

FLH Standard Criteria Files

Section 12 –

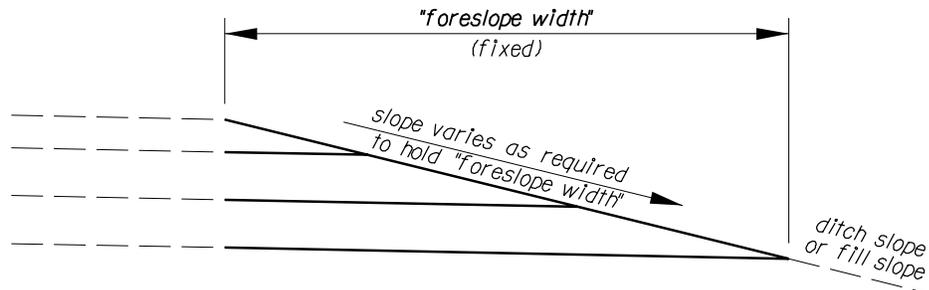
Roadway Foreslope Criteria Files

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Criteria File	Elements Drawn by Criteria
fh_fs1.x08	<p>Draws a <u>fixed width</u> roadway foreslope. Foreslope width is not changed for sections with guardrail. Extends “full length” undercut layers to daylight on foreslope.</p>
fh_fs2.x08	<p>Draws a <u>fixed slope</u> roadway foreslope. Foreslope slope is not changed for sections with guardrail. Extends all “full length” undercut layers to daylight on foreslope.</p>
fh_fs3.x08	<p>Draws a <u>fixed slope</u> roadway foreslope. Different foreslope slope is used for guardrail cross-sections vs. cross-sections without guardrail. Extends all “full length” undercut layers to daylight on foreslope.</p>
fh_fs5.x08	<p>Draws a <u>fixed width</u> roadway foreslope. Different foreslope width is used for guardrail cross-sections vs. cross-sections without guardrail. Extends all “full length” undercut layers to daylight on foreslope.</p>
fh_fs6.x08	<p>Draws a fixed width roadway foreslope. Different foreslope width is used for guardrail cross-sections vs. cross-sections without guardrail. Pavement layer is daylighted to the foreslope for cross-sections without guardrail. Pavement layer is terminated at the guardrail for cross-sections with guardrail. Must be used in combination with shoulder criteria file fh_sh6.x08.</p>

fh_fs1.x08

Draws a fixed width foreslope including base course and pavement layers. Foreslope width is the same with or without guardrail.



define variables that must be assigned values the input data file:

"foreslope width"

define_dgn variables that must be assigned values in the input data file:

None

Variables that must be defined in exceptions data file:

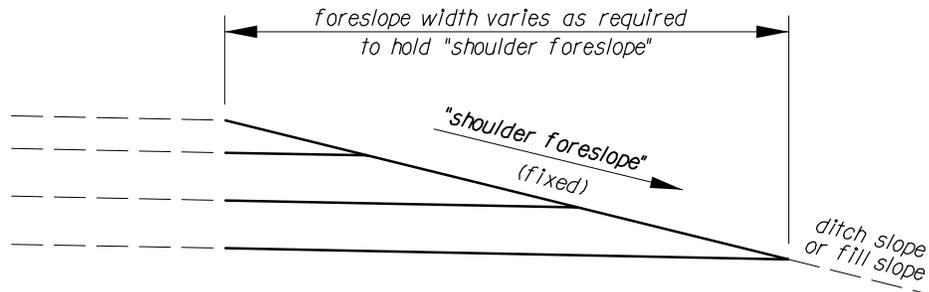
None

Notes for fh_fs1.x08:

