Texas Department of Transportation
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DALLAS DISTRICT
CEASON G CLEMENS, P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC
FM 6
COLLIN COUNTY

CSJ: 0619-01-027
FROM: SH 78
TO: EAST OF FM 1777
NET LENGTH OF PROJECT = 7.88 MI
ROADWAY = 7.83 MI
BRIDGE = 0.05 MI

DESIGN CRITERIA:

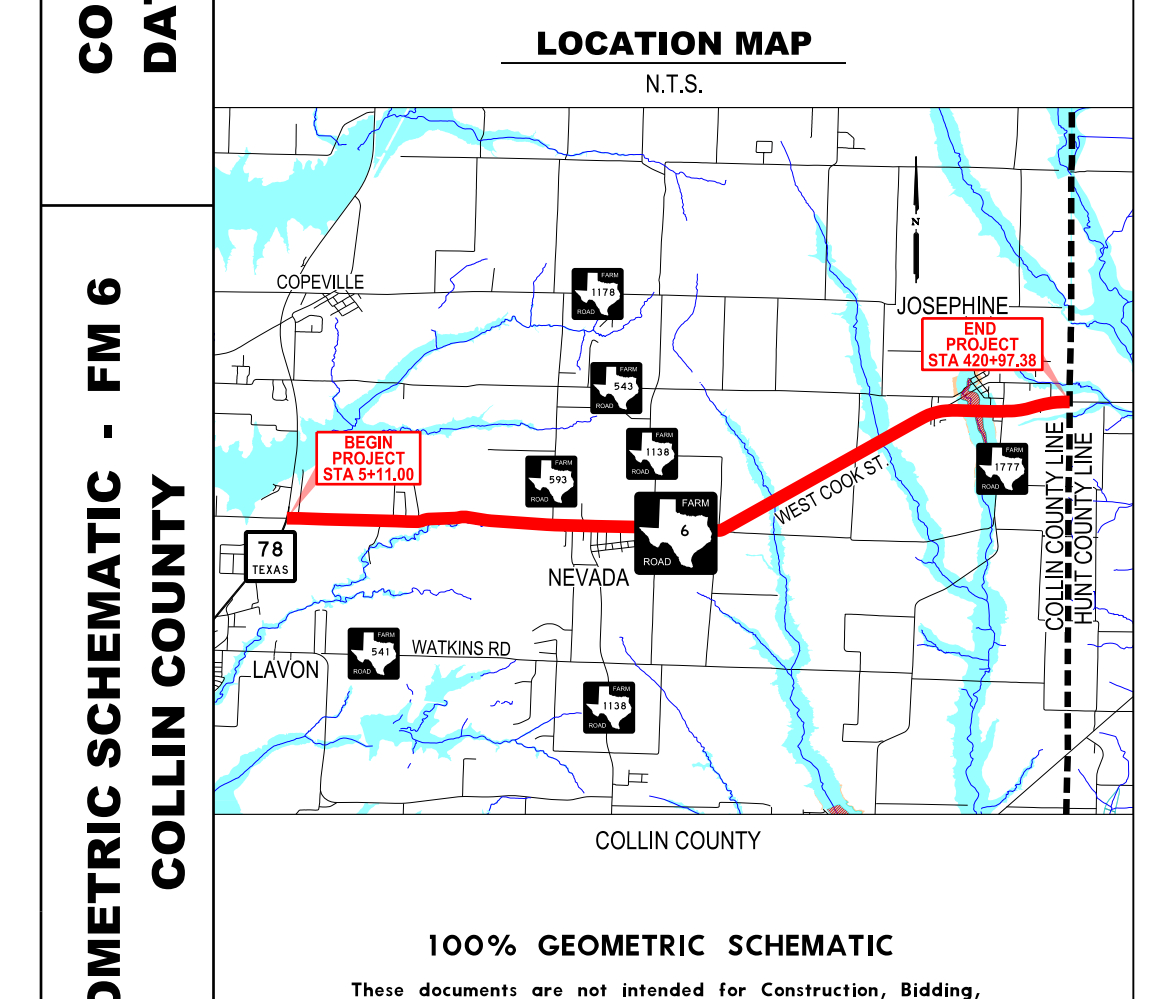
FUNCTIONAL CLASSIFICATION:	URBAN MAJOR COLLECTOR
TERRAIN:	LEVEL
DESIGN SPEED:	45 MPH - URBAN STREET
DESIGN SPEED (CROSS ST):	VARIES 30 MPH TO 55 MPH

ADT (2025) = 12,100
ADT (2045) = 16,550
ADT (2055) = 18,600

COUNTY: COLLIN
DATE: MAY 2023

LOCATION MAP

N.T.S.


