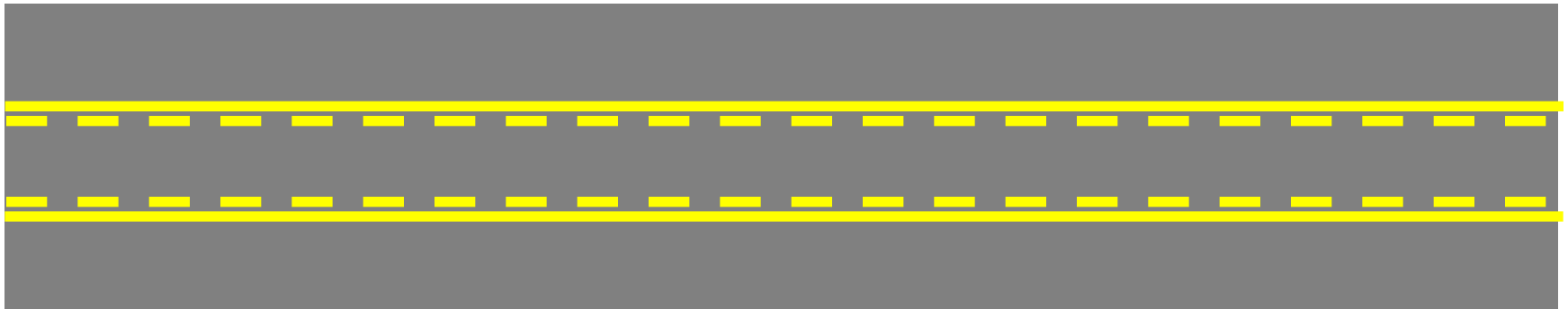


# Chapter 12

## *Strip Studies*



# Strip Study

- Identification of crashes along a strip of roadway based on the specified county, dates, and Y-line, coinciding routes, and milepost range
- Beginning and ending mileposts must be specified
- All coinciding routes (high order and low order) must be entered
- All strip studies are milepost dependant
- Also called “segment” or “section” studies

# Standard Parameters

## General Strip Studies:

Date range = 5 years

Y-line = 0 feet

(allows for a comparison with crash rates)

## Fatal Strip Studies:

Date range = 5 years

Y-line = 0 feet

(allows for broader information - especially on rural roads)

## Pedestrian and/or Bicycle Strip Studies:

Date range = 10 years

Y-line = 50 feet

(smaller subset of data; captures parallel crosswalk areas)

# Standard Parameters (Cont.)

## Highway Safety Improvement Program (HSIP) Strip Studies:

Date range = 5 or 10 years (depending on the warrant)

Y-line = 0 feet

(allows for a comparison with safety warrants)

## Bridge Strip Studies:

Date range = 5 years

Y-line = 0 feet

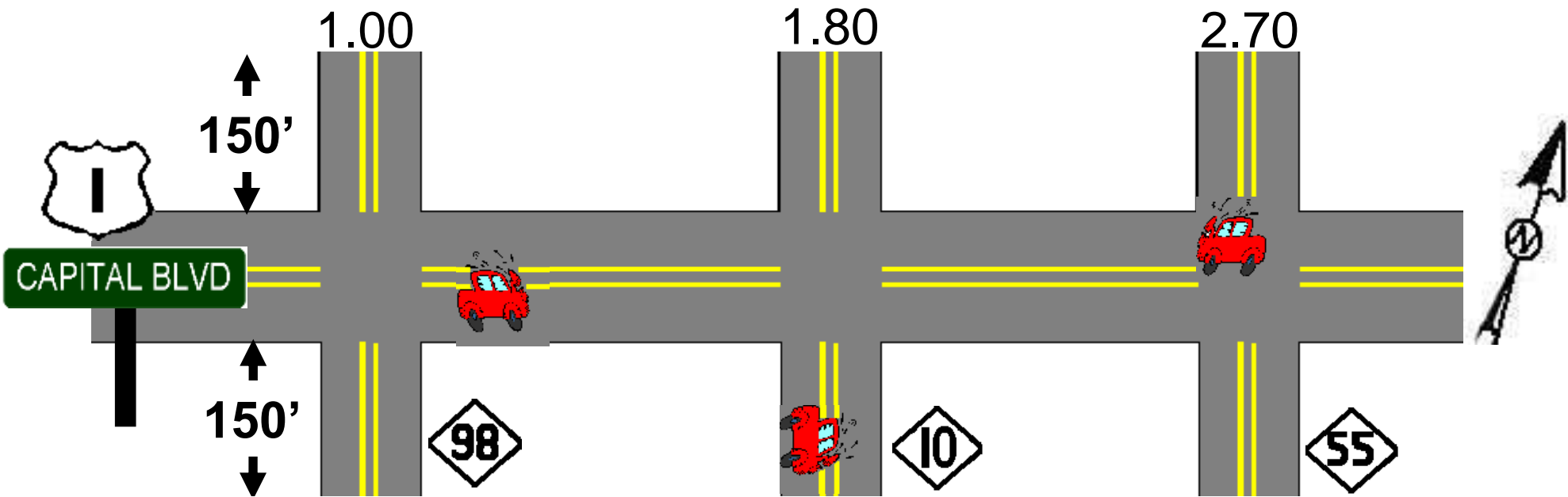
Milepost range = length of bridge + 500 feet on either end

(milepost range can be expanded depending on site issues)

# Strips - Milepost Dependant

## Study Milepost Definition

US 1, MP 1.00 to MP 2.70



The following reported crashes would be included in a study of US 1/Capital Blvd from MP 1.00 to MP 2.70 (150' Y-Line):

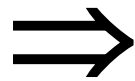
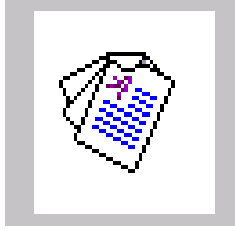
<u>ON RD</u>	<u>FROM RD</u>	<u>FROM DIST</u>	<u>FROM DIR</u>	<u>MP</u>
Capital Blvd	NC 98	250 ft	E	1.05
NC 10	US 1	100 ft	S	1.80
US 1	NC 55	0 ft		2.70

# Strip Identification

- Strip locations are identified by **MILEPOST** ranges (not route combinations)!
- When performing a strip study, it is necessary to determine all possible coinciding routes.
- Get the features reports for all coinciding strip routes.
- If your strip routes are not mileposted then they will need to be mileposted prior to performing the study.
- Crashes are identified by the study parameters and located on the strip by their milepost!

