

4777 EAST US HIGHWAY 80, MESQUITE, TEXAS 75150-6643 | 214-320-6100 | WWW.TXDOT.GOV

February 9, 2017

Control: 2054-02
Highway: FM 2181
County: Denton

Mr. John Davis
City Engineer
City of Denton
215 East McKinney
Denton, TX 76201

Dear Mr. Davis:

Attached for your information and handling is a computer printout of the speed zone study on FM 2181 in the City of Denton. The speed zone study was done after the completion of the reconstruction project and shows that the recommended speeds correspond to the speeds at which the normal and prudent driver is driving under the existing conditions.

To proceed with the changing of the speed limits, TxDOT requires a signed city ordinance matching the zones on the speed study. To assist the City in the preparation of the ordinance, a sample speed zone ordinance has been attached to serve as a guide. Please forward the signed ordinance to our office by March 31, 2017 for further processing. Upon receipt of the ordinance from the City of Denton, TxDOT will furnish and install the necessary signs at the proper locations. Should the City already have an ordinance on file that matches the limits shown on the study, please forward a copy of that to our office for our records.

If we may be of further assistance, please feel free to contact Bahman Afsheen, P.E. at the above address or by telephone at 214-320-6229.

Sincerely,

Andrew R. Oberlander, P.E.
District Transportation Operations Engineer

Attachments

cc: Traffic – Speed Zone Folder
Heard, Area Engineer
AW Oberlander/Cortez
Hudspeth
TF



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Sincerely,

Andrew R. Oberlander, P.E.
District Transportation Operations Engineer

Attachments

OUR VALUES: *People • Accountability • Trust • Honesty*

OUR MISSION: *Through collaboration and leadership, we deliver a safe, reliable, and integrated transportation system that enables the movement of people and goods.*

NO. _____

SPEED ZONE ORDINANCE

AN ORDINANCE ALTERING THE PRIMA FACIE SPEED LIMITS ESTABLISHED FOR VEHICLES UNDER THE PROVISIONS OF TRANSPORTATION CODE, SECTION 545.356 UPON _____ HIGHWAY NO. _____ OR PARTS THEREOF, WITHIN THE INCORPORATE LIMITS OF THE CITY OF _____, AS SET OUT IN THIS ORDINANCE; AND PROVIDING A PENALTY OF A FINE NOT TO EXCEED \$200.00 FOR THE VIOLATION OF THIS ORDINANCE.

WHEREAS, Section 545.356 of the Texas Transportation Code, provides that whenever the governing body of the City shall determine upon the basis of an engineering and traffic investigation that any prima facie speed therein set forth is greater or less than is reasonable or safe under the conditions found to exist at any intersection or other place or upon any part of a street or highway within the City, taking into consideration the width and condition of the pavement and other circumstances on such portion of said street or highway, as well as the usual traffic thereon, said governing body may determine and declare a reasonable and safe prima facie speed limit thereat or thereon by the passage of an ordinance, which shall be effective when appropriate signs giving notice thereof are erected at such intersection or other place or part of the street or highway; NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF _____, TEXAS:

SECTION 1.

Upon the basis of an engineering and traffic investigation heretofore made as authorized by the provisions of Transportation Code, Section 545.356, the following prima facie speed limits hereafter indicated for vehicles on the attached Exhibit "A" (strip map) are hereby determined and declared to be reasonable and safe; and such speed limits are hereby fixed at the rate of speed indicated for vehicles traveling upon the named streets and highways, or parts thereof, described as follows:

- A. BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF _____ TEXAS:
1. That from and after the date of the passage of this speed zone ordinance, no motor vehicle shall be operated along and upon _____ Highway No. _____ within the corporate limits of the City of _____ in excess of speeds now set forth in Exhibit "A".

SECTION 2:

The Mayor of _____ is hereby authorized to cause to be erected, appropriate signs indicating such speed zones.

SECTION 3:

Any person violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor and upon conviction thereof shall be fined in any sum not to exceed Two Hundred Dollars (\$200.00).

PASSED AND APPROVED THIS ____ DAY OF _____, A.D., 20__.

