

# MARKINGview



## User's Guide

Version 8.4 - 2013



December, 2013

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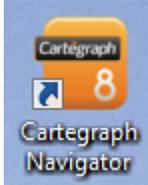
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## MARKINGview Overview

MARKINGview is an asset management tool used to capture and maintain traffic markings information, track the locating of no passing zones, capture reflectivity reading values and track the history of the pavement markings. It is used by WisDOT for tracking current and historical markings information — including marking code, bid item information, location data and application/project data.

### Starting CarteGraph

1. Locate the CarteGraph Navigator icon on your desktop.



2. Double-click on the icon.

### Open an Existing Data Link to MarkingView

CarteGraph will start up in the same module that you were working in when you last closed the program. If you do use multiple modules you choose them by selecting the appropriate datalink file.

1. Click on **File** on the Menu Bar
2. Choose **Open Datalink** or Click  on the Tool Bar.

*a.* Select the datalink (file ending with .cgd) from the list.  **Markings.cgd**

3. Click 

## Understanding the CarteGraph Navigator Bar

Each CartêGraph module has a button on the Navigator Bar. The Navigator Bar may be turned off on your install of CarteGraph. You may turn it on and off by choosing the View option from the Menu Bar and then selecting Navigator Bar on the options list. CTRL-W is the shortcut key to turn it on and off.

By default, the groups on the Navigator Bar represent each installed module.

Click on a Group Button (MARKINGview) to view the Page Icons.

Group Buttons

Each group consists of Pages that are categorized by labels called Page Icons.

Click on a Page Icon (Markings) to view the forms for this application.

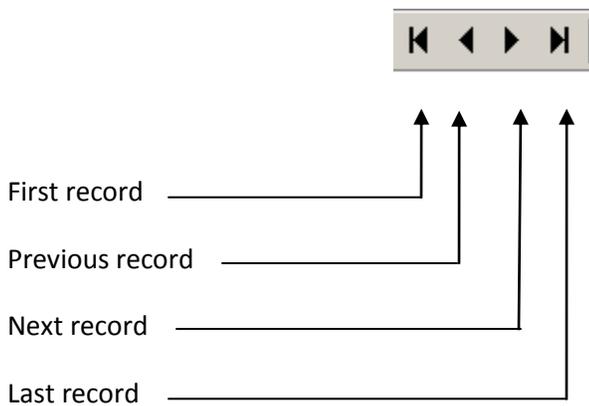
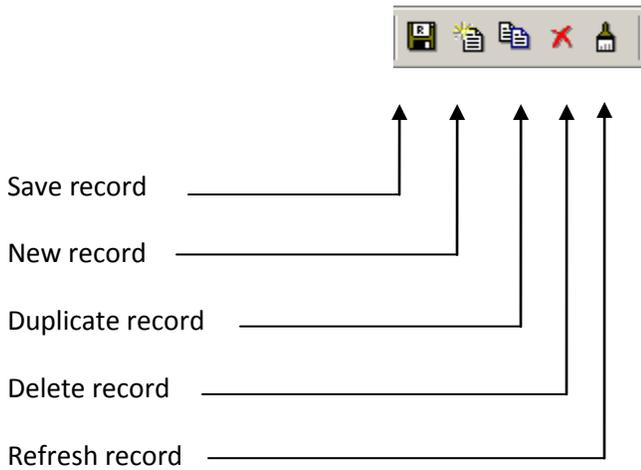
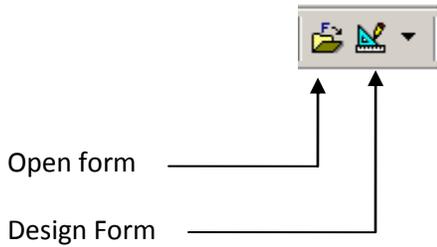
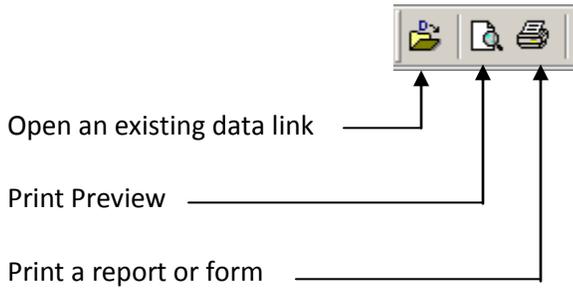
Page Icons

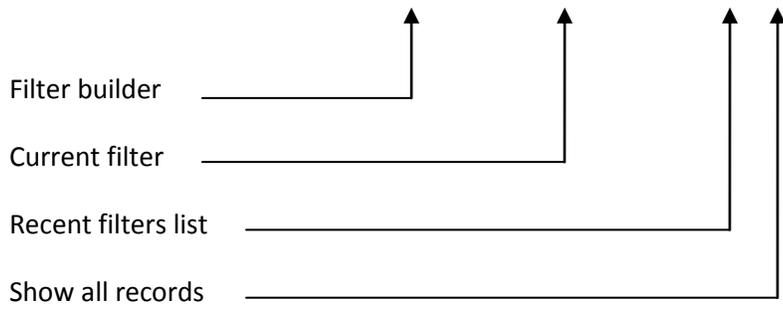
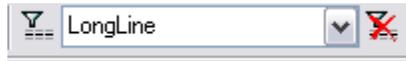
This manual focuses only on the MarkingView module.



## Understanding CarteGraph's Toolbar

The Toolbar contains icon shortcuts to commonly used tasks.

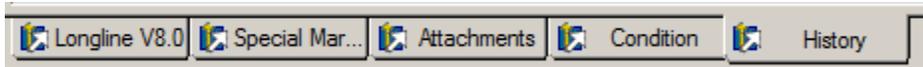




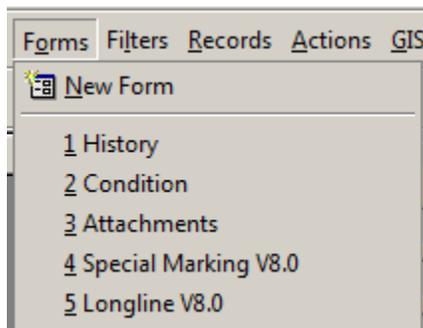
## Viewing Data Using Forms or Record Control

1. Forms in CarteGraph control the data that is displayed on the screen. Multiple forms can be found in a single module. In MarkingView there are 5 forms:
  - a) Longline
  - b) Special Markings
  - c) History
  - d) Condition
  - e) Attachments
2. Forms are selected by clicking on the appropriate tab at the bottom of the screen.

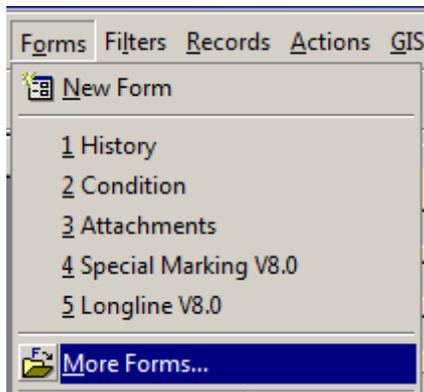
Forms Tabs located at the bottom of the MarkingView screen.



3. Standard forms are installed when MARKINGview is initially installed.
4. To open a form that has been closed:
  - a) Click **Forms** on the Menu Bar and select the form you wish to open from the recent forms list.

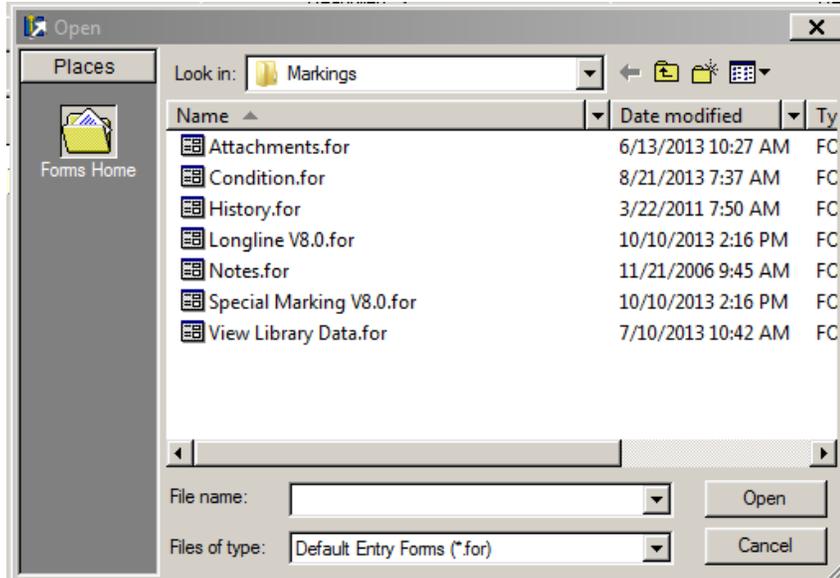


5. To open a new or revised form:
  - a) Click Forms on the Menu Bar.



- b) Click More Forms

c) The Open window will appear



d) If you do not see the above screen Navigate to the C:\Carte Files\forms\Markings directory.

## Marking Longline Form

Back 5 Forward 5 TRAFFIC OPERATIONS Longline Ver 8.0

All fields that are labeled with bold font are mandatory

**Location**

Region: Southwest - Madison  
 County: Jefferson  
 Route: 106E

Site ID Start:

Highway Segment: Dane Co line to N Wilson Ave(Ft Atk)

Pavement Type: Asphalt

Start Marker: 5 mi  
 End Marker: 5.23 mi

Start Frame #: 526  
 End Frame #: 549  
 Date of CD: 03/01/2004

Map Reference:

DOT Reference:

Comments: Marking record migrated to Oracle by MFR on July 22, 2005

**Description**

Code: Y-Solid-Solid  
 Color: Yellow  
 Type: Longline Yellow

Marking Location: Center Line  
 Segment Length: 1214.4 ft  
 Painted Footage: 2429  
 Measured Footage: 2429  
 Footage Verified:

Applied Date: 07/11/2001

**Example Marking Image:**

**Next Scheduled Activities**

Next Activity Date:   
 Next Activity Type: Apply - New Epoxy

**Contract-Related**

Bid Item Number: 646.0106  
 Units and Description: L.F.  
 Pavement Marking, Epoxy, 4-Inch

Application Method:

Current Project #:

Contract Type:

Issued To:

Performed By: Century Fence  
 Description:

Ra - Reflectivity Value:

Maintaining Authority: Wisconsin DOT

**Spotting**

Last Time Spotted:   
 Next Spotting:   
 Spotted By Who: State Forces  
 Spotting Distance: .21  
 Special No Passing Zone:

Spotting Notes: Speed Limit 55

**Photolog Update**

Update THIS Entry New CD Year  
 Update ALL Entries

**Previous Photolog Information**

Date of CD\_bak:   
 Start Marker\_bak:   
 Start X\_bak:   
 Start Y\_bak:   
 Start Frame Number\_bak:   
 End Marker\_bak:   
 End X\_bak:   
 End Y\_bak:   
 End Frame Number\_bak:

**Historical**

Activity	When Ended
Initial Data E	04/14/2005
Initial Data E	04/14/2005
Initial Data E	08/11/2005
Correct Data	09/13/2005

Record 1 of 11

Markings ID: -1174176639 Viewing Record: 2 of 160304 Total: 160304 Filter Sort

6. The Longline form displays only one record at a time.

7. Movement from record to record can be accomplished by using the record navigation buttons on the



- Movement by 5 records forward or backward is accomplished by using the large navigation buttons on

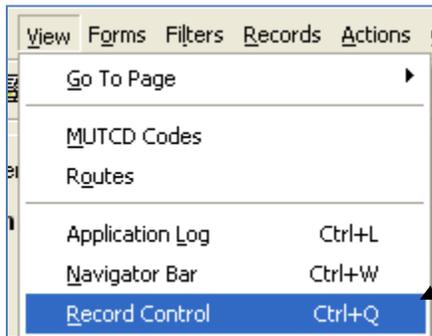


the form.

## Record Control View

Another view that will show multiple records in a grid is referred to as Record Control. It can be turned on and off.

- Turn Record Control on or off by choosing **View** from the Menu and clicking on **Record Control**. Note Ctrl-Q is the Quick Key to turn it on and off.



- A grid will appear at the lower part of the form window.

Markings ID: 614 Viewing Record: 1 of 15781 Total: 25739 Filter Sort											
	County	Route	Site ID	Map Reference	Start Marker	End Marker	Eid Item Number	Code	Description	Application Method	Applied Date
▶	Pierce	_010E	Minnesota State Line		0 mi	0.12 mi	646.0103	W-Dash-4-Inch		Surface	05/20/2010
	Pierce	_010E	Minnesota State Line		0 mi	0.15 mi	646.0103	W-Edgeline-4-Inch		Surface	05/20/2010
	Pierce	_010E	Minnesota State Line		0 mi	0.14 mi	646.0103	Y-Solid-Solid		Surface	05/20/2010
	Pierce	_010E	STH 35		0.12 mi	0.16 mi	646.0123	W-Turnlane-8-Inch		Surface	05/20/2010
	Pierce	_010E	STH 35		0.17 mi	0.868 mi	646.0103	Y-Solid-Solid		Surface	05/20/2010
	Pierce	_010E	STH 35		0.18 mi	0.94 mi	646.0103	W-Dash-4-Inch		Surface	05/20/2010
	Pierce	010F	Pearl St		0.868 mi	0.868 mi	646.0103	Y-Double Solid-Solid		Surface	05/20/2010

- The columns can be rearranged by clicking the column title with the left mouse button and then holding down the left mouse button it can be dragged across the screen to a new location. This is similar to moving a column in Excel.
- The height of the Record Control window can be adjusted. Place the mouse pointer between the bottom of the form and the top of the record control grid until a double arrow appears. Adjust the height of the grid by dragging the window upward or downward.

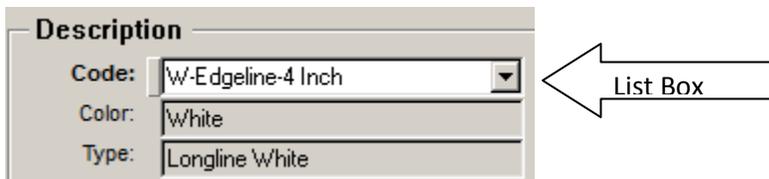


## Understanding and Viewing Libraries

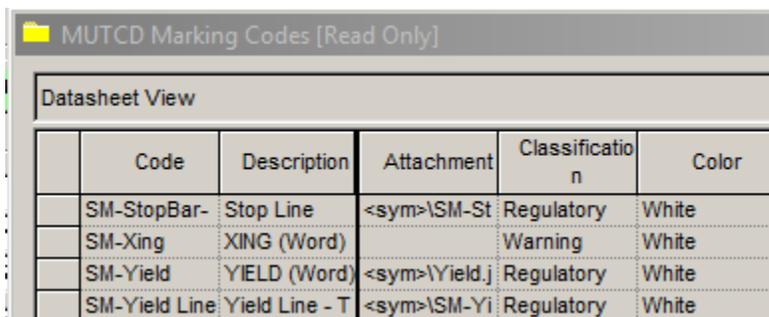
Libraries are database tables used to store information that is used repeatedly. This information is usually used by more than one recordset. Libraries are useful tools for ensuring data integrity and consistency. A user usually encounters a library when they use a list box for selecting data.

### List Boxes

List boxes used for lookup fields are the 'window' to a library. Libraries provide a way to limit user choices. Selecting a value in a list box is easier than typing because it is a "point and click" event. Typographical errors are eliminated. This makes it easier to perform searches, filters, sorts, and reports.



The image shows a form titled "Description". It has three fields: "Code" with a dropdown list box showing "W-Edgeline-4 Inch", "Color" with a text box containing "White", and "Type" with a text box containing "Longline White". An arrow points to the dropdown list box with the label "List Box".



The image shows a Datasheet View for a table named "MUTCD Marking Codes [Read Only]". The table has the following columns: Code, Description, Attachment, Classification, and Color. The data rows are:

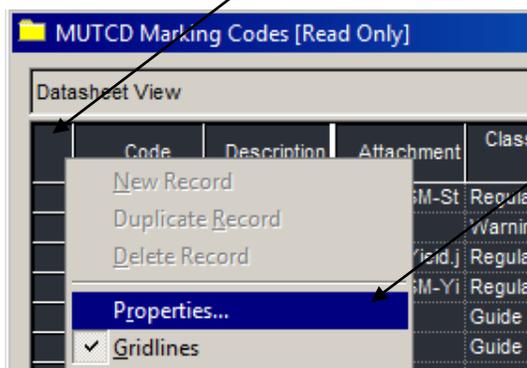
Code	Description	Attachment	Classification	Color
SM-StopBar-	Stop Line	<sym>\SM-St	Regulatory	White
SM-Xing	XING (Word)		Warning	White
SM-Yield	YIELD (Word)	<sym>\Yield.j	Regulatory	White
SM-Yield Line	Yield Line - T	<sym>\SM-Yi	Regulatory	White

The list box displays the value that will be selected and additional fields (such as description) that make it easy to select the appropriate value. The exact columns displayed can be customized.

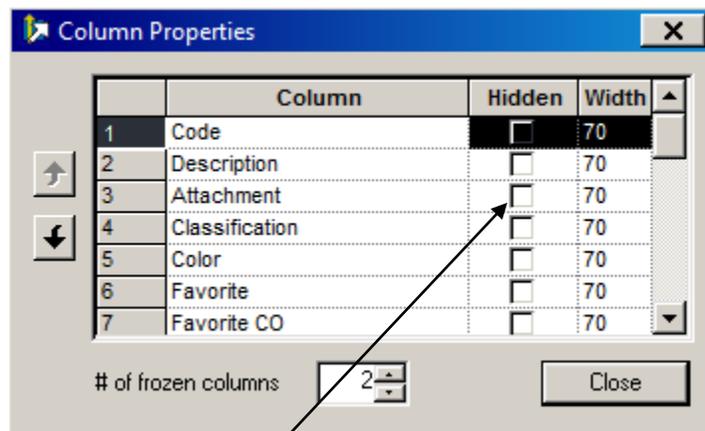
### Change Library or Grid Columns

From a form containing the field:

1. Click  to open the list box.
2. Click . The library will be displayed.
3. Right-click the upper left corner of the display grid. Choose Properties.



4. The Column Properties window is displayed.



5. By un-checking the **Hidden** box a column will no longer be displayed.

6. Selecting a field and clicking either of the arrow buttons  changes the field's position on the grid.

## Markings Management Overview

When a new pavement marking is installed a new markings record must be entered in to MarkingView.

During a construction project where new pavement surface is installed and new pavement markings are applied the new markings must be entered in to MarkingView. Old marking records can be retired and new marking records entered or the existing record can be modified. *Refer to the [RetireOneRecord](#) section on page 26 of this manual for the process to use to retire a marking record.*

On a resurface project the markings location may not change so the existing marking record can be updated with information like the application date and project number. If the marking location is changed then modify the existing record or retire the existing record and enter a new record. An example would be if the center line marking locations changed one could simply change the start and end markers.

Generally an as-built plan is used to identify the markings that were installed and the location of the markings. A field review is recommended to verify installations. During field reviews new markings might be found that need to be added or segment lengths may need to be changed. Special markings also need to be field reviewed and measured.

Pavement marking locations may be changed or newly installed markings added as traffic conditions change for example no passing zones may be lengthened or shorted.

There are standards for entry of marking records that you should become familiar with. Reference [Standards For Entering Records](#) on page 49 in this manual.

There are also standard rules for data entry that you should become familiar with.

### Standards for Data Entry

- Capital letters shall be used for the first letter for street names. Small letters shall be used for all other letters for locations unless they are used in the formal name of the location described. (Example: Eau Claire)

- DO NOT USE ALL CAPITAL LETTERS or PERIODS in fields like the Site ID or Highway Segment.

- Abbreviations that SHALL be used are as follows:

<b>Ave</b>	Avenue
<b>Bldv</b>	Boulevard
<b>Cir</b>	Circle
<b>Co</b>	The use of County in a name, such as Barron Co Line
<b>Ct</b>	Court
<b>CTH</b>	County Trunk Highway
<b>Dr</b>	Drive
<b>GRR</b>	Great River Road
<b>Hwy</b>	Highway
<b>IH</b>	Interstate Highway
<b>Jct</b>	Junction
<b>La</b>	Lane
<b>NSB</b>	National Scenic Highway

- Pkwy** Parkway
- Pl** Place
- Rd** Road
- Sq** Square
- SSB** State Scenic Byway
- St** Street
- STH** State Trunk Highway
- Ter** Terrace
- Tr** Trail
- USH** US Highway

- When having to write a number of words for a description or Site ID field, only one “space” shall be used to separate words.
- The use of extra periods, such as.....shall not be used.
- The use of dashes shall be avoided unless they are used in the name itself.
- Quote Marks “ ” shall not be used in any field other than within Notes or Comment fields.

## Entering a New Longline Marking Record

Back 5
Forward 5Longline Ver 8.0

All fields that are labeled with bold font are mandatory

**Location**

Region: Southwest - Madison

County: Jefferson

Route: 106E

Site ID Start:

Highway Segment: Dane Co line to N Wilson Ave(Ft Atk)

Pavement Type: Asphalt

**Start Marker** Start Marker: 5 mi

Lat: Long: Start Frame #: 526

**End Marker** End Marker: 5.23 mi

Lat: Long: End Frame #: 549

Date of CD: 03/01/2004

Map Reference:

DOT Reference:

Comments: Marking record migrated to Oracle by MFR on July 22 2005

**Description**

Code: Y-Solid-Solid

Color: Yellow

Type: Longline Yellow

**Marking Location:** Center Line

Segment Length: 1214.4 ft

Painted Footage: 2429

Measured Footage: 2429

Footage Verified:

**Applied Date:** 07/11/2001

**Example Marking Image:**

**Next Scheduled Activities**

Next Activity Date:

Next Activity Type: Apply - New Epoxy

**Contract-Related**

**Bid Item Number:** 646.0106

Units and Description: L.F.