# Strip Study Screen

- Access the Strip Study screen by selecting the following:



**Strip Study Report**

- 4 Tabs within the Strip Study screen:
  - **Study Information** - allows for entry of general study information
  - **Road Identification** - allows users to generate a Fiche Report, and to specify the coinciding routes
  - **Accident Adjustments** - allows users to include or exclude accidents
  - **Feature Inclusion** - allows users to include Features not currently inventoried

# Study Information Tab

TEAAS - Reports - Intersection Analysis

Edit Help

Study Information | Road Identification | Accident Adjustments

Save As

**Study Area**

Study Name  Location Text

County  Division  Municipality

Y-Line Feet  Begin Date  End Date  Years

ADT  ADT Route  K/A Coeff.  B/C Coeff.

Log No.  PH No.  TIP No.

**Request Information**

Received  Courier Service  Requested By

Phone  Phone Ext.  Fax

**Last Update**

User ID

Date/Time

0 of 0

See Chapter 10  
for information  
on this screen.



# Road Identification Tab

TEAS - Reports - Strip Analysis

Edit Help

Study Information Road Identification Accident Adjustments Feature Inclusions

Log No. [ ]

Generate Fiche Generate Study

Strip Road

Validate Name/Code

Road Code [ ] Road Name [ ] Begin MP [ ] End MP [ ] Length [ ]

Fiche Roads

Specify any coinciding routes. These roads, along with the strip road, will be used to generate the Fiche Report from this screen.

Lookup Validate Names/Codes

Table Input

[ ] [ ] Submit

Road Code	Road Name
-----------	-----------

0 of 0

Strip road 8-digit code

Strip road name

Strip road ending milepost

Strip road beginning milepost

Coinciding route names and 8-digit codes

**Remember - use caution when using the "Lookup" button!**

# Road Identification Tab (Cont.)

- In the “Strip Road” section, enter a road that represents the most continuous segment for the location under study. A road name of up to 25 alphanumeric characters **OR** a valid 8-digit code may be entered.
- Enter the beginning and ending mileposts for the strip road.
- Click the “**Validate Name/Code**” button.

**Strip Road**

**Validate Name/Code**

Road Code	Road Name	Begin MP	End MP	Length
40001335	SR 1335	0.00	2.22	2.220

- Enter names or 8-digit codes for coinciding routes in the “Fiche Roads” section
- Click the “**Validate Names/Codes**” button.

**Fiche Roads**

Specify any coinciding routes. These roads, along with the strip road, will be used to generate the Fiche Report from this screen.

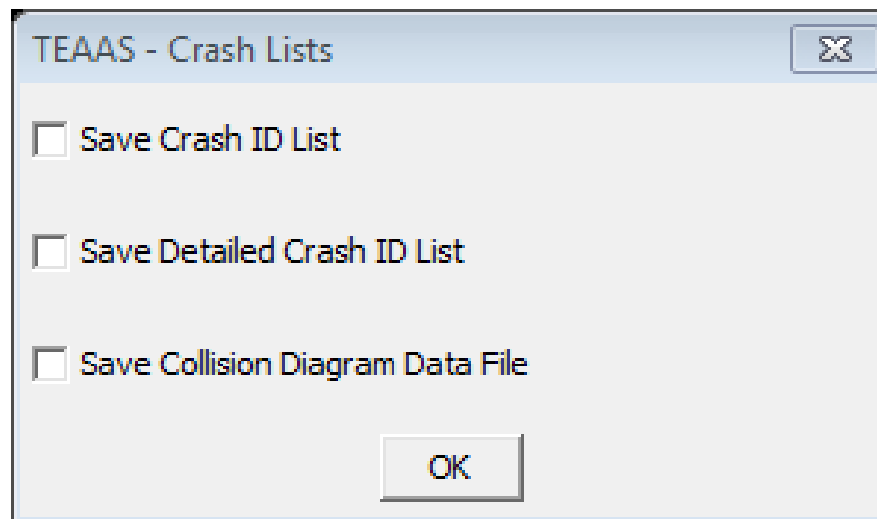
**Lookup** **Validate Names/Codes**

**Table Input**

Road Code	Road Name
50030308	THIRD
50033187	WILSON

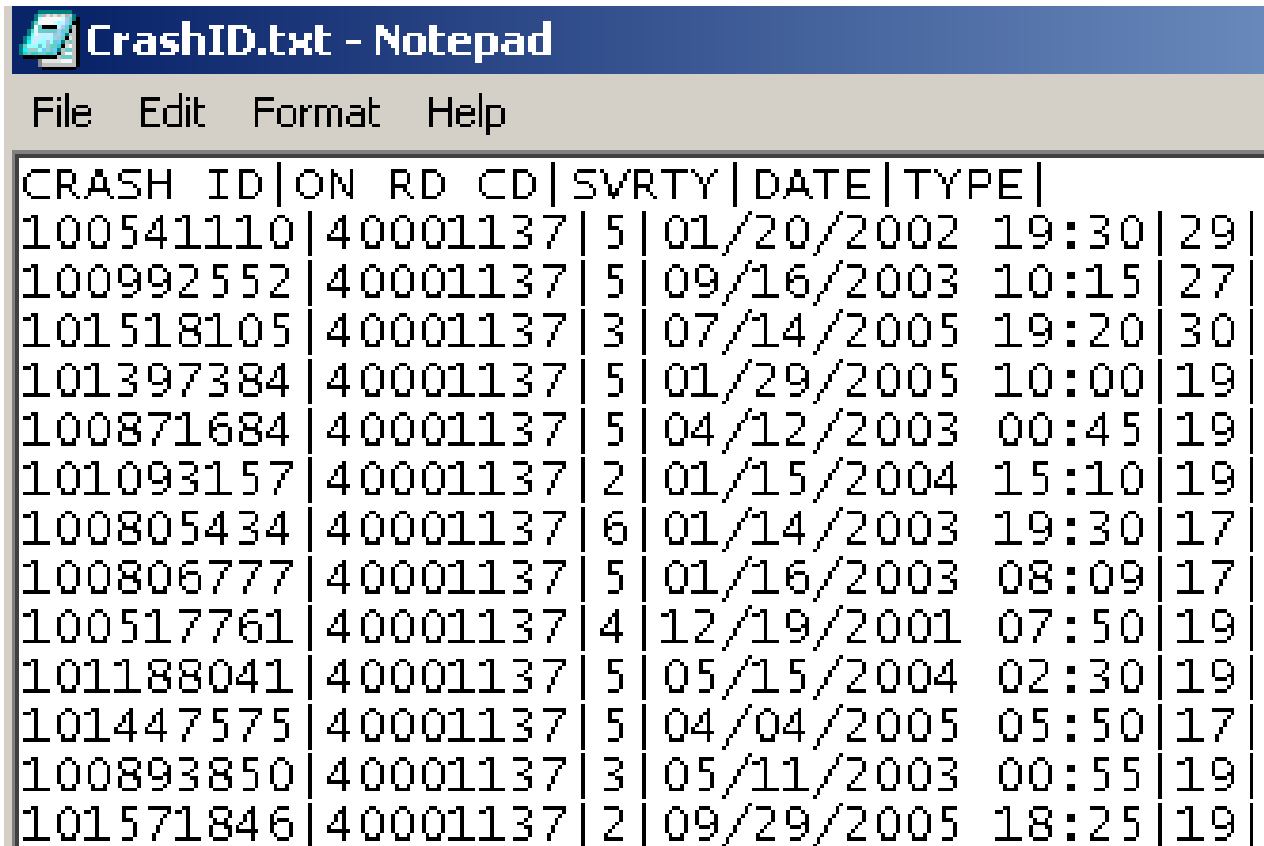
# Road Identification Tab (Cont.)

