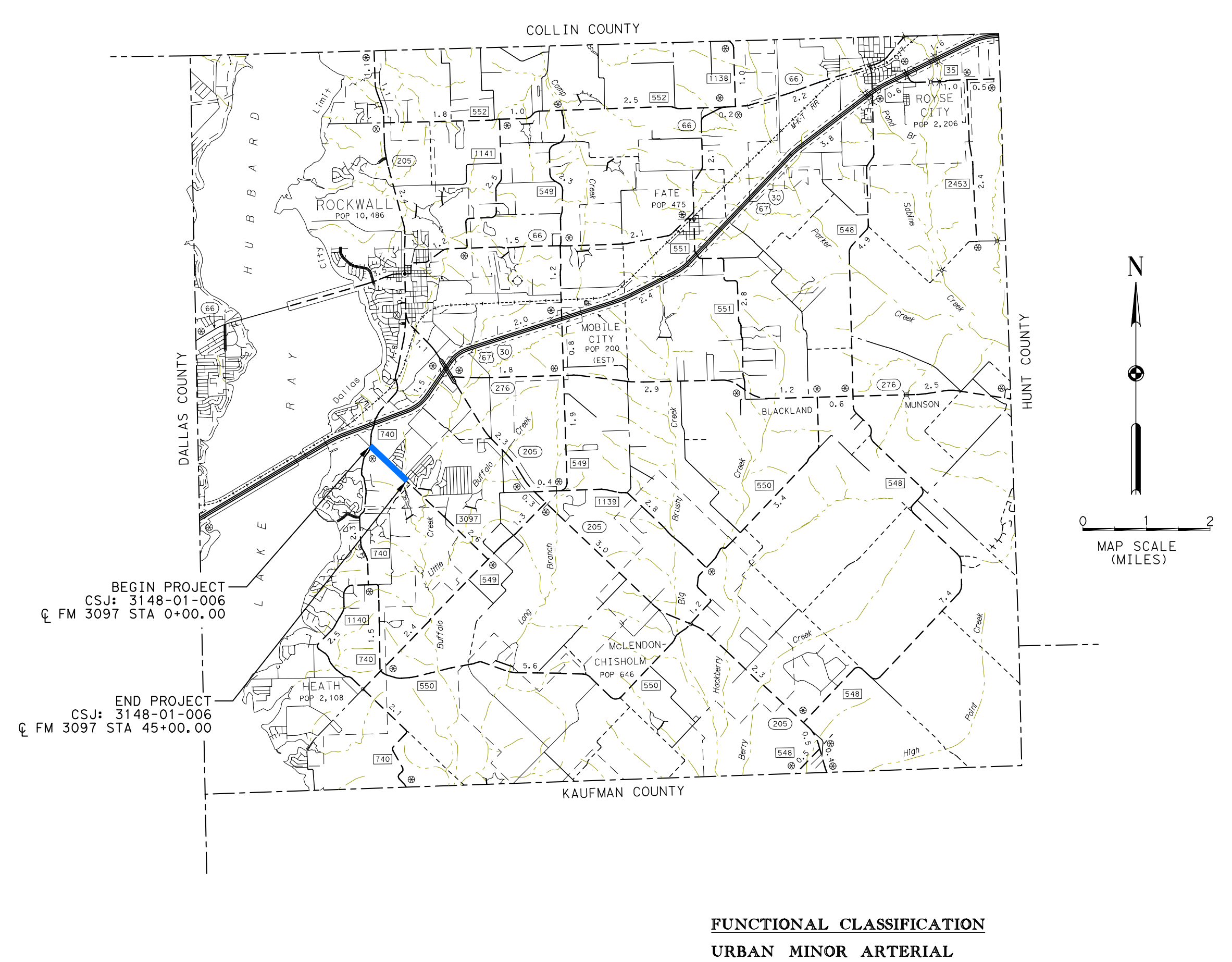
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC FOR
FM 3097
FROM FM 740 TO TUBBS ROAD
ROCKWALL, TEXAS
ROCKWALL COUNTY

CSJ: 3148-01-006
MAY 2011
ROLL 1 OF 1



COLLIN COUNTY
KAUFMAN COUNTY
DALLAS COUNTY
HUNT COUNTY
ROCKWALL POP 10,486
FATE POP 475
ROYSE CITY POP 2,206
MOBILE CITY POP 200 (EST)
McLENDON CHISHOLM POP 646
HEATH POP 2,108
BLACKLAND
MUNSON
HUBBARD RAY LAKE
BEGIN PROJECT CSJ: 3148-01-006 ℄ FM 3097 STA 0+00.00
END PROJECT CSJ: 3148-01-006 ℄ FM 3097 STA 45+00.00
N
0 1 2
MAP SCALE (MILES)