Pavement Marking, Epoxy, 4-Inch

Application Method:

Current Project #:

Contract Type:

Performed By: Century Fence

Description:

Ra - Reflectivity Value:

Maintaining Authority: Wisconsin DDT

**Spotting**

Last Time Spotted:

Next Spotting:

Spotted By Who: State Forces

Spotting Distance: .21

Special No Passing Zone:

Spotting Notes:

Speed Limit 55

**Photolog Update**

Update THIS Entry

Update ALL Entries

**Previous Photolog Information**

Date of CD\_bak:

Start Marker\_bak:

Start X\_bak:

Start Y\_bak:

Start Frame Number\_bak:

End Marker\_bak:

End X\_bak:

End Y\_bak:

End Frame Number\_bak:

**Historical**

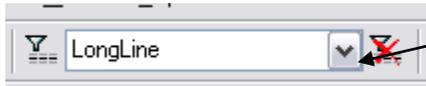
Activity	When Ended
Initial Data E	04/14/2005
Initial Data E	08/11/2005
Correct Data	09/13/2005

Record 1 of 11

Attachments Condition History Longline V8.0 Special Mar...

Markings ID: -1174176639 Viewing Record: 2 of 160304 Total: 160304 Filter Sort

Before entering a new record you should filter to the existing longline records. You do this by selecting the LongLine filter from the filter drop down list. Click the down arrow and then pick the LongLine filter.



If you are modifying existing records you will want to use additional filters to locate the specific records you would like to work on. See the [Filter Builder Overview](#) section on page 65 of this manual.

To start a new record you should first toggle the fields that you want to carry over to the new record. You do this by clicking the green toggle on the left side of each field you want to duplicate.

Press the **New Record Button** on the Tool Bar.



## Location Data

### Region: Lookup field - Mandatory

Select your Region from the drop down list or skip this field if you have it toggled from a previous record.

### County: Lookup field - Mandatory

Select the County where the marking is located or skip this field if you have it toggled from a previous record.

### Route: Lookup field – Mandatory

Select the route from the drop down list or skip is field if you have it toggled from a previous record. *Refer to Determining Highway Predominance below.*

### Site ID Start: Lookup field - Optional

This field identifies where the markings are in reference to the nearest intersecting street. **Be sure to check if this Site ID exists before adding a new one.** Make sure to use the standard data entry format when entering a new site ID.

The Site ID field is used to help identify or group together similar records in a similar location. Good example of a Site ID would be a crossroad, signal system, bridge number, ramp description (e.g. 151 N to S 39 onramp).

## Determining Highway Predominance

There is an order of predominance that must be used when two or more highways run the same route. It is as follows:

- Interstate Highway
- U.S. Highway
- State Trunk Highway
- County Trunk Highway

When two highways of the same classification travel together for a distance, use the highway number of the lowest numbered highway.

When two highways of different classifications travel together for a distance, use the highway number according to the predominance above.

*Routes are entered according to the published standards manual. Routes are stored in a Route library that is maintained by the BHO Asset Management Specialist. They are entered according to set standards.*

*All numbered routes are entered in the format **\_###D** where ### = the route number and D = the direction. Note it must be a 3-digit number, e.g. highway 2 is **\_002E** or **\_002W**. County trunk routes are entered in the format **CTH AAA-D** where CTH is required, AAA = the alpha name of the route and D = direction. Example CTH PP-E is county highway PP going east.*

### Highway Segment: Lookup field – Optional

This field serves as a pre-built filter for a segment of road.

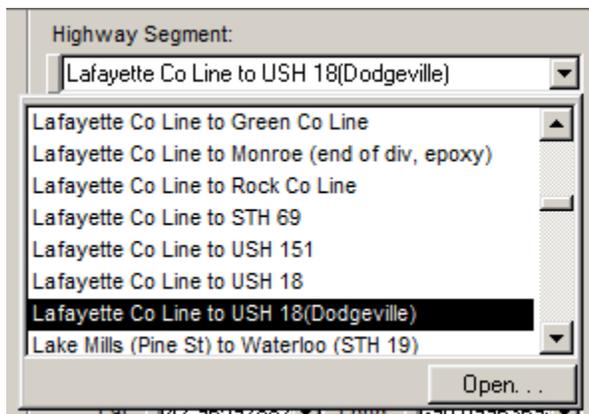
When filtering to this field, you would get all the records within this segment both Longline and Special Markings.



Highway Segment:  
Lafayette Co Line to USH 18(Dodgeville)

## Entering New Highway Segments

To enter a new Highway Segment you must first click the Open button on the field.

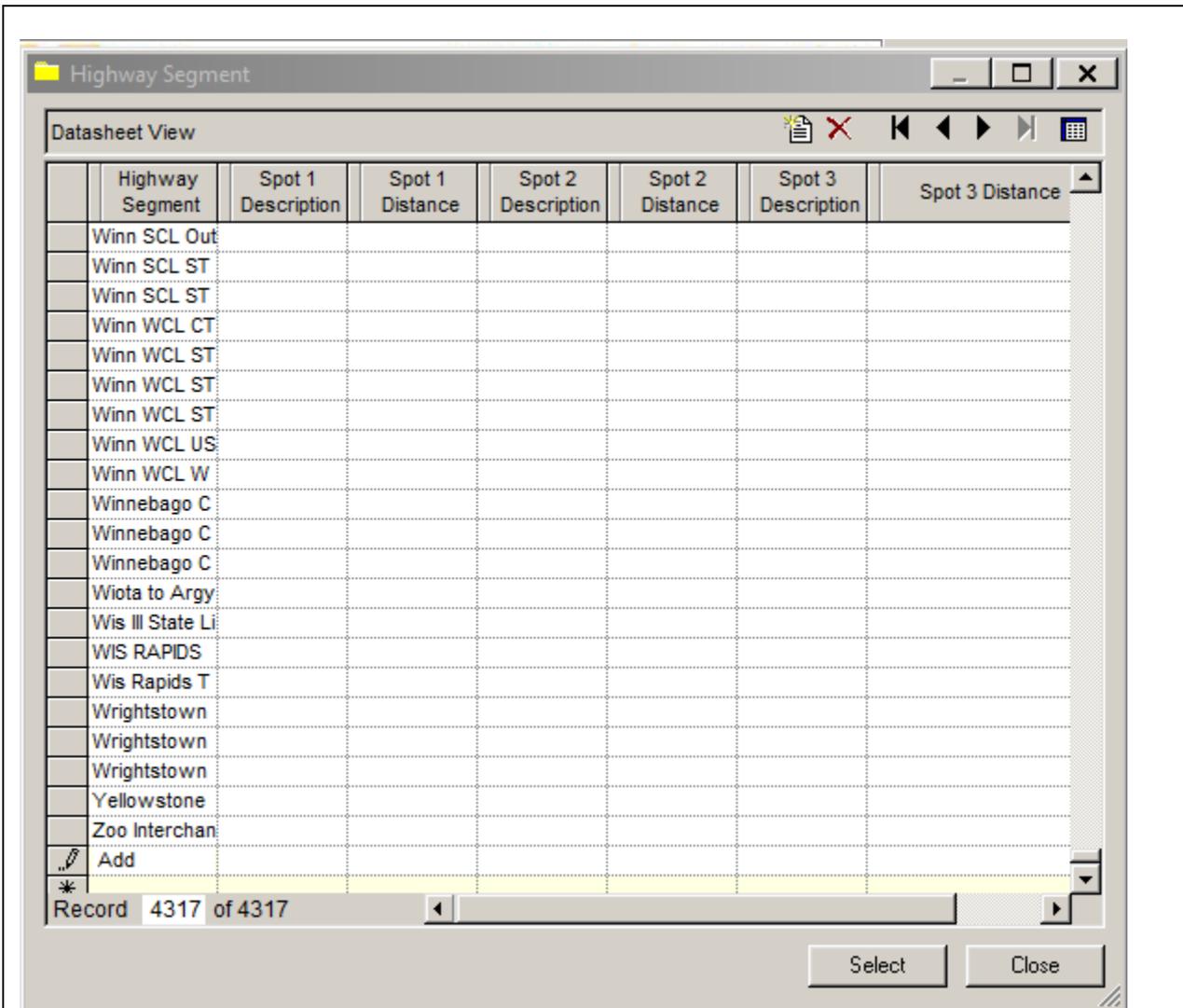


Highway Segment:  
Lafayette Co Line to USH 18(Dodgeville)

- Lafayette Co Line to Green Co Line
- Lafayette Co Line to Monroe (end of div, epoxy)
- Lafayette Co Line to Rock Co Line
- Lafayette Co Line to STH 69
- Lafayette Co Line to USH 151
- Lafayette Co Line to USH 18
- Lafayette Co Line to USH 18(Dodgeville)
- Lake Mills (Pine St) to Waterloo (STH 19)

Open...

The library will open.



To add a new Highway Segment you must go to the last line in the window or once the window is opened you can right mouse click on the left margin of the window and select New Record.



### Highway Segment field

A Highway Segment would typically be used for project related work and identifies the starting and ending points of a construction project limits. The Highway Segment entry should start with a route and then the starting and ending points of the segment. You must follow the standard format as discussed in the [StandardsForDataEntry](#) earlier in this manual on page 10.

*Example: USH 12 Freedom St Fall Creek to Plum St Fall Creek*

**Pavement Type: Lookup field – Optional**

Select the type of pavement surface the marking is applied to.

Pavement Type: Concrete - Tined

**Start Marker and End Marker from PhotoLog**

Locate the marking in PhotoLog. You should be as close to the marking as possible and still be able to see it on the frame you are viewing. While the PhotoLog screen is displayed, hold down the Control key and press the “X” key on your keyboard. This procedure will “capture” the information from PhotoLog.

Go back to the MarkingView Form and press the “**Start Marker**” button. The Route, Start Marker, Start Frame Number, X, Y and Date of CD will all automatically fill in.

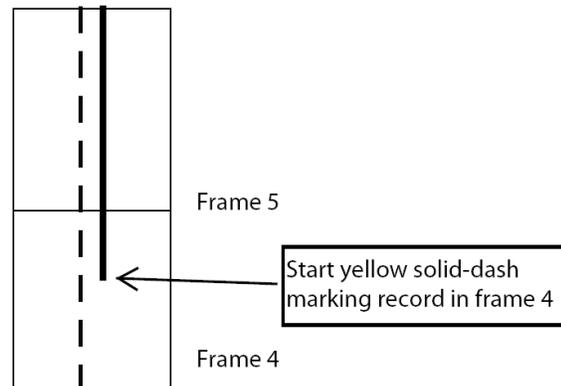
Repeat this process for the **End Marker** location.

In the case of markings that are located on a non-PhotoLog route, for example a frontage road, the Marker fields must be entered manually. For further instructions click on this link to view the [FrontageRoads](#) section on page 55 of this manual.

**Start Marker** Start Marker: 36.69 mi  
Lat: 42.93738135 Long: -90.1292541  
Start Frame #: 3695

**End Marker** End Marker: 39.22 mi  
Lat: 42.96592882 Long: -90.0996369  
End Frame #: 3948  
Date of CD: 08/25/2008

If a marking starts in one PhotoLog frame and continues to the next PhotoLog frame you should enter the frame it starts in no matter how little of it is showing.



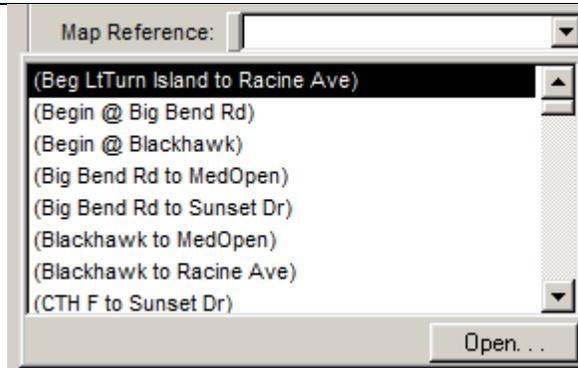
## PhotoLog Player Display

The screenshot shows the 'Roadview Player' window. The title bar reads 'Roadview Player by Mandli Communications, Inc. Traveled Route: 178N STN Mile: 6.163'. The menu bar includes 'File', 'Image', 'Search', 'Multi Camera', and 'Help'. Below the menu is a control bar with navigation buttons (back, forward, stop, play, refresh), a 'Frame: 642' field, a 'Go' button, 'Frame Inc: 1', a 'Speed' slider, and a 'Mag' button. The main display area is split into two panels showing a road scene. Below the images, the following metadata is displayed: 'route: 178N county: CHIPPEWA date: 06/30/2010 plm: 006.160'. Below this, a file path is shown: '\\dots\plog1p\photolog\Fig5\178N\_P6\_2010\Front\Dir\_006\F\_00642.jpg'. Arrows point from labels below to specific parts of the metadata: 'Route' points to '178N', 'Lat' points to '44.98945864', 'County' points to 'CHIPPEWA', 'Long' points to '-91.36192147', 'Date of CD' points to '06/30/2010', and 'Mile' points to '006.160'.

There is a tool designed by the photolog group called **Distribution Manager** which can be used to create CDs of selected routes to use in the field. Documentation on the use of the Distribution Manager can also be found at this web page.

### Map Reference: User Entry - Optional

This field is used for identification of Special Markings locations. Refer to the Special Markings [Map Reference](#) section on page 31 for further information on this field.



### DOT Reference: Optional Text

Used by regional preference



**Comments: Optional Text**

You may use this field to make any notes about the markings identified in this record.

Use consistent verbiage in the Comments field if you wish to later filter on this verbiage. See discussion on [filtering](#) on page 65 of this manual.

Comments:

**Delete Flag: Checkbox – Optional**

Check this flag if the marking was entered erroneously. When the box is checked the record will no longer appear in your data. These are deleted on an annual basis by the Inventory Management Specialist.

Delete Flag:

Use the Retire Record process to remove marking records that were changed or created that you want to retain a history of. No passing zone markings could be an example of records you would want to retire and not delete.

**Description Data**

**Code: Lookup field – Mandatory**

Select from the dropdown list a code which identifies what kind of marking is being recorded. The **Color** and **Type** will fill in automatically once the Code is selected. These are locked and cannot be modified except by an administrator of the program.

Code	Description	Attachment	Classification	Color	Favo
SM-StopBar-24-Inch	Stop Line	<sym>ISM-St	Regulatory	White	<input type="checkbox"/>
SM-Xing	XING (Word)		Warning	White	<input checked="" type="checkbox"/>
SM-Yield	YIELD (Word)	<sym>Yield.j	Regulatory	White	<input type="checkbox"/>
SM-Yield Line	Yield Line - Triangles	<sym>ISM-Yi	Regulatory	White	<input checked="" type="checkbox"/>
SP-Exception	Code to cover exceptions or special circumstances		Guide	White	<input type="checkbox"/>
SP-RA-Exception	Code to cover exceptions or special circumstances on roundabouts		Guide	White	<input type="checkbox"/>
W-Dash-4 Inch	Single, Broken, White Lane Line	<sym>W-Das	Regulatory	White	<input checked="" type="checkbox"/>
W-Dash-4 Inch					<input type="checkbox"/>
W-Edgeline-4 Inch	Single, Solid, White Line, 4 inch	<sym>W-Edg	Regulatory	White	<input checked="" type="checkbox"/>

**Code:** Marking code that is assigned by the Statewide Markings Engineer. It is a unique identified for various types of markings applied.

**Favorite fields:** Checking these boxes will allow you to use Quick Filters to filter to only the Bid Item numbers you have marked as a “Favorite”. See [QuickFilters](#) section on page 68 for further information.

**Color:** Color of the marking – white or yellow.

**Description:** Description of the code.

**Painted Area:** Used in calculation specific footage for linear marking measurements. Special markings are not linear thus the painted area is equal to 1. The Painted Area is multiplied by the Segment Length

to obtain the actual painted footage for the marking.

**Type:** Identifies if the marking is a point or a linear measurement.

**Type of Marking:** Identifies whether this marking is a longline white, longline yellow or special marking.

**Marking Location: Lookup field – Mandatory**  
Select the location where the marking has been applied on the road.

Marking Location:

**Segment Length: Read Only - Calculated**  
Calculated based on the distance from the Start Marker to the End Marker.

Segment Length:   
Segment Length = (End marker – Start marker)

**Painted Footage: Read Only- Calculated**  
This field is a calculated field and takes the Segment Length times the numerical value in the Painted Area field. The Painted Area field is filled in when entering Code information and is a Read Only field.

Painted Footage:   
Painted Footage = (Painted Area \* Segment Length)

**Measured Footage: User Entry – Optional**  
The initial value of this field will be the same as the Painted Footage field. The calculated value can be overwritten with a value that you have measured in the field.

Measured Footage:   
Footage Verified:

**Footage Verified: Checkbox – Optional**  
Check this box if the value in the Measured Footage has been field verified. Checking this field will prevent it from being recalculated when if the Measured Footage changes due to a change in marker amounts.

**Note:** When the start marker or end marker is modified and the result is the footage changes this field will recalculate **only** if the Footage Verified is **not** checked.

Segment Length:   
Painted Footage:   
Measured Footage:   
Footage Verified:

**Applied Date: User Entry - Mandatory**  
Enter the approximate date or the end of the month this marking was applied.

Applied Date:

**Next Activity Date & Next Activity Type: User Entry - Optional**  
Identify in these fields, the approximate date when you would work on this section of markings in the future. This field and the Next Activity Type field will provide you the flexibility of forecasting when markings are due for some type of activity.

**Next Scheduled Activities**  
Next Activity Date:   
Next Activity Type:

## Contract Related Data

### Bit Item Number: Lookup field- Mandatory

The **Bit Item Number** column lists and identifies the formal numbers that are used for bidding purposes on contracts.

### Units and Description: Read Only

These fields are moved in automatically from the Bid Item library.

### Contract-Related

Bid Item Number: 646.0106

Units and Description: L.F.

Pavement Marking, Epoxy, 4-Inch

**Bid Item Number**

Datasheet View

	Bid Item Number	Description	Average	Favorite	Favorite
	646.0101.S	Pavement Marking, Paint, High Build, 4-inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0103	Pavement Marking, Paint, 4-Inch		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	646.0104.S	ZZ-Obsolete May 2008, Pavement Marking, Polyurea, 4-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0105.S	ZZ-Obsolete May 2008, Pavement Marking, Grooved, Polyurea		<input type="checkbox"/>	<input type="checkbox"/>
▶	646.0106	Pavement Marking, Epoxy, 4-Inch		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	646.0109	Pavement Marking, Preformed Plastic, 4-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0113	Pavement Marking, Paint, 6-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0114.S	ZZ-Obsolete May 2008, Pavement Marking, Polyurea, 6-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0115.S	ZZ-Obsolete-don't use-Pavement Marking, Grooved, Raised P		<input type="checkbox"/>	<input type="checkbox"/>
	646.0116	Pavement Marking, Epoxy, 6-Inch		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	646.0119	Pavement Marking, Preformed Plastic, 6-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0121.S	Pavement Marking, Paint, High Build, 8-inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0123	Pavement Marking, Paint, 8-Inch		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	646.0124.S	ZZ-Obsolete May 2008, Pavement Marking, Polyurea, 8-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0125.S	ZZ-Obsolete May 2008, Pavement Marking, Grooved, Polyurea		<input type="checkbox"/>	<input type="checkbox"/>
	646.0126	Pavement Marking, Epoxy, 8-Inch		<input checked="" type="checkbox"/>	<input type="checkbox"/>
	646.0128	Pavement Marking, Preformed Thermoplastic, 8-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0129	Pavement Marking, Preformed Plastic, 8-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0133	Pavement Marking, Paint, 12-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0134.S	ZZ-Obsolete May 2008, Pavement Marking, Polyurea, 12-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0135.S	ZZ-Obsolete May 2008, Pavement Marking, Grooved, Polyurea		<input type="checkbox"/>	<input type="checkbox"/>
	646.0136	Pavement Marking, Epoxy, 12-Inch		<input type="checkbox"/>	<input type="checkbox"/>
	646.0138	Pavement Marking, Preformed Thermoplastic, 12-Inch		<input type="checkbox"/>	<input type="checkbox"/>

Record 5 of 308

Select Close

**Bid Item Number and Description:** The formal number and description that is used for bidding purposes on contracts. Bid Item numbers are assigned by the Statewide Markings Engineer and additions or modifications can only be performed by an administrator of the program.

**Unit:** Unit of measurement that is used for bidding and payment.

**Favorite fields:** Checking any of these boxes will allow you to use Quick Filters to filter to only the Bid Item numbers you have marked as a "Favorite". See [QuickFilters](#) section on page 68 for further information.

**Application Method: Lookup field – Optional**

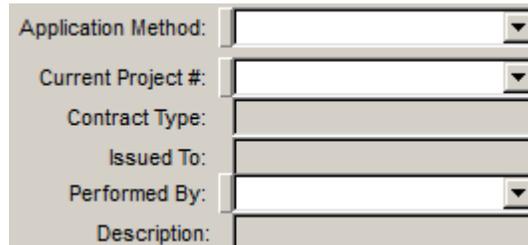
Select from the options in the drop down list.  
Make s

**Performed By : No longer used – Read Only**

This field has been replaced by the **Issued To** field in the **Project Number** library. It is still displayed to show archived data.