1. The foreslope width and slope can't both be fixed -- one or the other has to vary to accommodate changes in superelevation. This criteria draws a fixed width foreslope; the foreslope slope varies as required to maintain structural section thickness.
2. If the foreslope changes (e.g., gets narrower) for cross-sections with guardrail sections, then use fh_fs5.x08 rather than this criteria file.
3. The "first full length layer" variable determines whether all the base course and pavement layers are carried out to daylight on the foreslope.
4. By default, no slope label is placed for the foreslope. If a slope label is needed, add a *define* "~place foreslope slope labels" 1 statement to the input file.
5. Text size for the optional slope label may be set with by adding a *define* "text size" nnn (where nnn is the desired text size) statement to the input file. By default the text size is set to 0.30. (The "text size" value applies to the slope labels created by all the criteria files.)

fh_fs2.x08

Draws a fixed slope foreslope including base course and pavement layers.
Foreslope slope is the same with or without guardrail.



define variables that must be assigned values in input data file:

"shoulder foreslope" (e.g., -1:4)

define_dgn variables that must be assigned values in the input data file:

None

Variables that must be defined in exceptions data file:

None

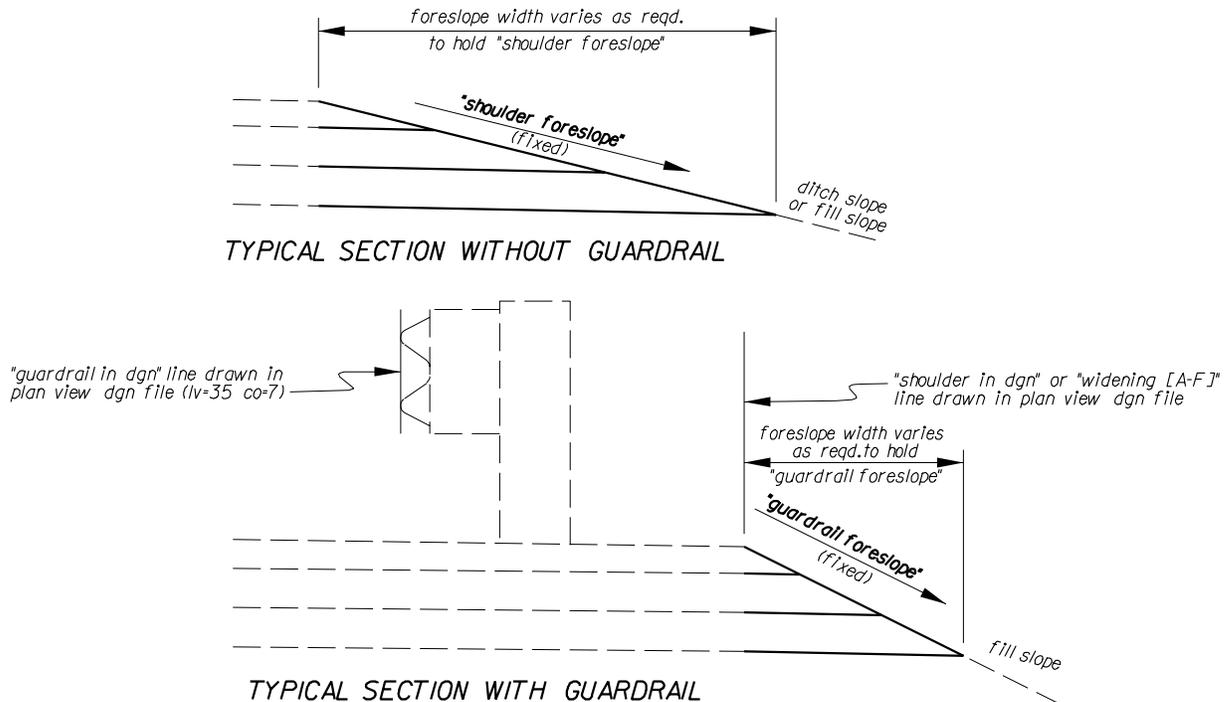
Notes for fh_fs2.x08:

1. The foreslope width and slope can't both be fixed -- one or the other has to vary to accommodate changes in superelevation. This criteria draws a fixed slope foreslope; the foreslope width varies as required to maintain structural section thickness.
2. If the foreslope slope changes (e.g., gets steeper) for guardrail sections, then use fh_fs3.x08 rather than this criteria file.
3. The "first full length layer" variable determines whether all the base course and pavement layers are carried out to daylight on the foreslope.
4. By default, no slope label is placed for the foreslope. If a slope label is needed, add a *define* "*~place foreslope slope labels*" 1 statement to the input file.
5. Text size for the optional slope label may be set with by adding a *define* "*text size*" nnn (where nnn is the desired text size) statement to the input file. By default the text size is set to 0.30. (The "text size" value applies to the slope labels created by all the criteria files.)

fh_fs3.x08

Draws a fixed slope foreslope including base course and pavement layers.

Foreslope for cross-sections with guardrail will have a different slope than cross-sections without guardrail.



define variables that must be assigned values in the input data file:

"shoulder foreslope" (e.g., -1:4)

"guardrail foreslope" (e.g., -1:2)

define_dgn variables that must be assigned values in the input data file:

"guardrail in dgn"

Variables that must be defined in the exceptions data file:

None

Notes for fh_fs3.x08:

1. The foreslope width and slope can't both be fixed -- one or the other has to vary to accommodate changes in superelevation. This criteria draws a fixed slope foreslope; the foreslope width varies as required to maintain structural section thickness.
2. If the "guardrail in dgn" line is found at the current station in the plan view dgn file, then "guardrail foreslope" is used to draw the foreslope. If "guardrail in dgn" line isn't found, then "shoulder foreslope" is used.

fh_fs3.x08

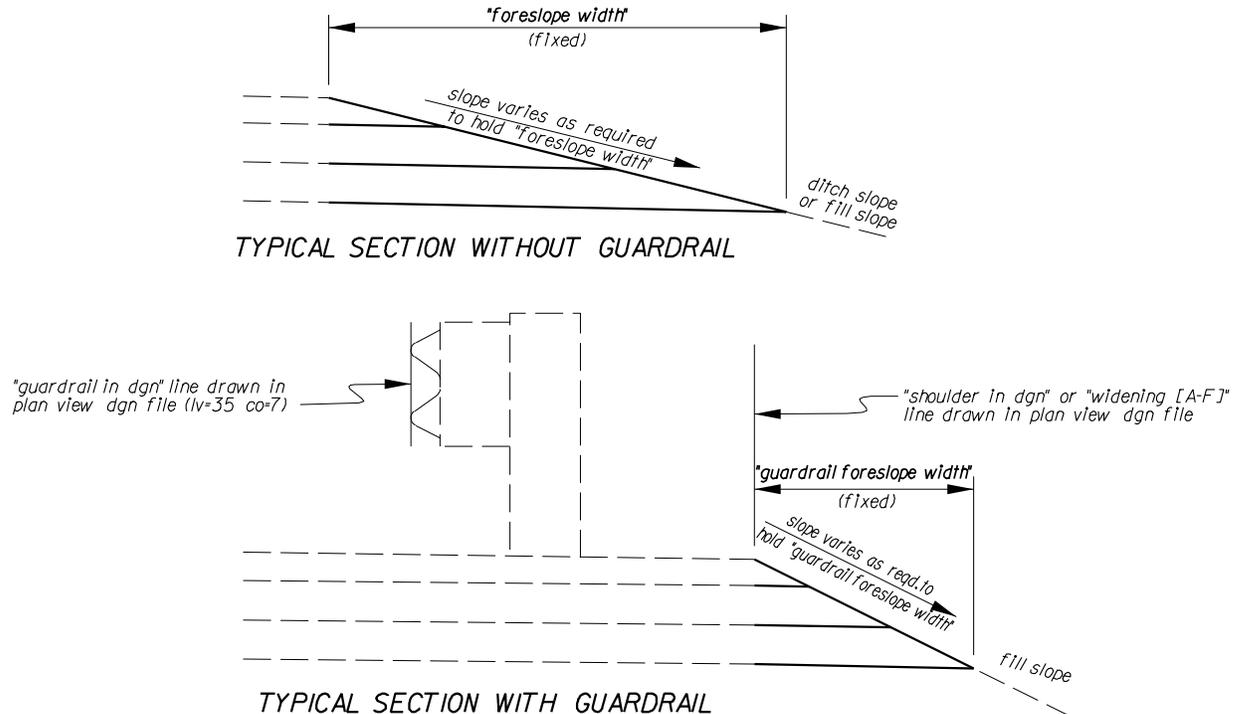
Notes for fh_fs3.x08 (continued):