SCHEMATIC PREPARED BY:
Kimley-Horn and Associates, Inc.
DENNIS K. SEAL
PROJECT MANAGER
80287 5/27/2011
P.E. NO. DATE

NOT A BIDDING DOCUMENT

FUNCTIONAL CLASSIFICATION
URBAN MINOR ARTERIAL

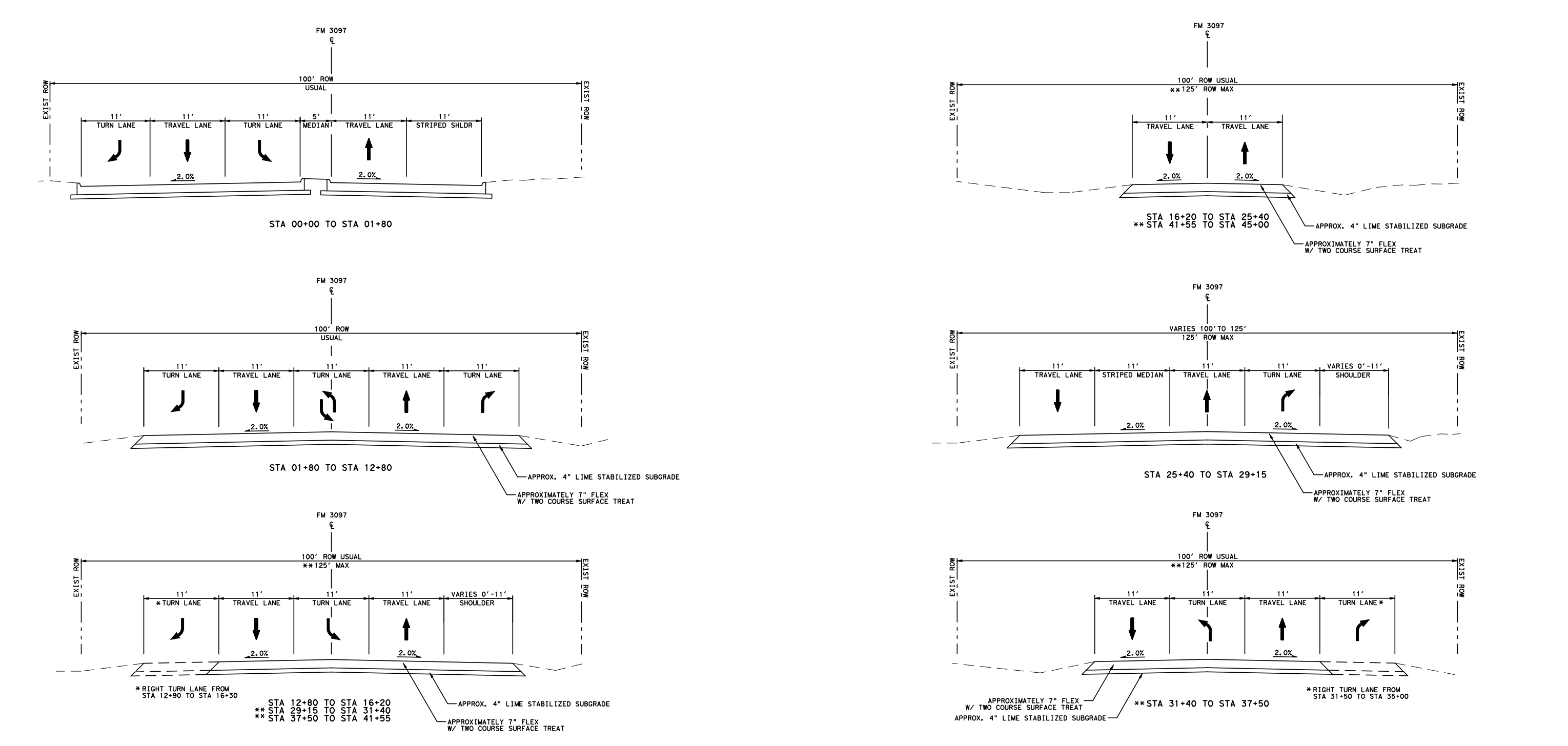
