



Frisco's Crash Analysis Software



TexITE 2012 Fall Meeting
Fort Worth, Texas
August 29, 2012

Brian Moen, P.E. & Robert Caskey, EIT

Presentation Overview

- Crash Data Process Prior to Purchase of MS2 Software
- Development of RFP
- Software Demo



Crash Data Process Prior to MS2

- 2003 - Access Database
 - Enter data from crash report
 - Add vehicle direction and crash type
 - Scan of report attached to record
- Limited query capability
- No automated collision diagram
- Time Intensive to analyze crash data
- Reactive rather than Proactive



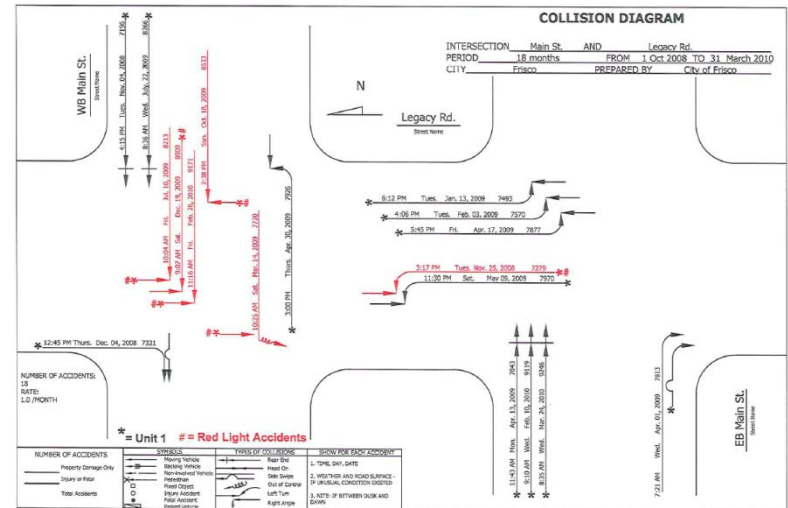
Development of RFP

- Start June 2010
- Issue RFP October 2010
- 60 Functional Requirements
 - Collision Diagram Requirements
 - Reporting Requirements
 - GIS Requirements
 - Technical Requirements



Development of RFP

- Goals
 - Work with existing data (over 10,000 records)
 - Take in new crash data
 - Automatically generate collision diagrams
 - Engineering and Police can use
 - Mapping of Crashes
 - Off the shelf system





PROGRESS IN MOTION

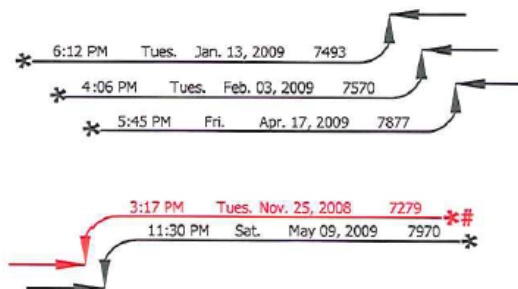
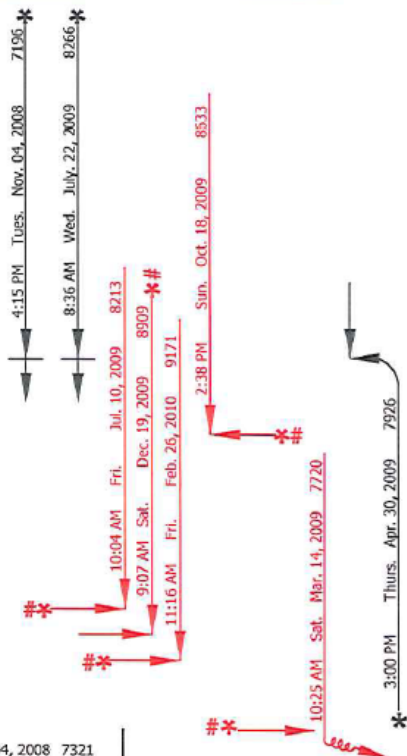
COLLISION DIAGRAM

INTERSECTION Main St. AND Legacy Rd.
 PERIOD 18 months FROM 1 Oct 2008 TO 31 March 2010
 CITY Frisco PREPARED BY City of Frisco

N

Legacy Rd.
Street Name

WB Main St.
Street Name



EB Main St.
Street Name

NUMBER OF ACCIDENTS:
18
RATE:
1.0 /MONTH

* = Unit 1 # = Red Light Accidents

NUMBER OF ACCIDENTS	SYMBOLS	TYPES OF COLLISIONS	SHOW FOR EACH ACCIDENT
Property Damage Only		Rear End	1. TIME, DAY, DATE
Injury or Fatal		Head On	2. WEATHER AND ROAD SURFACE - IF UNUSUAL CONDITION EXISTED
Total Accidents		Side Swipe	3. NITE- IF BETWEEN DUSK AND DAWN
		Out of Control	
		Left Turn	
		Right Angle	



Selection

- Awarded contract to MS2 for the Crash Module
- Cost was \$25,000
- Annual support cost is \$5,000
- Purchase made using Automated Red Light Enforcement Funds



Current Status

- TxDOT CRIS Data
 - Want officers to enter data directly into system
 - TxDOT will help pay for MS2 to develop interface to accept data from CRIS
 - Can get xml dump weekly
 - Can eliminate our data entry
- Richardson piggy back on contract
- Developing First Annual Crash Summary



PROGRESS IN MOTION

Software Demo



Brian Moen, P.E.

Assistant Director of Engineering

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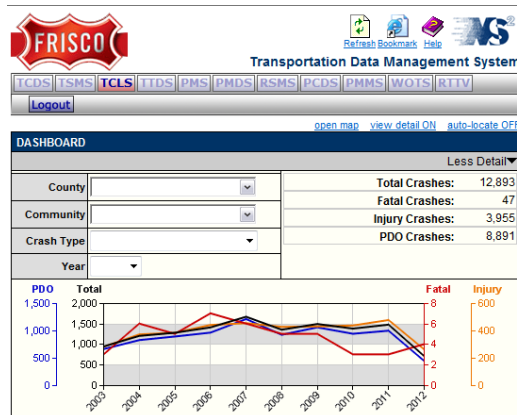
Robert Caskey

Traffic EIT

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rcaskey@friscotexas.gov

Dashboard



OPTION 1 - SEARCH BY MAP

Use the Map Tools to zoom to an area. Then click a marker or Select by Polygon to review locations, crashes and stats. Markers may not show up until zooming in closer.

