

<p>Report Text</p> <p>12/23/2008 --> (ver. 44)</p> <p>always regardless of the distance was setting.</p> <p>Slope drawing</p> <p>graded from the</p> <p>wall</p> <p>subgrade</p> <p>CW9.</p> <p>different</p> <p>for the</p> <p>type</p>	<p>6. Fixed a problem with Rockery Wall Subgrade Template</p> <p>1. Fixed a bug in the Criteria Control file for Metric Divided highways calling the wrong version of the ERV file.</p> <p>2. Made an adjustment to the MSE wall backfill depth to provide positive drainage away from the wall regardless of the adhoc setting for Wall Backfill Depth.</p> <p>3. Fixed a bug in the MSE wall where an additional distance was incorrectly being added to the adhoc attribute setting.</p> <p>4. Fixed a bug on the MSE wall where the Wall Excavation value when placed steeper than a 1:1 slope was not drawing properly.</p> <p>5. Adjusted the Rockery wall design in the absence of a ditch such that the excavation line is now measured from the wall based on the adhoc Face Str Exc Width and not being drawn directly behind the back of the curb.</p> <p>6. Added a new search path of dgn elements for the GFMSE wall for the subgrade template report.</p> <p>7. Added subgrade search text for guardrail systems at hinge point.</p> <p>8. Added search text at the inside toe of the cut wall CW9.</p> <p>9. Added subgrade search text where the widening was a different cross slope than the pavement.</p> <p>10. Added subgrade search text and a unique search path for the subgrade lines of a sidewalk adjacent to a curb.</p> <p>11. Added search text to the edge of pavement when using a type 3 curb and offsetting the curb from the eop.</p>
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- a curb
12. Added search text to a cut bench width endpoint behind
in a cut situation.
- variables.x30 Criteria
13. Added an internal variable at the top of the
to adjust the side road matchline tie slope to better
handle
earthwork tolerance issues.
- 10/22/2007 --> 1. Fixed two bugs on the GTSR MSE Wall relating to the
wall
(ver. 43) excavation connecting to the pavement subgrade or
opposite
foreslope.
- 10/19/2007 --> 1. Added help documentation for
(ver. 42) a GTSR MSE Wall.
- 10/19/2007 --> 1. Added Minimum Detour Width Label ONLY for
(ver. 41) a GTSR MSE Wall.
- reinforcement
2. When applying a typical section, a sample
length CSV file will be copied to the working
directory
for the GTSR MSE Wall.
- 10/19/2007 --> 1. Added support for a GTSR MSE Wall.
(ver. 40) Note, the documentation is not yet included
as this is being provided for testing.
- 10/16/2007 --> 1. Added help for type 3 guard wall.
(ver. 39)
2. Fixed a bug where the type 3 guardwall
was not drawing adjacent to pavement.
- 10/15/2007 --> 1. Added support for type 3 guard wall.
(ver. 38) Note, the documentation is not yet included
as this is being provided for testing.
- 09/27/2007 --> 1. Added support for multi-tier rockery walls.
(ver. 37)
2. Revised the earthwork input file.
3. Revised the DDB files.
4. Revised the DGN Level Library.
- 09/18/2007 --> 1. Added support in the existing features typical section
(ver. 36) to label the edge of dirt roadways. This required a
new entry to be added to the DDB files as well as
Criteria changes.

09/18/2007 --> 1. Removed the tapering routine using text files.
(ver. 29 - 35)

2. Added foundation depth to retaining walls. This required new adhoc for the walls.
3. Fixed a problem with symbology on the Gabion Face wall with earthwork.
4. Added Minimum Detour Width option to the WFL Parapet Wall.
5. Fixed a problem with the MSE wall and Min. Detour Width option.
6. Fixed a problem with MSE wall where the wall excavation slope was being drawn twice.
7. Added the option for backfill depth in front of the retaining walls. No longer will this key off of the existing ground location. If the tie at existing ground is still desired, simply set the wall backfill depth to a large number.
8. Added option to show a face width on the MSE Wall.
9. Fixed a problem with the SMSE wall where the top reinforcement line was not being drawn.
10. Added a check on the CFL Parapet wall to test for embedment depth and setback width when phase II profile option is used. If either of these values is not met, a warning message will be shown.
11. Corrected two problems with the GFMSE wall regarding symbologies and earthwork calculations.
12. Revised the earthwork input file.
13. Revised the DDB files.
14. Revised the DGN Level Library.

