TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

FM 1171

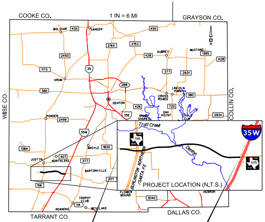
FROM WEST OF FM 156
TO IH 35W

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	RURAL MINOR ARTERIAL
JOHN WILEY RD	30 MPH	LOCAL - URBAN MINOR ARTERIAL
TALLY BLVD	30 MPH	LOCAL - URBAN COLLECTOR STREET
HARMONSON RD	30 MPH	LOCAL - URBAN COLLECTOR STREET
REATTA RD	30 MPH	LOCAL
JUSTIN CEMETERY RD	30 MPH	LOCAL


COOKE CO.
1 IN = 6 MI
GRAYSON CO.
WISE CO.
COLLIN CO.
TARRANT CO.
DALLAS CO.
BOLIVAR
SANGER
AUBREY
MUSTANG
KRUM
DENTON
CROSS ROADS
LINCOLN PARK
PONDER
OAK POINT
ARGYLE
JUSTIN
NORTHLAKE
BARTONVILLE
FLOWER MOUND
TROPHY CLUB
ROANOKE
WESTLAKE
HEBRON
455
2164
2153
428
2450
35
1173
377
2931
288
380
1385
720
426
2934
35E
2499
35W
1830
1384
407
156
1171
114
3040
Trail Creek
Denton
BURLINGTON NORTHERN /SANTA FE
PROJECT LOCATION (N.T.S.)

BEGIN PROJECT
FM 1171: WEST OF FM 156
STA 14+20.00
CSJ: 1311-01-055

END PROJECT
FM 1171: IH35W
STA 193+00.00
CSJ: 1311-01-055

Texas Department of Transportation

FIRM REGISTRATION NO. F-230
teague nall & perkins

CHRISTOPHER M. HARTKE
112377
3/1/2022
Christopher Hartke

DATE APPROVED

PRELIMINARY
SUBJECT TO CHANGE

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

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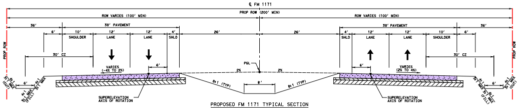
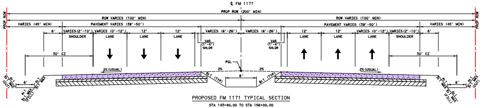
ROLL 3 of 3

FEBRUARY 2022


℄ FM 1171
PROP ROW (200' MIN)
ROW VARIES (100' MIN)
ROW VARIES (100' MIN)
36'
38' PAVEMENT
38' PAVEMENT
36'
6'
10' SHOULDER
12' LANE
12' LANE
4' SHLD
26'
26'
4' SHLD
12' LANE
12' LANE
10' SHOULDER
6'
PROP ROW
30' CZ
30' CZ
VARIES (-4% TO 2%)
VARIES (2% TO 4%)
6'
6'
PGL
2%
2%
8:1 (TYP)
8'
8:1 (TYP)
4:1 3:1 MAX (CUT)
6'
4:1 3:1 MAX
4:1 3:1 MAX (FILL)
SUPERELEVATION AXIS OF ROTATION
SUPERELEVATION AXIS OF ROTATION

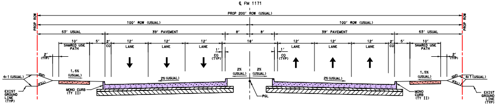
PROPOSED FM 1171 TYPICAL SECTION

STA 129+00.00 TO STA 143+40.00


℄ FM 1171
PROP ROW (200' MIN)
PROP ROW
ROW VARIES (100' MIN)
ROW VARIES (100' MIN)
VARIES (45' MIN)
PAVEMENT VARIES (38'-50')
PAVEMENT VARIES (38'-50')
VARIES (45' MIN)
6'
VARIES (2'-10') SHOULDER
VARIES (0'-12') LANE
12' LANE
12' LANE
VARIES (6'-26')
VARIES (6'-26')
12' LANE
12' LANE
VARIES (0'-12') LANE
VARIES (2'-10') SHOULDER
6'
VAR (1'-4') SHLDR
VAR (1'-4') SHLDR
30' CZ
30' CZ
PGL
2% (USUAL)
2%
2%
2% (USUAL)
8:1 (TYP)
8'
8:1 (TYP)
4:1 3:1 MAX (CUT)
6'
4:1 3:1 MAX
4:1 3:1 MAX (FILL)