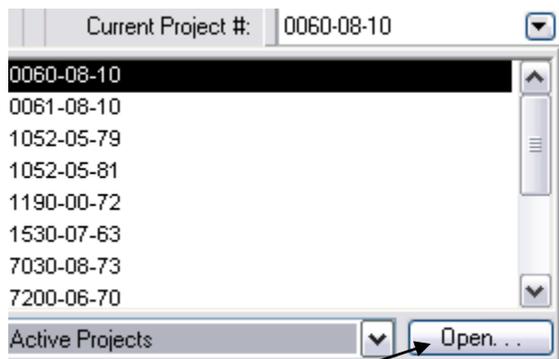
**Current Project #: Lookup field – Optional**

Select the project number from the drop down list. You may add a new one if the number you need does not exist. See below for the process to enter a new project number.



**Adding a new project number**

To open the Project Number library click the drop down arrow in the **Current Project #** field.



Then click Open

Right mouse click on the left margin of the library form and select **New Record**.



This will position your cursor at the end of the library on a blank row.

Project Number	Contract Type	Description	Issued To	Subcontractor	Warranty Expiration	Active Project	Favorite
9227-00-27						<input type="checkbox"/>	<input type="checkbox"/>
9227-00-29	ODP (Operations Development Program)	District 6 3R Various Highways - 2002	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-34	ODP (Operations Development Program)	District 6 Backbone Various Highways - 2002	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-40	ODP (Operations Development Program)	District 6 Various Highways - 2005	Contractor Swanston			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-43	ODP (Operations Development Program)	District 6 3R Various Highways - 2002	Contractor Guide Lines L			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-46	ODP (Operations Development Program)	District 6 Various Highways - 2004	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-48	ODP (Operations Development Program)	District 6 Various Highways - 2003	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-50	ODP (Operations Development Program)	Northwest Region Various Highways (Lower Counti	Contractor United Rentals			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-52	ODP (Operations Development Program)	Nothwest Region Various Highways - 2007	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-54	ODP (Operations Development Program)	Northwest Region Various Highways - 2008	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-00-69	ODP (Operations Development Program)	Northwest Region Various Highways - 2009	Contractor Century Fenc			<input type="checkbox"/>	<input type="checkbox"/>
9227-01-06	LET (Improvement Project)	NW Region Wide Crackfill & Sealcoat -2010	Contractor Century Fenc			<input checked="" type="checkbox"/>	<input type="checkbox"/>
9227-01-12	ODP (Operations Development Program)	Northwest Region Various Highways - 2010 & 2011	Contractor Century Fenc			<input type="checkbox"/>	<input checked="" type="checkbox"/>
9536-01-73						<input type="checkbox"/>	<input type="checkbox"/>
D0911-126	LET (Improvement Project)	USH 10 Intersection at Durand St (McDonalds Devel	Contractor Century Fenc			<input checked="" type="checkbox"/>	<input type="checkbox"/>
F55-94507	TIA (Traffic Impact Analysis) or Permit Proje	STH 54 HO-CHUNK Indian Reservation - Intersection	Contractor Guide Lines L			<input type="checkbox"/>	<input type="checkbox"/>
P1338	TIA (Traffic Impact Analysis) or Permit Proje	STH 29 / STH 35 Eagle Ridge Business Park Entranc	Contractor AAA Striping			<input checked="" type="checkbox"/>	<input type="checkbox"/>
						<input checked="" type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

Note the pencil in the left margin – this is an indicator that the form is waiting for data entry.

### Project number

Enter the new project ID number and be sure to use only a valid format of #####-##-##.

### Contract Type

Select the appropriate Contract Type from the drop down list.

### Description

Enter the description of the project as it appears on the plan.

### Issued To

Select from the dropdown list the contractor that performed the work.

### Subcontractor

If applicable select from the dropdown list the subcontractor that performed the work.

### Warranty Expiration Date

If this project has a pavement warranty enter the expiration date in this field.

### Active Project

Check this box if you want this project to appear in your “Active Projects” Favorites Quick Filter. See [QuickFilters](#) section on page 68 for further information.

### Favorite

Checking this box will allow you to use Quick Filters to filter to only the Project Numbers you have marked as a “Favorite”. See [QuickFilters](#) section on page 68 for further information.

### Reflectivity Value: Read Only

This field shows the reflectivity reading value the last time this marking was field checked. These values are entered on the [Condition](#) form discussed on page 48 this manual.

Ra - Reflectivity Value:

### Maintaining Authority: Lookup field

Select the field which identifies the jurisdictional authority responsible for maintaining the markings.

Maintaining Authority:

Be sure to choose **Wisconsin DOT** for those roadways / markings that your region maintains or if you are maintaining a segment of roadway outside your normal regional boundaries.

There may also be reason to track / identify markings that are at an intersection that cross a WisDOT roadway but WisDOT does not maintain, i.e. crosswalks. In this instance select the appropriate maintaining authority from the dropdown list.

**Last Time Spotted: Date field - Optional**

This date field is used to identify the date when spotting was last performed on this section of highway.

**Next Spotting: Date field - Optional**

This field can be used to identify when a section of road is scheduled to be spotted. A filter can be created based on the date entered in this field to assist in scheduling future spotting activities.

**Spotted By Who: Lookup field - Optional**

Identifies the entity that physically performed the spotting on this section of roadway.

**Spotting Distance: Lookup field - Optional**

Choose from the list which spotting sight distance is required for this marking record.

**Special No Passing Zone: Check box - Optional**

Check the box if the passing zone does not comply with typical standards. *Why* the zone does not comply with typical standards can be explained in the **Spotting Notes** field.

**Spotting Notes – Optional**

Explain any special spotting needs or zones.

The screenshot shows a form titled "Spotting" with the following fields:
 

- Last Time Spotted: A date selection field with a dropdown arrow.
- Next Spotting: A date selection field with a dropdown arrow.
- Spotted By Who: A text field with a dropdown arrow.
- Spotting Distance: A text field with a dropdown arrow.
- Special No Passing Zone: A checkbox.
- Spotting Notes: A large, empty text area for notes.

[Attachments](#) can be used on this marking record that contain documents explaining the reason for this special no passing zone.

**PhotoLog Update Section**

When new PhotoLog CDs are shot it is possible that the Photolog mile marker number may shift. This section of the form is used to automatically convert the records from the old CD data to the new CD data.

If there was a major realignment of the roadway the records of the realigned section need to be manually updated to their new location.

**PhotoLog CD Year Conversion Process**

**Note:** This process is automated now. The regional coordinators will be sent a copy of the routes that have been updated. The email will contain the mile markers that were not updated because they do not are not within tolerance, they do not have an X or Y, and the record has already been updated.

**Cartegraph batch run results for Marking records prior to 12/16/2010.**

\*\*\*\*Do not Reply\*\*\*\*

CartegraphJavaBatch@dot.wi.gov

Sent: Mon 12/16/2013 11:15 AM

To: Coombes, Anne - DOT; Heidtke, Andrew - DOT

Route	Number of Records	Number of Records SameDate Not Updated	Number of Records Updated	Number of Records Not Updated	Start Marker Number for skipped records	End Marker Number for skipped records
_053S_R1_2010	139	0	139	0		

If the automated email is deleted you will have to filter to find the records that were not updated.

1. Filter to the records you want to update.
  - a. Route and start marker range would be a typical filter to use.
  - b. Route and county is another example of a filter you could use.
  - c. In MARKINGview be sure to include a filter for Longline or Special Markings.
  - d. You must use the correct form for the type of records you are filtered to. If your filter is for Special Markings you MUST use the Special Markings form.
2. A report is available so that you can print the records you plan to update.
  - a. **MARKINGview - PhotoLogMarkerLog** is the report to run. Refer to the [RunningReports](#) section on page 57 of this manual for further discussion on running reports.

**PhotoLogMarkerLog**

Filter ((Route is equal to "\_105W") And (Code\Type of Marking starts with "Longline"))  
 Working Set Filter ((\Retired is null) And (\Delete Flag = No))  
 Sort <Not Applicable>  
 Group By <Not Applicable>

**PhotoLogMarkerLog**

County	Route	Site ID	Start Marker	Start Frame Number	End Marker	End Frame Number	Start X	Start Y	Date of CD	Code	Marking Location
Douglas	_105W		0.21	45.00	0.23	47.00	46.66580	-92.10871	9/13/2007	W-Edgeline-4-Inch	Edgeline Right
Douglas	_105W		0.23	47.00	0.33	57.00	46.66580	-92.10913	9/13/2007	W-Edgeline-4-Inch	Edgeline Right
Douglas	_105W		0.34	58.00	0.57	81.00	46.66581	-92.11144	9/13/2007	W-Edgeline-4-Inch	Edgeline Right
Douglas	_105W		0.58	82.00	1.96	221.00	46.66592	-92.11645	9/13/2007	W-Edgeline-4-Inch	Edgeline Right
Douglas	_105W		1.97	222.00	2.82	308.00	46.66390	-92.14539	9/13/2007	W-Edgeline-4-Inch	Edgeline Right

3. If no records converted it is possible that the new PhotoLog data for this route hasn't been moved to Oracle. Notify the BTO Inventory Management Specialist via email of the route and the CD Year and she will work with the PhotoLog team to get the route loaded into Oracle.
4. Optional - run the same report as in step 2 after the update to identify records where the CD Year did not convert.
5. Records that were not able to be matched to the new CD will need to be updated manually.

**Previous Photolog Information – Read Only**

The data in this area reflects the Photolog positioning of the marking on a previous year CD. It will only have data if the marking was previously updated using the Photolog Update process explained above.

**Previous Photolog Information**

Date of CD\_bak:

Start Marker\_bak:

Start X\_bak:

Start Y\_bak:

Start Frame Number\_bak:

End Marker\_bak:

End X\_bak:

End Y\_bak:

End Frame Number\_bak:

**Historical Data**

The remaining fields are from the Last History Event for this record and are read only. These will update whenever you save a new History Event for this record which is discussed later in this document.

**Historical**

⏏ ⏏ × ⏪ ⏩ ⏪ ⏩

	Activity	When Ended	
▶	Update Curre	03/11/2009	
		08/01/2011	
		08/03/2011	
		08/03/2011	

Record  of 6

## Saving the Record

The record is saved by moving to the previous or next record by use of the arrow keys. Do not use the "Save Icon" since it will save a blank History Event even if the Bypass key is pressed. See **Tip!** Below.



The marking record is now saved and an **Event Entry – Markings** form appears.

An Event Entry is a secondary record from the marking record itself. It is also referred to as a History Event.

**Tip!** Only save the Event Entry when a new marking record is being added or an existing record is being modified to reflect a change in the marking. If a user is only correcting data on an existing record they should press the **Bypass** key to prevent saving another History Event. Changes made to a markings record are still saved even when the **Bypass** button is clicked.

**When Started: Date field - Optional**

Defaults to today. Leave as is or optional to change to the actual date applied.

**When Ended: Date field – Optional**

defaults to today. Leave as is.

**Work Order #: Not Used**

**Activity: Lookup field – Mandatory**

Select an Activity from the list.

**Who: Lookup field – Optional**

Defaults to person logged in. Leave this as is.

**Why: Lookup field – Optional**

Select an appropriate Why from the list.

**Cost: Not used**

**Notes: Text field –Optional**

Enter any notes wanted.

Press the **Save** button once the fields have all been entered or press the **Bypass** button if there is no need to save an Event.

Event Entry - Markings

Enter event information for the 'Markings' record:  
2428793245

Completed:  Reset

When Started: 10/23/2013

When Ended: 10/23/2013

Work Order #:

Activity: Apply - Epoxy

Who: dota2h

Why: Routine Maintenance

Cost:

Notes:

Save Bypass

**Tip!** Detailed History Records are viewed on the History form. See [ViewingHistoryEvents](#) for more information on using this form and the fields that are available on page 42.

## Retire a Marking Record

Use this process when it is determined that a marking record should be retired:

1. Locate the correct record in MarkingView.
2. Press the Save button.



3. Complete the Event Entry form as described above entering “**Retire Record**” for the **Activity** and an appropriate reason in the **Why** field.
4. Press the **Save** button
5. **DO NOT** press **Bypass** or the record will not be marked as retired.

Event Entry - Markings

Enter event information for the 'Markings' record:  
2428793245

Completed:  Reset

When Started: 10/23/2013

When Ended: 10/23/2013

Work Order #:

Activity: Retire Record

Who: dota2h

Why: Improvement Project

Cost:

Notes:

Save Bypass

Multiple records can be retired by using a CarteGraph Tool called “MultiEdit”. Click here [RetireRecords](#) for instructions on how to use the MultiEdit process to retire records. (Page 71)

## Special Marking Form

The Special Markings form is made up of two recordsets – the “Parent” record and the “Child” record. A parent recordset will have child recordsets that groups fields that all relate back to a parent record. Child recordsets have a one-to-many relationship with the parent record. For example, the main Marking record, which is a parent record, can have many child records for each of the specific special marking at this location.

**Parent Record**

**Multiple Child Records**

## Entering a New Special Markings Record

**WisDOT database should only contain markings that are maintained by DOT with the exception of permitted markings that are maintained by other municipalities. Refer to TGM 3-2-18 Crosswalks, TGM 9-3-4 Bicycle Lanes and TGM 9-3-7 Shared Lane Markings for guidance.**

To enter a new record first toggle the fields that you want to carry over to the new record. On the left side of each field that you want to duplicate click the green toggle button.

Press the **New Record Button** on the Tool Bar.



Do not use the **Duplicate Record Button** on the tool bar.

### Region: Lookup field - Mandatory

Select your Region from the drop down list or skip this field if you have it toggled from a previous record.

### County: Lookup field - Mandatory

Select the County where the marking is located or skip this field if you have it toggled from a previous record.

### Route: Lookup field – Mandatory

Select the correct route from the drop down list or skip this field if you have it toggled from a previous record.

### Determining Highway Predominance

Refer to [HighwayPredominance](#) section earlier in this manual for an explanation of determining routes. (Page 13)

**Location**

Region: Northwest - Spooner

County: Douglas

Route: \_002E

### Site ID: Lookup field - Optional

Select an appropriate Site ID from the drop down list or enter a new one. Be sure to check if this Site ID exists before adding a new one. Make sure to use the standard data entry format when entering a new site ID.

Site ID: BELKNAP ST

This field is used to help identify or group together similar records in a similar location. Good example of a Site ID would be a crossroad, signal system, bridge number, ramp description (e.g. King St.)

**Highway Segment: Lookup field – Optional**

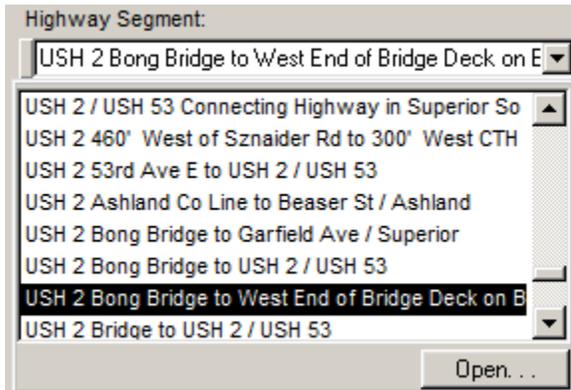
This field serves as a pre-built filter for a segment of road.

When filtering to this field, you would get all the records within this segment both Longline and Special Markings.

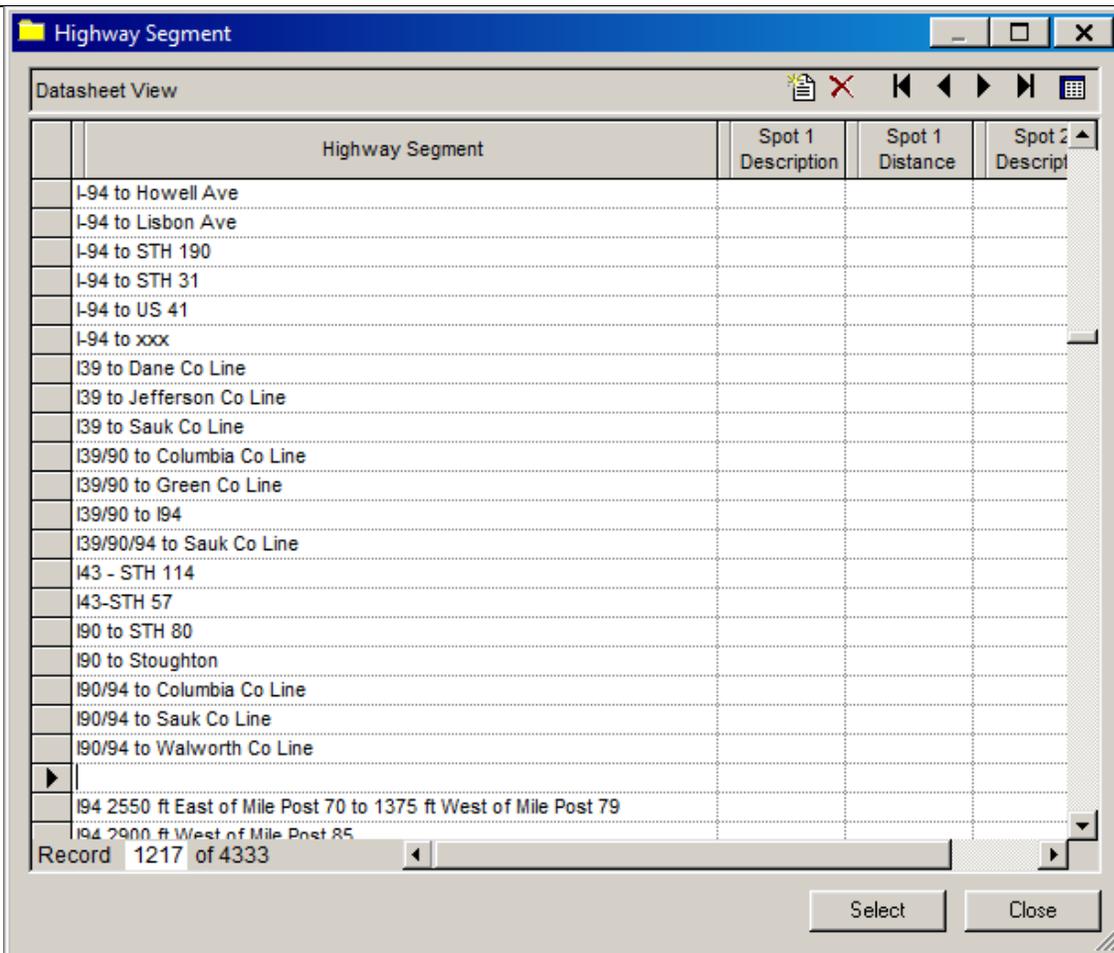


**Entering New Highway Segments**

To enter a new Highway Segment you must first click the **Open** button on the field.



The library will open.



To add a new highway segment you must go to the last line in the window or once the window is opened you can right mouse click on the left margin of the window and select **New Record**.



### Highway Segment field

A Highway Segment would typically be used for project related work and identifies the starting and ending points of a construction project's limits. The Highway Segment entry should start with a route and then the starting and ending points of the segment. You must follow the standard format as discussed in the [StandardsForDataEntry](#) earlier in this manual on page 10.

*Example: USH 12 Freedom St Fall Creek to Plum St Fall Creek*

### Pavement Type: Lookup field – Optional

Select the type of pavement surface the marking is applied to.

Pavement Type:

### Start Marker from PhotoLog

A Special Marking is a point reference rather than a linear marking along a segment of roadway therefore you only need to enter Start Marker information. There is no End Marker information on the Special Marking Form.

Locate the marking in PhotoLog. While the PhotoLog screen is displayed, hold down the Control key and press the "X" key on your keyboard. This procedure will "capture" the information from PhotoLog.

Go back to the MarkingView Form and press the "Import Photolog" button. The Route, Start Marker, Start Frame Number, X, Y and Date of CD will automatically fill in.

**TIP!** When filtering to a special marking within a segment of roadway use the Start Marker twice since there is no End Marker. Example:

	Field	Operation	Value
1	Code/Type of Marking	is equal to	"Special Marking"
2	Start Marker.amount	>=	1
	Start Marker.amount	<=	25
*			

In the case of markings that are located on a non-PhotoLog route, for example a frontage road, the Marker fields must be entered manually. For further instructions click on this link to view the [FrontageRoads](#) section of this manual. (Page 55)

**Map Reference** assignment suggestions. These are based on discussions held at statewide MarkingView user group meetings. The Map Reference is an arbitrary numbering system where points such as intersections would be assigned a random number and would always be the same number. The numbers assigned won't be related to actual distances since measurements would be required between points and there would be no reliable auto-calculating. Using the PhotoLog Marker (plm) for a model is not a good idea since the points can shift from year to year and the reference would no longer be valid once the CD data shifts and each reference would need to be manually updated.

#### Map Reference: User Entry - Optional

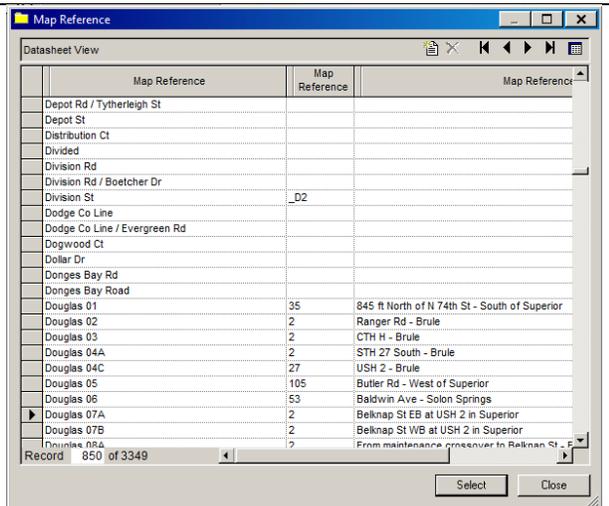
This field can be an alpha or numeric and is used as a reference to markings at a single point. It can be used on maps or in contracts to reference a location where there may be multiple special markings. An example is at an intersection. It is like a quick filter to multiple markings at a point location

When you click on the down arrow next to the Map Reference field and click on "Open" a secondary screen will allow you to enter specific information about this Map Reference ID.