PROJECT LENGTH
0.85 MILES

DESIGN SPEED
FM 3097: 40 MPH

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

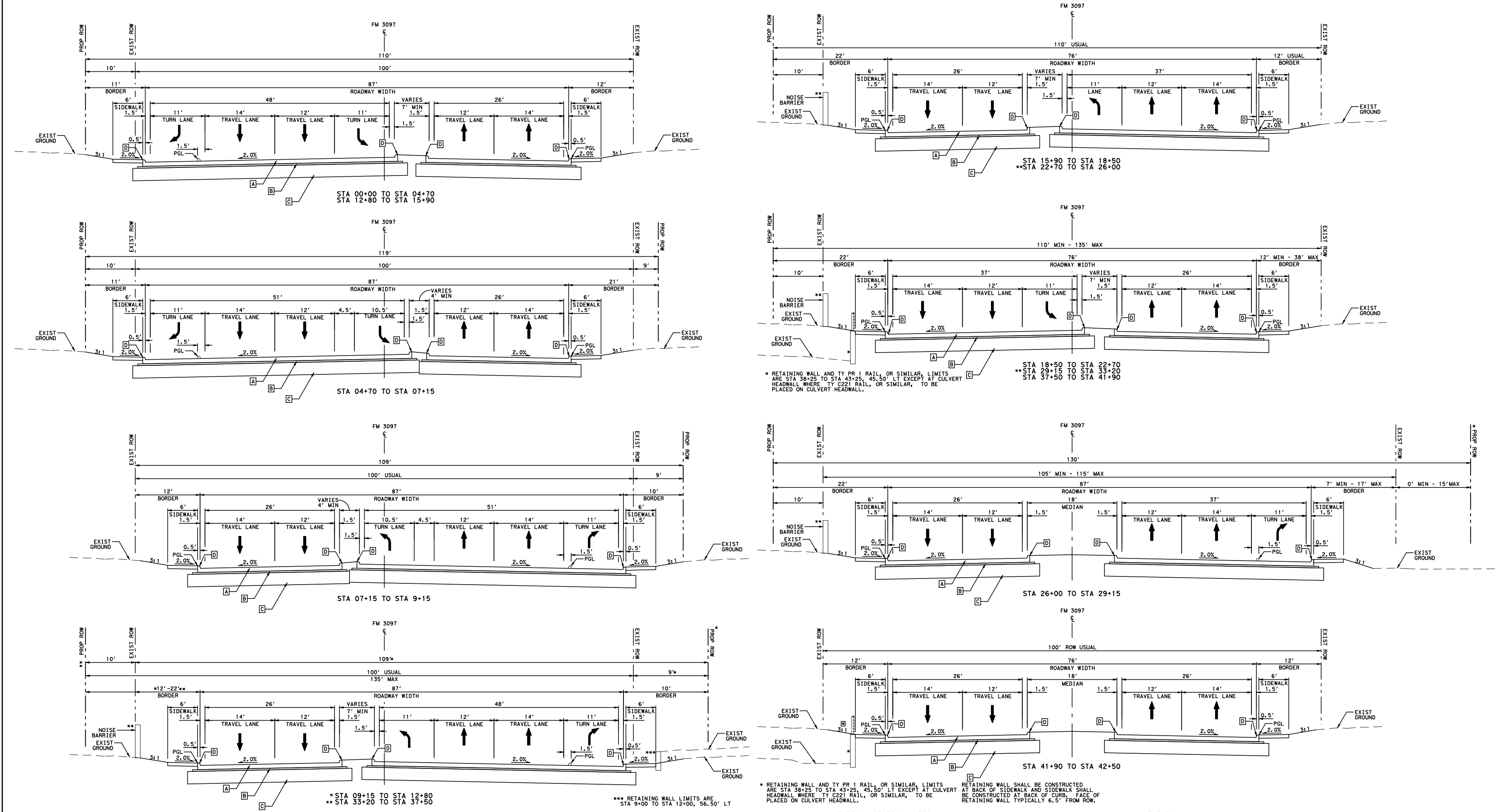
© 2011 By Texas Department of Transportation; all rights reserved