PROPOSED FM 1171 TYPICAL SECTION

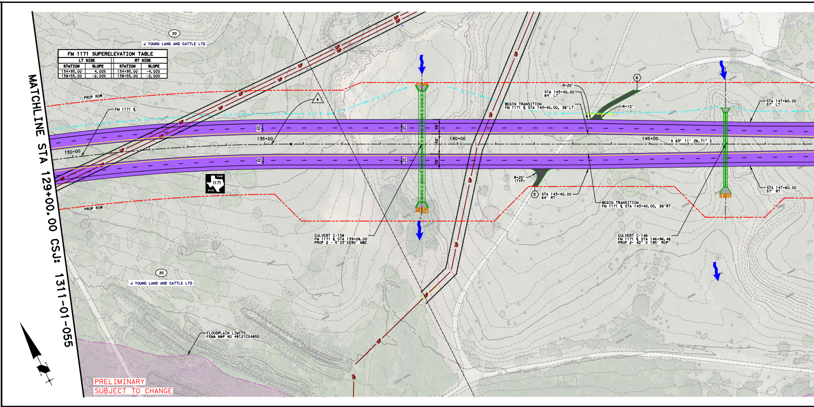
STA 143+40.00 TO STA 166+00.00


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

SEE PLAN VIEW FOR SIDEWALK TRANSITION

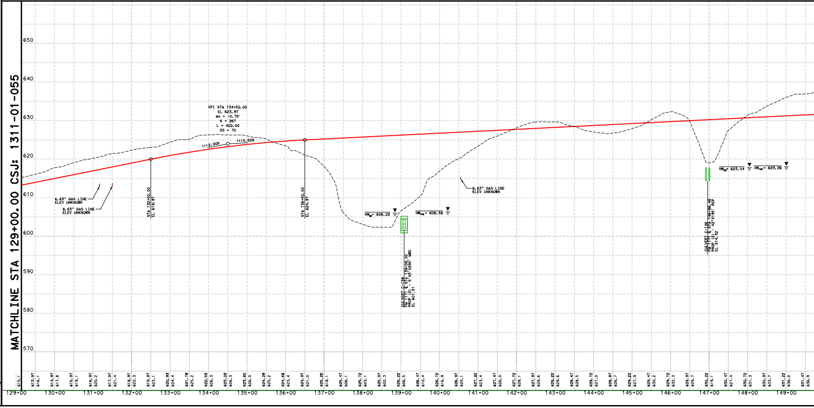
PROPOSED FM 1171 TYPICAL SECTION

STA 156+00.00 TO STA 193+00.00

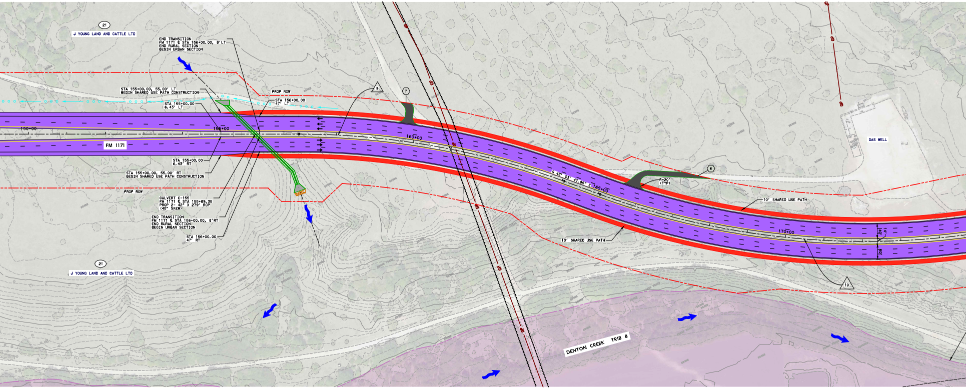

MATCHLINE STA 129+00.00 CSJ: 1311-01-055
J YOUNG LAND AND CATTLE LTD
20
PROP ROW
FM 1171 ℄
130+00
135+00
140+00
145+00
S 63° 11' 26.71" E
4%
2%
38'
52'
GP
R=20'
STA 143+40.00
64' LT
BEGIN TRANSITION
FM 1171 ℄ STA 143+40.00, 26'LT
R=10'
6
5
R=20'
(TYP)
STA 143+40.00
64' RT
BEGIN TRANSITION
FM 1171 ℄ STA 143+40.00, 26'RT
STA 147+60.00
57' LT
STA 147+60.00
57' RT
CULVERT C-138
FM 1171 ℄ STA 139+08.00
PROP 2 - 5'X3'X290' MBC
CULVERT C-146
FM 1171 ℄ STA 146+96.46
PROP 2- 42" X 195' RCP
FLOODPLAIN LIMITS
FEMA MAP NO 48121C0485G
1171
PRELIMINARY
SUBJECT TO CHANGE

