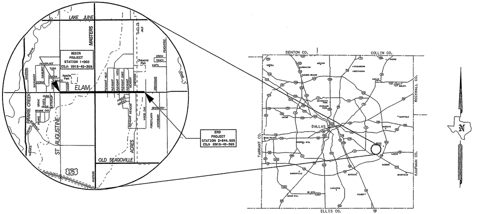
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

JAY R. NELSON, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC
ELAM ROAD

FROM: ST. AUGUSTINE ROAD
TO: 110 m EAST OF ACRES DRIVE
CONTROL: 0918-45-369
URBAN MINOR ARTERIAL
DALLAS COUNTY
DESIGN SPEED = 60 km/h
PROJECT LENGTH = 1.84 km
SCALE: HORIZONTAL 1:500
ROLL 2 OF 2
JUNE 2001


LAKE JUNE
MASTERS
ELAM
ST AUGUSTINE
PRAIRIE CREEK
ACRES
OLD SEAGOVILLE
175
BEGIN PROJECT STATION 1+000 CSJ: 0918-45-369
END PROJECT STATION 2+844.605 CSJ: 0918-45-369
DENTON CO.
COLLIN CO.
ROCKWALL CO.
KAUFMAN CO.
ELLIS CO.
TARRANT CO.
DALLAS
N

NOT A BIDDING DOCUMENT

ENGINEER Wayne Holley, P.E.
P.E. NUMBER 82042
DATE 6/4/2001

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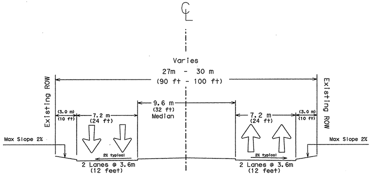
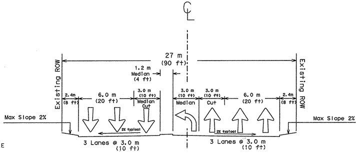
Existing Typical Section


℄
Varies
27m - 30 m
(90 ft - 100 ft)
Existing ROW
(3.0 m)
(10 ft)
7.2 m
(24 ft)
9.6 m
(32 ft)
Median
7.2 m
(24 ft)
(3.0 m)
(10 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
2 Lanes @ 3.6m
(12 feet)
2 Lanes @ 3.6m
(12 feet)

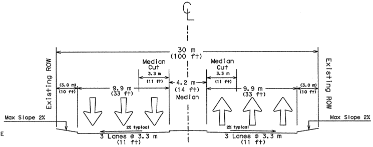
NOTE: NOT TO SCALE

Proposed Typical Section from 1+000 to Station 1+080


℄
27 m
(90 ft)
1.2 m
Median
(4 ft)
Existing ROW
2.4m
(8 ft)
6.0 m
(20 ft)
3.0 m
(10 ft)
Median Cut
3.0 m
(10 ft)
Median
3.0 m
(10 ft)
Cut
6.0 m
(20 ft)
2.4m
(8 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
3 Lanes @ 3.0 m
(10 ft)
3 Lanes @ 3.0 m
(10 ft)

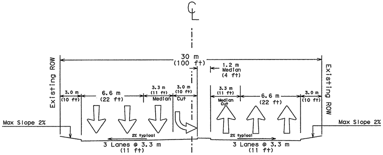
NOTE: NOT TO SCALE

Proposed Typical Section For widening From Station 1+080 to Station 2+844.605


℄
30 m
(100 ft)
Existing ROW
(3.0 m)
(10 ft)
9.9 m
(33 ft)
Median Cut
3.3 m
(11 ft)
4.2 m
(14 ft)
Median
Median Cut
3.3 m
(11 ft)
9.9 m
(33 ft)
(3.0 m)
(10 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
3 Lanes @ 3.3 m
(11 ft)
3 Lanes @ 3.3 m
(11 ft)

