TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

FM 1171

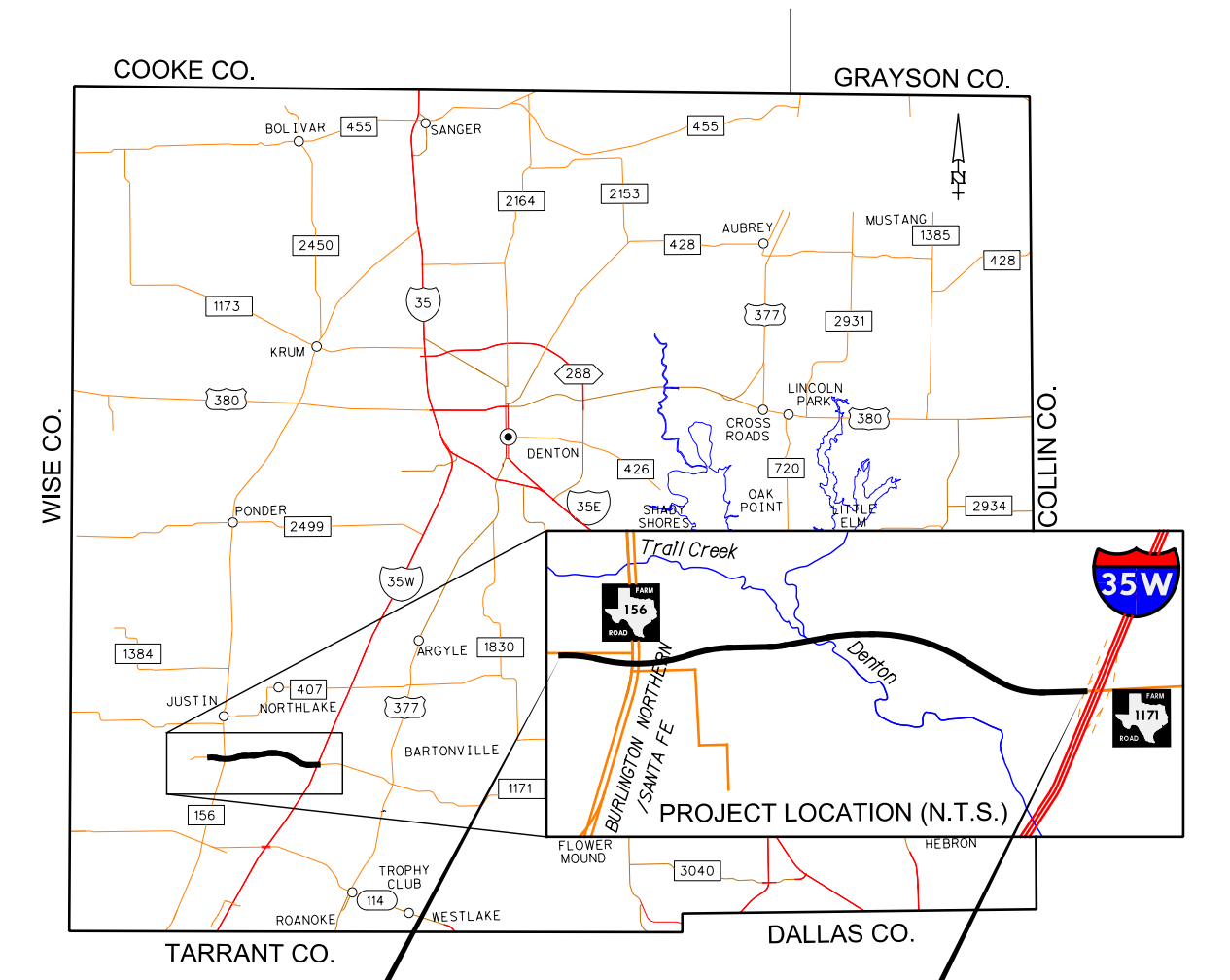
FROM FM 156
TO IH 35W

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.
TARRANT CO.
DALLAS CO.
BOLIVAR
SANGER
AUBREY
MUSTANG
KRUM
PONDER
JUSTIN
NORTHLAKE
BARTONVILLE
TROPHY CLUB
ROANOKE
WESTLAKE
FLOWER MOUND
HEBRON
BURLINGTON NORTHERN /SANTA FE
PROJECT LOCATION (N.T.S.)
455
2164
2153
428
377
2931
2450
1173
380
2499
1384
407
156
1171
114
3040
35
N

