Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264

TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

DESIGN SCHEMATIC

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

COLLIN COUNTY

FM 1461

CSJ:1973-01-015 FM 1461 (FRONTIER PKWY)

FROM SH 289 (PRESTON RD) TO CO RD 166

LENGTH 6.02 MILES (31,793.90 FT)

CSJ:1392-03-012 FM 1461 (LAKE FOREST DR)

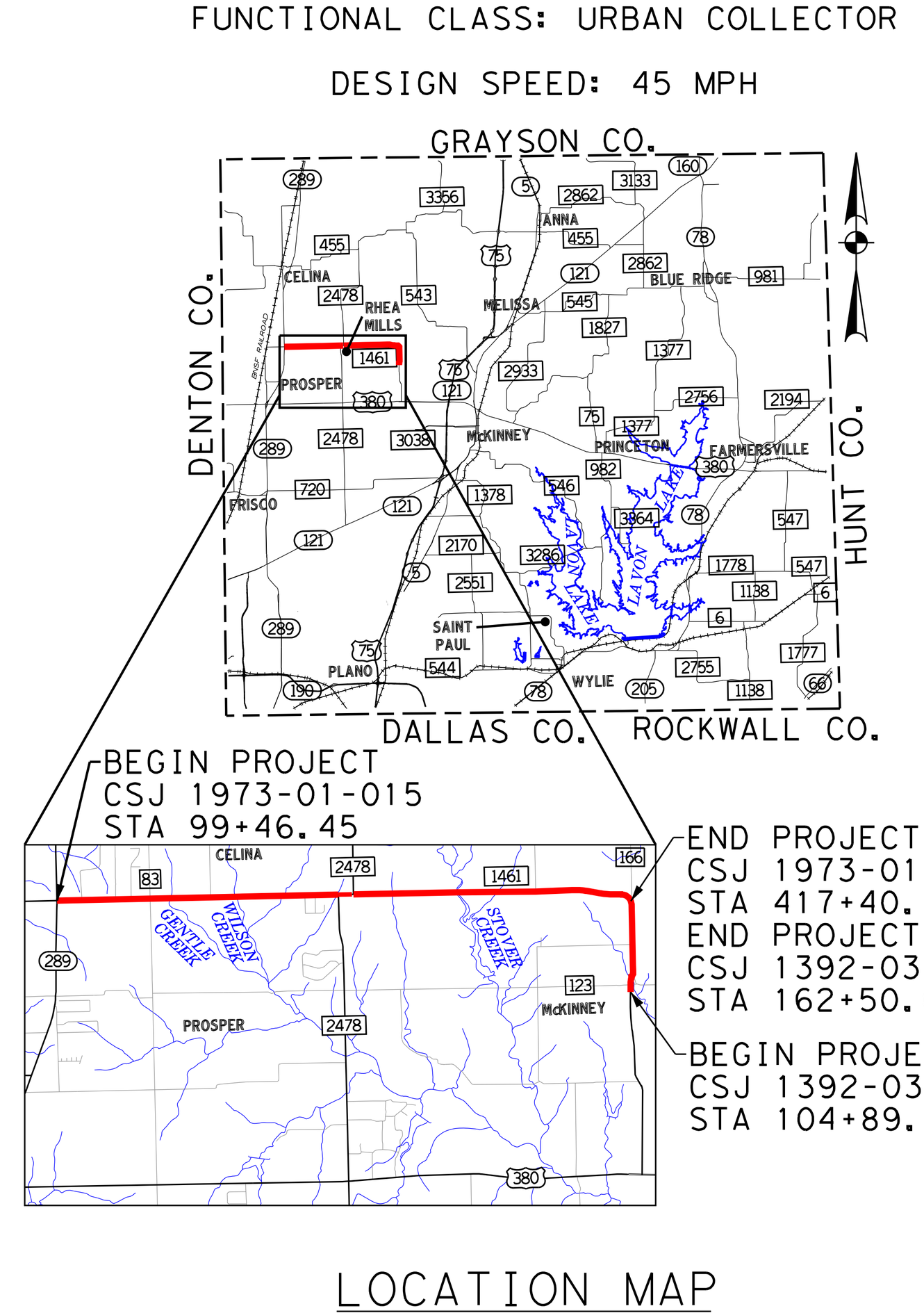
FROM CO RD 123 TO CO RD 166

LENGTH 1.09 MILES (5,760.40 FT)

PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)

FUNCTIONAL CLASS: URBAN COLLECTOR

DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

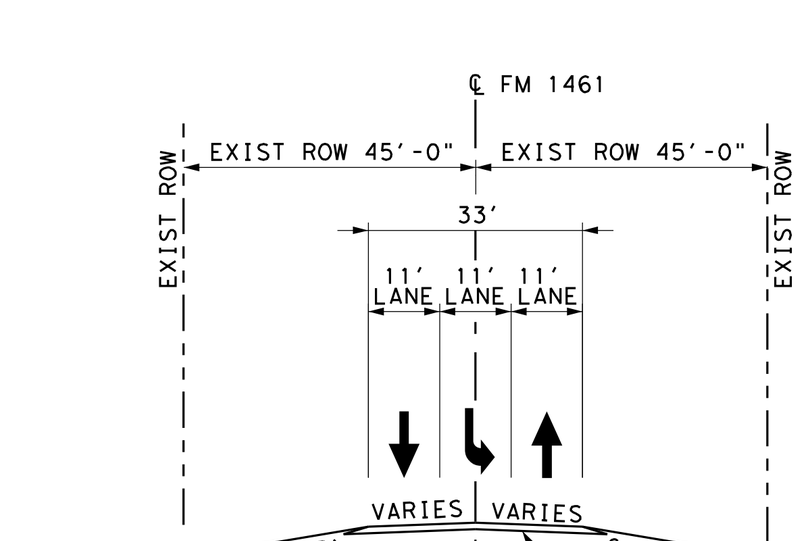
NAME	P.E. NO.	DATE
AARON TAINTER	105733	6/29/2018

ROLL 1 OF 12

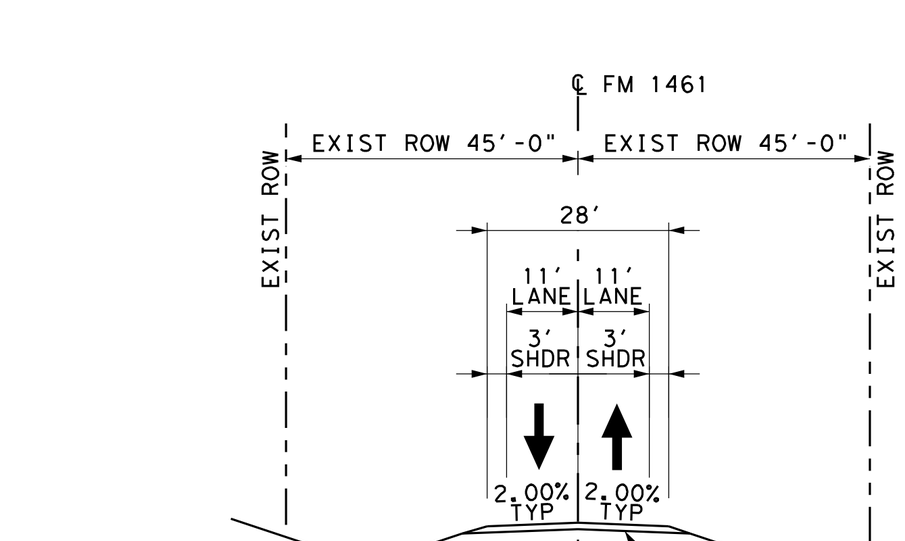
© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

TABLE OF CONTENTS

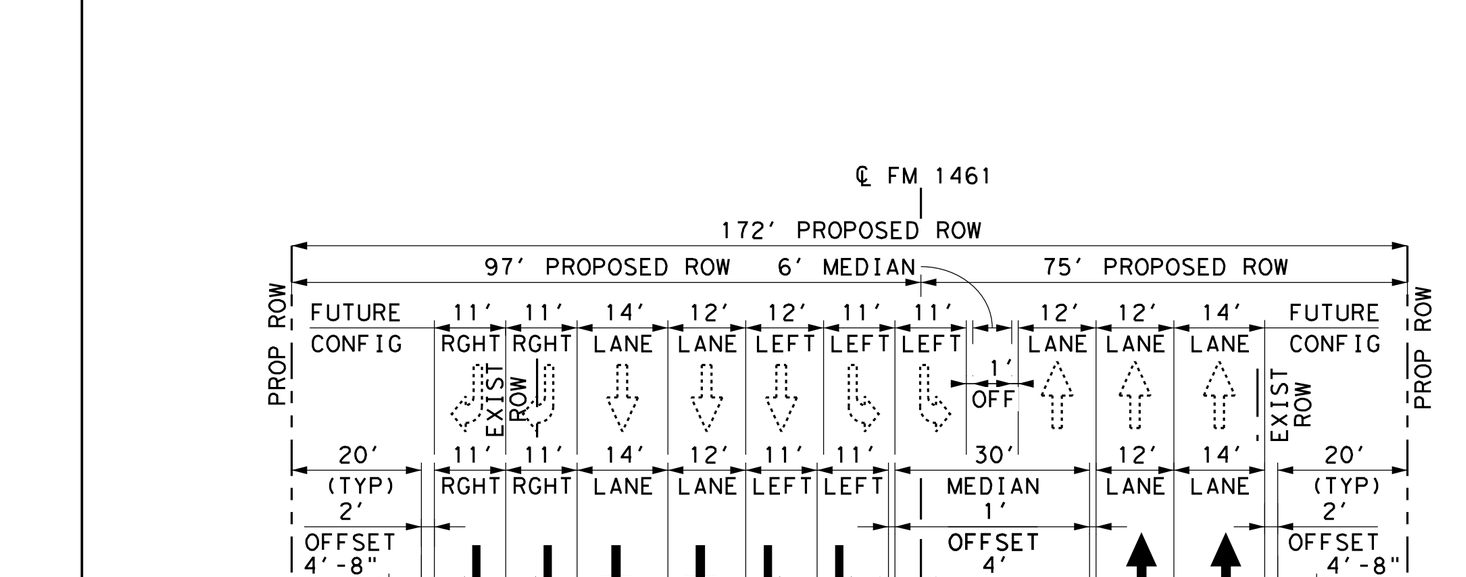
ROLLS 1 - 9 CSJ 1973-01-015 (FRONTIER PARKWAY)
ROLLS 10 - 11 CSJ 1392-03-12 (LAKE FOREST DRIVE)
ROLL 12 CROSS STREET PROFILES AND TYPICAL SECTIONS



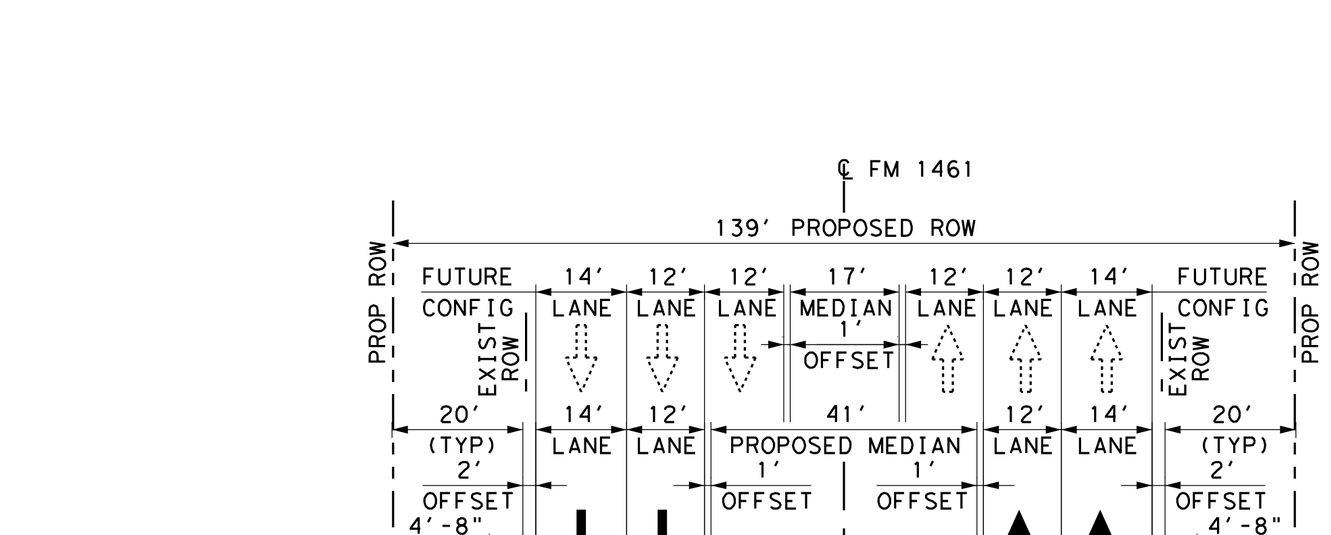
FM 1461 EXISTING TYPICAL SECTION
STA 100+00.00 TO 100+80.00



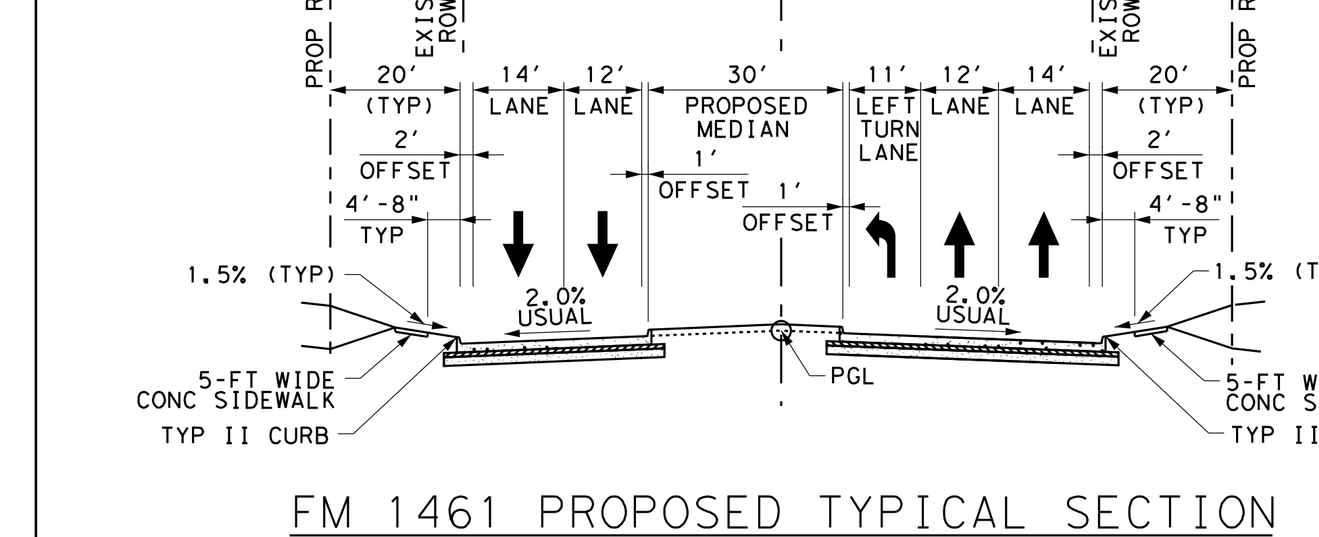
FM 1461 EXISTING TYPICAL SECTION
STA 100+80.00 TO 151+20.00
STA 155+69.00 TO 191+29.00
STA 203+20.00 TO 212+78.00
STA 222+71.00 TO 256+30.00
STA 260+80.00 TO 263+80.00