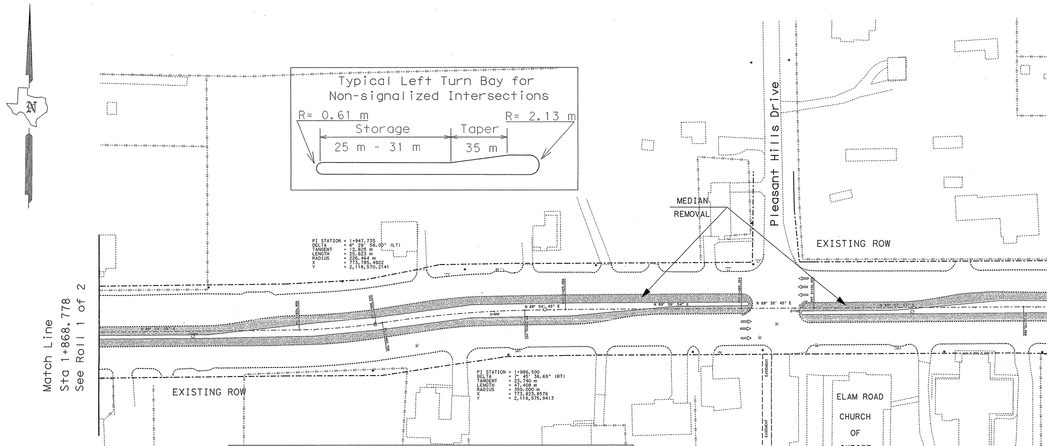
NOTE: NOT TO SCALE

Proposed Typical Section For widening with left turn bay From Station 1+080 to Station 2+844.605


℄
30 m
(100 ft)
1.2 m
Median
(4 ft)
Existing ROW
3.0 m
(10 ft)
6.6 m
(22 ft)
3.3 m
(11 ft)
Median
3.0 m
(10 ft)
Cut
3.3 m
(11 ft)
Median Cut
6.6 m
(22 ft)
3.0 m
(10 ft)
Existing ROW
Max Slope 2%
2% typical
2% typical
Max Slope 2%
3 Lanes @ 3.3 m
(11 ft)
3 Lanes @ 3.3 m
(11 ft)

NOTE: NOT TO SCALE

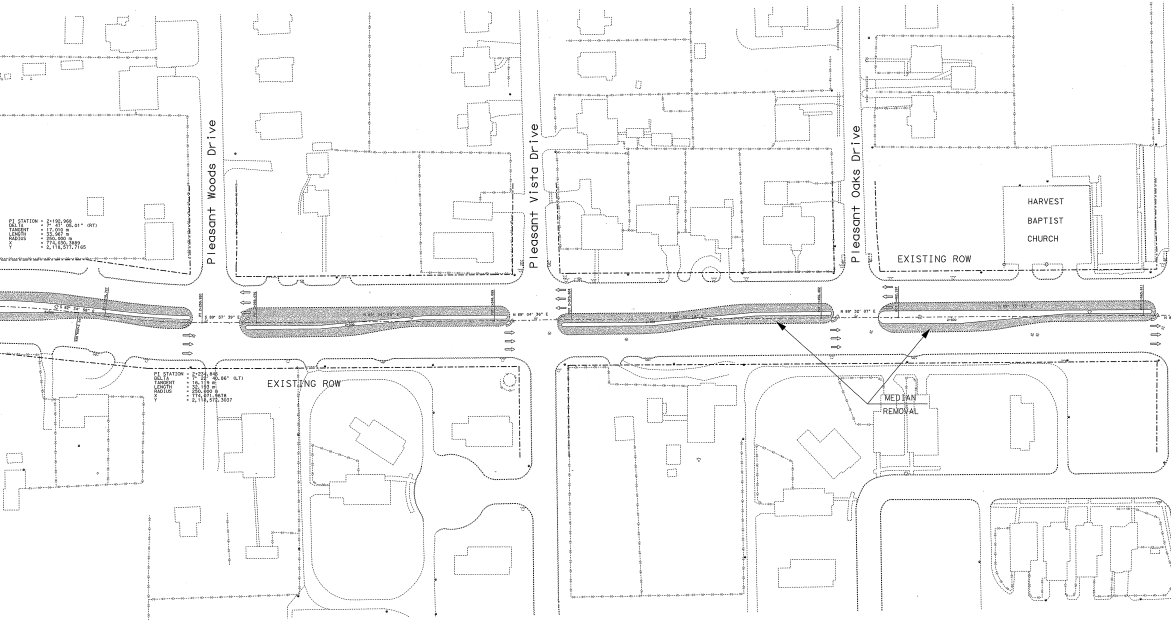
NOTE: ELAM ROAD @ ST. AUGUSTINE ROAD,
AND ELAM ROAD @ MASTERS DRIVE
ARE SIGNALIZED INTERSECTIONS