**Map Reference** - Enter the alpha / numeric identification that you decide to use.

**Map Reference Hwy** - Enter the highway number that the markings are applied on.

**Map Reference Site ID** – Enter the closest intersecting side street name and town.



By filtering to Map Reference Pepin 03 and Pepin 04 you can create this report and it can be exported to Excel for inclusion in a contract.

County		Pepin							
Map Reference		Pepin 03							
Map Reference Hwy		10							
Map Reference Site ID		Main Street - Durand							
Bid Item #	Description	SMCode	Marking Location	Unit	Main St NB	Main St SB	USH 10 EB	USH 10 VB	Total Quantity
647.0166	Pavement Marking, Arrows, Epoxy, Type 2	SM-Arrow-2-L	Left Turn Lane	EACH			2	2	4
647.0856	Pavement Marking, Concrete Corrugated Median, Epoxy	SM-Corrugated Median	Median Island	S.F.			52		52
647.0726	Pavement Marking, Diagonal, Epoxy, 12-Inch	SM-Diagonal-Yellow	Median Island	L.F.			91		91
647.0606	Pavement Marking, Island Nose, Epoxy	SM-Island Nose-Yellow	Median Island	EACH			2	2	4
647.0356	Pavement Marking, Words, Epoxy	SM-Only	Left Turn Lane	EACH			1	2	3
647.0566	Pavement Marking, Stop Line, Epoxy, 18-Inch	SM-StopBar-18-Inch	Mainline	L.F.			24	30	54

County		Pepin 04							
Map Reference		Pepin 04							
Map Reference Hwy		10							
Map Reference Site ID		Wayside - E of Durand							
Bid Item #	Description	SMCode	Marking Location	Unit	Wayside NB	Wayside SB	USH 10 EB	USH 10 VB	Total Quantity
647.0656	Pavement Marking, Parking Stall, Epoxy	SM-Parking Stall		L.F.				748	748

**DOT Reference: User Entry - Optional**  
Used by regional preference.

DOT Reference:

**Comments: User Entry - Optional Text**  
You may use this field to make any notes about the markings identified on this record.  
  
Use consistent verbiage in the Comments field if you wish to later filter on this verbiage. See discussion on [filtering](#) later in this manual on page 65.

Comments

ATTACHMENTS - Photolog does not cover this area - Yellow Curb at USH 2 EB

**Description Data**  
**Code: Lookup field – Mandatory**  
Select a code that identifies the marking being recorded. The **Color** and **Type** will fill in automatically once the Code is selected. These are locked and cannot be modified except by an

Description

Code:

Color:

Type:

administrator of the program.

Code	Description	Attachment	Classification	Color	Favorite	Favorite CO	Favorite EAU	Favorite GRE	Favorite LAX	Favorite MAD
SM-Bike Shar	Bicyclist with	<Project Hom	Guide	White	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SM-Chevron-	White Chevro	<Project Hom	Guide	White	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Corrugate	Corrugated M	<sym>\SM-Co	Guide	Yellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Crosswal	Crosswalk -	<sym>\SM-Cr	Guide	White	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Crosswal	Crosswalk -	<sym>\SM-Cr	Guide	White	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Crosswal	Crosswalk -	<sym>\SM-Cr	Guide	White	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Curb-Blue	Curb Marking		Guide	Blue	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Curb-Whit	Curb Marking		Guide	White	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
SM-Curb-Yell	Curb Marking	<sym>\SM-Cu	Guide	Yellow	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

**Code:** Marking code that is assigned by the Statewide Markings Engineer. It is a unique identified for various types of markings applied.

**Color:** Color of the marking – white or yellow.

**Description:** Description of the code.

**Painted Area:** Used for calculating actual painted footages for codes measured by linear feet. The Painted Area is multiplied by the Segment Length to obtain the actual painted footage for the marking. Special markings are not linear thus the painted area is equal to 1.

**Type:** Identifies if the marking is a point or a linear measurement.

**Type of Marking:** Identifies the group which a code is assigned to, either longline white, longline yellow or special marking.

**Marking Location: Lookup field – Mandatory**  
Select the locations where the marking has been applied on the road.

Marking Location:

**Applied Date: Date field - Mandatory**  
Enter the approximate date or the end of the month the marking was applied.

Applied Date:

**Next Activity Date & Next Activity Type: Date field and Lookup field - Optional**  
In these fields identify the approximate date when you would schedule work on this section of markings. This field and the Next Activity Type field will provide you the flexibility of forecasting when markings are due for some type of activity.

**Next Scheduled Activities**

Next Activity Date:

Next Activity Type:

## Contract Related Data

### Bit Item Number: Lookup field- Mandatory

The **Bit Item Number** column lists and identifies the formal numbers that are used for bidding purposes on contracts. Select the number for the special marking used at this location.

### Units and Description: Read Only

These fields are automatically filled in from the Bid Item library.

**Contract-Related**

**Bit Item Number:** 647.0453

**Units and Description:** L.F.  
Pavement Marking, Curb, Paint

Bid Item Number [Read Only]

Datasheet View

	Bid Item Number	Description	Average Statewide	Favorite	Favorite CO	Favorite EAU	Favorite GRE	Favor LA
	647.0253	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0256	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0258	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0259	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0303	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0306	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0308	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0309	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0313	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0316	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0318	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0319	Pavement Marking, Symbols		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0353	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0356	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0358	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0359	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0403	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0406	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0408	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0409	Pavement Marking, Words,		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▶	647.0453	Pavement Marking, Curb, Pa		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0456	Pavement Marking, Curb, Ep		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	647.0503	Pavement Marking, Curb, Pa		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Record 138 of 308

Select Close

**Bid Item Number and Description:** The formal number and description that is used for bidding purposes on contracts.

**Unit:** Unit of measurement that is used for bidding and payment.

**Favorites:** Checking on of these boxes will allow you to use Quick Filters to filter to only the Bid Item numbers that have marked as a "Favorite". See [Quick Filters](#) section for further information on page 68.

**Application Method: Lookup field – Optional**

Select from an appropriate application method.

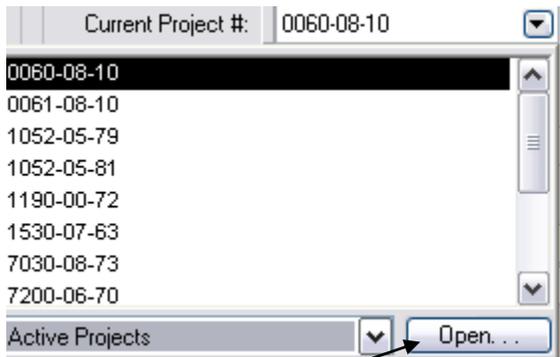
**Current Project #: Lookup field – Mandatory**

Select a project number. You may need to add a new one if the one you need does not exist. See below for process to enter a new project number.

Application Method:	Surface
Current Project #:	4760-28-10
Contract Type:	TMA (Maintenance Agreeme
Issued To:	County - Taylor
Description:	Paint - TMA 2012

### Adding a new project number

To open the Project Number library click the drop down arrow in the Current Project # field.

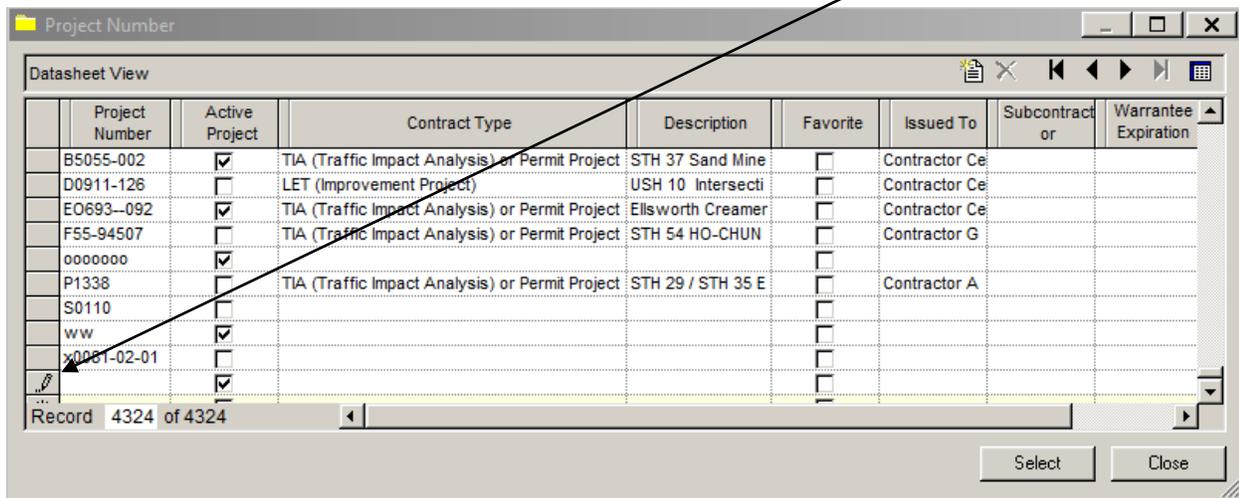


Then click **Open**.

Right click on the left margin of the library form and select **New Record**.



This will position your cursor at the end of the library on a blank row. Note the pencil in the left margin – this is an indicator that the form is waiting for data entry.



### Project number

Enter the new Project Number and be sure to use only the valid format of #####-##-##.

### Contract Type

Select the appropriate Contract Type from the drop down list.

**Description**

Enter the description of the project as it appears on the plan.

**Issued To**

Select the contractor that performed the work.

**Subcontractor:**

Select subcontractor if needed from the dropdown list.

**Warranty Expiration Date**

If this project has a pavement warranty enter the expiration date in this field.

**Active Project**

Check this box if you want this project to appear in your "Active Projects" Favorites Quick Filter. See [QuickFilters](#) section for further information on page 68.

**Favorite**

Checking this box will allow you to use Quick Filters to filter to only the Project Numbers you have marked as a "Favorite". See [QuickFilters](#) section for further information on page 68.

**Reflectivity Value: Read Only field**

This field shows the reflectivity reading value the last time this marking was field checked. These values are entered on the [Condition](#) form discussed later in this manual on page 48.



**Maintaining Authority: Lookup field**

This field is used to identify which jurisdictional authority is responsible for maintaining the markings.

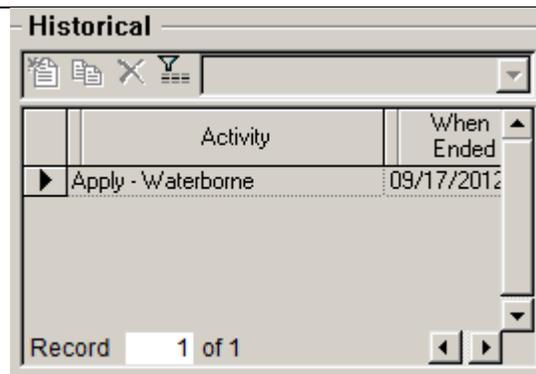


Be sure to choose Wisconsin DOT for those roadways / markings that your region maintains or if you are maintaining a segment of roadway outside your normal regional boundaries.

There may also be reason to track / identify markings that are at an intersection that cross a WisDOT roadway but WisDOT does not maintain, i.e. crosswalks. In this instance select the appropriate maintaining authority from the dropdown list.

**Historical Data**

These fields are brought in from the History Event for this record and are read only. These will update whenever you save a new History Event for this record.



**PhotoLog Update Section**

When new PhotoLog CDs are shot it is possible that the Photolog mile marker may shift.

If there was a major realignment of the roadway the records of the realigned section need to be manually updated to their new location.

**Previous Photolog Information – Read Only**

The data in this area reflects the Photolog positioning of the marking on a previous year CD. It will only have data if the marking was previously updated using the Photolog Update process explained above.

**Previous Photolog Information**

Date of CD\_bak:

Start Marker\_bak:

Start Frame Number\_bak:

Start X\_bak:

Start Y\_bak:

**Delete Flag: Checkbox – Optional**

Check this flag if the marking was entered erroneously. When the box is checked the record will no longer appear in your data. These are deleted on an annual basis by BTO Inventory Management Specialist.

Delete Flag:

NB Road:  SB Road:  EB Road:  WB Road:

**NB Road – TEXT - USER ENTRY - Required if applicable**

Enter in this field the name of the road on the northbound approach.

**SB Road – TEXT - USER ENTRY - Required if applicable**

Enter in this field the name of the road on the southbound approach.

**EB Road – TEXT - USER ENTRY - Required if applicable**

Enter in this field the name of the road on the eastbound approach.

**WB Road – TEXT - USER ENTRY - Required if applicable**

Enter in this field the name of the road on the westbound approach.

If both roads are north and south bound roads the predominant highway would be entered in the NB Road and SB Road fields. The other highway would be entered into the EB Road and WB Road fields with the highway direction specified, e.g. USH 12 South or USH 12 North.

NB Road:  SB Road:  EB Road:  WB Road:

## Saving the Record

The record is saved by moving to the previous or next record by use of the arrow keys.

Do not use the "Save Icon" since it will save a blank History Event even if the Bypass key is pressed. See **Tip!** Below.



The marking record is now saved and an **Event Entry – Markings** form appears.

An Event Entry is a secondary record from the marking record itself. It is also referred to as a History Event.

**Tip!** Only save the Event Entry when a new marking record is being added or an existing record is being modified to reflect a change in the marking. If you are correcting data on an existing record you should press the **Bypass** key to prevent saving another History Event.

*Changes made to a markings record are still saved even when the **Bypass** button is clicked.*

### **When Started: Date field - Optional**

Defaults to today or if the value was changed on a previous record it will retain that value. Leave as is or change to actual date the marking was applied.

### **When Ended: Date field – Optional**

defaults to today or if the value was changed on a previous record it will retain that value. Leave as is.

### **Work Order #: Not Used**

### **Activity: Lookup field – Optional**

Select an appropriate Activity from the list.

### **Who: Lookup field – Optional**

Defaults to person logged in. Leave this as is.

### **Why: Lookup field – optional**

Select an appropriate Why from the list.

### **Cost: Not used**

### **Notes: Text field –Optional**

Enter any notes desired.

Press the **Save** button once the fields have all been entered or press the **Bypass** button if there is no need to save an Event.

## Entering Special Markings Child Records

After you enter the top portion of this form, the “Parent Record”, you must SAVE that information before you can enter information in the lower section of the form, the “Child Record”. This portion of the form is also referred to as the Special Markings ‘grid’.

	NB	SB	EB	WB	Total Quantity	Required	Notes
			24	26	50	<input type="checkbox"/>	
*						<input type="checkbox"/>	

Record 1 of 1

**TIP!** The fields displayed in the child record ‘grid’ can be modified and moved.

	NB	SB	EB	WB	Total Quantity	Required	Notes
	36				36	<input type="checkbox"/>	By WB29 On Ramp for Business 29 traffic
	47				47	<input type="checkbox"/>	By 29EB Off ramp

### NB – Number – User Entry – Required if applicable

Enter the quantity using the unit of measure of the Bid Item that is on the northbound approach of this location. Unit of measure is LF (linear feet), SF (square feet) or EA (each) and is reflected on the parent record section of the form.

### SB - Number – User Entry – Required if applicable

Enter the quantity using the unit of measure of the Bid Item that is on the southbound approach of this location. Unit of measure is LF (linear feet), SF (square feet) or EA (each) and is reflected on the parent record section of the form.

### EB - Number – User Entry – Required if applicable

Enter the quantity using the unit of measure of the Bid Item that is on the eastbound approach of this location. Unit of measure is LF (linear feet), SF (square feet) or EA (each) and is reflected on the parent record section of the form.

### WB - Number – User Entry – Required if applicable

Enter the quantity using the unit of measure of the Bid Item that is on the westbound approach of this location. Unit of measure is LF (linear feet), SF (square feet) or EA (each) and is reflected on the parent record section of the form.

### Total Quantity – Calculated field

This field will automatically total the quantities of markings that you have identified in the NB, SB, EB and WB columns in that row.

### Required – Check Box – Mandatory when applicable

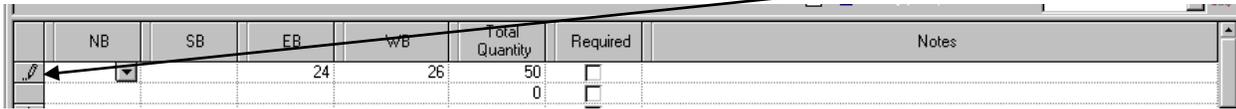
Per the MUTCD some Arrows and Onlys are consider supplemental and others are mandatory for example in the case of a lane drop. Mandatory markings must be identified by checking this field.

### Notes – User Entry – Optional

Enter any Notes applicable to this special marking.

## Saving a Child Record

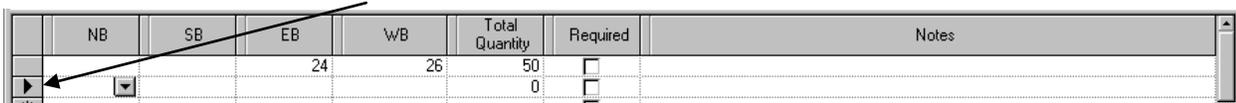
A child record is automatically saved when the cursor is moved to the next available line. A **pencil** is displayed while the data is being entered.



A screenshot of a data entry table. The table has columns for NB, SB, EB, WB, Total Quantity, Required, and Notes. The EB column contains the value 24, WB contains 26, and Total Quantity contains 50. The Required column has a checkbox that is currently unchecked. A pencil icon is visible in the first cell of the first row, indicating that the record is being edited.

	NB	SB	EB	WB	Total Quantity	Required	Notes
			24	26	50	<input type="checkbox"/>	
					0	<input type="checkbox"/>	

Once the entries are completed click on the next blank line so that the pencil disappears and the record will then be saved. Note: **NO PENCIL**



A screenshot of the same data entry table as above. The pencil icon has been removed from the first cell, indicating that the record has been saved. The data in the table remains the same.

	NB	SB	EB	WB	Total Quantity	Required	Notes
			24	26	50	<input type="checkbox"/>	
					0	<input type="checkbox"/>	

## Viewing History Events for a Marking

All of the Events that have been saved for a Marking Record are found on a History Form. The form is accessed by clicking on the History Form Tab at the bottom of the screen.



Note: Only the last 5 History Events are shown in a local Access database copy. It is possible there are more records in the Oracle database. History records are retained for 7 years per the WisDOT electronic records retention schedule.

### MarkingView History Form

**TIP!** The fields displayed in Events 'grid' can be modified and moved.

When Started	When Ended	Activity	Why	Applied Date	Project Number	Performed By	Who	Notes	Completed	Entry Date
08/12/2005	08/12/2005	Apply - Epoxy	Improvement Project	08/12/2005 12:10	1050-07-71		dotcja	Brickline	<input checked="" type="checkbox"/>	01/04/2011 10:01:48

**When Started – Automatic - From History Event Record** – This field can be modified on this form to reflect the actual applied date if desired. This would keep history events in the order they occurred.

**When Ended – Automatic - From History Event Record** – This field can be modified on this form if needed.

**Activity – Automatic - From History Event Record** – This field can be modified on this form if needed.

**Why – Automatic - From History Event Record** – This field can be modified on this form if needed.

**Applied Date – Automatic - From the Parent Marking Record** – The Applied date is copied from the Parent Marking record at the time the record is initially saved. When the Applied Date is modified because of a new project the History Event record should be saved to capture the new data. This field can be modified on this form if needed.

**Project Number – Automatic - From the Parent Marking Record** – The Project Number is copied from the Parent Marking record at the time the record is initially saved. When the Project Number is modified because of a new project the History Event record should be saved to capture the new data. This field can be modified on this form if needed.

**Performed By – Automatic - From the Parent Marking Record** – The Performed By field is copied from the Parent Marking record at the time the record is initially saved. When Performed By is modified

because of a new project the History Event record should be saved to capture the new data. This field can be modified on this form if needed.

**Who – Automatic - From History Event Record** – This field can be modified on this form if needed.

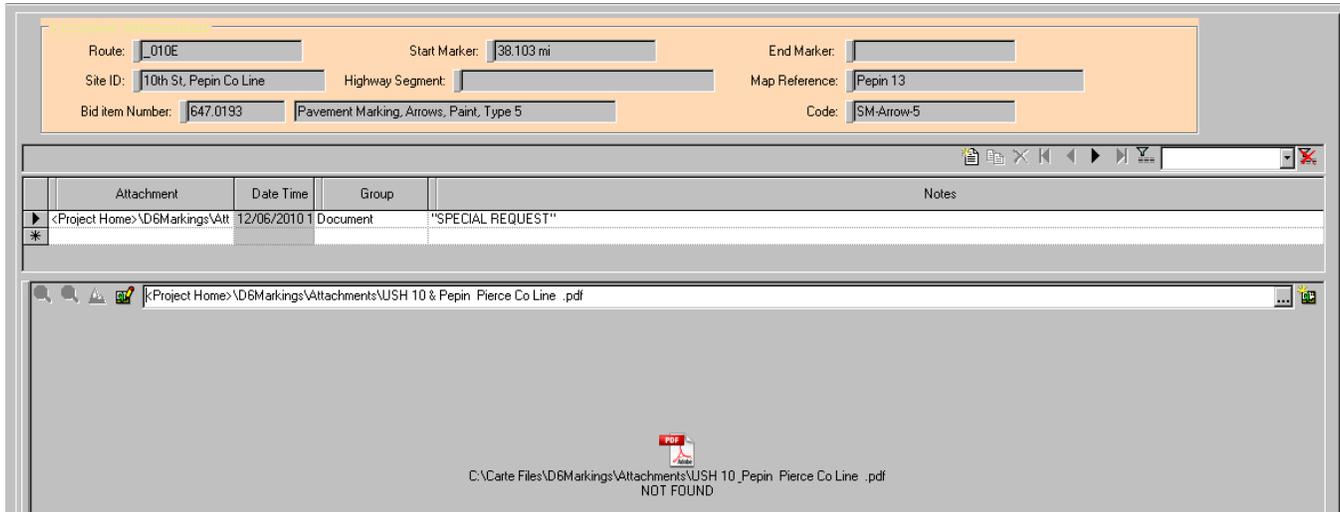
**Notes – Automatic - From History Event Record** – This field can be modified on this form if needed.