- Click on the “**Generate Study**” button to run a strip study based on the study criteria.
- A dialog box will prompt users to save a “Crash ID List” (crash level information) or a “Detailed Crash ID List” (person level information) or a “Collision Diagram Data File” (crash level information for a collision diagram). Select the output option (if desired) and click the “**OK**” button. If selected, this information will be saved as a text file.



# Crash ID List

- This text file contains 5 columns of crash-level crash data.
- It may be imported into Excel or Access for further review.

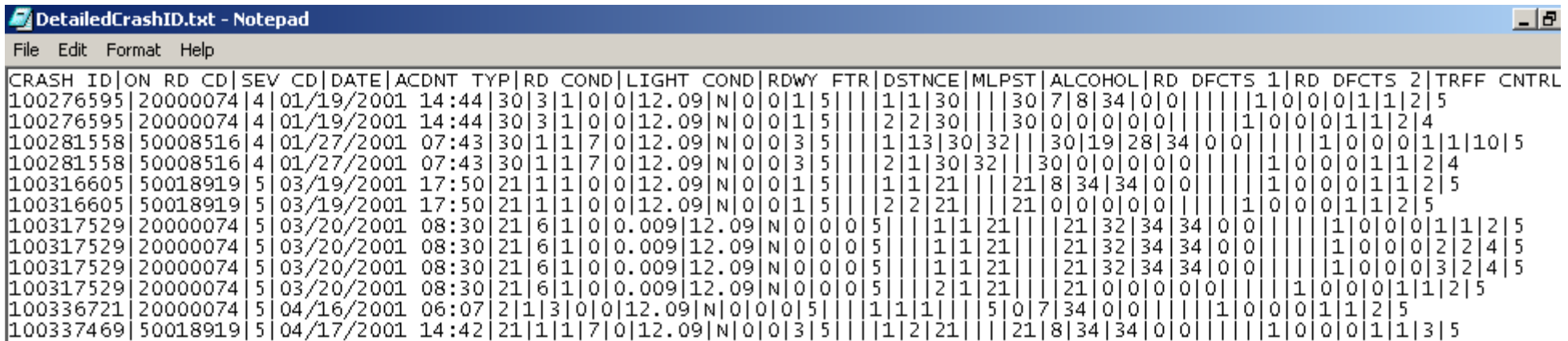


The screenshot shows a Notepad window with the following data:

CRASH ID	ON RD CD	SVRTY	DATE	TYPE
100541110	40001137	5	01/20/2002 19:30	29
100992552	40001137	5	09/16/2003 10:15	27
101518105	40001137	3	07/14/2005 19:20	30
101397384	40001137	5	01/29/2005 10:00	19
100871684	40001137	5	04/12/2003 00:45	19
101093157	40001137	2	01/15/2004 15:10	19
100805434	40001137	6	01/14/2003 19:30	17
100806777	40001137	5	01/16/2003 08:09	17
100517761	40001137	4	12/19/2001 07:50	19
101188041	40001137	5	05/15/2004 02:30	19
101447575	40001137	5	04/04/2005 05:50	17
100893850	40001137	3	05/11/2003 00:55	19
101571846	40001137	2	09/29/2005 18:25	19

# Detailed Crash ID List

- This text file contains 43 columns of person-level crash data.
- It may be imported into Excel or Access for further review.



DetailedCrashID.txt - Notepad

File Edit Format Help

CRASH ID	ON RD CD	SEV CD	DATE	ACDNT TYP	RD COND	LIGHT COND	RDWY FTR	DSTNCE	MLPST	ALCOHOL	RD DFCTS 1	RD DFCTS 2	TRFF CNTRL
100276595	20000074	4	01/19/2001	14:44	30 3 1 0 0	12.09 N 0 0	1 5	1 1 30	30 7 8 34 0 0	1 0 0 0 1 1 2 5			
100276595	20000074	4	01/19/2001	14:44	30 3 1 0 0	12.09 N 0 0	1 5	2 2 30	30 0 0 0 0 0	1 0 0 0 1 1 2 4			
100281558	50008516	4	01/27/2001	07:43	30 1 1 7 0	12.09 N 0 0	3 5	1 13 30 32	30 19 28 34 0 0	1 0 0 0 1 1 10 5			
100281558	50008516	4	01/27/2001	07:43	30 1 1 7 0	12.09 N 0 0	3 5	2 1 30 32	30 0 0 0 0 0	1 0 0 0 1 1 2 4			
100316605	50018919	5	03/19/2001	17:50	21 1 1 0 0	12.09 N 0 0	1 5	1 1 21	21 8 34 34 0 0	1 0 0 0 1 1 2 5			
100316605	50018919	5	03/19/2001	17:50	21 1 1 0 0	12.09 N 0 0	1 5	2 2 21	21 0 0 0 0 0	1 0 0 0 1 1 2 5			
100317529	20000074	5	03/20/2001	08:30	21 6 1 0 0	0.009 12.09 N 0 0	0 5	1 1 21	21 32 34 34 0 0	1 0 0 0 1 1 2 5			
100317529	20000074	5	03/20/2001	08:30	21 6 1 0 0	0.009 12.09 N 0 0	0 5	1 1 21	21 32 34 34 0 0	1 0 0 0 2 2 4 5			
100317529	20000074	5	03/20/2001	08:30	21 6 1 0 0	0.009 12.09 N 0 0	0 5	1 1 21	21 32 34 34 0 0	1 0 0 0 3 2 4 5			
100317529	20000074	5	03/20/2001	08:30	21 6 1 0 0	0.009 12.09 N 0 0	0 5	2 1 21	21 0 0 0 0 0	1 0 0 0 1 1 2 5			
100336721	20000074	5	04/16/2001	06:07	2 1 3 0 0	12.09 N 0 0	0 5	1 1 1	5 0 7 34 0 0	1 0 0 0 1 1 2 5			
100337469	50018919	5	04/17/2001	14:42	21 1 1 1 7 0	12.09 N 0 0	3 5	1 2 21	21 8 34 34 0 0	1 0 0 0 1 1 3 5			

