

Sign Design with GuidSIGN 4.4 Using Clearview Fonts

Clearview is the new typeface being reviewed by FHWA for inclusion into the MUTCD either as a replacement or supplemental typeface to the Standard Highway Alphabets. FHWA is providing interim approval for requesting D.O.T.'s to use the positive contrast series of the Clearview Fonts for design.

Problems with Current Fonts

E Modified – Fat Stroke Width = Narrow Internal Spaces (especially on some letters)



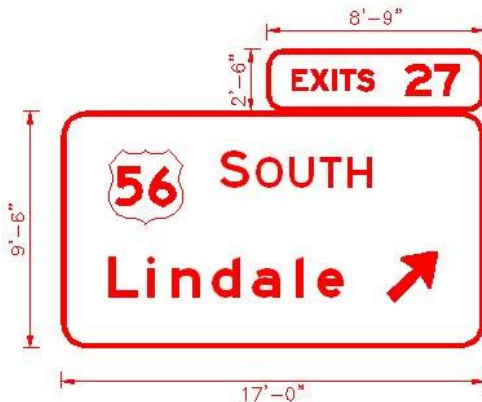
Overglow (halation) - Caused by greater brightness of letters vs. background causes letters to blur and internal spaces 'disappear'



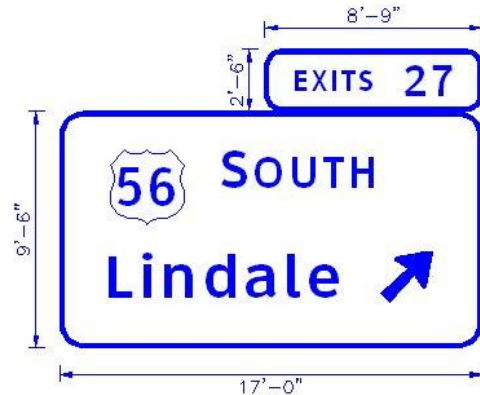
Clearview was designed for optimal legibility and has a different visual structure than the FHWA Standard Alphabets (Up to 16% increase in legibility over E Modified)

The Clearview lowercase is taller, interior shapes of letters are more open to allow clear definition of each letter

Letter spacing has been designed to accommodate the needs of older drivers when used with both regular and high brightness sheeting materials by reducing the effects of halation (or overglow)



FONT:
(1) FHWA Series Em2000EX
(2) FHWA Series E2000EX



FONT:
(1) ClearviewHwy-5-W-R
(2) ClearviewHwy-4-W

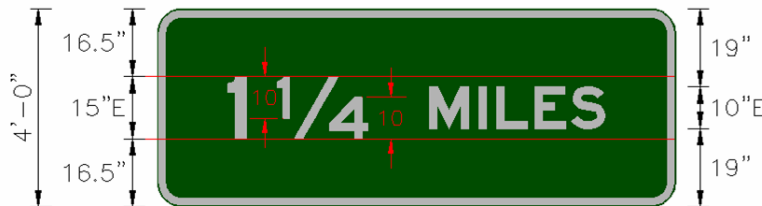
A GENERAL COMPARISON

SHS Standard Alphabet	Clearview "W" series
Series B	Clearview 1-W
Series C	Clearview 2-W
Series D	Clearview 3-W
Series E	Clearview 4-W
Series E- Modified	Clearview 5-W and Clearview 5-W-R
Series F	Clearview 6-W

Clearview 5-W-R should be used if a Clearview 5-W is too wide for the specific application of replacement of existing E Modified panels that need to fit the existing mount.

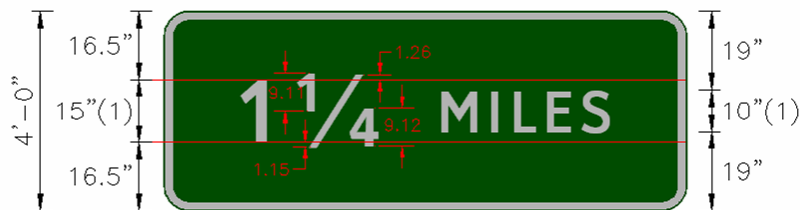
The Clearview Type System – Fraction Issue

- Series E and E Modified:
- Whole numeral and fraction are same height
- Fractional numeral is exactly 2/3 fraction height
- Simple, clean math for fractions



