DDV

USER MANUAL
for the
Transportation Special
Railroad Symbol Set

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Requesting Additional Symbols

Over the years that Data Deja View (DDV) has been producing marker symbols, there has been surprisingly little feedback or requests for additional symbols. If users of existing symbol sets have additional symbol needs, DDV would appreciate such feedback. Symbol design ideas would be most welcome. Where a group of symbols is needed, it would be helpful to include a description of the data field(s) the symbols would be applied to and/or other symbol categorizations required. If DDV feels the symbols would have a sufficient user base, the request will be added to the work queue.

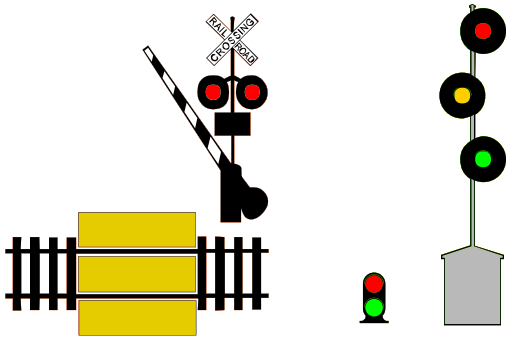
TRANSPORTATION SPECIAL RAILROAD SYMBOL SETS

Marker Symbols by Data Deja View
For ArcView 3.x and ArcGIS Desktop

Version "A" Created 01/15/04

This sets contains a total of **58** symbols:

26 Rail Crossing Protection Symbols
32 Railroad Block Signal Symbols



REQUIRED FILES

In order to use the Transportation Special Railroad Palettes and/or Styles, install the font files listed below.

Rail Crossing Protection Symbols:

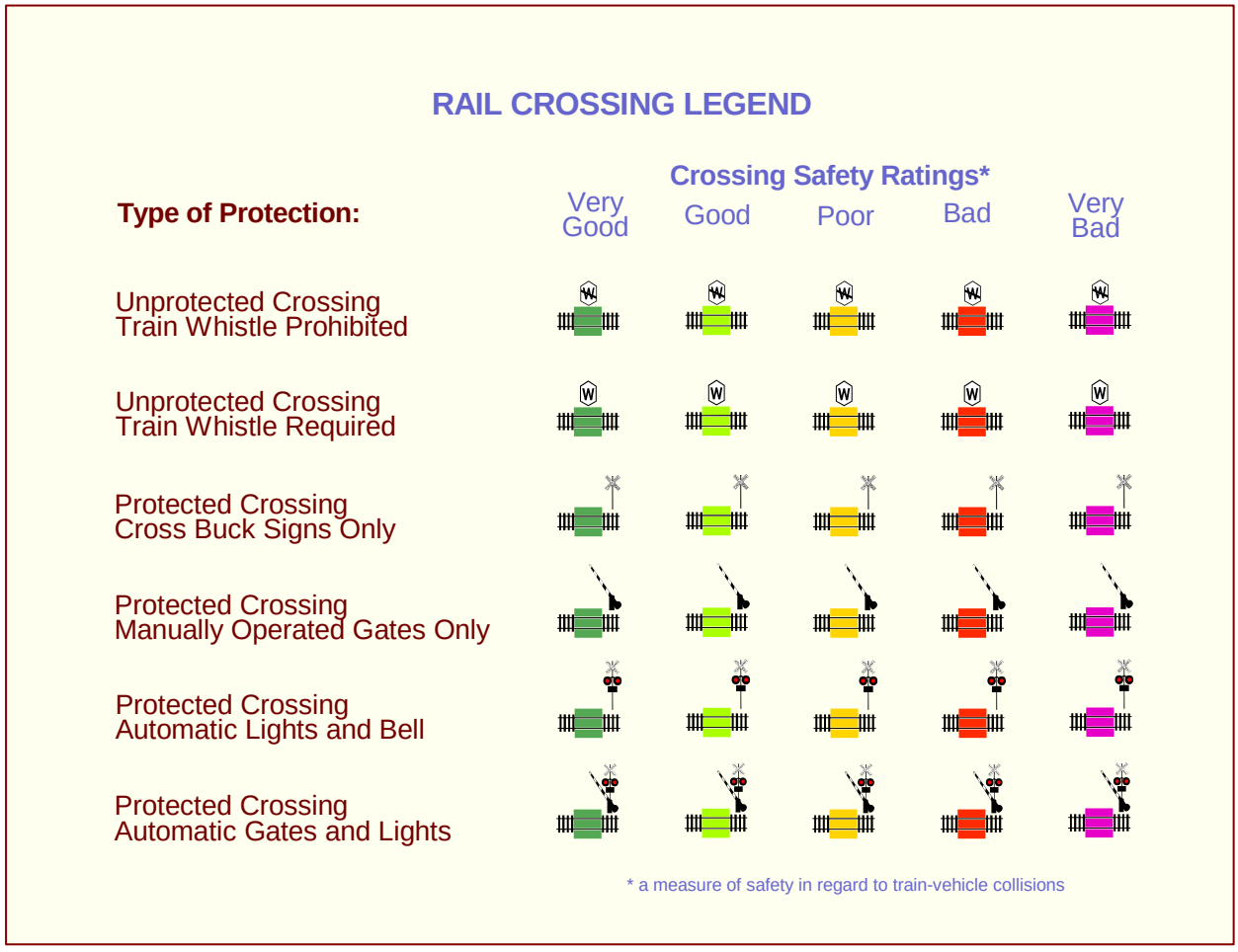
FONTS	PALETTE (ArcView 3.x)	STYLE (ArcGIS Desktop)
DDV0024A.TTF	ddv0024a-Rail-Crossing-Protection.avp	ddv0024a Rail Crossing Protection.Style