COPEVILLE
JOSEPHINE
END PROJECT STA 420+97.38
BEGIN PROJECT STA 5+11.00
78
6
WEST COOK ST
NEVADA
LAVON
WATKINS RD
COLLIN COUNTY LINE
HUNT COUNTY LINE

COLLIN COUNTY

GEOMETRIC SCHEMATIC - FM 6
COLLIN COUNTY

ROLL 3 OF 4

100% GEOMETRIC SCHEMATIC

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PETER G. JACOBS
67725
Peter G. Jacobs
6/21/2023

ROLL INDEX:

ROLL 1:	FM 6 MAINLANES	STA. 4+63.51 TO STA. 112+00
ROLL 2:	FM 6 MAINLANES	STA. 112+00 TO STA. 220+00
ROLL 3:	FM 6 MAINLANES	STA. 220+00 TO STA. 328+00
ROLL 4:	FM 6 MAINLANES	STA. 328+00 TO STA. 420+97.38

HORIZONTAL SCALE
0 50 100 200 300

VERTICAL SCALE
0 5 10 20 30

ROLL 3 OF 4

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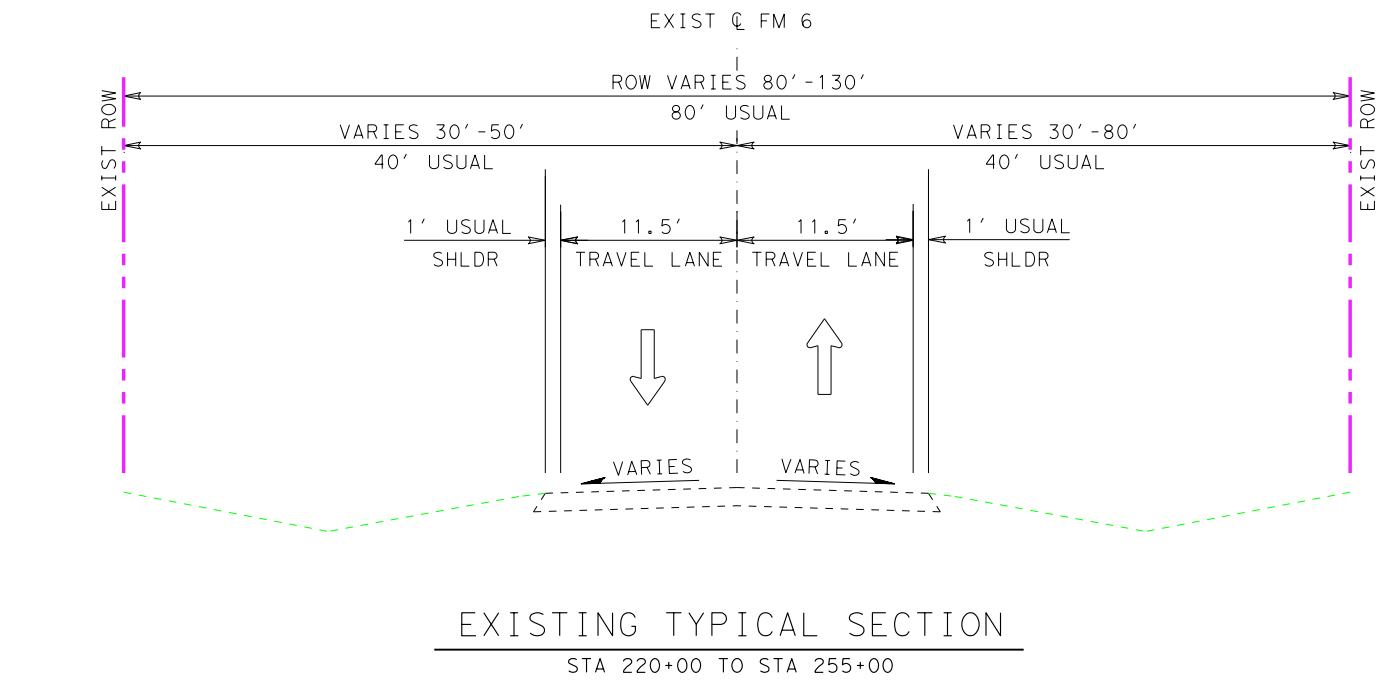
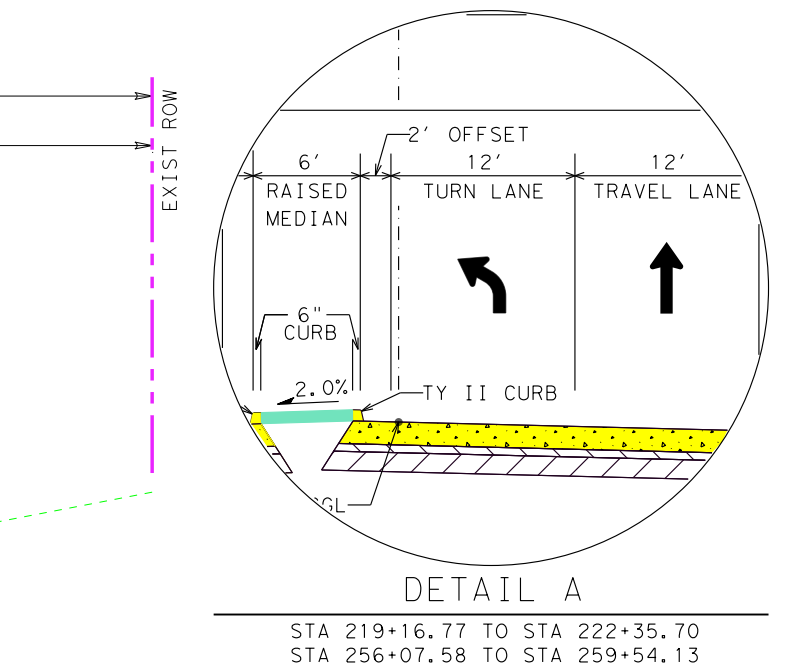
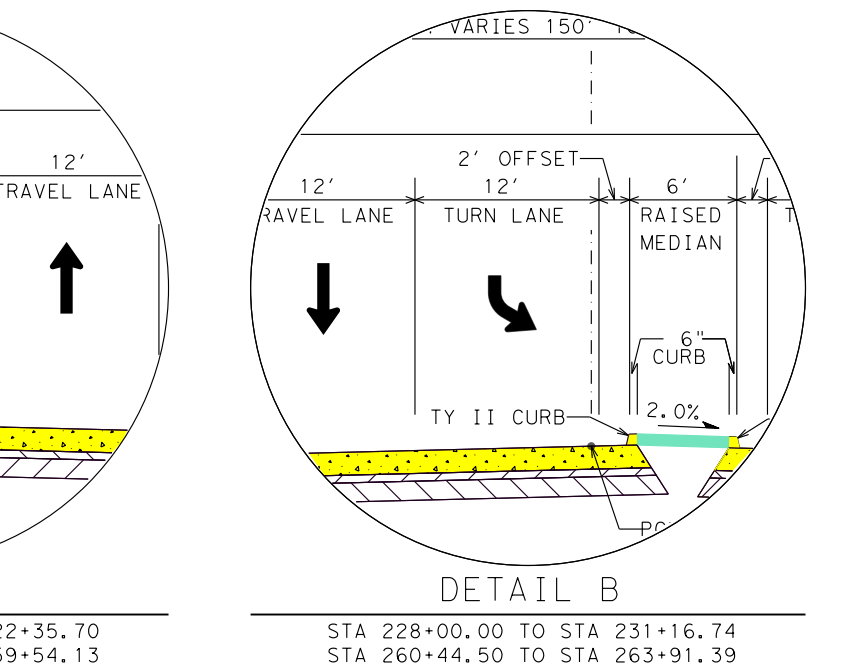