Mayor

City of _____ Texas

Attest:

City Secretary

City of _____ Texas

APPROVED AS TO LEGAL FORM:

APPROVED:

City Attorney

City Manager

City of _____ Texas

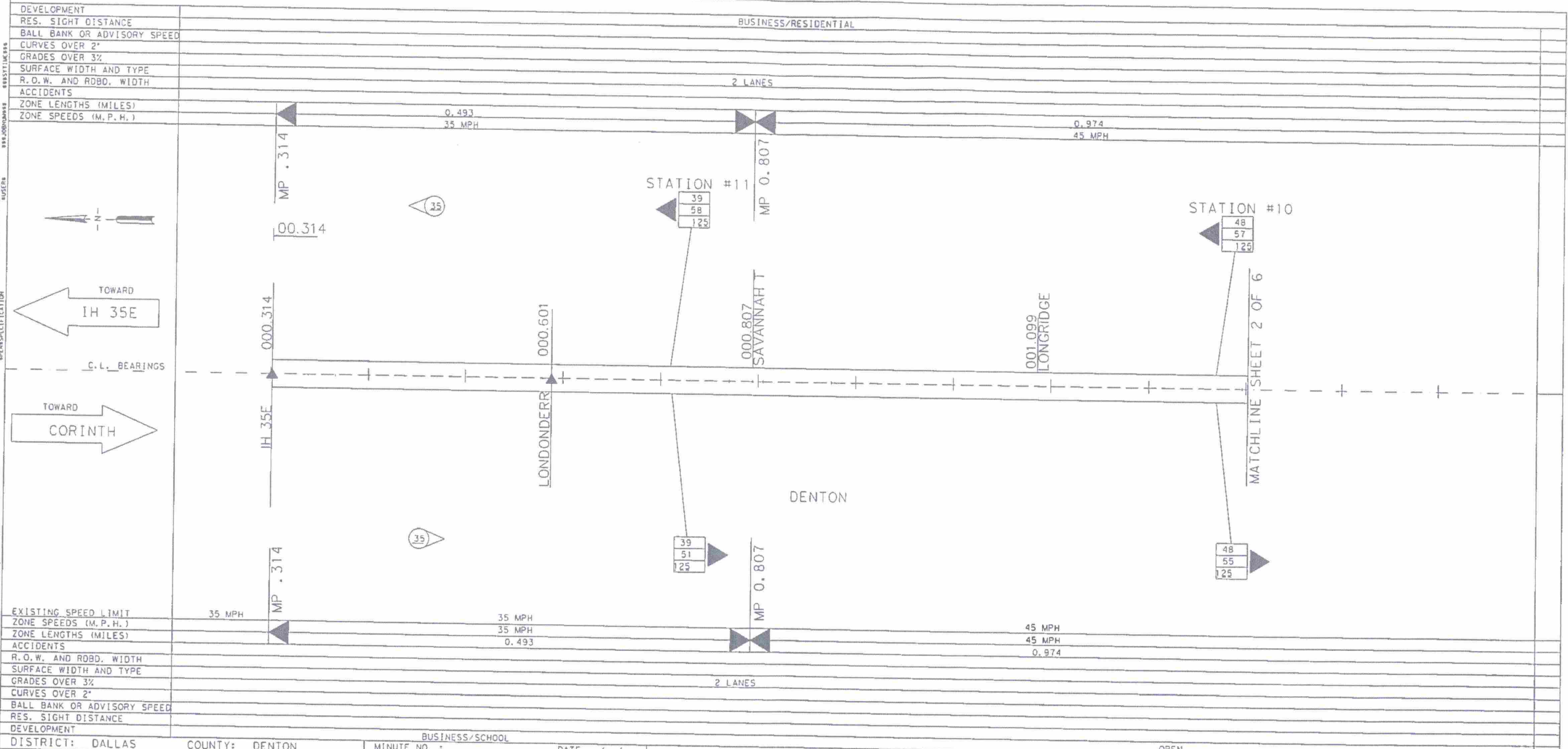
City of _____ Texas

I, _____, City Secretary of the City of _____, Texas, hereby certify that the above and foregoing is a true and correct copy of Ordinance No. _____ adopted by the City Council of the City of _____, Texas, _____, A.D., 20__.
To certify which, witness my hand and seal of office this _____ day of _____, A.D., 20__.