3. If the foreslope slope doesn't change (e.g., get steeper) for cross-sections with guardrail, then use fh_fs2.x08 rather than this criteria file.
4. The "first full length layer" variable determines whether all the base course and pavement layers are carried out to daylight on the foreslope.
5. By default, no slope label is placed for the foreslope. If a slope label is needed, add a *define* "*~place foreslope slope labels*" 1 statement to the input file.
6. Text size for the optional slope label may be set with by adding a *define* "*text size*" *nnn* (where *nnn* is the desired text size) statement to the input file. By default the text size is set to 0.30. (The "text size" value applies to the slope labels created by all the criteria files.)

fh_fs5.x08

Draws a fixed width foreslope including base course and pavement layers.

Foreslope width for cross-sections with guardrail will be different from the foreslope width for cross-sections without guardrail.



define variables that must be assigned values in the input data file:

"foreslope width"
"guardrail foreslope width"

define_dgn variables that must be assigned values in the input data file:

"guardrail in dgn"

Variables that must be defined in the exceptions data file:

None

Notes for fh_fs5.x08:

1. The foreslope width and slope can't both be fixed -- one or the other has to vary to accommodate changes in superelevation. This criteria draws a fixed width foreslope; the foreslope slope varies as required to maintain structural section thickness.
2. If the "guardrail in dgn" line is found at the current station in the plan view dgn file, then "guardrail foreslope width" is used to draw the foreslope. If "guardrail in dgn" isn't found, then "foreslope width" is used.

fh_fs5.x08

Notes for fh_fs5.x08 (continued):

3. If the foreslope width doesn't change (e.g., get narrower) for cross-sections with guardrail sections, then use fh_fs1.x08 rather than this criteria.
4. The "first full length layer" variable determines whether all the base course and pavement layers are carried out to daylight on the foreslope.
5. By default, no slope label is placed for the foreslope. If a slope label is needed, add a *define* "*~place foreslope slope labels*" 1 statement to the input file.
6. Text size for the optional slope label may be set with by adding a *define* "*text size*" *nnn* (where *nnn* is the desired text size) statement to the input file. By default the text size is set to 0.30. (The "text size" value applies to the slope labels created by all the criteria files.)