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
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
6/25/2021

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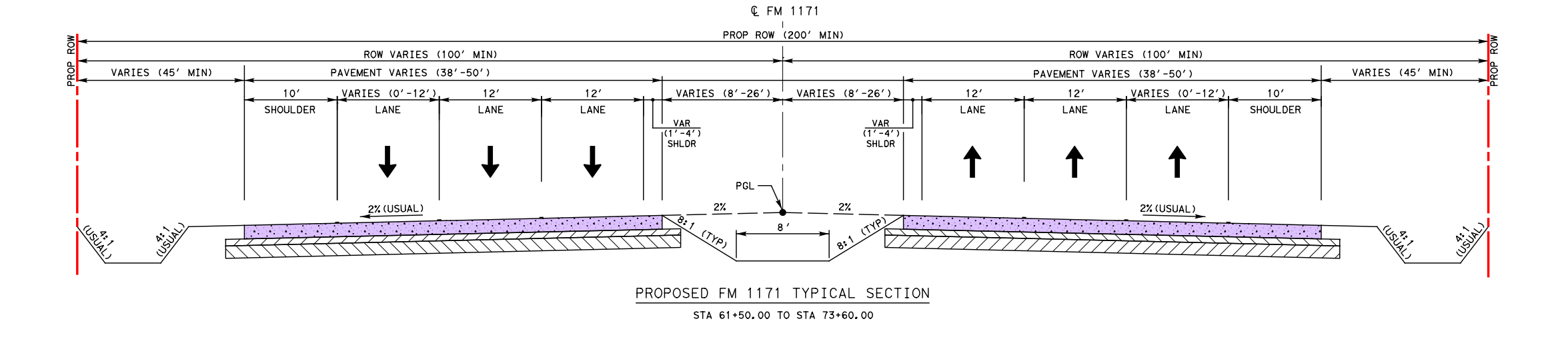
ROLL 2 of 3

