

## MDOT\_02 Workspace Update

Below is a summary of the MDOT\_02 Workspace updates in effect as of 5/6/2015.

Note to Internal Users: DTMB is responsible for statewide server updates on the evening prior to the date listed above. MDOT cannot guarantee that server updates will occur by this time.

Previous monthly Workspace Updates are available at the following links:

Internal: [Updates and Announcements](#)

External: [http://www.michigan.gov/mdot/0,4616,7-151-9625\\_21540\\_36037\\_69214---,00.html](http://www.michigan.gov/mdot/0,4616,7-151-9625_21540_36037_69214---,00.html)

### Currently Supported CADD Software

MDOT\_01 Workspace + Power GEOPAK V8i SS2 - 08.11.07.566 + Windows 7:

- Updates are no longer being made to the MDOT\_01 Workspace.
- Projects currently underway in SS2/MDOT\_01 should remain in this Workspace.

MDOT\_02 Workspace + Power GEOPAK V8i SS3 - 08.11.09.722 + Windows 7:

- The MDOT\_02 Workspace is not backward compatible with SS3 Version 08.11.09.493.
- Utilization of SS3/MDOT\_02 is optional at this time.
- Consultants who wish to use SS3/MDOT\_02 should first obtain consent from their MDOT Project Manager.
- MDOT employees will need to contact [MDOT-PowerGEOPAKSupport@michigan.gov](mailto:MDOT-PowerGEOPAKSupport@michigan.gov) to request installation.
- The MDOT\_02 Workspace is available for download by consultants at the following link:

[http://www.michigan.gov/mdot/0,4616,7-151-9625\\_21540\\_36037-259870--,00.html](http://www.michigan.gov/mdot/0,4616,7-151-9625_21540_36037-259870--,00.html)

Consultant installation instructions are located in the "C:\MDOT\_02 Workspace\1\_Install" folder.

GEOPAK Civil Engineering Suite:

For consultants who choose to install "Geopak Civil Engineering Suite" in place of "Power Geopak", please note that the following combination of software versions is required:

MicroStation V8i (SS3)	08.11.09.608
GEOPAK Civil Engineering Suite V8i (SS3)	08.11.09.722
GEOPAK Civil Engineering Suite V8i (SS2)	08.11.07.615*

\* Note that the version of MicroStation SS3 listed above is fully backward compatible with Civil Suite SS2 and this is the only version of MicroStation SS3 that supports both versions of Civil Suite listed above.

Dual Workspace Installation Procedure:

The procedure for dual installation of both the MDOT\_01 and MDOT\_02 Workspace with "MicroStation / GEOPAK Civil Engineering Suite" is presented in a document titled "\_MDOT\_0201 Geopak CivilSuite Workspace Installation Procedure.doc", which is located in the MDOT\_02 Workspace at "M:\MDOT\_02 Workspace\1\_Install\Resource Files\CivilSuite Configuration". Any questions regarding the installation process should be directed to [MDOT-CADDSupport@michigan.gov](mailto:MDOT-CADDSupport@michigan.gov).

Note: If installing only the MDOT\_02 Workspace, the following procedure may be used to manually modify the "MDOT\_02 / Power GEOPAK SS3" installation process for use with "MDOT\_02 / MicroStation SS3 / GEOPAK Civil Engineering Suite SS3":

1. Follow and complete the Power GEOPAK installation procedure.

2. Relocate the “MDOT\_02\_Local.ucf” and/or “MDOT\_02\_Server.ucf” files as shown below:  
     From Here: C:\ProgramData\Bentley\PowerGEOPAK V8i (SELECTseries 3)\Workspace\Users  
     To Here: C:\ProgramData\Bentley\MicroStation V8i (SELECTseries)\Workspace\Users
3. Delete the folder named C:\ProgramData\Bentley\PowerGEOPAK V8i (SELECTseries 3) and all subfolders.
4. Delete the custom icons that are specific to Power GEOPAK and use the generic icons that get added during software installation.

### **Development Guide Wiki Updates:**

- Updated the following Sections:  
     Clarification regarding the use of the Model dgn and xml files:  
         [Chapter 3 – Models:](#)  
  
     Added the following files to [Chapter 3](#) to be used for proposed ROW information:  
         D-XXXXXX\_ROW\_20YY-MM-DD.dgn  
         D-XXXXXX\_Parcel\_20YY-MM-DD.dgn  
  
     Changed the name of the S-XXXXXX\_Align\_20YY-MM-DD.dgn in [Chapter 3](#) to clarify that it includes all existing ROW information:  
         S-XXXXXX\_Align\_ROW\_20YY-MM-DD.dgn
- Moved the following Sections:  
     [Section 2.4 Guidelines for Plan Preparation](#) was moved to a new [Chapter 7 – Plan and Proposal Preparation](#)
- Added the following Pages:  
     [Chapter 8 – ProjectWise Pre-Bid Processes](#) which includes the workflow processes. This page is currently under construction, but includes in progress pdf files for interim reference.  
  