OPTION 2 - SEARCH BY DATA - TCLS

Select search criteria below, then click the "Search" button.

Search By	<input checked="" type="radio"/> Study Location <input type="radio"/> Crash Data
County	Collin
Community	- Select Community -
Type	ALL
Located On ¹	<input checked="" type="checkbox"/> Exact Match
Crossroad ¹	<input checked="" type="checkbox"/> Exact Match

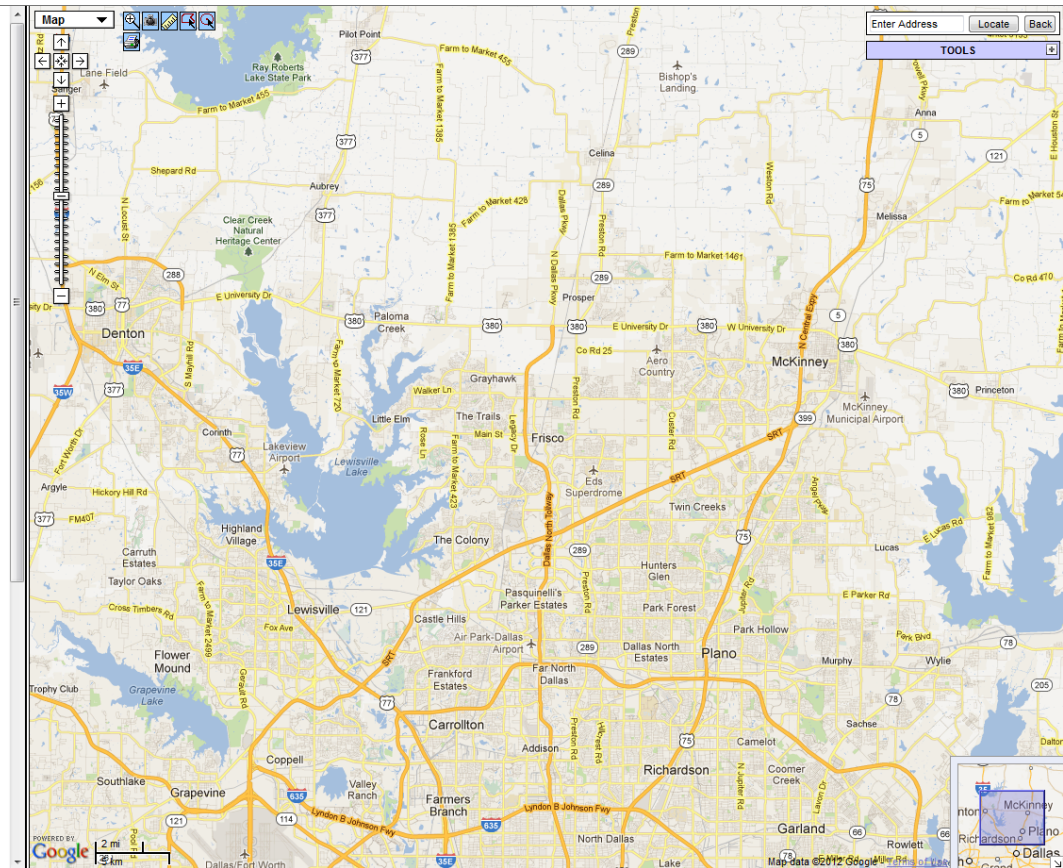
More Detail

Search Load Search Build Search Reset Search Report List New Report SQL

¹ - Enter all or part of the road name. You can exclude prefixes and suffixes like "NW", "S", "Rd", "St", "Ln".

[Click Here](#) for the TCLS quick help reference guide (9mb PDF)

This site is powered by **MS2** with its headquarters in Ann Arbor, Michigan. [Click here to get more information.](#)



Left Turn



Transportation Data Management System

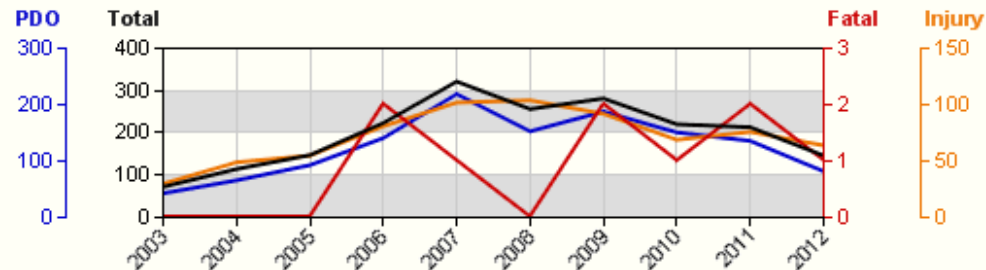
TCDS	TSMS	TCLS	TTDS	PMS	PMDS	RSMS	PCDS	PMMS	WOTS	RTTV
Logout										

[open map](#) [view detail ON](#) [auto-locate OFF](#)

DASHBOARD

[Less Detail](#) ▼

County	<input type="text"/>	Total Crashes:	1,973
Community	<input type="text"/>	Fatal Crashes:	9
Crash Type	Left Turn	Injury Crashes:	712
Year	<input type="text"/>	PDO Crashes:	1,252



Study Location



Transportation Data Management System

TCDS	TSMS	TCLS	TTDS	PMS	PMDS	RSMS	PCDS	PMMS	WOTS	RTTV
Logout										

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[view detail ON](#)
[auto-locate OFF](#)

DASHBOARD

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More Detail ▶									
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Search	Load Search	Build Search	Reset Search	Report List	New Report	SQL			

Study Location



Refresh Bookmark Help

Transportation Data Management System

TCDS TSMS Home TTDS PMS PMDS RSMS PCDS PMMS WOTS RTTV

Logout + Locate + Locate All

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Crash View

List View Build Search Load Search Save Search Default Report Report List New Report

Study Location Crash Search

Record 1 of 449 Goto Record go

Location ID 1 Type CRASH_INT

Located On FM 423 [Corridor](#)

At Road US 380 [Corridor](#)