**Completed – Automatic - From History Event Record** – This field can be modified on this form if needed.

**Entry – Automatic - From History Event Record – Read Only** – Cannot be modified.

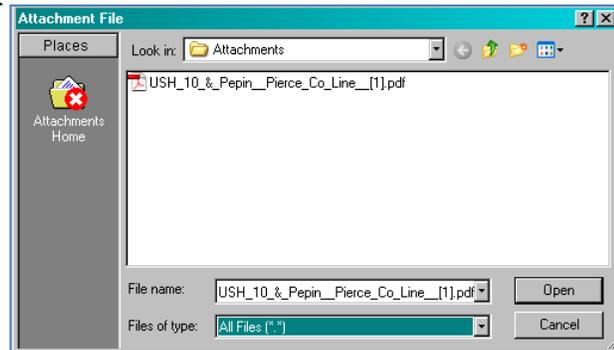
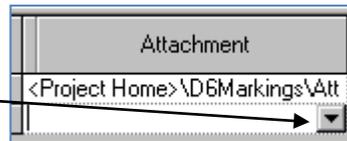
## Including Attachments With a Markings Record

You can attach pictures or documents relative to the record using the Attachments form. A good use of an attachment would be to attach a document that explains the reason for a special marking or special no passing zone.



### Attachment : User Entry – Required if applicable

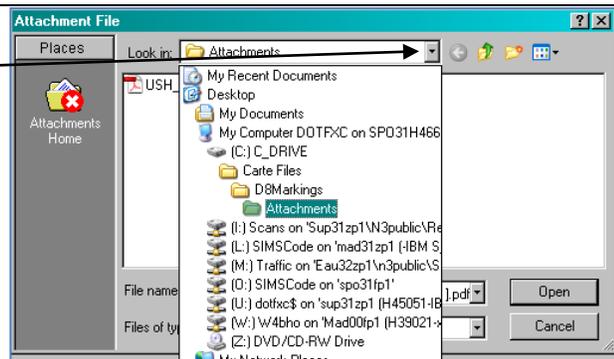
Enter the location of the file you want to attach to this record. Clicking the **down arrow** will bring up the **Attachment File window** that allows you to search network locations for the file.



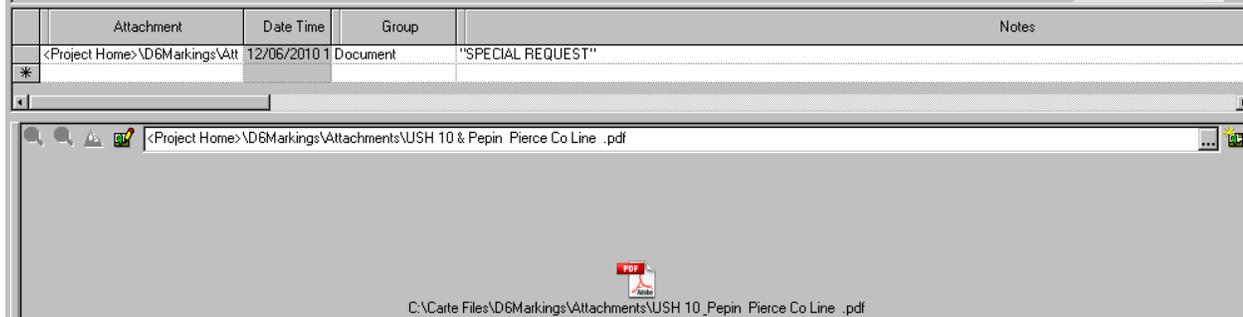
Click on the down arrow in the **Look in** field to view your network locations.

Navigate to the directory where the attachment file is stored, select the file and click **Open**.

Attachments are quite often scanned documents that you have saved to your C:\Carte Files\D#Markings\Attachments folder.



**TIP!** It is a good idea to also store a copy of attachment files on the network as a backup copy. A suggested location is: <\\yourserver\sims\D#CarteFiles\D#Markings\Attachments>.



Clicking on the attachment icon will display the document:

Date: 8/5/10

To: Traffic File 0609-00-16

From: Rick Tumaniec  
Traffic Engineer  
NW Region, Eau Claire Office

Subject: Pepin Co. Traffic Safety Commission meeting, 7/28/10

WisDOT issues discussed:

1. STH 85 / East County Line Road Intersection. Kim Seipel from the Pepin Co. Sheriff's Department brought up a concern with this intersection. The intersection is located just east of the Dunn/Pepin County line in Dunn County. There are sight distance issues at this intersection location. Traffic looking to the north on East Co. line Road and for traffic on 85 headed southbound has a difficult time seeing traffic due to the intersection configuration and grade difference. Kim is asking for the department to look at possible realignment of the intersection with a future improvement project.

Follow-up: I will forward this to Ross Johnson to see if this has been an issue in the Dunn Co. meetings and get back to the committee.

2. 10th/st Pepin/Pierce Co Line  
~~USH 10 and Big Coulee Road~~ intersection, John Andrews, the Pepin Co. Sheriff, lives in the vicinity of this intersection and he had noted a couple of crashes recently where vehicles travelling EB in the outside climbing lane are running off the road at the point where the lane drops.

Follow-up: I will follow up with Chloe Anderson on the marking for the lane drop.

3. 2010 Statewide TIM Conference. I informed the committee about the upcoming TIM Conference this fall in Wisconsin Dells. The conference will take place at the Kalahari Resort on September 21-22<sup>nd</sup> with pre conference training sessions on the 20<sup>th</sup>.

Follow-up: None

Next Meeting: October 27<sup>th</sup>, 2010 1:30 PM

*Installed 2-Type 5 Lane Drop Arrows on August 18, 2010 per the request of Rick Tumaniec*

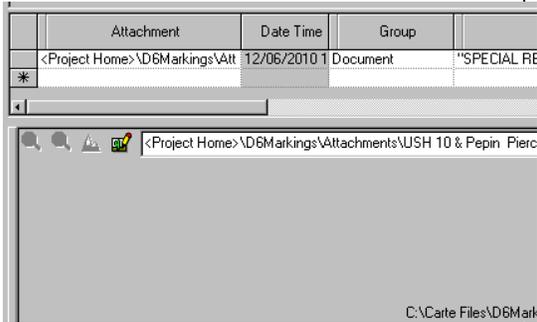
Pepin.tsc.7.28.10

*Chloe Anderson  
Marking Coordinator  
August, 2010*

**Group: Lookup Field – Mandatory if applicable**

The “Group” field can be used to categorize attachments. Choices available in this field are:

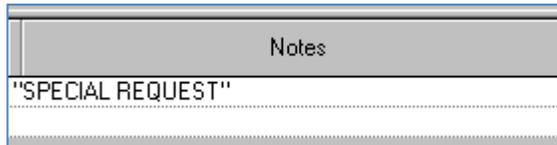
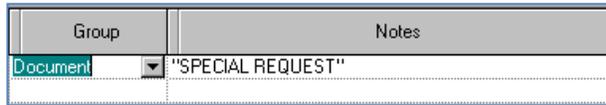
- Document
- General



- Inspection
- Map
- Pictures
- Plans
- Spotting Record

**Notes: User Entry – Text - Optional**

Enter any notes that pertain to this attachment/markings record.



## Entering Field Inspections Using the Condition Form

The Condition form is used to enter reflectivity values taken in the field. The upper portion of the form reflects the marking you have chosen to take the reading on. Readings are entered on the Inspections grid.

**Note: All reflectivity values are entered on the yellow records.**

The screenshot shows a software interface for entering field inspections. At the top, there is a 'Location Information' section with fields for Route, Start Marker, End Marker, Site ID, Highway Segment, Map Reference, Bid Item Number, Pavement Marking, and Code. Below this are 'Prediction Group' and 'Condition Group' fields. A 'Condition Estimates' section includes 'Today's Ra', 'Today's Color', 'Replace Before', and 'Remaining Life' fields. The main part of the interface is an 'Inspections' table with columns for Inspection Date, Code, Ra, Rating, and Notes. The table contains several rows of data, with yellow highlights on the rows where Ra values are present.

Inspection Date	Code	Ra	Rating	Notes
08/24/2010 11:00:57 AM	Y-Solid-Solid	272	Pass	Centerline
08/24/2010 11:00:53 AM	Y-Solid-Solid	224	Pass	Centerline
08/24/2010 11:00:45 AM	W-Edgeline-4-Inch	332	Pass	Rt Edge
08/18/2009 2:43:37 PM	W-Edgeline-4-Inch	289	Pass	Lt Edge
08/18/2009 2:43:12 PM	Y-Solid-Solid	263	Pass	Centerline
08/18/2009 2:43:06 PM	Y-Solid-Solid	246	Pass	Centerline
08/18/2009 2:43:02 PM	W-Edgeline-4-Inch	370	Pass	Rt Edge

### Inspection Date – Date Field – Required if applicable

Auto populates when clicking in the line.

### Code – Lookup Field – Required if applicable

Code reflects the marking on which the reading was taken.

### Ra – Numeric Field – Required if applicable

Enter the reflectivity value of the test just completed.

### Rating – Lookup Field – Required if applicable

Enter Pass or Fail depending on the value of the reflectivity reading

### Notes – Text field – Optional

Add comments to identify and track specific locations of the Reflectivity Values.

When a reading is taken, “**Inspect - Review Condition**” should be chosen for the ‘Activity’ field and “**Inspection – Reflectivity Reading Taken**” should be chosen for the ‘Why’ field when saving the record.

# MarkingView Standards for Records

## Center Line:

For a typical two lane highway (one lane per direction), ALL center Line records shall be entered in the primary direction of the roadway. As an example, the USH 10 center Line would be entered under \_010E. For STH 73, the center line would be entered for \_073N.

## Edge Line:

Edge line shall be entered per direction of travel. For consistency, the Site ID field for an edge line record would be associated with the crossroad nearest the start of the edge line record.

## Bypass or Hill Climbing Lanes:

Lane lines shall be entered per direction of travel.

## 8" Turn Lanes

Turn lanes shall be entered per direction of travel.

## Center Turn Lanes:

The yellow Center Turn Lane markings shall be entered in the primary direction of the roadway using a marking code of Y-Center Turnlane on the Longline Marking form. The Type 2-L Arrows shall be recorded separately at their locations as needed on the Special Marking form.

## Lane Lines:

Lane lines in multiple lane highways shall be entered per direction of travel. *It is not required to record each lane separately.*

## Aerial Enforcement Bars

Enter one SET of Aerial Bars per direction of travel. The total linear footage would be identified on this Special Marking Record.

## ***Breaking Edge Line Records***

- Break for each County Line
- End records at connecting highway limits or at the end of the state's maintaining authority.
- End records where a highway changes from a conventional highway to a divided highway or where it changes from a divided highway to a conventional highway. This does not mean that records must be broken at the beginning or end of a rural bypass lane.

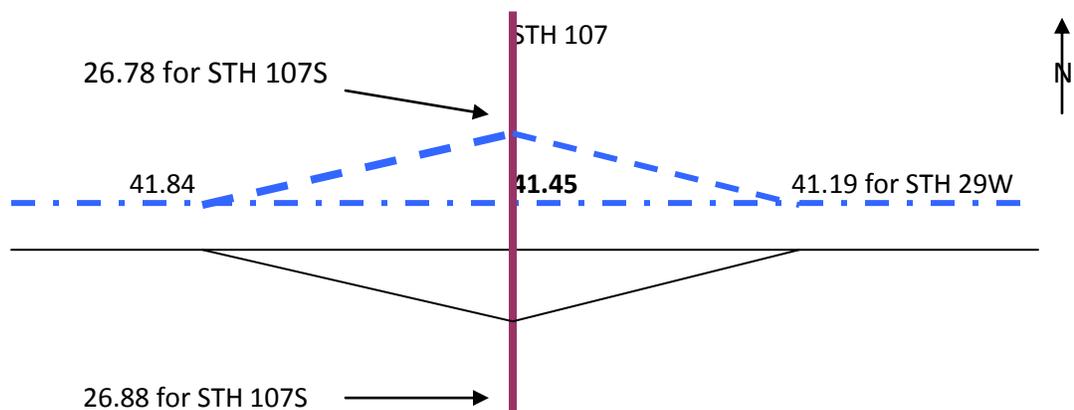
**Breaking Center Line Records:**

- Break for each County Line
- Break whenever the zone changes in either direction.
- End records at connecting highway limits or at the end of the state's maintaining authority.
- End records where a highway changes from a conventional highway to a divided highway or where it changes from a divided highway to a conventional highway. This does not mean that records must be broken at the beginning or end of a rural bypass lane.

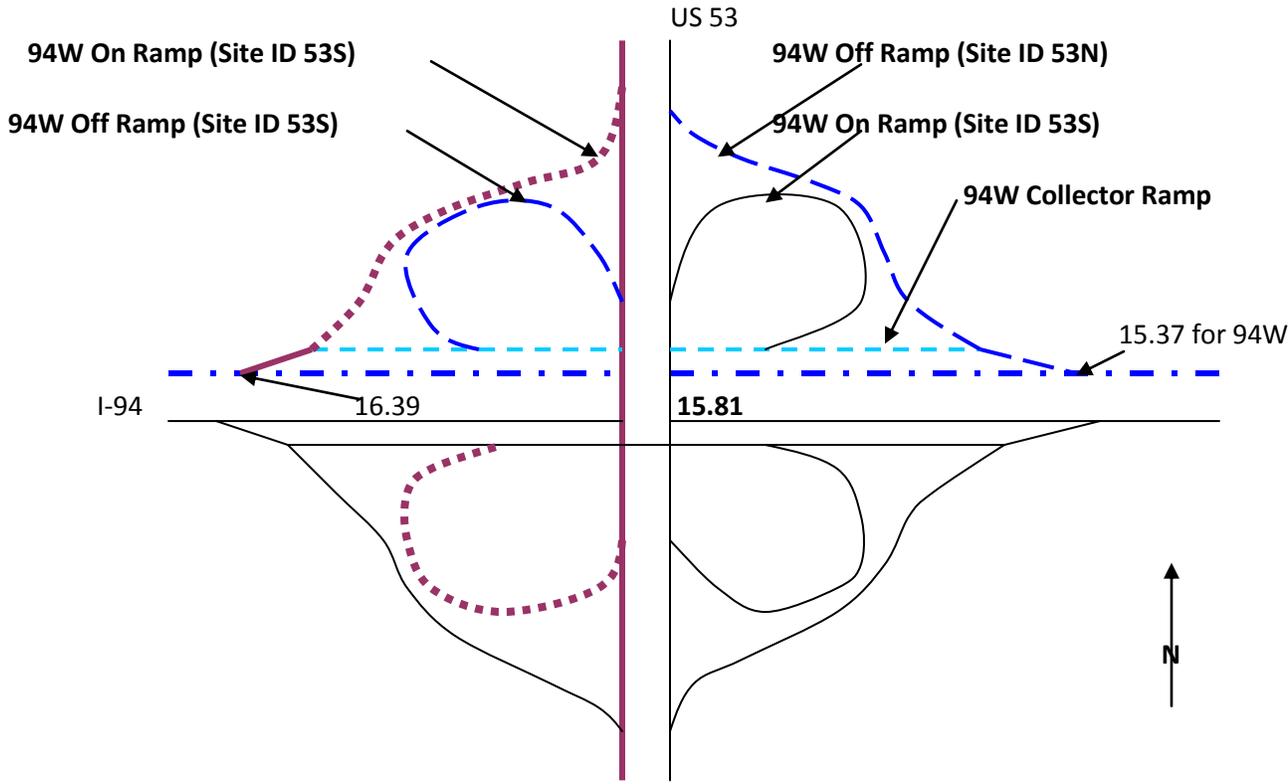
## MarkingView Standards for Data Collection Procedures

- The PhotoLog van does not travel up or down all ramps. When recording markings on ramps, you should identify the closest PhotoLog mile to the center of the crossroad or structure. You would then use that marker for both the Start and End Marker. You would physically measure the appropriate edge line on the ramps and note them on each record for the interchange. (One record for the left edge line, one for the right edge line for a typical off-ramp for example.) The Marking Location field should identify that you are locating the ON Ramp or OFF Ramp.
- For diamond interchanges, the ramps will be identified with the mainline roadway that you are entering or leaving. In this example, the on and off ramp records for 29 West would be associated with STH 29W at the center of the structure, marker **41.45**

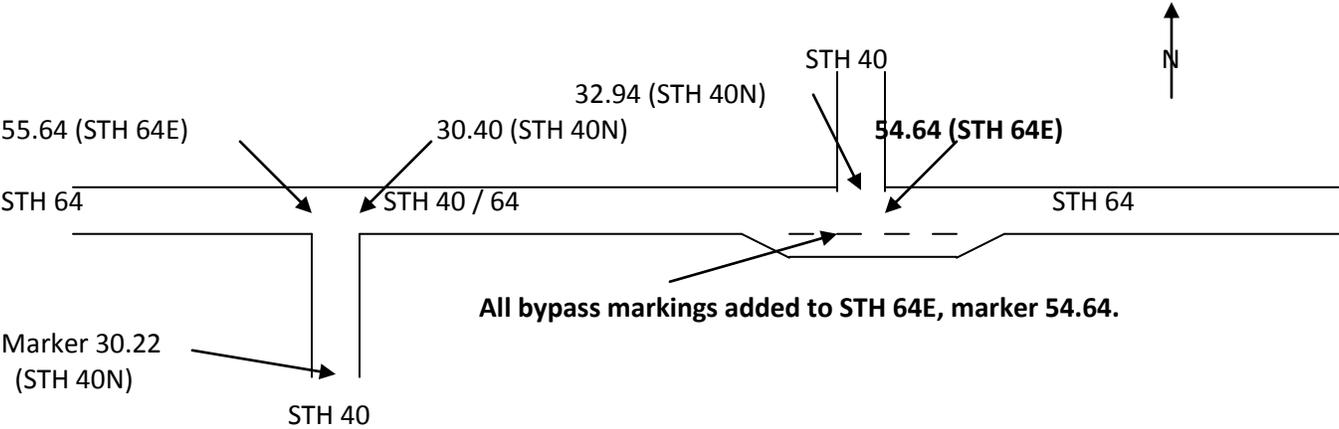
(The EB on and off-ramps would be associated with the STH 29 East photolog marker at the center of the structure.)



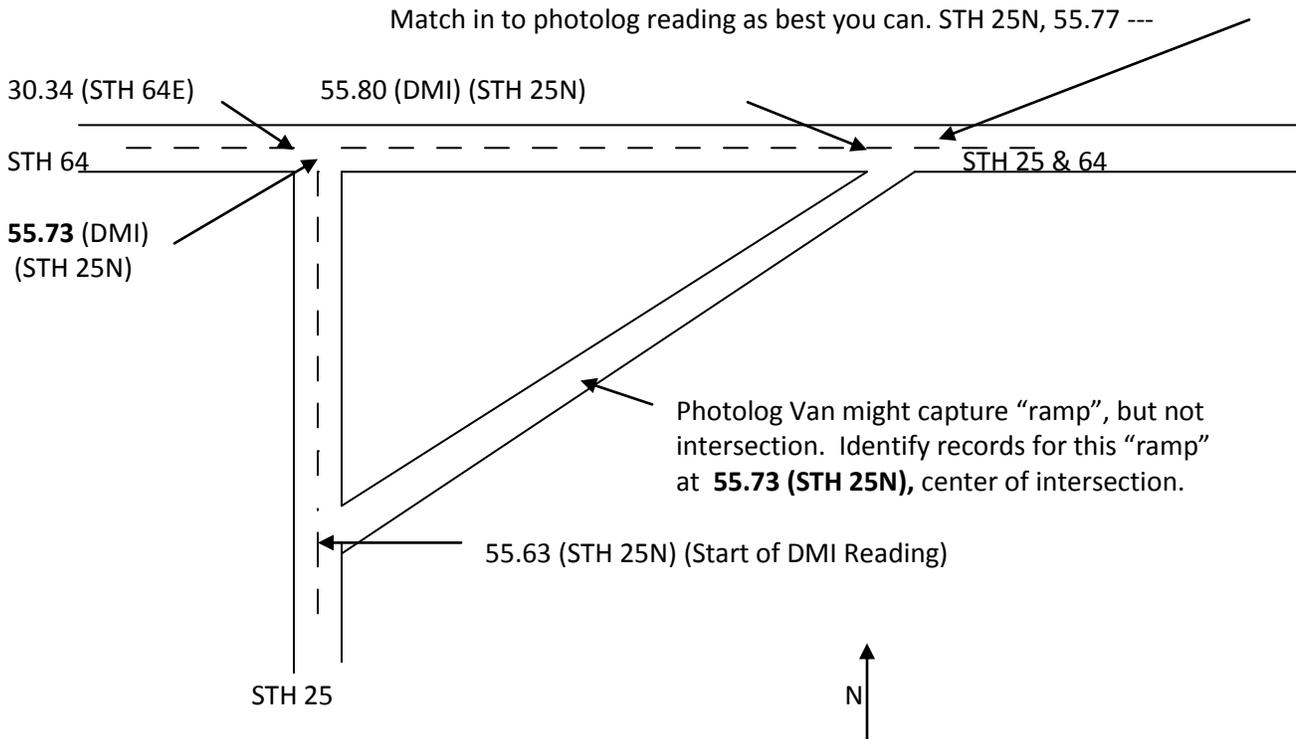
- In some situations you may have circular ramps. In all cases, the priority highway would be listed for the record. In the example below, all ramps would be listed under I-94 since an Interstate takes priority over a US Highway. All ramps would be listed at the center of the structure, **15.81** for the I-94 West roadway. Through the use of appropriate Site ID's and marking locations, the record should identify where the markings lie.