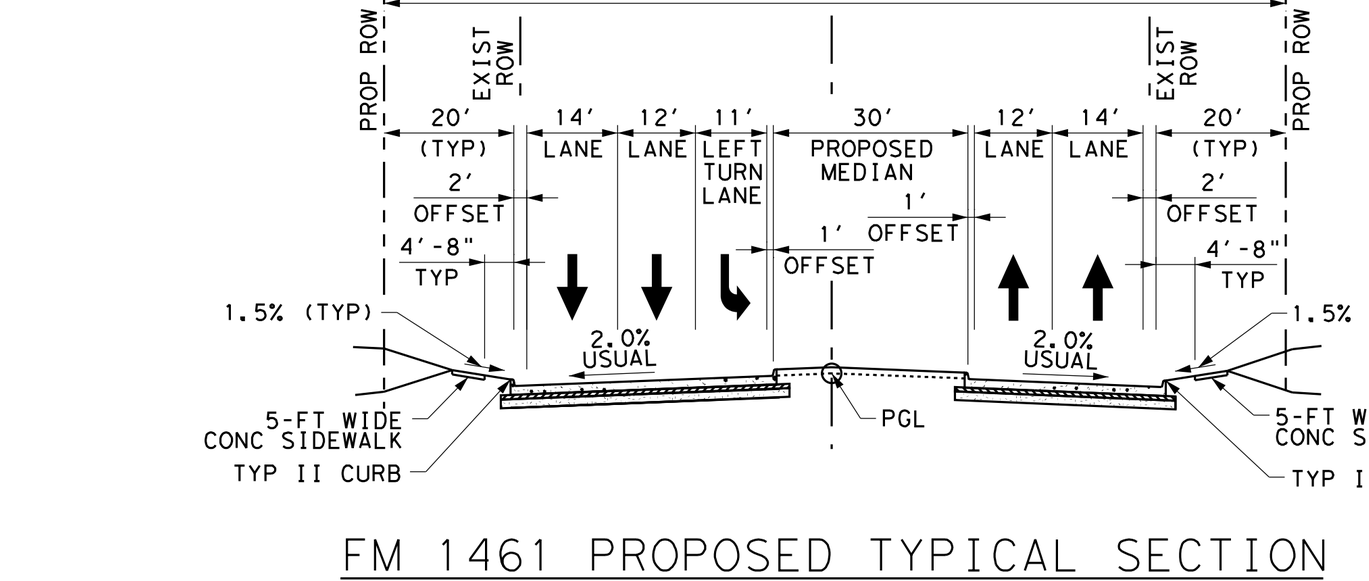
FM 1461 PROPOSED TYPICAL SECTION
AT SH 289 PRESTON RD
PFPCL STA 100+00.00 TO 104+50.00



FM 1461 PROPOSED TYPICAL SECTION
PFPCL STA 107+75.00 TO 108+00.00
PFPCL STA 117+75.00 TO 126+75.00
PFPCL STA 140+25.00 TO 144+50.00
PFPCL STA 171+25.00 TO 179+25.00
PFPCL STA 189+25.00 TO 197+00.00
PFPCL STA 204+50.00 TO 209+00.00
PFPCL STA 225+25.00 TO 227+75.00
PFPCL STA 236+50.00 TO 237+50.00
PFPCL STA 248+00.00 TO 251+00.00
PFPCL STA 275+25.00 TO 219+75.00
PFPCL STA 296+75.00 TO 298+50.00
PFPCL STA 303+50.00 TO 311+50.00
PFPCL STA 313+40.00 TO 319+10.00
PFPCL STA 324+10.00 TO 334+25.00
PFPCL STA 337+50.00 TO 360+00.00
PFPCL STA 370+25.00 TO 388+00.00
PFPCL STA 397+75.00 TO 407+50.00
PFPCL STA 412+25.00 TO 413+60.00



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE
PFPCL STA 104+50.00 TO 107+25.00
PFPCL STA 110+00.00 TO 113+00.00
PFPCL STA 136+00.00 TO 140+25.00
PFPCL STA 156+00.00 TO 159+00.00
PFPCL STA 161+50.00 TO 166+25.00
PFPCL STA 199+50.00 TO 204+50.00
PFPCL STA 227+75.00 TO 233+00.00
PFPCL STA 239+75.00 TO 243+00.00
PFPCL STA 251+00.00 TO 256+00.00
PFPCL STA 287+00.00 TO 291+75.00
PFPCL STA 296+25.00 TO 298+50.00
PFPCL STA 329+50.00 TO 334+25.00
PFPCL STA 335+75.00 TO 337+50.00
PFPCL STA 360+00.00 TO 365+00.00
PFPCL STA 388+00.00 TO 393+00.00
PFPCL STA 402+70.00 TO 407+50.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE
PFPCL STA 107+25.00 TO 110+00.00
PFPCL STA 113+00.00 TO 117+75.00
PFPCL STA 131+75.00 TO 136+00.00
PFPCL STA 150+75.00 TO 156+00.00
PFPCL STA 159+00.00 TO 161+50.00
PFPCL STA 209+00.00 TO 214+00.00
PFPCL STA 237+50.00 TO 239+75.00
PFPCL STA 256+00.00 TO 257+50.00
PFPCL STA 291+75.00 TO 296+75.00
PFPCL STA 298+50.00 TO 303+50.00
PFPCL STA 311+50.00 TO 316+50.00
PFPCL STA 334+25.00 TO 335+75.00
PFPCL STA 365+00.00 TO 370+25.00
PFPCL STA 393+00.00 TO 397+75.00
PFPCL STA 407+50.00 TO 413+00.00

NOTES

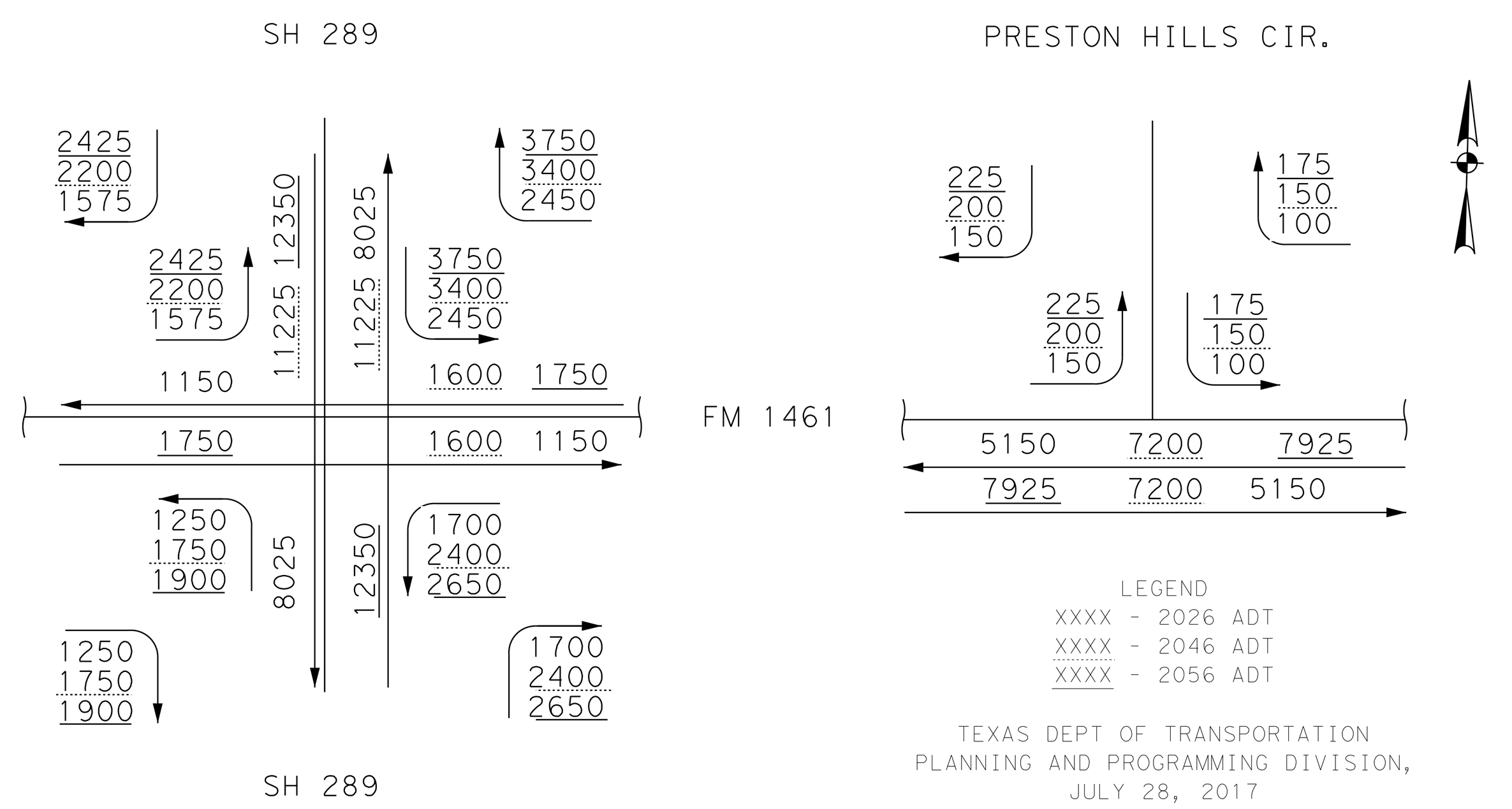
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2017 AND RECORD PLANS. UPDATED IMAGES RECEIVED FEBRUARY 2018.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS 48085C0120J, 48085C0140J, AND 48085C0260J.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018.
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. 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.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ARE TYPE II (8") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- (PFPCL-1) CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

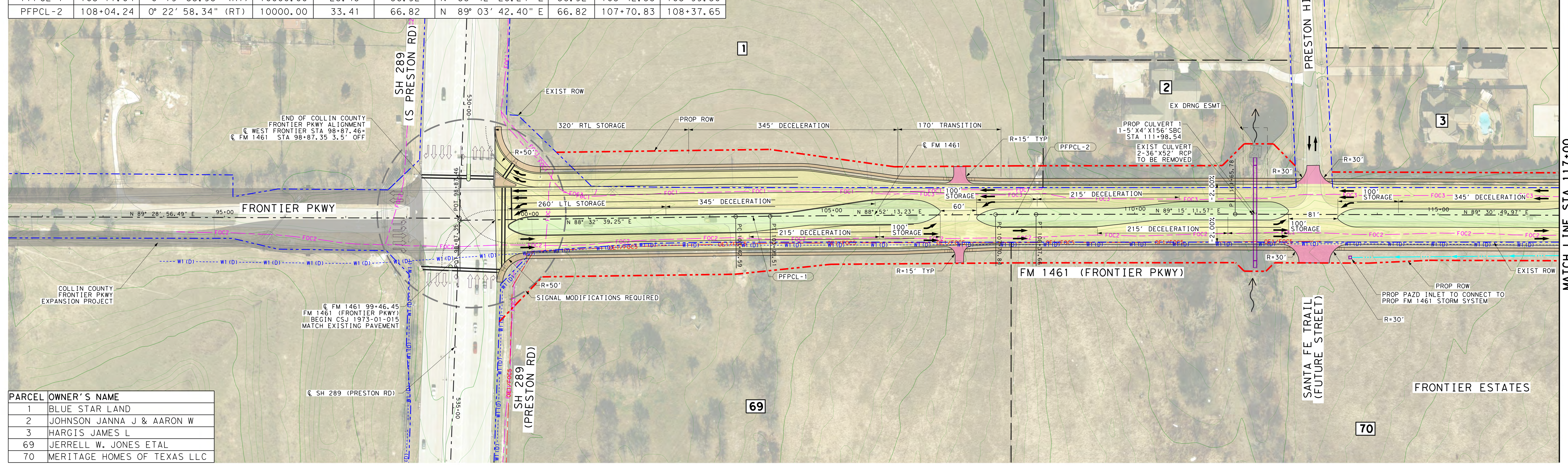
FRONTIER PARKWAY SUPERELEVATION		
LEFT	STATION	SLOPE
MATCH EX ROAD	100+00	-2.00%
END NORMAL CROWN/BEGIN TRANSITION	261+30	-2.00%
END TRANSITION/BEGIN SUPER	262+60	-0.70%
END SUPER/BEGIN TRANSITION	265+00	-0.70%
END TRANSITION/BEGIN NORMAL CROWN	266+30	-2.00%
END NORMAL CROWN/BEGIN TRANSITION	417+00	-2.00%
END TRANSITION/BEGIN SUPER	417+50	-1.90%
RIGHT	STATION	SLOPE
MATCH EX ROAD	100+00	-2.00%
END NORMAL CROWN/BEGIN TRANSITION	259+00	-2.00%
END TRANSITION/BEGIN SUPER	262+60	0.70%
END SUPER/BEGIN TRANSITION	265+00	0.70%
END TRANSITION/BEGIN NORMAL CROWN	268+40	-2.00%
END NORMAL CROWN/BEGIN TRANSITION	412+00	-2.00%
END TRANSITION/BEGIN SUPER	417+50	1.90%

TRAFFIC DIAGRAMS

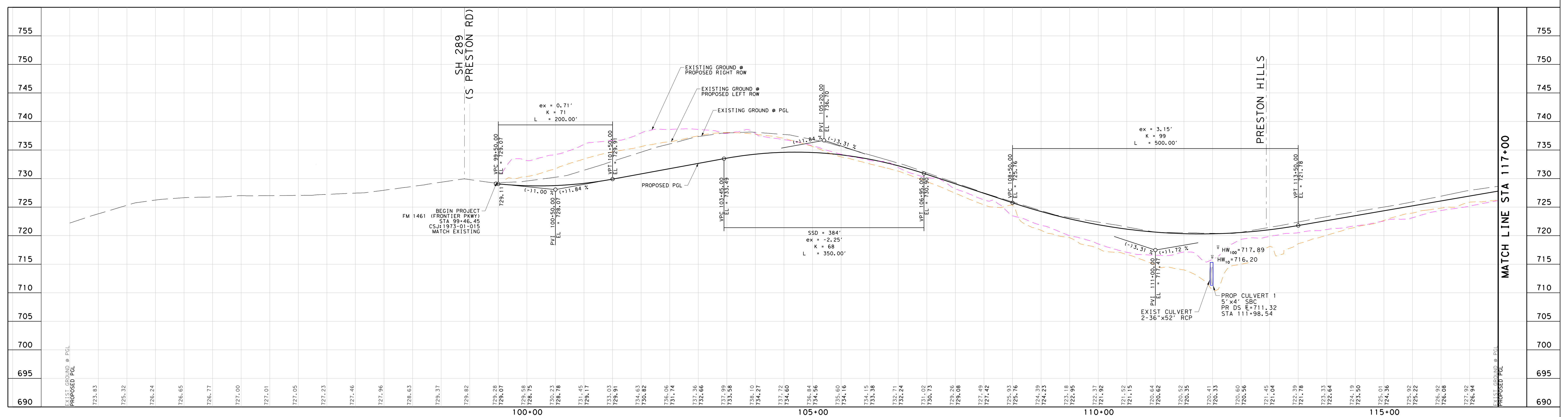


TEXAS DEPT OF TRANSPORTATION
PLANNING AND PROGRAMMING DIVISION,
JULY 28, 2017

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-1	103+71.04	0° 19′ 33.98" (RT)	10000.00	28.46	56.92	N 88° 42′ 26.24" E	56.92	103+42.58	103+99.50
PFPCL-2	108+04.24	0° 22′ 58.34" (RT)	10000.00	33.41	66.82	N 89° 03′ 42.40" E	66.82	107+70.83	108+37.65



PARCEL	OWNER'S NAME
1	BLUE STAR LAND
2	JOHNSON JANNA J & AARON W
3	HARGIS JAMES L
69	JERRELL W. JONES ETAL
70	MERITAGE HOMES OF TEXAS LLC



Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264

TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

DESIGN SCHEMATIC

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

COLLIN COUNTY

FM 1461

CSJ:1973-01-015 FM 1461 (FRONTIER PKWY)

FROM SH 289 (PRESTON RD) TO CO RD 166

LENGTH 6.02 MILES (31,793.90 FT)

CSJ:1392-03-012 FM 1461 (LAKE FOREST DR)