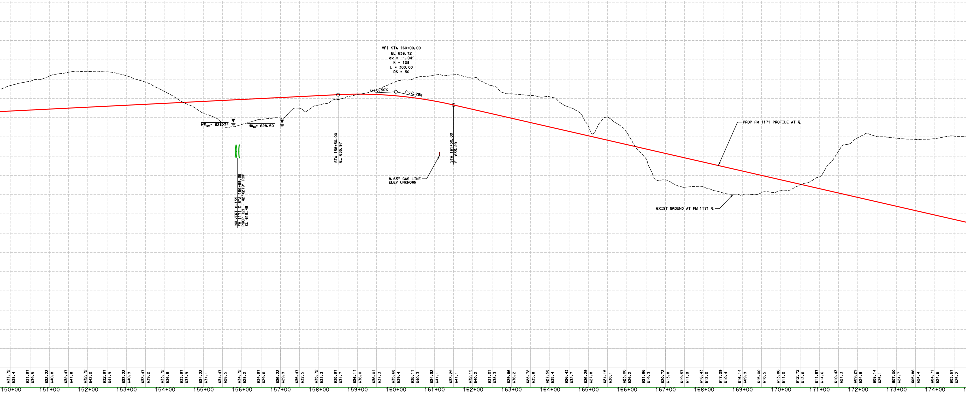
FM 1171 SUPERELEVATION TABLE

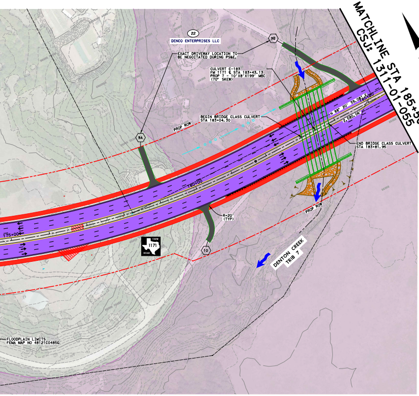
LT SIDE		RT SIDE	
STATION	SLOPE	STATION	SLOPE
134+95.00	4.00%	134+95.00	-4.00%
138+55.00	-2.00%	138+55.00	-2.00%



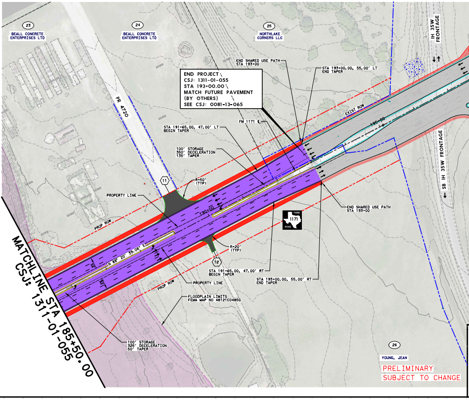
TYPICAL SECTIONS


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
150+00
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 2- 42" X 279' 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
7
160+00
S 43° 03' 47.85" E 165+00
8
R=20'
(TYP)
GAS WELL
10' SHARED USE PATH
10' SHARED USE PATH
170+00
14'
14'
10
DENTON CREEK TRIB 8





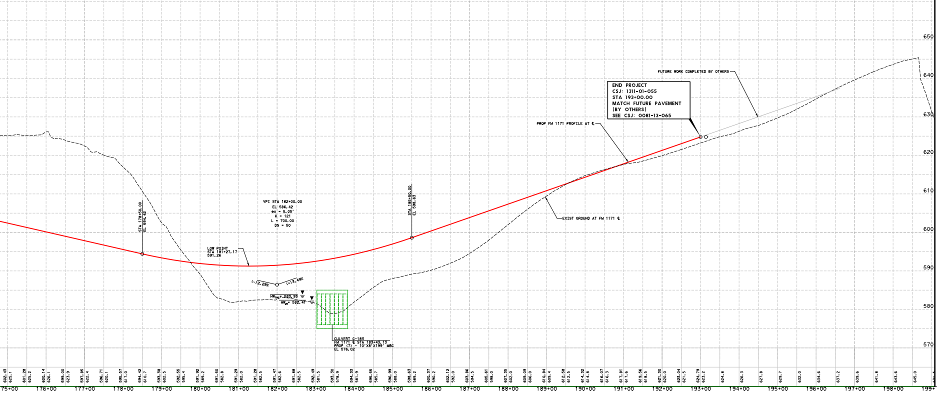
MATCHLINE STA 185+50.00
CSJ: 1311-01-055
22
DENCO ENTERPRISES LLC
9B
EXACT DRIVEWAY LOCATION TO BE NEGOITATED DURING PS&E.
CULVERT C-183
FM 1171 ℄ STA 183+43.13
PROP 7 - 10'X8'X199' MBC
(70° SKEW)
BEGIN BRIDGE CLASS CULVERT
STA 183+04.30
END BRIDGE CLASS CULVERT
STA 183+81.95
N 88° 20' 39.08" E
2,580.06'
185+00
180+00
175+00
PROP ROW
9A
10
R=20' (TYP)
1171
DENTON CREEK TRIB 7
FLOODPLAIN LIMITS
FEMA MAP NO 48121C0485G