Road 3

Road 4

Road 5

PR	MP	PT

Community 1 Frisco Mid Latitude 33.218920

Community 2 Mid Longitude -96.880120

Community 3 Crash Buffer 250 ft

County Denton Stop Sign Control

Jurisdiction Category

State TX Control Type

Super Node? No Super ID

Roundabout? No Signalized? Yes

Intersection Legs Traffic Signal ID



CRASH STATISTICS SUMMARY			
Fatality (K)	0	Traffic Volume (Per Day)	43,142
Incapacitating Injury (A)	0	Crash Rate (Per MEV)	0.95
Non-Incapacitating Injury (B)	6	Severity Rate	1.38
Possible Injury (C)	4		
Total Injury Crashes	10		
Property Damage Only (PDO)	35		
Pedestrian Involved	0		
Number of Crashes	45		

2011 2010 2009 3-Year

Other Years :

CRASH CASES

View Loc Report Collision Map Map Surrounding Crashes

Icon Legend:  - Successfully located  - Matches multiple locations or not located

Report List



Transportation Data Management System

[Back](#)

PRESET REPORT LIST

Current Search Options

STATE: TX

STAT_YEAR: 2011

IS_SIGNALIZED: 1

GENERAL

Report Name	Data Fields	Action
High 25 Frequency Locations	Road, Cross Street, ADT, Frequency Sort by: Frequency descending	
High 25 Severity Locations	Road, Cross Street, ADT, Fatalities, Injuries, Severity Rate Sort by: Severity descending	
Pedestrian Accident Locations	Road, Cross Street, Frequency, Fatalities, Injuries, Severity Rate Sort by: Frequency descending	
Accident Type Tally	Road, Cross Street, Fatalities, Injuries, Accident Types Sort by: Location	
High 50 Frequency Locations	Road, Cross Street, ADT, Fatalities, Injuries, Property Damage, Frequency Sort by: Frequency descending	Signalized Unsignalized Segment
High 50 Rate Locations	Road, Cross Street, ADT, Fatalities, Injuries, Property Damage, Rate Sort by: Rate descending	Signalized Unsignalized Segment
High 50 Severity Locations	Road, Cross Street, ADT, Fatalities, Injuries, Property Damage, Severity Rate Sort by: Severity descending	Signalized Unsignalized Segment
Frequency Locations	Road, Cross Street, ADT, Fatalities, Injuries, Property Damage, Frequency Sort by: Frequency descending	Signalized Unsignalized Segment
Rate Locations	Road, Cross Street, ADT, Fatalities, Injuries, Property Damage, Rate Sort by: Rate descending	Signalized Unsignalized Segment
Severity Locations	Road, Cross Street, ADT, Fatalities, Injuries, Property Damage, Severity Rate Sort by: Severity descending	Signalized Unsignalized Segment
Crash Report	Mixed report set including: Location(s), Statistics, Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Statistics Report	Graph report set including: Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Comparison Report	Graph report set including: Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Comparison Report (last 2 searches)	Graph report set including: Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Collision Diagram	Graphical display of Crash Types, Directions, and Action Codes	
Crash Data Export	Exports all Crash data to Excel	
Study Location Data Export	Exports all Study Location data to Excel	



Frequency



Transportation Data Management System

High 50 Crash Frequency - Intersections (Signalized)

ID	Community	On Road	Crossroad	Year	ADT	Total	F	I	PD
128	Frisco	Preston Road	Stonebrook Parkway	3-Year	60,880	76	0	25	51
6	Frisco	FM 423	Main Street	3-Year	48,542	63	1	16	46
418	Frisco	Dallas Parkway	Main Street	3-Year	66,461	61	0	18	43
406	Frisco	Dallas Parkway	US 380	3-Year	48,409	56	1	22	33
132	Frisco	Preston Road	Lebanon Road	3-Year	71,563	55	0	13	42
110	Frisco	Parkwood Boulevard	SH 121	3-Year	37,681	54	0	13	41
445	Frisco	Preston Road	SH 121	3-Year	58,928	53	0	12	41
125	Frisco	Preston Road	Gary Burns Drive	3-Year	49,693	52	0	22	30
436	Frisco	Dallas Parkway	SH 121	3-Year	50,024	48	0	18	30
415	Frisco	Dallas Parkway	Eldorado Parkway	3-Year	34,474	46	0	16	30
420	Frisco	Dallas Parkway SB	Main Street	3-Year	30,561	45	0	10	35
1	Frisco	FM 423	US 380	3-Year	43,142	45	0	10	35
124	Frisco	Preston Road	Main Street	3-Year	53,230	45	0	11	34
82	Frisco	Legacy Drive	SH 121	3-Year	46,897	44	0	19	25
137	Frisco	Preston Road	Gaylord Parkway	3-Year	77,444	44	0	6	38
12	Frisco	FM 423	Lebanon Road	3-Year	33,748	43	0	14	29
136	Frisco	Preston Road	Warren Parkway	3-Year	67,768	40	0	9	31
70	Frisco	Legacy Drive	Lebanon Road	3-Year	34,078	39	0	10	29
118	Frisco	Preston Road	Eldorado Parkway	3-Year	31,227	37	0	14	23
442	Frisco	Preston Road	US 380	3-Year	0	37	0	14	23
217	Frisco	Independence Parkway	SH 121	3-Year	30,532	36	0	16	20
130	Frisco	Preston Road	Wade Boulevard	3-Year	54,916	36	0	14	22
29	Frisco	Teel Parkway	Main Street	3-Year	43,276	34	0	8	26
439	Frisco	Legacy Drive	Main Street Super	3-Year	46,487	32	0	11	21
446	Frisco	Preston Frontage Road NB	SH 121	3-Year	47,591	32	0	7	25
228	Frisco	Custer Road	SH 121	3-Year	49,994	30	0	9	21
417	Frisco	Dallas Parkway SB	Eldorado Parkway	3-Year	15,379	30	0	8	22
408	Frisco	Dallas Parkway SB	US 380	3-Year	17,366	30	0	12	18



Crash Rate (per MEV)



Transportation Data Management System

High 50 Crash Rate - Intersections (Signalized)