N
Typical Left Turn Bay for Non-signalized Intersections
R= 0.61 m
R= 2.13 m
Storage
25 m - 31 m
Taper
35 m
PI STATION = 1+947.735
DELTA = 6° 28′ 58.00″ (LT)
TANGENT = 12.825 m
LENGTH = 25.623 m
RADIUS = 226.464 m
X = 773,785.4922
Y = 2,118,570.2141
PI STATION = 1+986.500
DELTA = 7° 45′ 38.69″ (RT)
TANGENT = 23.740 m
LENGTH = 47.408 m
RADIUS = 350.000 m
X = 773,823.8576
Y = 2,118,575.9413
MEDIAN REMOVAL
Pleasant Hills Drive
EXISTING ROW
EXISTING ROW
N 88° 54′ 43″ E
N 89° 39′ 54″ E
N 89° 35′ 45″ E
2+000
2+100
POT 2+023.656
POT 2+082.254
POT 2+106.422
PT 2+010.167
EASEMENT
EASEMENT
ELAM ROAD CHURCH OF CHRIST
Match Line
Sta 1+868.778
See Roll 1 of 2

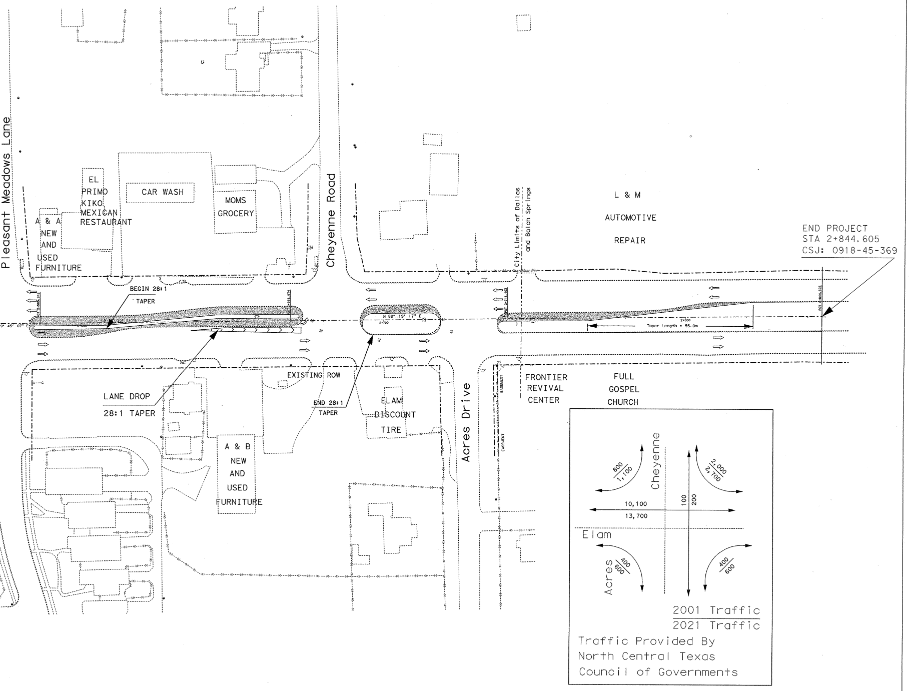
Vertical Curve Data

PI	Elevation	Length (m)	G_1(%)	G_2(%)	K
1+975.6	143.81	30.5	0.4	1.748	23
2+051.8	143.14	No VC	1.748	0.75	0
2+173.8	144.05	No VC	0.75	0.527	0
2+265.2	144.54	No VC	0.527	0.308	0
2+463.4	145.15	No VC	0.308	0.307	0
2+554.9	145.43	No VC	0.307	-0.44	0
2+631.1	145.09	No VC	-0.44	0.3	0
2+692.1	145.27	No VC	0.3	-0.34	0
2+760.7	145.04	No VC	-0.34	0.3	0

NOTE: ALL ADJACENT STRUCTURES
SHOWN IN TOPO ARE RESIDENTIAL
UNLESS LABELED OTHERWISE


Pleasant Woods Drive
Pleasant Vista Drive
Pleasant Oaks Drive
HARVEST
BAPTIST
CHURCH
EXISTING ROW
EXISTING ROW
MEDIAN
REMOVAL
PI STATION = 2+192.968
DELTA = 7° 47' 05.01" (RT)
TANGENT = 17.010 m
LENGTH = 33.967 m
RADIUS = 250.000 m
X = 774,030.3889
Y = 2,118,577.7165