# Collision Diagram Data File

- This text file contains 22 columns of crash-level data.
- It may be imported into the semi-automated collision diagram program for development of a collision diagram.

```
CollisionDiagramData_20120702.txt - Notepad
File Edit Format View Help
"CRSH_ID","CNTY_NBR","MLPST_NBR","NBR_UNT_CNT","FRM_RD_CD","RD_ON_CD","DSTNC_MILE_FRM_RD_QTY","DRCTN_FRM_RD_CD","ACDNT_DT_TM","SVRTY_CD","ACC_
"102145595","10","1.181","2","50003816","50005727",".028","S","09/21/2007 18:21","2","30","2","1","1","0","35","10","10","8","19","E","1"
"102145595","10","1.181","2","50003816","50005727",".028","S","09/21/2007 18:21","2","30","2","1","1","0","35","35","25","4","0","S","2"
"102489971","10","1.181","1","50003816","50005727",".028","S","12/15/2008 02:08","5","19","2","2","4","13","30","25","25","5","30","S","1"
"101998960","10","1.19","2","50003816","50005727",".019","S","03/30/2007 17:20","5","21","2","1","1","0","35","35","35","4","20","S","1"
"101998960","10","1.19","2","50003816","50005727",".019","S","03/30/2007 17:20","5","21","2","1","1","0","35","30","30","11","0","S","2"
"102115999","10","1.19","1","50003816","50005727",".019","S","08/17/2007 00:07","4","1","2","1","4","0","30","30","30","4","32","S","1"
"101939993","10","1.209","3","50003816","50005727","0","","01/12/2007 17:58","4","14","2","1","4","0","30","10","5","4","0","S","3"
"102145000","10","1.209","2","50003816","50005727","0","","09/20/2007 16:01","5","21","3","1","1","0","30","30","30","4","20","S","1"
"102145000","10","1.209","2","50003816","50005727","0","","09/20/2007 16:01","5","21","3","1","1","0","30","30","1","0","S","2"
"102389264","10","1.209","1","50003816","50005727","0","","08/06/2008 15:16","5","1","2","1","1","0","30","30","30","8","26","E","1"
"102524985","10","1.209","2","50003816","50005727","0","","01/27/2009 13:01","5","21","2","1","1","13","35","20","20","4","20","N","1"
"102524985","10","1.209","2","50003816","50005727","0","","01/27/2009 13:01","5","21","2","1","1","13","35","1","0","N","2"
"102575981","10","1.209","2","50003816","50005727","0","","04/08/2009 18:48","5","21","2","1","1","0","30","35","30","4","8","N","1"
"102575981","10","1.209","2","50003816","50005727","0","","04/08/2009 18:48","5","21","2","1","1","0","30","1","0","N","2"
"102992628","10","1.21","2","50001446","50005727",".019","E","10/14/2010 08:22","5","30","2","1","1","0","30","20","15","5","8","N","1"
"102992628","10","1.21","2","50001446","50005727",".019","E","10/14/2010 08:22","5","30","2","1","1","0","30","30","30","16","32","N","2"
"102411856","10","1.229","1","50001446","50005727","0","","09/11/2008 02:12","3","19","2","1","4","0","30","25","15","4","23","N","1"
"102786727","10","1.229","2","50001446","50005727","0","","01/18/2010 08:01","4","23","2","2","1","1","30","30","30","8","9","SW","1"
"102786727","10","1.229","2","50001446","50005727","0","","01/18/2010 08:01","4","23","2","2","1","1","30","5","5","4","0","N","2"
"102894975","10","1.229","2","50001446","50005727","0","","06/09/2010 22:26","5","24","2","1","4","1","35","13","13","8","19","W","1"
"102894975","10","1.229","2","50001446","50005727","0","","06/09/2010 22:26","5","24","2","1","4","1","35","35","22","4","0","N","2"
"102393149","10","1.276","2","50001446","50005727",".047","N","08/25/2008 16:12","4","21","2","1","1","0","35","30","25","11","8","N","1"
```

# Accident Adjustments Tab

- Allows users to edit (add, delete, re-milepost) crashes.
- Click the **“Generate Lists”** button to populate the data.

“Generate Lists” Button

“Included Accidents” table

“Study Accidents List” table

TEAAS - Reports - Strip Analysis

Edit Help

Study Information Road Identification Accident Adjustments Feature Inclusions

Log No. Begin MP End MP Road Code

Generate Lists Generate Study

**Included Accidents**

Table Input

Type	CrashID	Old MP	New MP
------	---------	--------	--------

Include additional accidents by entering the CrashID and milepost value here or import a list.

Import List Sort

**Fiche Minus Study Accidents List**

These accidents appear in the Fiche Report, but do not currently appear in the study. Select those you want to include.

CrashID	Milepost
---------	----------

Include

**Study Accidents List**

CrashID	Milepost
---------	----------

Remilepost

These accidents appear in the study based on the given criteria. Select those that you want to remilepost or exclude from the study.

Exclude

**Excluded Accidents**

CrashID	Milepost
---------	----------

These accidents initially appeared in the study, but will be excluded from the next generated study.

0 of 0

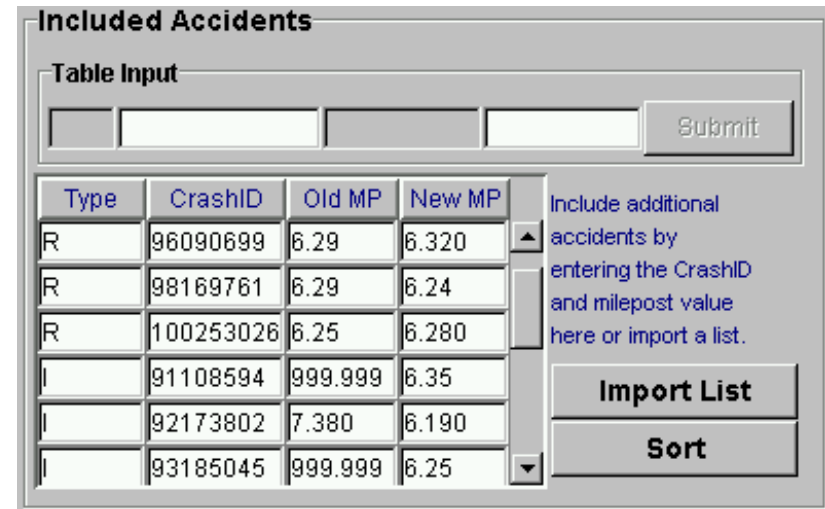
“Fiche Minus Study Accidents List” table

“Excluded Accidents” table

# Included Accidents

## Crashes added to the study by:

- 1) Including crashes from the “Fiche Minus Study Accidents”
- 2) Entering a Crash ID and new milepost into the “Table Input” section and clicking the “**Submit**” button
- 3) Clicking the “**Import List**” button to import a text file containing Crash IDs and milepost values
- 4) All added crashes must be given a new milepost that falls within the range specified for the strip road in the “Road Identification” tab.
- 5) TEAAS will check all added crashes to ensure they are within the date range of the study.