City Secretary

City of _____ Texas

FM 2181



EXISTING SPEED LIMIT	35 MPH
ZONE SPEEDS (M.P.H.)	35 MPH
ZONE LENGTHS (MILES)	0.493
ACCIDENTS	
R.O.W. AND ROBD. WIDTH	
SURFACE WIDTH AND TYPE	2 LANES
GRADES OVER 3%	
CURVES OVER 2"	
BALL BANK OR ADVISORY SPEED	
RES. SIGHT DISTANCE	
DEVELOPMENT	BUSINESS/SCHOOL

DISTRICT: DALLAS	COUNTY: DENTON	MINUTE NO. :	DATE
HIGHWAY: FM 2181	CITY: DENTON	REPLACES :	DATE
DATE OF STUDY 09-30-16	SCALE 1" = 0.1 MILES	REPLACED BY :	DATE
		CANCELLED BY :	DATE

LIMITS OF ZONE			
SECTION ONE		SECTION TWO	
BEGINS	ENDS	BEGINS	ENDS
STA. OR M.P.	CONT. AND SECT.	STA. OR M.P.	CONT. AND SECT.
MP 0 + 00	()	MP	()
STA. OR M.P.	CONT. AND SECT.	STA. OR M.P.	CONT. AND SECT.
MP 0 + 00	()	MP	()

- 42 85 PERCENTILE SPEED
- 62 TOP SPEED MEASURED
- 125 NUMBER OF CARS CHECKED
- FATAL ACCIDENT
- PERSONAL INJURY ACCIDENT
- PROPERTY DAMAGE ACCIDENT
- INDICATES SECTION ZONED BY COMMISSION MINUTE
- ▲ SIGNALIZED INTERSECTION
- TRIAL RUN

SPEED ZONE
 CONT. 2054 SEC. 02
 LIMITS: FROM E. CITY LIMITS OF DENTON TO IH 35E

SHEET 1 OF 6

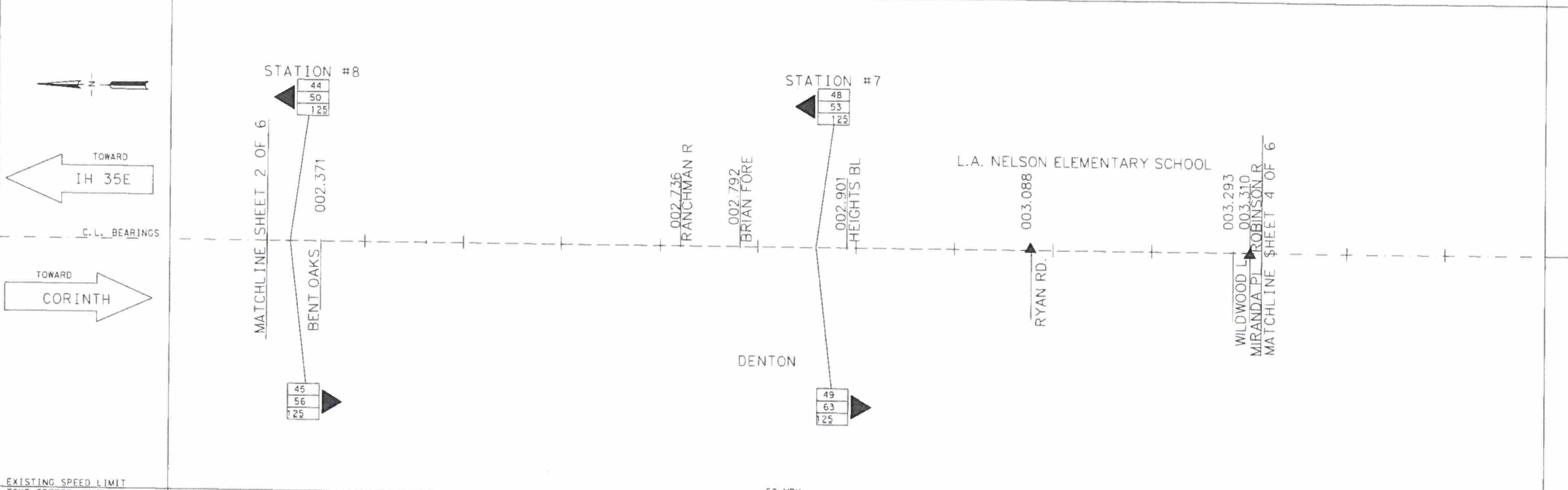
Texas Department of Transportation

**SPEED STUDY
DENTON COUNTY
FM 2181**

DESIGN TEAM	FED. AID PROJECT NO.	SHEET NO.
STATE	STATE DIST. NO.	COUNTY
CHECKED	CONTROL NO.	SECTION NO. JOB NO. HIGHWAY NO.