ID	Community	On Road	Crossroad	Year	ADT	Total	F	I	PD	Rate
417	Frisco	Dallas Parkway SB	Eldorado Parkway	3-Year	15,379	30	0	8	22	1.781
438	Frisco	Dallas Parkway SB	SH 121	3-Year	14,303	27	0	9	18	1.724
447	Frisco	Preston Frontage Road SB	SH 121	3-Year	11,337	21	0	5	16	1.692
408	Frisco	Dallas Parkway SB	US 380	3-Year	17,366	30	0	12	18	1.578
413	Frisco	Dallas Parkway NB	Panther Creek Parkway	3-Year	2,633	4	0	2	2	1.387
420	Frisco	Dallas Parkway SB	Main Street	3-Year	30,561	45	0	10	35	1.345
110	Frisco	Parkwood Boulevard	SH 121	3-Year	37,681	54	0	13	41	1.309
415	Frisco	Dallas Parkway	Eldorado Parkway	3-Year	34,474	46	0	16	30	1.219
6	Frisco	FM 423	Main Street	3-Year	48,542	63	1	16	46	1.185
12	Frisco	FM 423	Lebanon Road	3-Year	33,748	43	0	14	29	1.164
141	Frisco	Mall Road F	Gaylord Parkway	3-Year	19,713	25	0	8	17	1.158
128	Frisco	Preston Road	Stonebrook Parkway	3-Year	60,880	76	0	25	51	1.140
118	Frisco	Preston Road	Eldorado Parkway	3-Year	31,227	37	0	14	23	1.082
217	Frisco	Independence Parkway	SH 121	3-Year	30,532	36	0	16	20	1.077
406	Frisco	Dallas Parkway	US 380	3-Year	48,409	56	1	22	33	1.056
70	Frisco	Legacy Drive	Lebanon Road	3-Year	34,078	39	0	10	29	1.045
443	Frisco	Preston Road NB	US 380	3-Year	21,548	24	0	10	14	1.017
125	Frisco	Preston Road	Gary Burns Drive	3-Year	49,693	52	0	22	30	0.956
171	Frisco	Hillcrest Road	Rotler Road	3-Year	20,118	21	0	4	17	0.953
1	Frisco	FM 423	US 380	3-Year	43,142	45	0	10	35	0.953
436	Frisco	Dallas Parkway	SH 121	3-Year	50,024	48	0	18	30	0.876
440	Frisco	Legacy Drive	Main Street WB	3-Year	24,348	23	0	9	14	0.863
435	Frisco	Dallas Parkway SB	Gaylord Parkway	3-Year	10,616	10	0	5	5	0.860
82	Frisco	Legacy Drive	SH 121	3-Year	46,897	44	0	19	25	0.857
418	Frisco	Dallas Parkway	Main Street	3-Year	66,461	61	0	18	43	0.838
445	Frisco	Preston Road	SH 121	3-Year	58,928	53	0	12	41	0.821
220	Frisco	Custer Road	Eldorado Parkway	3-Year	28,229	25	0	10	15	0.809



Severity



Transportation Data Management System

High 50 Crash Severity - Intersections (Signalized)

ID	Community	On Road	Crossroad	Year	ADT	Total	F	I	PD	SEV
438	Frisco	Dallas Parkway SB	SH 121	3-Year	14,303	27	0	9	18	2.873
408	Frisco	Dallas Parkway SB	US 380	3-Year	17,366	30	0	12	18	2.840
413	Frisco	Dallas Parkway NB	Panther Creek Parkway	3-Year	2,633	4	0	2	2	2.775
417	Frisco	Dallas Parkway SB	Eldorado Parkway	3-Year	15,379	30	0	8	22	2.732
447	Frisco	Preston Frontage Road SB	SH 121	3-Year	11,337	21	0	5	16	2.497
406	Frisco	Dallas Parkway	US 380	3-Year	48,409	56	1	22	33	2.094
415	Frisco	Dallas Parkway	Eldorado Parkway	3-Year	34,474	46	0	16	30	2.066
217	Frisco	Independence Parkway	SH 121	3-Year	30,532	36	0	16	20	2.034
6	Frisco	FM 423	Main Street	3-Year	48,542	63	1	16	46	1.994
420	Frisco	Dallas Parkway SB	Main Street	3-Year	30,561	45	0	10	35	1.942
110	Frisco	Parkwood Boulevard	SH 121	3-Year	37,681	54	0	13	41	1.939
12	Frisco	FM 423	Lebanon Road	3-Year	33,748	43	0	14	29	1.921
118	Frisco	Preston Road	Eldorado Parkway	3-Year	31,227	37	0	14	23	1.901
141	Frisco	Mall Road F	Gaylord Parkway	3-Year	19,713	25	0	8	17	1.899
128	Frisco	Preston Road	Stonebrook Parkway	3-Year	60,880	76	0	25	51	1.890
443	Frisco	Preston Road NB	US 380	3-Year	21,548	24	0	10	14	1.865
125	Frisco	Preston Road	Gary Burns Drive	3-Year	49,693	52	0	22	30	1.764
435	Frisco	Dallas Parkway SB	Gaylord Parkway	3-Year	10,616	10	0	5	5	1.721
407	Frisco	Dallas Parkway NB	US 380	3-Year	31,043	26	1	10	15	1.677
82	Frisco	Legacy Drive	SH 121	3-Year	46,897	44	0	19	25	1.597
70	Frisco	Legacy Drive	Lebanon Road	3-Year	34,078	39	0	10	29	1.581
440	Frisco	Legacy Drive	Main Street WB	3-Year	24,348	23	0	9	14	1.538
436	Frisco	Dallas Parkway	SH 121	3-Year	50,024	48	0	18	30	1.534
416	Frisco	Dallas Parkway NB	Eldorado Parkway	3-Year	19,095	16	0	8	8	1.530
220	Frisco	Custer Road	Eldorado Parkway	3-Year	28,229	25	0	10	15	1.456
1	Frisco	FM 423	US 380	3-Year	43,142	45	0	10	35	1.376
418	Frisco	Dallas Parkway	Main Street	3-Year	66,461	61	0	18	43	1.333
171	Frisco	Hillcrest Road	Roteler Road	3-Year	20,118	21	0	4	17	1.316

$$\text{Severity Rate} = (12K + 3(A+B+C)+PDO)*1,000,000/(\text{Traffic})$$

Build Search



Transportation Data Management System

TCDS	TSMS	TCLS	TTDS	PMS	PMDS	RSMS	PCDS	PMMS	WOTS	RTTV
Logout										

[open map](#)
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DASHBOARD

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Search By	<input type="radio"/> Study Location <input checked="" type="radio"/> Crash Data		
County	<input type="text"/> ▼		
Community	<input type="text"/> ▼		
Located On ¹	<input type="text"/> ▼	<input checked="" type="checkbox"/> Exact Match	
Crossroad ¹	<input type="text"/> ▼	<input checked="" type="checkbox"/> Exact Match	

[More Detail](#) ▶

Search	Load Search	Build Search	Reset Search	Report List	New Report	SQL
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Speed Limit Search



Transportation Data Management System

SEARCH CRASH DATA

Enter search criteria below. Then click the "Search" button.