- STH Concurrencies. In some instances, you may find that records will overlap from STH to STH. The example below notes that in the instance of a bypass lane, the records associated with the bypass lane would be associated with the roadway running straight through and not turning. This is the agreed upon standard.

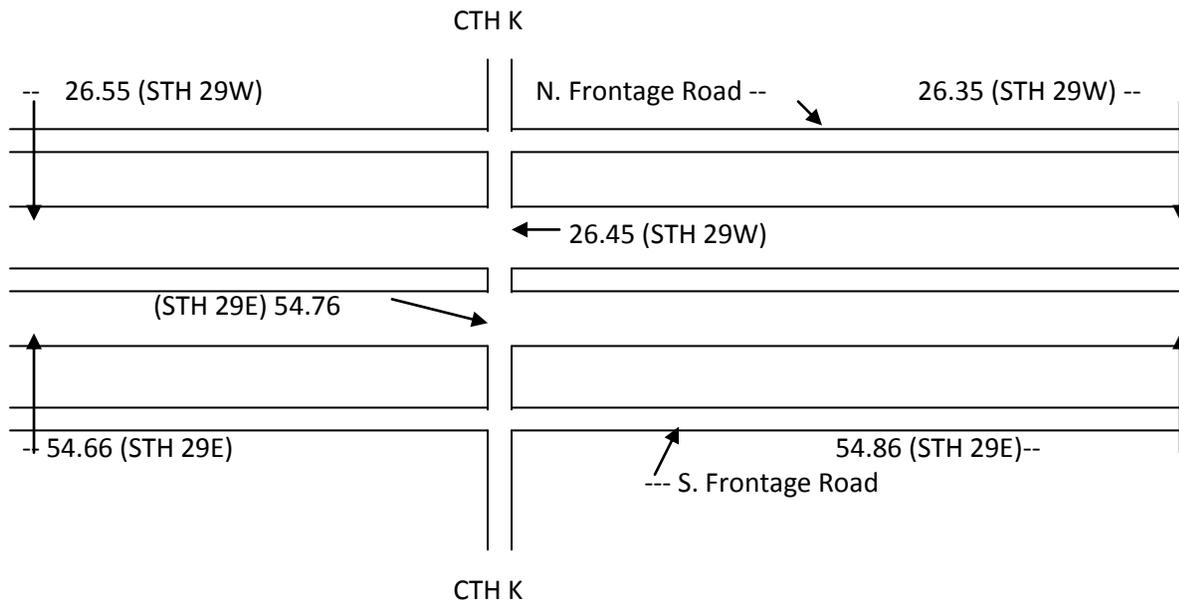


- Large islands and other unique situations may present themselves based on the photolog van not being able to capture all of our marking locations. The example below presents an agreed upon method of entry. Some judgment and adjustments may be necessary.



- Frontage Roads should be associated with the Route they parallel. In the example below, the Route for the North Frontage Rd would be \_029W. Concurrent Highway would be listed as the N. Frontage Rd. The Site ID would be CTH K. The Marking Location would be "Frontage Road". The Start Marker for all North Frontage Road records would be 26.35 with an End Marker of 26.55 as an example.

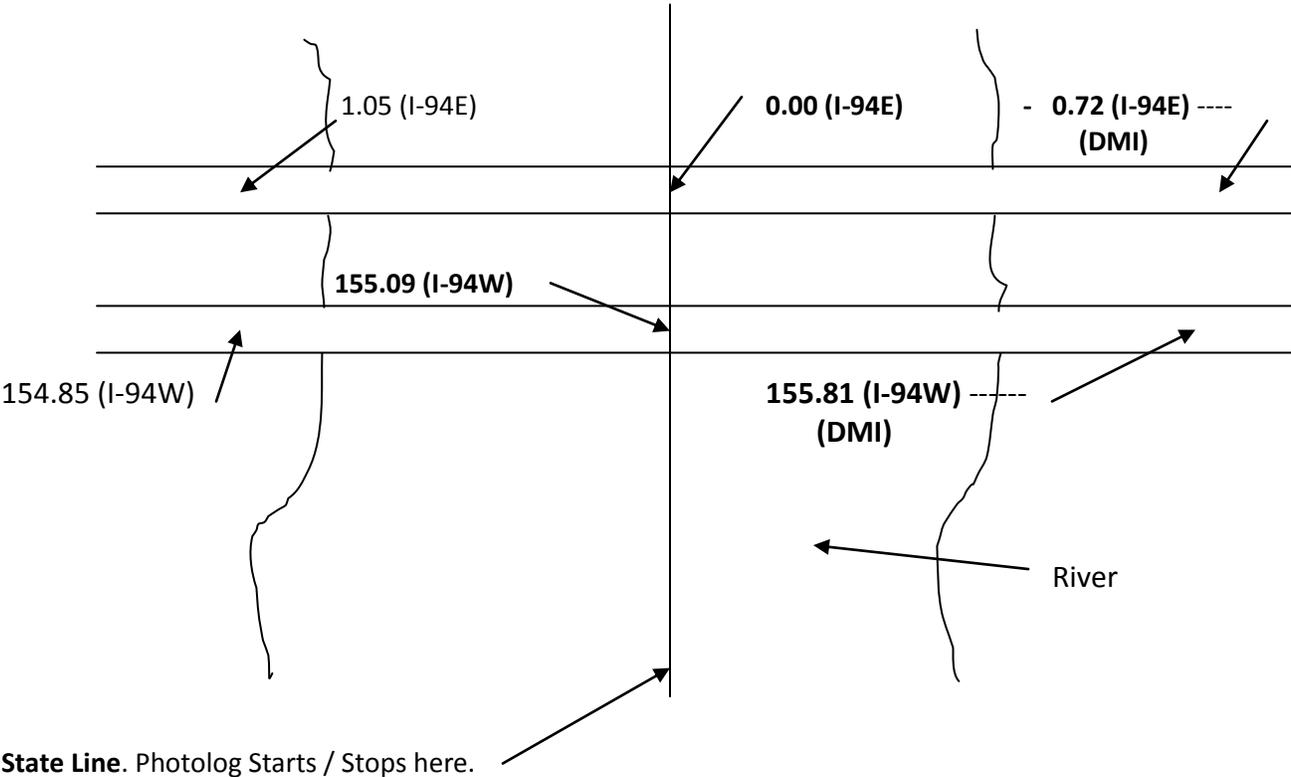
For the South Frontage, the Route would be STH 29E. Concurrent Highway would be S. Frontage Rd. The Site ID would still be CTH K. The Marking Location would remain "Frontage Road". The Start Marker would be 54.66 and the End Marker would be 54.86.



- Bridges at our state border are sometimes our maintenance responsibility and sometimes the other state is the maintaining authority. The photolog however does not always capture the needed roadway where our markings are. Oftentimes, the photolog van will start the photolog at the center of the bridge.

For the inbound direction, you may need to DMI (Distance Measuring Instrument) the distance from the start of the markings we are maintaining until the photolog begins from a zero mileage. The distance should then be identified in MarkingView as negative (-) mileage until the zero point begins.

For the outbound direction, you will need to continue the mileage from where the photolog van stopped taking measurements, again through the use of a DMI. Since this mileage is a continuation of photolog mileage, it would still be a positive mileage.

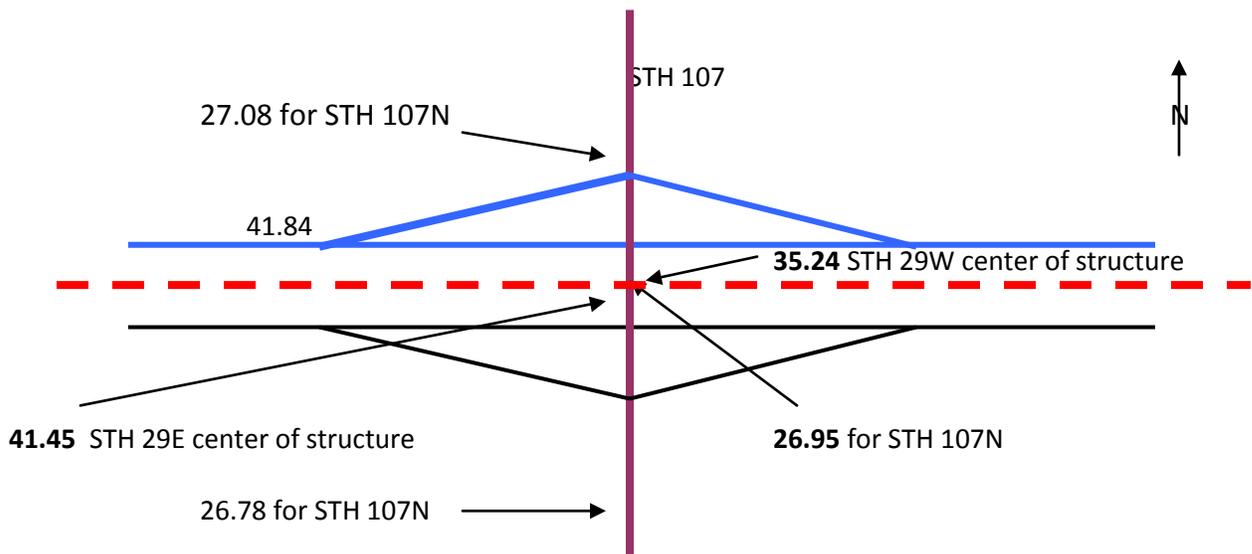


**Agreed to at the MIMS User Group Meeting  
5/17/06**

- Where two state trunk highways intersect, the special markings shall be identified with the route that they are on. *They will be associated to the direction of travel for any 4 lane roadway and by the primary direction of travel for two lane roadways.*

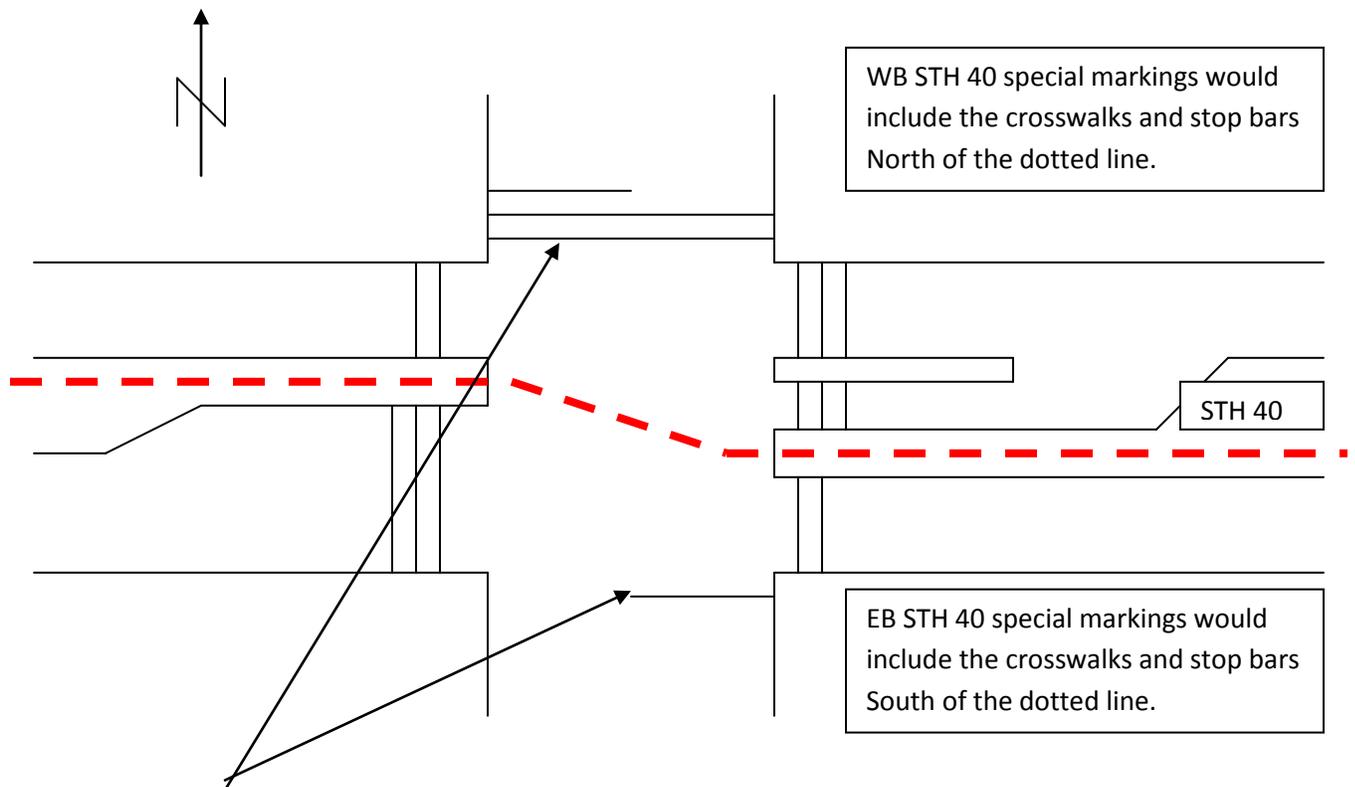
In the example below;

- Special markings for the on or off ramps of WB STH 29 would be associated with route STH 29 W at mile marker 35.24.
- Special markings for the on or off ramps of EB STH 29 would be associated with route STH 29 E at mile marker 41.45.
- Special markings for STH 107 within this interchange area would be identified with route STH 107 N at mile marker 26.95.



#### 4 Lane Roadways – Special Markings

- Where two roadways intersect, the special markings shall be identified with the route that they are on and will be associated to the direction of travel.



Northbound or southbound crosswalks would be included in the database only if we would maintain them or they are under a permit

## Standard Reports

Standard reports have been created and are available for using. They are installed on the Citrix server and are accessible by everyone in Citrix. These Reports are Read-Only and cannot be modified by anyone. To make changes to the reports you must save them as your own first.

### Report Creation Training Options

Report creation training manuals can be found on the dotnet at:

CarteGraph Basic Reporting-

<\\spo31fp1\simcode\ProductSupport\cartegraph-reference-materials\dtsd-cartegraph-basic-reporting.pdf>

CarteGraph Advanced Reporting-

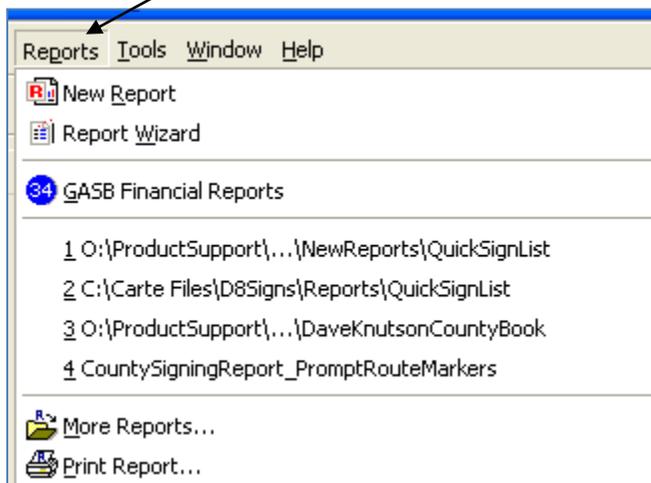
<\\spo31fp1\simcode\ProductSupport\cartegraph-reference-materials\dtsd-cartegraph-advanced-reporting.pdf>

There are also online classes that are offered by CarteGraph on a fairly regular basis. Anyone can log in using the WisDOT login and sign up for a class. To access this site:

1. Go to CarteGraph home page: <http://www.cartegraph.com>
2. You will now be directed to the Client Support Center.
3. There you will find Schedules and Agendas for all of the different classes that are being offered.

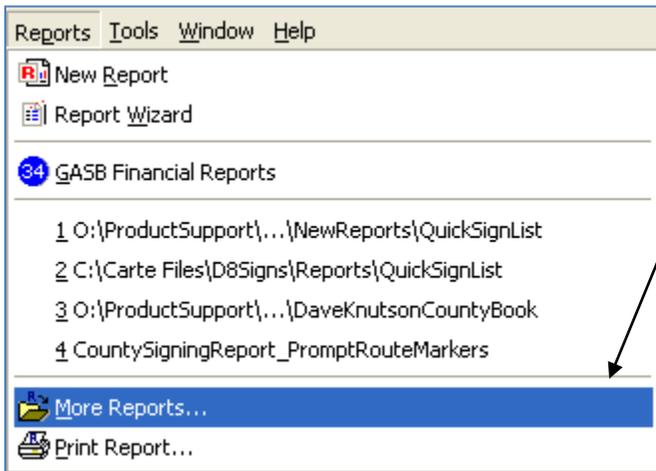
### Running Reports

Click on the **Reports** option in the Tool Bar.

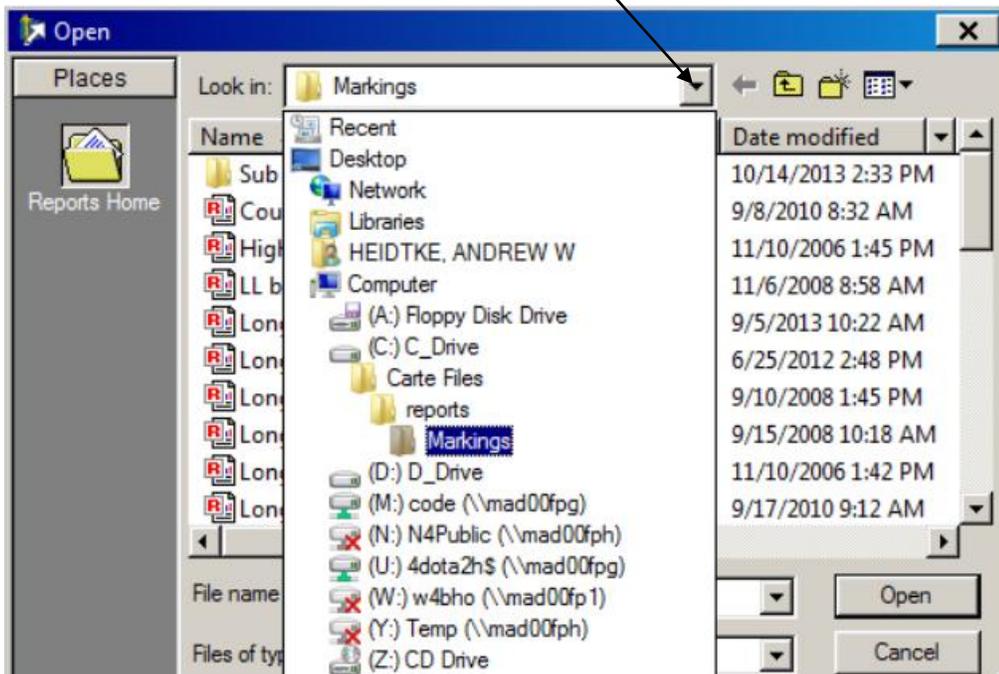


- A list of reports that have previously been run may appear in the list.
- If the report you want is in the list just choose that one.

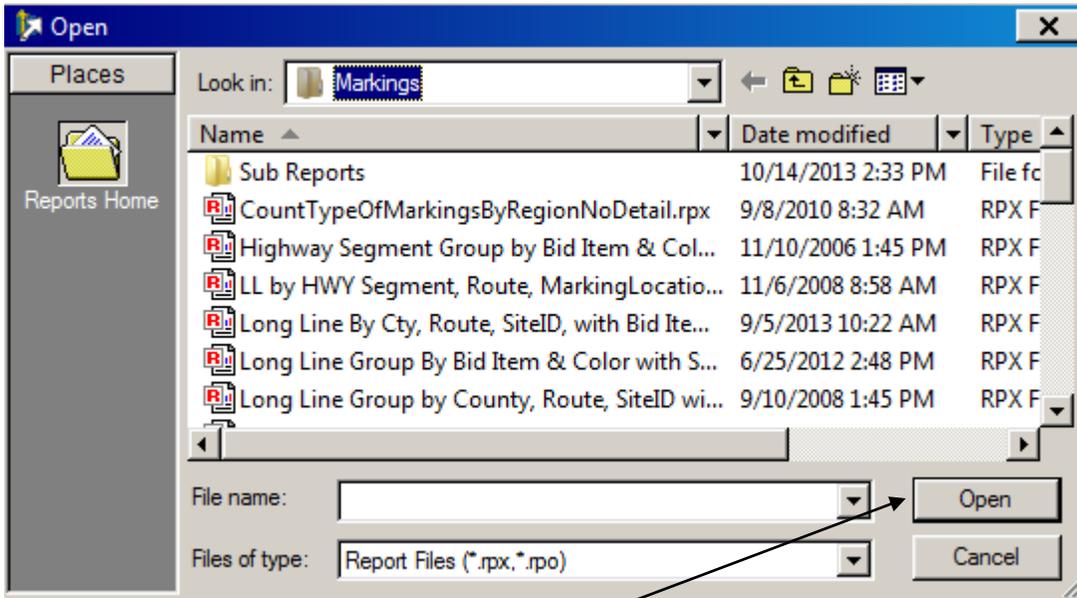
- If the report you want is not in the list choose **More Reports** from the Reports Menu



The **Open** window will appear. Click on the down arrow next to **Look in** and navigate to the C:\Carte Files\reports\Markings directory.