*** EXISTING TYPICAL SECTIONS ***



FM 3097 ℄
EXIST ROW
100' ROW USUAL
**125' ROW MAX
VARIES 100' TO 125'
TURN LANE
TRAVEL LANE
MEDIAN
STRIPED SHLDR
STRIPED MEDIAN
SHOULDER
VARIES 0'-11'
2.0%
STA 00+00 TO STA 01+80
STA 01+80 TO STA 12+80
STA 12+80 TO STA 16+20
** STA 29+15 TO STA 31+40
** STA 37+50 TO STA 41+55
STA 16+20 TO STA 25+40
** STA 41+55 TO STA 45+00
STA 25+40 TO STA 29+15
** STA 31+40 TO STA 37+50
* RIGHT TURN LANE FROM STA 12+90 TO STA 16+30
* RIGHT TURN LANE FROM STA 31+50 TO STA 35+00
APPROX. 4" LIME STABILIZED SUBGRADE
APPROXIMATELY 7" FLEX W/ TWO COURSE SURFACE TREAT

*** PROPOSED TYPICAL SECTIONS ***



FM 3097 ℄
PROP ROW
EXIST ROW
110'
100'
119'
109'
109'±
130'
135' MAX
110' USUAL
110' MIN - 135' MAX
105' MIN - 115' MAX
100' ROW USUAL
87' ROADWAY WIDTH
76' ROADWAY WIDTH
BORDER
SIDEWALK
TURN LANE
TRAVEL LANE
MEDIAN
NOISE BARRIER
EXIST GROUND
PGL
2.0%
3:1
VARIES 7' MIN
VARIES 4' MIN
STA 00+00 TO STA 04+70
STA 12+80 TO STA 15+90
STA 04+70 TO STA 07+15
STA 07+15 TO STA 9+15
* STA 09+15 TO STA 12+80
** STA 33+20 TO STA 37+50
STA 15+90 TO STA 18+50
** STA 22+70 TO STA 26+00
STA 18+50 TO STA 22+70
** STA 29+15 TO STA 33+20
STA 37+50 TO STA 41+90
STA 26+00 TO STA 29+15
STA 41+90 TO STA 42+50
*** RETAINING WALL LIMITS ARE STA 9+00 TO STA 12+00, 56.50' LT
* RETAINING WALL AND TY PR 1 RAIL, OR SIMILAR, LIMITS ARE STA 38+25 TO STA 43+25, 45.50' LT EXCEPT AT CULVERT HEADWALL WHERE TY C221 RAIL, OR SIMILAR, TO BE PLACED ON CULVERT HEADWALL.
RETAINING WALL SHALL BE CONSTRUCTED AT BACK OF SIDEWALK AND SIDEWALK SHALL BE CONSTRUCTED AT BACK OF CURB. FACE OF RETAINING WALL TYPICALLY 6.5' FROM ROW.

TYPICAL SECTION NOTES:
1. ALL STATIONS ARE APPROXIMATE.
2. EXISTING PAVEMENT STRUCTURE AS PROVIDED BY AS-BUILT PLANS.
3. EXISTING LANE CONFIGURATIONS ARE APPROXIMATE AND BASED OFF OF AS-BUILT PLANS, AERIAL PHOTOGRAPHY AND FIELD OBSERVATIONS.

LEGEND
A 10" CRCP
B 4" HMAC
C 30" LIME TREATED SUBGRADE
D 6" TYPE II MONO CURB

*** HORIZONTAL GEOMETRY ***

```
PROP CL FM 3097
==========================================================================
BEGIN PROJECT        N    7,014,412.81  E    2,591,511.86 Sta      0+00.00
Course from BEGIN PROJECT to PC [CL309701] S 45° 44' 00.54" E Dist 200.00
                              Curve Data
                              *----------*
[CL309701]
P.I.  Station             2+75.00  N    7,014,220.86  E    2,591,708.79
Delta      =     0° 45' 00.00" (RT)
Degree     =     0° 30' 00.00"
Tangent    =             75.00
Length     =            150.00
Radius     =         11,459.16
External   =              0.25
Long Chord =            150.00
Mid. Ord.  =              0.25
P.C.  Station             2+00.00  N    7,014,273.21  E    2,591,655.08
P.T.  Station             3+50.00  N    7,014,167.82  E    2,591,761.81
C.C.                               N    7,006,067.30  E    2,583,656.62
Back       = S  45° 44' 00.54" E
Ahead      = S  44° 59' 00.54" E
Chord Bear = S  45° 21' 30.54" E

Course from PT [CL309701] to PC [CL309702] S 44° 59' 00.54" E Dist 155.58
                              Curve Data
                              *----------*
[CL309702]
P.I.  Station             5+80.59  N    7,014,004.72  E    2,591,924.81
Delta      =     0° 45' 00.00" (LT)
Degree     =     0° 30' 00.00"
Tangent    =             75.00
Length     =            150.00
Radius     =         11,459.16
External   =              0.25
Long Chord =            150.00
Mid. Ord.  =              0.25
P.C.  Station             5+05.58  N    7,014,057.77  E    2,591,871.79
P.T.  Station             6+55.58  N    7,013,952.37  E    2,591,978.51
C.C.                               N    7,022,158.28  E    2,599,976.97
Back       = S  44° 59' 00.54" E
Ahead      = S  45° 44' 00.54" E
Chord Bear = S  45° 21' 30.54" E

Course from PT [CL309702] to END PROJECT S 45° 44' 00.54" E Dist 3844.42

END PROJECT          N    7,011,268.98  E    2,594,731.350 Sta    45+00.00
==========================================================================
```

