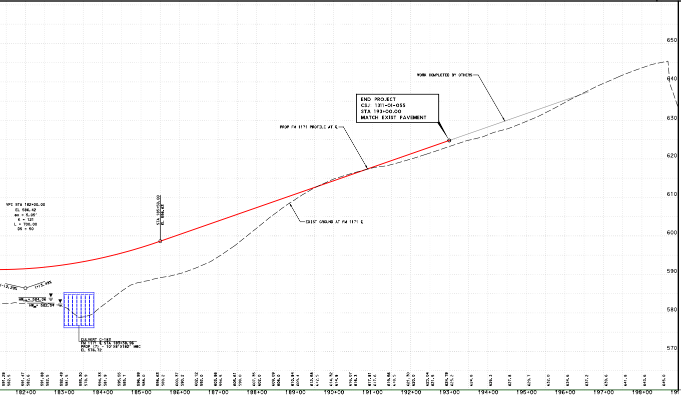
TYPICAL SECTIONS


21
J YOUNG LAND AND CATTLE LTD
END TRANSITION
FM 1171 ℄ STA 156+00.00, 8'LT
END RURAL SECTION
BEGIN URBAN SECTION
STA 155+00.00, 55.00' LT
BEGIN SHARED USE PATH CONSTRUCTION
PROP ROW
STA 156+00.00
47' LT
STA 155+00.00
6.43' LT
156+00
FM 1171
STA 155+00.00
6.43' RT
STA 155+00.00, 55.00' RT
BEGIN SHARED USE PATH CONSTRUCTION
PROP ROW
CULVERT C-155
FM 1171 ℄ STA 155+89.35
PROP 1- 42" X 265' RCP
(45° SKEW)
END TRANSITION
FM 1171 ℄ STA 156+00.00, 8'RT
END RURAL SECTION
BEGIN URBAN SECTION
STA 156+00.00
47' RT
21
J YOUNG LAND AND CATTLE LTD
9
160+00
S 43° 03' 47.85" E 165+00
R=20'
(TYP)
GAS WELL
170+00
59'
16'
59'
10
175+00
180+00
DENTON CREEK TRIB 8
FLOODPLAIN LIMITS
22
DENCO ENTERPRISES LLC
CULVERT C-183
FM 1171 ℄ STA 183+38.
PROP 7 - 10'X8'X182'
(70° SKEW)
BEGIN BRIDGE CLASS CULVER
STA 182+96.51
PROP ROW
FARM
1171
ROAD
640
635
630
625
620
615
610
605
600
595
590
585
580




MATCHLINE STA 185+50.00
CSJ: 1311-01-055
END BRIDGE CLASS CULVERT STA 183+82.41
N 88° 20' 39.08" E
R=20' (TYP)
PROP ROW
DENTON CREEK TRIB 7
BEALL CONCRETE ENTERPRISES LTD
NORTHLAKE CORNERS LLC
YOUNG, JEAN
FR 4720
END PROJECT
CSJ: 1311-01-055
STA 193+00.00
MATCH EXIST PAVEMENT
(BY OTHERS)
SEE CSJ: 0081-13-065
STA 191+65.00, 47.00' LT BEGIN TAPER
100' STORAGE 360' DECELERATION 135' TAPER
PROPERTY LINE
R=50' (TYP)
STA 193+00.00, 55.00' LT END TAPER
STA 193+00.00, 55.00' RT END TAPER
EXIST ROW
FM 1171 ℄
SB IH 35W FRONTAGE
FLOODPLAIN LIMITS
100' STORAGE 325' DECELERATION 50' TAPER
PRELIMINARY
SUBJECT TO CHANGE

FM 1171 SUPERELEVATION TABLE			
LT SIDE		RT SIDE	
STATION	SLOPE	STATION	SLOPE
134+95.00	4.00%	134+95.00	-4.00%
138+55.00	-2.00%	138+55.00	-2.00%



LEGEND			
— — —	EXISTING RIGHT OF WAY	⇨	EXISTING TRAFFIC DIRECTION
— — —	PROPERTY LINES, ETJ/MUNICIPAL	→	PROPOSED TRAFFIC DIRECTION
— — —	PROPOSED RIGHT OF WAY	(XX)	PARCEL IDENTIFICATION NUMBER
— — —	DRAINAGE EASEMENT	▨	ROADWAY REMOVAL
▬ ▬ ▬	RETAINING WALL	🟪	PROPOSED ROADWAY
— GP —	GAS	🟦	PROPOSED BRIDGE
•••••••	EXISTING UTILITY EASEMENT	🟩	PROPOSED LOCAL STREETS
— — —	FLOODPLAIN BOUNDARY	⬛	PROPOSED DRIVEWAYS
— — —	FLOODWAY BOUNDARY	🟥	PROPOSED SIDEWALK
→ ○ ○	DITCH FLOW LINE	🟧	FM 156 ROADWAY
▬▬▬	MBGF, END SECTION AND RIPRAP	🟩	BRIDGE EMBANKMENT
→	DIRECTION OF WATER FLOW	🟪	FLOODWAY/FLOODPLAIN
		☐	PROJECT BY OTHERS
		▨	POTENTIAL DISPLACEMENT

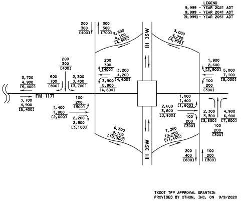
UTILITY DISCLAIMER:
THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION.

