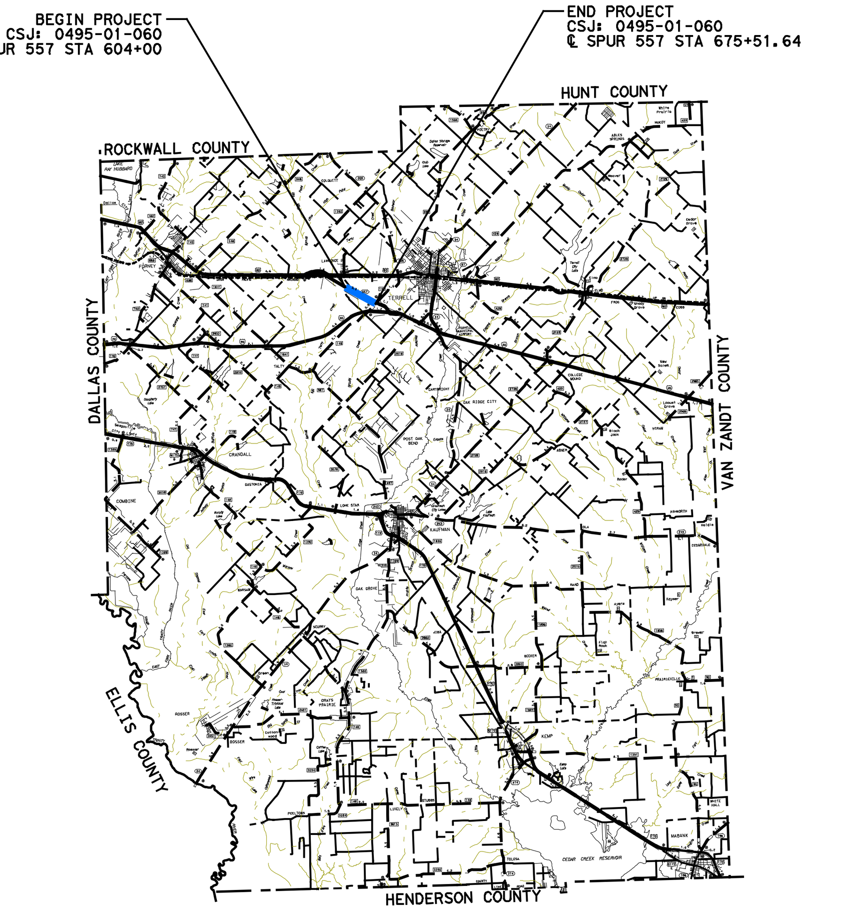
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC FOR
SPUR 557
FROM LAS LOMAS PARKWAY TO FM 148
TERRELL, TEXAS
KAUFMAN COUNTY

CSJ: 0495-01-060, 0495-01-064, 0495-01-065

OCTOBER 2013

ROLL 2 OF 2
LAS LOMAS PARKWAY



FUNCTIONAL CLASSIFICATION

SPUR 557: URBAN FREEWAY
FRONTAGE ROAD: URBAN COLLECTOR
LAS LOMAS PARKWAY: URBAN LOCAL

PROJECT LENGTH

1.35 MILES

DESIGN SPEED

SPUR 557: 70 MPH
FRONTAGE ROAD: 50 MPH
RAMPS: 50 MPH
LAS LOMAS PKWY: 35 MPH

SCHEMATIC PREPARED BY:
Kimley-Horn and Associates, Inc.
FIRM NO. F-928

JASON LASTOVICA
PROJECT MANAGER
102189 — P.E. NO.
10/31/13 — DATE

NOT A BIDDING DOCUMENT

SCHEMATIC SCALE (18" PLOT)
HORIZONTAL: 1"=200'
VERTICAL: 1"=20'

SCHEMATIC SCALE (36" PLOT)
HORIZONTAL: 1"=100'
VERTICAL: 1"=10'

