

MicroStation Expanded Level Resource Release Notes

Current

2011_05_04

- Corrected issue with bat files that start the 63 level environment that was causing an error when user had last been in metric environment.
- Added new item SH_GI_ScaleBar1to40.
- Added new cells to WAESIGN library. D11-1, R5-3, R7-801, W7-5, R8-3, R9-9, R9-10, R9-11(L), R9-11(R), R9-11A(L), R9-11A.
Renamed SH_GI_BridgePlanSheet to SH_PS_PSEBridgePlanSheet and cleaned up cell by removing extra elements.
- Updated the help file for the Place Leader command to reflect the latest version of the utility.
- Created a Print 63 level sheet help file for the expanded level environment to assist with plotting 63 level files.
- Modified North Arrow options so there is a North Arrow (Rotate to Active) and a North Arrow (Rotate to Reference) to clarify tools. Both options show in menu and in toolbox.
- Corrected appearance for RD_MK_JboxMarker and RD_MK_JboxMarkerNew.
- Label portion of the Sheet Utilities was modified to better ensure that the Clear Labels deletes only labels and no other elements.
- Added new item for TP_MM_MonitorWell[New]. New item is similar to Piezometer elements but blue and with an "M".
- Symbols used to mark PI's, PC's and PT's have been modified to be filled with the background color. This has the effect of masking the centerline itself under these symbols.
- Added new 2D point elements UT_WT_FireDeptConnPost (FDCP) and UT_WT_FireDeptConnWall (FDCW).
- Corrected DMSParser pen table to bring it back in synch with WSDOT.tbl.
- On WSDOT Menu, change major category name from "Right of Way" to "Right of Way Plans".
- Performed maintenance and clean up in WAESTATE.CEL.
- Corrected some cells that were on wrong level, deleted extra elements from cells and generally cleaned up.
- Fixed bug with Sheet Utility that was causing an error when using Spell Check.
- The InRoads seed file was edited to correct a problem with the XYZ tools in MicroStation.
- Added SH_GI_Cliplimits to the PSE Plans and Right of Way Plans trees on WSDOT menu.
- Retired PM_MN_MonumentonRecord and replaced MON and MONP cells with industry std per R/W and Survey Committee.
- New symbols are filled to make them stand out better.
- Added item PM_MN_MonumentCalcd (MONC). New symbol is similar to MON (per previous note), but open circle.
- Revised RW_PA_FenceCorner cell by reducing circle radius to 3.0 per R/W and Survey Committee
- Revised RW_PA_PropertyCorner by removing the text and filling the circle with background color similar to new centerline symbols.

Previous

2010_10_26

- Station Utilities, Page Layout and Zoom to Station tools now allow user to select alignments contained in reference files as well as active file.
- Page Layout utility now adds the station range to the description for the saved

views that it creates.

- Added new element for Section Cut symbols - the line/arrow combinations in plans that show where a corresponding section is detailed. This element uses the Bentley Place ArrowMarker tool which automates the creation of the symbology and text.
- Added new line break symbols SH_GI_LineBreakSm and SH_GI_LinebreakLg for when lines need to be broken due to space constraints on the sheet. These cells are placed on the active level so the level should be set to the line being broken before these symbols are selected.
- New level, cell, symbologies, surface and survey styles created for TR_TS_DataStationNew.
- New level, cell, symbologies, surface and survey styles created for TR_TS_DataStation.
- New levels, cells, symbologies and geometry styles created for UT_CM_CablePedestalNew and UT_CM_TelephonePedestalNew.
- New levels, cells, symbologies, surface and survey styles created for UT_CM_CablePedestal, UT_CM_TelephonePedestal and UT_CM_UnknownPedestal.
- Updated help file for WSDOT macro Text View Rotation.
- Corrected bug with Page Layout tool that was causing bad saved view for alignment going in a northwest direction.
- Corrected bug with Page Layout tool that was causing error if user attempted to make a new file after running utility.
- Corrected inconsistent data fields on Index Sheet.
- Modified Corps of Engineer (JARPA) sheet border to facilitate plotting. When plotting macro used sheets now cut properly into 8.5 x 11 sizes. Now supports batch printing also directly to 8.5 x 11.
- Corrected bug in WSDOT Place Leader tool that was causing the tool to activate in a non-useable state.
- Corrected Alignment Tic tool to check direction of alignment and reverse it if necessary to agree with stationing.
- Alignment Tic has been adjusted to put the right number of tics in for alignments that should have a tick at both the beginning and end of the alignment.
- Changed terminology throughout WSDOT environment from "Centerline" to "Alignment".
- Modified following macros to display message (rather than error out) when they are activated in a read-only file. Drainage Profiler, Match Line Sheet, Page Layout, Quad Maps, Station Offset Utilities, Datum Conversion.
- Print Sheet utility now removes its fence when finished printing.
- Station Offset Utilities macro now accepts stationing with a plus symbol in it.
- Station Offset Utility - made background color of Excel Comments field consistent with other fields in form.
- Station Offset Utility now places active points on the active level with the active attributes.
- WSDOT Place Leader command now places leaders on the text level with the corresponding color/weight/style.