Speed Limit Min: 20 Max: 20
Enter both, "Min" or "Max" for number range.

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

-- Select Search Field --

Search

Regular Search

Reset

Go to Location Build Search

20 MPH Search



Refresh Bookmark Help 

Transportation Data Management System

TCDS TSMS Home TTDS PMS PMDS RSMS PCDS PMMS WOTS RTTV

Logout + Locate + Locate All

[open map](#) [view detail ON](#) [auto-locate OFF](#)

List View Build Search Load Search Save Search Report List New Report

Crash Data

Record 1 of 90 Goto Record go

Crash ID	10123	Needs Locating?	Yes
Location ID			
State	TX	Latitude	33.107940
County	Collin	Longitude	-96.813350
City/Township	Frisco	Distance	1000 ft
Primary Block No.	8404	Direction	West
Primary Street	Warren Parkway		
Inter. Block No.	8404		
Intersecting Road	Legendary Drive		
Private Property?	Yes		

General Crash Information

Report

Crash Report No.
2010053632

Crash Report Year
2010

Crash Date
Thursday, June 10, 2010

Crash Time
9:00 AM

Injury

Level	Fatalities	Incap. Injuries	Non-Incap. Injuries	Possible Injuries	Total Injuries
PDO	0	0	0	2	2

Roadway

Traffic Control	Light				
None	Daylight				
Road Condition	Road Surface	Primary Speed Limit	Intersecting Speed Limit	Prim.Rd Construction	Inter.Rd Construction
Dry	Concrete	20		No	No

Circumstances

Crash Type	Intersection Related	#Vehicles Involved	Weather	# Peds	Red Light Running
Parking Lot	No	2	Clear	0	No

Narrative

Unit 2 parked in parking space at 8404 Warren Pkwy. Unit 1 backed out of parking space two spaces to the east of Unit 2 at 8404 Warren Pkwy. Unit 1 pulled forward and hit Unit 2 and then drove away without leaving the required information. Witness- Kenneth Alexander (09/24/1961) 214-202-3853

Crash Data



Transportation Data Management System

TCDs	TSMS	TCLS	TTDS	PMS	PMDS	RSMS	PCDS	PMMS	WOTS	RTTV
Logout										

[open map](#) [view detail ON](#) [auto-locate OFF](#)

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More Detail ▶

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Community	<input type="text"/>								
Located On ¹	<input type="text" value="PRESTON ROAD"/>	<input checked="" type="checkbox"/> Exact Match							
Crossroad ¹	<input type="text" value="Lebanon Road"/>	<input checked="" type="checkbox"/> Exact Match							
Less Detail ▼									
Crash ID	<input type="text"/> <small>(Use % as a wild card for search, ex. %01538%.)</small>								
Crash Type	<input type="text" value="- Select Crash Type -"/>								
Geocoded?	<input type="text" value="ALL"/>								
Date Range	From <input type="text" value="1/1/2010"/> (MM/DD/YYYY)	To <input type="text" value="12/31/2010"/> (MM/DD/YYYY)							
<small>NOTE: Enter either or both dates to search crash records within this range.</small>									
Time Range	From <input type="text"/> : <input type="text"/>	To <input type="text"/> : <input type="text"/>							
<small>NOTE: Enter either or both times to search crash records within this range.</small>									
Needs Locating?	<input type="checkbox"/> (Check for Yes)								
Date Added	From <input type="text"/> (MM/DD/YYYY)	To <input type="text"/> (MM/DD/YYYY)							
Last Updated	From <input type="text"/> (MM/DD/YYYY)	To <input type="text"/> (MM/DD/YYYY)							
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Crash Data



Transportation Data Management System

TCDS TSMS Home TTDS PMS PMDS RSMS PCDS PMMS WOTS RTTV
Logout + Locate + Locate All

[open map](#) [view detail ON](#) [auto-locate OFF](#)

List View Build Search Load Search Save Search Report List New Report

Crash Data			
Record	1	of 28	Goto Record <input type="text"/> go
Crash ID	10068	Needs Locating?	No
Location ID	132		
State	TX	Latitude	33.121172
County	Collin	Longitude	-96.805462
City/Township	Frisco	Distance	ft
Primary Block No.	5000	Direction	
Primary Street	PRESTON ROAD		
Inter. Block No.	5000		
Intersecting Road	Lebanon Road		
Private Property?	No		

General Crash Information

Report

Crash Report No.
2010053337

Crash Report Year
2010

Crash Date
Wednesday, June 09, 2010

Crash Time
10:05 AM

Injury

Level	Fatalities	Incap. Injuries	Non-Incap. Injuries	Possible Injuries	Total Injuries
PDO	0	0	0	0	0

Roadway

Traffic Control	Light
Signal Light	Daylight
Road Condition	Road Surface
Dry	Concrete
Primary Speed Limit	Intersecting Speed Limit
45	No
Prim.Rd Construction	Inter.Rd Construction
No	No

Circumstances

Crash Type	Intersection Related	#Vehicles Involved	Weather	# Peds	Red Light Running
Left Turn	No	2	Clear	0	No

Narrative

Unit 2 was Wb on Lebanon approaching the Preston Rd intersection which had a facing green light. Unit 1 was Eb Lebanon turning north on Preston Rd. Unit 1 could not see Unit 2 due to traffic waiting to turn south on Preston. Unit 1 said he thought he had a green arrow because the cars ahead of him proceeded through the intersection, so he followed them. Unit 1 pulled into the intersection directly in front of Unit 2, causing the collision.

Report List



Transportation Data Management System

[Back](#)

PRESET REPORT LIST

Current Search Options
Primary Street: PRESTON ROAD
Intersecting Street: Lebanon Road

GENERAL

Report Name	Data Fields	Action
Statistics Report	Graph report set including: Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Comparison Report (search vs. entire data set)	Graph report set including: Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Comparison Report (last 2 searches)	Graph report set including: Light Conditions, Crash Type, Month, Pavement Condition, Vehicle Type	
Collision Diagram	Graphical display of Crash Types, Directions, and Action Codes	
Crash Data Export	Exports all Crash data to Excel	
Unit Data Export	Exports all unit data to Excel.	
Party Data Export	Exports all Party data to Excel	

CUSTOM: These reports were developed for specific agencies. They may or may not be compatible with your agency's specific setup.