23
BEALL CONCRETE ENTERPRISES LTD
24
BEALL CONCRETE ENTERPRISES LTD
25
NORTHLAKE CORNERS LLC
IH 35W FRONTAGE
SB IH 35W FRONTAGE
END PROJECT
CSJ: 1311-01-055
STA 193+00.00
MATCH FUTURE PAVEMENT
(BY OTHERS)
SEE CSJ: 0081-13-065
END SHARED USE PATH
STA 193+00
STA 193+00.00, 55.00' LT
END TAPER
EXIST ROW
FM 1171 ℄
STA 191+65.00, 47.00' LT
BEGIN TAPER
100' STORAGE
350' DECELERATION
135' TAPER
PR 4720
11
R=50' (TYP)
PROPERTY LINE
PROP ROW
190+00
195+00
1171
END SHARED USE PATH
STA 193+00
R=20' (TYP)
12
STA 191+65.00, 47.00' RT
BEGIN TAPER
STA 193+00.00, 55.00' RT
END TAPER
PROPERTY LINE
PROP ROW
FLOODPLAIN LIMITS
FEMA MAP NO 48121C0485G
N 88° 20' 39.08" E
24'
24'
100' STORAGE
325' DECELERATION
50' TAPER
MATCHLINE STA 185+50.00
CSJ: 1311-01-055
26
YOUNG, JEAN

PRELIMINARY
SUBJECT TO CHANGE

CURVE NO.	P. I. STA
1	12+31.57
2	21+56.76
3	26+92.21
4	28+89.32
5	43+34.73
6	51+43.43
7	84+75.71
8	117+62.47
9	160+57.11
10	173+88.39



650
640
630
620
610
600
590
580
570
FUTURE WORK COMPLETED BY OTHERS
END PROJECT
CSJ: 1311-01-055
STA 193+00.00
MATCH FUTURE PAVEMENT
(BY OTHERS)
SEE CSJ: 0081-13-065
PROP FM 1171 PROFILE AT ℄
EXIST GROUND AT FM 1171 ℄
STA 178+50.00
EL 594.42
VPI STA 182+00.00
EL 586.42
ΘX = 5.05'
K = 121
L = 700.00
DS = 50
STA 185+50.00
EL 598.63
LOW POINT
STA 181+27.17
591.26
(-)2.29%
(+)3.49%
HW100 = 583.93
HW25 = 582.41
CULVERT C-183
FM 1171 ℄ STA 183+43.13
PROP (7) - 10'X8'X199' MBC
EL 576.02
602.43 625.1
601.28 625.2
600.14 626.1
599.00 623.9
597.85 622.4
596.71 620.1
595.57 617.0
594.42 610.7
593.38 602.5
592.56 595.4
591.92 589.2
591.50 582.8
591.29 582.0
591.28 582.5
591.47 582.6
591.88 582.5
592.49 581.5
593.30 578.9
594.33 581.9
595.56 585.7
596.99 588.0
598.63 589.2
600.37 590.2
602.12 592.0
603.86 594.5
605.61 598.0
607.35 602.0
609.09 606.0
610.84 609.4
612.58 612.5
614.32 614.8
616.07 616.3
617.81 617.6
619.56 618.5
621.30 620.0
623.04 621.5
624.79 623.2
624.8
626.3
627.8
629.7
632.0
634.6
637.2
639.6
641.8
643.6
645.0
175+00
176+00
177+00
178+00
179+00
180+00
181+00
182+00
183+00
184+00
185+00
186+00
187+00
188+00
189+00
190+00
191+00
192+00
193+00
194+00
195+00
196+00
197+00
198+00
199+