The screenshot shows a web interface titled "Included Accidents". It features a "Table Input" section with four empty input fields and a "Submit" button. Below this is a table with the following data:

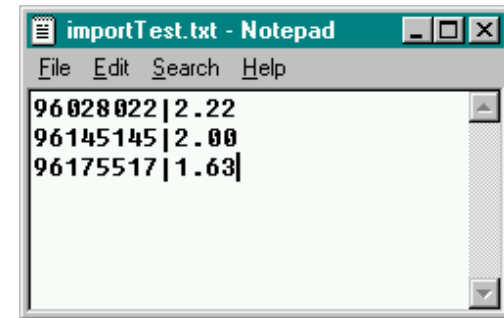
Type	CrashID	Old MP	New MP
R	96090699	6.29	6.320
R	98169761	6.29	6.24
R	100253026	6.25	6.280
I	91108594	999.999	6.35
I	92173802	7.380	6.190
I	93185045	999.999	6.25

To the right of the table is a text box containing the instruction: "Include additional accidents by entering the CrashID and milepost value here or import a list." Below this text box are two buttons: "Import List" and "Sort".

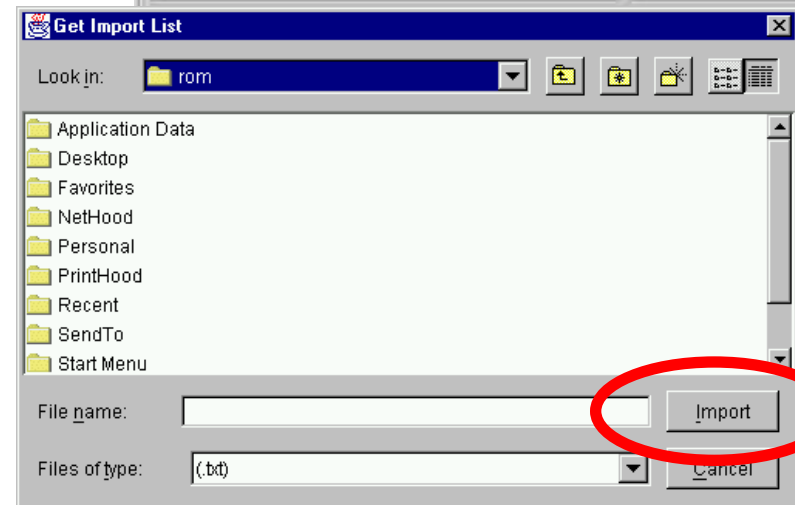
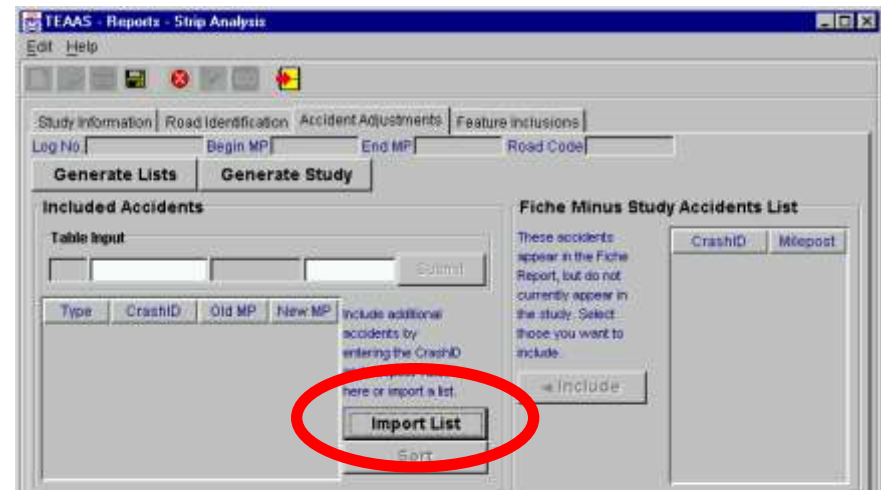


# Included Accidents - Importing a List

To import a list of crashes, they must first be saved into a text file with the Crash ID and milepost values separated by the “pipe” symbol (|). The text file should have no headers, and each row should have no more than one crash and milepost value. To import the crashes, the system will prompt users to locate the text file. Once located, click the “Import” button to import the list.



```
importTest.txt - Notepad
File Edit Search Help
96028022|2.22
96145145|2.00
96175517|1.63
```



# Included Accidents (Cont.)

Crash ID currently being edited

Field to enter new milepost value

Shows all crashes that were either included or remileposted

**Included Accidents**

Table Input

R	98169761	6.29		Submit
---	----------	------	--	--------

Type	CrashID	Old MP	New MP
I	98165718	6.420	6.29
I	99218663	7.175	6.280
I	100333040	5.85	6.280
R	98169761	6.29	
I	100043531	4.9	
I	100035506	6.49	

Include additional accidents by entering the CrashID and milepost value here or import a list.

Import List

Type of edit  
I = Included  
R = Remileposted

Crash IDs

Old milepost value

New milepost value  
(blank until edited)

# Included Accidents (Cont.)

- To delete crashes:
  - Highlight the Crash ID
  - Click the “**Delete**” key
  - Highlight multiple records with the “**Ctrl**” or “**Shift**” keys

**Included Accidents**

Table Input

				Submit
--	--	--	--	--------

Type	CrashID	Old MP	New MP	
R	96090699	6.29	6.320	▲
R	98169761	6.29	6.24	
R	100253026	6.25	6.280	
I	91108594	999.999	6.35	
I	92173802	7.380	6.190	
I	93185045	999.999	6.25	▼

Include additional accidents by entering the CrashID and milepost value here or import a list.

**Import List**

- To edit mileposts:
  - Highlight the Crash ID
  - Click the “**Enter**” key
  - Edit the milepost value
  - Click the “**Submit**” button

(Note - editing the milepost value of a crash only affects the current study and does not change the crash's milepost in the system.)

# Fiche Minus Study Accidents List

- Crashes appearing in this table are contained within the fiche report but have not been included in the study.

**Fiche Minus Study Accidents List**

These accidents appear in the Fiche Report, but do not currently appear in the study. Select those you want to include.