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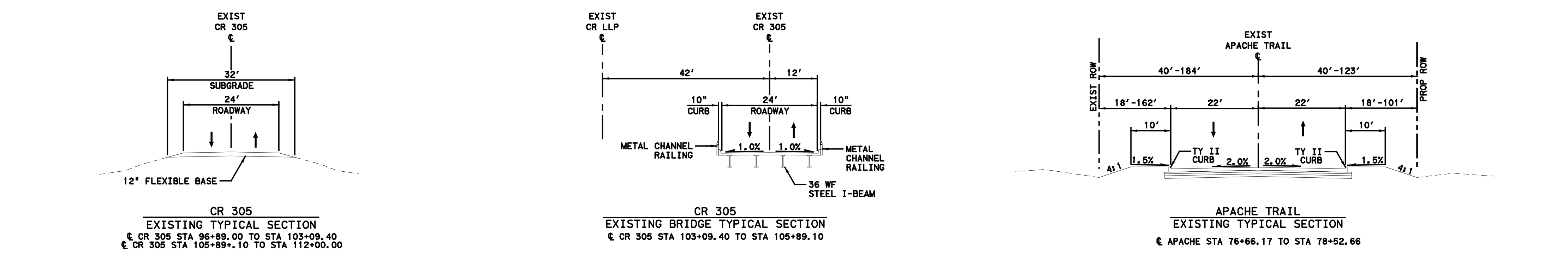
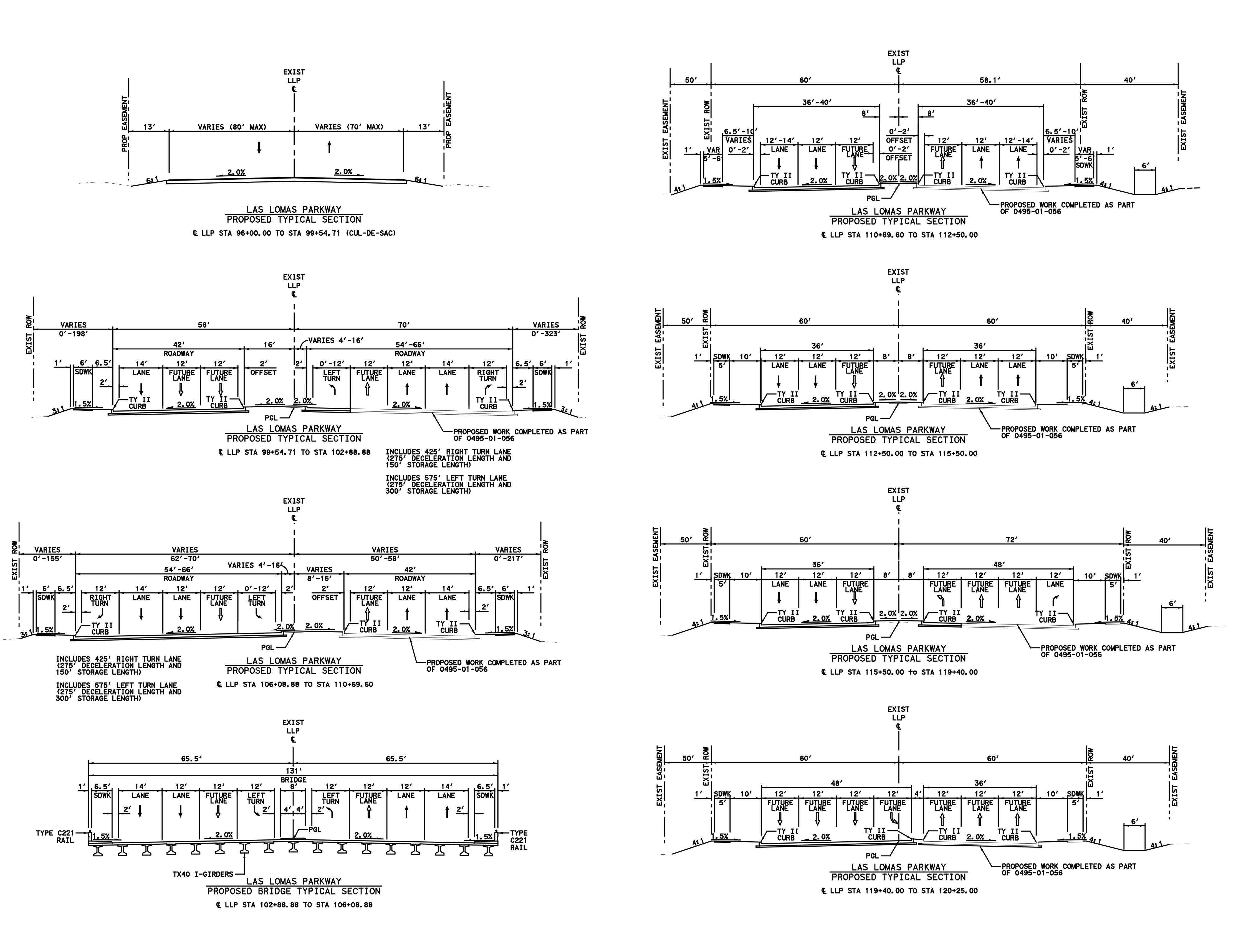
*** LAS LOMAS PKWY EXISTING TYPICAL SECTIONS ***