Railroad Block Signal Symbols:

FONTS	PALETTE (ArcView 3.x)	STYLE (ArcGIS Desktop)
DDV0034A.TTF	ddv0034a-Railroad-Block-Signals.avp	ddv0034a Railroad Block Signals.Style

Rail Crossing Protection Symbol Use

Some of the Rail Crossing Protection Symbols lend themselves to representing two different attributes. The shape obviously shows the type of protection offered at a crossing (cross-bucks, red wig-wag lights, etc.). For those symbols showing the track crossing, the color of the crossing element can be used to represent the second attribute, which might be crossing surface material (wood, metal, etc.) or, as shown in the legend below, a categorization of train-automotive collisions.

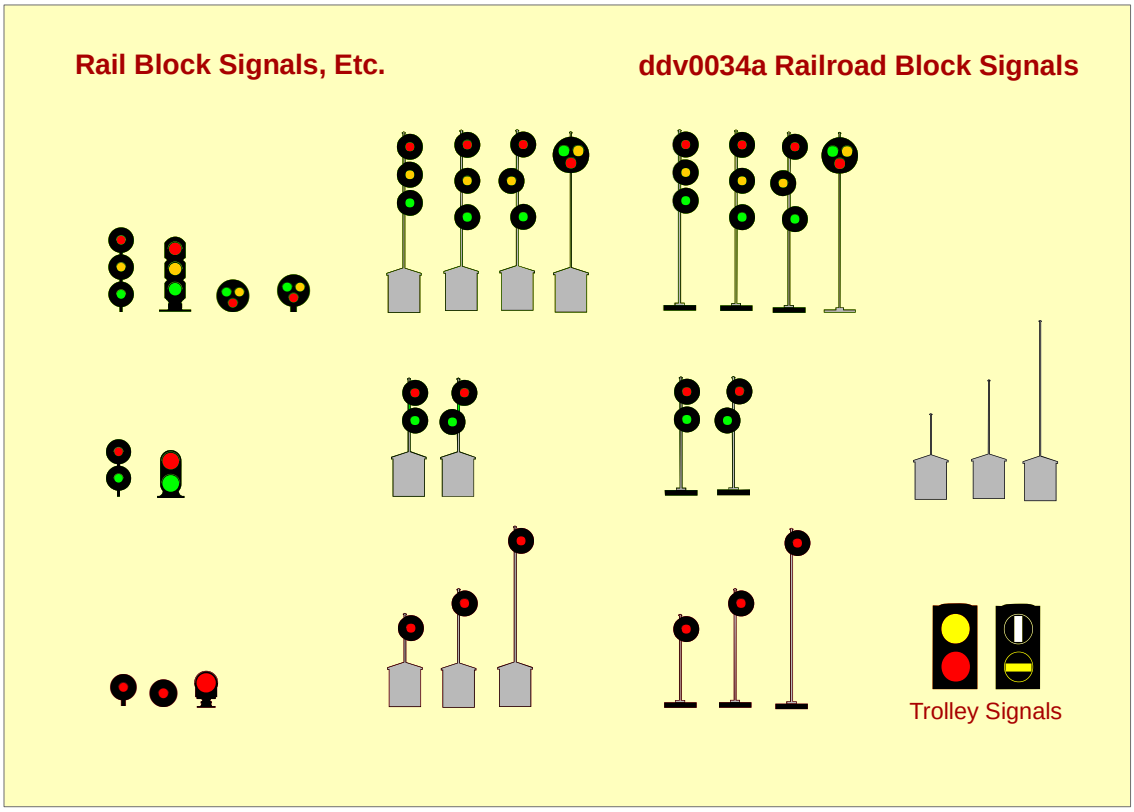


Railroad Block Signal Symbol Construction

Most tall rail block signals include ladders, guard rail and service platforms. These details have been omitted from the symbols included here as they would not show up distinctly at typically used symbol sizes and would have required

significant time to construct. The symbols include only the essential identification elements.