PROJECT NO. 0000000000
 DRAWING NO. 0000000000
 SHEET NO. 0000000000
 DATE 09-30-16
 SCALE 1" = 0.1 MILES
 PROJECT SPECIFICATION
 PROJECT LOCATION
 PROJECT DESCRIPTION
 PROJECT CONTRACT NO.
 PROJECT CONTRACT DATE
 PROJECT CONTRACT VALUE
 PROJECT CONTRACT TYPE
 PROJECT CONTRACT STATUS
 PROJECT CONTRACT OWNER
 PROJECT CONTRACT AGENT
 PROJECT CONTRACT ADDRESS
 PROJECT CONTRACT PHONE
 PROJECT CONTRACT FAX
 PROJECT CONTRACT EMAIL
 PROJECT CONTRACT WEBSITE
 PROJECT CONTRACT CONTACT
 PROJECT CONTRACT CONTACT TITLE
 PROJECT CONTRACT CONTACT ADDRESS
 PROJECT CONTRACT CONTACT PHONE
 PROJECT CONTRACT CONTACT FAX
 PROJECT CONTRACT CONTACT EMAIL
 PROJECT CONTRACT CONTACT WEBSITE
 PROJECT CONTRACT CONTACT WEBSITE
 PROJECT CONTRACT CONTACT WEBSITE

DEVELOPMENT	BUSINESS/RESIDENTIAL
RES. SIGHT DISTANCE	
BALL BANK OR ADVISORY SPEED	
CURVES OVER 2'	
GRADES OVER 3%	
SURFACE WIDTH AND TYPE	1 LANE
R.O.W. AND RDBD. WIDTH	
ACCIDENTS	
ZONE LENGTHS (MILES)	3.470
ZONE SPEEDS (M.P.H.)	45 MPH



EXISTING SPEED LIMIT	50 MPH
ZONE SPEEDS (M.P.H.)	45 MPH
ZONE LENGTHS (MILES)	3.470
ACCIDENTS	
R.O.W. AND RDBD. WIDTH	
SURFACE WIDTH AND TYPE	1 LANE
GRADES OVER 3%	
CURVES OVER 2'	
BALL BANK OR ADVISORY SPEED	
RES. SIGHT DISTANCE	
DEVELOPMENT	OPEN

DISTRICT: DALLAS	COUNTY: DENTON	MINUTE NO. :	DATE / /
HIGHWAY: FM 2181	CITY: DENTON	REPLACES :	DATE / /
DATE OF STUDY 09-30-16	SCALE 1" = 0.1 MILES	REPLACED BY :	DATE / /
		CANCELLED BY :	DATE / /

LIMITS OF ZONE							
SECTION ONE				SECTION TWO			
BEGINS	STA. OR M.P.	CONT. AND SECT.	PROJECT	BEGINS	STA. OR M.P.	CONT. AND SECT.	PROJECT
	0 + 00	-	()		+	-	()
	MP				MP		
ENDS	STA. OR M.P.	CONT. AND SECT.	PROJECT	ENDS	STA. OR M.P.	CONT. AND SECT.	PROJECT
	0 + 00	-	()		+	-	()
	MP				MP		

- 42 85 PERCENTILE SPEED
- 62 TOP SPEED MEASURED
- 125 NUMBER OF CARS CHECKED
- FATAL ACCIDENT
- PERSONAL INJURY ACCIDENT
- PROPERTY DAMAGE ACCIDENT
- INDICATES SECTION ZONED BY COMMISSION MINUTE
- ▲ SIGNALIZED INTERSECTION
- TRIAL RUN