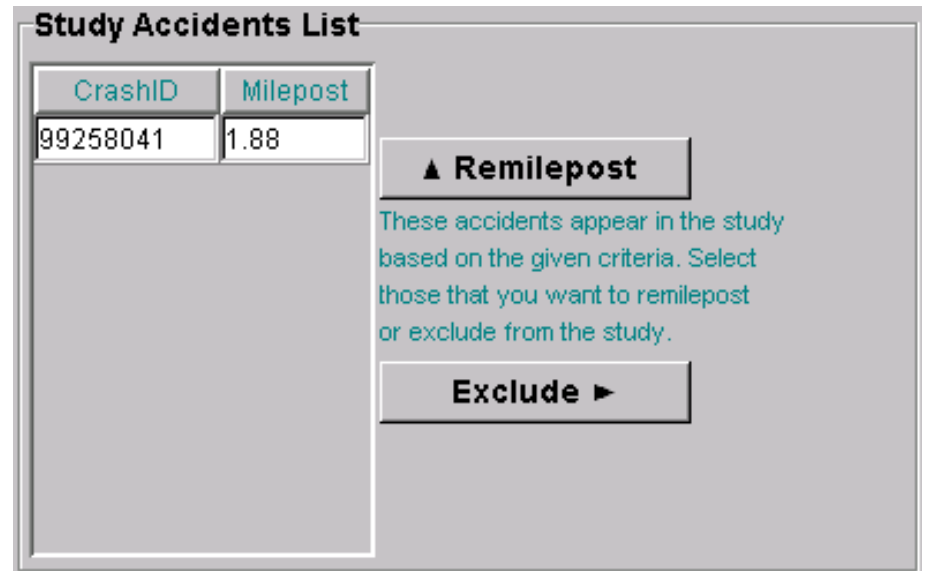
CrashID	Milepost
96028023	999.999
96145144	999.999
96175516	999.999
96178776	999.999
96217726	999.999
96237919	999.999
96243509	999.999
96251310	999.999
96256867	999.999

◀ **Include**

- To include crashes from this table into the study:
  - Highlight the Crash ID
  - Click the “**Include**” button
  - Highlight multiple records with the “**Ctrl**” or “**Shift**” keys

# Study Accidents List

- Crashes appearing in this table are in the study but may or may not be on the fiche report.
- To remilepost crashes, highlight the Crash ID(s) and click the “Remilepost” button. These crashes will be moved to the “Included Accidents” table where their mileposts can then be edited.
- To exclude crashes from the study:
  - Highlight the Crash ID and click the “**Exclude**” button
  - Highlight multiple records with the “**Ctrl**” or “**Shift**” keys



CrashID	Milepost
99258041	1.88

▲ Remilepost


These accidents appear in the study based on the given criteria. Select those that you want to remilepost or exclude from the study.

Exclude ►

(Excluded crashes are moved to the “Excluded Accidents” table.)

# Excluded Accidents

- Can only be populated by excluding crashes from the “Study Accidents List” table



Excluded Accidents

CrashID	Milepost
---------	----------

These accidents initially appeared in the study, but will be excluded from the next generated study.

- To delete crashes from this panel
  - Highlight the Crash ID
  - Click the “**Delete**” key
  - Highlight multiple records using the “**Ctrl**” or “**Shift**” keys

# Feature Inclusions Tab

The “Feature Inclusions” tab allows users to include features and their location (milepost) that have not been inventoried on the strip road.

Field to enter the text of the new feature

Shows all features that have already been added

TEAAS - Reports - Strip Analysis

Edit Help

Study Information | Road Identification | Accident Adjustments | Feature Inclusions

Log No. 200110088 Begin MP 6.190 End MP 6.393 Road Code 40001401

Generate Study

Include Other Features

Include additional features by entering the feature and its milepost value. The milepost value must be between (inclusive) the Begin MP and End MP values displayed above.

Feature Input

Feature	Milepost
Sharp Curve	1.23
McDonald's PVA	1.79
Jones Farm Rd (Private Drive)	2.70

1 of 1

Field to enter the milepost of the new feature

# Features Inclusions Tab (Cont.)

## To add a feature:

- Enter the feature text in the first field of the “Table Input” section
- Enter the feature’s milepost in the second field of the “Table Input” section (must be in the range specified for the strip road)
- Click the “**Submit**” button
- Repeat the process until all additional features have been added

(Note - adding features to a study does not add them to any feature report nor does it include them in the system.)



# Features Inclusions Tab (Cont.)

## To modify a feature:

- Highlight the row of the feature to be modified
- Click the “**Enter**” key
- Modify the the record in the “Table Input” section
- Click the “**Submit**” button

## To delete a feature:

- Highlight the row of the feature to be deleted
- Click the “**Delete**” key
- Highlight multiple records using the “**Ctrl**” or “**Shift**” keys

# Steps in Completing Strip Studies

- 1) Determine the location and reason for the study
  - Review maps
  - Run feature report(s)
  - Determine or calculate traffic volumes (AADTs)
  - Milepost strip road (if road is not already mileposted)
- 2) Enter study criteria
- 3) Generate a fiche report
- 4) Generate the initial study
- 5) Evaluate the fiche report and compare it with the initial study to determine if any crashes need to be added, deleted or remileposted
- 6) Add, delete, and/or remilepost crashes on the study in the “Accident Adjustments” tab
- 7) Add features on the “Features Inclusion” tab (if necessary)
- 8) Generate the final study

# Strip Study Example

Suppose you perform an Strip Study on SR 1335 in Washington County (MP 0.00-2.22), from 1/1/1996 through 12/31/1999, with a Y-Line of 50 feet.

Step A - Gather all maps (county, city, traffic count, etc.)

Step B - Run features reports

After reviewing the maps and studying other materials it was determined that the coinciding routes of SR 1335 are Third and Wilson. These two additional roads must be included as coinciding routes.

Step C - Calculate the weighted AADT (1,700 VPD)

# Strip Study Example (Cont.)

Step D - SR 1335 is not mileposted and must be manually mileposted. By using maps and other available information it has been determined that the following features need to be mileposted on SR 1335:

<b><u>FEATURE</u></b>	<b><u>MP</u></b>
PLYMOUTH CITY LIMITS	0.70
SR 1336/BATEMAN ST	1.08
START OF THIRD ST	1.96
HYMAN LANE	1.01
CAMPBELL ST	0.88
PINE ST	0.80
GOLF ST	1.36
WASHINGTON ST	2.20
JEFFERSON ST	2.11
MONROE ST	2.04
FOURTH ST	1.88
RR TRACKS	1.81
CHESTNUT ST (NORTHERN END)	1.79
CHESTNUT ST (SOUTHERN END)	1.60
US 64	0.00
POST OFFICE	2.13
WALMART PVA	1.85

# Strip Study Example (Cont.)

Step E - Click on the “**New**” icon

Step F - Enter study criteria

Step G - Click the “Road Identification” Tab

Step E

Step F

Step G

TEAAS - Reports - Strip Analysis

Edit Help

Study Information Road Identification Accident Adjustments Feature Inclusions

Save As

**Study Area**

Study Name Location Text

dtharpewashsr1335 SR 1335 in Washington County

County Division Municipality

WASHINGTON All and Rural

Y-Line Feet Begin Date End Date Years

50 1/1/1996 12/31/1999 4

ADT ADT Route K/A Coeff. B/C Coeff.