PARCEL #	OWNER'S NAME	BUSINESS NAME
1	Allen, Alicia	
2	Frey, Melissa	
3	HH Holmes Holdings, LLC	
4	Zambrano, Justin	
5	Wade, Donna & George	
6	Justin Assembly of God Church	
7A-7G	B&M Prop J/V	
8	Justin, City of	
9	NHJustin, LLC	
10	NHJustin, LLC	
11	Allsup's Convenience Stores Inc	Allsup's
12	HA Smith Properties Co LP	
13	Henderson, Ann TR Living Trust	
14	Henderson, Ann TR Living Trust	
15	Kethcersid, Cameron B	
16	HA Smith Properties Co LP	
17	Kethcersid, Cameron B	
18	HA Smith Properties Co LP	
19	Kethcersid, Cameron B	
20	J Young Land And Cattle LTD	
21	J Young Land And Cattle LTD	
22	Charis & Associates, LLC	Quail Creek Shooting Range
23	Beall,Concrete Enterprises LTD	Beall Concrete
24	Beall,Concrete Enterprises LTD	Beall Concrete
25	Northlake Corners LLC	
26	Young, Jean	

JOHN WILEY RD/FM 1171 HORIZONTAL ALIGNMENT DATA TABLE

CURVE NO.	P.I. STA	P.I. STAT - N	P.I. STA - E	PC STA	PT STA	T	L	R	Δ	D	SE
1	12+31.57	7,076,373.93	2,335,764.38	12+02.53	12+60.59	29.04	58.06	1,000.00	03°19'34.94" (RT)	05°43'46.48"	NC
2	21+56.76	7,075,332.86	2,336,678.68	21+27.15	21+86.35	29.61	59.20	1,000.00	03°23'30.35" (LT)	05°43'46.48"	NC
3	26+92.21	7,075,340.78	2,337,214.09	25+77.96	28+05.48	114.25	227.52	1,000.00	13°02'09.63" (RT)	05°43'46.48"	NC
4	28+89.32	7,075,298.96	2,337,407.72	28+05.48	29+72.77	83.84	167.29	1,000.00	09°35'05.92" (LT)	05°43'46.48"	NC
5	46+25.53	7,075,220.08	2,339,142.53	43+94.14	48+48.92	231.39	454.78	1,000.00	26°03'24.86" (LT)	05°43'46.48"	NC
6	52+14.65	7,075,457.74	2,339,690.32	50+10.28	54+13.47	204.37	403.20	1,000.00	23°06'05.18" (RT)	05°43'46.48"	NC
7	84+75.71	7,076,477.82	2,342,956.86	76+56.18	92+78.78	819.52	1622.59	4,680.00	19°51'53.56" (LT)	01°13'27.37"	4.0%
8	117+62.47	7,076,619.34	2,346,056.57	97+26.28	135+67.45	2036.20	3841.17	4,680.00	47°01'34.60" (RT)	01°13'27.37"	4.0%
9	160+57.11	7,074,578.07	2,350,095.97	157+02.17	164+04.75	354.95	702.58	2,000.00	20°07'38.87" (RT)	02°51'53.24"	NC
10	173+88.39	7,073,600.10	2,351,009.96	165+04.75	181+68.87	883.64	1664.12	2,000.00	47°40'24.78" (LT)	02°51'53.24"	NC

TRAFFIC DATA


LEGEND
9,999 - YEAR 2021 ADT
9,999 - YEAR 2041 ADT
[9,999] - YEAR 2051 ADT
IH 35W
FM 1171
200 300 [400]
300 500 [700]
2,800 4,100 [4,500]
3,000 4,200 [4,800]
200 300 [400]
200 300 [400]
3,200 4,200 [4,600]
1,900 2,600 [2,900]
6,000 7,100 [8,000]
3,700 4,900 [5,400]
500 700 [800]
2,300 3,400 [3,700]
3,900 5,900 [6,800]
100 200 [300]
3,700 4,900 [5,400]
100 200 [300]
1,000 1,400 [1,600]
1,400 1,800 [2,000]
2,600 3,600 [3,800]
2,300 3,300 [3,800]
4,900 6,900 [7,800]
2,200 2,900 [3,100]
100 200 [300]
100 200 [300]
6,300 9,100 [10,300]
7,200 10,200 [11,600]
200 400 [600]
100 200 [300]