2010_07_15

- New version of Create Project to comply with July 2010 Electronic Engineering Data Standards (EEDS) manual.
- Changed the symbology for RW_SC_BearingText level to be correct for the leader. This item now activates the Place Text Above command.
- WSDOT Menu search no longer displays any items as used in the obsolete category "Other Items".
- Descriptions for major category PM, child categories PM_PH and PM_MN were edited to clarify their usage.
- Corrected RGB values for color 17 in WSDOT color table to make it consistent.
- Added level and cell for RW_BD_MetesAndBoundsArrow to be used with R/W and Sundry Site plans.
- Created new levels for TR_WZ_WorkzoneTextCurrent and

TR_WZ_WorkzoneTextPrevious. Current and previous refer to workzone plan stages.

- Widened cell picker drop down in Station Offset Utility dialog.
- Typo corrected in SH_PR_RoadApproachTypeBNote.
- MicroStation XM plot configuration files were adjusted so that active points will no longer print.
- Datum Conversion utility now gives user a pull down list of datums that can be selected when specifying a file's datum.
- InRoads staking report utility now allows the use of the words "cut" and "fill" in the xml data.
- WSDOT Place Leader command now places leaders on the text level with the corresponding color/weight/style.
- Station Offset Utility now places active points on the active level with the active attributes.
- Station Offset Utility - made background color of Excel Comments field consistent with other fields in form.
- Station Offset Utilities macro now accepts stationing with a plus symbol in it.
- Print Sheet utility now removes its fence when finished printing.
- Modified following macros to display message (rather than error out) when they are activated in a read-only file. AutoTurn, Drainage Profiler, Match Line Sheet, Page Layout, Quad Maps, Station Offset Utilities, Datum Conversion.
- Changed terminology throughout WSDOT environment from "Centerline" to "Alignment".
- Alignment Tic has been adjusted to put the right number of tics in for alignments that should have a tick at both the beginning and end of the alignment.
- Corrected Alignment Tic tool to check direction of alignment and reverse it if necessary to agree with stationing.
- Correct bug in WSDOT Place Leader tool that was causing the tool to activate in a non-useable state.
- Modified Corps of Engineer (JARPA) sheet border to facilitate plotting. When plotting macro used sheets now cut properly into 8.5 x 11 sizes. Now supports batch printing also directly to 8.5 x 11.
- Corrected inconsistent data fields on Index Sheet
- Corrected bug with Page Layout tool that was causing error if user attempted to make a new file after running utility.
- Corrected bug with Page Layout tool that was causing bad saved view for alignment going in a northwest direction.
- Updated help file for WSDOT macro Text View Rotation.
- New levels, cells, symbologies, surface and survey styles created for UT_CM_CablePedestal, UT_CM_TelephonePedestal and UT_CM_UnknownPedestal.
- New levels, cells, symbologies and geometry styles created for UT_CM_CablePedestalNew and UT_CM_TelephonePedestalNew.
- New level, cell, symbologies, surface and survey styles created for TR_TS_DataStation.
- New level, cell, symbologies, surface and survey styles created for TR_TS_DataStationNew.
- Added new line break symbols SH_GI_LineBreakSm and SH_GI_LinebreakLg for when lines need to be broken due to space constraints on the sheet. These cells are placed on the active level so the level should be set to the line being broken before these symbols are selected.
- Added new element for Section Cut symbols - the line/arrow combinations in plans that show where a corresponding section is detailed. This element uses the Bentley Place ArrowMarker tool which automates the creation of the symbology and text.
- Page Layout utility now adds the station range and alignment name to the description for the saved views that it creates.
- Station Utilities, Page Layout and Zoom to Station tools now allow user to select alignments contained in reference files as well as active file.

Updated resources to reflect changes made for December 2009 update. Changes include resources for Yield Lines, resized catch basins and manholes, resources for Addendum Clouds and multiple corrections to items in Section 3 - Right of Way Plans. Follow See Also link for complete details.