Report Name	Data Fields	Action
Monthly Crash Summary Report	Year, Month, Fatal, PI, PD, Totals, K, Injured Sort by: Year, Month ascending	
TIA Crash Report	Detailed information about crashes.	

AD-HOC REPORT LIST

Current Search Options
Primary Street: PRESTON ROAD
Intersecting Street: Lebanon Road

Report Name	Default	Data Fields	Action
Home	Build Search	New Report	



Statistics Report

Crash Type	
Type	# Crashes
Rear End	12 (43%)
Head On	0 (0%)
Side Swipe	1 (4%)
Out Of Control	0 (0%)
Left Turn	3 (11%)
Right Angle	6 (21%)
Parked Vehicle	0 (0%)
Backing Vehicle	0 (0%)
Ped/Vehicle	0 (0%)
Fixed Object	2 (7%)
Improper Turn	0 (0%)
Unsafe Lane Change	0 (0%)
Parking Lot	4 (14%)
Defective Vehicle	0 (0%)
FY - Private Driveway	0 (0%)
FY - Stop Sign	0 (0%)
FY - Turning Left	0 (0%)
FY - Yield Sign	0 (0%)
FY - Turn On Red	0 (0%)
FY - Open Intersection	0 (0%)
Debris On Road	0 (0%)
IP - Improper Pass	0 (0%)
Hit And Run	0 (0%)
Right Turn	0 (0%)
Animal	0 (0%)
Total	28

Crashes By Month	
Month	# Crashes
January	3 (11%)
February	0 (0%)
March	4 (14%)
April	1 (4%)
May	3 (11%)
June	4 (14%)
July	6 (21%)
August	1 (4%)
September	0 (0%)
October	3 (11%)
November	2 (7%)
December	1 (4%)
Total	28

Crashes By Day of Week	
Day of Week	# Crashes
Sunday	2 (7%)
Monday	5 (18%)
Tuesday	3 (11%)
Wednesday	4 (14%)
Thursday	3 (11%)
Friday	7 (25%)
Saturday	4 (14%)
Total	28

Top 10 Contributing Factors	
Factor	# Crashes
20 - Driver Inattention	16 (38%)
22 - Failed to control speed	12 (29%)
37 - Failed to yield ROW - turning left	4 (10%)
34 - Failed to yield ROW - private drive	2 (5%)
33 - Failed to yield ROW - open intersection	2 (5%)
44 - Followed too closely	2 (5%)
41 - Faulty or evasive action	1 (2%)
4 - Changed lane when unsafe	1 (2%)
45 - Had been drinking	1 (2%)
48 - Impaired visibility (explain in narrative)	1 (2%)
Total	42



Polygon Tool



Transportation Data Management System

SEARCH CRASH DATA

Enter search criteria below. Then click the "Search" button.

Crash Date	From: 1/1/2011 To: 12/31/2011 (MM/DD/YYYY)
Enter both, "To" or "From" for date range.	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
-- Select Search Field --	
<input type="button" value="Search"/> <input type="button" value="Regular Search"/> <input type="button" value="Reset"/> <input type="button" value="Go to Location Build Search"/>	

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This site is best viewed with Microsoft Internet Explorer 6.0 or above and a screen resolution set to at least 1024 x 768 pixels.

Having problems with the Google Maps interface in Internet Explorer 8?

1. Turn on "Compatibility View", the button between your address bar and refresh button
2. If you can't find the button, enable "Compatibility View" from the Tools menu

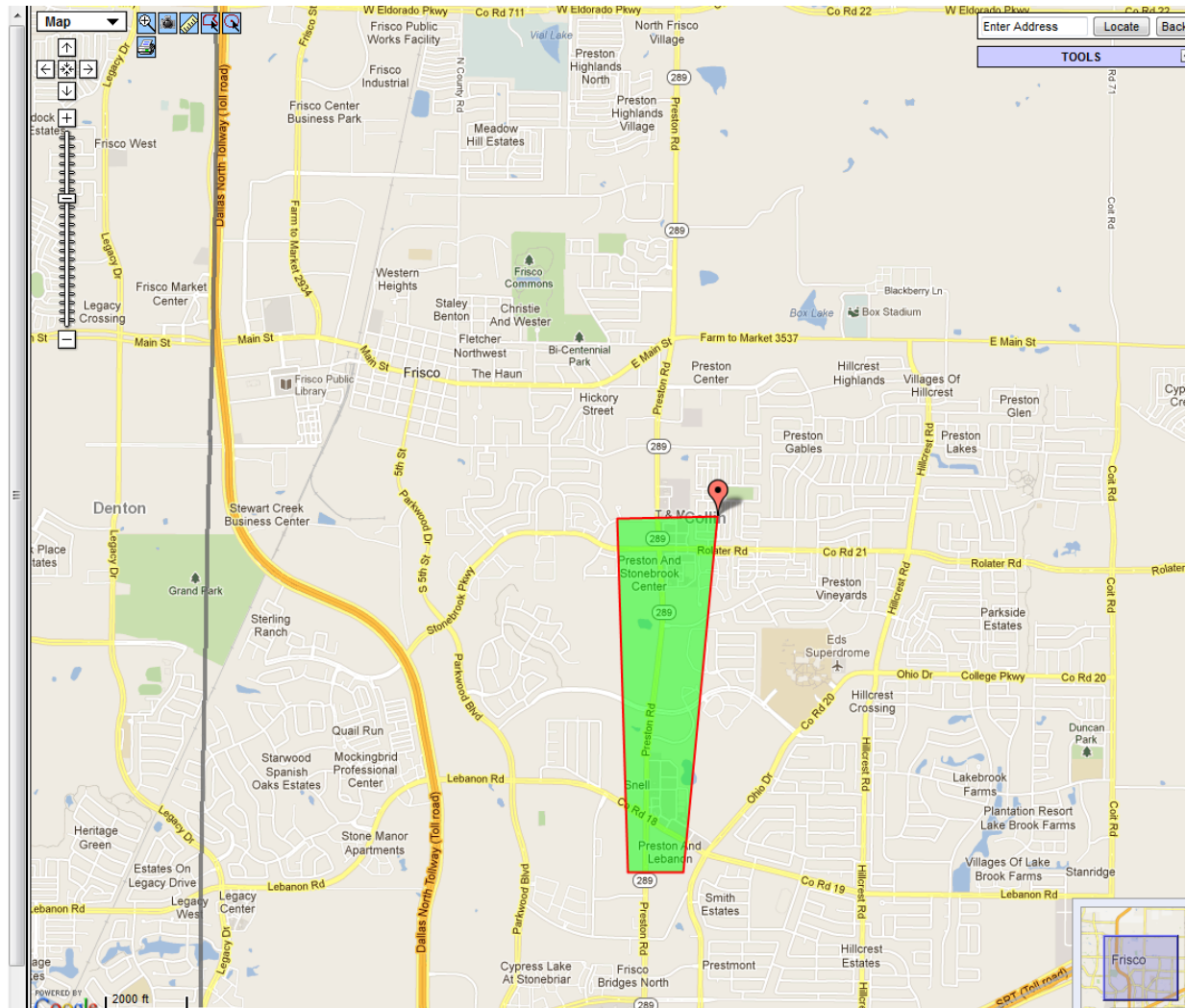
Having problems displaying pages, or are older pages being displayed?