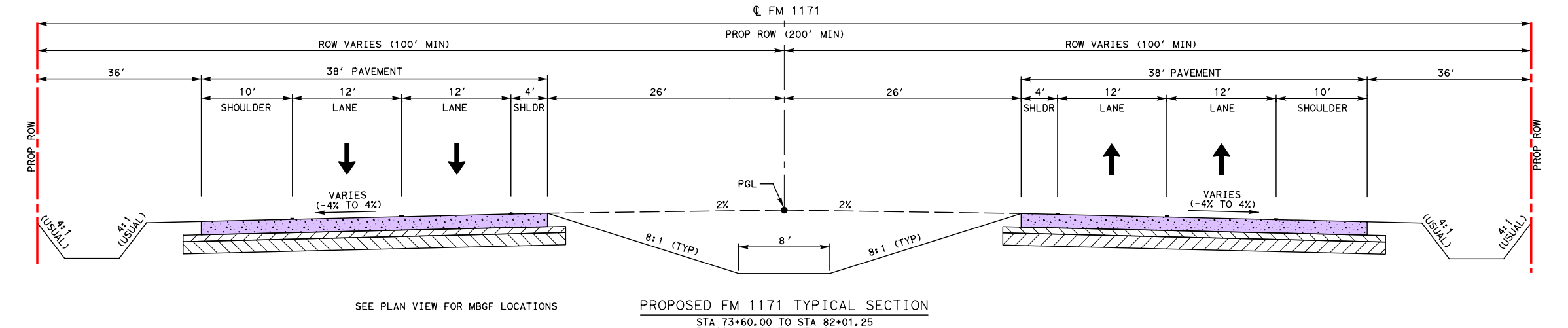
JULY 2021

PRELIMINARY
SUBJECT TO CHANGE

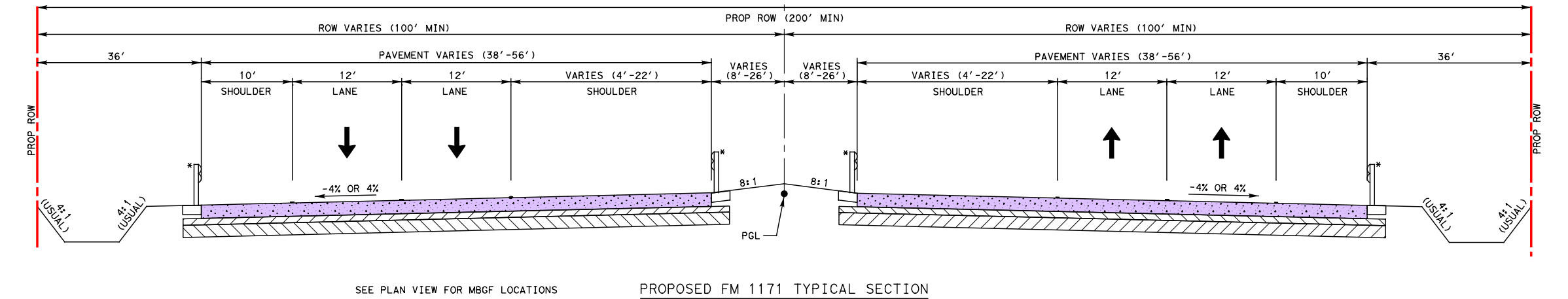
50 0 50 100 200
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET


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

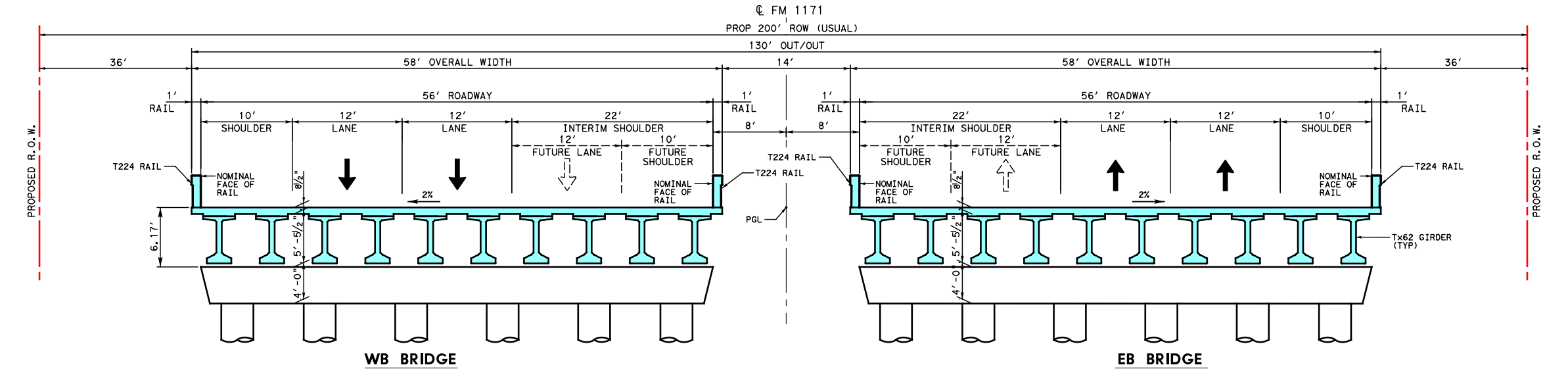
PROPOSED FM 1171 TYPICAL SECTION
STA 61+50.00 TO STA 73+60.00


℄ FM 1171
PROP ROW (200' MIN)
ROW VARIES (100' MIN)
36'
38' PAVEMENT
10'
SHOULDER
12'
LANE
4'
SHLDR
26'
PROP ROW
PGL
VARIES (-4% TO 4%)
2%
8:1 (TYP)
8'
4:1 (USUAL)
SEE PLAN VIEW FOR MBGF LOCATIONS