- Modified organization of WSDOT menu to better group the items by product being created. Top level category is now Product and all levels to produce that product are underneath that category. Follow See Also link for complete details.
- Provided resources for new standards to designate addenda changes. Addendum Cloud should be used in place of Addendum shading except on tabulation sheets. NOTE: do not use Cloud Tool with Element Information window open or MicroStation will freeze.
- Corrected symbology for cells SH_RS_ConstructionNotesFlag and SH_RS_MaterialIDFlag - these were not using the correct symbols. Users should update these cells in their data sets.
- Adjusted color of Flying T logo to better match official WSDOT color by redefining the RGB values for color 161 in the WSDOT color table. Change will be seen in new files or existing files if the WSDOT.tbl color tables is re-attached.
- Slight modification to WSDOT sheet cells to better center WSDOT logo in space available for it. Updating sheet cells is optional for users.
- Corrected linestyle for RD_MK_LineReversibleLaneNew
- Deleted "Expires" text from the SH_PR_RWPLSStamp template cell.
- Corrected bug in Page Layout tool that was causing macro to work incorrectly if alignment was in a northwesterly direction.
- Fixed typo in WSDOT Toolbox. Toolbox was accessing wrong help file for Datum Conversion Utility.
- Adjust MicroStation configuration variables related to DGNLibs and the order that the system, project and user dgnlibs are loaded. Order of priority (lowest to highest) is WSDOT.dgnlib, user.dgnlib, project.dgnlib.
- Removed the Repair DGN help file - macro has been retired.
- Fixed bug where Copy Labels button was erroring out.
- Adjusted vba source code that parses _USTN_SITE to allow more flexibility to consultants on where to locate their WSDOT resources.
- Modified InRoads3D seed file so that view in new files is initiated with coordinates within State Plane and of a reasonable size.
- Fixed bug that was generating "library already loaded" message when Print Sheets was selected from the WSDOT Items toolbar.
- Corrected all vb references to ensure no cross references between 63 level and expanded level environments.
- Modified warning dialog to correct typos in Place Centerline tool.
- Added code to Print Sheets utility to set printer units to inches.
- Corrected bug in Global Cell Scale that caused un-trapped error in macro when initiated in file containing no cells.
- Adjusted Print Sheets macro to create saved views with sheets centered properly.
- Modified the Basemap documentation tool so that it works in files with no occupied levels - such as some container files.
- Corrected version of the cell tools included with WSDOT resources.

2009_09_16

- A new WSDOT toolbar was added to the MicroStation XM environment. The toolbar is called Element Information and it was created to present WSDOT users with the option of using the Element Information tool from XM or the one from 2004. To call up the toolbar select Tools=>Toolboxes and select the Element Information - Custom toolbox.
- The WSDOT Page Layout utility was enhanced for easier use. More information was added to explain the required entries. Entries will now be entered in inches.
- The WSDOT macro for placing drainage pipes and culverts was corrected so that the pipe diameter is correctly computed from the user input.

- The WSDOT macro for Saved View Recall was retired as it duplicates functionality of the Bentley Saved View dialog. The native Bentley command for saved view can be accessed by selecting Utilities=>Saved Views.
- WSDOT Zoom to Station command was enhanced to allow user to more easily choose centerline and eliminate the need for user to supply data point to get command to work.
- The WSDOT Station/Offset utility was enhanced to allow the user to select the centerline to reference and to allow easier input of stations.
- The Convert 63 to Expanded Level macro has been fixed to consistently maintain correct coordinates and translate a much greater percentage of 63 Level data. Remember that on STANDARD 63 level data is translated.
- WSDOT Construct Centerline dialog was edited for consistency in all the fields.
- All workstations were checked to ensure help file matches version of MicroStation installed.
- Pavement marking arrows were revised to be symbol cells rather than true-size cells. These symbols will plot at the same paper size on all plots. Size of cell is actual pavement marking size on 40 scale plots.
- Typos were corrected in SH_TI_ChanSpacing cells.
- The color for AL_HW_CLinePSETics was corrected to 18.
- The WSDOT print configuration files for PDF generation were modified to include more paper sizes.
- The Data Fields in the index sheet cell were adjusted to text size 0.07 to match WSDOT minimums.
- SH_RP_OriginalGround was modified to use Linestyle 3.
- The method used by the WSDOT sheet macros was adjusted so that testing for existing sheets is more accurate and reliable.

2009_05_27

- Names for the layout options in the WSDOT batch printing have been modified to be more informative.
New layouts specifically for R/W have been added as well as PDF layouts for letter size plots.
- WSDOT toolbar is now stored in the WSDOT.dgnlib file.
- Text placed with the Station/Offset utility will now honor the active level, color, style and weight.
- RD_BR_Gate and RD_BR_GateNew will now appear under the PSE Base category on the WSDOT menu.
- Form size for PDF full size printing has been corrected in the WSDOT batch print settings.
- Corrected characters that were displaying improperly - large asterisk, phase symbol, centerline symbol and many of the stacked fractions.
- WSDOT Batch Print settings will search only the active (not referenced) files for plot locations.
- Added macro WSDOT Toolbox=>File Utilities=>Add Levels for GuidSign which adds the levels GSBWFILL, GSCOLORFILL, GSDIMS and GSOUTLINE to the current design file.
- Added levels RD_MC_Autoturn Level 7 through RD_MC_Autoturn Level 10 for use with Autoturn.
- Inability to print R/W sheets in color was corrected in WSDT Batch Print settings.
- TP_NT_FlowArrow was made larger so that it prints correctly.
- Added dropdown to Print Sheets dialog that allows user to select which of the currently open views should be used by the macro.
- Created levels PH_RI_RasterLevel1 through PH_RI_RasterLevel6 to hold raster images and make it easier to control their display.
- Names for saved views created by the Page Layout macro are now prepended with the alignment name and sort

logically.