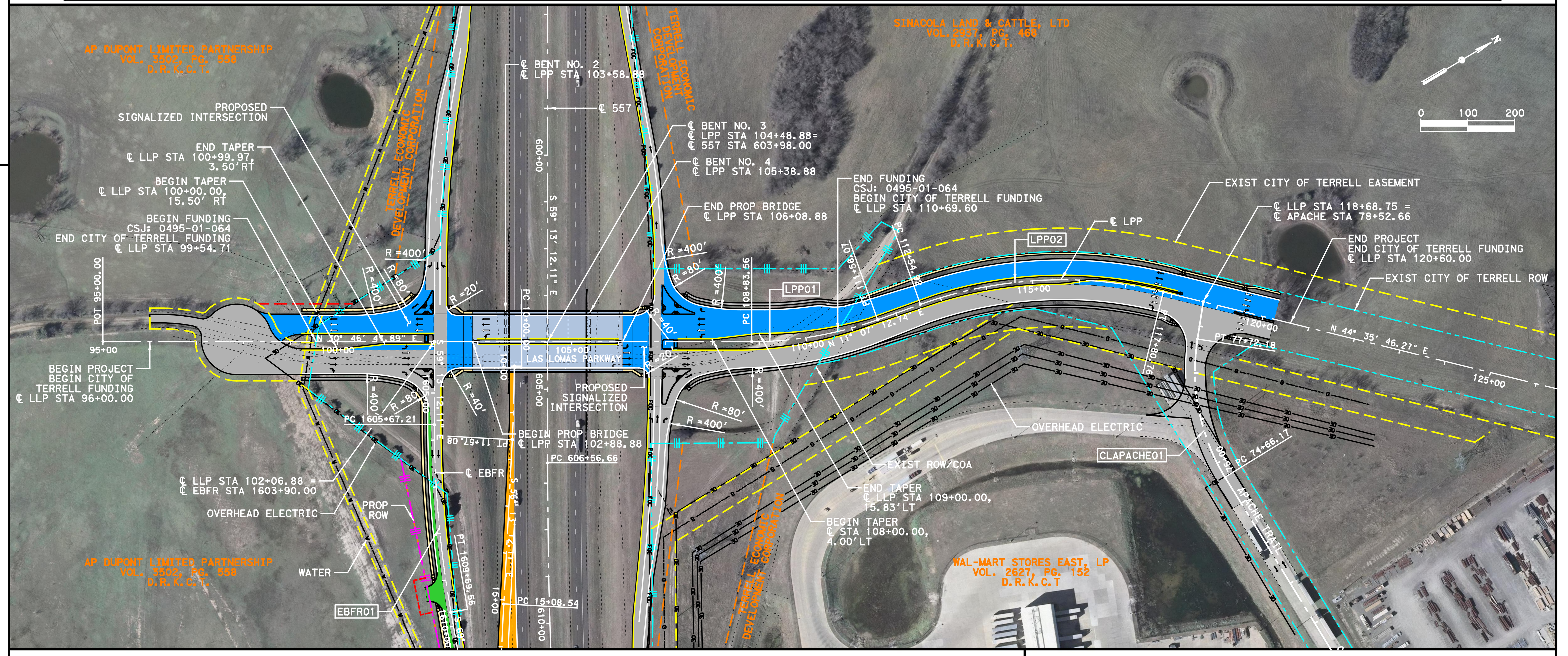


*** LAS LOMAS PKWY PROPOSED TYPICAL SECTIONS ***



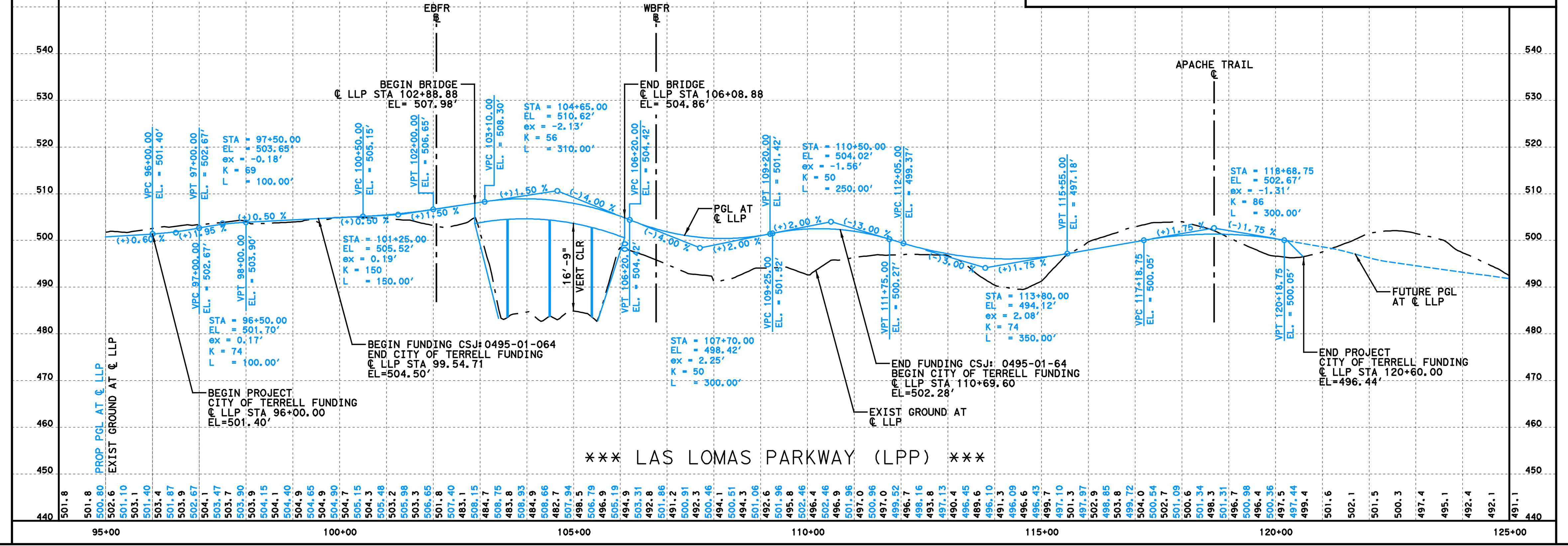
*** LEGEND ***

PROPOSED MAIN LANES WIDENING	PROPOSED CROSS STREET	PROPOSED ROW AND COA	EXISTING GAS
PROPOSED RAMP	PROPOSED BRIDGE	EXISTING ROW AND COA	EXISTING OVERHEAD ELECTRIC
PROPOSED FRONTAGE ROAD	PROPOSED REMOVAL	PROPOSED EASEMENT	EXISTING FIBER OPTIC
PROPOSED SIDEWALK	PROPOSED LANE	EXISTING EASEMENT	EXISTING WATER
PROPOSED WORK COMPLETED AS PART OF 0495-01-056	PROPOSED FUTURE LANE	EXISTING PROPERTY LINE	EXISTING PETROLEUM



*** SUPERELEVATION DATA ***

EXISTING LAS LOMAS PARKWAY (℄ LLP)				
SIGN CONVENTION	STATION	CROSS SLOPE	STATION	CROSS SLOPE
℄ (-) (+) ℄ (+) (-)	96+00.00	-2.00%	96+00.00	-2.00%
	120+25.00	-2.00%	115+00.00	-2.00%
			118+00.00	2.00%
			120+25.00	2.00%