EXIST ℄ FM 6
ROW VARIES 80'-130'
80' USUAL
VARIES 30'-50'
40' USUAL
VARIES 30'-80'
40' USUAL
EXIST ROW
1' USUAL SHLDR
11.5' TRAVEL LANE
11.5' TRAVEL LANE
1' USUAL SHLDR
VARIES
VARIES

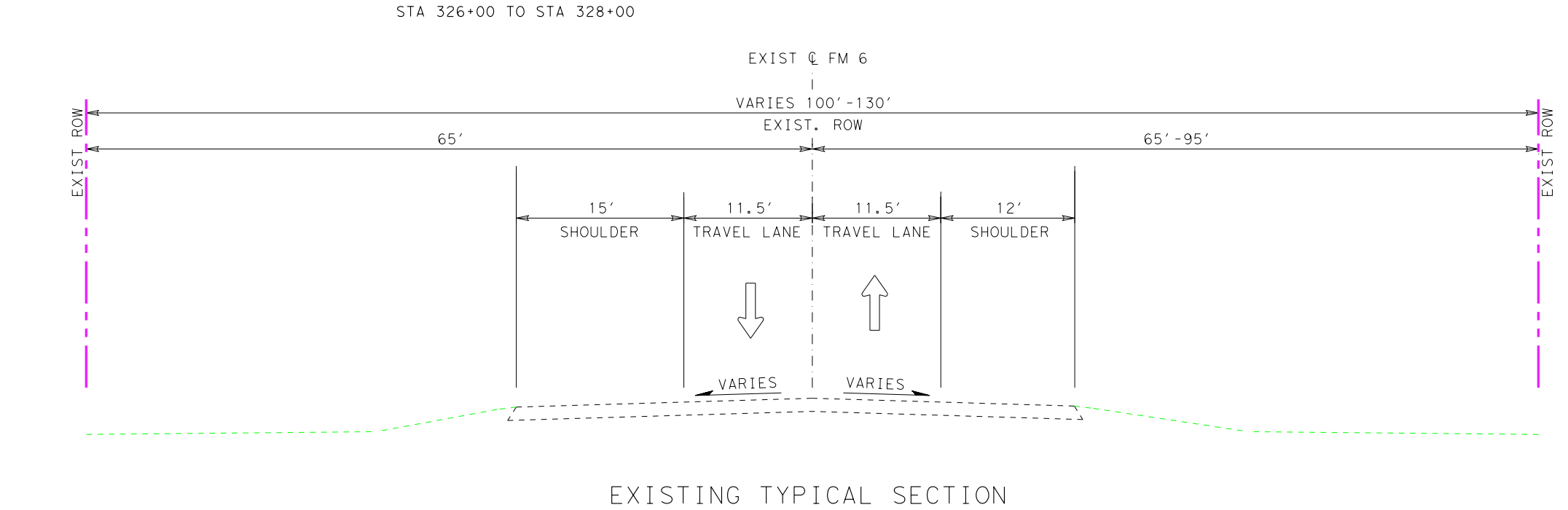
EXISTING TYPICAL SECTION
STA 220+00 TO STA 255+00
STA 258+00 TO STA 315+00
STA 326+00 TO STA 328+00