- RD_MK_OnlySymbolNew has been added to the resources. (Cell is for adding pavement marking "Only" to turn arrows.)
- Support for the placement and plotting of an 18x24 sized Record of Survey sheet has been added to the RW Place Sheet and RW Print Sheet resources. The border in the cell library is a simple rectangle, but a user defined border can be specified when placing or used after the fact.
- Culvert and Box Culvert commands now activate the WSDOT macro to place pipes/culverts.
- The Angle setting in the WSDOT preferences seed file has been changed to Azimuth.
- Added cells representing the regions (to be used on Vicinity maps) to SH_VM category. Cells are sized for 8.5 x 11 printing.
- New cells for the Profile border and the Plan/Profile border utilize a matrix of dots rather than linestyles to create the background grid.

2009_03_12

- Special Update:
The text sizes throughout the WSDOT resources have been adjusted to match the November 2008 Plans Preparation Manual. An option to use the pre Nov 2008 standards will be available on the WSDOT menu through June 2009. Please see: [Resource Update.pdf](#) and [Nov 08 PPM Text Conversion.pdf](#) for complete details and instructions.

2009_02_11

- The Station Offset Utility has been enhanced. It now allows the user to select the centerline from a dropdown list and other enhancement.
- An option for Rasterizing your plot has been added to the WSDOT Print utility. This option converts your vector data to a raster format. This can improve the print quality for some plots though it will take considerably longer. CAE recommends leaving this option unchecked in most cases.
- Created new level for AL_RW_CLinePrivateRoad.
- Added a new cell DR_ST_StructNoteFlagContinueLg that has space for more characters to be used when needed.
- Page Layout tool was enhanced to support all scales.
- Added a new level set for new structure/wall alignments. Levels start with AL_SA_CLineWallNew and contain resources for all ticks, symbols and text.
- RD_MK_LaneEdgeNew was corrected to RD_ED_LaneEdgeNew. The Update Level tool will migrate data located on the old level to the new level.
- Buttons on Place Leader dialog have been adjusted so that they should appear correctly.
- EngBWemf.plt and EngCemf.plt have been added (back) to the resources. These plot config files are a very good choice for creating files to be inserted into Word or Powerpoint documents.

2008_10_22

- A new group of symbols and levels has been added to the PSE Base category for Workzone Traffic items and the completion of Workzone Traffic Control Plans.
- RW_BD_HighwayRWBndryPSE was changed to existing status as all RW boundaries are existing in PSE.
- Plot macro has been modified to more accurately determine when a sheet has been placed in a given location and whether that location is available for a new sheet or labeling.

Modified the WSDOT Sheet Cells by adding the text "Plan Ref No" to the appropriate area of the title block.

- Hard coded text size in Match Line macro rather than using the active text size.
- Updated help file and made multiple enhancements to Datum Conversion Utility.
- Macros for Area utilities, navigator and SaveAsV7 were removed as they duplicate native Bentley commands.
- The Drainage Profile macro now uses the correct levels for structures and pipes, existing and new.
- XM Only. Added new pen table, WSDOT_OrderByMS.tbl. WSDOT_OrderByMS.tbl plots everything based on the priorities assigned in MicroStation.
- XM Only. Added raster plots to standard wsdot pen table, wsdot.tbl. Wsdot.tbl plots, from bottom to top, rasters then filled shapes, then halftones, then everything else.

2008_07_30

- New plot configuration files were added that are adjusted for MicroStation XM. The plot config files are now in two subfolders, XM and V8, under the c:\cae_rsc\ms_expandedlevels\pltdrv folder.
- Added a new form to the automated plotting macro.
- Adjusted WSDOT menu to allow Autoturn to work in XM. (Autoturn is only available on WSDOT workstations unless licensed separately.)
- A new version of the utility to convert MicroStation data from State Plane to Project datums and vice versa has been released. The new version records the datum information into MicroStation tags that will remain with the file for future reference.
- Per revised standards and requirements the expiration date was removed from the templates used to create the PE and PLS stamps.
- A bug that caused the Convert 63 to Expanded macro to occasionally fail has been corrected.
- A bug that prevented the city boundaries from viewing/merging correctly with the Merge Quads macro has been addressed.
- Added new data type RD_ED_SubgradeShoulderNew as a CAD level, named symbology, feature style, and geometry style (geometry style for XM only).
- Added new data type RD_MK_BikeSymbolArrow as MicroStation level, named symbology, survey features and surface features.
- Added new data type RD_MK_BikeSymbolArrow as MicroStation level, named symbology, surface features and geometry point style (geometry styles in XM only).
- Added new TR_IL_LightStdGeneric and TR_SG_LightStdGeneric and as MicroStation levels, named symbologies, survey features and surface features.
- Added new data types TR_IL_LightStdGenericNew and TR_SG_LightStdGenericNew and as MicroStation levels, named symbologies, surface features and geometry styles (geometry styles in XM only).
- Added new data type RD_ED_SawCutTextNew as a CAD level and named symbology.
- Formerly standard levels TR_IL_LuminaireOther and TR_IL_LuminaireOtherNew have been added to the list of levels to be updated to current standards by the standard WSDOT methods for updating levels.
- The cell associated with RD_MK_BikeSymbol and RD_MK_BikeSymbolNew new have been modified to