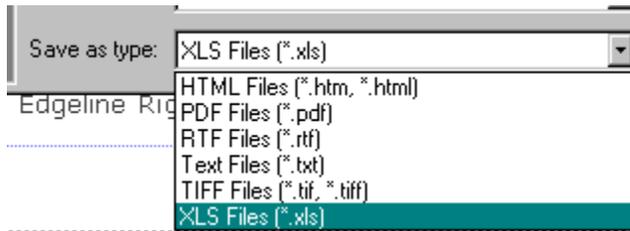
A list of available reports will display.



Select the report from the list and click **Open**.

- The report will now be generated and will appear on your screen.
- It can then be printed or saved to a file for later reference.

- Print the report.  Print...
- Export the report to a file. 
- If you click the Export  button you will be asked to supply a file type, file location and file name.



File types available are: .....

- Saving a file as a PDF (\*.pdf) saves it in Adobe format and it suitable as an attachment in an email.
- Saving a file as an XLS (\*.xls) format allows you to open it in Excel for further formatting or sorting.

Close the report by clicking on the lower X in the window (below the red X).

The screenshot shows a software window titled "Cartograph Navigator - MARKINGview - [TotalFootageByBidItem]". The window contains a report titled "TotalFootageByBidItem" with a "Summary of Filter" indicating that the data is filtered by "Code\Type of Marking is equal to 'Special Marking'". The report displays a table with 15 rows of data, each representing a different bid item and its corresponding pavement marking details and length in feet (L.F.).

Item ID	Description	L.F.
646.0101.S	Pavement Marking, Paint, High Build, 4-inch	5,122 L.F.
646.0103	Pavement Marking, Paint, 4-Inch	376,789 L.F.
646.0106	Pavement Marking, Epoxy, 4-Inch	150,080 L.F.
646.0113	Pavement Marking, Paint, 6-Inch	106 L.F.
646.0116	Pavement Marking, Epoxy, 6-Inch	158 L.F.
646.0123	Pavement Marking, Paint, 8-Inch	212 L.F.
646.0126	Pavement Marking, Epoxy, 8-Inch	11,076 L.F.
646.0133	Pavement Marking, Paint, 12-Inch	0 L.F.
646.0136	Pavement Marking, Epoxy, 12-Inch	210 L.F.
646.0138	Pavement Marking, Prefomed Thermoplastic, 12-Inch	0 L.F.
646.0146	Pavement Marking, Epoxy, 16-Inch	0 L.F.
646.0153	Pavement Marking, Paint, 18-Inch	0 L.F.
646.0156	Pavement Marking, Epoxy, 18-Inch	0 L.F.

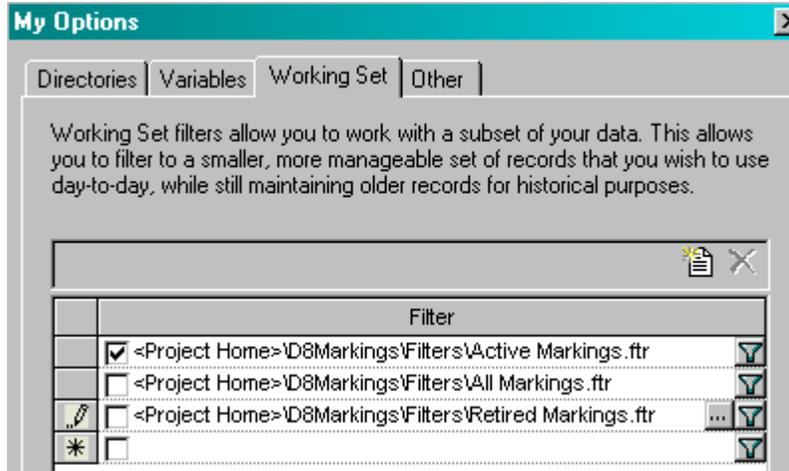
The window also shows a status bar at the bottom with the following information: "Markings: ID: 1520757916 | Viewing | Record: 12 of 13449 | Total: 160975 | Filter | Sort".

## Filter Builder Introduction

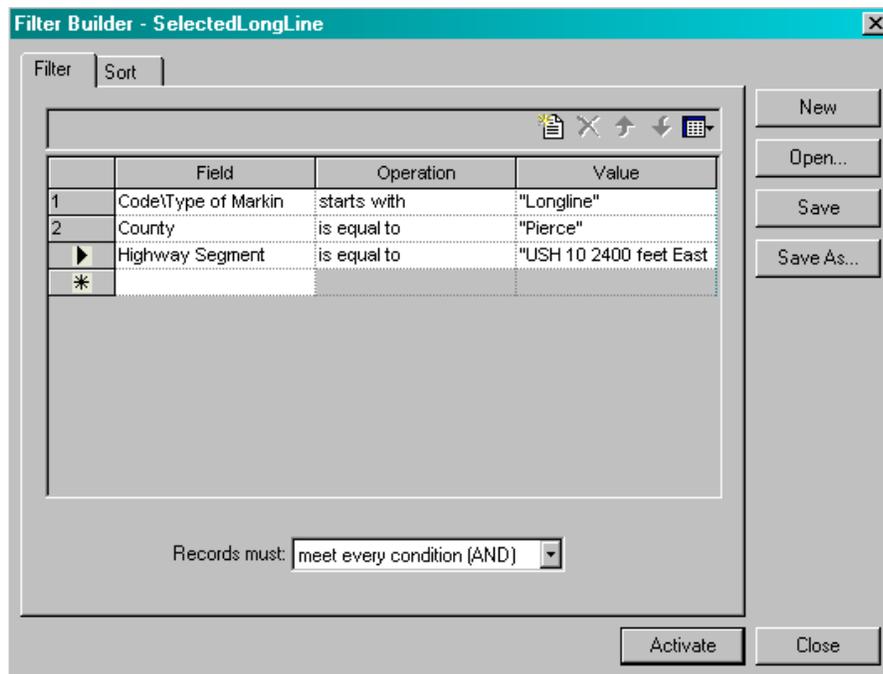
The Filter Builder allows you to create and edit custom filters to select and sort records.



The filter contains criteria which are statements of what you are looking for. **Working sets are always applied to the data first, before any other filters are applied. Standard Working Sets were installed during installation and should not be modified.** Standard working sets are located in the Tools\My Options menu.



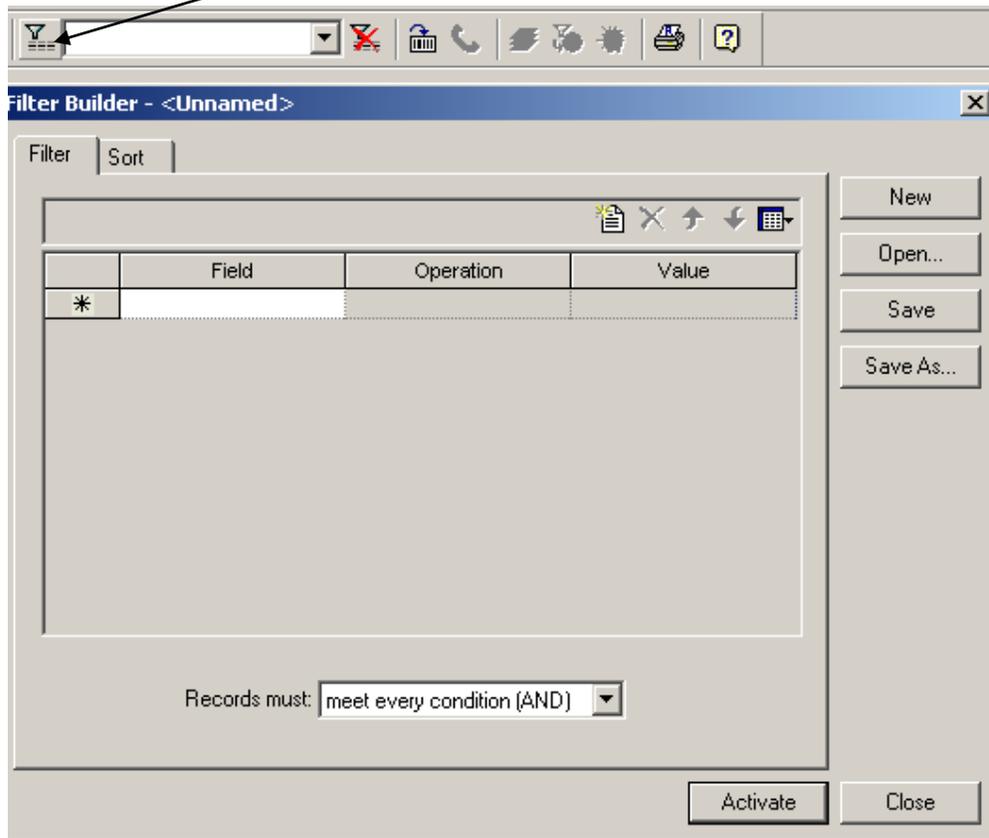
Record contents are compared to the criteria starting with the top line of the filter and going down the list. When a record meets all of the criteria it is selected as part of the filtered list. Each line in the filter is a selection process. More lines mean more selections - and fewer records in the filtered list.

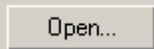


## Filter Builder at a Glance

Building a custom filter is a step by step process:

1. Launch Filter Builder.

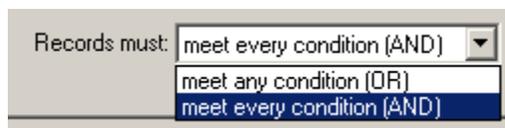


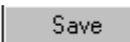
2. The Filter Builder window is displayed.
3. To modify a stored filter, click.  

4. To create a new filter, click.  

5. Select a field.
6. Select an operation.
7. Select a value.
8. Repeat steps 5 - 7 for each condition in the filter.
9. Choose logic for 'Records Must...' (AND, OR)

### NOTE:

Filters are located on your C:\Carte Files\filters\Markings\ folder and new filters should also be saved to this location.



10.  or  if desired.
11. Click  to filter the records with the filter and sort you just created.

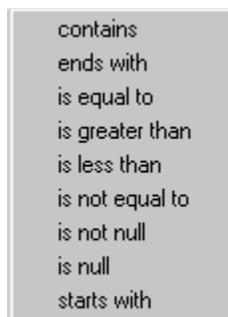


**Important!** The current filter is cleared by pressing the “Show All Records” button on the Tool Bar.

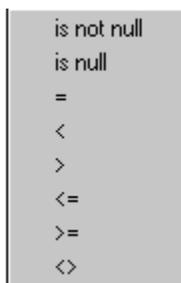
### Filter Builder Operations

The "Operation" used is the comparison made to the value in the selected field. The actual comparison made depends on the type of field selected. "Is Null" will create a filter based on whether the field is blank. "Is Not Null" creates a filter based on whether the field contains a value.

**Text field** operations include special comparisons that let you look for part of a text string.



**Numeric field** operations make mathematical comparisons.

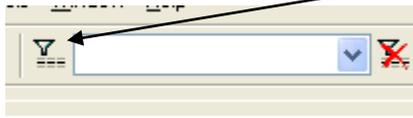


**Date field** operations offer a wide variety of date comparisons.

is after	is through
is after today	is through today
is after [] days ago	is today
is after [] days from now	is within last [] days
is after [] months ago	is within last [] months
is after [] months from now	is within last [] years
is after [] years ago	is within next [] days
is after [] years from now	is within next [] months
is before	is within next [] years
is before today	
is before [] days ago	
is before [] days from now	
is before [] months ago	
is before [] months from now	
is before [] years ago	
is before [] years from now	
is from	
is from today	
is not null	
is not on	
is not within last [] days	
is not within last [] months	
is not within last [] years	
is not within next [] days	
is not within next [] months	
is not within next [] years	
is null	
is on	

## Building a Filter for MarkingView

Start a new filter by clicking on the **Filter Builder** button.



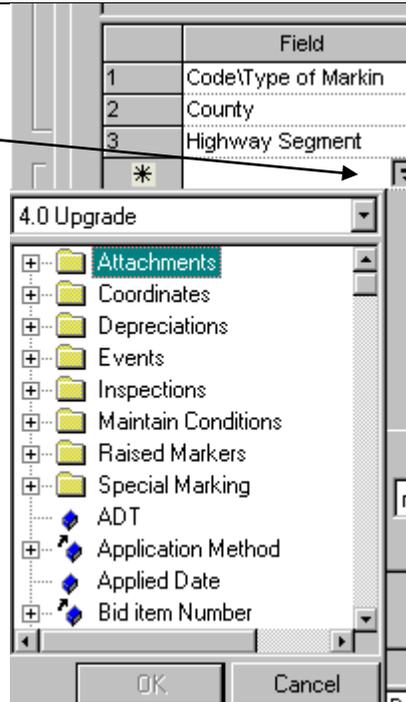
### Selecting Filter Criteria

#### Select Field

Locate the fields to be included by clicking on the dropdown list arrow next to the Field column.

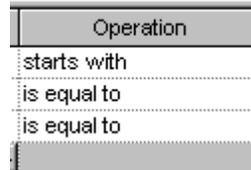
From the Field list select fields to be included in your filter with a double click.

Only fields can be placed in a filter. Fields are indicated with a blue diamond.



#### Select Operation

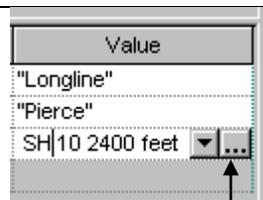
Choose the Operation which the value of the field must match.



#### Select Value

Type in the value you are looking for in the Value section of the grid.

When filtering for values that are in a lookup fields you can select values from a list by clicking on the ellipses (...) icon.



#### TIP!

Filtering to a field that is defined as a Yes/No field (e.g. Footage Verified or Delete Flag fields) the Operation would be is "equal to" and the Value is either "Yes" or "No".

	Field	Operation	Value
1	Footage Verified	=	Yes

To create a prompt so that a person can specify the value used in the filter, enter the following in the 'value' section:

?"Prompt" where prompt contains the text that will be displayed when the filter is run.

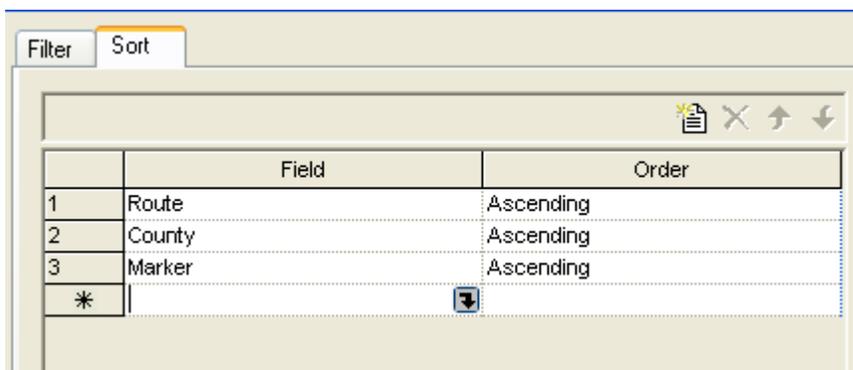
	Field	Operation	Value
1	Code\Type of Markin	starts with	"Longline"
2	County	is equal to	? <u>"Enter County"</u>

Click "Activate" to display the filtered records.



### Filter Builder – Adding Sorts in a Filter

The filter builder contains a tab that stores sort information. These sort parameters will be applied to all records in the filtered set. A filter is not necessary to use a sort.



### Clear a Filter (Show all Records)

Click the Show all Records icon to clear out the filter.



## Creating Filters “On the Fly”

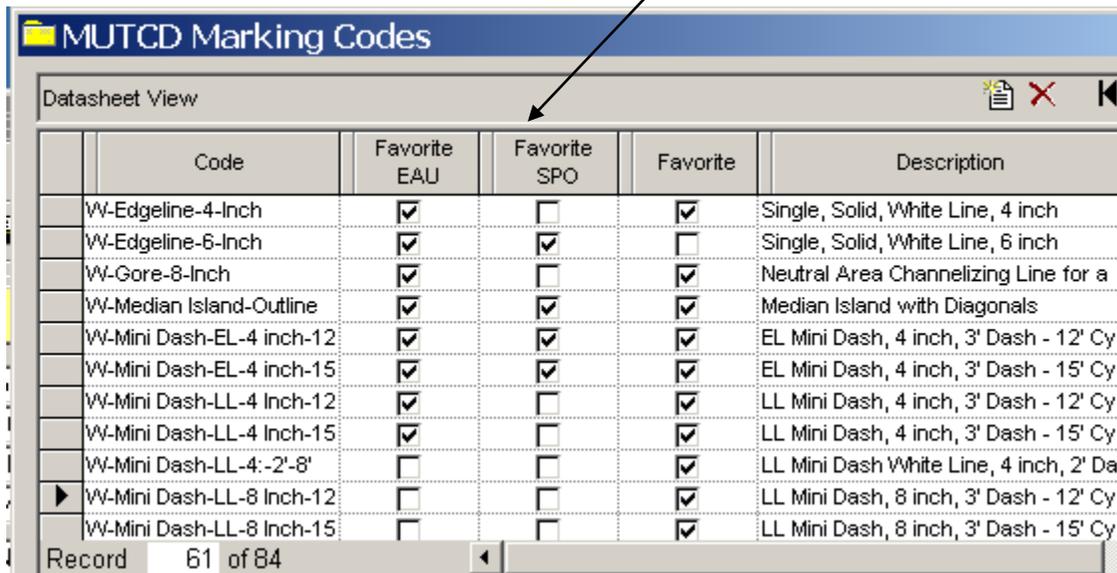
You can create simple filters on the fly without using the filter builder. There are several filter operations that can be used.

1. You must be viewing a record to create new filters. You can use either a form or record control view as a starting point for creating filters on the fly.
2. Navigate to a record that contains values the filter will use in the criteria.
3. Right-click on the field (Skip to step 6)  
**OR** Click in the field to be used for the criteria.
4. Click to select records containing the value in the current field.
5. Click  By Value to select records containing the value in the current field.
6. Click  Prompt for Value... to select records containing the value you enter when the filter is activated.
7. Click  Excluding Value to select records that do NOT contain the value in the current field.

**NOTE:** 'On the Fly' Filters can be saved or combined with other filters.

## Using Quick Filters

Some of the libraries that you will be using have what is called a “Quick Filter”. Quick filters allow you to limit the amount of choices that will show up in a list box. An example of this is the MUTCD Marking Codes library. There are multiple “Favorites” fields that can be checked.

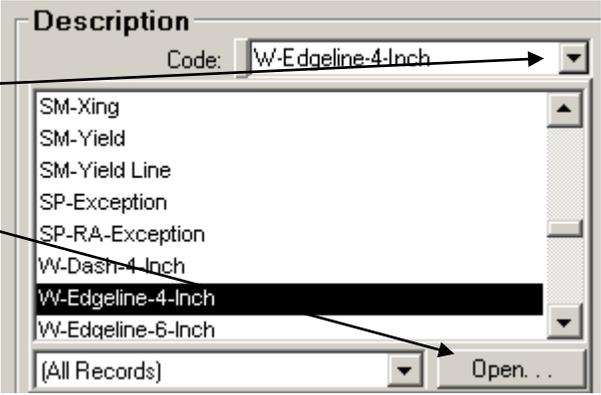
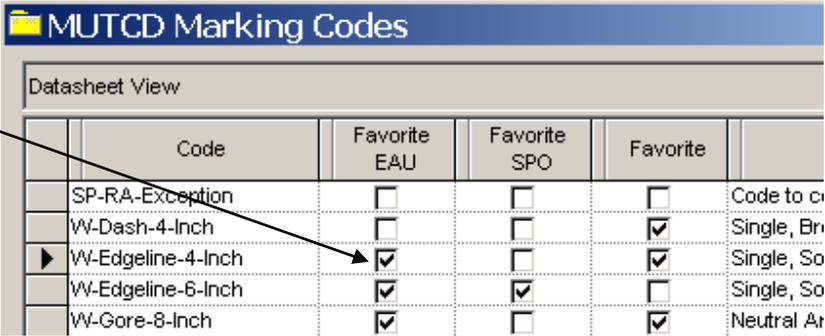


Code	Favorite EAU	Favorite SPO	Favorite	Description
WV-Edgeline-4-Inch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Single, Solid, White Line, 4 inch
WV-Edgeline-6-Inch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single, Solid, White Line, 6 inch
WV-Gore-8-Inch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Neutral Area Channelizing Line for a
WV-Median Island-Outline	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Median Island with Diagonals
WV-Mini Dash-EL-4 inch-12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EL Mini Dash, 4 inch, 3' Dash - 12' Cy
WV-Mini Dash-EL-4 inch-15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EL Mini Dash, 4 inch, 3' Dash - 15' Cy
WV-Mini Dash-LL-4 Inch-12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LL Mini Dash, 4 inch, 3' Dash - 12' Cy
WV-Mini Dash-LL-4 Inch-15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LL Mini Dash, 4 inch, 3' Dash - 15' Cy
WV-Mini Dash-LL-4'-2'-8'	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LL Mini Dash White Line, 4 inch, 2' Da
▶ WV-Mini Dash-LL-8 Inch-12	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LL Mini Dash, 8 inch, 3' Dash - 12' Cy
WV-Mini Dash-LL-8 Inch-15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LL Mini Dash, 8 inch, 3' Dash - 15' Cy

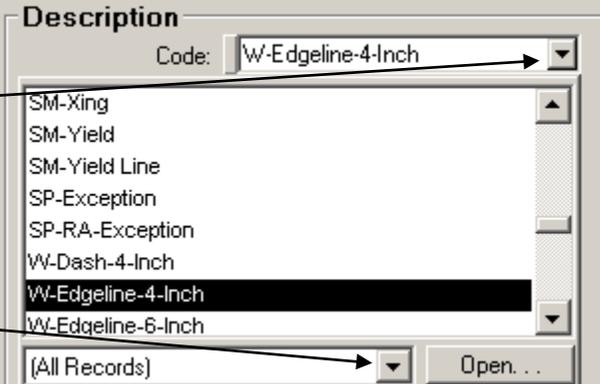
Record 61 of 84

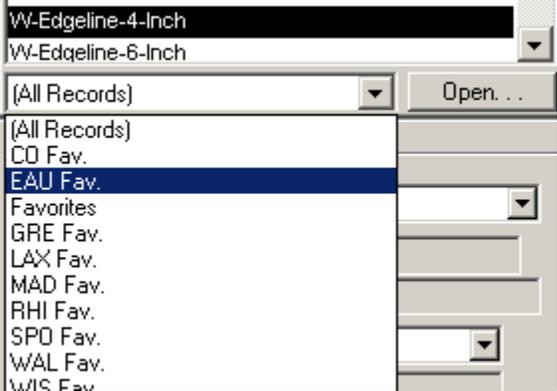
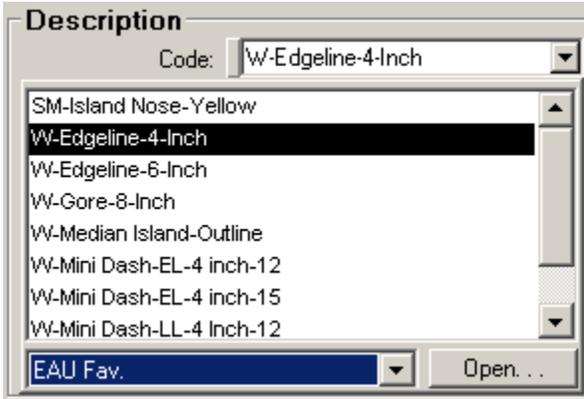
By checking the boxes shown above a person can decide which Favorite they want to display on the form. If any of the Favorite columns are hidden follow the process outlined below to show them.