06/15/2007 --> 1. Made changes to text description adhoc attributes on
(ver. 28) text in sections.

01/23/2007 --> 1. Modified the MSE wall to support the minimum detour
(ver. 27) width.

12/07/2006 --> 1. Modified the plot parameter symbologies for existing
(ver. 26) underground power and phone line labels.

11/30/2006 --> 1. The existing topsoil thickness override line was
(ver. 25) incorrectly adjusting the depth to the right side of
the

pavement when drawn between the two existing edges of pavement. This has been corrected.

- 11/06/2006 --> 1. Added third option to process by station range to allow the user to have no Pause at first station in the specified range.
(ver. 24)
- 10/27/2006 --> 1. The message indicating a slope exception used was incorrectly showing up when an approach road matchline was encountered.
- 10/27/2006 --> 1. The text "End Pro" was not being added to the end of the overlay profile input file when processing by a station range. This has been corrected.
(ver. 22)
- 10/24/2006 --> 1. The daylight slope label was incorrectly showing a 1:0 slope label in certain situations.
(ver. 21)
- 10/24/2006 --> 1. Aggregate shoulder widening cross slope (user defined), now uses two adhoc attributes to allow for tapering from one cross section to the next.
(ver. 20)
- 10/13/2006 --> 1. Added support for an existing gravel roadway in the existing features typical section. This can be used in conjunction with existing pavement as long as the gravel lines are out side of the pavement lines. They can also be used by them selves where no pavement is present. In any event it is required as with existing pavement, an even number of pairs of lines must exist.
or N"
2. A new Define Variable named "Process Station Range? Y has been added to the criteria. If the user sets this to "Y", then they will be prompted for a beginning and ending station and region to process cross sections between. Of course, matching pattern line symbologies within the specified station range must exist before processing the cross sections in this range. This required a change to the criteria control file. So you need to re-apply your typical section to any previous runs to have the full benefits of this application. In addition, this also

required a MVBA to be included. Pause.mvba has been included and needs to be added to the workspace.

send
just
their
processing.
of

3. When processing the criteria, the criteria will now a command to tun off D&C's Place Influence. This is in case the user forgets when they proceed to process cross sections and have left D&C opened while processing. Note however, it will not happen until after a couple of cross sections are processed.

10/02/2006 --> 1. Revised the symbologies of the type 3 curb both on the surface as well as the top of pavement under the curb and behind the curb. All elements can now be unique symbologies. This was done to address issues with earthwork as well as clearing and seeding reports.

9/28/2006 --> 1. Added a new wall entitled SMSE wall for CFL.
2. Minor bug fixes for the CFL Parapet Wall, Soil Nail Wall,
as
and Cut Wall. This required a new set of DDBs as well as a new DGNLib and Earthwork Input File.

9/06/2006 --> 1. Added support to the CFL Parapet Wall to support a plan graphic line setting the boundary of the wall excavation
assure
detail
slope under the proposed pavement. This is used to a minimum traffic lane width. This is explained in the adhoc attribute section of the help files.

9/05/2006 --> 1. Added support for Phase 2 Soil Nail Retaining Walls. This required two additional adhoc attributes be added to the soil nail wall DDB entry for wall chain and profile.
phase
Both the profile and wall chain must be used for a 2 profile driven wall to be drawn.
2. Added support for Phase 2 Rockery Retaining Walls. This required two additional adhoc attributes be added to the rockery wall DDB entry for wall chain and profile.

phase 2

Both the profile and wall chain must be used for a profile driven wall to be drawn.

for
slope
was
it

3. Fixed a problem when entering rise:run slope entries the adhoc attributes for slope overrides where the slope was steeper than a 1:1 slope. In previous version it required the rise value always be the number 1. Now it does not matter what the rise value is as long as the slope is specified in a rise:run format. As a side note, an adhoc slope value can always be entered as a percent slope as well, but do not include the percent sign. For example to enter a 1:1 slope you can alternately enter 100 for a 100% or 1:1 slope.