     Added [Folder Structure](#) which will include all the project folders in the template and provide examples and directions of the types of files that should go in each one.  
  
     Added [Training Materials](#) which will include links to applicable training materials as they become available.

### **Workspace File Update Summary**

#### Display

- File: Display\_Styles\_MDOT.dgnlib  
 Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Display\Display Styles  
 Change: Added display styles for RID & Survey QA.
- File: MDOT\_02.pcf  
 Location: M:\MDOT\_02 Workspace\Projects  
 Change: Grouped level synchronization configuration variables together in Display section and added descriptions for each variable.

## Miscellaneous Levels, Element Templates, & Features

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Updated override color for Scratch Level 20 (need level name) to match ByLevel color.

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Rebuilt file to resolve corruption issues.

## Cells

Files: Bd\_Boundary.cel, Dr\_Drain\_2D.cel, Sg\_Signals.cel, Sh\_Sheet\_Labels.cel, Ut\_Electric.cel, Ut\_Lighting.cel, & Ut\_Uilities.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Synchronized cell levels with level library.

File: Sh\_Sheet\_Borders.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Renamed XS sheet border.

File: St\_Symbols.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Added cells to mask dimension lines that overlap with each other.

File: Ut\_Uilities.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Revised cell description.

## Profiles

File: Features\_CivilClassic\_MDOT.ddb  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Updated Profile folder names in D&C Manager to match level naming convention.

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Associated all alignment feature definitions with the Prf\_PGL\_050 profile option in D&C Manager. The alignments were previously associated with a generic profile feature called Prf\_PGL that was only partially set up for 80 scale.  
Imported profile level symbology from Profile\_01.dgnlib.

## D&C Manager Quantities

File: MDOT\_QtyTable\_40.qtd, MDOT\_QtyTable\_50.qtd, MDOT\_QtyTable\_80.qtd, MDOT\_QtyTable\_100.qtd  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Classic\DnCMan  
Change: Added symbology settings file to match sample plans for sheet quantity lists at acceptable scales.

File: ExportTable.qtd, Quant\_Table\_100.qtd  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Classic\DnCMan  
Change: Removed and replaced by qtd files listed above.

### Roadway Design

File: MDOT\_CorMod\_Template\_Library\_Master.itl  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Roadway Templates  
Change: Added library items for use with revised Civil Cells.

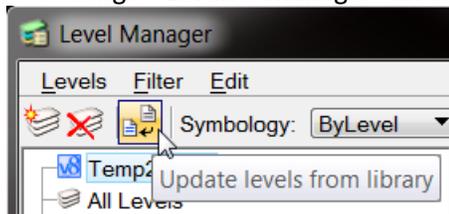
File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Added feature definitions for Civil Cells and longitudinal joints in travelway. Removed Features, Element Templates, & Levels for Surf\_Travelway trigger lines.

File: MDOT\_SideRd\_CnG\_SideRdProfReqd\_NoTaper.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Civil Cells  
Change: Revised Civil Cells.

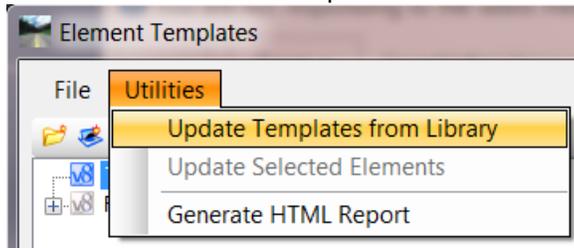
File: XS\_Settings\_MDOT.xin  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Cross Sections  
Change: Added 20 scale option and revised for new XS border cell name.

Note: If the level symbology of some elements in a roadway model do not appear correct, the Element Templates & Levels may need to be updated as follows:

Go to “Settings > Levels > Manager” and click on the “Update Levels from Library” icon.



Go to “Element > Element Templates > Utilities” and click on “Update Templates from Library”.



### GEOPAK Drainage

File: MDOT\_Drain\_Pref\_Prof.ppf  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Classic\Drainage  
Change: Modified profile settings to resemble info as close to sample plans as possible.

File: MDOT\_Drainage.lsf  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Classic\Labeler Style Files  
Change: Added drainage labels for 50 scale drawings

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Removed unused Drain\_Gpk levels. Added Drain\_SUDA levels.