SPEED ZONE

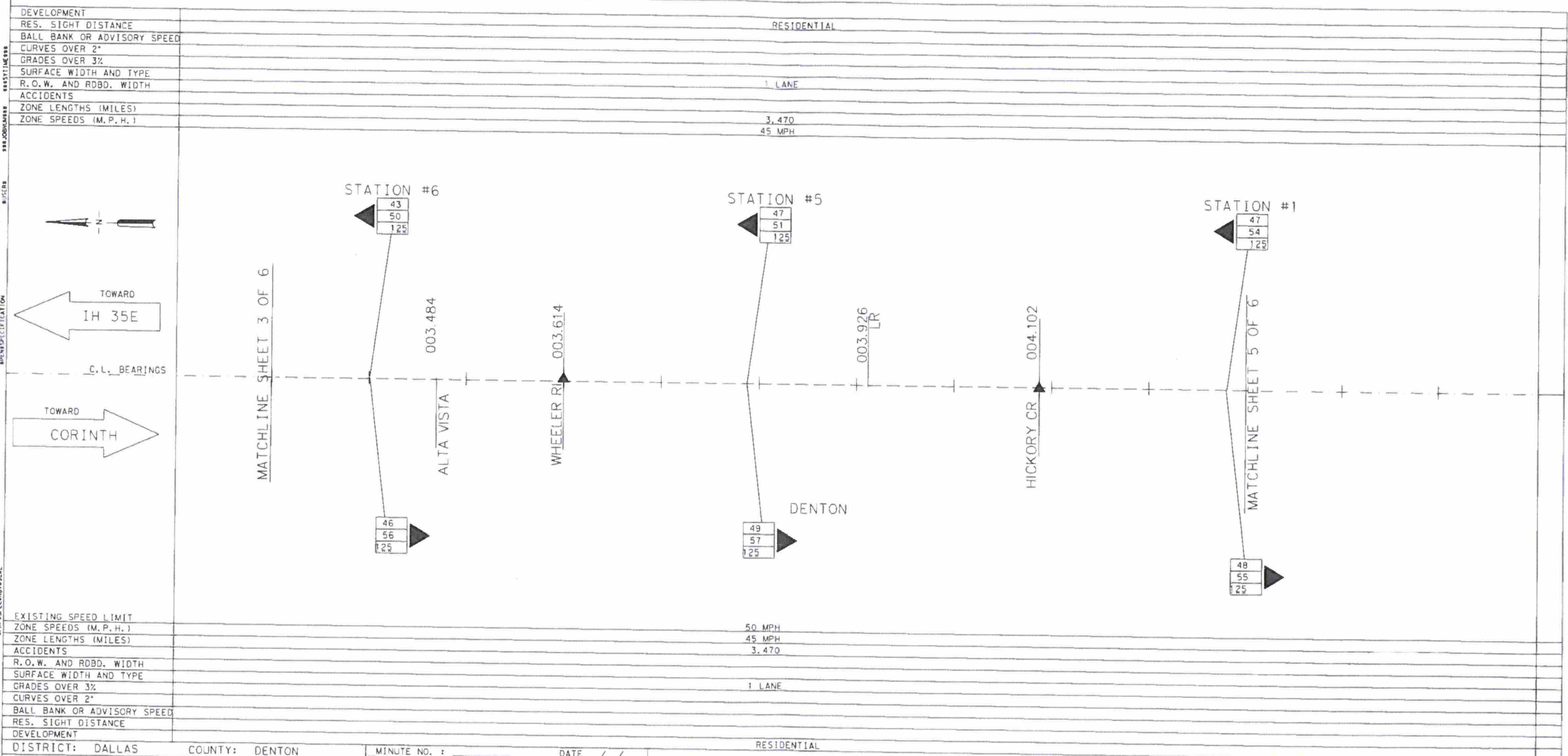
CONT. 2054 SEC. 02
LIMITS: FROM E. CITY LIMITS OF DENTON TO IH 35E

SHEET 3 OF 6

Texas Department of Transportation

SPEED STUDY
DENTON COUNTY
FM 2181

DESIGN TEAM	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	STATE DIST. NO.	COUNTY	
CHECKED	CONTROL NO.	SECTION NO.	JOB NO.
			HIGHWAY NO.