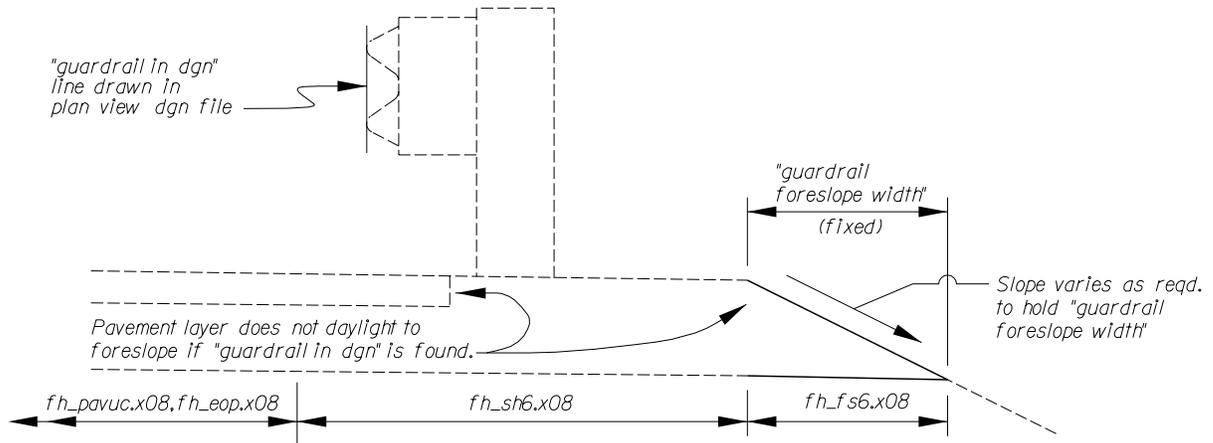
fh_fs6.x08

Draws a fixed width foreslope including base course and pavement layers. Foreslope width for cross-sections with guardrail will be different from the foreslope width for cross-sections without guardrail.

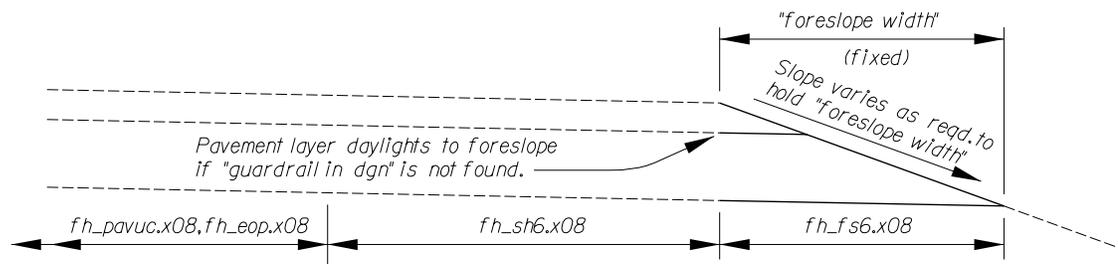
Pavement layer is daylighted to the foreslope for cross-sections without guardrail. Pavement layer is terminated at the guardrail for cross-sections with guardrail.

Must be used in combination with shoulder criteria file fh_sh6.x08.

Foreslope as drawn by fh_fs6.x08 if "guardrail in dgn" line is found:



Foreslope as drawn by fh_fh6.x08 if "guardrail in dgn" line is not found:



define variables that must be assigned values in the input data file:

- "foreslope width"
- "guardrail foreslope width"

define_dgn variables that must be assigned values in the input data file

- "guardrail in dgn"

Variables that must be defined in the exceptions data file:

None

fh_fs6.x08

Notes for fh_fs6.x08:

1. This criteria was written to address the situation where the designer wants to end the pavement layer at the inside face of the guardrail post for guardrail sections, but for non-guardrail sections wants the pavement to daylight to the foreslope. (This is a modified version of fh_fs5.x08)
2. This foreslope criteria must be used in combination with shoulder criteria file fh_sh6.x08. None of the other shoulder criteria files will work correctly with this foreslope criteria.
3. Unlike the all the other foreslope criteria files, this criteria file completely ignores the "first full length layer" variable.
4. The foreslope width and slope can't both be fixed -- one or the other has to vary to accommodate changes in superelevation. This criteria draws a fixed width foreslope; the foreslope slope varies as required to maintain structural section thickness.
5. If the "guardrail in dgn" line is found at the current station in the plan view dgn file, then "guardrail foreslope width" is used to draw the foreslope. If "guardrail in dgn" isn't found, then "foreslope width" is used.
6. By default, no slope label is placed for the foreslope. If a slope label is needed, add a *define* "*~place foreslope slope labels*" 1 statement to the input file.
7. Text size for the optional slope label may be set with by adding a *define* "*text size*" *nnn* (where *nnn* is the desired text size) statement to the input file. By default the text size is set to 0.30. (The "text size" value applies to the slope labels created by all the criteria files.)