1700 40001335 76.8 8.4

Log No. PH No. TIP No.

**Request Information**

Received Courier Service Requested By

Phone Phone Ext. Fax

**Last Update**

User ID

Date/Time

# Strip Study Example (Cont.)

Step H - Enter the study route (SR 1335) in the “Strip Road” section

(The study route should be the most continuous route)

Step I - Enter the beginning and ending mileposts for SR 1335 (0.00-2.22)

Step J - Enter the coinciding routes (Third and Wilson) into the “Fiche Roads” section

(There is no need to include SR 1335 in the fiche roads since it has been entered as the strip road)

Step K - Generate the fiche report

Step K

Step H

Step I

Step J

Road Code	Road Name
50030308	THIRD
50033187	WILSON

Remember - use caution if using the “Lookup” button!

# Strip Study Example (Cont.)

Step L - Generate the initial study

Step M - Save the list of Crash IDs or the data file (optional)

Step N - Print or save the initial study (optional - not shown)

Step O - Save the study

The screenshot shows the TEAAS - Reports - Strip Analysis software interface. The window title is "TEAAS - Reports - Strip Analysis". The interface includes a menu bar with "Edit" and "Help", a toolbar with icons for file operations, and several tabs: "Study Information", "Road Identification", "Accident Adjustments", and "Feature Inclusions". The "Study Information" tab is active, showing a "Log No." field and two buttons: "Generate Fiche" and "Generate Study". Below this is the "Strip Road" section with a "Validate Name/Code" button. A table lists road information:

Road Code	Road Name	Begin MP	End MP	Length
40001335	SR 1335			

Below the table is the "Fiche Roads" section with a "Specify any coinciding routes. They used to generate the Fiche Report" instruction, "Lookup" and "Validate" buttons, and a "Table Input" section with two empty input fields. At the bottom, another table lists road codes and names:

Road Code	Road Name
5001008	THIRD
50033187	WILSON

A "TEAAS - Crash Lists" dialog box is open, showing three checkboxes: "Save Crash ID List", "Save Detailed Crash ID List", and "Save Collision Diagram Data File". An "OK" button is at the bottom right of the dialog. Three arrows point from text labels to the interface: "Step O" points to the "Generate Study" button, "Step L" points to the "Generate Fiche" button, and "Step M" points to the "Save Crash ID List" checkbox in the dialog box.

# Strip Study Example (Cont.)

**North Carolina Department of Transportation  
Traffic Engineering Accident Analysis System  
Strip Analysis Report**

## Study Criteria Summary

<b>County:</b>	WASHINGTON	<b>City:</b>	All and Rural
<b>Date:</b>	1/1/1996 to 12/31/1999	<b>Study:</b>	WASHINGTONSR1335
<b>Location:</b>	SR 1335 (Third, Wilson)		

## Report Details

Acc No	Crash ID	Milepost	Date	Accident Type	Total Damage	Injuries				Condition			Road		Trfc Ctl	
						F	A	B	C	R	L	W	Ch	Ci	Dv	Op
1	98212676	0.000	11/03/1998 12:37	LEFT TURN, SAME ROADWAY	\$ 5500	0	0	0	1	2	1	3	1	0	0	2
<b>Unit</b>	<b>1 : 1</b>	<b>Alchl/Drugs:</b>	0	<b>Speed:</b>	5 MPH	<b>Dir:</b>	N	<b>Veh Mnvr/Ped Actn:</b>	8	<b>Obj Strk:</b>						
<b>Unit</b>	<b>2 : 2</b>	<b>Alchl/Drugs:</b>	0	<b>Speed:</b>	45 MPH	<b>Dir:</b>	S	<b>Veh Mnvr/Ped Actn:</b>	4	<b>Obj Strk:</b>						
-----																
2	99074804	0.017	04/22/1999 05:10	RAN OFF ROAD - LEFT	\$ 5000	0	0	0	0	1	5	1	5	0	0	2
<b>Unit</b>	<b>1 : 1</b>	<b>Alchl/Drugs:</b>	7	<b>Speed:</b>	60 MPH	<b>Dir:</b>	S	<b>Veh Mnvr/Ped Actn:</b>	4	<b>Obj Strk:</b>	34					
-----																
3	98128649	0.100	07/10/1998 21:20	RAN OFF ROAD - RIGHT	\$ 8000	0	0	3	1	2	5	2	1	0	0	2
<b>Unit</b>	<b>1 : 1</b>	<b>Alchl/Drugs:</b>	0	<b>Speed:</b>	45 MPH	<b>Dir:</b>	W	<b>Veh Mnvr/Ped Actn:</b>	4	<b>Obj Strk:</b>	33					
-----																
4	96145144	0.300	08/03/1996 01:05	RAN OFF ROAD - RIGHT	\$ 1000	0	0	0	0	2	5	2	1	0	0	2
<b>Unit</b>	<b>1 : 3</b>	<b>Alchl/Drugs:</b>	0	<b>Speed:</b>	45 MPH	<b>Dir:</b>	N	<b>Veh Mnvr/Ped Actn:</b>	4	<b>Obj Strk:</b>	58					
-----																



# Strip Study Example (Cont.)

Muni. Code	On Road	Miles / Dir			Milepost Road	Milepost	Crash ID	Date
		From	From Road	Toward Road				
428	ADAMS	0.000	S THIRD	MADISON	999.999	98015535	1998-01-23	
428	MADISON	0.000	THIRD	MAIN	999.999	97184529	1997-09-30	
428	MCNRCE	0.000	THIRD	WILSON	999.999	96178776	1996-09-19	
428	THIRD	0.000	ANDREW JACKSON	FOURTH	999.999	98056359	1998-03-25	
428	THIRD	0.000	ANDREW JACKSON		999.999	96237919	1996-12-04	
428	THIRD	0.000	JEFFERSON	FOURTH	999.999	98193406	1998-10-08	
428	THIRD	0.000	MADISON	ADAMS	999.999	98191616	1998-10-07	
428	THIRD	0.000	N MADISON	MAIN	999.999	98212675	1998-11-03	
428	THIRD	0.000	MCNRCE	WILSON	999.999	97034691	1997-02-21	
428	THIRD	0.000	MCNRCE	US 64	999.999	97030231	1997-02-14	
428	THIRD	0.000	MCNRCE	WILSON	999.999	97029145	1997-02-13	
428	THIRD	0.000	MCNRCE	WILSON	999.999	96175516	1996-06-15	
428	THIRD	0.019	E RANKIN	ANDREW JACKSON	999.999	97187120	1997-10-04	
428	THIRD	0.009	W WASHINGTON	JEFFERSON	999.999	98026743	1998-02-09	
428	THIRD	0.000	W WILSON	MAIN	999.999	99258041	1999-12-20	
428	WEST	0.000	WILSON		999.999	96028023	1996-02-05	
428	WILSON	0.009	S *LCL WINSETTE CIR	FOURTH	999.999	99120224	1999-06-24	
428	WILSON	0.019	N CAMPBELL	PINE	999.999	96256867	1996-12-27	
428	WILSON	0.009	N CHESTNUT	BRINKLEY	999.999	97025245	1997-02-08	
428	WILSON	0.009	N CHESTNUT	BRINKLEY	999.999	97025244	1997-02-08	
428	WILSON	0.019	N CHESTNUT	CAROLINA	999.999	97097521	1997-05-23	

# Strip Study Example (Cont.)

Step P - Review the crashes on the fiche report and compare them to the initial study to determine if there are any crashes that need to be added, deleted, or remileposted.