2' OFFSET
6' RAISED MEDIAN
12' TURN LANE
12' TRAVEL LANE
6" CURB
2.0%
TY II CURB
PGL

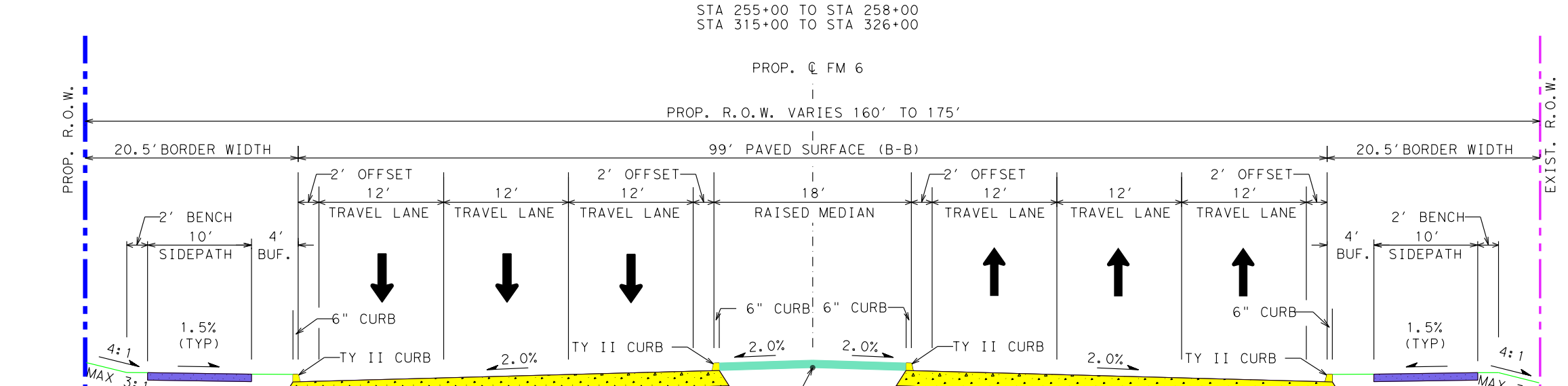
DETAIL A
STA 219+16.77 TO STA 222+35.70
STA 256+07.58 TO STA 259+54.13
STA 301+16.47 TO STA 304+66.47