Update Internet Explorer cache settings:


1. Select "Tools" then "Internet Options..." from the menu
2. Select the "General" tab and click the "Settings..." button under the "Temporary Internet files" section
3. Select the "Every visit to the page" option under "Check for newer versions of stored pages."
4. Click "OK" on both option windows for this to take effect.


Clear Temporary Internet Files:

1. Select "Tools" then "Internet Options..." from the menu
2. Select the "General" tab and click the "Delete Files..." button under the "Temporary Internet files" section
3. Check the "Delete all offline content" box
4. Click "OK" on both option windows for this to take effect.



Polygon Tool



Refresh Bookmark Help 

Transportation Data Management System

TCDS TSMS Home TTDS PMS PMDS RSMS PCDS PMMS WOTS RTTV

Logout Locate Locate All

open map view detail ON auto-locate OFF

Print View Build Search Load Search Save Search Report List New Report

Crash Data

Record 1 of 104 Goto Record go

Crash ID	11471	Needs Locating?	No
Location ID	128		
State	TX	Latitude	33.139380
County	Collin	Longitude	-96.804430
City/Township	Frisco	Distance	200 ft
Primary Block No.	8700	Direction	West
Primary Street	Stonebrook Parkway		
Inter. Block No.	8700		
Intersecting Road	PRESTON ROAD		
Private Property?	No		

General Crash Information

Report

Crash Report No.
2011001622

Crash Report Year
2011

Crash Date
Thursday, January 06, 2011

Crash Time
5:50 PM

Injury

Level	Fatalities	Incap. Injuries	Non-Incap. Injuries	Possible Injuries	Total Injuries
PDO	0	0	0	0	0

Roadway

Traffic Control
None

Light
Dark, Lighted

Road Condition
Dry

Road Surface
Concrete

Primary Speed Limit
40

Intersecting Speed Limit

Prim.Rd Construction
No

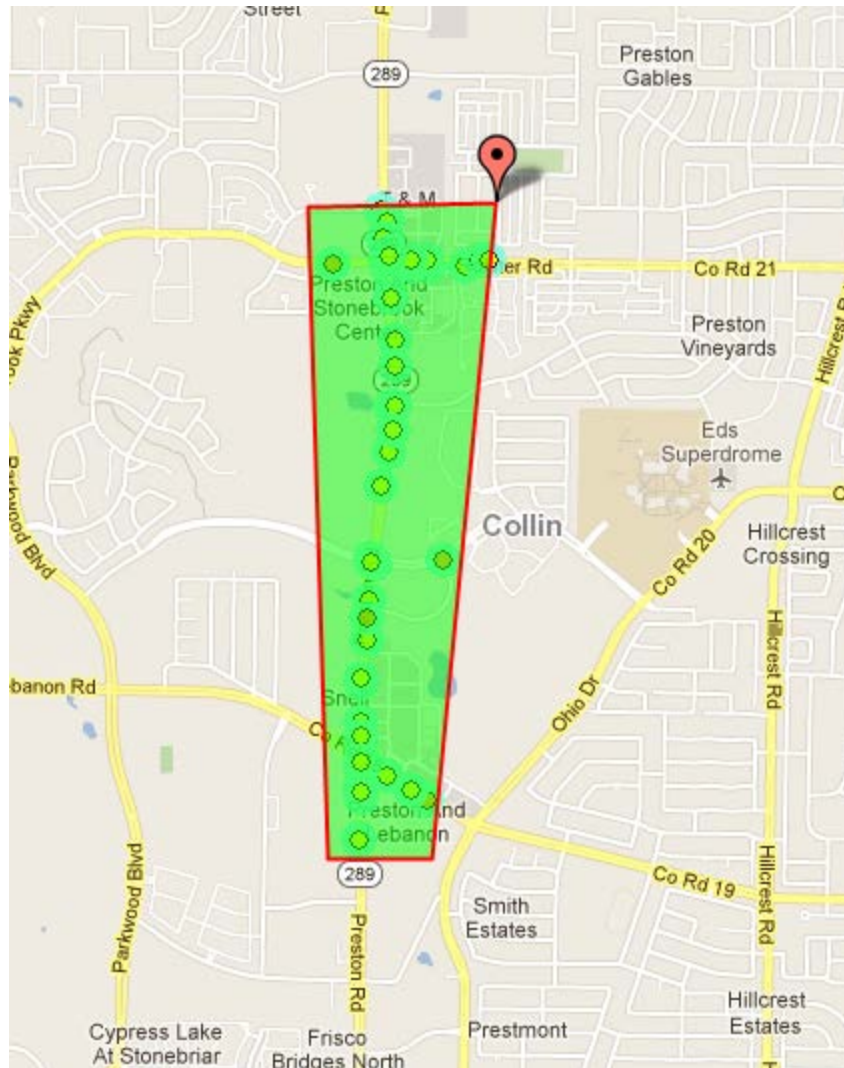
Inter.Rd Construction
No

Circumstances

Crash Type	Intersection Related	#Vehicles Involved	Weather	# Peds	Red Light Running
Left Turn	No	2	Clear	0	No