PI STATION = 2+234.846
DELTA = 7° 22' 40.86" (LT)
TANGENT = 16.119 m
LENGTH = 32.193 m
RADIUS = 250.000 m
X = 774,071.9678
Y = 2,118,572.3037
S 82° 34' 58" E
PT 2+250.920
S 89° 57' 39" E
POT 2+269.076
N 89° 34' 59" E
2+300
POT 2+348.089
N 89° 04' 36" E
POT 2+373.604
POT 2+456.482
N 89° 32' 07" E
POT 2+482.297
N 89° 33' 15" E
2+500
POT 2+563.611

NOTE: ELAM ROAD @ ST. AUGUSTINE ROAD,
AND ELAM ROAD @ MASTERS DRIVE
ARE SIGNALIZED INTERSECTIONS


Pleasant Meadows Lane
EL PRIMO KIKO MEXICAN RESTAURANT
CAR WASH
MOMS GROCERY
A & A NEW AND USED FURNITURE
Cheyenne Road
City Limits of Dallas and Balch Springs
L & M AUTOMOTIVE REPAIR
END PROJECT
STA 2+844.605
CSJ: 0918-45-369
BEGIN 28:1 TAPER
N 89° 19' 17" E
Taper Length = 55.0m
LANE DROP
28:1 TAPER
EXISTING ROW
END 28:1 TAPER
ELAM DISCOUNT TIRE
A & B NEW AND USED FURNITURE
Acres Drive
EASEMENT
FRONTIER REVIVAL CENTER
FULL GOSPEL CHURCH
Cheyenne
Elam
Acres
800
1,100
2,000
2,700
10,100
13,700
100
200
400
600
400
600

2001 Traffic
2021 Traffic
Traffic Provided By
North Central Texas
Council of Governments

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ROLL 2 OF 2
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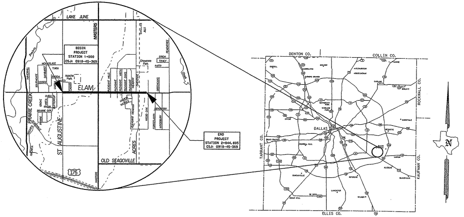
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ROCKWALL CO.
KAUFMAN CO.
ELLIS CO.

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DATE 6/4/2001

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