VARIES 150'
2' OFFSET
12' TRAVEL LANE
12' TURN LANE
6' RAISED MEDIAN
6" CURB
2.0%
TY II CURB
PGL

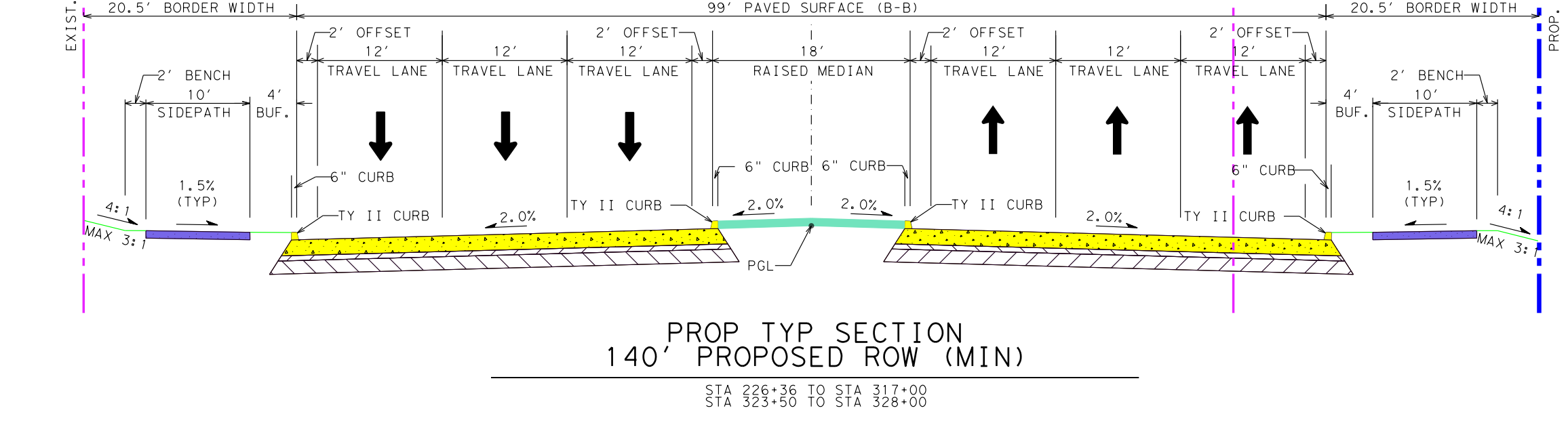
DETAIL B
STA 228+00.00 TO STA 231+16.74
STA 260+44.50 TO STA 263+91.39
STA 305+78.02 TO STA 309+28.02


EXIST ℄ FM 6
VARIES 100'-130'
EXIST. ROW
65'
65'-95'
EXIST ROW
15' SHOULDER
11.5' TRAVEL LANE
11.5' TRAVEL LANE
12' SHOULDER
VARIES
VARIES

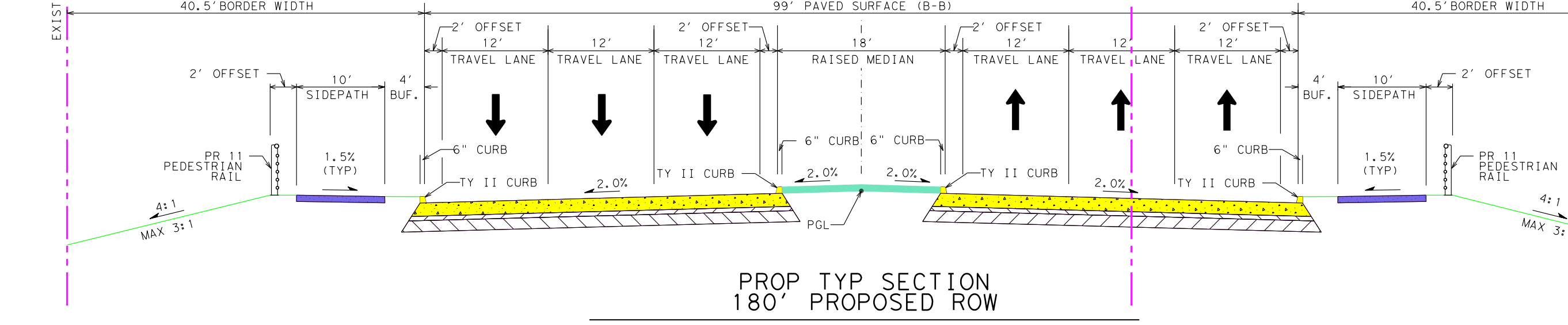
EXISTING TYPICAL SECTION
STA 255+00 TO STA 258+00
STA 315+00 TO STA 326+00


PROP. ℄ FM 6
PROP. R.O.W. VARIES 160' TO 175'
20.5' BORDER WIDTH
99' PAVED SURFACE (B-B)
20.5' BORDER WIDTH
2' OFFSET
12' TRAVEL LANE
12' TRAVEL LANE
12' TRAVEL LANE
18' RAISED MEDIAN
2' BENCH
10' SIDEPATH
4' BUF.
1.5% (TYP)
6" CURB
TY II CURB
2.0%
PGL
4:1
MAX 3:1
PROP. R.O.W.
EXIST. R.O.W.

PROP TYP SECTION
140' PROPOSED ROW (MIN)
STA 220+00 TO STA 226+36


PROP. ℄ FM 6
PROP. R.O.W. VARIES 140' TO 190' (160' USUAL)
VARIES 10'-40'
20.5' BORDER WIDTH
99' PAVED SURFACE (B-B)
20.5' BORDER WIDTH
2' OFFSET
12' TRAVEL LANE
18' RAISED MEDIAN
2' BENCH
10' SIDEPATH
4' BUF.
1.5% (TYP)
6" CURB
TY II CURB
2.0%
PGL
4:1
MAX 3:1
EXIST. R.O.W.
PROP. R.O.W.