EXISTING SPEED LIMIT	
ZONE SPEEDS (M.P.H.)	50 MPH
ZONE LENGTHS (MILES)	45 MPH
ACCIDENTS	3.470
R.O.W. AND RDBD. WIDTH	
SURFACE WIDTH AND TYPE	1 LANE
GRADES OVER 3%	
CURVES OVER 2"	
BALL BANK OR ADVISORY SPEED	
RES. SIGHT DISTANCE	
DEVELOPMENT	RESIDENTIAL

DISTRICT: DALLAS	COUNTY: DENTON	MINUTE NO. :	DATE / /
HIGHWAY: FM 2181	CITY: DENTON	REPLACES :	DATE / /
DATE OF STUDY 09-30-16	SCALE 1" = 0.1 MILES	REPLACED BY :	DATE / /
		CANCELLED BY :	DATE / /

LIMITS OF ZONE							
SECTION ONE				SECTION TWO			
BEGINS	STA. OR M.P.	CONT. AND SECT.	PROJECT	BEGINS	STA. OR M.P.	CONT. AND SECT.	PROJECT
	0 + 00		()				()
	MP				MP		
ENDS	STA. OR M.P.	CONT. AND SECT.	PROJECT	ENDS	STA. OR M.P.	CONT. AND SECT.	PROJECT
	0 + 00		()				()
	MP				MP		

- | |
|-----|
| 42 |
| 62 |
| 125 |

 85 PERCENTILE SPEED
 TOP SPEED MEASURED
 NUMBER OF CARS CHECKED
- FATAL ACCIDENT
- PERSONAL INJURY ACCIDENT
- PROPERTY DAMAGE ACCIDENT
- INDICATES SECTION ZONED BY COMMISSION MINUTE
- ▲ SIGNALIZED INTERSECTION
- TRIAL RUN

SPEED ZONE
 CONT. 2054 SEC. 02
 LIMITS: FROM E. CITY LIMITS OF
 DENTON TO IH 35E

SHEET 4 OF 6

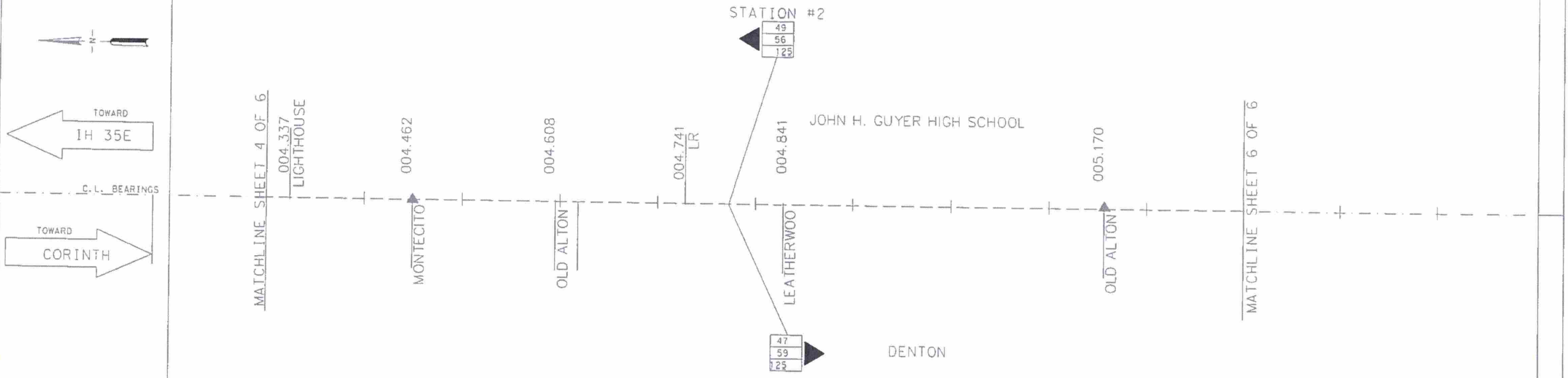
Texas Department of Transportation

SPEED STUDY
DENTON COUNTY
FM 2181

DESIGN TEAM	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	STATE	STATE DIST. NO.	COUNTY
CHECKED	CONTROL NO.	SECTION NO.	JOB NO. HIGHWAY NO.