*** HORIZONTAL GEOMETRIC DATA ***

EXISTING LAS LOMAS PARKWAY (℄ LPP)

BEGIN CHAIN N 6,955,318.02 E 2,632,391.44 Sta 95+00.00

Course from BEGIN CHAIN to PC LPP01 N 30° 46' 47.893" E Dist 1,383.56

LPP01

```
P.I.   Station      110+22.18  N 6,956,625.78  E 2,633,170.40
Delta        =   19° 39' 35.149" (LT)
Degree       =    7° 09' 43.101"
Tangent      =        138.61
Length       =        274.50
Radius       =        800.00
External     =         11.92
Long Chord   =        273.16
Mid. Ord.    =         11.74
P.C.   Station      108+83.56  N 6,956,506.69  E 2,633,099.46
P.T.   Station      111+58.07  N 6,956,761.79  E 2,633,197.13
C.C.                           N 6,956,916.09  E 2,632,412.15
Back         = N  30° 46' 47.893" E
Ahead        = N  11° 07' 12.744" E
Chord Bear   = N  20° 57' 00.319" E
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Course from PT LLP01 to PC LPP02 N 11° 07' 12.744" E Dist 96.85

LPP02

```
P.I.   Station      115+25.58  N 6,957,122.41  E 2,633,268.01
Delta        =   33° 28' 33.529" (RT)
Degree       =    6° 21' 58.312"
Tangent      =        270.66
Length       =        525.84
Radius       =        900.00
External     =         39.82
Long Chord   =        518.39
Mid. Ord.    =         38.13
P.C.   Station      112+54.92  N 6,956,856.83  E 2,633,215.81
P.T.   Station      117+80.76  N 6,957,315.14  E 2,633,458.05
C.C.                           N 6,956,683.25  E 2,634,098.91
Back         = N  11° 07' 12.744" E
Ahead        = N  44° 35' 46.273" E
Chord Bear   = N  27° 51' 29.509" E
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Course from PT LPP02 to END CHAIN N 44° 35' 46.273" E Dist 942.98

END CHAIN N 6,957,986.61 E 2,634,120.12 Sta 127+23.73

EXISTING APACHE TRAIL (℄ APACHE)