Narrative

Locate





PROGRESS IN MOTION

#	Item Description	Response	Comments
Section 1: Functional Collision Diagram Requirements			
1.00	Ability to create a collision diagram including activity for an intersection and period of time.		
1.01	Ability to filter diagram contents by an attribute in the State of Texas crash form. For example: narrow down a diagram to only include crashes where running a red light was a contributing factor.		
1.02	Ability to create diagrams for the standard annual red light camera reports for the State of Texas.		
1.03	Ability to track the vehicle direction (north, west, east, south) prior to impact.		
1.04	Ability to track the vehicle movement (left, through, right or u-turn) prior to impact.		
1.05	Diagram includes option for street names.		
1.06	Diagram can be exported to Auto CAD format. Specify whether the export is in .dwg or .dxf.		
1.07	Diagram can be exported to PDF format.		
1.08	Diagram includes a legend for crash symbols.		
1.09	Diagram includes a label for date range of data included on the report.		
1.10	Diagram includes ability to assign color for emphasis to crash attributes.		
1.11	Diagram includes ability to include information on each crash reference:		
1.11.01	Crash Time/Hour of Day		
1.11.02	Crash Day of Week		
1.11.03	Crash Date		
1.11.04	Crash Record Number		
1.12	Diagram includes ability to hyperlink to available detail for the crash. Specify formats available (PDF, Detail Report, Scan of Report)		
1.13	Ability to diagram unique intersection geometry, for example "diamond interchange". Provide an example of this format.		
1.14	System is capable of diagramming a custom date/time range.		
1.15	Ability to create collision diagrams in the style of the examples included in this RFP. List the differences between what is available in the proposed system and the sample diagrams.		



PROGRESS IN MOTION

Section 2: Functional Reporting Requirements			
2.00	Ability to search selected text field by key word. Specifically address if the following text fields are supported:		
2.00.01	Street Name		
2.00.02	Narrative		
2.00.03	Damaged Property Other than Vehicle		
2.00.04	Owner Name		
2.00.05	Owner Address		
2.01	Ability to build and save a common search.		
2.02	Ability to build queries using Boolean logic.		
2.03	Ability to create a custom search. Specify if there are limitations on number of fields.		
2.04	Ability to query crash data on multiple criteria, depending upon data availability. Specifically address how the following contributing factors are handled:		
2.04.01	Alcohol		
2.04.02	Cell Phone		
2.04.03	Red Light Violation		
2.05	Ability to query crash data on any and all attributes on the State of Texas Crash report including information on all passengers.		
2.06	Ability to report on crash rate using manually entered traffic counts by segment.		
2.07	Ability to report on crash rate using information maintained in another system or database.		
2.08	Ability to report on crash rate comparison at signalized versus un-signalized intersections.		
2.09	Ability to report on all historical information regardless of the year captured or whether it is currently included on the State of Texas Crash report.		
2.10	Ability to export a query or report to Excel.		
2.11	System is capable of running analysis on the information. Specify the default reports available.		
2.12	Ability to redact private information in scanned reports that would be made available to the Public.		
2.13	Ability to report on crash severity. For example: report fatalities regardless of whether it is driver or passenger.		



PROGRESS IN MOTION

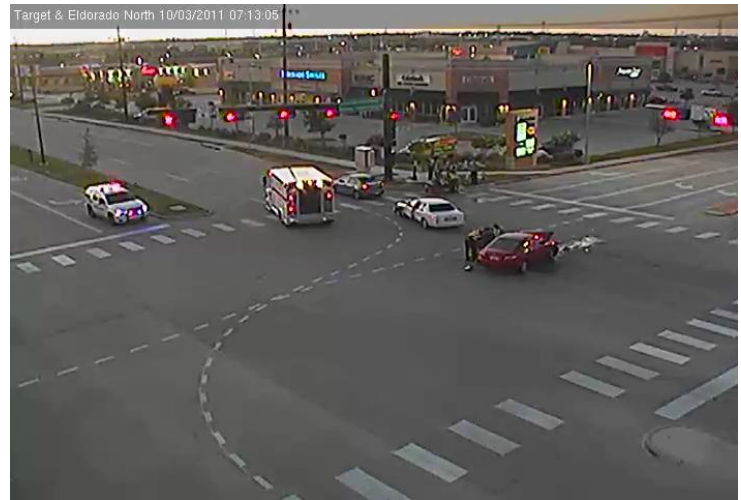
Section 3: Functional GIS Requirements

3.00	Ability to send crash points to a GIS layer. Explain how this is handled when it isn't close to an intersection.		
3.01	Ability to diagram crash site information based on the intersection if lat/long doesn't reference the exact intersection point.		
3.02	Ability to report on crash points that were not geo-coded and allow for updates to the location to resolve.		
3.03	Ability to add Frisco GIS layers to the map. (example: roads, city boundary, railroads, traffic count volumes, school zones)		
3.04	Ability to export to GIS for map requests. Specify how the crash data is exported.		

DNT & Gaylord 08/10/2011 14:11:25



Target & Eldorado North 10/03/2011 07:13:05





PROGRESS IN MOTION

Section 4: Technical Requirements

4.00	Ability to import scanned images.		
4.01	Ability to store previous years' information for fields that are no longer tracked on the current 2010 State of Texas form. For example: Road Surface Type.		
4.02	System provides updates at no additional charge when the State of Texas form is modified.		
4.03	System provides tool to map fields from current access database to the correct fields. Note: Existing system does not map directly to Texas State Crash form.		
4.04	System utilizes SQL Server 2005 or greater database version.		
4.05	System updates information when code changes are made at the state level. Describe how this is handled so reports will include the correct history. For example: Male used to be coded as "M" and is now coded as "1".		
4.06	System has the ability to publish limited information to the Public.		
4.07	System includes method to make changes to crash report information in the system, including direction of vehicle travel and crash type.		
4.08	Proposed system is customizable for the unique needs of the City of Frisco. Describe any aspects of the software that are customizable for the City of Frisco versus the same for every agency.		
4.09	System utilizes SSL security to prevent unauthorized access to the website information.		
4.10	Ability to capture text fields with unlimited number of characters during import for searches and reporting.		
4.11	Ability to capture custom information during import. Include the maximum number of fields allowed.		
4.12	Ability to enter a crash report individually. Provide a screen print of the data entry screen(s).		