PROP TYP SECTION
140' PROPOSED ROW (MIN)
STA 226+36 TO STA 317+00
STA 323+50 TO STA 328+00


PROP. ℄ FM 6
PROP. R.O.W. 180'
VARIES 10'-30'
40.5' BORDER WIDTH
99' PAVED SURFACE (B-B)
40.5' BORDER WIDTH
2' OFFSET
12' TRAVEL LANE
18' RAISED MEDIAN
10' SIDEPATH
4' BUF.
1.5% (TYP)
PR 11 PEDESTRIAN RAIL
6" CURB
TY II CURB
2.0%
PGL
4:1
MAX 3:1
EXIST. R.O.W.
PROP. R.O.W.

PROP TYP SECTION
180' PROPOSED ROW
STA 317+00 TO STA 319+53
STA 321+40 TO STA 323+50

PLAN LEGEND:

- PROPOSED ℄
- PROPOSED R.O.W.
- PROPOSED DRAINAGE EASEMENT
- EXISTING R.O.W.
- PROPOSED PEDESTRIAN RAIL
- REGULATORY FLOODWAY
- 100 YR FLOODPLAIN LIMITS
- 500 YR FLOODPLAIN LIMITS
- PARCEL LINE
- COUNTY LINE
- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- → PROPOSED DIRECTION OF TRAVEL
- ⇨ EXISTING DIRECTION OF TRAVEL
- PROPOSED BRIDGE
- PROPOSED ROADWAY
- PROPOSED DRIVEWAY
- PROPOSED SIDEPATH
- PROPOSED MEDIAN
- CEMETERY
- DISPLACEMENT
- POTENTIAL DISPLACEMENT
- SIDEWALK REMOVAL
- ROADWAY REMOVAL
- CURVE - ## CURVE ID
- ## PARCEL ID

PLAN LEGEND:

- C1 COMMUNICATIONS QL "B"
- (C1) COMMUNICATIONS QL "C"/QL "D"
- E1 POWER LINE QL "B"
- (E1) POWER LINE QL "C"/QL "D"
- G1 GAS LINE QL "B"
- (G1) GAS LINE QL "C"/QL "D"
- WW1 SANITARY SEWER LINE QL "B"
- (WW1) SANITARY SEWER LINE QL "C"/QL "D"
- SD1 STORM DRAIN LINE QL "B"
- (SD1) STORM DRAIN LINE QL "C"/QL "D"
- W1 POTABLE WATER LINE QL "B"
- (W1) POTABLE WATER LINE QL "C"/QL "D"
- X—X—X ABANDONED WATER LINE
- TS1 TRAFFIC SIGNAL LINE QL "B"
- (TS1) TRAFFIC SIGNAL LINE QL "C"/QL "D"
- OH OVERHEAD UTILITY LINE
- (PP) POWER POLE
- FLOWLINE

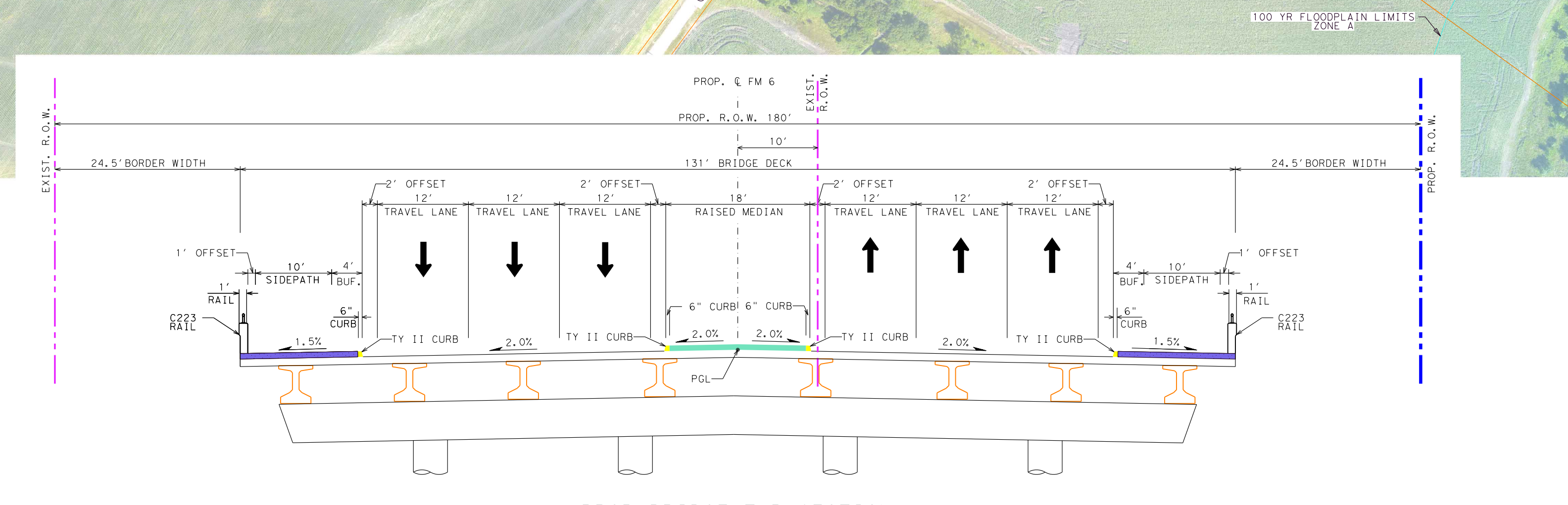
GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED 05-29 2020 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 PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTERWISE).
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48085C0445J AND 48085C0465J, DATED JUNE 2, 2009.
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM, COLLIN COUNTY APPRAISAL DISTRICT. (LATEST DATA AVAILABLE AS OF SEPTEMBER 2022)
7. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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 GOVENMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS.
10. PRIMARY BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED R.O.W. IS WITHIN 25' OF THE EXISTING BUILDING STRUCTURE.
11. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
12. EXISTING PAVEMENT/BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED (UNLESS NOTED OTHERWISE).
13. TYPICAL DRIVEWAY CURB RETURN RADII IS 15 FEET FOR RESIDENTIAL AND 30 FEET FOR CROSS STREETS UNLESS NOTED OTHERWISE.
14. CURBS ARE TYPE II (8") UNLESS NOTED OTHERWISE