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 ON-SYSTEM ROADWAY
GP	GAS	■	PROPOSED BRIDGE
	EXISTING UTILITY EASEMENT	🟩	PROPOSED LOCAL STREETS
	FLOODPLAIN BOUNDARY	⬛	PROPOSED DRIVEWAYS
	FLOODWAY BOUNDARY	🟥	PROPOSED SIDEWALK/SHARED USE PATHS
→ ○ ○	DITCH FLOW LINE	🟧	FM 156 ROADWAY
	MBGF, END SECTION AND RIPRAP	■	BRIDGE EMBANKMENT
	DIRECTION OF WATER FLOW	■	FLOODWAY/FLOODPLAIN
	DRAINAGE STRUCTURES	⬜	PROJECT BY OTHERS
		▨	POTENTIAL DISPLACEMENT

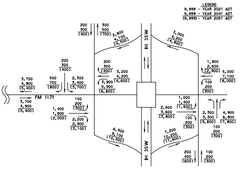
UTILITY DISCLAIMER:
THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION.

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

P.I. STAT - N	P.I. STA - E	PC STA	PT STA	T	L	R	Δ	D	SE
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
7,076,332.86	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
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
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
7,075,223.92	2,338,838.13	40+08.58	46+55.19	326.15	646.61	2,000.00	18°31'26.26" (LT)	02°51'53.24"	NC
7,075,457.32	2,339,621.29	48+70.02	54+13.47	273.41	543.45	2,000.00	15°34'06.88" (RT)	02°51'53.24"	NC
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%
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%
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
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
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]
3,700 4,900 [5,400]
500 700 [800]
2,300 3,400 [3,700]
200 300 [400]
3,200 4,200 [4,600]
3,900 5,900 [6,800]
1,900 2,600 [2,900]
5,000 7,100 [8,000]
100 200 [300]
3,700 4,900 [5,400]
100 200 [300]
1,400 1,800 [2,000]
2,200 2,900 [3,100]
1,000 1,400 [1,600]
2,600 3,600 [3,800]
100 200 [300]
2,300 3,300 [3,800]
4,900 6,900 [7,800]
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
TRAFFIC NUMBERS TO BE UPDATED PENDING
LET DATE APPROVAL.

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS (PERFORMED ON 4/2018 & 9/2021) 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 CENTER OF INSIDE LANE.
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. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
10. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT 6-25-2021.
11. DESIGN VEHICLE FOR TURN VARIES IN ACCORDANCE WITH RDM CHAPTER 7, SECTION 7
12. 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.
13. 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

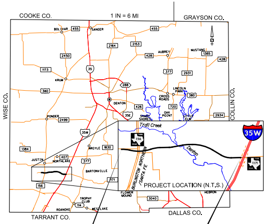
FROM WEST OF FM 156
TO IH 35W

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	RURAL MINOR ARTERIAL
JOHN WILEY RD	30 MPH	LOCAL - URBAN MINOR ARTERIAL
TALLY BLVD	30 MPH	LOCAL - URBAN COLLECTOR STREET
HARMONSON RD	30 MPH	LOCAL - URBAN COLLECTOR STREET
REATTA RD	30 MPH	LOCAL
JUSTIN CEMETERY RD	30 MPH	LOCAL


COOKE CO.
1 IN = 6 MI
GRAYSON CO.
N
BOLIVAR
455
SANGER
455
2164
2153
2450
428
AUBREY
MUSTANG
1385
428
1173
35
377
2931
KRUM
288
380
LINCOLN PARK
380
CROSS ROADS
DENTON
426
720
WISE CO.
COLLIN CO.
PONDER
2499
35E
SHADY SHORES
OAK POINT
LITTLE ELM
2934
Trail Creek
35W
35W
156
1171
Denton
ARGYLE
1830
1384
JUSTIN
407
NORTHLAKE
377
BARTONVILLE
BURLINGTON NORTHERN /SANTA FE
1171
PROJECT LOCATION (N.T.S.)
156
FLOWER MOUND
HEBRON
3040
TROPHY CLUB
114
ROANOKE
WESTLAKE
TARRANT CO.
DALLAS CO.

BEGIN PROJECT
FM 1171: WEST OF FM 156
STA 14+20.00
CSJ: 1311-01-055

END PROJECT
FM 1171: IH35W
STA 193+00.00
CSJ: 1311-01-055

Texas Department of Transportation

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

DATE APPROVED

CHRISTOPHER M. HARTKE
112377
3/1/2022
Christopher Hartke

PRELIMINARY
SUBJECT TO CHANGE

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

ROLL 3 of 3

FEBRUARY 2022