*** TURN LANE DIMENSIONS ***

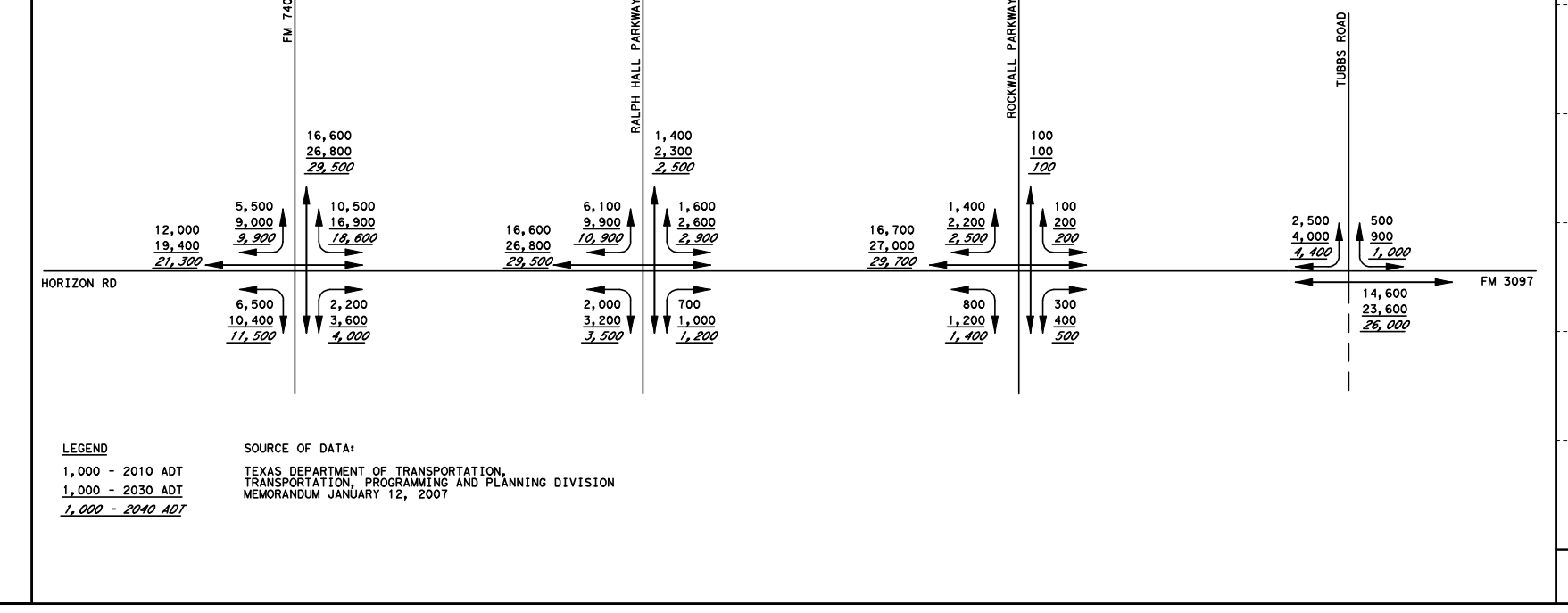
TURN LANE DIMENSIONS

TURN LANE	*TAPER LENGTH	DECEL LENGTH	STORAGE LENGTH	TOTAL LENGTH
#	FT	FT	FT	FT
L1	104.30	175	100	275
R1	104.30	275	450	725
L2	104.30	160	100	260
R2	104.30	275	100	375
L3	104.30	160	100	260
R3	104.30	275	100	375
L4	104.30	160	100	260
L5	104.30	160	100	260
R4	104.30	275	100	375

TURN LANE	*TAPER LENGTH	DECEL LENGTH	STORAGE LENGTH	TOTAL LENGTH
#	FT	FT	FT	FT
L6	104.30	160	100	260
L7	104.30	275	100	375
R5	104.30	275	100	375
L8	104.30	275	100	375
L9	104.30	275	100	375
L10	104.30	275	100	375
L11	104.30	275	100	375
L12	104.30	275	100	375