## Selecting Favorites in a Library.

<p>Open the library by clicking on the down arrow button.</p> <p>Click the Open button.</p>																															
<p>Check the items that you want displayed when you choose a Favorites "Quick Filter".</p> <p>If the columns are not displayed refer to <a href="#">Change Library or Grid Columns</a> section.</p>	 <table border="1" data-bbox="685 907 1487 1125"> <thead> <tr> <th>Code</th> <th>Favorite EAU</th> <th>Favorite SPO</th> <th>Favorite</th> <th></th> </tr> </thead> <tbody> <tr> <td>SP-RA-Exception</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Code to c</td> </tr> <tr> <td>W-Dash-4-Inch</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Single, Br</td> </tr> <tr> <td>W-Edgeline-4-Inch</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Single, So</td> </tr> <tr> <td>W-Edgeline-6-Inch</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Single, So</td> </tr> <tr> <td>W-Gore-8-Inch</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>Neutral Ar</td> </tr> </tbody> </table>	Code	Favorite EAU	Favorite SPO	Favorite		SP-RA-Exception	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Code to c	W-Dash-4-Inch	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Single, Br	W-Edgeline-4-Inch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Single, So	W-Edgeline-6-Inch	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Single, So	W-Gore-8-Inch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Neutral Ar
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## Setting a Quick Filter Option

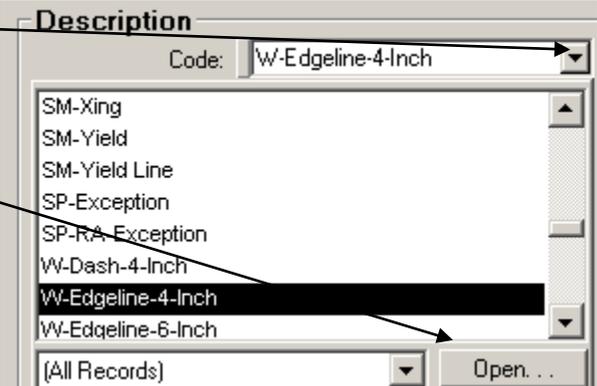
<p>Click on the down arrow to the right side of the field.</p> <p>The drop down window will appear.</p> <p>Click the arrow by the (All Records) window.</p>	
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<p>Select which Quick Filter you want to apply.</p>	
<p>By choosing EAU Fav. Only the items that have the "Favorite EAU" box checked in the library.</p>  <p>See previous page for process to set Favorites in a library.</p>	

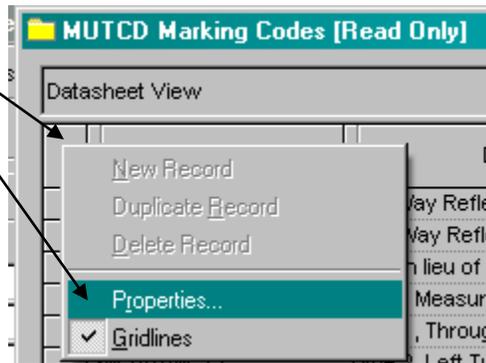
**Change Library or Grid Columns**

If From a form containing the field:

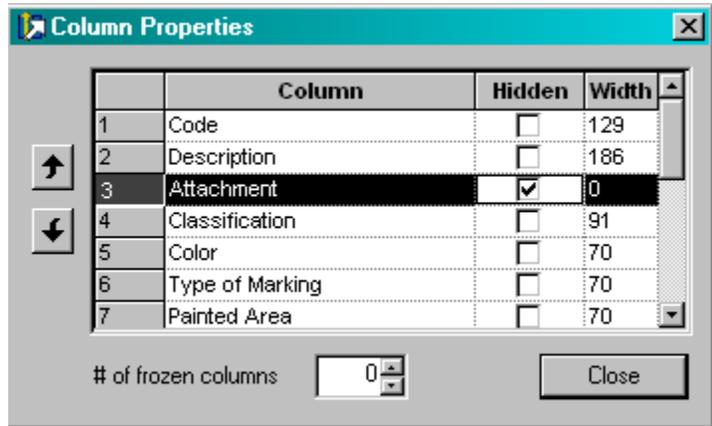
1. Click  to open the list box.
2. Click . The library will be displayed.



3. Right-click the upper left corner of the display grid. Choose Properties.



4. The Column Properties window is displayed.
5. By un-checking the **Hidden** box a column will no longer be displayed.
6. Selecting a field and clicking either of the arrow buttons changes the field's position on the grid.



# Multi-Edit Procedure for Retiring Records

## SignView, MarkingView or SignalView

1. Make sure that you have created a filter for only the records you want to retire.
  - a. **Note:** If you are retiring only one record you do not need to use the MultiEdit tool. You can retire just that record by completing a History Event Entry and setting the Activity to "Retire".

The screenshot shows the 'MARKINGview' interface with the following sections:

- Location:** Region: Southeast - West Allis, County: Ozaukee, Route: \_060W, Site ID Start: LISBETH LA, Highway Segment: Oz Co Line to STH 181, Pavement Type: Asphalt.
- Description:** Code: W-Dash-4 Inch, Color: White, Type: Longline White, Marking Location: Bypass Lane, Segment Length: 263.9999999999999 ft, Painted Footage: 66, Measured Footage: 62.5, Footage Verified: , Applied Date: 08/15/2013.
- Contract-Related:** Bid Item Number: 646.0103, Units and Description: L.F., Pavement Marking, Paint, 4-Inch, Application Method: [blank], Current Project #: 4766-38-10, Contract Type: [blank], Issued To: [blank], Performed By: Washington Co, Description: [blank], Ra - Reflectivity Value: [blank], Maintaining Authority: Wisconsin DOT.
- Spotting:** Last Time Spotted: [blank], Next Spotting: [blank], Spotted By Who: [blank], Spotting Distance: [blank], Special No Passing Zone: , Spotting Notes: [blank].
- Photolog Update:** Update THIS Entry, Update ALL Entries, New CD Year: [blank].
- Previous Photolog Information:** Date of CD\_bak: [blank], Start Marker\_bak: [blank], Start X\_bak: [blank], Start Y\_bak: [blank], Start Frame Number\_bak: [blank], End Marker\_bak: [blank], End X\_bak: [blank], End Y\_bak: [blank], End Frame Number\_bak: [blank].
- Historical:** Table with columns Activity and When Ended. Records: Apply - Epoxy 08/18/2004, Apply - Water 07/10/2008, Apply - Water 08/06/2009, Apply - Water 07/25/2011. Record 1 of 6.
- Next Scheduled Activities:** Next Activity Date: [blank], Next Activity Type: [blank].

At the bottom, the status bar shows: Markings ID: 307355697, Viewing, Record: 16 of 19, Total: 160975, Filter, Sort.

Note the number of records after you have activated the filter. —→

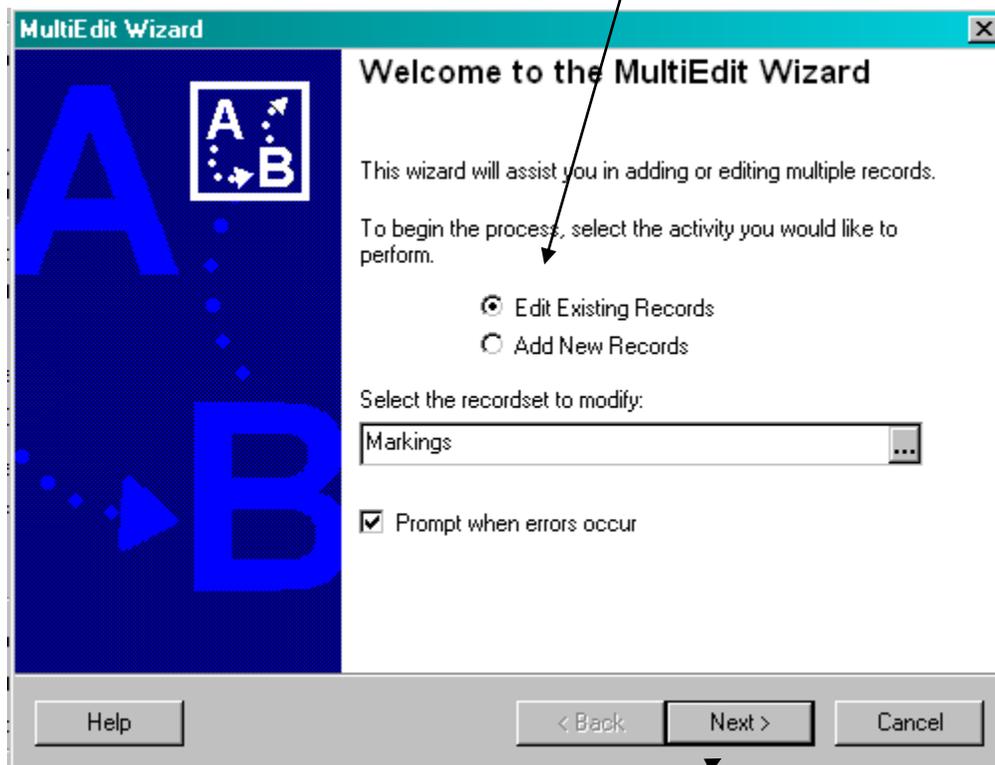
2. Go to Tools/MultiEdit.

The screenshot shows the 'Cartograph Navigator - MARKINGview - [Longline V8.0]' application. The 'Tools' menu is open, with 'MultiEdit' selected. The interface is divided into several sections:

- Location:** Region: Southeast - West Allis; County: Ozaukee; Route: 060W; Site ID Start: LISBETH LA; Highway Segment: Oz Co Line to STH 181; Pavement Type: Asphalt; Start Marker: 5.87 mi; End Marker: 5.92 mi; Map Reference: 2 Lane; Date of CD: 06/18/2010.
- Description:** Code: W-Dash-4 Inch; Color: White; Type: Longline White; Marking Location: Bypass Lane; Segment Length: 263.999999999999 ft; Painted Footage: 66; Measured Footage: 62.5; Footage Verified: ; Applied Date: 08/15/2013.
- Contract-Related:** Bid Item Number: 646.0103; Units and Description: L.F.; Pavement Marking, Paint, 4-Inch; Application Method: ; Current Project #: 4766-38-10; Contract Type: ; Performed By: Washington Co; Description: ; Ra - Reflectivity Value: ; Maintaining Authority: Wisconsin DOT.
- Spotting:** Last Time Spotted: ; Next Spotting: ; Spotted By Who: ; Spotting Distance: ; Special No Passing Zone: ; Spotting Notes:
- Photolog Update:** Update THIS Entry; Update ALL Entries; New CD Year:
- Previous Photolog Information:** Date of CD\_bak: ; Start Marker\_bak: ; Start X\_bak: ; Start Y\_bak: ; Start Frame Number\_bak: ; End Marker\_bak: ; End X\_bak: ; End Y\_bak: ; End Frame Number\_bak:
- Historical:** Table with columns: Activity, When Ended. Records: Apply - Epoxy (08/18/2004), Apply - Water (07/10/2008), Apply - Water (08/06/2009), Apply - Water (07/25/2011). Record 1 of 6.
- Next Scheduled Activities:** Next Activity Date: ; Next Activity Type:

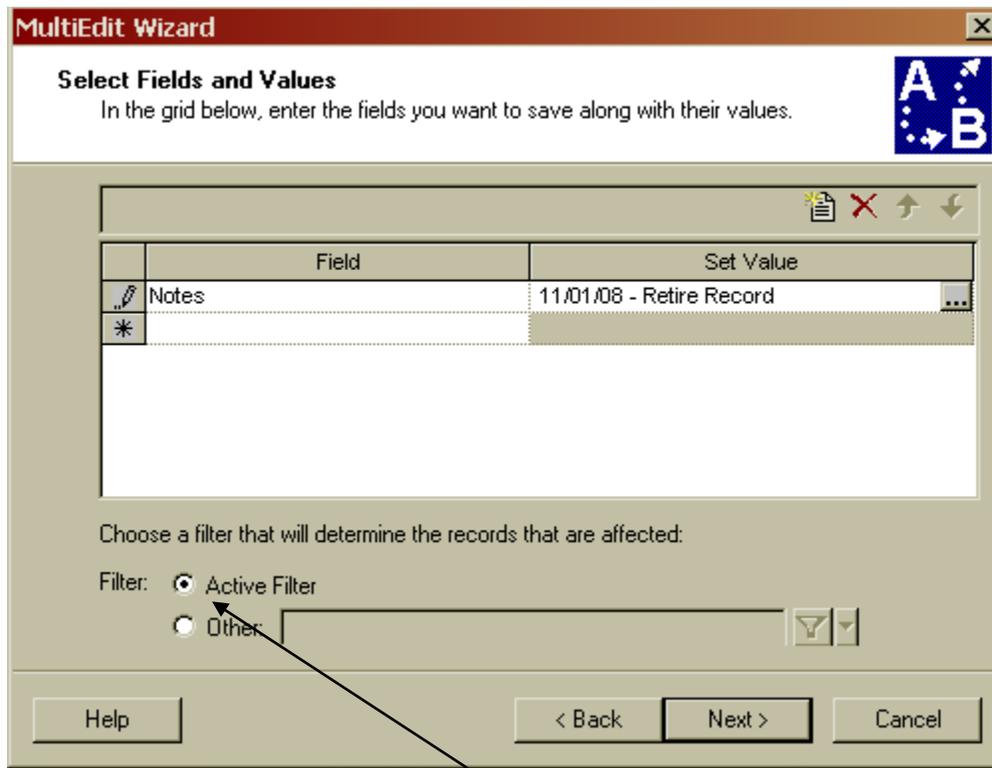
At the bottom, there is a status bar: Markings ID: 3073555697 | Viewing | Record: 16 of 19 | Total: 160975 | Filter | Sort

3. Edit Existing Records should be checked.



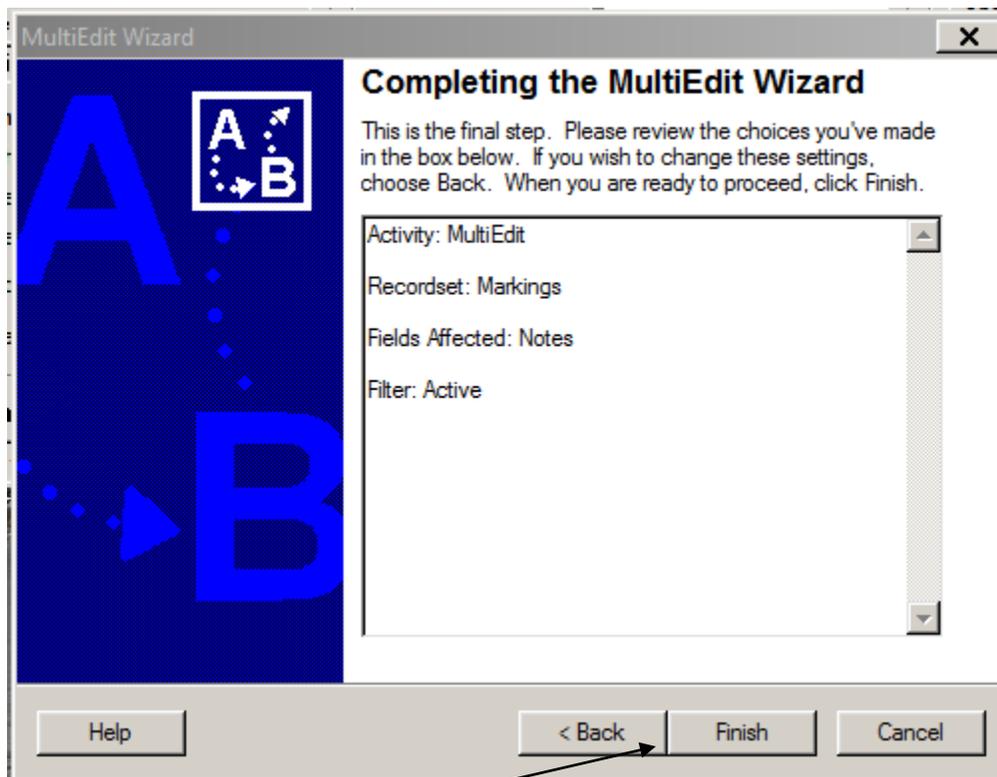
4. The recordset will default to the module you are working with – Signs, Marking or Signals.
5. Click **Next** to proceed.

6. Identify a field to revise such as Notes, Comments or Revision Comments. You simply could say "Retire Record" with a date. A field that could also be used is the State field. In the Set Value column you can type Wisconsin since that is the default value on all existing records.
7. A field is required to activate the MultiEdit process.

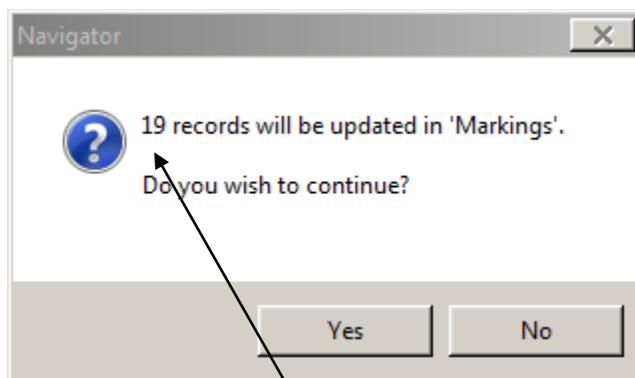


8. Make sure the Active Filter is selected.
9. Click **Next** to proceed.

10. The following screen will appear.



11. Click **Finish**.



12. Verify that the number of records displayed is the same number of records you originally filtered to.

13. Click **Yes** to continue.

14. An Event Entry form will now need to be completed.
15. It is important to fill this in since this is where you enter the Activity of "Retire Record".
16. Following are examples from each Module with the "Why" filled in.
17. Once you have filled in the Event Entry click **Save**.

### SignView

Event Entry

Completed:  Reset

When Started: 10/28/2008

When Ended: 10/28/2008

Work Order #:

Activity: Retire Record

Who: dotfxc

Why: Obsolete or Not Needed

Cost:

Notes:

Save Bypass

### MarkingView

Event Entry

Completed:  Reset

When Started: 10/28/2008

When Ended: 10/28/2008

Work Order #:

Activity: Retire Record

Who: dotfxc

Why: Zone Change

Cost:

Notes:

Save Bypass

### SignalView

Event Entry

Completed:  Reset

When Started: 10/28/2008

When Ended: 10/28/2008

Work Order #:

Activity: Retire Record

Who: dotfxc

Why: Installation removed or transferr

Cost:

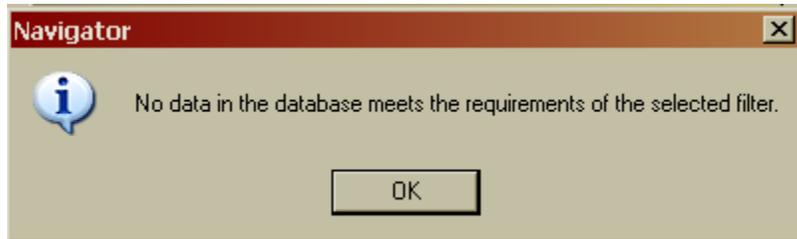
Notes:

Equipment:

Equipment ID:

Save Bypass

18. When the MultiEdit is complete you will receive the following message.



19. This message appears because the Working Set filter is set to show only active records and you have just retired all that were in your filter.

20. Click **OK**.



21. Click the Show All Records icon to remove the filter.