FM 2181

DEVELOPMENT	OPEN	SCHOOL	RESIDENTIAL
RES. SIGHT DISTANCE			
BALL BANK OR ADVISORY SPEED			
CURVES OVER 2"		2292'	
GRADES OVER 3%		OTHER TIMES	
SURFACE WIDTH AND TYPE	1 LANE	45 MPH ALL	
R.O.W. AND RDBD. WIDTH		BOTH DIRECTIONS	1 LANE
ACCIDENTS		SIGNED FOR	
ZONE LENGTHS (MILES)	3.470	30 MPH WHEN 50	
ZONE SPEEDS (M.P.H.)	45 MPH	SCHOOL ZONE	3.470
		45 MPH	45 MPH
		SPEED LIMIT=50 MPH	



EXISTING SPEED LIMIT	50 MPH	SPEED LIMIT=50 MPH	50 MPH
ZONE SPEEDS (M.P.H.)	45 MPH	45 MPH	45 MPH
ZONE LENGTHS (MILES)	3.470	SCHOOL ZONE	3.470
ACCIDENTS		30 MPH WHEN 50	
R.O.W. AND RDBD. WIDTH		SIGNED FOR	1 LANE
SURFACE WIDTH AND TYPE	1 LANE	BOTH DIRECTIONS	
GRADES OVER 3%		45 MPH ALL	
CURVES OVER 2"		OTHER TIMES	
BALL BANK OR ADVISORY SPEED		2292'	
RES. SIGHT DISTANCE			
DEVELOPMENT	OPEN	SCHOOL	BUSINESS

DISTRICT: DALLAS COUNTY: DENTON
 HIGHWAY: FM 2181 CITY: DENTON
 DATE OF STUDY 09-30-16 SCALE 1" = 0.1 MILES

LIMITS OF ZONE			
SECTION ONE	LENGTH	MILES	SECTION TWO
BEGINS	STA. OR M.P.	CONT. AND SECT.	PROJECT
	0 + 00		
ENDS	0 + 00		

42 85 PERCENTILE SPEED
52 TOP SPEED MEASURED
125 NUMBER OF CARS CHECKED
 ● FATAL ACCIDENT
 ○ PERSONAL INJURY ACCIDENT
 ○ PROPERTY DAMAGE ACCIDENT
 — INDICATES SECTION ZONED BY COMMISSION MINUTE
 ▲ SIGNALIZED INTERSECTION
 ○ TRIAL RUN

SPEED ZONE

CONT. 2054 SEC. 02
 LIMITS: FROM E. CITY LIMITS OF DENTON TO IH 35E

SHEET 5 OF 6

Texas Department of Transportation

SPEED STUDY
DENTON COUNTY
FM 2181

DESIGN TEAM	FED. NO. DIV. NO.	FEDERAL AID PROJECT NO.	SHEET NO.
CHECKED	STATE DIST. NO.	COUNTY	
	CONTROL NO.	SECTION NO.	JOB NO.
			HIGHWAY NO.

Deshmukh, Pritam

From: Bahman Afsheen <Bahman.Afsheen@txdot.gov>
Sent: Tuesday, April 25, 2017 10:32 AM
To: Deshmukh, Pritam
Cc: Roxanne Cortez
Subject: RE: FM 2181-Denton County

Pritam,

Per our phone conversation and your request, you can move the 40 mph speed limit 500' west of Pennsylvania Dr. on FM 2181 to cover the sidewalk. Please let me know if you need additional information. Please send us the city ordinance whenever they are available.

Thank you,
Bahman

From: Deshmukh, Pritam [mailto:Pritam.Deshmukh@cityofdenton.com]
Sent: Friday, December 16, 2016 4:19 PM
To: Bahman Afsheen
Subject: RE: FM 2181-Denton County

Thank you Bahman, I really appreciate your help in this.

Happy Holidays.
Pritam

From: Bahman Afsheen [mailto:Bahman.Afsheen@txdot.gov]
Sent: Friday, December 16, 2016 3:49 PM
To: Deshmukh, Pritam <Pritam.Deshmukh@cityofdenton.com>
Subject: RE: FM 2181-Denton County

Hello Pritam,

We sent the study to Austin for reconsideration.

Thank you,

*Bahman Afsheen, P.E.
Dallas District-Transportation Operations
4625 East Highway 80
Mesquite, TX 75150
Ph. 214-320-6229
Bahman.Afsheen@txdot.gov*

From: Deshmukh, Pritam [mailto:Pritam.Deshmukh@cityofdenton.com]
Sent: Wednesday, December 07, 2016 2:45 PM
To: Bahman Afsheen
Cc: Tina Massey; Roxanne Cortez; Davis, John T.
Subject: RE: FM 2181-Denton County