The actual signal items depicted in the set vary widely in size and many are very high in relation to their width. Some of the resulting symbols are, therefore difficult to distinguish in the Style Manager or Palette Manager. In addition to the symbol dump, the illustration below shows most of the symbols re-sized to better depict their relative proportions.



ddv0024a Rail Crossing Protection Marker Styles

Trans Rail 101

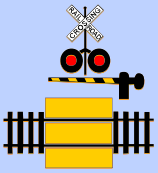
Trans Rail 102

Trans Rail 103

Trans Rail 104

Trans Rail 105

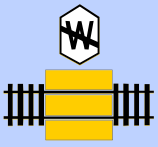
Trans Rail 111



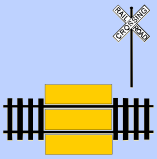
Trans Rail 117

Trans Rail 123

Trans Rail 106

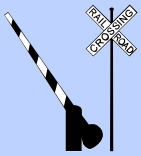


Trans Rail 112

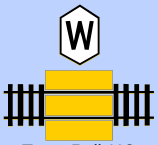


Trans Rail 118

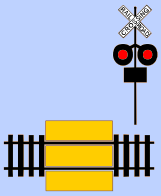
Trans Rail 124



Trans Rail 107



Trans Rail 113



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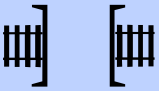
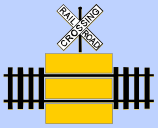
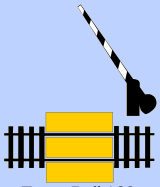


Trans Rail 125

Trans Rail 108



Trans Rail 114



Trans Rail 120

Trans Rail 126

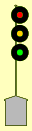
ddv0034a Railroad Block Signals Marker Styles


Trans Rail 001


Trans Rail 002


Trans Rail 003


Trans Rail 004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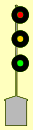
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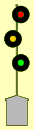

Trans Rail 007

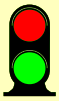

Trans Rail 008


Trans Rail 009


Trans Rail 010


Trans Rail 011


Trans Rail 012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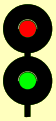

Trans Rail 014


Trans Rail 015

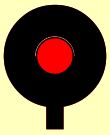

Trans Rail 016


Trans Rail 017


Trans Rail 018


Trans Rail 019


Trans Rail 020


Trans Rail 021


Trans Rail 022


Trans Rail 023


Trans Rail 024


Trans Rail 025


Trans Rail 026


Trans Rail 027


Trans Rail 028


Trans Rail 029


Trans Rail 030


Trans Rail 031


Trans Rail 032

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ArcView 3.x INSTALLATION INSTRUCTIONS

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NOTE: These instructions assume you temporarily saved the WinZip file in your C:\TEMP directory and unzipped the files in that location. Substitute paths as appropriate to your system and file names according to the file set you received. Instructions assume a WIN 95, WIN 2000 or NT 4.0 installation (action with WIN XP should be similar). C:\TEMP should now contain the following:

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxxx.TTF	Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).
ARCVIEW PALETTES: DDVxxxxx.AVP	Marker sets will have four or more palettes.
XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.	

Note that \.....\ refers to the path where ArcView as installed. For example "D:\ESRI\AV_GIS31\ARCVIEW"

WINTEL PLATFORM ==========

IMPORTANT: Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

STEP 1 INSTALL THE FONT - Navigate as follows:

Start -> Settings -> Control Panel -> Fonts -> File -> Install New Font

When prompted navigate to C:\TEMP and the names of the true type font(s) should appear. Select DDVxxxx (True Type). Also select the any other fonts included in this set of symbols. Press OK.

STEP 2 INSTALL THE PALETTE - Using Explorer or File Manager copy DDVxxxx.AVP to \.....\SYMBOLS.
STEP 3 LOAD PALETTE(S) - Now its okay to open ArcView. Load the palettes:

Window menu -> Show Symbol Window -> Palette Manager -> Load

This will invoke the Load Palette dialog. Navigate to \.....\SYMBOLS and select DDVxxxx.AVP. Don't worry if the load takes somewhat longer than for other palettes; that's normal.