PROPOSED FM 1171 TYPICAL SECTION
STA 73+60.00 TO STA 82+01.25
STA 119+28.75 TO STA 129+00.00


℄ FM 1171
PROP ROW (200' MIN)
ROW VARIES (100' MIN)
36'
PAVEMENT VARIES (38'-56')
10'
SHOULDER
12'
LANE
VARIES (4'-22')
VARIES (8'-26')
PROP ROW
-4% OR 4%
8:1
PGL
4:1 (USUAL)
*
SEE PLAN VIEW FOR MBGF LOCATIONS

PROPOSED FM 1171 TYPICAL SECTION
STA 82+01.25 TO STA 85+95.00
*STA 83+06.60 TO STA 85+75.00
STA 115+35.00 TO STA 119+28.75


℄ FM 1171
PROP 200' ROW (USUAL)
130' OUT/OUT
36'
58' OVERALL WIDTH
14'
56' ROADWAY
1' RAIL
10'
SHOULDER
12'
LANE
22'
INTERIM SHOULDER
12'
FUTURE LANE
10'
FUTURE SHOULDER
8'
T224 RAIL
NOMINAL FACE OF RAIL
2%
PGL
6.17'
8½"
5'-5½"
4'-0"
Tx62 GIRDER (TYP)
PROPOSED R.O.W.
WB BRIDGE
EB BRIDGE

PROPOSED FM 1171 BRIDGE SECTION
OVER DENTON CREEK
STA 85+95.00 TO STA 115+35.00

TYPICAL SECTIONS

MATCHLINE STA 61+50.00 CSJ: 1311-01-055
MATCHLINE STA 97+00.00 CSJ: 1311-01-055
MATCHLINE STA 129+00.00 CSJ: 1311-01-055
PRELIMINARY SUBJECT TO CHANGE
FM 1171 ℄
PROP ROW
GP
FARM 1171 ROAD
635
640
630

MATCHLINE STA 61+50.00 CSJ: 1311-01-055
MATCHLINE STA 129+00.00 CSJ: 1311-01-055
640
630
620
610
600
590
580
570
560
613.97
616.1

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.

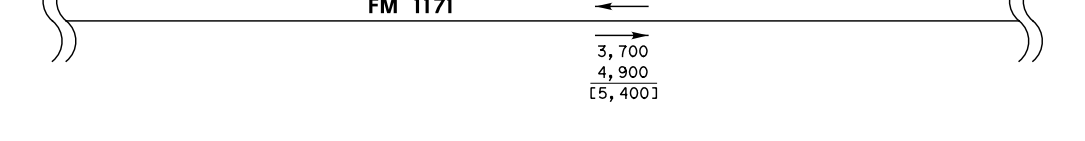
PARCEL #	OWNER'S NAME	BUSINESS NAME
1	Allen, Alicia	
2	Frey, Melissa	
3	HH Holmes Holdings, LLC	
4	Zambrano, Justin	
5	Wade, Donna & George	
6	Justin Assembly of God Church	
7A-7G	B&M Prop J/V	
8	Justin, City of	
9	NHJustin, LLC	
10	NHJustin, LLC	
11	Allsup's Convenience Stores Inc	Allsup's
12	HA Smith 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	7,075,373.93	2,335,754.38	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


FM 1171
3,700
4,900
[5,400]
3,700
4,900
[5,400]

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#32S 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
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FM 1171 STA 14+20.00
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FM 1171 STA 193+00.00
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Texas Department of Transportation
FIRM REGISTRATION NO. F-230
teague nall & perkins
DATE APPROVED
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Christopher M. Hartke,
P.E. Tx. Reg. 112377
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ROLL 2 of 3
JULY 2021
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SCALE IN FEET