CURVE DATA TABLE:

CURVE - 15		CURVE - 16	
PI STATION	= 225+67.61	PI STATION	= 327+96.17
DELTA	= 35° 23' 59.70" (LT)	DELTA	= 7° 57' 06.75" (LT)
DEGREE OF CURVE	= 5° 30' 33.15"	DEGREE OF CURVE	= 5° 30' 33.15"
TANGENT	= 331.91	TANGENT	= 72.28
LENGTH	= 642.56	LENGTH	= 144.34
RADIUS	= 1,040.00	RADIUS	= 1,040.00
PC STATION	= 222+35.70	PC STATION	= 327+23.88
PT STATION	= 228+78.26	PT STATION	= 328+68.22

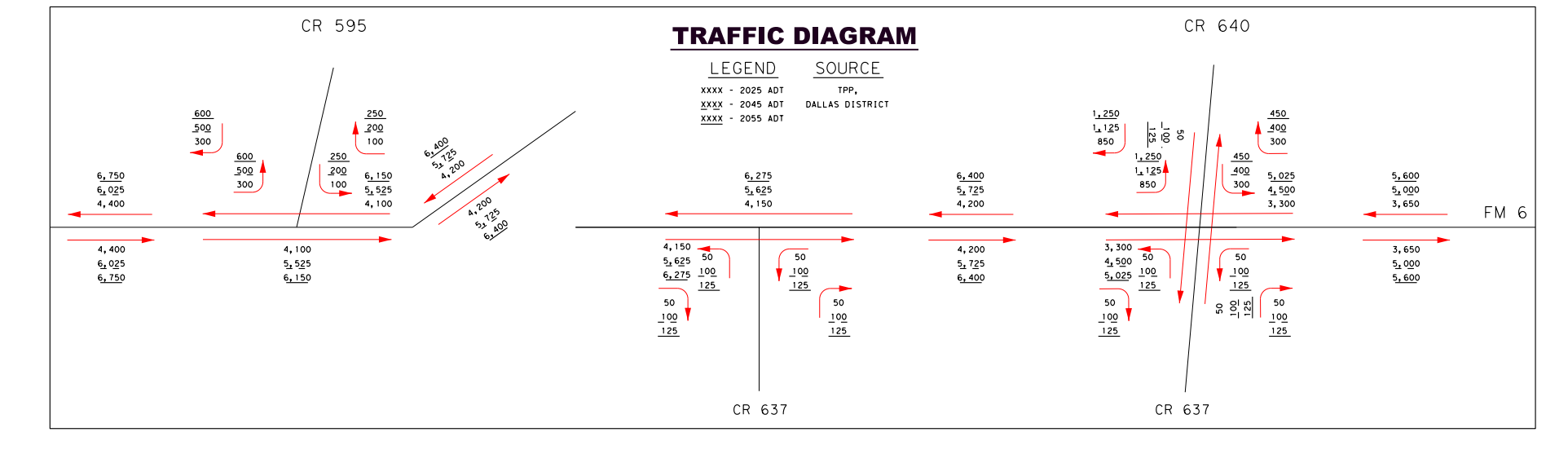
MATCH LINE STA. 220+00
CSJ: 0619-01-027
PROP. ℄ C.R. 595
EXIST. ROW UNKNOWN
VARIES 24' TO 20'
12' TO 10' TRAVEL LANE
12' TO 10' TRAVEL LANE
2.0%
PROPOSED C.R. 595 TYPICAL SECTION
STA 10+49.17 TO STA 11+36.37
PROP. ℄ C.R. 637 (WESTERN)
PROPOSED C.R. 637 TYPICAL SECTION
STA 10+49.06 TO STA 11+99.34
PROP. ℄ C.R. 637 (EASTERN)
EXIST. ROW 42'
24' USUAL
18' USUAL
24'
12' TRAVEL LANE
PROPOSED C.R. 637 TYPICAL SECTION
STA 10+61.47 TO STA 11+90.63
PROP. ℄ C.R. 640
28'
2' SHLDR
PROPOSED C.R. 640 TYPICAL SECTION
STA 10+62.40 TO STA 12+85.20
340' DECEL LENGTH
NEVADA/JOSEPHINE CITY LIMITS
C.R. 595
TO JOSEPHINE
BEGIN PED RAIL STA 225+05.00
EXIST 2-7'x7' BOX CULVERTS TO BE REMOVED
END PED RAIL STA 226+30.00
PROP 2-7'x7' BOX CULVERTS
BEGIN PED RAIL STA 225+50.00
END PED RAIL STA 226+85.00
CURVE - 15
C.R. 637
PT 228+78.26
NORTHEAST TEXAS RURAL RAIL TRANSPORTAION DISTRICT
EXISTING ROW
PROPOSED ROW
EXISTING NETEX R.R. ROW
POWER LINES TOWER TO BE RELOCATED
100 YR FLOODPLAIN LIMITS ZONE A
BOIS D'ARC CREEK
EXIST 3-9'x8' BOX CULVERTS TO BE REMOVED
PROP. 4-9'x8' BRIDGE CLASS CULVERTS
BEGIN BRIDGE CLASS CULVERT STA 256+31.46
END BRIDGE CLASS CULVERT STA 256+81.69
BEGIN C223 RAIL STA 256+20.00
END C223 RAIL STA 257+70.00
NORTHEAST TEXAS RURAL RAIL TRANS.
PROP. 2-5'x3' BOX CULVERTS
EXIST 2-48" RCP TO BE REMOVED
BEGIN PED RAIL STA 299+90.00
END PED RAIL STA 300+60.00
C.R. 640
SABINE CREEK
BEGIN BRIDGE STA 319+53
END BRIDGE STA 321+40
WATER POND
CURVE - 16
PC 327+23.88
MATCH LINE STA. 328+00
CSJ: 0619-01-027
132 133 135 136 137 138 139 140 141 142 143 144 145 146a 146b 147 148 149