TXDOT TPP APPROVAL GRANTED:
PROVIDED BY OTHON, INC. ON 9/9/2020

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS (PERFORMED ON 4/2018) AND RECORD PLANS.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE INSIDE EDGE OF TRAVELED WAY.
4. DIMENSIONS ARE TO THE NOMINAL FACE OF CURB OR FACE OF RAIL UNLESS OTHERWISE NOTED.
5. APPROXIMATE FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAP NUMBERS 48121C0485G AND 48121C0505G.
6. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
7. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED IN COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
8. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
9. CURBS ARE BARRIER CURB UNLESS OTHERWISE NOTED.
10. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT 6-25-2020.
12. DESIGN VEHICLE FOR TURN VARIES IN ACCORDANCE WITH RDM CHAPTER 7, SECTION 7
13. BEARINGS OF LINES SHOWN HEREON REFER TO GRID NORTH OF THE TEXAS COORDINATE SYSTEM OF 1983 (NORTH CENTRAL ZONE; NAD83(2011) EPOCH 2010) AS DERIVED LOCALLY FROM TXDOT5#325 VIRTUAL REFERENCE STATION (VRS) NETWORK VIA REAL TIME KINEMATIC (RTK) METHODS. A SURFACE ADJUSTMENT FACTOR OF 1.000150630 WAS USED TO SCALE GRID DISTANCES TO SURFACE. ALL COORDINATES AND DISTANCES SHOWN ARE SURFACE.
14. THE ELEVATIONS SHOWN ARE NAVD 88 AND WERE DERIVED FROM THE ABOVE RTK OBSERVATIONS. ORTHOMETRIC HEIGHTS WERE CALCULATED BY APPLYING THE GEOID09 MODEL TO THE ELLIPSOID HEIGHTS. NGS SECOND ORDER STATION K945 (ELEV=627.435#32) WAS HELD FIXED VERTICALLY AND NGS SECOND ORDER STATION N945, TXDOT STATIONS R0610035, R061088 AND R0610168 WERE USED AS QUALITY CONTROL CHECKS ON THE VERTICAL ADJUSTMENT.

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

FM 1171

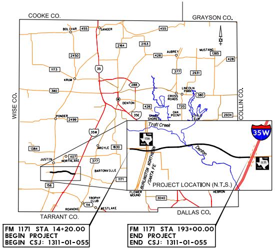
FROM FM 156
TO IH 35W

PROJECT LENGTH: 3.386 MILES

CSJ: 1311-01-055

DENTON COUNTY

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
FM 1171 (URBAN)	40 MPH	URBAN PRINCIPAL ARTERIAL
FM 1171 (RURAL)	70 MPH	RURAL PRINCIPAL ARTERIAL
FM 156	45 MPH	URBAN MINOR ARTERIAL
JOHN WILEY RD	30 MPH	URBAN PRINCIPAL ARTERIAL
TALLY BLVD	30 MPH	URBAN COLLECTOR STREET
HARMONSON RD	30 MPH	URBAN COLLECTOR STREET
REATTA RD	30 MPH	LOCAL
JUSTIN CEMETERY RD	30 MPH	LOCAL


COOKE CO.
GRAYSON CO.
WISE CO.
COLLIN CO.
TARRANT CO.
DALLAS CO.
BOLIVAR
SANGER
KRUM
AUBREY
MUSTANG
DENTON
LINCOLN PARK
CROSS ROADS
OAK POINT
PONDER
SHADY SHORES
Trail Creek
JUSTIN
NORTHLAKE
ARGYLE
BARTONVILLE
ROANOKE
TROPHY CLUB
WESTLAKE
FLOWER MOUND
HEBRON
BURLINGTON NORTHERN /SANTA FE
35W
35E
156
1171
3040
114
PROJECT LOCATION (N.T.S.)

FM 1171 STA 14+20.00
BEGIN PROJECT
BEGIN CSJ: 1311-01-055

FM 1171 STA 193+00.00
END PROJECT
END CSJ: 1311-01-055

Texas Department of Transportation

FIRM REGISTRATION NO. F-230
tnp
teague nall & perkins

DATE APPROVED

This document is for interim review and is not intended for construction, bidding or permit purposes.
Christopher M. Hartke,
P.E. Tx. Reg. 112377
7/1/2021

PRELIMINARY
SUBJECT TO CHANGE

© 2021 by Texas Department of Transportation; all rights reserved

ROLL 3 of 3

JULY 2021

50 0 50 100 200
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET