

Konfiguration: Datei-Version- 10.11.00

#== 01 == Definition der zu verwendenden Einheiten – Nicht Editieren

Unit Definition - DO NOT CHANGE

The _Civil Default Standards - Imperial organization standards will use Imperial units and

all other organization standards will use Metric units automatically with no changes

required in this file.

%if \$(CIVIL_ORGANIZATION_NAME) == "_Civil Default Standards - Imperial"

UNITS = Imperial

%else

UNITS = Metric

%endif

#=====

#== 02 == Datei - Lokalisierungsname - Nicht Editieren

File Localization Naming - DO NOT CHANGE

CIVIL_FILENAME defines a variable text string that makes file names in the

workspace more meaningful by including a unit or localization name.

For example, the delivered design seed file is named

Seed2D - Metric Design.dgn where "Metric" is the variable text.

In a localized workspace a seed file could be named

Seed2D - DACH Design.dgn where "DACH" is the variable text.

If the CIVIL_LOCALIZATION_NAME variable is defined in the workspace cfg file,

the text defined by that variable is used.

Otherwise the text defined by the UNITS variable is used.

%if defined (CIVIL_LOCALIZATION_NAME)

CIVIL_FILENAME = \$(CIVIL_LOCALIZATION_NAME)

%else

CIVIL_FILENAME = DACH

%endif

#=====

#== 03 == Ordnerablage Definition - Nicht Editieren

Folder Location Definition - DO NOT CHANGE

The CIVIL_ORGANIZATION_STANDARDS variable defines where the Organization Standards

are located. These can be located on a local computer or a shared network drive.

To define these on a network drive, edit the WorkspaceSetup.cfg file and change

the CIVIL_ORGANIZATION_ROOT variable. NO changes are needed in this file.

CIVIL_ORGANIZATION_STANDARDS = \$(CIVIL_ORGANIZATION_ROOT)\$(CIVIL_ORGANIZATION_NAME)/

#=====

#== 04 == CAD - Allgemein

04.1==== Allgemeine Einstellungen für OpenXX

General OpenSite/OpenRoads/OpenRail Settings

Rollen einführen: Sie können Rollen für bestimmte Fachrichtungen einrichten.

Location of Graphical Filters

CIVIL_CIVILTMDGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Graphical Filters/*.dgnlib

Location of Civil Cells

CIVIL_CIVILCELLDGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Civil Cells/*.dgnlib

Location of Design Standards

CIVIL_DESIGNSTANDARDSDGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Design Standards/*.dgnlib

Location of Civil AccuDraw (not AccuDraw) settings and favorites

MS_ACCUDRAWKEYS = \$_USTN_HOMEPREFS)

Location of Superelevation rule files

CIVIL_SUPERELEVATION_RULES_DIRECTORY = \$(CIVIL_ORGANIZATION_STANDARDS)Superelevation/

Default Superelevation rule file

CIVIL_SUPERELEVATION_RULE_FILE = \$(CIVIL_SUPERELEVATION_RULES_DIRECTORY)SN640120 (CH).xml

CIVIL_SIGHTVISIBILITY_SETTINGS_DIRECTORY = \$(CIVIL_ORGANIZATION_STANDARDS)Sight Visibility/ # Location of Site Visibility settings file

#=====

04.2==== # Allgemeine CAD- Umgebung, Microstation- Einstellungen

General CAD Environment (MicroStation) Settings

MS_BACKUP = \$_DGNDIR) # Directory for backup files

MS_BUMP < \$(CIVIL_ORGANIZATION_STANDARDS)materials/bump/ # Location of bump maps

MS_CELL < \$(CIVIL_ORGANIZATION_STANDARDS)cell/ # Location of Cell Libraries

MS_CELLLIST < \$(CIVIL_ORGANIZATION_STANDARDS)cell/*.cel # Cell Libraries to be searched

MS_COLORBOOK_LIBRARIES < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Color Books/*.dgnlib # Location of for Color Books

MS_CUSTOMSCALEDEF = \$(CIVIL_ORGANIZATION_STANDARDS)Scales/scales_metric.def # Scale Definitions used for Annotation Scales

MS_CUSTOMSHEETSIZEDEF = \$(CIVIL_ORGANIZATION_STANDARDS)Scales/sheetsizes.def # Sheet Size Definitions used for Sheet Sizes

MS_CUSTOMUNITDEF = \$(CIVIL_ORGANIZATION_STANDARDS)Scales/units.def # Units Definitions used for Custom Units

MS_DGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Display Styles/*.dgnlib # Location of Display Styles

MS_DGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Line Styles/*.dgnlib # Location of Line Styles

MS_DGNTXTEDITORFAVORITESYMBOLS = \$(CIVIL_ORGANIZATION_STANDARDS)fonts/FavoriteSymbols.xml # Location and name of text favorites symbols

MS_FONTPATH > \$(CIVIL_ORGANIZATION_STANDARDS)fonts/ # Location of MicroStation fonts

MS_GUIDGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/GUI/*.dgnlib # Location of GUI Customization seeds

MS_MATERIAL < \$(CIVIL_ORGANIZATION_STANDARDS)materials/ # Location of material pallets

MS_PATTERN < \$(CIVIL_ORGANIZATION_STANDARDS)materials/pattern/ # Location of pattern maps

MS_PENTABLE = \$(CIVIL_ORGANIZATION_STANDARDS)Pen Tables/ # Default location for pen tables.

MS_REPORT_OUTPUT = \$_DGNDIR) # Default output directory where MicroStation

report (not OpenRoads/OpenRail) results will be exported.

MS_VIEWAUTORESIZE = 1 # If set to 1, the view windows are resized proportionally when the

main window is resized or when the dialogs are docked or undocked.

_USTN_DISPLAYALLCFGVARS = 1 # If set to 1, display all hidden variables.

#MS_FULLPATHINTITLEBAR = 1 # If set to 1, show the full file name path in the title bar.

#MS_CURSORPROMPT = 1 # If set to 1, show the prompt field on the cursor.

#=====

04.3==== # Voreinstellungen

"Preferences files"

#original:_USTN_PREFNAMEBASE = \$_USTN_HOMEPREFS)\$_USTN_PRODUCT_SHORTNAME)\$_CIVIL_FILENAME)

_USTN_USERNAME	= \$_USTN_PRODUCT_SHORTNAME)_\$(CIVIL_FILENAME)
_USTN_PREF	= \$(CIVIL_ORGANIZATION_STANDARDS)Preference Seeds\
_USTN_PREFNAMEBASE	= \$_USTN_PREF)\$_USTN_PRODUCT_SHORTNAME)_\$(CIVIL_FILENAME)
MS_DOCKINGPREF	= \$_USTN_PREFNAMEBASE).docking.xml
MS_FKEYMNU	= \$_USTN_PREFNAMEBASE).funckey.mnu
MS_GEOCOORDINATE_FAVORITESFILES	= \$(CIVIL_ORGANIZATION_STANDARDS)Preference Seeds\GeoCoordFavorites.xml
MS_GROUPPANELPREF	= \$_USTN_PREFNAMEBASE).GroupPanels.xml
MS_RIBBONPREFS	= \$_USTN_PREFNAMEBASE).RibbonState.xml
MS_SAVEMENU	= \$_USTN_PREFNAMEBASE).Attached.men
MS_USERPREF	= \$_USTN_PREFNAMEBASE).upf
#=====	

#== 05 == # Seed-Dateien

Seed files (Additional Seed files defined in the Subsurface Utilities section)

```
MS_SEEDFILES = $(CIVIL_ORGANIZATION_STANDARDS)Seed/

%if $(_ENGINE_NAME) == "OpenRailDesigner" || $(_ENGINE_NAME) == "OpenRailOverheadLineDesigner"
MS_DESIGNSEED = Seed2D - $(CIVIL_FILENAME) Rail Design.dgn
MS_DESIGNMODELSEED = Seed2D - $(CIVIL_FILENAME) Rail Design.dgn
MS_DESIGNMODELSEEDNAME = Default
%elif $(_ENGINE_NAME) == "OpenSiteDesigner"
MS_DESIGNSEED = Seed2D - $(CIVIL_FILENAME) Site Design.dgn
MS_DESIGNMODELSEED = Seed2D - $(CIVIL_FILENAME) Site Design.dgn
MS_DESIGNMODELSEEDNAME = Default
%else
MS_DESIGNSEED = Seed2D - $(CIVIL_FILENAME) Design.dgn
MS_DESIGNMODELSEED = Seed2D - $(CIVIL_FILENAME) Design.dgn
MS_DESIGNMODELSEEDNAME = Default
%endif

MS_DRAWINGMODELSEED = $(CIVIL_ORGANIZATION_STANDARDS)Seed/Sheets/Seed2D - $(CIVIL_FILENAME) Plan.dgn
MS_DRAWINGMODELSEEDNAME = Seed2D - $(CIVIL_FILENAME) PLAN
MS_SHEETMODELSEED = $(CIVIL_ORGANIZATION_STANDARDS)Seed/Sheets/Seed2D - $(CIVIL_FILENAME) Blatt.dgn
MS_SHEETMODELSEEDNAME = Seed2D - $(CIVIL_FILENAME) Blatt

#Die nachfolgenden Konfigurationsvariablen stammen aus der Metric.cfg
#Bei der Erstellung von neuen Plan-/LS-/QP-Vorlagen wird zuerst
#Drawing=Plan ausgewählt (grau), danach wird Sheet=Blatt ausgewählt (weiß, mit Blattgröße)
#MS_DRAWINGMODELSEED = $(CIVIL_ORGANIZATION_STANDARDS)Seed/Sheets/Seed2D - $(UNITS) Drawing.dgn
#MS_DRAWINGMODELSEEDNAME = 2D $(UNITS) Drawing
#MS_SHEETMODELSEED = $(CIVIL_ORGANIZATION_STANDARDS)Seed/Sheets/Seed2D - $(UNITS) Sheet.dgn
#MS_SHEETMODELSEEDNAME = 2D $(UNITS) Sheet

MS_CELL_SEEDFILE = Seed2D - $(CIVIL_FILENAME) Design.dgn
#=====
```

05.1==== # Pfade und Einstellungen für Referenzdateien

Reference File Paths and Settings

```
MS_REF_DEFAULTATTACHDIRECTORY = $(_DGNDIR)
MS_REF_DEFAULTSETTINGS = TrueScale=1,AttachMethod=Interactive,nestMode=live,NestDepth=0,SaveRelativePath=1
MS_RFDIR > $(_DGNDIR)
MS_RFDIR > $(CIVIL_ORGANIZATION_STANDARDS)Sheet Borders/
MS_REF_MASTERFILELAST_DESIGN = 1
MS_REF_NEWLEVELDISPLAY = 1
MS_REF_VISEDGE_ATTACH_STATE = CachedAutomatic #Einstellung damit z.B. Querprofile zusammengeführt werden können
#MS_DISALLOWFULLREFPATH = 1
```

05.2==== # Item Types

```
MS_ALLOWREADONLYITEMEDIT = TRUE
MS_DGNLIBLIST_ITEMTYPES = $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Item Types*.dgnlib
ITEMTYPE_LOOKUP = $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Item Types/Pay Item Lookup.xlsx
```

```
ITEMTYPE_LOOKUP > $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Item Types/Sign Lookup.xlsx
ITEMTYPE_LOOKUP > $(CIVIL_ORGANIZATION_STANDARDS)Asset Manager/Asset Management Lookup.xlsx
ITEMTYPE_PRIORITY_MAP_PATH = $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Item Types/Civil Item Type Priority.json
```

```
#=====
```

05.3==== # Upgrade- Einstellungen

Civil Model Upgrade Options

Two configuration variables control upgrading options.

When the CIVIL_UPGRADE_PROMPT_OFF variable is set equal to 1, it will hide

the upgrade prompt and automatically upgrade files with no prompting.

#

CIVIL_OPEN_OLD_READONLY on its own will do nothing. It requires the

CIVIL_UPGRADE_PROMPT_OFF configuration variable also be set. However, when

both variables are set, the upgrade prompt will be hidden and the file

will be opened as read-only.

```
#CIVIL_UPGRADE_PROMPT_OFF = 1
```

```
#CIVIL_OPEN_OLD_READONLY = 1
```

```
#=====
```

05.4==== # Visual Basic Einstellungen

Visual Basic Settings

```
MS_VBASEARCHDIRECTORIES > $(CIVIL_ORGANIZATION_STANDARDS)Macros/ # Location of visual basic applications.
```

Viewset utility which provides convenient view control options for civil design.

```
MS_VBAAUTOLOADPROJECTS > $(CIVIL_ORGANIZATION_STANDARDS)Macros/ViewSet # Load the Viewset utility.
```

```
VIEWSET_SETTINGS_FILE = $(CIVIL_ORGANIZATION_STANDARDS)Macros/ViewControlConfigurations.xml # Configuration for the Viewset utility.
```

Snappable Toggle utility which uses the Ctrl+F1 and Ctrl+F2 function keys to turn on or off the

specified levels and enable or disable the snappability of the particular elements. This is useful

when annotating the drawing models of cross sections or profiles where the grid lines may be in the way.

```
MS_VBAAUTOLOADPROJECTS > $(CIVIL_ORGANIZATION_STANDARDS)Macros/SnappableToggle # Load the Snappable Toggle utility
```

```
MS_VBAAUTOLOADPROJECTS > $(CIVIL_ORGANIZATION_STANDARDS)Macros/MyTools # Load the Snappable Toggle utility
```

```
CIVIL_SNAPPABLETOGGLE_LEVELS_FILE = $(CIVIL_ORGANIZATION_STANDARDS)Macros/SnappableToggle_Levels.txt # Configuration for the Snappable Toggle utility
```

```
#=====
```

#== 06 == # DACH-spezifisch

Koordinaten und Rasterdatei

MS_GEOCOORDINATE_FAVORITESFILES = \$(CIVIL_ORGANIZATION_STANDARDS)Preference Seeds\GeoCoordFavorites.xml

MS_RASTER_DEF_DIR > \$(CIVIL_ORGANIZATION_STANDARDS)XWMS/

_CIVIL_STANDARDS_IMPORTEXPOT = 1

#=====

06.1==== # DACH Berichtsdateien

##%if exists (\$(CIVIL_ORGANIZATION_STANDARDS)Reports/*.xsl)

#CIVIL_REPORTS_DIRECTORY = \$(CIVIL_ORGANIZATION_STANDARDS)Reports/

##%endif

#CIVIL_REPORTS_RESOURCES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/alt/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/_VGF/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Weichen/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/_bis_10-10_Metric/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Tools/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Zuordnungspruefung/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Vermessung/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Verkehrsweg_Querneig_Sicht/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Verkehrsweg_Bahn_Ueberhoehung/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Verkehrsweg/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Mengen_Volumina/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/LightRailManufacturing_de/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Gelaende/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Achse_Stationen/ # Location of Report XML Files. Custom reports will be shown

CIVIL_REPORTS_SUBDIRECTORIES < \$(CIVIL_ORGANIZATION_STANDARDS)Reports/Achse_Geom_Punkte/ # Location of Report XML Files. Custom reports will be shown

in addition to the default reports from the \Program Files\ folder.

CIVIL_DEFAULT_STATION_LOCK = TRUE # Station Lock - If set to TRUE then stations for various commands

are adjusted to stay at even values. For example, template drops

will adjust to be at even stations in the event of an equation

that could cause it to do otherwise. If not set or set to FALSE,

then the station values will be maintained at the specified increments.

#CIVIL_CIVILSETTINGS_READONLY = 1 # If set to 1, standards, preferences and features that come from a DGN Library

are persisted as Read-only. If variable is not Defined, items are persisted as Read-Write. If set to 1, items are persisted as Read-only.

%if exists (\$(_USTN_WORKSETSTANDARDS)Cell/) # Defines the location and name of cell library used by Component Center.

CIVIL_COMPONENTCENTER_DOWNLOADEDCELLSLIB = (\$(_USTN_WORKSETSTANDARDS)Cell/Downloaded Component Center Cells.cel

%else

CIVIL_COMPONENTCENTER_DOWNLOADEDCELLSLIB = \$(MS_DEF)/Downloaded Component Center Cells.cel

%endif

#=====

#== 07 == # Geländemodellierung

07.1==== # Geländemodellierungseinstellungen

Civil Terrain Settings

These variables define filtering when importing high density terrain data that
contains many points such as DWG Contour mapping. The filtering looks at 3 points.

If the distance between points 1 & 3 is less than the Filter Maxgap value, then

point 2 is evaluated to see if it is offset from a line connecting points 1 & 3

by less than the Filter Tolerance value. If it is then it is removed.

#

These variables are not enabled by default. They should only be enable when required,

on a project by project basis that has terrain data in DWG format.

CIVIL_DTM_LINestring_FILTER_TOLERANCE = 0.05

CIVIL_DTM_LINestring_FILTER_MAXGAP = 0.5

#=====

#== 08 == # Profile und Achsen

08.1==== # Standardwerte für beste Einpassung

Default Best Fit Settings

These variables define the best fit parameters that are used to calculate the

best fit profile when the 'Create 3D Automatically' option on the

Feature Definition Toggle bar is enabled.

These settings are NOT used by the 'Define Profile by Best Fit' geometry tool. That

tool has its own settings that are defined interactively through the graphical interface.

%if \$(Units) == "Metric"

CIVIL_DEFAULT_BEST_FIT_UPPER_ENVELOPE = 2

CIVIL_DEFAULT_BEST_FIT_LOWER_ENVELOPE = -.5

CIVIL_DEFAULT_BEST_FIT_CREST_LENGTH = 300

CIVIL_DEFAULT_BEST_FIT_SAG_LENGTH = 300

CIVIL_DEFAULT_BEST_FIT_MINIMUM_LENGTH = 50

%else

CIVIL_DEFAULT_BEST_FIT_UPPER_ENVELOPE = 5

CIVIL_DEFAULT_BEST_FIT_LOWER_ENVELOPE = -1

CIVIL_DEFAULT_BEST_FIT_CREST_LENGTH = 1000

CIVIL_DEFAULT_BEST_FIT_SAG_LENGTH = 1000

CIVIL_DEFAULT_BEST_FIT_MINIMUM_LENGTH = 150

%endif

#=====

08.2==== # Unterteilung in Vermessung und Verkehrswegemodellierung

Stroking Tolerance Settings for Survey and Corridor Modeling

These variables define how often to compute a point or template drop interval

along a tangent, profile, or curve. The Linear Stroking tolerance is the maximum

distance along a tangent. Extra points are added along profiles and curves based

on a chord offset from the profile or curve.

Refer to the Product Help for additional details.

#

The four variables that begin with CIVIL_SURVEY are optional.

If these variables are set, these values will be used for Survey Terrain Model only

creation overriding the default Civil variables set for Survey and Corridor Modeling.

Units are in master units (feet or meters)

#

#CIVIL_CIRCLE_MESH_STROKE_NUMBER =16

%if \$(Units) == "Metric"

CIVIL_DEFAULT_LINEAR_STROKING = 2.5

CIVIL_DEFAULT_PROFILE_STROKING = 0.02

CIVIL_DEFAULT_CURVE_STROKING = 0.02

CIVIL_SURVEY_STROKE_TOLERANCE_LINEAR = 30

CIVIL_SURVEY_STROKE_TOLERANCE_CURVE = 0.02

%else

CIVIL_DEFAULT_LINEAR_STROKING = 10.0

CIVIL_DEFAULT_PROFILE_STROKING = 0.07

CIVIL_DEFAULT_CURVE_STROKING = 0.07

```
# CIVIL_SURVEY_STROKE_TOLERANCE_LINEAR    = 100.0
# CIVIL_SURVEY_STROKE_TOLERANCE_CURVE     = 0.05
%endif
```

```
#=====
```

```
# 08.3==== # Beschriftungseinstellungen für Achskomponenten
```

```
# Civil Annotation Computed Prefix Override Names
```

```
CIVIL_USE_CUSTOM_POINT_LABELS = 1
```

```
#CIVIL_LABEL_END = BE
#CIVIL_LABEL_POLY = POLY
#CIVIL_LABEL_SCS = SCS
#CIVIL_LABEL_SRS = SRS
#CIVIL_LABEL_START = BA
#CIVIL_LABEL_VPI_PARABOLA = VPI_PARABOLA
```

```
CIVIL_LABEL_COGO = COGO
CIVIL_LABEL_CS = UE
CIVIL_LABEL_EQN = UST
CIVIL_LABEL_EQNAH = NUST
CIVIL_LABEL_EQNBK = VUST
CIVIL_LABEL_EVT = SP
CIVIL_LABEL_HPI = TS
CIVIL_LABEL_HPI_ARC = TS
CIVIL_LABEL_HPI_SPIRAL = TS
CIVIL_LABEL_PC = BA
CIVIL_LABEL_PCC = M
CIVIL_LABEL_POB = AP
CIVIL_LABEL_POC = Punkt auf Kurve
CIVIL_LABEL_POE = EP
CIVIL_LABEL_POT = TP
CIVIL_LABEL_PRC = WP
CIVIL_LABEL_PT = BE
CIVIL_LABEL_SC = UE
CIVIL_LABEL_ST = UA
CIVIL_LABEL_TP = Tangentenpunkte
CIVIL_LABEL_TS = UA
CIVIL_LABEL_VHP = VHo
CIVIL_LABEL_VLP = VTi
CIVIL_LABEL_VPC = AA
CIVIL_LABEL_VPI = NW
CIVIL_LABEL_VPI_ARC = VPWK
CIVIL_LABEL_VPT = AE
```

```
#Erlaeuterungen
```

```
#CC M- Kreisbogenmittelpunkt
```

```
#COGO Cogo-Punkt
```

```
#CS UE Kreisbogen zu Übergangsbogenpunkt
```

```
#EQN UST Umstationierung
```

```
#EQNAHD NUST Nächste Umstationierung
```

#EQNBK VUST Vorherige Umstationierung
#EVT SP Sonderpunkt
#PC BA Übergang Tangente-Kreisbogen
#PCC Punkt auf zusammengesetzter Kurve
#PI TS Tangentenschnittpunkt
#POB AP Anfangspunkt (AP)
#POC Punkt auf Kurve
#POE EP Endpunkt (EP)
#POS Punkt auf Übergangsbogen
#POT Tangentenpunkt
#POVC Punkt auf vertikaler Kurve
#POVT Vertikaler Tangentenpunkt
#PRC WP Wendekurve
#PT BE Tangentenpunkt (KT, Übergang Kreisbogen-Tangente)
#PVC AA Vertikaler Ausrundungsanfang
#PVCC Punkt auf vertikaler zusammengesetzter Kurve
#PVI NW Vertikaler Tangentenschnittpunkt
#PVRC Punkt auf vertikaler Wendekurve
#PVT AE Vertikales Ausrundungsende
#SC UE Übergangsbogen zu Kreisbogenpunkt
#SPI Schnittpunkt im Übergangsbogen
#SS Übergangsbogen zu Übergangsbogenpunkt
#ST UA Übergangsbogen zu Tangentenpunkt
#TS UA Tangente zu Übergangsbogenpunkt
#VEVT SP Gradientensonderpunkt
#VHIGH VHo Vertikaler Hochpunkt
#VLOW VTi Vertikaler Tiefpunkt
#=====

#== 09 == # Verkehrswegemodellierung

09.1==== # Regelprofil – Bibliotheken

Template Library

Regelprofil- Bibliothek

%if \$_ENGINE_NAME == "OpenSiteDesigner"

CIVIL_ROADWAY_TEMPLATE_LIBRARY = \$(CIVIL_ORGANIZATION_STANDARDS)Template Library/OpenSite Templates \$(CIVIL_FILENAME).itl

%elif \$_ENGINE_NAME == "OpenRoadsDesigner"

CIVIL_ROADWAY_TEMPLATE_LIBRARY = \$(CIVIL_ORGANIZATION_STANDARDS)Template Library/OpenRoads Templates \$(CIVIL_FILENAME).itl

%else

CIVIL_ROADWAY_TEMPLATE_LIBRARY = \$(CIVIL_ORGANIZATION_STANDARDS)Template Library/OpenRail Templates \$(CIVIL_FILENAME).itl

%endif

#=====

#== 10 == OpenSite Designer – Erdbau

10.1==== # CAD-Umgebung

Environment (MicroStation) OpenSite/OpenRoads/OpenRail Designer DGN Library Settings

MS_LEVEL_LIB_DIR Directory to look for when exporting levels or importing levels to/from a CSV, DGN, or DGNLib file.

MS_DGNLIBLIST DGN library files that define Levels, Line Styles, Text Styles, Dimension Styles, Multiline Styles,

Element Templates, Text Favorites, Table Styles, Report Definitions, Drawing Seeds, Drawing Boundaries,

Display Styles, Display Rules, Page Layouts, Saved Views and Item Types.

MS_DGNLIBLIST_LEVELS Specific DGN library files that define levels. Level definitions in all other DGN library files are ignored

MS_DGNLIBLIST_TEXTSTYLES Specific DGN library files that define text styles. Text styles definitions in all other DGN library files are ignored

MS_DGNLIBLIST_TEXTFAVORITES Specific DGN library files that define text favorites. Text favorites definitions in all other DGN library files are ignored

MS_DGNLIBLIST_DIMENSIONSTYLES Specific DGN library files that define dimension styles. Dimension styles definitions in all other DGN library files are ignored

#

CIVIL_CONTENTMANAGEMENTDGNLIBLIST Specific DGN library files that civil feature definitions.

CIVIL_PROJECTSETTINGSDGNLIBLIST Specific DGN library files that civil survey settings.

RAIL_SETTINGSDGNLIBLIST Specific DGN library files that civil rail settings.

#

MS_ALLOWREADONLYITEMEDIT When set to TRUE, makes item types from references within the same file editable. For example,

when

an item type is on a 3d element. Selecting the 2d element in the 2d model will show the item type on

the 3d element as read only if this variable is not set.

MS_DGNLIBLIST_ITEMTYPES Specific DGN library files that define item types. Item type definitions in all other DGN library files are ignored then

ITEMTYPE_LOOKUP The excel file(s) where lookup expressions AND pick lists are defined for item types. Multiple files can be defined.

ITEMTYPE_PICKLIST_EXCELPATH The excel file(s) where item type pick lists are defined IF they are in a different file than the lookup expressions.

If the pick lists and lookup expressions are in the same file, only use the ITEMTYPE_LOOKUP variable.

ITEMTYPE_PRIORITY_MAP_PATH <OPTIONAL> A single json file that defines behavior for resolving item type conflicts.

When this file is not defined the value from the FIRST element selected is used if there is a conflict. Using this file,

the behavior can be set to use the FIRST, LAST, or NONE for each command.

The following are common to OpenSite, OpenRoads, OpenRail, Overhead Line, or OpenBridge and are always loaded

#MS_LEVEL_LIB_DIR	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/
CIVIL_CONTENTMANAGEMENTDGNLIBLIST	> \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Features*.dgnlib
CIVIL_CONTENTMANAGEMENTDGNLIBLIST	> \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Labeler*.dgnlib
CIVIL_PROJECTSETTINGSDGNLIBLIST	> \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Survey Settings*.dgnlib
MS_DGNLIBLIST	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*.dgnlib
MS_DGNLIBLIST	> \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Sheet Seeds/Road/*.dgnlib
MS_DGNLIBLIST_DIMENSIONSTYLES	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Dimension Styles*.dgnlib
MS_DGNLIBLIST_DISPLAYSTYLES	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Display Styles/*Display Styles*.dgnlib
MS_DGNLIBLIST_DRAWINGSEEDS	= \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Sheet Seeds/*.dgnlib
MS_DGNLIBLIST_ELEMENTTEMPLATES	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Elem Temp*.dgnlib
MS_DGNLIBLIST_LEVELS	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Levels*.dgnlib
MS_DGNLIBLIST_TEXTFAVORITES	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Text Favorites*.dgnlib
MS_DGNLIBLIST_TEXTSTYLES	< \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/*Text Styles*.dgnlib

#=====

#== 11 == # OpenRoads Designer - Straßenbau

11.1==== # Sichtweiteneinstellungen

Civil Annotation Sight Distance Computation

%if \$(Units) == "Metric"

CIVIL_ANNOTATION_SIGHTDISTANCE_EYEHEIGHT = 1.08

CIVIL_ANNOTATION_SIGHTDISTANCE_OBJECTHEIGHT = 0.60

%else

CIVIL_ANNOTATION_SIGHTDISTANCE_EYEHEIGHT = 3.50

CIVIL_ANNOTATION_SIGHTDISTANCE_OBJECTHEIGHT = 2.00

%endif

#=====

11.2==== # Zusätzliche Einstellungen

Add the following if running OpenRoads, OpenRail, Overhead Line, or OpenBridge

%if \$(_ENGINE_NAME) == "OpenRoadsDesigner" || \$(_ENGINE_NAME) == "OpenRailDesigner" || \$(_ENGINE_NAME) == "OpenRailOverheadLineDesigner" || \$(_ENGINE_NAME) == "OpenBridgeModeler"

CIVIL_CONTENTMANAGEMENTDGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*Features*.dgnlib

MS_DGNLIBLIST < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*.dgnlib

MS_DGNLIBLIST_DIMENSIONSTYLES < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*Dimension Styles*.dgnlib

MS_DGNLIBLIST_DRAWINGSEEDS < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Sheet Seeds/Road/*.dgnlib

MS_DGNLIBLIST_ELEMENTTEMPLATES < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*Elem Temp*.dgnlib

MS_DGNLIBLIST_LEVELS < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*Levels*.dgnlib

MS_DGNLIBLIST_TEXTFAVORITES < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*Text Favorites*.dgnlib

MS_DGNLIBLIST_TEXTSTYLES < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Road/*Text Styles*.dgnlib

%endif

#=====

#== 12 == # OpenRail Designer – Bahnbau

12.1==== # Zusätzliche Einstellungen

Add the following if running OpenRail, Overhead Line, or OpenBridge

%if \$(_ENGINE_NAME) == "OpenRailDesigner" || \$(_ENGINE_NAME) == "OpenRailOverheadLineDesigner" || \$(_ENGINE_NAME) == "OpenBridgeModeler"

```
CIVIL_CONTENTMANAGEMENTDGNLIBLIST      > $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Features*.dgnlib

MS_DGNLIBLIST                          < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*.dgnlib
#MS_DGNLIBLIST                         > $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Sheet Seeds/Rail/*.dgnlib
MS_DGNLIBLIST_DIMENSIONSTYLES          < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Dimension Styles*.dgnlib
MS_DGNLIBLIST_DRAWINGSEEDS             < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Sheet Seeds/Rail/*.dgnlib
MS_DGNLIBLIST_ELEMENTTEMPLATES         < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Elem Temp*.dgnlib
MS_DGNLIBLIST_LEVELS                   < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Levels*.dgnlib
MS_DGNLIBLIST_TEXTFAVORITES            < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Text Favorites*.dgnlib
MS_DGNLIBLIST_TEXTSTYLES               < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Text Styles*.dgnlib

RAIL_SETTINGSDGNLIBLIST                < $(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail/*Rail Settings*.dgnlib
%endif
```

#=====

12.2==== # Bahndimensionen

Rail Dimensions

#=====

%if \$(Units) == "Metric"

CIVIL_RAIL_CENTER_CENTER_DISTANCE = 1.500

CIVIL_RAIL_INSIDE_INSIDE_DISTANCE = 1.435

%else

CIVIL_RAIL_CENTER_CENTER_DISTANCE = 4.921

CIVIL_RAIL_INSIDE_INSIDE_DISTANCE = 4.708

%endif

#=====

#== 13 == # Overheadline Designer – Fahrleitungsbau - Einstellungen

Overhead line Settings

Add the following if running Overhead Line

%if \$(_ENGINE_NAME) == "OpenRailOverheadLineDesigner"

MS_DGNLIBLIST_LEVELS < \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Rail Overhead Line/*Levels*.dgnlib

MS_CELLLIST > \$(CIVIL_ORGANIZATION_STANDARDS)cell/Rail Overhead Line/*.cel # Cell Libraries to be searched

%endif

This variable defines the standards file used by the Overhead Line tools.

OVERHEADLINE_DESIGNSTANDARDS_FILE = \$(CIVIL_ORGANIZATION_STANDARDS)Overheadline/\$(UNITS)OHLStandards.odr

OVERHEADLINE_SICAT_SETTINGS_DIR = \$(CIVIL_ORGANIZATION_STANDARDS)Overheadline/

OVERHEADLINE_SICAT_WORKSPACE_DIR = \$(CIVIL_ORGANIZATION_STANDARDS)Overheadline/

OVERHEADLINE_SICAT_WORKSET_DIR = \$(CIVIL_ORGANIZATION_STANDARDS)Overheadline/

#=====

#== 14 == # Zeichnungserstellung

14.1==== # Profil und Querneigungsskalierungswerte

Profile and Superelevation View Exaggeration Values

*_EXAGGERATION_VALUES defines a list of exaggeration values that are available in the View Attributes menu.

*_SET_DEFAULT_EXAGGERATION defines the default exaggeration value from the list

of available values used when a view is opened.

*_SKIP_DEFAULT_EXAGGERATION - If set to 1, the view is opened with a 1:1

exaggeration and the default exaggeration is ignored.

CIVIL_EXAGGERATION_VALUES = 1,2,5,10,20,50,100

CIVIL_SET_DEFAULT_EXAGGERATION = 10

_CIVIL_SKIP_DEFAULT_EXAGGERATION = 0

CIVIL_SUPER_EXAGGERATION_VALUES = 100,200,500,1000,2000,5000,10000

CIVIL_SET_SUPER_DEFAULT_EXAGGERATION = 5000

_CIVIL_SKIP_SUPER_DEFAULT_EXAGGERATION = 0

CIVIL_PROFILE_HORIZONTAL_GEOMETRY_INFO defines default behavior for displaying the

horizontal geometry information along in the profile view and superelevation views.

CIVIL_PROFILE_HORIZONTAL_GEOMETRY_HTTPS defines default behavior for displaying stations

at horizontal control points along the bottom of profile and superelevation views.

CIVIL_PROFILE_STATION_LOCK_INTERVAL defines the default interval for the

stationing displayed along the bottom of profile and superelevation views.

CIVIL_PROFILE_HORIZONTAL_GEOMETRY_INFO = Enabled

CIVIL_PROFILE_HORIZONTAL_GEOMETRY_HTTPS = Enabled

CIVIL_PROFILE_STATION_LOCK_INTERVAL = 50

#=====

14.2==== # Querprofileinstellungen

Cross Section Settings

#=====

CIVIL_CROSSSECTION_STACK_TOP_DOWN set to TRUE causes cross sections to be created

from the top to the bottom of the sheet. When set to FALSE or not defined cross

sections are created in the default method from the bottom to the top of the sheet.

CIVIL_CROSSSECTION_STACK_TOP_DOWN = FALSE

CIVIL_CROSSSECTION_REVERSE_STATION_ENABLE set to TRUE enables an option on the Create

Drawing dialog to create cross sections in a reverse station order. If this variable

is not defined or is defined as FALSE the option does not appear on the dialog.

When the Reverse Station Order option is selected on the Create Drawing dialog, the

highest station cross section will appear first and the lowest station will appear last.

CIVIL_CROSSSECTION_REVERSE_STATION_ENABLE = FALSE

Units are in Sheet master units(feet or meters)

NOTE: ALL 5 variables must be set for them to be used.

#

CIVIL_CROSSSECTION_RT_TO_LT_SPACING - If multiple cross sections can fit in the same

row moving from left to right, this variable defines the horizontal spacing between
the adjacent cross section boundaries.

CIVIL_CROSSSECTION_TOP_TO_BOT_SPACING - If multiple sections can fit in the same
column moving from bottom to top, this variable defines the vertical spacing between
the adjacent cross section boundaries.

CIVIL_CROSSSECTION_SIDE_MARGIN - Each cross section is tested in the horizontal direction
to determine if it will fit on the sheet and still allow this variable to be met. This
distance is measured from the right edge of the cross section clipping boundary to the
right edge of the sheet model edge. If the computed distance is less than this variable,
a new cross section sheet model will be generated for the next cross section.

CIVIL_CROSSSECTION_TOP_MARGIN - Defines the distance measured from the top edge of the
cross section clipping boundary to the top edge of the sheet model edge.
If CIVIL_CROSSSECTION_STACK_TOP_DOWN is TRUE, this variable defines the starting location
of the first cross section at the top of the sheet.
If CIVIL_CROSSSECTION_STACK_TOP_DOWN is FALSE, this variable defines the top margin.
If there is not sufficient space for a cross section to fit inside the margin, a new
column or sheet of cross sections is started.

CIVIL_CROSSSECTION_BOT_MARGIN - Defines the distance measured from the bottom edge of the
cross section clipping boundary to the bottom edge of the sheet model edge.
If CIVIL_CROSSSECTION_STACK_TOP_DOWN is FALSE, this variable defines the starting location
of the first cross section at the bottom of the sheet.
If CIVIL_CROSSSECTION_STACK_TOP_DOWN is TRUE, this variable defines the bottom margin.
If there is not sufficient space for a cross section to fit inside the margin, a new
column or sheet of cross sections is started.

%if \$(Units) == "Metric"

CIVIL_CROSSSECTION_RT_TO_LT_SPACING	= 0.050
CIVIL_CROSSSECTION_TOP_TO_BOT_SPACING	= 0.045
CIVIL_CROSSSECTION_SIDE_MARGIN	= 0.025
CIVIL_CROSSSECTION_TOP_MARGIN	= 0.035
CIVIL_CROSSSECTION_BOT_MARGIN	= 0.035

%else

CIVIL_CROSSSECTION_RT_TO_LT_SPACING	= 0.16667
CIVIL_CROSSSECTION_TOP_TO_BOT_SPACING	= 0.16667
CIVIL_CROSSSECTION_SIDE_MARGIN	= 0.08333
CIVIL_CROSSSECTION_TOP_MARGIN	= 0.12500
CIVIL_CROSSSECTION_BOT_MARGIN	= 0.12500

%endif

#=====

#== 15 == # Entwässerungs- und Versorgungsleitungen

Drainage and Utilities

SUDA_SEED_FILE defines a dgnlib file that contains the default hydraulic settings.

SUDA_SEED_MODEL defines the model to read from the dgnlib file. The information in this model

is copied to the active dgn when you first use Drainage and Utilities. The information in this

model normally includes hydraulics and hydrology settings, as well as feature definitions.

SUDA_SEED_FILE = \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Drainage and Utilities Features Annotations \$(CIVIL_FILENAME).dgnlib

SUDA_SEED_MODEL = Default

SUE_SEED_FILE defines a dgnlib file that contains the default subsurface utility settings.

SUE_SEED_MODEL defines the model to read from the dgnlib file. The information in this model

is copied to the active dgn when you first use a Drainage and Utilities. The information in this

model normally includes subsurface utilities settings, as well as feature definitions.

SUE_SEED_FILE = \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Drainage and Utilities Features Annotations \$(CIVIL_FILENAME).dgnlib

SUE_SEED_MODEL = Default

SUDA_USE_HAESTAD_CONDUIT tells hydraulic conduits to forget about the sizes that are stored

in the feature definition, and use the sizes that are stored in the Haestad conduit library.

SUDA_USE_HAESTAD_CONDUIT = 1

CIVIL_SUBSURFACE_FILTERS_DGNLIBLIST defines search path(s) for Subsurface Filter dgnlib

files. The filters can be used in the Extract Utilities from Graphics option.

CIVIL_SUBSURFACE_FILTERS_DGNLIBLIST > \$(CIVIL_ORGANIZATION_STANDARDS)Dgnlib/Feature Definitions/Drainage and Utilities Features Annotations \$(CIVIL_FILENAME).dgnlib

#=====

#== 16 == # Vermessungsdateien

Survey Files and Chains

CIVIL_SURVEY_FILES_FOLDER overrides the location where survey import and export tools

read definition files such as Leica FRT files and PrintfPC.exe files.

By default this variable is NOT used and the definition files are

read from the \Program Files\ folder.

CIVIL_SURVEY_USERTIW_FOLDER overrides the location where survey import tools

reads the TIW files. By default this variable is NOT used and

the TIW files are read from the \Program Files\ folder.

#CIVIL_SURVEY_FILES_FOLDER = Replace with Directory Path

CIVIL_SURVEY_USERTIW_FOLDER = \$(CIVIL_ORGANIZATION_STANDARDS)/TIW/

#=====