*REVERSE CURVE TAPER RADII = 250'

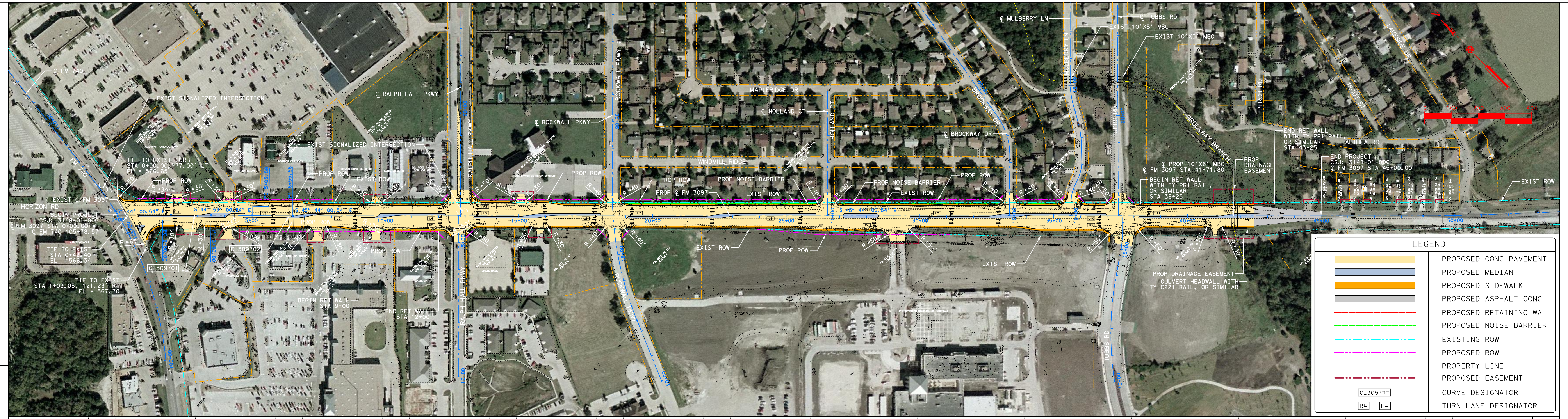
*** DESIGN ADT ***



FM 740
RALPH HALL PARKWAY
ROCKWALL PARKWAY
TUBBS ROAD
HORIZON RD
FM 3097
16,600 / 26,800 / 29,500
12,000 / 19,400 / 21,300
5,500 / 9,000 / 9,900
10,500 / 16,900 / 18,600
6,500 / 10,400 / 11,500
2,200 / 3,600 / 4,000
16,600 / 26,800 / 29,500
6,100 / 9,900 / 10,900
1,400 / 2,300 / 2,500
1,600 / 2,600 / 2,800
2,000 / 3,200 / 3,500
700 / 1,000 / 1,200
16,700 / 27,000 / 29,700
1,400 / 2,200 / 2,500
100 / 100 / 100
100 / 200 / 200
800 / 1,200 / 1,400
300 / 400 / 500
2,500 / 4,000 / 4,400
500 / 900 / 1,000
14,600 / 23,600 / 26,000