- more closely match the current standard plans.
- Changed weight for SH_DP_OriginalGroundProfile to 1.
- All PH_MN cells (monuments) have been reviewed and adjusted as necessary to ensure that all origins are exactly in the center of the cell.
- The weight for AL_RW_CLineRWNNonCntrlEX was adjusted to 4. This is the weight that this element should be placed at inside of the plan limits. Outside of plan limits, a weight of 2 should be used.
- Added and apostrophe character to Font 42.
- Corrected levels for all RD_MK_TrafficArrow signs. Some elements were on wrong levels.
- Adjusted raster attachment default settings in preference seed file to correct WSDOT units.
- Added Bentley cell libraries (back) to WSDOT environment's search path.
- All of the entries in the All Items category of the WSDOT menu have been reviewed to ensure that a valid MicroStation command is set when the item is picked.
- The utility for plotting R/W sheets has been modified. The option for tabloid to-scale plots has been removed and the plotting area/margins has been refined per R/W's directions.
- Fixed bug where Repair macro was not pausing for user to select OK or Cancel.
- The font used for the labels for Sheets 31-40 on all sheet utility dialogs was adjusted to match the font for Sheets 1-30.
- Options for batch printing have been expanded to accommodate full size printing as well as tabloid.
- Code has been added to the Place Sheet macros to ensure that the font used for the plot location labels is consistently Arial. It had been using the active font.
- New versions of the WSDOT plot drivers have been compiled for use with MicroStation XM that will optimize plotting in that environment.
- Deleted all unused levels from WAESState.cel library. Copies of the Changed Levels reports have been added to the MicroStation resources in the c:\cae_rsc\dgnlib folder. These reports define which existing levels were modified or deleted. There are no new entries in these files for this update.
- The linestyles for EV_EC_EmbankmentDitch and EV_EC_EcologyEmbankment have been adjusted so that the text automatically orients to read correctly from a N-S perspective.
- The reports on changed levels was edited to correct the date of the last set of changes to 4/2/08.
- The element marking the plot limits for the Corps Permit sheet was modified to Primary (from Construction).
- The description for the default models in the WSDOT seed files was edited to match the filename.

2008_04_02

- The levels and related resources for the Categories TR_IL, TR_SG and TR_TS have been reviewed and revamped. Many cells have been added and many others have been resized. The results have been reviewed and approved by HQ Traffic and various regional Traffic users and should provide a much cleaner product. Review revised CSM (Draft version in cae_rsc\data) for complete details.
- A new category - SH_TI - was created for Traffic Sheet Items.
- The roadway marking levels have been redone and reorganized. The new set of

levels contains

styles that are visually different for New and Existing and are organized in a simpler manner.

The Bridge and Tunnel levels and field codes have been consolidated into DNC levels. NOTE:

in general these linestyles are not to be used on PS&E contract plans and therefore do not show

up under PS&E Base on the WSDOT menu. You can access these linestyles under All Items on the menu.

- Resources have been added to facilitate Batch Printing in the WSDOT environment. Users can plot any combination of half-size or full size, color and monochrome to Windows devices. Can batch print to PDF files and have pre-defined settings to print InRoads cross sections.
- The level TP_MM_RRNamesText has been changed to TP_MM_RRText and is to be used for all text related to railroads.
- New cell SH_GI_Destination arrow for use on the limits of the vicinity map where the next destination beyond the limits of the plan is referenced. (i.e. To Olympia)
- The INRoads3D seed file was modified so that the depth lock will be off by default in newly created files.
- New cell TP_NT_FlowArrow to indicate the direction of the flow of a river or stream.
- The template used for creating a PE stamp now has the same number of cogs as the physical stamp. The expiration date is no longer included in the cell, and will be hand-written at the time the stamp is signed.
- New linestyles EV_EC_EcologyDitch and EV_EC_EcologyEmbankment have been added to the resources.
- A bug that caused the InRoads 8.5 and XM radial buttons to disappear from the Create Project dialog has been fixed.
- The Enter Data Fields embedded in the Index sheet have been cleaned up.
- Folder names referring to CADD in the WSDOT project directory structure have been renamed to CAD per new CAE standards.
- A new linestyle that has terminators on both ends is now available - AA_TM_DoubleTerminator.
- The WSDOT Station Utilities tool now remembers active parameter values and resets your session back to them when the tool is exited.
- The cell SH_GI_WSDOTLogo now has the correct color assigned.
- A new cell SH_GI_LegendTemplate has been added to the cell library. The SH_GI_UilitiesLegend cell has been removed.
- The WSDOT Drainage Profile tool now allows different elevations for the inlet and outlet of pipes.
- RD_MK_AerialSurvIncMarkFull and RD_MK_Aerial SurvIncMarkHalf were incorrect with the half and full cells switched. This has been corrected.
- The origin of the wetland flag cell has been adjusted to the correct spot.
- A typo was corrected in the SH_PR_LAccessEstablishNote cell.
- A bug causing the menu to abort when placing Cline PSE Station Equation cell has been corrected.
- The entry for Addendum shading has been removed from the WSDOT menu. The tools to place addendum shading are available from the toolbox.
- Several linestyles related to erosion control have been cleaned up to remove gaps and provide a better appearance. Linestyles are EV_EC_CompostFillerSockNew, EV_EC_SandbagorSackNew and EV_EC_WattleNew

- Corrected zip file so that the Common folder unzips to the correct location. Was unzipping under root rather than cae_rsc as intended.
- Now uses a Create Project.exe that does not modify the wsdot.cfg file.
- New VBA library that corrects an issue with plotting R/W sheets.
- New VBA library that corrects problem with Global Cell Scale macro. Macro was incorrectly affecting group elements.

2007_10_17

- Added a filter for the General Utilities levels.
- Fixed Global Cell Scale so that it doesn't affect grouped elements.
- The size of RD_BR_Fence and RD_BR_FenceNew was corrected.
- EV_EC_InfiltrationTrenchNew was converted from a cell to a linestyle.
- Correct Place Leader command so that leaders at 20 scale come out correctly.
- Added a new seed file, GuidSign_Base, for use with the GuidSign program.
- Added a new item RD_BR_BarrierCenterTemporary for temporary barriers.
- Changed seed files so that the Place As Cell option is cleared when a new model is created.
Modified the Page Layout Tool so that the saved views created sort correctly.
- Corrected text size of TR_TS subgroup to 0.06.
- Updated various description files for tools in the WSDOT Toolbox.
- Fixed link to description file for Global Cell Scale on WSDOT Toolbox.
- Changed the signature title on the R/W title block to Right of Way Plans Manager.
- Corrected SH_GI_UilitiesLegend so that it will place correctly from the WSDOT menu.
- Fixed RD_BR_BarrierCenter linestyles so that they preview correctly.
- Minor bug fixes to many of the tools on the WSDOT toolbox.

2007_07_11

- PE Stamp macros have been enhanced. Now includes capability to browse and select cell and library to use.
- CAD Standard Manual posted on WSDOT website is now completely searchable.
- Added new sub-category for General Utilities to the main Utilities category. The items under UT_GU are to be used when it is not necessary or where there is not enough information to break down utilities into the other subgroups such as Power, Communications, etc. After the update is complete, see c:\cae_rsc\ms_expandedlevels\help\utility levels.pdf for complete information on the new utility levels.
USERS SHOULD RUN THE UPDATE LEVELS UTILITY IN THEIR BASEMAPS TO CHECK FILES AND UPDATE IF NECESSARY.
- The plotting utility has been enhanced. Will now allow user to specify which view to plot from. Also will default to BW and half size if default printer is capable of half size printing.
- Many of the WSDOT macros were reworked cosmetically to improve consistency between the tools in appearance and behavior regarding the OK and Cancel buttons.
- Matchline tool was corrected to place matchline text on correct level.
- Zoom to Station utility will work only in a base plan. Macro checks file type and gives an error if use is attempted in a sheet file.
- New enhancements to the Saved View utility. Now sorts saved views properly and displays descriptions as well as saved view names. User can double click on a saved view to activate it. User is allowed to specify which view to place saved view into.
- Corrected problem with AL_RW_CLineRWforPSE that was causing it to show as a

solid line.

- A new cell is available: SH_GI_UtilityLegend.
- Centerline tool now has an Undo button that will restart the command from the beginning if needed.
- The traffic movement cells designating direction for one lane of traffic have had the numeral 1 removed from them per Ad Ready's direction.
- Levels designated for the text portion of "Flag" cell (such as DR_SstructureNoteFlagText and TR_IL_WireNoteFlagText) have been removed. Text always has been on the same level as the rest of the cell.
- Bottom border of sheet cells is now one continuous line, not 3 segments.
- Level name and cell name for RD_MK_TrafficLetters (cell that contains the ONLY marking for use turn direction arrows) has been renamed to RD_MK_OnlySymbol.
- Text size for SH_RS_BodyText has been changed to .06 for existing and .07 for New to match the WAEDetails cells more closely.
- WAEDetails.CEL library has been updated so that all cells are compliant with expanded levels.

2007_04_17

- Corrected problem with the Railroad center of tracks features when used on features with sharp curves.
- Removed level filter from InRoads3d.dgn seed file.
- Corrected type in Quadindex.dgn. Quad 0232 was labeled incorrectly.
- Corrected problem with the Place Leader tool that was causing problems when drawing leaders in a sheet file.
- Behavior of Set Scale and Change WSDOT Label dialogs has been modified to display the current settings for the open file. Added OK and Cancel buttons. Automatically set the scale to 1 when in a sheet file.
Added 40 scale option button.
- Plotting limit markers were added to the sheet cells to make it easier to fence plot sheets when needed.
The limit markers will not plot onto the paper.
- New option was added to the Place/Label utility for creating and placing PE stamps.
- Option to reset Saved Views was added to the Label Sheets utility.
- New version of the Create Project Utility with a correction to how the PCF file is created. The default reference directory is now set to BasePlans.
- Corrected linestyle for existing cable barrier.
- Adjusted WSDOT.DGNLIB so that overrides are all turned off for color, weight and style.
- Added a new utility (under Miscellaneous) called Mousefun. Give it a try!
- Modified the Place Pipe macro so that it honors the active level and places the graphics using ByLevel for color, weight and style.
- Added cells for Type 6 and Type 7 painted turning arrows as defined in Standard Plans M-24.40-01.
- Created a new level for Traffic Workzone details - TR_WZ_Details.
- Modified Station Offset Utility so that it honors the active parameters.
- Added functionality to allow the same station to be used for more than one alignment for match lines.
- Added dedicated levels for Traffic Systems conduit and wiring.
TR_TS_ConduitandWiringTS and
TR_TS_ConduitAndWiringTSNew.
- Modified Create Project to store data on SR and mileposts. Added ability to name CAiCE project separately and use longer name for overall project. Creates a project specific cell library and copies documentation templates into the project structure.

2006_12_13

- Removed timeout limitation for MicroStation.
- Added list of all standard data items and where they are used.
- Modified EV_WL_StreamBuffer and TP_MM_RRCenterTracks linestyles so that they start with a dash instead of a gap. Corrected origin for linestyle EV_EC_SandBagorSackNew.
- Corrected weights on Index Cell sheet.
- Added tool tip for Spell Check button on Label Sheets Utility.
- Changed highlight color in InRoads3d.dgn seed file to red to match other resources.
- Corrected filter for Interchange Contours.
- Changed decimal read out from 2 to 4 in our seed files.
- Corrected weights in PE Stamp cell.
- Added WAESigns.cel to resources.
- Corrected line weights in curve tables.
- Changed color of all user levels to 0.
- Corrected commands associated with the items for drainage profiles.

2006_10_18

- As part of the approval process for Expanded Level Addendum to the Plans Prep manual reorganized/renamed various levels. USERS SHOULD USE THE UPDATE LEVELS UTILITY ON THEIR FILES TO ENSURE THEY GET UPDATED TO THE LATEST LEVELS.
- Added new level(s) for TP_MM_RailroadCenterNew. Modified TP_MM_RailroadCenter linestyle to a dashed look to reflect existing.
- Added a new draw/compute area tool from Bentley to Drawing Utilities of WSDOT Toolbox.
- Changed names of all TR_TS_DMS* to TR_TS_VMS*.
- As part of the approval process for Expanded Level Addendum to the Plans Prep manual, adjusted WAEDetail.cel to eliminate obsolete details.
- As part of the approval process for Expanded Level Addendum to the Plans Prep manual, removed bridge, tunnel, generic and user levels from the WSDOT Menu. These items will still be in the resources and available to survey and design, they just won't show up on the PSE Base portion of the WSDOT menu.
- Modified View 1 in the seed file InRoads3d.dgn so that it is in Top view.
- Adjusted Place/Label Sheet utility so that the PLOT# text written below the border is on the correct level, so the r/w border is not an option when you are in a PSE sheet file and so that all the sheet borders are available for placement. Fixed Label portion so that no spaces are left when clear labels is selected.
- Corrected seed file InRoads3d.dgn so that Level Symbology is turned off.
- Added capability to plot a R/W sheet to an 11x17 paper size. Resulting plot is NOT to scale, however.
- Correct Corp of Engineer sheet cell so that no borders are cut off when plotting.
- Corrected Place Centerline utility so that elements are placed with correct symbology.
- Corrected all linestyles that were created with text styles that resulted in the linestyles plotting with black fill around the text symbols.
- Added Copy/Paste Relative to the WSDOT toolbox which allows cut and paste operations that go to the same coordinates.
- Added many new description files for tool in the WSDOT toolbox.
- Corrected bug in the Place Leader tool that was causing the NONE option to fail.
- Corrected origin for cell TR_IL_LightStdDbITimber.

2006_08_15

- Modified WSDOT Toolbox:

- Created new Sheet Utility Category and moved Print Sheets and Place/Label Sheets.
 - Added Miscellaneous Tools to Drawing Utilities.
 - Added Place Leader command to Drawing Utilities.
 - Added Active Angle by 2 Points and Active Angle by 3 Points to Drawing Utilities.
 - Added Addendum Shading to Drawing Utilities.
 - Added See Through Shapes to View Utilities.
 - Added North Arrow (for Base and Reference) commands to Drawing Utilities.
-
- Adjusted plotting files to correct linestyle sizes on full size plots.
 - Adjusted user preference seed file so that Reload When Changing Files is selected for references. Users should set this option in their user preference if no already done. Workspace=>Preferences. Select Reference for the category. This option is 4th one down.
 - Adjusted tab order in the Create Project dialog box.
 - Corrected size of PC/PT/PI circle cells.
 - Adjusted settings to fix problem with thumbnails not updating properly.
 - Added capability to place a user specified cell with the Place Sheets utility.
 - Added new levels:
 1. TR_WZ_UserLevels - Traffic Work Zone levels.
 2. TR_SN_WarningSigns, TR_SN_RegulatorySigns, TR_SN_GuidanceSigns, TR_SN_ConstructionSigns.
 3. SH_GI_ClipLimits.
 4. ST_BG_BridgeApproachSlabNew.
 5. DR_PP_DitchBottomNonDir - Ditch bottom with no directional arrows. This will be the linestyle that will be attached to the survey data since ditches are not surveyed with the flow direction in mind.
 - Updated the WSDOT palette. Now has 5 buttons: WSDOT Menu, WSDOT Toolbox, Last File, Print Sheets, WSDOT CAE Web.
 - Added Bentley Cell library location to cell search path so that the cell libraries delivered by Bentley are easily accessible to users.
 - Remove 4 user defineable buttons from the WSDOT menu. These buttons were causing support problems and the same functionality is available through function keys if needed. Contact your CAE MicroStation Coordinator for more information on function keys.
 - Adjust ditch bottom linestyle to start with the dash rather than the blank portion of the pattern. This allows the style to be visible even for very short ditch runs.
 - Shortened all level names that were over 31 characters to 31 characters or less due to a limitation in InRoads. Users will need to move any information that is on the affected levels to the new levels. See the referenced document for more information. See cae_rsc\ms_expandedlevels\help\updatinglevels.doc.
 - Changed name WSDOT Macros Toolbox to WSDOT Toolbox.