The Clearview Type System – Fraction Issue

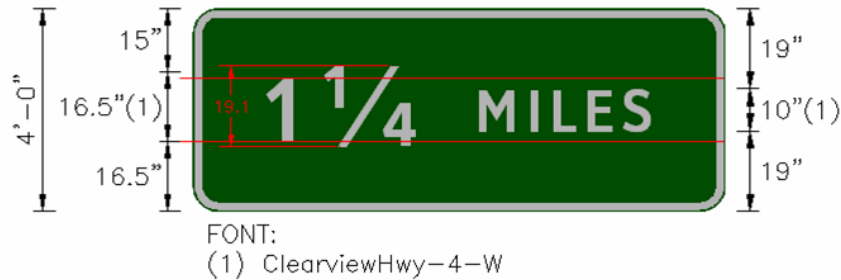
- Actual fraction vertical dimension is 109% of 'nominal' size
- Fractional numeral in Clearview is 8% smaller than standard size
- Violates MUTCD (Table 2E-4)
- Actual fraction dimension is "odd" size



FONT:
(1) ClearviewHwy-4-W

The Clearview Type System – Fraction Issue

- Need to increase fraction size to get MUTCD compliance
- 16.5" nominal fraction size yields 10" fractional numerals
- ...but now the fraction is 19.1" and is not lined up with string objects

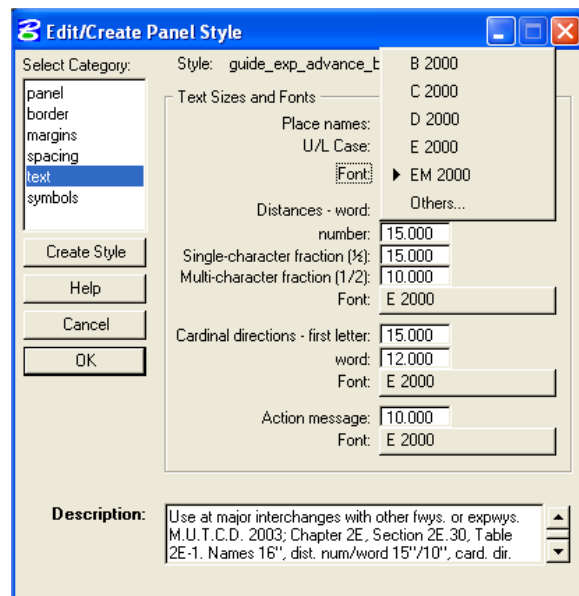


The Clearview Type System – Fractions Possible Solutions

- Defer Clearview font implementation until the issue is corrected by the font developer – FHWA has given 18 months as of June 2006 for the correction
- Use Clearview Fonts for messaging and continue using E and E Modified Fonts for Fractions – may be visually distracting having mixed letter sets
- Build your own fractions utilizing Clearview numerals and a custom slash cell – This requires calculations for placement and mixed reporting as the custom slash cell would be reported as a symbol rather than as text

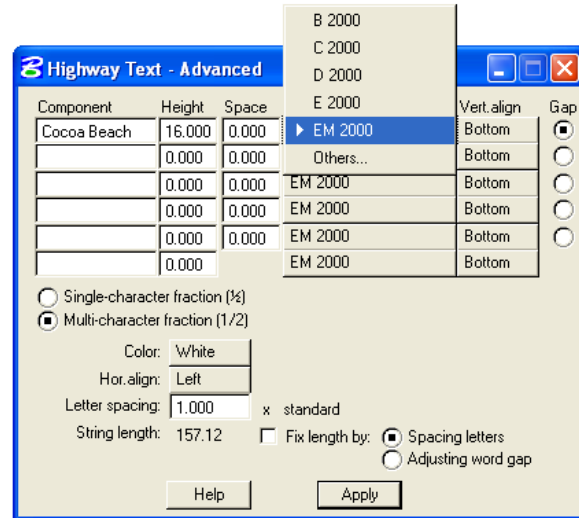
Customize Panel Style - Clearview

- Select the appropriate MUTCD or state designated panel style based on the signs location and use
- Edit/Create to create a new copy of the MUTCD panel style
- Text Category: Set the design fonts for text objects to be the appropriate Clearview Fonts by selecting **Others...** from the drop down list.
- Exit the Edit/Create Panel Style when changes have been complete
- Place a new panel and place objects as you would with any other GuidSIGN panel style



Panel Replacement - Clearview

- Select Edit Highway text
- Select a string object to edit
- Select the Advanced option of Edit Highway Text
- Font Category: From the drop down list select **Others...** and choose the appropriate Clearview Font
- Click Apply
- Repeat the steps above for remaining string objects



Summary

- 1. For New Sign Designs**
 - Create customized panel styles based on Clearview Fonts
- 2. For Existing Panel Replacement**
 - Use the Edit Highway – Advanced option to change strings to Clearview Fonts
 - Use Clearview 5-W-R to replace E Modified fonts if you do not wish the panel width to increase
- 3. Dimensioning**
 - Clearview Strings will dimensioned with a footnote reference
- 4. Fractions**
 - Determine your standard workaround until fixed