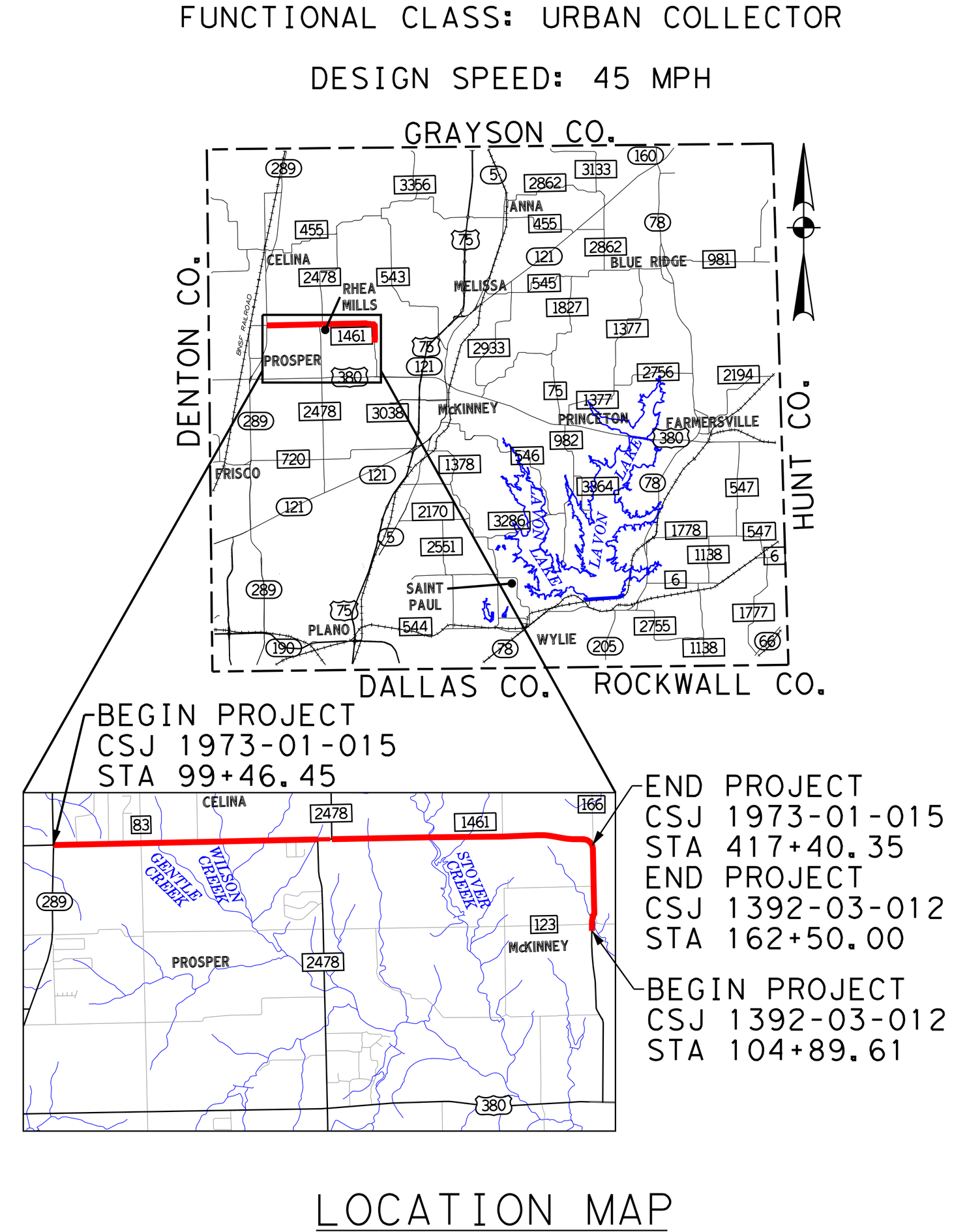
FROM CO RD 123 TO CO RD 166

LENGTH 1.09 MILES (5,760.40 FT)

PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)

FUNCTIONAL CLASS: URBAN COLLECTOR

DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TAINTER 105733 6/29/2018
NAME P.E. NO. DATE

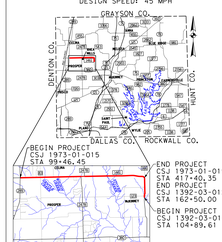
ROLL 1 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-3727

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

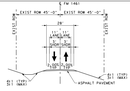
APPROVED SCHEMATIC JUNE 29, 2018

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

NAME	P.E. NO.	DATE
AARON TANTER	105733	6/29/2018

ROLL 2 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



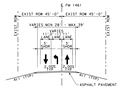
FM 1461 EXISTING TYPICAL SECTION

STA 100+80.00 TO 151+20.00
STA 159+48.00 TO 191+26.00
STA 203+25.00 TO 217+78.00
STA 232+00.00 TO 260+80.00
STA 282+80.00 TO 289+80.00



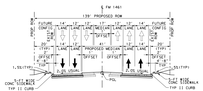
FM 1461 EXISTING TYPICAL SECTION

STA 151+00.00 TO 159+48.00
STA 256+30.00 TO 259+30.00



FM 1461 EXISTING TYPICAL SECTION

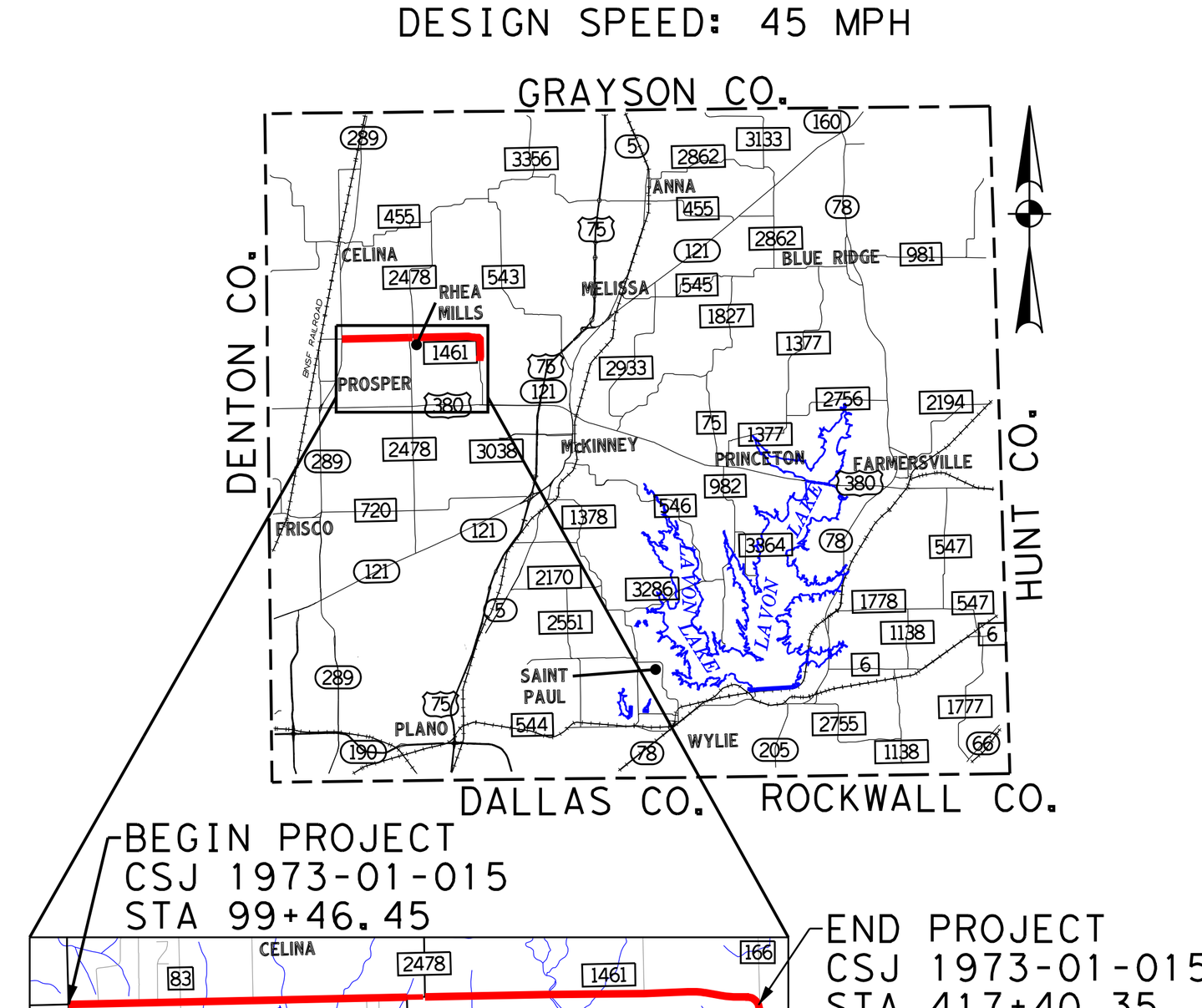
STA 191+26.00 TO 203+25.00
STA 217+78.00 TO 219+80.00


150' PROPOSED ROW
VARIES
VARIES
VARIES

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ:1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ:1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

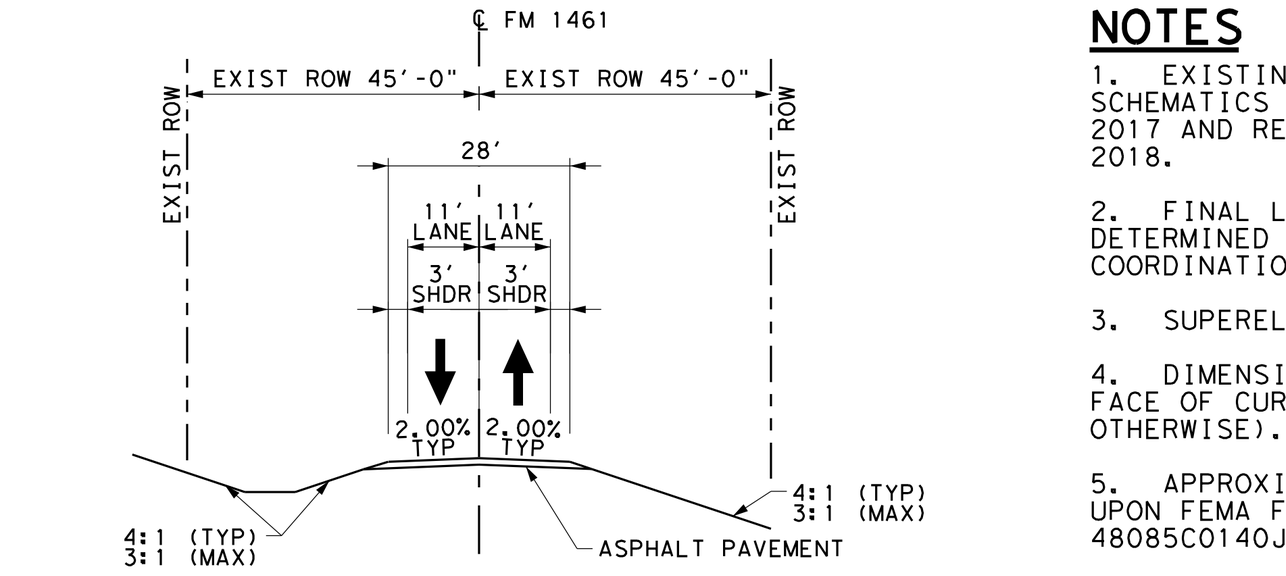
APPROVED SCHEMATIC JUNE 29, 2018

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

NAME	P.E. NO.	DATE
AARON TAINTER	105733	6/29/2018

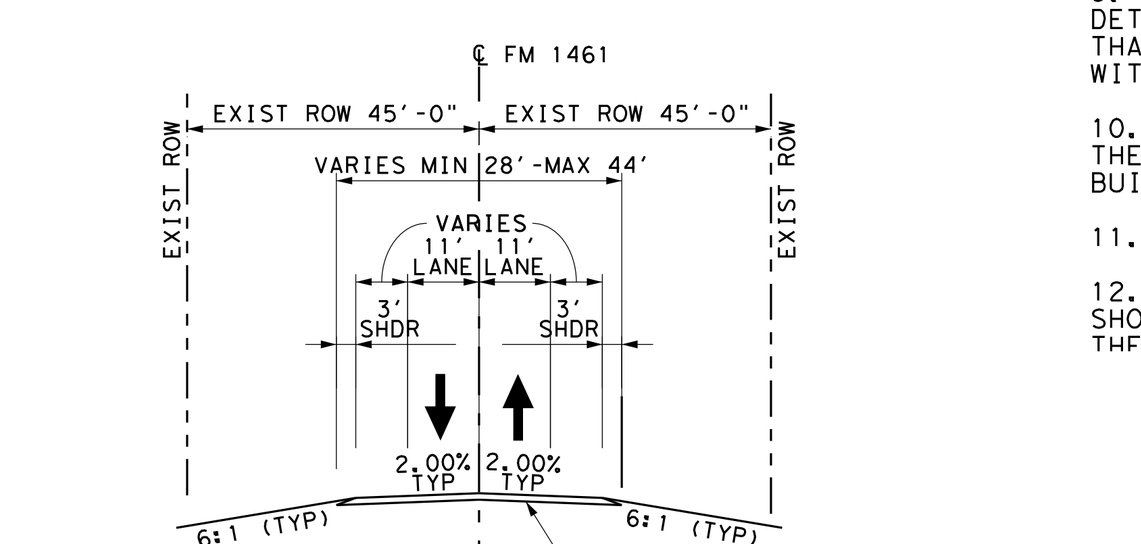
ROLL 3 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



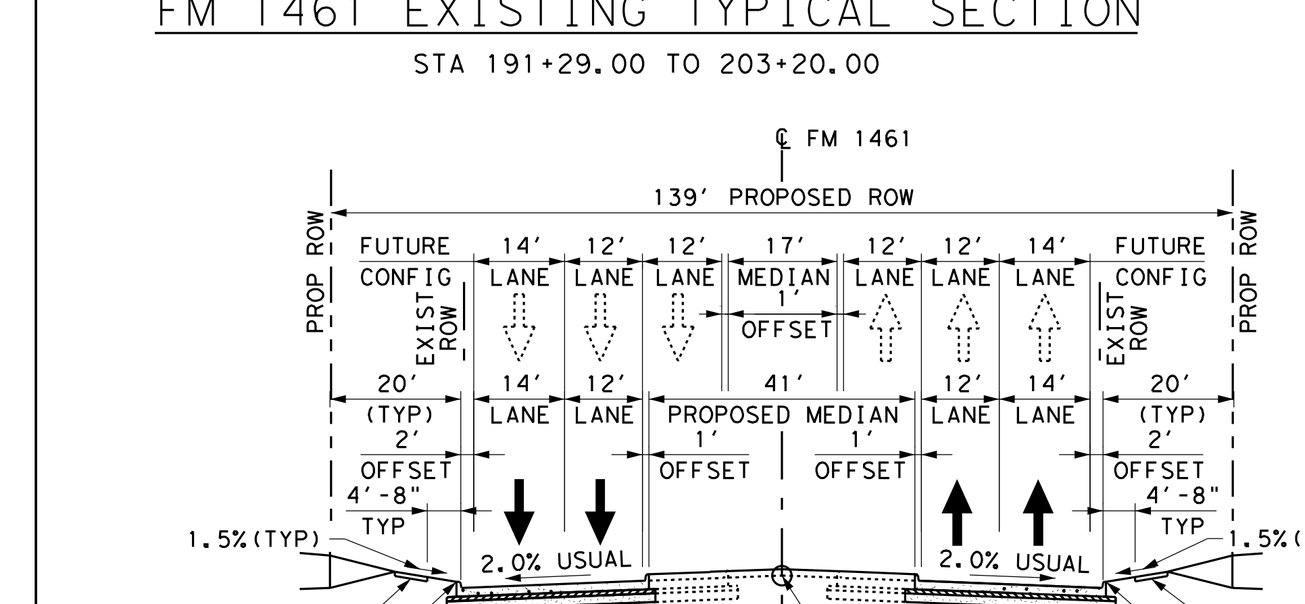
FM 1461 EXISTING TYPICAL SECTION

STA 100+80.00 TO 151+20.00
STA 155+69.00 TO 191+29.00
STA 203+20.00 TO 212+78.00
STA 222+71.00 TO 256+30.00
STA 260+80.00 TO 263+80.00