BEGIN CHAIN N 6,957,232.50 E 2,634,330.62 Sta 70+00.00

Course from BEGIN CHAIN to PC CLAPACHE01 S 89° 17' 24.785" W Dist 466.17

CLAPACHE01

```
P.I.   Station       76+25.81  N 6,957,224.74  E 2,633,704.86
Delta        =   40° 18' 21.489" (RT)
Degree       =   13° 10' 17.197"
Tangent      =        159.64
Length       =        306.01
Radius       =        435.00
External     =         28.37
Long Chord   =        299.74
Mid. Ord.    =         26.63
P.C.   Station       74+66.17  N 6,957,226.72  E 2,633,864.49
P.T.   Station       77+72.18  N 6,957,326.50  E 2,633,581.84
C.C.                           N 6,957,661.69  E 2,633,859.10
Back         = S  89° 17' 24.785" W
Ahead        = N  50° 24' 13.727" W
Chord Bear   = N  70° 33' 24.471" W
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Course from PT CLAPACHE01 to END CHAIN N 50° 24' 13.727" W Dist 80.48

END CHAIN N 6,957,377.79 E 2,633,519.82 Sta 78+52.66

PROPOSED EB FRONTAGE ROAD (℄ EBFR)

BEGIN CHAIN N 6,955,925.32 E 2,632,753.17 Sta 1603+90.00

Course from BEGIN CHAIN to PC EBFR01 S 59° 13' 12.107" E Dist 177.21

Curve EBFR01

```
P.I.   Station     1607+68.90  N 6,955,731.42 E 2,633,078.70
Delta        =   10° 01' 22.294" (LT)
Degree       =    2° 29' 28.035"
Tangent      =        201.69
Length       =        402.34
Radius       =      2,300.00
External     =          8.83
Long Chord   =        401.83
Mid. Ord.    =          8.79
P.C.   Station     1605+67.21  N 6,955,834.64 E 2,632,905.42
P.T.   Station     1609+69.56  N 6,955,659.95 E 2,633,267.29
C.C.                           N 6,957,810.66 E 2,634,082.43
Back         = S  59° 13' 12.107" E
Ahead        = S  69° 14' 34.402" E
Chord Bear   = S  64° 13' 53.254" E
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Course from PT EBFR01 to PC EBFR02 S 69° 14' 34.402" E Dist 235.08

Curve EBFR02

```
P.I.   Station     1614+87.90  N 6,955,476.24  E 2,633,751.99
Delta        =    5° 21' 40.367" (RT)
Degree       =    0° 56' 49.336"
Tangent      =        283.26
Length       =        566.10
Radius       =      6,050.00
External     =          6.63
Long Chord   =        565.90
Mid. Ord.    =          6.62
P.C.   Station     1612+04.64  N 6,955,576.63 E 2,633,487.12
P.T.   Station     1617+70.74  N 6,955,351.54 E 2,634,006.33
C.C.                           N 6,949,919.33 E 2,631,342.96
Back         = S  69° 14' 34.402" E
Ahead        = S  63° 52' 54.034" E
Chord Bear   = S  66° 33' 44.218" E
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Course from PT EBFR02 to PC EBFR03 S 63° 52' 54.034" E Dist 4,330.77

Curve EBFR03

```
P.I.   Station     1662+47.88  N 6,953,380.59  E 2,638,026.29
Delta        =   18° 28' 27.475" (RT)
Degree       =    6° 21' 58.312"
Tangent      =        146.37
Length       =        290.19
Radius       =        900.00
External     =         11.82
Long Chord   =        288.94
Mid. Ord.    =         11.67
P.C.   Station     1661+01.51  N 6,953,445.02 E 2,637,894.87
P.T.   Station     1663+91.71  N 6,953,277.83 E 2,638,130.52
C.C.                           N 6,952,636.93 E 2,637,498.66
Back         = S  63° 52' 54.034" E
Ahead        = S  45° 24' 26.559" E
Chord Bear   = S  54° 38' 40.297" E
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Course from PT EBFR03 to PC EBFR04 S 45° 24' 26.559" E Dist 607.53