LEGEND
1,000 - 2010 ADT
1,000 - 2030 ADT
1,000 - 2040 ADT

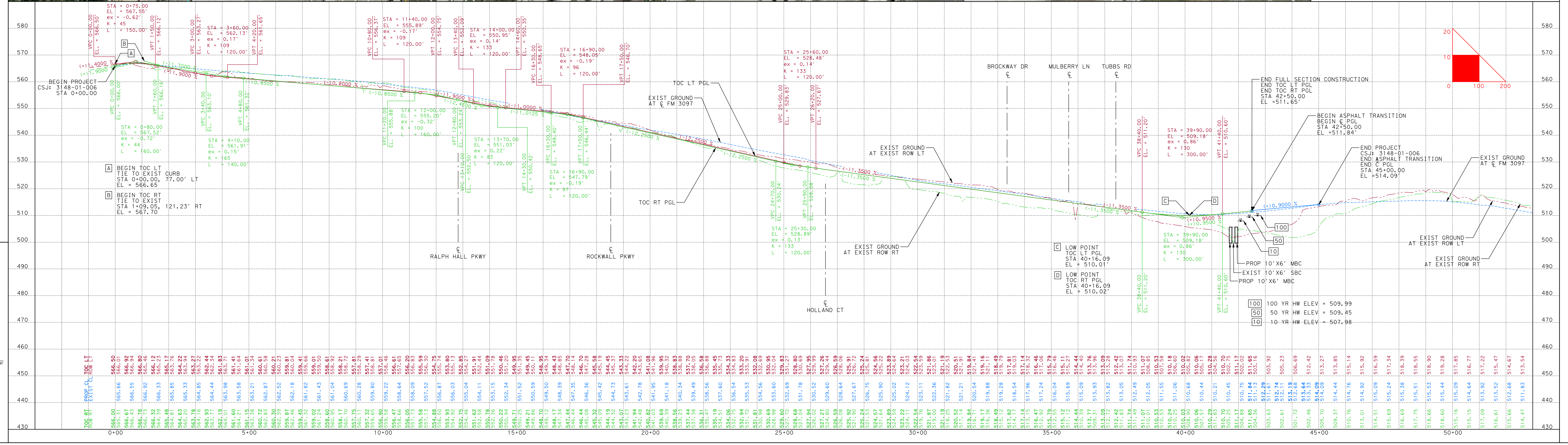
SOURCE OF DATA:
TEXAS DEPARTMENT OF TRANSPORTATION, TRANSPORTATION, PROGRAMMING AND PLANNING DIVISION
MEMORANDUM JANUARY 12, 2007



℄ FM 740
FM 740
HORIZON RD
EXIST SIGNALIZED INTERSECTION
℄ RALPH HALL PKWY
RALPH HALL PKWY
℄ ROCKWALL PKWY
ROCKWALL PKWY
MAPLERIDGE DR
℄ HOLLAND CT
HOLLAND CT
WINDMILL RIDGE
℄ BROCKWAY DR
BROCKWAY DR
℄ MULBERRY LN
MULBERRY LN
℄ TUBBS RD
TUBBS RD
PERCH RD
TROUT ST
LAKESIDE DR
ALTHEA RD
BROCKWAY BRANCH
EXIST ℄ FM 3097
PROP ℄ FM 3097
BEGIN PROJECT CSJ: 3148-01-006 ℄ FM 3097 STA 0+00.00 ℄ FM 740 105+78.57
TIE TO EXIST CURB STA 0+00.00, 77.00' LT EL = 566.65
TIE TO EXIST STA 0+49.40 EL = 566.34
TIE TO EXIST STA 1+09.05, 121.23' RT EL = 567.70
CL309701
CL309702
PROP ROW
EXIST ROW
BEGIN RET WALL STA 9+00
END RET WALL STA 12+00
PROP NOISE BARRIER
EXIST 10'X5' MBC
℄ PROP 10'X6' MBC ℄ FM 3097 STA 41+71.80
BEGIN RET WALL WITH TY PR1 RAIL, OR SIMILAR STA 38+25
END RET WALL WITH TY PR1 RAIL, OR SIMILAR STA 43+25
PROP DRAINAGE EASEMENT
PROP DRAINAGE EASEMENT CULVERT HEADWALL WITH TY C221 RAIL, OR SIMILAR
END PROJECT CSJ: 3148-01-006 ℄ FM 3097 STA 45+00.00
S 45° 44' 00.54" E
S 44° 59' 00.54" E
5+00 10+00 15+00 20+00 25+00 30+00 35+00 40+00 45+00 50+00
R=30' R=40' R=50' R=65'
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 R1 R2 R3 R4 R5
0 100 200 300 400