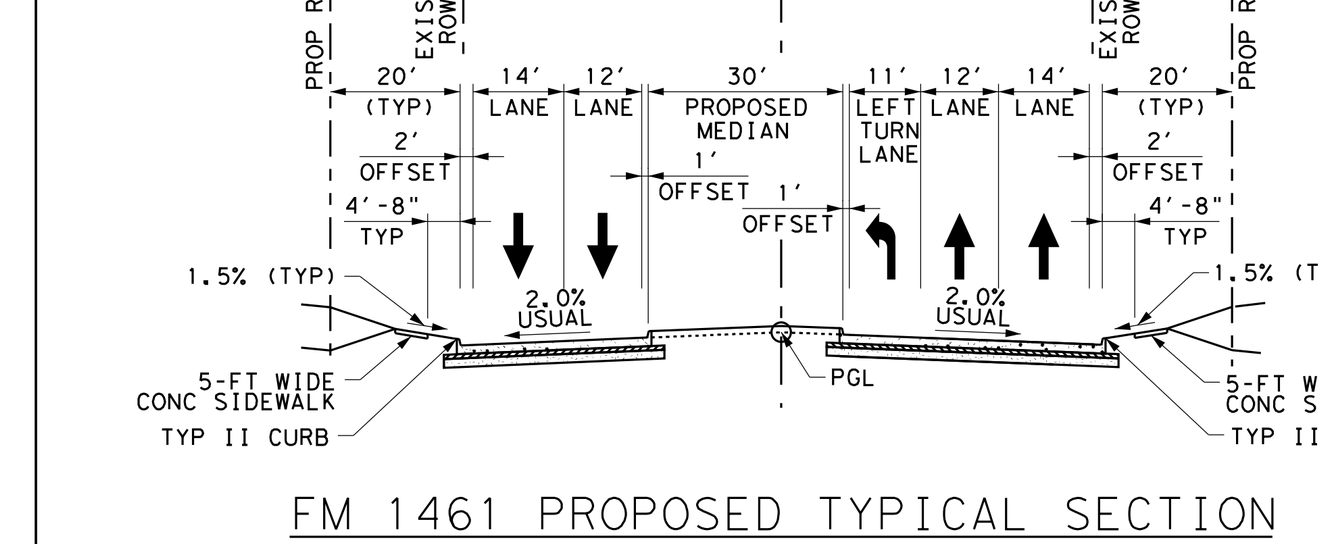
FM 1461 EXISTING TYPICAL SECTION

STA 191+29.00 TO 203+20.00



FM 1461 PROPOSED TYPICAL SECTION

PFPCL STA 107+75.00 TO 108+00.00
PFPCL STA 117+75.00 TO 126+75.00
PFPCL STA 140+25.00 TO 144+50.00
PFPCL STA 171+25.00 TO 179+25.00
PFPCL STA 189+25.00 TO 197+00.00
PFPCL STA 204+50.00 TO 209+00.00
PFPCL STA 225+25.00 TO 227+75.00
PFPCL STA 236+50.00 TO 237+50.00
PFPCL STA 248+00.00 TO 251+00.00
PFPCL STA 275+25.00 TO 219+75.00
PFPCL STA 296+75.00 TO 298+50.00
PFPCL STA 303+50.00 TO 311+50.00
PFPCL STA 313+40.00 TO 319+10.00
PFPCL STA 324+10.00 TO 334+25.00
PFPCL STA 337+50.00 TO 360+00.00
PFPCL STA 370+25.00 TO 388+00.00
PFPCL STA 397+75.00 TO 407+50.00
PFPCL STA 412+25.00 TO 413+60.00



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE

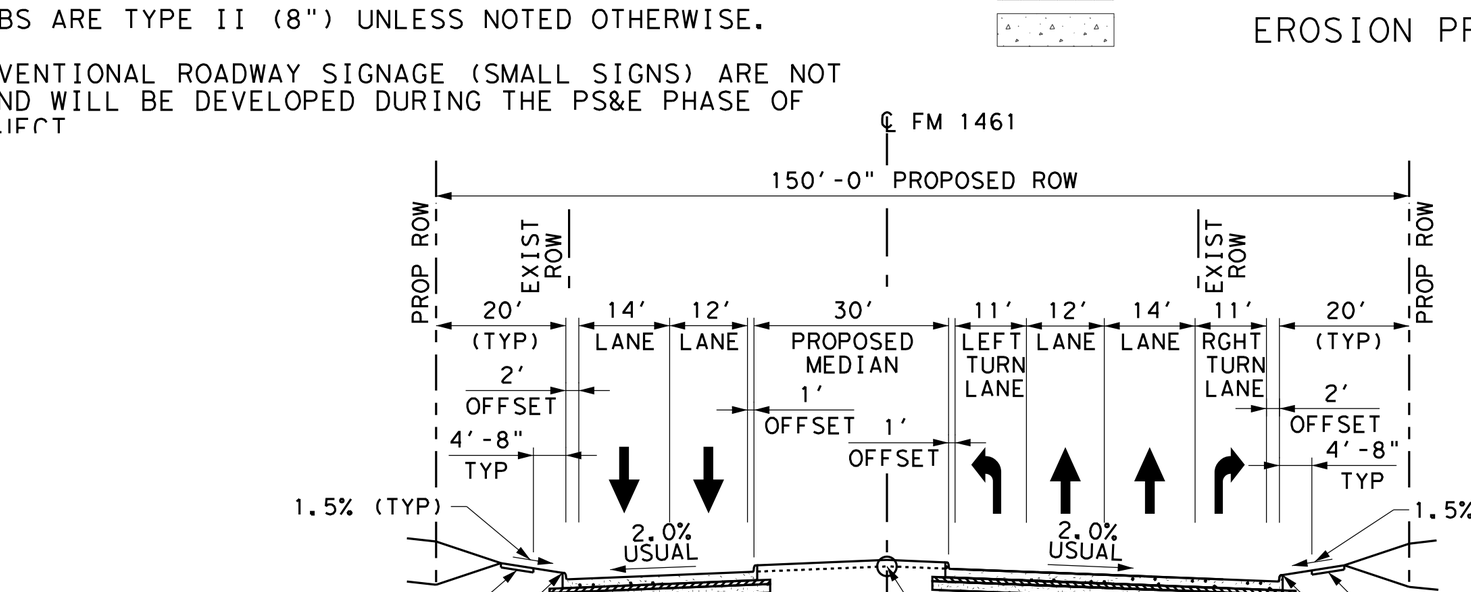
PFPCL STA 104+50.00 TO 107+25.00
PFPCL STA 110+00.00 TO 113+00.00
PFPCL STA 136+00.00 TO 140+25.00
PFPCL STA 156+00.00 TO 159+00.00
PFPCL STA 161+50.00 TO 166+25.00
PFPCL STA 199+50.00 TO 204+50.00
PFPCL STA 227+75.00 TO 233+00.00
PFPCL STA 239+75.00 TO 243+00.00
PFPCL STA 251+00.00 TO 256+00.00
PFPCL STA 287+00.00 TO 291+75.00
PFPCL STA 296+25.00 TO 298+50.00
PFPCL STA 329+50.00 TO 334+25.00
PFPCL STA 335+75.00 TO 337+50.00
PFPCL STA 360+00.00 TO 365+00.00
PFPCL STA 388+00.00 TO 393+00.00
PFPCL STA 402+70.00 TO 407+50.00

NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2017 AND RECORD PLANS. UPDATED IMAGES RECEIVED FEBRUARY 2018.
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 PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS 48085C0120J, 48085C0140J, AND 48085C0260J.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. 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.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ARE TYPE II (8") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

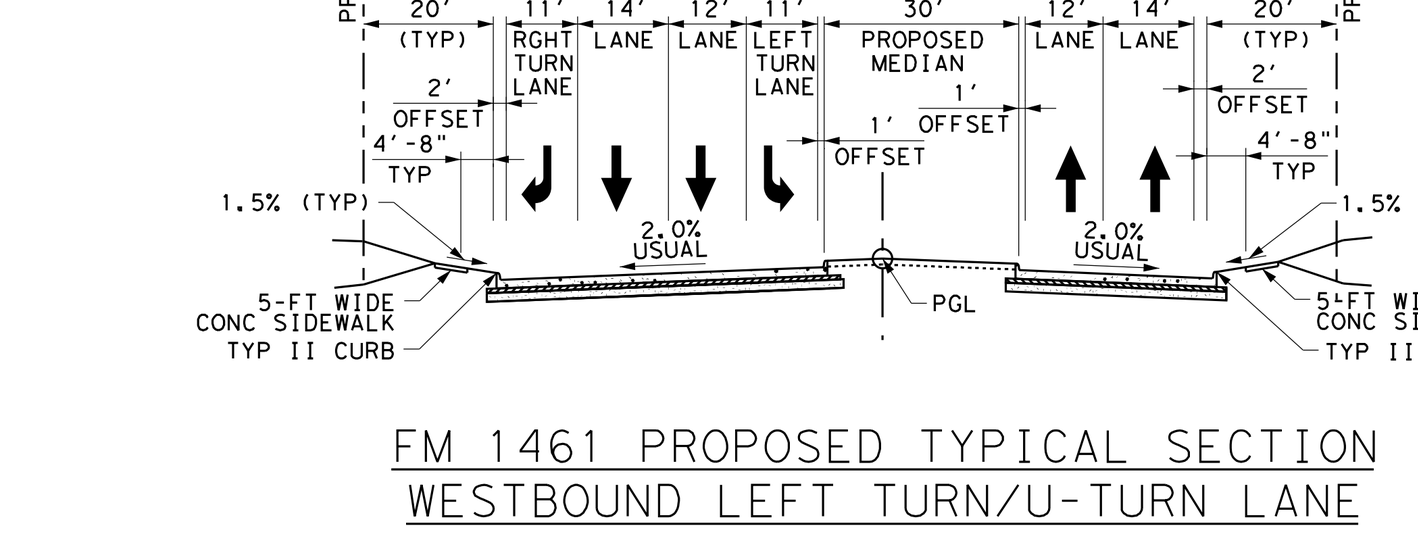
LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- CURVE NUMBER (PFPCL-1)
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE
AND RIGHT TURN LANE

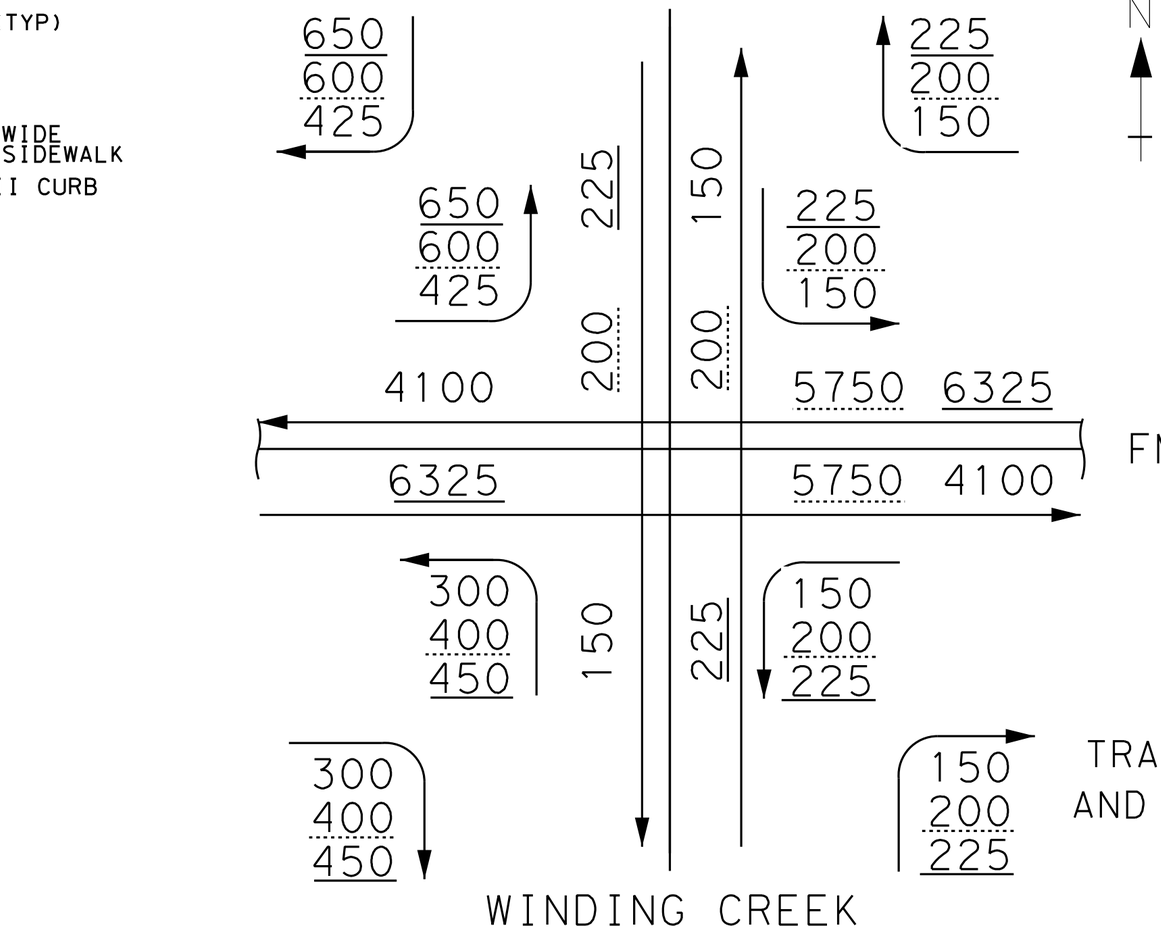
PFPCL STA 126+75.00 TO 131+75.00
PFPCL STA 144+50.00 TO 150+75.00
PFPCL STA 179+25.00 TO 184+25.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE
AND RIGHT TURN LANE

PFPCL STA 150+75.00 TO 156+00.00
PFPCL STA 166+25.00 TO 171+25.00
PFPCL STA 184+25.00 TO 189+25.00
PFPCL STA 219+75.00 TO 225+25.00
PFPCL STA 233+00.00 TO 236+50.00
PFPCL STA 243+00.00 TO 248+00.00

TRAFFIC DIAGRAM

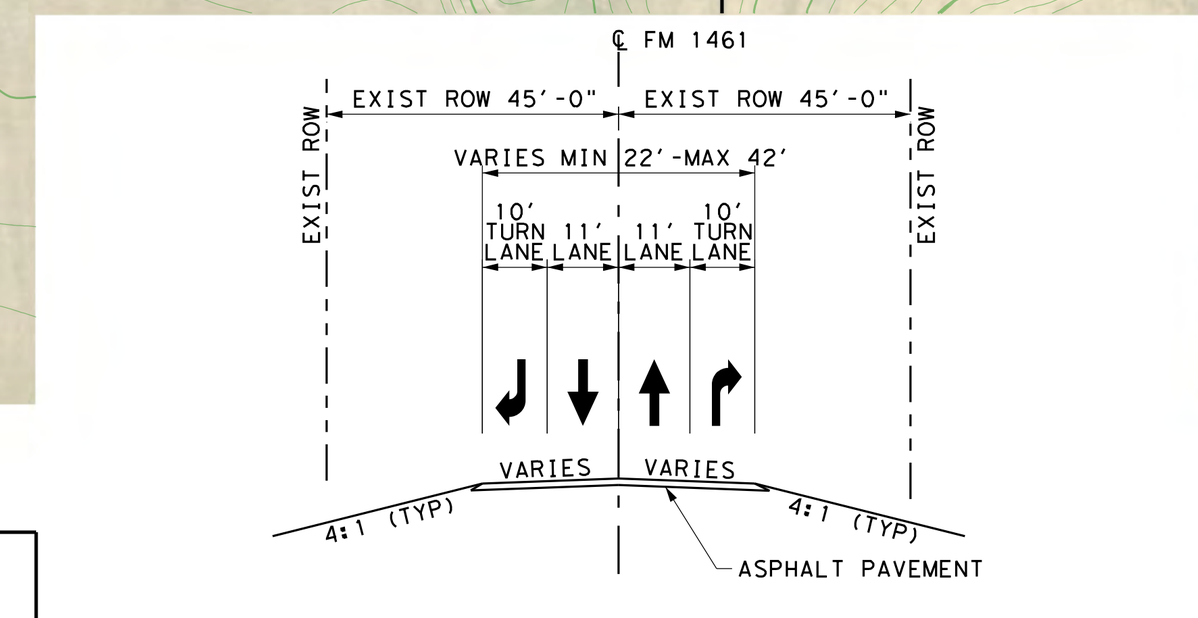


LEGEND
XXXX - 2026 ADT
XXXX - 2046 ADT
XXXX - 2056 ADT

TEXAS DEPT OF
TRANSPORTATION PLANNING
AND PROGRAMMING DIVISION
JULY 28, 2017

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-6	156+34.17	4° 27' 32.13" (LT)	2,000.00	77.86	155.65	S 87° 59' 13.38" E	155.61	155+56.31	157+11.95
PFPCL-7	193+14.39	4° 26' 33.00" (RT)	2,000.00	77.58	155.07	S 88° 29' 22.36" E	155.03	192+36.82	193+91.89