PROP. ℄ FM 6
PROP. R.O.W. 180'
10'
24.5' BORDER WIDTH
131' BRIDGE DECK
24.5' BORDER WIDTH
1' OFFSET
10' SIDEPATH
4' BUF.
1' RAIL
C223 RAIL
6" CURB
2' OFFSET
12' TRAVEL LANE
18' RAISED MEDIAN
TY II CURB
1.5%
2.0%
PGL
EXIST. R.O.W.
PROP. R.O.W.

PROP BRIDGE TYP SECTION
180' PROPOSED ROW
STA 319+53 TO STA 321+40

PARCEL ID	OWNER	LANDUSE
135	BETH ANN HAMILTON	FARMLAND
136	WWP JOSEPHINE LLC	FARMLAND
137	HAI T. NGUYEN	FARMLAND
138	LEWIS LIVING TRUST	FARMLAND
139	SKYRISE DEVELOPMENT LLC	FARMLAND
140	WHEATON COLLEGE	FARMLAND
141	KEY PARTNERSHIP NO. 2 LTD	FARMLAND
142	AMMA ESTATE LLC	FARMLAND
143	AMMA ESTATE LLC	FARMLAND
144	KAREN ANN LAIR	FARMLAND

PARCEL ID	OWNER	LANDUSE
145	DELMER & JANICE COMPTON	FARMLAND
146a	DARWIN G. GOODSPEED	FARMLAND
146b	DARWIN G. GOODSPEED	FARMLAND
147	GARY STEVENS	FARMLAND
148	STEWART SEBASTIAN	FARMLAND
149	BRUCE BELLING	COMMERCIAL
150	ROBERT & CINDY RODGERS	SINGLE FAMILY


TRAFFIC DIAGRAM
LEGEND
SOURCE
XXXX : 2025 ADT
XXXX : 2045 ADT
XXXX : 2055 ADT
TPP, DALLAS DISTRICT
CR 595
CR 640
CR 637
CR 637
FM 6

PROFILE LEGEND:

- PROPOSED PGL
- EXISTING NATURAL GROUND AT PGL
- ▽ 25 YR WATER SURFACE ELEVATION
- ▽ 100 YR WATER SURFACE ELEVATION

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- PROPOSED PGL
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0 50 100 200 300
VERTICAL SCALE
0 5 10 20 30

ROLL 3 OF 4

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