The DDVxxxx symbols should now appear under Markers after any already loaded marker sets.

STEP 4 Use them ! ... and hopefully produce your Layouts a little more quickly.

NOTE: If you have installation problems, please refer to the Troubleshooting section below.

UNIX PLATFORM ==========

Data Deja View has only tested markers on one UNIX platform. The good news is that the markers installed successfully. The bad news is that UNIX ArcView does not put together composite markers the same way as WinTel ArcView. Some layer misalignments may be so severe that the marker is not useable. Markers with all color layers about the same size don't seem to exhibit this problem and appear to be useable.

With DDV series IIa shield designs, users may now see a decrease in UNIX alignment problems.

IMPORTANT: Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

And as with all UNIX systems "Don't forget your permissions!"

STEP 1 - Copy all the fonts to the font directory under ArcView. In the system tested by DDV this directory path was:

/usr/esri/arcview3/fonts

STEP 2 - Copy all the palettes to the symbols directory under ArcView. In the tested system this directory path was:

/usr/esri/arcview3/symbols

STEP 3 - Edit the "font.ndx" file to add entries for the new fonts. In the tested system the path to this directory was:

/usr/esri/arcview3/etc/font.ndx

Sample entries used for two DDV fonts are as follows:

```
TRUETYPE 990004 $AVHOME/fonts/ddvhazib.ttf 990004
TRUETYPE ddvhaz1b
   NAME    = ddvhaz1b
   FAMILY  = ddvhaz1b
   STYLE   = Normal

TRUETYPE 990005 $AVHOME/fonts/ddvvt01c.ttf 990005
TRUETYPE ddvvt01c
   NAME    = ddvvt01c
   FAMILY  = ddvvt01c
   STYLE   = Normal
```

STEP 4 - Open up ArcView and hopefully enjoy (at least some) of these custom symbols.

NOTE: Some UNIX flavors may need additional coaxing and coddling. See your (hopefully friendly and available) UNIX administrators.

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ArcGIS 8 Desktop INSTALLATION INSTRUCTIONS

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After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxxx.TTF	Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).
STYLESETS: DDVxxxxx.Style	Marker sets will have four or more style files.

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

WINTEL PLATFORM ONLY ==========

IMPORTANT: Make sure that ArcGIS Desktop is CLOSED before installing the fonts. Once ArcGIS is open, it may not recognize newly loaded fonts until it is closed and then opened again.

STEP 1 INSTALL THE FONT(S) – ESRI font installation instructions indicate that ArcGIS will recognize all fonts placed in the system font folder (typically C:\WINNT\FONTS). Data Deja View has successfully used fonts placed elsewhere by installing them with Adobe Type Manager (ATM).

STEP 2 INSTALL THE STYLE(S) – The .Style files may be placed in any directory (folder).

STEP 3 LOAD STYLE(S) - Open ArcMap and navigate as follows to load styles.

Tools menu -> Styles -> Style Manager

This will invoke the Style Manager window. In the upper right corner, click on the Styles button. From the drop down menu that appears, choose Add (near the bottom of the drop down). An Open dialog box appears. Use it to navigate to the directory where you placed the style files. Select the desired style and click on the Open button. The Style will now appear in the left hand window of the Style Manager, indicating that it is active in this ArcMAP session.

NOTE: If you have installation problems, please refer to the Troubleshooting section below.

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Troubleshooting:

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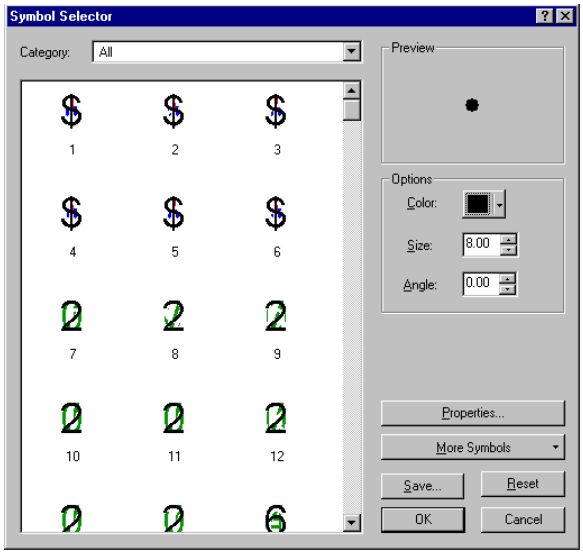
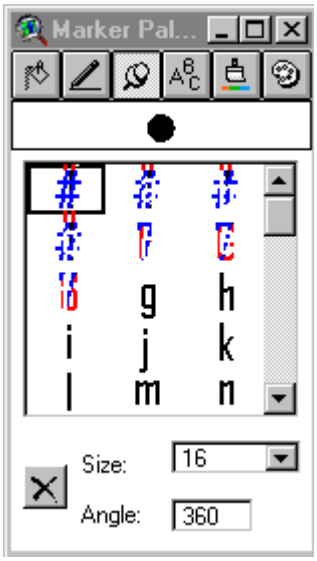
Problems With Initial Installation: People frequently experience problems with font installation for ArcView 3.x and ArcGIS 8.x. This occurs with ESRI fonts, Data Deja View (DDV) fonts and other custom fonts and has been experienced in Win 95, Win 98, Win NT and Win2000. DDV fully expects to see the problem continue in Win XP. It is evidenced by alphanumeric and special character symbols appearing instead of the expected marker symbols (see examples below). In most cases the appearance of these "weird" characters is due to a failure of the Windows operating system to properly register the font(s).

Typical Appearance of Marker Symbols When Font Installation Problems Occur



ArcGIS 8.x Style Manager



ArcView 3.x Palette Manager

First Line of Troubleshooting: Make sure that ArcView 3.x and ArcGIS 8.x are closed. Then open up the Control Panel's Fonts folder and look to see if the fonts show up.

Start --> Control Panel --> Fonts

On slower machines you may sometimes notice that the fonts aren't there, but that the screen repaints and the missing fonts suddenly appear. Most of the time that this occurs, the fonts are now properly registered. However, on fast machines you probably won't have a chance to see whether they are there or not before the repaint is completed.

If the fonts (TTF files) are not there, try installing them using the Font folder's Install New Fonts option:

Fonts → File → Install New Fonts

If the fonts are there (or you are not sure whether they only appeared after a screen repaint), select and delete the font(s) and then install them again from the Font folder.

Now open up ArcView 3.x and/or ArcGIS 8.x and try loading the palette or style again. Chances are that things will now work properly.

Second Line of Troubleshooting: Check that you have the proper fonts for the palette/style series you are trying to use (refer to the lists included in this document). The font and palette versions must match. If you have only the fonts from an old marker set version installed and try to load the palette from a new version, the "weird" characters will show up (and vice versa).

E.g., installing DDVWY01B.TTF, DDVWY02B.TTF and DDVWY03B.TTF and then loading palette DDVWY01C.AVP won't work because they were generated from different updates and the palette is hard coded with the names of the fonts it expects to use.

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Third Line of Troubleshooting: If there is another computer available to you with the appropriate software on it, try installing the fonts on that machine and see if the palette/style will load successfully there. If so, contact your system administrator or IT department for assistance. There is likely an operating system problem.

If You Still Can't Get Things to Work: Make note of what happened in the above troubleshooting steps and contact DDV, including this information. We will attempt to address any problems resulting from our end. In doing this we may ask you to send the fonts and palettes/styles that won't install back to DDV for analysis.

Other Troubleshooting Help: The ESRI online discussion groups, ArcView-L and ESRI-L have from time to time covered this topic and occasionally have found different causes and solutions. Please try looking back at older postings and/or in the archives before posting your own message. Seeing the same questions posted repeatedly does get rather old quickly.

The Magic Approach: Some time ago ESRI technical support indicated that some people were supposedly able to cure the problem by opening file manager or explorer and dragging the fonts to another directory and then immediately dragging them back again. (It's likely they were working with all fonts installed in the WINNT/FONTS directory or its equivalent in another Windows OS.) If you try this it might help to put a black cat on top of the monitor (then again it might not).

Markers Stop Working Properly:

If marker sets that used to load successfully suddenly start to show up as "weird" characters, the font has somehow been deleted or lost registration on the system. Follow the above steps to correct the problem.

Avoiding Font Problems:

If you start having problems with fonts, DDV recommends the use of Adobe Type Manager (ATM). This software is relatively inexpensive and has cured a number of font related problems at this site. Since starting to use ATM the only times that initial font registration problems have occurred here are when fonts failed to register properly when installed as part of a software installation (i.e.; the fonts were loaded by the application software, not through ATM).

ATM also cured interminable repainting of all on-screen icons and associated slow downs or hang-ups when the system already had a large number of fonts installed and Control Panel's font manager was used to install additional fonts.

DDV is not aware of anyone who has had font install problems while using ATM, but would appreciate hearing the circumstances surrounding any failures with its use.