PARCEL	OWNER'S NAME	PARCEL	OWNER'S NAME
11	FRONTIER RETAIL PARTNERS, LP	83	DA'HOOD TRUST
12	CELINA DEVELOPMENT, LLC	84	ROGERS MICHAEL D
13	WELLS SOUTH PHASE 1, LLC	85	GIVENS WILLIAM F
14-36	WELLS SOUTH PHASE 1, LLC	86	STIGLETS JAMES
37	HAWKINS MICHAEL J & CARA A	87	PETERS EDMOND L & JOYCE L
38	CARTER M JAY & DEBORAH L	88	LATIMER JAMES DAVID
39	KOOIMAN BRIAN B	89	CARTER CARY GRAYSON
81	R.L. WHITE LIVING TRUST	90	MALONE DANNY PAUL & STACIA
82	JIANMING HE and CYNTHIA ZHENG	91	ZUEHL SCOTT M



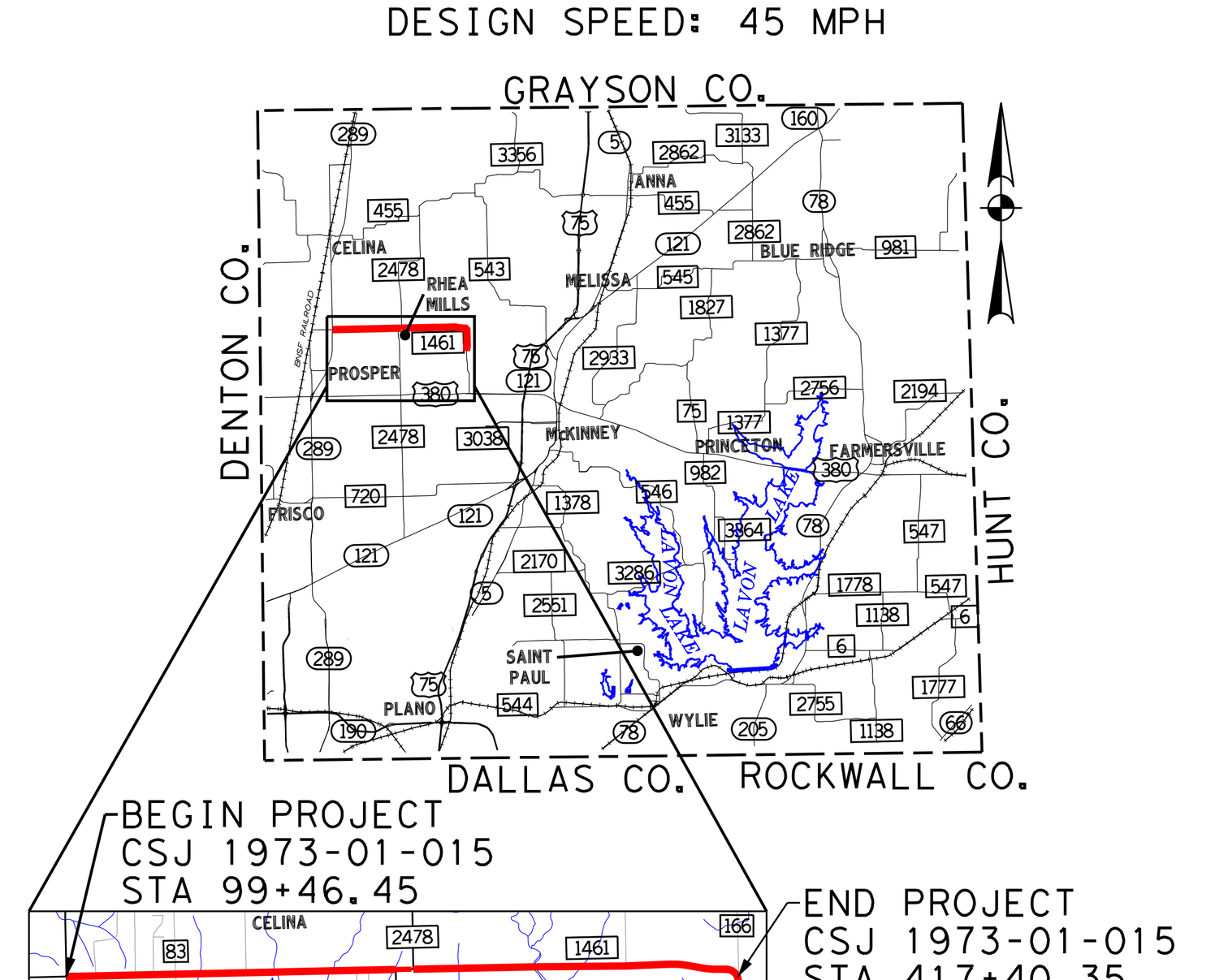
FM 1461 EXISTING TYPICAL SECTION

EB STA 60+84.00 TO 69+93.00
WB STA 55+00.00 TO 67+70.00

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO. 264

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ:1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ:1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TAINTER 105733 6/29/2018
NAME P.E. NO. DATE

ROLL 3 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
TBPE REGISTRATION NO 284

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

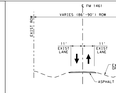
APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TANTER	105733	6/29/2018
NAME	P.E. NO.	DATE

ROLL 4 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



FM 1461 EXISTING TYPICAL SECTION
PFPCL STA 163+85.00 TO 414+85.00
PLYCL STA 104+50.00 TO 155+00.00



FM 1461 EXISTING TYPICAL SECTION
STA 181+29.00 TO 203+05.00



FM 1461 PROPOSED TYPICAL SECTION
PFPCL STA 107+75.00 TO 158+00.00
PFPCL STA 161+75.00 TO 176+75.00
PFPCL STA 179+75.00 TO 189+25.00
PFPCL STA 189+25.00 TO 197+00.00
PFPCL STA 197+00.00 TO 227+75.00
PFPCL STA 229+75.00 TO 237+50.00
PFPCL STA 239+50.00 TO 257+50.00
PFPCL STA 259+75.00 TO 278+75.00
PFPCL STA 278+75.00 TO 298+50.00
PFPCL STA 298+50.00 TO 313+00.00
PFPCL STA 313+00.00 TO 334+25.00
PFPCL STA 334+25.00 TO 353+75.00
PFPCL STA 353+75.00 TO 367+50.00
PFPCL STA 367+75.00 TO 407+50.00
PFPCL STA 412+25.00 TO 518+00.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE
AND RIGHT TURN LANE
PFPCL STA 156+75.00 TO 156+00.00
PFPCL STA 156+75.00 TO 164+00.00
PFPCL STA 164+75.00 TO 170+25.00
PFPCL STA 219+75.00 TO 220+25.00
PFPCL STA 221+75.00 TO 222+50.00
PFPCL STA 243+00.00 TO 248+50.00



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE
PFPCL STA 104+50.00 TO 157+25.00
PFPCL STA 157+25.00 TO 166+25.00
PFPCL STA 166+00.00 TO 168+25.00
PFPCL STA 168+25.00 TO 190+50.00
PFPCL STA 190+50.00 TO 204+50.00
PFPCL STA 204+50.00 TO 234+75.00
PFPCL STA 234+75.00 TO 249+50.00
PFPCL STA 251+00.00 TO 294+50.00
PFPCL STA 294+50.00 TO 296+25.00
PFPCL STA 296+25.00 TO 298+50.00
PFPCL STA 329+50.00 TO 334+25.00
PFPCL STA 334+25.00 TO 360+50.00
PFPCL STA 360+50.00 TO 369+50.00
PFPCL STA 388+00.00 TO 389+50.00
PFPCL STA 402+75.00 TO 407+50.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE
PFPCL STA 157+25.00 TO 170+00.00
PFPCL STA 170+00.00 TO 176+00.00
PFPCL STA 151+75.00 TO 156+00.00
PFPCL STA 156+00.00 TO 156+75.00
PFPCL STA 214+00.00 TO 214+50.00
PFPCL STA 214+50.00 TO 219+75.00
PFPCL STA 220+25.00 TO 221+75.00
PFPCL STA 296+75.00 TO 298+75.00
PFPCL STA 298+50.00 TO 311+50.00
PFPCL STA 311+50.00 TO 334+25.00
PFPCL STA 334+25.00 TO 335+75.00
PFPCL STA 335+75.00 TO 360+50.00
PFPCL STA 360+50.00 TO 369+50.00
PFPCL STA 407+50.00 TO 413+00.00

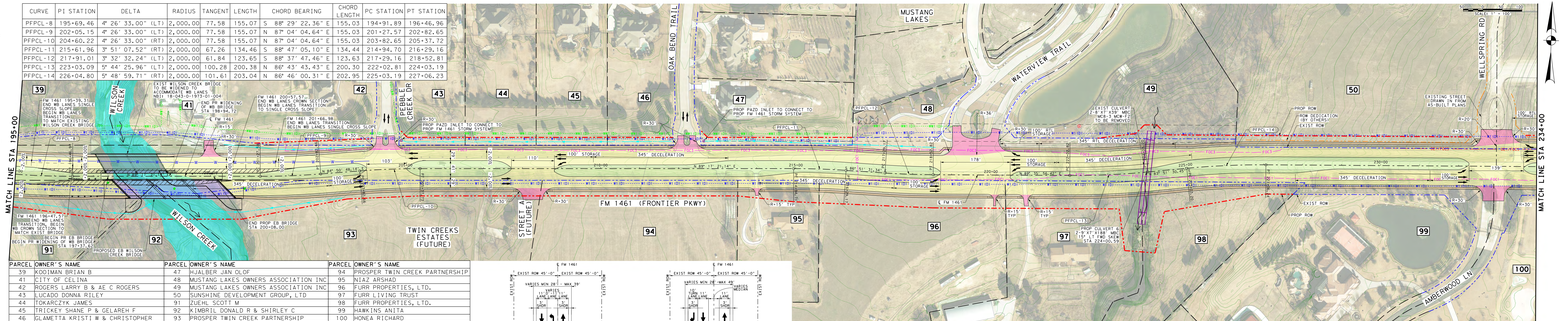
NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2016 AND RECORD PLANS. UPDATED IMAGES RECEIVED FEBRUARY 2016.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED BY TRAFFIC ENGINEERING STUDIES AND COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PCL.
4. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL CURB LINE, UNLESS, FACE, BARRIERS, OR WALL (UNLESS NOTED OTHERWISE).
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAPS (NUMBERS 48085C0215J AND 48085C0220J).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018.
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING FINAL. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING FINAL DESIGN THAT THE DRIVEWAY IS SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF FINAL DESIGN NOW PARTICULARLY INTERESTED THE EXISTING BUILDING FOOTPRINT.
11. CURVES ARE TYPE (-) SPI UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE "PS&E PHASE OF THE PROJECT.

LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-8	195+69.46	4° 26' 33.00" (LT)	2,000.00	77.58	155.07	S 88° 29' 22.36" E	155.03	194+91.89	196+46.96
PFPCL-9	202+05.15	4° 26' 33.00" (LT)	2,000.00	77.58	155.07	N 87° 04' 04.64" E	155.03	201+27.57	202+82.65
PFPCL-10	204+60.22	4° 26' 33.00" (RT)	2,000.00	77.58	155.07	N 87° 04' 04.64" E	155.03	203+82.65	205+37.72
PFPCL-11	215+61.96	3° 51' 07.52" (RT)	2,000.00	67.26	134.46	S 88° 47' 05.10" E	134.44	214+94.70	216+29.16
PFPCL-12	217+91.01	3° 32' 32.24" (LT)	2,000.00	61.84	123.65	S 88° 37' 47.46" E	123.63	217+29.16	218+52.81
PFPCL-13	223+03.09	5° 44' 25.96" (LT)	2,000.00	100.28	200.38	N 86° 43' 45.43" E	200.30	222+02.81	224+03.19
PFPCL-14	226+04.80	9° 48' 59.71" (RT)	2,000.00	101.61	203.04	N 86° 46' 00.31" E	202.95	225+03.19	227+06.23


MUSTANG LAKES
WATERVIEW TRAIL
OAK BEND TRAIL
WELLSPRING RD
PEBBLE CREEK DR
FILBERT CREEK
WILSON CREEK
FM 1461 (FRONTIER PKWY)
MATCH LINE STA 195+00
MATCH LINE STA 234+00
TWIN CREEKS ESTATES (FUTURE)
PEBBLE CREEK ESTATES
AUBREY WOOD LN
39
41
42
43
44
45
46
47
48
49
50
91
92
93
94
95
96
97
98
99
100
FM 1461 (LAKE FOREST DR)
FM 1461 (FRONTIER PKWY)
PROP PAVING TO CONNECT TO PROP FM 1461 TOWN SYSTEM
PROP PAVING TO CONNECT TO PROP FM 1461 TOWN SYSTEM
PROP 6' CONC SIDEWALK
PROP 10' CONC SHARED USE PATH
PROP 4' CONC SIDEWALK
PROP 2' CURB & GUTTER
PROP 6' MEDIAN
PROP 12' LANE
PROP 11' LANE
PROP 10' LANE
PROP 2' CURB & GUTTER
PROP 4' CONC SIDEWALK
PROP 10' CONC SHARED USE PATH
PROP 6' CONC SIDEWALK
PROP FUTURE CONC SIDEWALK
EXIST ROW
PROP ROW
PROP ROW DEDICATION BY PLAT
EXISTING STREET LIGHTING (TYP.)
PROP STREET LIGHTING (TYP.)
345' DECELERATION
345' STORAGE
178' STORAGE
PROP 10' CONC SHARED USE PATH TYP. (1 CURB)
PROP 4' CONC SIDEWALK TYP. (1 CURB)
PROP 2' CURB & GUTTER TYP. (2 CURB)
PROP 4' CONC SIDEWALK TYP. (1 CURB)
PROP 10' CONC SHARED USE PATH TYP. (1 CURB)
PROP FUTURE CONC SIDEWALK TYP. (1 CURB)
PROP 2' CURB & GUTTER TYP. (2 CURB)
PROP 4' CONC SIDEWALK TYP. (1 CURB)
PROP 10' CONC SHARED USE PATH TYP. (1 CURB)
PROP FUTURE CONC SIDEWALK TYP. (1 CURB)
FM 1461 (139' PROPOSED ROW)
FM 1461 (150' PROPOSED ROW)
FM 1461 (139'-0" PROPOSED ROW)
FM 1461 (139'-0" PROPOSED ROW)
FM 1461 (139'-0"

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-3727
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

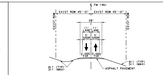
APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TANTER	105733	6/29/2018	
NAME	P.E. NO.	DATE	

ROLL 5 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED


FM 1461 EXISTING TYPICAL SECTION


FM 1461 PROPOSED TYPICAL SECTION


FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE


FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE
AND RIGHT TURN LANE


FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE


FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND DUAL LEFT TURN LANES

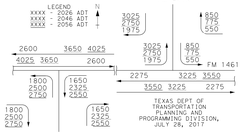
NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2013 AND RECORD PLANS. UPDATED IMAGES RECEIVED FEBRUARY 2018.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED DURING THE PS&E PHASE OF THE PROJECT IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE FACE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON FEMA FIRM MAPS (48085C0430J, 48085C0435J, 48085C0440J, AND 48085C0445J).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018.
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM SURVEY INFORMATION.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON PAVING SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING THE PS&E PHASE OF THE PROJECT THAT THE DRIVEWAY IS A SAFETY ISSUE AND NEEDS TO BE RELOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN FOR VISUAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING FOOTPRINT.
11. CURVES ARE TYPE II (R) UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