note,
percent
For

addition

4. The documentation has been updated to reflect the addition of the phase 2 walls mentioned above.

9/01/2006 -->
(ver. 8)
to

1. Plan view override DGN elements are now implemented to allow the designer to use plan graphics to override certain redefinable variables. The following plan graphic override/taper lines are now supported:

- Shoulder Foreslope
- Ditch Foreslope
- Ditch Foreslope Height
- Flat Bottom Ditch Width
- Custom Slope
- Sub-excavation Depth
- Existing Pavement Thickness 1
- Existing Pavement Thickness 2
- Existing Topsoil Thickness

these
cross
08.08.xx.xx

The updated help files explain in great detail how these are to function. Note the ability to taper from one cross section to the next will not work until GEOPAK is implemented. Versions prior to this will simply override the redefinable variable using the beginning value.

lines.

2. The Design and Computation Manager was updated to accommodate the new requirements of the override lines. This included moving the plan view slopes category.

to
the

3. A new adhoc was introduced to the slope override lines to control the number of decimal places to be shown on slope labels.

tapering
to
supported

4. The help files now contain a section on the new method. In addition the adhoc section has been updated to show new adhocs and revised adhocs to currently entries.

"Case C"
paved

5. A new diagram was added to the help files showing embankment fill slope options behind curbs and or ditched.

- 8/26/2006 --> 1. CFL Parapet Wall Phase 2 profile design has been implemented. Requirements are the designer must change both the adhoc profile and chain name for the phase 2 design from the default value of "none" to chain and profile names stored in Coordinate Geometry.
- 8/25/2006 --> 1. Labels for the backslope and wall height were added for the soil nail wall.
for
tested
vertically to
Wall
wall
footing,
the
the
have
2. The minimum embedment depth test location was changed the CFL Parapet wall. The vertical distance is now from the bottom outside point of the footing the existing ground.
3. The English Typical Section table for the CFL Parapet wall was modified to use a 6'-0" Minimum Setback distance.
4. A problem was found and corrected with the CFL Parapet wall if the existing ground "flattened out" near the the largest possible template was being chosen for the wall.
5. The CFL Parapet Wall now has two new adhoc to control front and back excavation slopes independently.
6. The CFL Parapet Wall has a new vertical line added at back of the footing for earthwork purposes.
7. The CFL Parapet Wall now supports a new adhoc for wall backfill depth for the front side of the wall.
8. Portions of the CFL Parapet wall line work symbology been modified for earthwork purposes.
9. CFL Parapet Wall height and setback distance are now labeled on the cross sections as they are drawn.
10. Rockery Wall Height is now labeled.

8/23/2006 -->
(ver. 5)
table.

1. The embankment fill slope behind proposed curbs and or paved ditches will now recognize the fill slopes

To activate this option, the adhoc attribute entitled Embankment Fill Slope must be changed from a rise:run slope value to the letters ST (slope table).

Example of Slope Specification -> -1:2

Example of Slopes Table -> ST

embankment

The

to

if

existing

of

ground

does

will

will

existing

yes

setting

will

2. A new adhoc attribute has been added for the bench width behind a proposed curb and or paved ditch.

adhoc attribute entitled "Force Bench Width" is used

force the complete width of the Embankment Bench Width

set to Y (yes). If the top of the curb is above

ground, setting this to yes will force the full width

the bench even if the bench crosses the existing

line. If this is set to yes and the embankment bench

goes under ground, the ditch foreslope and ditch width

automatically be forced to a a zero distance. This

result in the ditch backslope connecting to the

ground using the cut slopes table. If this is set to

but the entire bench is still above ground, the

will then have no effect and the tie to ground process

proceed as supported in previous versions.

set to

message

3. A bug was fixed where the ditch foreslope height was zero height. An incorrect slope label and warning were being drawn.

set.

only be

4. Updates have been made to the MicroStation Project Configuration Files. Two new configurations have been

The variables control the levels the cross section and profile cells will be drawn on. This however will

supported in GEOPAK Suite 8.8.