Curve EBFR04

```
P.I.   Station     1671+44.37  N 6,952,749.42  E 2,638,666.50
Delta        =    6° 00' 25.801" (RT)
Degree       =    2° 04' 17.151"
Tangent      =        145.13
Length       =        290.00
Radius       =      2,766.00
External     =          3.80
Long Chord   =        289.87
Mid. Ord.    =          3.80
P.C.   Station     1669+99.24  N 6,952,851.31 E 2,638,563.15
P.T.   Station     1672+89.24  N 6,952,637.27 E 2,638,758.62
C.C.                           N 6,950,881.59 E 2,636,621.25
Back         = S  45° 24' 26.559" E
Ahead        = S  39° 24' 00.758" E
Chord Bear   = S  42° 24' 13.658" E
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Course from PT EBFR04 to END CHAIN S 39° 24' 00.758" E Dist 167.26

END CHAIN N 6,952,508.02 E 2,638,864.79 Sta 1674+56.49

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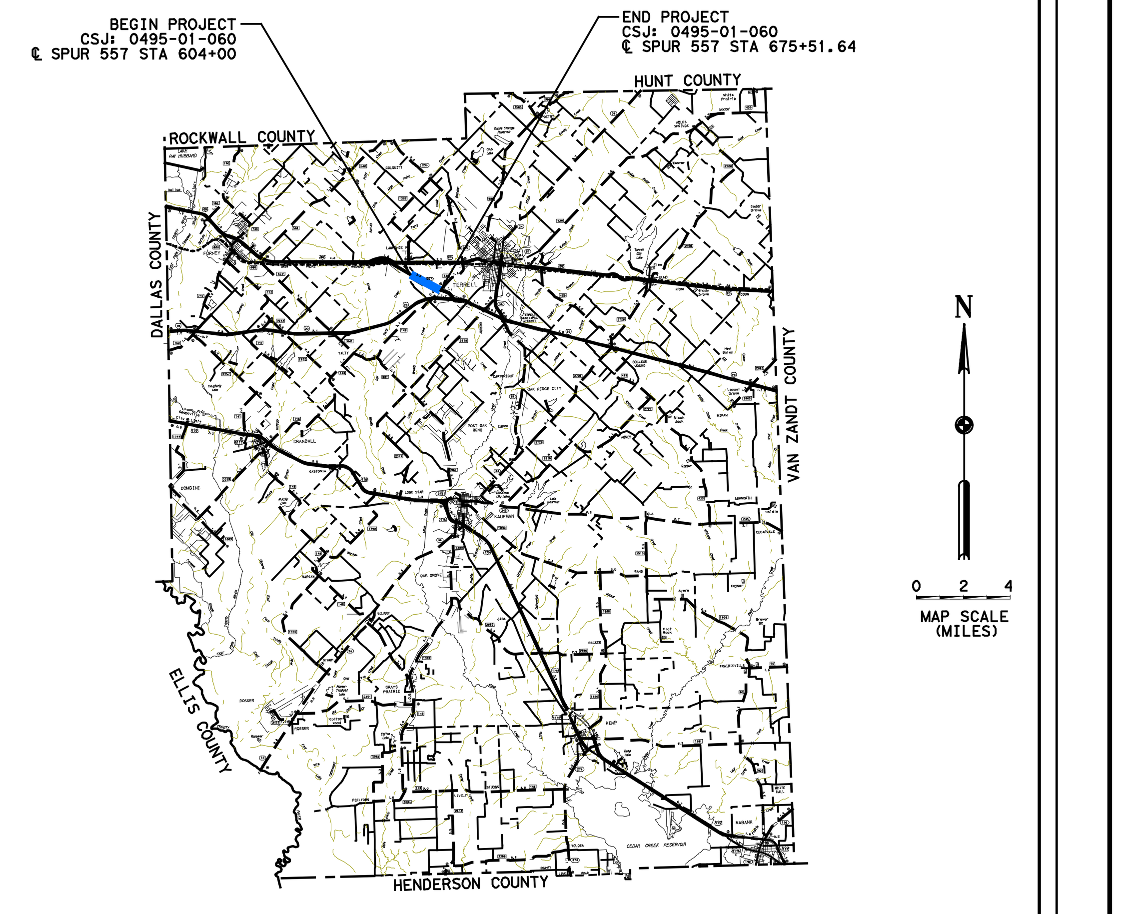

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