EXAMPLE:

<u>Adds</u>		<u>Remileposted</u>
96028023 1.45	96243509 1.91	99258041 1.98
96145144 0.30	96251310 1.62	
96175516 2.05	96256867 0.90	<u>Deletes</u>
96178776 2.05	97025244 1.65	NONE
96217726 1.46	97025245 1.65	

# Strip Study Example (Cont.)

Step Q - Click on the “**Modify**” icon

Step R - Go to the “Accident  
Adjustments” tab

The screenshot shows the 'TEAS Reports - Strip Analysis' application window. The 'Accident Adjustments' tab is active. The 'Study Area' section includes fields for Study Name (DTHARPEWASHSR1335), Location Text (SR 1335 in Washington County), County (WASHINGTON), Division Municipality (All and Rural), Y-Line Feet (50), Begin Date (1/1/1996), End Date (12/31/1999), Years (4), ADT (1700), ADT Route (40001335), K/A Coeff. (76.8), and B/C Coeff. (8.4). The 'Request Information' section has fields for Received, Courier Service, Requested By, Phone, Phone Ext., and Fax. The 'Last Update' section shows User ID (edtrain) and Date/Time (16 November 2000 09:04 AM).

# Strip Study Example (Cont.)

Step S - Click the “**Generate Lists**” button.

Step T - Highlight the crashes to be added in the “Fiche Minus Study Accidents List” table, then click the “**Include**” button

Step U - Highlight the crashes to be remileposted in the “Study Accidents List”, then click the “**Remilepost**” button

Step V - Highlight the crashes to be excluded in the “Study Accidents List”, then click the “**Exclude**” button

The screenshot shows the TEAS Reports - Strip Analysis software interface. The window title is "TEAS Reports - Strip Analysis". The interface is divided into several sections:

- Study Information:** Includes fields for Log No, Begin MP, End MP, and Road Code. Below these are buttons for "Generate Lists" and "Generate Study".
- Included Accidents:** Contains a "Table Input" section with a "Count" button and an "Import List" button.
- Fiche Minus Study Accidents List:** A table with columns "CrashID" and "Milepost". It contains several rows of data. Below the table is an "Include" button. An arrow labeled "Step T" points to this button.
- Study Accidents List:** A table with columns "CrashID" and "Milepost". It contains one row of data. Below the table are buttons for "Remilepost" and "Exclude". Arrows labeled "Step U" and "Step V" point to these buttons.
- Excluded Accidents:** A table with columns "CrashID" and "Milepost", currently empty.

Arrows from the text labels point to the corresponding elements in the screenshot:

- Step S:** Points to the "Generate Lists" button.
- Step T:** Points to the "Include" button in the "Fiche Minus Study Accidents List" section.
- Step U:** Points to the "Remilepost" button in the "Study Accidents List" section.
- Step V:** Points to the "Exclude" button in the "Study Accidents List" section.

(not used In this example)

# Strip Study Example (Cont.)

The screenshot shows the TEAAS Reports - Strip Analysis software interface. The interface is divided into several sections:

- Study Information:** Includes fields for Log File, Begin MP, End MP, and Road Code. Buttons for "Generate Lists" and "Generate Study" are present.
- Included Accidents:** A table with columns: Type, CrashID, Old MP, New MP, and Inclusion Code. The first row is highlighted in green. A "Submit" button is to the right of the table.
- Fiche Minus Study Accidents List:** A table with columns: CrashID and Milepost. It contains several rows of data. An "Include" button is below the table.
- Study Accidents List:** A table with columns: CrashID and Milepost. It contains one row of data. A "Remilepost" button is below the table.
- Excluded Accidents:** A table with columns: CrashID and Milepost. It is currently empty. An "Exclude" button is below the table.

Annotations with arrows point to specific elements:

- Step X:** Points to the "New MP" field in the "Included Accidents" table.
- Step W:** Points to the highlighted row in the "Included Accidents" table.
- Step Y:** Points to the "Submit" button.
- Step Z:** Points to the "Feature Inclusions" tab at the top of the window.

To remilepost crashes, complete steps W through Y:

Step W - Highlight the crash in the “Included Accidents” table and click the “**Enter**” key.

Step X - Assign a new milepost value to the crash

Step Y - Click on the “**Submit**” button

Step Z - Go to the “Feature Inclusion” Tab

# Strip Study Example (Cont.)

Step AA - Determine the features that need to be mileposted on the strip route. In this example, the following features need to be added:

<u>FEATURE TEXT</u>	<u>MP of Feature</u>
PLYMOUTH CITY LIMITS	0.70
SR 1336/BATEMAN ST	1.08
START OF THIRD ST	1.96
HYMAN LANE	1.01
CAMPBELL ST	0.88
PINE ST	0.80
GOLF ST	1.36
WASHINGTON ST	2.20
JEFFERSON ST	2.11
MONROE ST	2.04
FOURTH ST	1.88
RR TRACKS	1.81
CHESTNUT ST (NORTHERN END)	1.79
CHESTNUT ST (SOUTHERN END)	1.60
US 64	0.00
POST OFFICE	2.13
WALMART PVA	1.85

(Note - repeat Steps AA through BB for each feature to be added)

# Strip Study Example (Cont.)

Step BB - Enter the text of the new feature

Step CC - Enter the milepost value of the new feature

Step DD - Click the “**Generate Study**” button to generate the final study

Step EE - Click the “**Save**” button to save the final study

Step EE

Step BB

Step CC

Step DD

Feature	Milepost
PLYMOUTH CITY LIMITS	0.70
SR 1336/BATEMAN ST	1.08
START OF THIRD ST	1.96
HYMAN LANE	1.01
CAMPBELL ST	0.88
PINE ST	0.80
GOLF ST	1.36
WASHINGTON ST	2.20
JEFFERSON ST	2.11
MONROE ST	2.04
FOURTH ST	1.88
RR TRACKS	1.81
CHESTNUT ST (NORTHERN END)	1.79
CHESTNUT ST (SOUTHERN END)	1.60