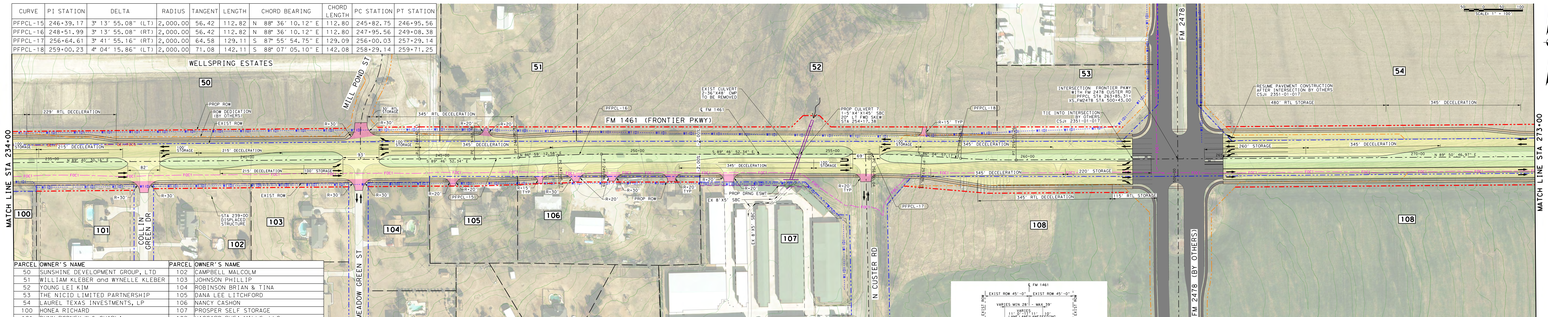
LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- PEPFCL-1 — CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

TRAFFIC DIAGRAMS

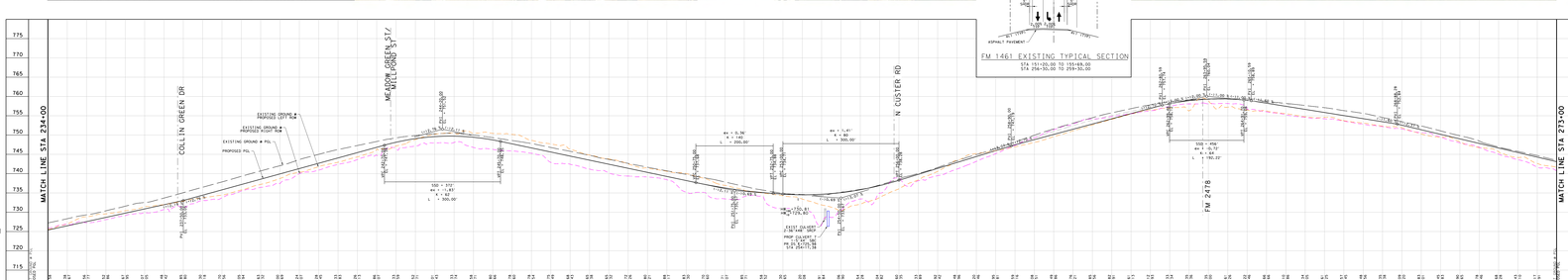


CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-15	246+39.17	3° 13' 55.08" (LT)	2,000.00'	56.42	112.82	N 88° 36' 10.12" E	112.80	245+82.75	246+95.56
PFPCL-16	248+51.99	3° 13' 55.08" (RT)	2,000.00'	56.42	112.82	N 88° 36' 10.12" E	112.80	247+95.56	249+08.38
PFPCL-17	256+64.61	3° 41' 55.16" (RT)	2,000.00'	64.58	129.11	S 87° 55' 54.75" E	129.09	256+00.03	257+29.14
PFPCL-18	259+00.23	4° 04' 15.86" (LT)	2,000.00'	71.08	142.11	S 88° 07' 05.10" E	142.08	258+29.14	259+71.25



PARCEL	OWNER'S NAME	PARCEL	OWNER'S NAME
50	SUNSHINE DEVELOPMENT GROUP, LTD	102	CAMPBELL MALCOLM
51	WILLIAM KLEBER and WYNELLE KLEBER	103	JOHNSON PHILLIP
52	YOUNG LEE KIM	104	ROBINSON BRIAN & TINA
53	THE NICIO LIMITED PARTNERSHIP	105	DANA LEE LITCHFORD
54	LAUREL TEXAS INVESTMENTS, LP	106	NANCY CASHON
100	MONEA RICHARD	107	PROSPER SELF STORAGE
101	DUNN RODNEY W & CHARLA	108	HAGGARD RHEA MILLS, LLC

FM 1461 EXISTING TYPICAL SECTION



Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-3727
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TANTER	105733	6/29/2018	
NAME	P.E. NO.	DATE	

ROLL 5 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
TBPE REGISTRATION NO 984

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

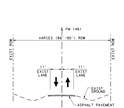
APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TANTER	105733	6/29/2018
NAME	P.E. NO.	DATE

ROLL 6 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



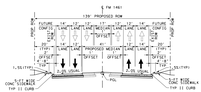
FM 1461 EXISTING TYPICAL SECTION
PFPCL STA 1637+00.00 TO 1749+00.00
PLPCL STA 106+00.00 TO 159+00.00

NOTES

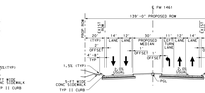
1. EXISTING FEATURES WERE NOT FIELD SURVEYED; SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2014 AND RECORD PLANS; UPDATED IMAGES RECEIVED FEBRUARY 2018.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED DURING THE DESIGN PHASE OF THE PROJECT IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON FEMA FIRM MAPS 48085C0215J, 48397C0040J, 48085C0040J, 48085C0045J, AND 48085C0045J.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING FINAL SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING THE DESIGN PHASE OF THE PROJECT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING FOOTPRINT.
11. CURVE AND TYPE 11 (8") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

LEGEND

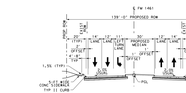
- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- PFPCL (1) CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOW LINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION



FM 1461 PROPOSED TYPICAL SECTION
PFPCL STA 107+75.00 TO 108+00.00
PFPCL STA 139+00.00 TO 139+75.00
PFPCL STA 140+25.00 TO 144+50.00
PFPCL STA 171+25.00 TO 179+25.00
PFPCL STA 183+00.00 TO 184+00.00
PFPCL STA 204+50.00 TO 209+00.00
PFPCL STA 225+25.00 TO 227+75.00
PFPCL STA 232+00.00 TO 233+00.00
PFPCL STA 244+00.00 TO 251+00.00
PFPCL STA 275+25.00 TO 278+75.00
PFPCL STA 281+00.00 TO 282+00.00
PFPCL STA 302+50.00 TO 311+50.00
PFPCL STA 313+50.00 TO 316+75.00
PFPCL STA 331+00.00 TO 334+00.00
PFPCL STA 360+00.00 TO 360+50.00
PFPCL STA 370+75.00 TO 388+00.00
PFPCL STA 408+00.00 TO 410+00.00
PFPCL STA 412+25.00 TO 413+00.00

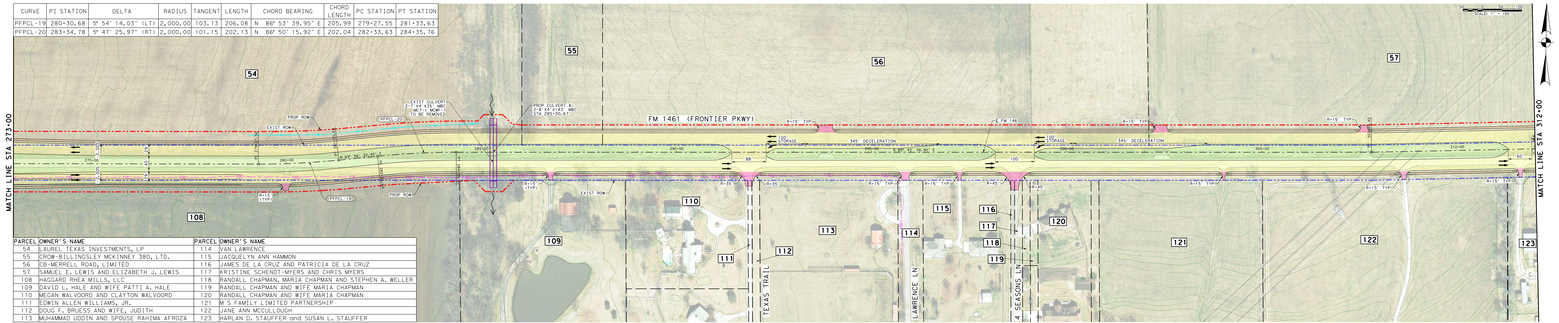


FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE
PFPCL STA 108+50.00 TO 107+25.00
PFPCL STA 110+00.00 TO 113+00.00
PFPCL STA 115+00.00 TO 116+00.00
PFPCL STA 118+00.00 TO 119+00.00
PFPCL STA 161+50.00 TO 166+25.00
PFPCL STA 176+00.00 TO 177+00.00
PFPCL STA 227+75.00 TO 233+00.00
PFPCL STA 239+75.00 TO 243+00.00
PFPCL STA 253+00.00 TO 257+75.00
PFPCL STA 281+00.00 TO 291+75.00
PFPCL STA 296+25.00 TO 298+50.00
PFPCL STA 309+00.00 TO 310+00.00
PFPCL STA 314+00.00 TO 331+50.00
PFPCL STA 360+00.00 TO 361+00.00
PFPCL STA 388+00.00 TO 408+00.00
PFPCL STA 410+75.00 TO 412+00.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE
PFPCL STA 107+25.00 TO 110+00.00
PFPCL STA 113+00.00 TO 115+00.00
PFPCL STA 116+00.00 TO 136+75.00
PFPCL STA 139+00.00 TO 161+50.00
PFPCL STA 166+25.00 TO 214+00.00
PFPCL STA 216+00.00 TO 227+75.00
PFPCL STA 256+00.00 TO 257+50.00
PFPCL STA 291+75.00 TO 296+25.00
PFPCL STA 298+50.00 TO 309+00.00
PFPCL STA 311+50.00 TO 314+00.00
PFPCL STA 331+50.00 TO 360+00.00
PFPCL STA 361+00.00 TO 388+00.00
PFPCL STA 393+00.00 TO 397+75.00
PFPCL STA 407+50.00 TO 410+00.00

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-19	280+30.68	5° 54' 14.03" (LT)	2,000.00	103.13	206.08	N 86° 53' 39.95" E	205.99	279+27.55	281+33.63
PFPCL-20	283+34.78	5° 47' 25.97" (RT)	2,000.00	101.15	202.13	N 86° 50' 15.92" E	202.04	282+33.63	284+35.76


MATCH LINE STA 273+00
MATCH LINE STA 312+00
54
55
56
57
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
FM 1461 (FRONTIER PKWY)
EXIST ROW
PROP ROW
PROP PGL
EXIST PGL
PROP CULVERT BY OTHERS STA 280+30.67
EXIST 5.0X HEART CULVERT BY OTHERS STA 280+30.67
PROP. CONC. SIDEWALK
PROP. CONC. SIDEWALK
PROP. CONC. SIDEWALK

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
TBPE REGISTRATION NO 984

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TANTER	105733	6/29/2018
NAME	P.E. NO.	DATE

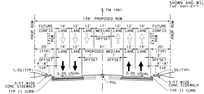
ROLL 7 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



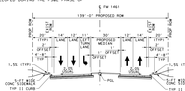
FM 1461 EXISTING TYPICAL SECTION

PFPCL STA 167+00.00 TO 414+90.00
PLPCL STA 106+00.00 TO 159+00.00



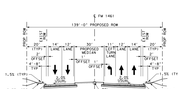
FM 1461 PROPOSED TYPICAL SECTION

PFPCL STA 101+76.00 TO 108+00.00
PFPCL STA 111+76.00 TO 126+75.00
PFPCL STA 140+25.00 TO 144+50.00
PFPCL STA 147+00.00 TO 149+00.00
PFPCL STA 184+25.00 TO 187+50.00
PFPCL STA 204+50.00 TO 209+00.00
PFPCL STA 227+50.00 TO 231+50.00
PFPCL STA 236+50.00 TO 237+50.00
PFPCL STA 248+50.00 TO 251+50.00
PFPCL STA 272+50.00 TO 277+50.00
PFPCL STA 286+75.00 TO 298+50.00
PFPCL STA 303+50.00 TO 311+50.00
PFPCL STA 321+50.00 TO 324+50.00
PFPCL STA 334+50.00 TO 336+25.00
PFPCL STA 357+50.00 TO 360+00.00
PFPCL STA 365+50.00 TO 367+50.00
PFPCL STA 387+75.00 TO 407+50.00
PFPCL STA 412+25.00 TO 413+60.00



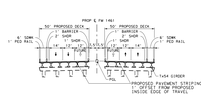
FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE

PFPCL STA 101+25.00 TO 110+00.00
PFPCL STA 113+00.00 TO 126+00.00
PFPCL STA 133+75.00 TO 136+00.00
PFPCL STA 150+75.00 TO 156+00.00
PFPCL STA 178+00.00 TO 184+00.00
PFPCL STA 214+00.00 TO 214+50.00
PFPCL STA 237+50.00 TO 239+75.00
PFPCL STA 253+00.00 TO 256+00.00
PFPCL STA 279+75.00 TO 286+75.00
PFPCL STA 298+50.00 TO 303+50.00
PFPCL STA 311+50.00 TO 321+50.00
PFPCL STA 335+75.00 TO 339+75.00
PFPCL STA 360+00.00 TO 370+75.00
PFPCL STA 382+50.00 TO 387+75.00
PFPCL STA 407+50.00 TO 412+25.00



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE

PFPCL STA 110+00.00 TO 113+00.00
PFPCL STA 126+00.00 TO 133+75.00
PFPCL STA 136+00.00 TO 140+25.00
PFPCL STA 144+50.00 TO 147+00.00
PFPCL STA 156+00.00 TO 158+75.00
PFPCL STA 159+50.00 TO 204+50.00
PFPCL STA 209+00.00 TO 214+00.00
PFPCL STA 231+50.00 TO 236+00.00
PFPCL STA 239+75.00 TO 248+50.00
PFPCL STA 256+00.00 TO 264+75.00
PFPCL STA 329+50.00 TO 334+25.00
PFPCL STA 339+75.00 TO 357+50.00
PFPCL STA 360+00.00 TO 365+50.00
PFPCL STA 370+75.00 TO 382+50.00
PFPCL STA 412+25.00 TO 407+50.00



FM 1461 PROPOSED TYPICAL BRIDGE SECTION
AT STOVER CREEK

PFPCL STA 319+10.00 TO 324+10.00

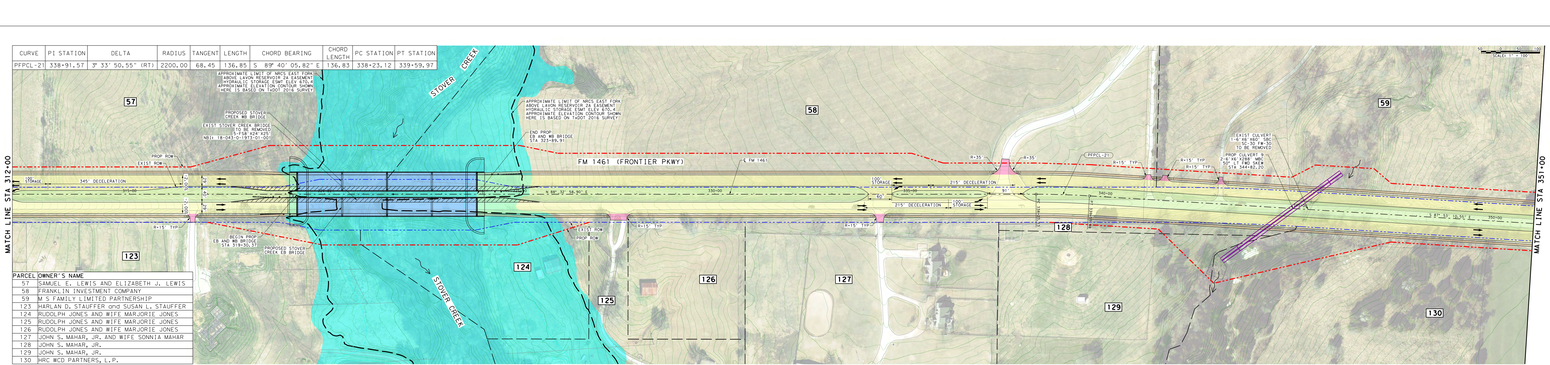
NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2015 AND RECORD PLANS. UPDATED IMAGES RECEIVED FEBRUARY 2018.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED DURING THE DESIGN PHASE OF THE PROJECT IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON COLLIN COUNTY FLOODPLAIN MAPS, HYDROLOGY AND HYDRAULICS, AND HYDROLOGICAL.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT RECORDS.
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ALL RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING FINAL SIDEWALKS ARE SHOWN AS TYPICAL SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING THE DESIGN PHASE OF THE PROJECT THAT THE DRIVEWAY IS LOCATED OUTSIDE OF THE LIMITS OF WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW POTENTIALLY INTERSECTS THE EXISTING BUILDING FOOTPRINT.
11. CURBS ARE TYPE II (6") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN BUT WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOW LINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-21	338+91.57	3° 33' 50.55" (RT)	2200.00	68.45	136.85	S 89° 40' 05.82" E	136.83	338+23.12	339+59.97