2006_06_06

- The Handy Items list in the WSDOT menu has been replaced by the Macro Toolbox. The macro toolbox organizes all the
- options better and is easier to maintain. A button on the WSDOT toolbar (a red toolbox) is available to access the
- new toolbox. Click the button and try out the new toolbox!
- The search function on the WSDOT menu has been fixed so that it returns only items that show up on the MicroStation menu.
- The Label Sheet utility has been adjusted to use font 217.
- The weights used for the limited access hatchures have been corrected.
- The Shrink and Grow arrows on the WSDOT menu have been modified so that you

actively need to click (rather than just mouse over) them.

- Added new cells TR_IL_LightStdSixMetal and TR_IL_LightStdSixMetalNew.
- Added new level RD_MC_AutoturnLevel1 through AutoturnLevel6 for use when working with AutoTurn.

2006_04_13

- Fixed the match line commands. The ones for sheet and basemap were reversed.
- Various corrections to cells and text sizes in ROW cells.
- Added MouseFun.mvba. Think you know all of your mouse clicks? This is a fun and interactive way to learn Bentley mouse events. This will only work with a 3 button mouse (right handed for now). A two button chord for snapping is not valid for this utility, it expects the snap event to be associated to your middle button. Look under button assignments if your mouse is not set up this way.
- Added RelativeCopyPaste to Handy Items. This is a utility that allows you to use the Copy and Paste functions in MicroStation to move data from one file to another and still retain the coordinates.

2006_01_27

- Modified RW Line Style from a 15 foot dash to the correct 20 foot dash Modified menu so that when an item returned by a search is highlighted, info on its categories is always displayed at the bottom of the menu (rather than by right-clicking).
- Modified menu so that Bylevel is not activated when a user level is selected.
- Saved seed files with display in proper location and set WSDOT dgn type in seed files. All global origins set to 0,0,0.
- Catch Basin Flow Line, Flow Line For Pipes changed to linestyles. Added New to High Visibility Fence Line name. Correction to orientation for Ped Head Signals.

2005_11_08

- R/W Items should always be existing in PS&E plansets so modified R/W boundary and text for PS&E.
- Adjusted the size of the Inlets and Service Control Cabinet cells.
- Removed the keyin history and opened and docked the keyin window at the bottom with the status bar in the seed files so all new files start with no command history and a docked keyin window.
- Moved the USER levels to the project DGNLIB. The project DGNLIB is created by the Create Project Macro.
- Changed color 9 to be the official WSDOT shade of green. Attached the updated color table to all the seed files.

2005_08_30

- Added a Clearing and Grubbing linestyle.
CAE_RSC\MS_ExpandedLevels\symb\ELSTYLE.RSC
CAE_RSC\MS_ExpandedLevels\dgnlib\WSDOT.DGNLIB
CAE_RSC\MS_ExpandedLevels\data\STANDARDS.MDB
- Added a Corps of Engineers cell.
CAE_RSC\MS_ExpandedLevels\cell\WAESTATE.CEL
CAE_RSC\MS_Expandedlevel\vba\NewPlaceSheets.MVBA
- Modified the Convert Icon on the WSDOT toolbox.
CAE_RSC\MS_ExpandedLevels\wsdot\ustn.r01
- Added the Spin Cell for user cells to WSDOT Menu
CAE_RSC\MS_Expandedlevel\vba\WSDOTMenu.MVBA
- Added the Match Line for Base Map and Match Line for Sheets to WSDOT Menu
CAE_RSC\MS_Expandedlevel\vba\WSDOTMenu.MVBA
- Stormwater lines were changed to the correct weight.

- Removed the calls to the UCM's from the WSDOTStandards.CFG.
- Deleted UCM files from cae_rsc\ucm.
- Added the Standard Plans colors to both color tables and attached the updated color table to the seed files.
- Zoomed out in the Seed Files and deleted the Saved Views.