5. Updates to several of the standards files have been

style
have all

included. The cell library, D&C, DGNLib, Custom Line
Resource file, Earthwork Input File and seed files
been updated and included in this release.

items 1

6. Reformatted this file for printing in landscape mode.
7. Revised the documentation to reflect the changes in
and 2 above.

8/18/2006 --> 1. Labeling of custom ditch slopes is no longer rounded.
The actual value of the adhoc attribute will be shown on
(ver. 4) the slope line.

drawn on 2. The distance text below the guardwall will now be
the level name X_Label_Auto_Labeler.

an 3. The documentation for the typical sections contained
curbs. error mis-naming one of the adhoc attributes for
This has been corrected.

left 4. The description for the redefinable variable named
corrected. _d_RtRecoverableSlopeDist incorrectly referred to the
side of the pavement. This description has been

been 5. MSE Walls were not closing correctly in the vertical
direction given certain design situations. This has
corrected.

base 6. If the MSE Wall plan graphic was not parallel to the
the line, the wall excavation line was not being drawn at
proper slope. This has been corrected.

to 7. If a switch back line was encountered and not parallel
incorrectly the baseline, the ditch or fill slope was being
effectuated. This has been corrected. However, the
correction will only work when using GEOPAK Suite Build
08.08.01.90 or later.

above 8. Daylight slopes were not working correctly when the
ditch projected ditch slope started below ground then went
ground and then back below ground again within the
daylight test width. This has been corrected.

of 9. The median documentation had some errors in the titles
the median types. This has been corrected.

10. Revised DDB files.

11. A new index file has been added and referenced in the MicroStation PCF file that will allow for Adhoc

Attribute

help during the drawing of the elements with D&C. In GEOPAK Suite 8.8 to be released in the near future, a question mark will now appear when using D&C to place elements containing adhoc attributes. Selecting the question mark will display a labeled cross section

view of

the element to be drawn.

- 1/19/2006 --> 1. Revised the Rehab Help file to remove surface thickness (ver. 3) used
- curb
- back of
- to
- the
- CFL
- existing
- the
- cell
1. Revised the Rehab Help file to remove surface thickness (ver. 3) used for new pavement typical section.
 2. Fixed an error in the documentation for the type 1 diagram. The curb height was incorrectly omitting the inclusion of the lip height.
 3. Fixed a problem with Gabion faced walls and the front excavation width measuring from the wrong location.
 4. Added profile grade report search text for the top gabion faced wall.
 5. Added support in the existing features typical section label existing guardrail.
 6. Updated the earthwork input file to make sure all of soil type name lengths were meeting requirements for a application.
 7. Updated the DDB files to be able to search for guardrails.
 8. Updated the seed files to now also look for cells in new cell library used by the criteria.
 9. Updated the cell library. Now the criteria uses a new library file named FLH_Criteria.cel.
 10. Updated the level library to now include placement symbology for the existing guardrails.
 11. Included a seed earthwork run for users that will now allow earthwork to be ran using Project Manager. Information on this can be found here...

<http://www.wfl.fha.dot.gov/geopak/idiot2004/earth.htm#run>

12. Modified the cut and fill slope tables to match the defaults used in the X10 criteria.
13. Modified the PCF project Configuration Files to include

the new cell library.

1/05/2006 --> 1. Made some additions to the help files. Added in HTTP
(ver. 2) links for tapering and setting up of a project. In
addition fixed some spelling errors.

1/04/2006 --> 1. Fixed a problem where the tapering of ditches was
causing a divide by zero error
(ver. 1)

cells
will be
a
of

2. Added a "Define" variable to adjust the scale of the
plotted by the criteria. This was done because CFL
using two seed files with different working units for
short time of transition.

3. Modified the phase 2 MSE wall to allow for the varying
the wall foreslope thus providing all lifts a full
thickness including the top lift.

4. Updated the GPK Merge VBA application to fix an error
problem.

phase 2
are

5. Changed the way phase two walls are designed. The
wall designs now will use a chain and profile which
adhocs on the wall line.

to
the

6. Modified the documentation to reflect the new approach
the phase 2 wall design. Note there are now links in
help file which will give detailed phase 2 design
assistance.

for

7. Corrected a documentation error on the set back tables
the Fill and Parapet Walls.

8. Added text labels to the phase 2 walls.