MATCH LINE STA 312+00
MATCH LINE STA 351+00
STOVER CREEK
FM 1461 (FRONTIER PKWY)
57
58
59
123
124
125
126
127
128
129
130
PROP ROW
EXIST ROW
PROPOSED STOVER CREEK BRIDGE
PROPOSED EB & WB BRIDGES CHECK EB BRIDGE
EXISTING STOVER CREEK BRIDGE TO BE REMOVED
NOTE: EB (LOW) = 517.5'; WB (HIGH) = 522.5'
APPROXIMATE LIMIT OF WICS EAST FORK HYDROLOGIC STORAGE (TMP ELEV 515.4') APPROXIMATE ELEVATION CONTOUR SHOWN HERE IS BASED ON 10FT DSM SURFACE
END PROP EB AND WB BRIDGE TIE TO 523+96.91
APPROXIMATE LIMIT OF WICS EAST FORK HYDROLOGIC STORAGE (TMP ELEV 515.4') APPROXIMATE ELEVATION CONTOUR SHOWN HERE IS BASED ON 10FT DSM SURFACE
EXIST CULVERT TO BE REMOVED
EXIST CULVERT TO BE REMOVED
PROP CULVERT A 4-8'x6' RCB STA 349+41.00
PROP CULVERT B 3-8'x6' RCB STA 349+82.00
EXIST CULVERT TO BE REMOVED
PROP CULVERT C 3-8'x6' RCB STA 350+23.00
4:1 SLOPE
3:1 SLOPE
2:1 SLOPE
4:1 SLOPE
3:1 SLOPE
2:1 SLOPE
0.5% MIN
0.5% MIN
0.5% MIN

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TEXAS REGISTERED ENGINEERING FIRM F-3727
TEXAS REGISTERED SURVEYING FIRM LS-100164

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ: 1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ: 1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

AARON TANTER	105733	6/29/2018
NAME	P.E. NO.	DATE

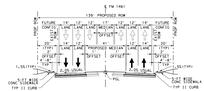
ROLL 8 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



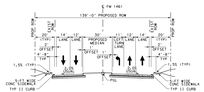
FM 1461 EXISTING TYPICAL SECTION

PFPCL STA 158+00.00 TO 418+00.00
PLPCL STA 158+00.00 TO 158+00.00



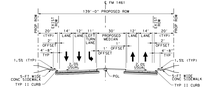
FM 1461 PROPOSED TYPICAL SECTION

PFPCL STA 157+75.00 TO 158+00.00
PFPCL STA 158+00.00 TO 160+75.00
PFPCL STA 160+75.00 TO 164+50.00
PFPCL STA 164+50.00 TO 170+25.00
PFPCL STA 170+25.00 TO 183+75.00
PFPCL STA 183+75.00 TO 204+50.00
PFPCL STA 204+50.00 TO 209+00.00
PFPCL STA 209+00.00 TO 228+50.00
PFPCL STA 228+50.00 TO 237+50.00
PFPCL STA 237+50.00 TO 251+00.00
PFPCL STA 251+00.00 TO 286+75.00
PFPCL STA 286+75.00 TO 298+50.00
PFPCL STA 303+50.00 TO 311+50.00
PFPCL STA 311+50.00 TO 324+00.00
PFPCL STA 324+00.00 TO 334+75.00
PFPCL STA 337+50.00 TO 360+00.00
PFPCL STA 360+00.00 TO 387+50.00
PFPCL STA 387+50.00 TO 407+50.00
PFPCL STA 412+25.00 TO 413+60.00



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE

PFPCL STA 154+50.00 TO 157+25.00
PFPCL STA 157+25.00 TO 157+75.00
PFPCL STA 158+00.00 TO 164+00.00
PFPCL STA 164+00.00 TO 169+00.00
PFPCL STA 169+00.00 TO 204+50.00
PFPCL STA 204+50.00 TO 209+00.00
PFPCL STA 209+00.00 TO 231+75.00
PFPCL STA 231+75.00 TO 237+50.00
PFPCL STA 237+50.00 TO 251+00.00
PFPCL STA 251+00.00 TO 281+00.00
PFPCL STA 281+00.00 TO 291+75.00
PFPCL STA 291+75.00 TO 311+50.00
PFPCL STA 311+50.00 TO 334+75.00
PFPCL STA 335+75.00 TO 337+50.00
PFPCL STA 337+50.00 TO 360+00.00
PFPCL STA 360+00.00 TO 387+50.00
PFPCL STA 402+70.00 TO 407+50.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE

PFPCL STA 157+25.00 TO 157+75.00
PFPCL STA 157+75.00 TO 158+00.00
PFPCL STA 158+00.00 TO 160+75.00
PFPCL STA 160+75.00 TO 164+00.00
PFPCL STA 164+00.00 TO 169+00.00
PFPCL STA 169+00.00 TO 214+00.00
PFPCL STA 237+50.00 TO 239+75.00
PFPCL STA 239+75.00 TO 251+00.00
PFPCL STA 251+00.00 TO 286+75.00
PFPCL STA 286+75.00 TO 304+50.00
PFPCL STA 304+50.00 TO 311+50.00
PFPCL STA 311+50.00 TO 324+00.00
PFPCL STA 324+00.00 TO 334+75.00
PFPCL STA 337+50.00 TO 360+00.00
PFPCL STA 360+00.00 TO 397+75.00
PFPCL STA 407+50.00 TO 413+00.00

NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED, SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2014 AND RECORD PLANS, UPDATED IMAGES RECEIVED FEBRUARY 2018.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED DURING THE DESIGN PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL WIDTH OF CURB, RAILS, BARRIERS, OR MSE, UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAPS #48085C0510J, 48085C0515J, AND 48085C0530J.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018.
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING FINAL SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING THE DESIGN PHASE OF THE PROJECT THAT THE DRIVEWAY IS A SAFETY HAZARD OR LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN ARE POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING FOOTPRINT.
11. CURVES ARE TYPE II (8") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

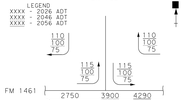
LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- PFPCL 1 — CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

TRAFFIC DIAGRAM

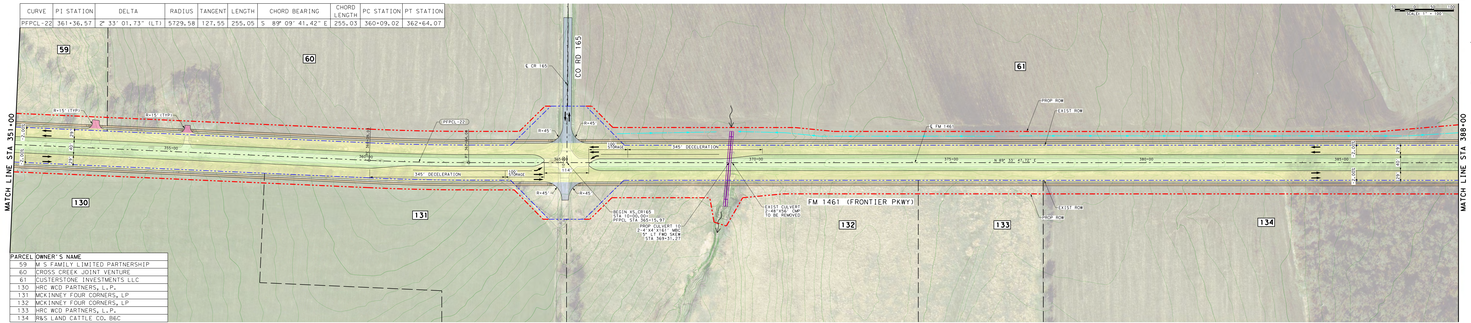
CR 165

LEGEND
XXXX - 2026 ADT
XXXX - 2046 ADT
XXXX - 2056 ADT

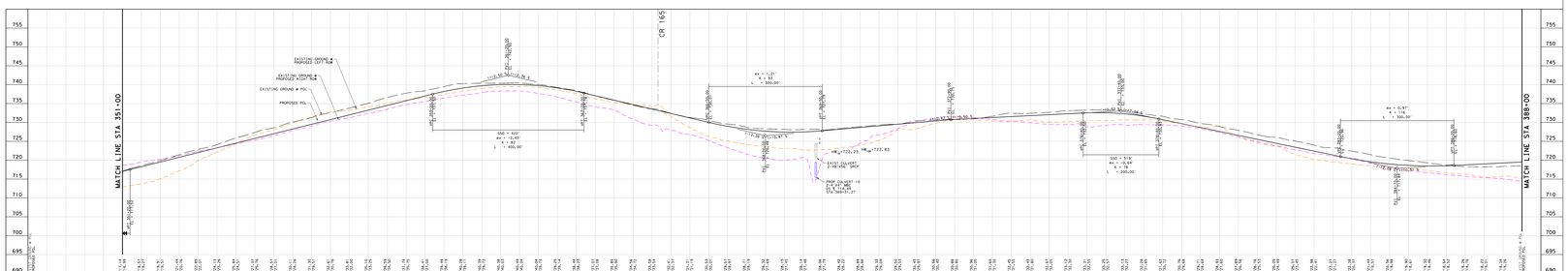


TEXAS DEPT OF TRANSPORTATION
PLANNING AND PROGRAMMING DIVISION,
JULY 28, 2017

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPCL-22	361+36.57	2° 33' 01.73" (LT)	5729.58	127.55	255.05	S 89° 09' 41.42" E	255.03	360+09.02	362+64.07



PARCEL	OWNER'S NAME
59	M S FAMILY, LIMITED PARTNERSHIP
60	CROSS CREEK JOINT VENTURE
61	CUSTERSTONE INVESTMENTS LLC
130	HRC WCD PARTNERS, L.P.
131	MCKINNEY FOUR CORNERS, LP
132	MCKINNEY FOUR CORNERS, LP
133	HRC WCD PARTNERS, L.P.
134	P&S LAND CATTLE CO, B&C


MATCH LINE STA 351+00
MATCH LINE STA 388+00
CR 165
EXISTING GROUND
PROPOSED RIGHT ROW
EXISTING GROUND
PROPOSED LEFT ROW
EXISTING GROUND @ PGL
PROPOSED PGL
PROPOSED GRADE
EXISTING GROUND
PROPOSED GRADE
EXISTING GROUND
PROPOSED GRADE
EXISTING GROUND

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
TBPE REGISTRATION NO 284

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

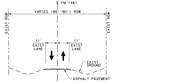
APPROVED SCHEMATIC JUNE 29, 2018

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

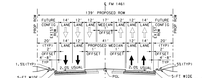
NAME	P.E. NO.	DATE
AARON TANTER	105733	6/29/2018

ROLL 9 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

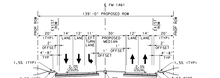


FM 1461 EXISTING TYPICAL SECTION



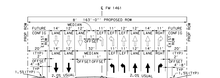
FM 1461 PROPOSED TYPICAL SECTION

PPFCL STA 101+75.00 TO 108+00.00
PPFCL STA 117+75.00 TO 126+75.00
PPFCL STA 131+75.00 TO 139+75.00
PPFCL STA 171+50.00 TO 179+75.00
PPFCL STA 189+25.00 TO 197+00.00
PPFCL STA 205+00.00 TO 213+75.00
PPFCL STA 229+25.00 TO 237+75.00
PPFCL STA 278+50.00 TO 287+50.00
PPFCL STA 295+00.00 TO 303+50.00
PPFCL STA 310+75.00 TO 318+75.00
PPFCL STA 386+75.00 TO 398+50.00
PPFCL STA 414+00.00 TO 417+40.35
PPFCL STA 534+15.00 TO 534+75.00
PPFCL STA 544+00.00 TO 544+75.00
PPFCL STA 550+25.00 TO 558+00.00
PPFCL STA 597+75.00 TO 607+50.00
PPFCL STA 612+25.00 TO 613+40.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE

PPFCL STA 107+25.00 TO 110+00.00
PPFCL STA 124+00.00 TO 126+75.00
PPFCL STA 131+75.00 TO 134+00.00
PPFCL STA 150+75.00 TO 156+00.00
PPFCL STA 164+00.00 TO 166+75.00
PPFCL STA 228+00.00 TO 231+00.00
PPFCL STA 237+50.00 TO 239+75.00
PPFCL STA 252+00.00 TO 254+75.00
PPFCL STA 278+75.00 TO 280+75.00
PPFCL STA 298+50.00 TO 300+50.00
PPFCL STA 312+50.00 TO 314+75.00
PPFCL STA 381+50.00 TO 385+75.00
PPFCL STA 389+50.00 TO 391+75.00
PPFCL STA 407+50.00 TO 413+00.00



FM 1461 PROPOSED TYPICAL SECTION
AT LAUD HOWELL INTERSECTION

PPFCL STA 413+00.00 TO 418+00.00
PLFCL STA 147+25.00 TO 156+00.00

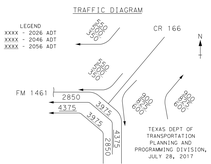
NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED; SCHEMATICS ARE BASED ON SURVEY INFORMATION DATED JANUARY 2014 AND RECORD PLANS; UPDATED IMAGES RECEIVED FEBRUARY 2018.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED DURING THE PS&E PHASE OF THE PROJECT IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POS.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON FEMA FIRM MAPS 48085C0215J, MAPS 48085C0210J, 48085C0205J, AND 48085C0200J.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND MAY BE ADJUSTED DURING PS&E. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING THE PS&E PHASE OF THE PROJECT THAT THE DRIVEWAY ETA SURFACE ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING FOOTPRINT.
11. CURBS ARE TYPE II (6") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

LEGEND

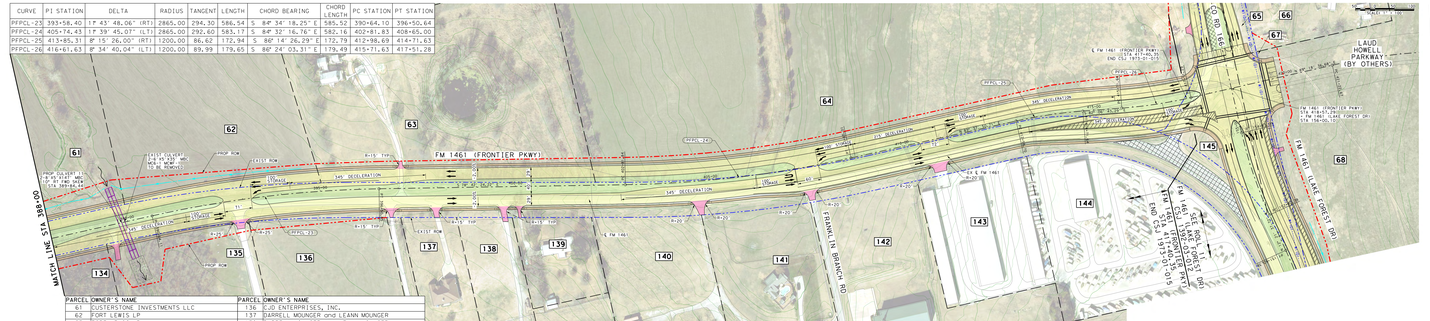
- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- PPFCL 1 — CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