LEGEND

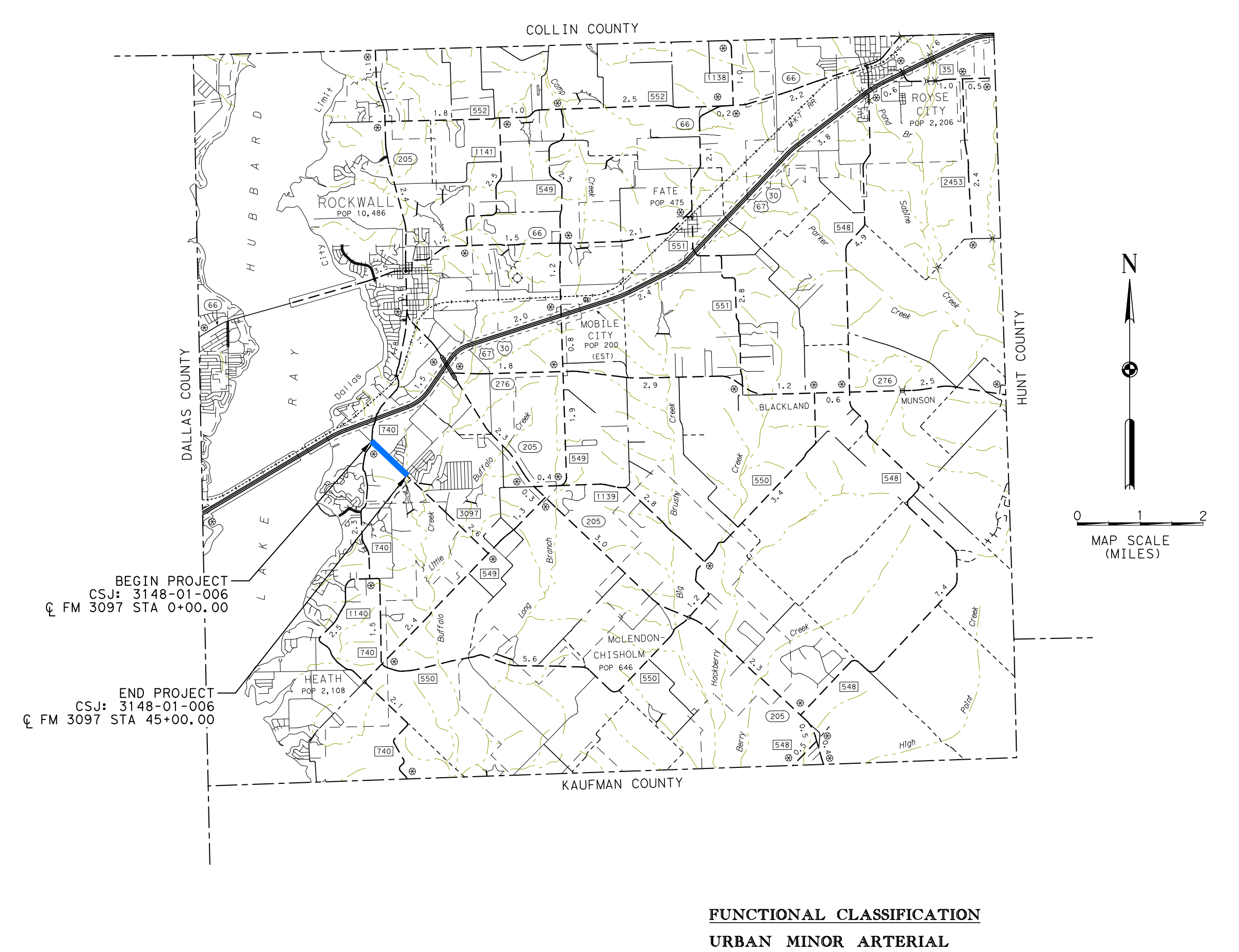
🟨	PROPOSED CONC PAVEMENT
🟦	PROPOSED MEDIAN
🟧	PROPOSED SIDEWALK
▨	PROPOSED ASPHALT CONC
- - -	PROPOSED RETAINING WALL
- - -	PROPOSED NOISE BARRIER
-·-·-	EXISTING ROW
-·-·-	PROPOSED ROW
-·-·-	PROPERTY LINE
-·-·-	PROPOSED EASEMENT
CL3097##	CURVE DESIGNATOR
R# L#	TURN LANE DESIGNATOR



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

DESIGN SCHEMATIC FOR
FM 3097
FROM FM 740 TO TUBBS ROAD
ROCKWALL, TEXAS
ROCKWALL COUNTY

CSJ: 3148-01-006
MAY 2011
ROLL 1 OF 1



COLLIN COUNTY
KAUFMAN COUNTY
DALLAS COUNTY
HUNT COUNTY
BEGIN PROJECT CSJ: 3148-01-006 ℄ FM 3097 STA 0+00.00
END PROJECT CSJ: 3148-01-006 ℄ FM 3097 STA 45+00.00
N
MAP SCALE (MILES)

SCHEMATIC PREPARED BY:
Kimley-Horn and Associates, Inc.
DENNIS K. SEAL
PROJECT MANAGER
80287 5/27/2011
P.E. NO. DATE

NOT A BIDDING DOCUMENT

FUNCTIONAL CLASSIFICATION
URBAN MINOR ARTERIAL

PROJECT LENGTH
0.85 MILES

DESIGN SPEED
FM 3097: 40 MPH

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

© 2011 By Texas Department of Transportation; all rights reserved