TRAFFIC DIAGRAM

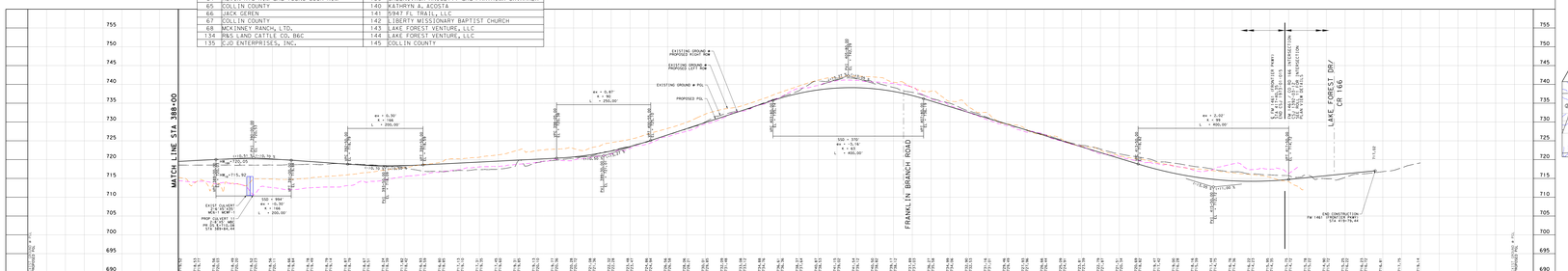


TEXAS DEPT OF TRANSPORTATION
PLANNING AND
PROGRAMMING DIVISION,
JULY 28, 2017

CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PFPLC-23	393+58.40	1° 43' 48.06" (RT)	2865.00	294.30	586.54	S 84° 34' 18.25" E	585.52	390+64.10	396+50.64
PFPLC-24	405+74.43	1° 39' 45.07" (LT)	2865.00	292.60	583.17	S 84° 32' 16.76" E	582.16	402+81.85	408+65.00
PFPLC-25	413+85.31	8° 15' 26.00" (RT)	1200.00	86.62	172.94	S 80° 14' 26.29" E	172.79	412+98.69	414+71.63
PFPLC-26	416+61.63	8° 34' 40.04" (LT)	1200.00	89.99	179.65	S 80° 24' 03.31" E	179.49	415+71.63	417+51.28



PARCEL	OWNER'S NAME	PARCEL	OWNER'S NAME
61	CORNERSTONE INVESTMENTS LLC	136	CJD ENTERPRISES, INC.
62	FORT LEWIS LP	137	DARRELL MOUNGER and LEANN MOUNGER
63	FORT LEWIS LP	138	DARRELL MOUNGER and LEANN MOUNGER
64	KEVIN KYU KIM and YOUNG SOOK KIM	139	SREENIVASA ANISETTY and PRATHIMA SAVARALA
65	COLLIN COUNTY	140	KATHRYN A. ACOSTA
66	LACK GEREN	141	5947 FL TRAIL, LLC
67	COLLIN COUNTY	142	LIBERTY MISSIONARY BAPTIST CHURCH
68	MCKINNEY RANCH, LTD.	143	LAKE FOREST VENTURE, LLC
134	R&S LAND CATTLE CO, B&C	144	LAKE FOREST VENTURE, LLC
135	CJD ENTERPRISES, INC.	145	COLLIN COUNTY



Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

NAME	P.E. NO.	DATE
AARON TANTER	105733	6/29/2018

ROLL 9 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
TBPE FIRM REGISTRATION NO 964

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

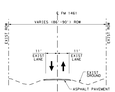
APPROVED SCHEMATIC JUNE 29, 2018

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

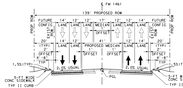
AARON TANTER	105733	6/29/2018
NAME	P.E. NO.	DATE

ROLL 10 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



FM 1461 EXISTING TYPICAL SECTION


FM 1461
130'-0" PROPOSED ROW
EXISTING ROW
PROPOSED MEDIAN
PROPOSED ROW
EXISTING ROW
PROPOSED ROW
EXISTING ROW
PROPOSED ROW
EXISTING ROW

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS
TBPE FIRM REGISTRATION NO 984

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

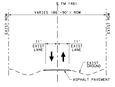
APPROVED SCHEMATIC JUNE 29, 2018

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

NAME	P.E. NO.	DATE
AARON TANTER	105733	6/29/2018

ROLL 11 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED



FM 1461 EXISTING TYPICAL SECTION



FM 1461 PROPOSED TYPICAL SECTION

PFCL STA 101+75.00 TO 108+00.00
PFCL STA 117+75.00 TO 126+75.00
PFCL STA 135+00.00 TO 139+75.00
PFCL STA 149+25.00 TO 151+60.38
PFCL STA 189+25.00 TO 191+00.00
PFCL STA 205+00.00 TO 207+75.00
PFCL STA 221+75.00 TO 227+75.00
PFCL STA 238+50.00 TO 237+50.00
PFCL STA 253+00.00 TO 254+00.00
PFCL STA 270+00.00 TO 274+75.00
PFCL STA 286+75.00 TO 288+50.00
PFCL STA 302+75.00 TO 304+50.00
PFCL STA 319+00.00 TO 321+75.00
PFCL STA 337+50.00 TO 360+00.00
PFCL STA 353+50.00 TO 369+00.00
PFCL STA 369+75.00 TO 397+50.00
PFCL STA 412+25.00 TO 413+60.00

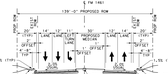
PFCL STA 110+00.00 TO 112+75.00
PFCL STA 111+25.00 TO 123+25.00
PFCL STA 124+50.00 TO 134+75.00



FM 1461 PROPOSED TYPICAL SECTION
EASTBOUND LEFT TURN/U-TURN LANE

PFCL STA 104+50.00 TO 107+25.00
PFCL STA 120+00.00 TO 122+75.00
PFCL STA 136+00.00 TO 140+25.00
PFCL STA 154+00.00 TO 156+25.00
PFCL STA 169+75.00 TO 184+25.00
PFCL STA 203+75.00 TO 205+00.00
PFCL STA 221+75.00 TO 223+00.00
PFCL STA 237+75.00 TO 239+75.00
PFCL STA 254+00.00 TO 256+00.00
PFCL STA 287+50.00 TO 291+75.00
PFCL STA 303+75.00 TO 307+50.00
PFCL STA 320+00.00 TO 323+00.00
PFCL STA 335+75.00 TO 337+50.00
PFCL STA 353+00.00 TO 355+00.00
PFCL STA 368+00.00 TO 393+50.00
PFCL STA 402+70.00 TO 407+50.00

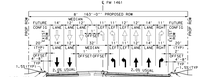
PFCL STA 123+25.00 TO 128+50.00
PFCL STA 135+25.00 TO 139+00.00
PFCL STA 141+75.00 TO 149+25.00



FM 1461 PROPOSED TYPICAL SECTION
WESTBOUND LEFT TURN/U-TURN LANE

PFCL STA 107+25.00 TO 110+00.00
PFCL STA 123+25.00 TO 124+50.00
PFCL STA 137+75.00 TO 136+50.00
PFCL STA 150+75.00 TO 154+00.00
PFCL STA 186+25.00 TO 169+75.00
PFCL STA 208+00.00 TO 214+00.00
PFCL STA 237+50.00 TO 239+75.00
PFCL STA 256+00.00 TO 254+00.00
PFCL STA 281+75.00 TO 286+75.00
PFCL STA 298+50.00 TO 303+50.00
PFCL STA 314+25.00 TO 320+00.00
PFCL STA 334+25.00 TO 335+75.00
PFCL STA 350+00.00 TO 353+00.00
PFCL STA 383+00.00 TO 397+75.00
PFCL STA 407+50.00 TO 413+00.00

PFCL STA 112+25.00 TO 117+25.00
PFCL STA 128+50.00 TO 135+25.00
PFCL STA 139+00.00 TO 143+75.00



FM 1461 PROPOSED TYPICAL SECTION
AT LAUD HOWELL INTERSECTION

PFCL STA 413+00.00 TO 418+00.00

PFCL STA 169+25.00 TO 156+00.00

NOTES

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATIC ARE BASED ON SURVEY INFORMATION DATED JANUARY 2016 AND RECORD PLANS. UPDATED IMAGES RECEIVED FEBRUARY 2016.
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED DURING THE DESIGN PHASE OF THE PROJECT IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL CURB LINE (FACE), BARRIERS, OR WALL UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAPS REVISED/DATED: 06/05/2014, AND 04/18/2011.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT MARCH 2018.
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS.
8. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND ARE NOT SURVEYED DURING FINAL. SIDEWALKS ARE SHOWN ON TYPICAL SECTIONS.
9. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING THE DESIGN PHASE OF THE PROJECT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
10. BUILDINGS ARE SHOWN AS POTENTIAL ROW ADJACENT IF THEY EXTEND NOW PHYSICALLY INTERSECTS THE EXISTING AND PROPOSED ROW.
11. CURBS ARE TYPE 11 (8") UNLESS NOTED OTHERWISE.
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

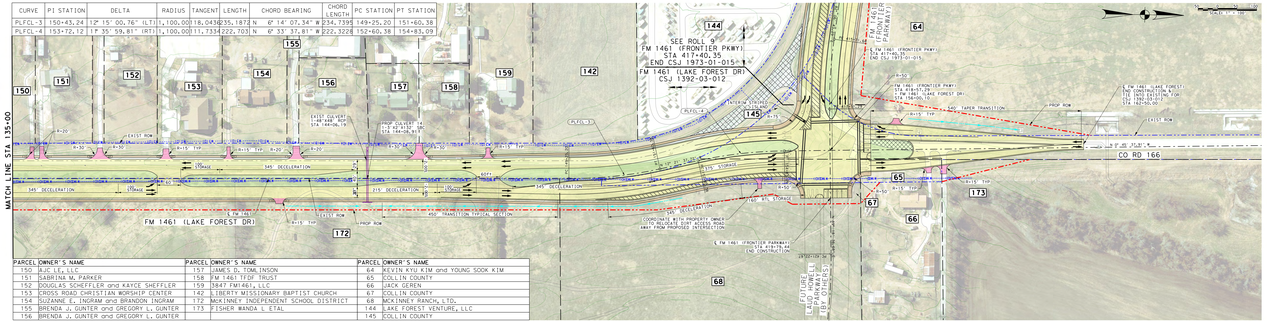
LEGEND

- DIRECTION OF TRAFFIC
- WATER FLOW LINE
- CURVE NUMBER
- PROPOSED CENTERLINE
- EXISTING CENTERLINE
- PROPOSED PAVING/SIDEWALK
- PROPOSED BRIDGE DECK
- PROPOSED PAVEMENT
- PROPOSED CROSS STREET
- PROPOSED SIDEWALK
- PROPOSED DRIVEWAY
- PROPOSED MEDIAN
- CONSTRUCTION BY OTHERS
- PROPOSED ROW
- EXISTING ROW
- ROW (OTHER PROJECTS)
- LOT LINES
- EXISTING EASEMENTS
- PROPOSED CULVERT
- DITCH FLOWLINE
- FEMA 100 YEAR FLOODPLAIN
- PAVEMENT REMOVAL
- EROSION PROTECTION

TRAFFIC DIAGRAM

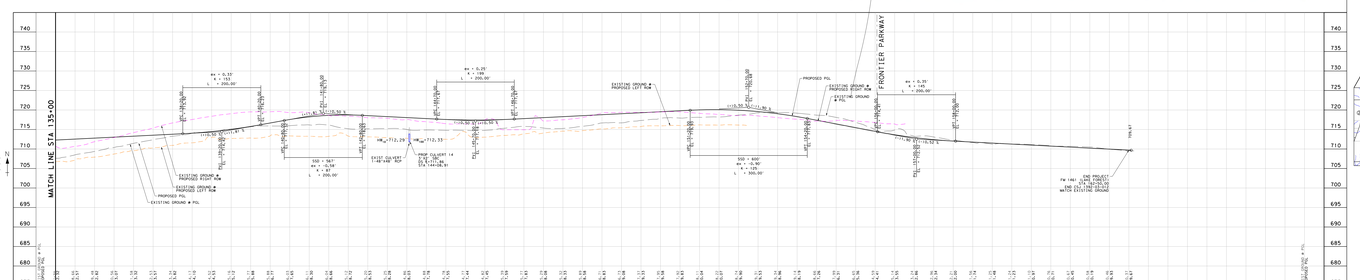


TEXAS DEPT OF TRANSPORTATION
PLANNING AND PROGRAMMING DIVISION,
JULY 28, 2017



CURVE	PI STATION	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	PC STATION	PT STATION
PLFCL-3	150+43.24	12° 15' 00.76" (LT)	1,100.00	118.043	235.187	N 6° 14' 07.34" W	234.739	149+25.20	151+60.38
PLFCL-4	153+72.12	14° 35' 59.81" (RT)	1,100.00	141.733	222.703	N 6° 33' 37.81" W	222.3228	152+60.38	154+83.09

PARCEL	OWNER'S NAME	PARCEL	OWNER'S NAME	PARCEL	OWNER'S NAME
150	BJC LT, LLC	157	JAMES D. TOMLINSON	64	KEVIN KYU KIM and YOUNG SOOK KIM
151	SABRINA M. PARKER	158	FM 1461 TFOF TRUST	65	COLLIN COUNTY
152	DOUGLAS SCHEFFLER and KAYCE SHEFFLER	159	3847 FM1461, LLC	66	JACK GEREN
153	CROSS ROAD CHRISTIAN WORSHIP CENTER	142	LIBERTY MISSIONARY BAPTIST CHURCH	67	COLLIN COUNTY
154	SUZANNE E. INGRAM and BRANDON INGRAM	172	MCKINNEY INDEPENDENT SCHOOL DISTRICT	68	MCKINNEY RANCH, LTD.
155	BRENDA J. GUNTER and GREGORY L. GUNTER	173	FISHER WANDA L ETAL	144	LAKE FOREST VENTURE, LLC
156	BRENDA J. GUNTER and GREGORY L. GUNTER			145	COLLIN COUNTY



Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
TRANSPORTATION ENGINEERS

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

NAME	P.E. NO.	DATE
AARON TANTER	105733	6/29/2018

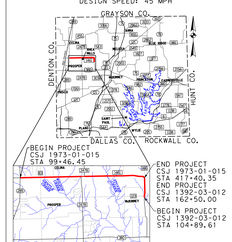
ROLL 11 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

Texas Department of Transportation

BRIDGEFARMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
TBPE REGISTRATION NO 984

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
COLLIN COUNTY
FM 1461
CSJ#:1973-01-015 FM 1461 (FRONTIER PKWY)
FROM SH 289 (PRESTON RD) TO CO RD 166
LENGTH 6.02 MILES (31,793.90 FT)
CSJ#:1392-03-012 FM 1461 (LAKE FOREST DR)
FROM CO RD 123 TO CO RD 166
LENGTH 1.09 MILES (5,760.40 FT)
PROJECT LENGTH = 7.10 MILES (37,554.30 FT.)
FUNCTIONAL CLASS: URBAN COLLECTOR
DESIGN SPEED: 45 MPH



LOCATION MAP
(N.T.S.)

APPROVED SCHEMATIC JUNE 29, 2018

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

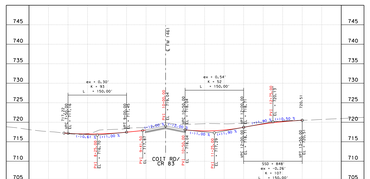
AARON TANTER	105733	6/29/2018
NAME	P.E. NO.	DATE

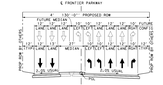
ROLL 12 OF 12

© 2018 BY TEXAS DEPARTMENT OF TRANSPORTATION
ALL RIGHTS RESERVED

CROSS STREET PROFILES AND TYPICAL SECTIONS

ALL CROSS STREET TIE-INS ARE DESIGNED FOR 30 MPH DESIGN SPEED




E FRONTIER PARKWAY
PROP. 6" CONC. MEDIAN
PROP. 6" CONC. CURB
PROP. 8" CONC. PAVEMENT
PROP. 10" CONC. PAVEMENT