File: Dr\_Drain\_2D.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Cells  
Change: Revised the Cover R & RX cells.

### SUE / SUDA

Update: Development of the Utility portion of SUE is currently in progress.

File: Drain\_3D\_MDOT.cel  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\SUDA  
Change: Ongoing 3D drainage cell development.

### RID

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Added element templates & feature definitions for RID QA of terrains.

### Text & Dimension Styles

File: DimensionStyles\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Styles\Text and Dimension Styles  
Change: Merged with text styles dgnlib and removed file from workspace.

File: TextStyles\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Styles\Text and Dimension Styles  
Change: Merged with dimension style dgnlib and removed file from workspace.

File: Text\_and\_Dimension\_Styles\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Styles\Text and Dimension Styles  
Change: Created by merging text & dimension style files into a single dgnlib due to the dependency of dimension styles on text styles.

File: MDOT\_02.pcf  
Location: M:\MDOT\_02 Workspace\Projects  
Change: Updated text & dimension style configuration variables due to merging of the two style files.

### Structures

File: Text\_and\_Dimension\_Styles\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Elements\Styles\Text and Dimension Styles  
Changes: Updated prefix and suffix in circular dimensions so diameter/radius symbol displayed after the dimension  
Set the Pr\_x\_2.0\_Mask\_Br text to default to underline  
Created a text style to use with bridge dimensions. This text style has a larger spacing for the background blackout.

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Modified / added structure levels for Slope Ground Line, Underdrain, Temp Conc Barrier, & Hidden Lines (Sub\_Footing, Sub\_Wall, Beam\_Conc, Beam\_Steel).  
Revised level priorities for some Bridge levels so they will be below the priority of the sheet labeling levels.

### Survey

File: 021215\_MDOT\_02.mdb  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: Replaced by newer version.

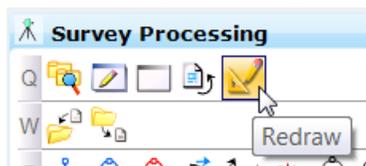
File: 041415\_MDOT\_02.mdb  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: Changed cell name for point feature ALI. Changed level names to point features FTG, CLB, SGND, SGN, SCB, SPB, ABUT, DECK, PILE, DOWEL, PIER, BOS, SMH, WHH, and WMH.

File: Features\_General\_MDOT.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\General\Features  
Change: Relinked Features\_Survey\_MDOT.xml for survey feature definitions.  
Dimmed down color of existing intermediate contour lines in order to provide contrast with index contour lines.  
Added levels for sign survey points.

File: Features\_Survey\_MDOT.smd  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: update Changed Cell name to point feature ALI point. Changed level names to point features FTG, CLB, SGND, SGN, SCB, SPB, ABUT, DECK, PILE, DOWEL, PIER, BOS, SMH, WHH and WMH

File: Features\_Survey\_MDOT.xml  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Civil Standards\Survey  
Change: update Changed Cell name to point feature ALI point. Changed level names to point features FTG, CLB, SGND, SGN, SCB, SPB, ABUT, DECK, PILE, DOWEL, PIER, BOS, SMH, WHH and WMH

Note: Following updates to the "Features\_Survey\_MDOT" smd & xml files, you will need to click on the Redraw icon in the Survey Processing task menu to update previously processed survey data.



### Printing

File: PrintStyles.dgnlib  
Location: M:\MDOT\_02 Workspace\Projects\MDOT\_02\Printing\Print Styles  
Change: Updated 8.5x11 print settings.

## Legend Sheets

File: Legend Sheets MDOT\_02 - Draft 2015-05-06.dgn  
Location: M:\MDOT\_02 Workspace\Sheets  
Change: Synchronized sheet labeling levels with level library. Moved fill patterns from default level to correct level in order to apply transparency.  
Note: The legend will be expanded over time, as CADD standards are developed for each of the specialty design groups.  
Links: Internal: [Sheets](#)  
External: [http://www.michigan.gov/mdot/0,1607,7-151-9625\\_21540\\_36037\\_54428---,00.html](http://www.michigan.gov/mdot/0,1607,7-151-9625_21540_36037_54428---,00.html)

## **MDOT Technical Support**

Technical support is available through the following email addresses, which can also be found on the [Development Guide Help](#) page:

Design Surveys:	<a href="mailto:MDOT-Survey_Support@michigan.gov">MDOT-Survey_Support@michigan.gov</a>
Bridge Design:	<a href="mailto:MDOT-BridgeDesignSupport@michigan.gov">MDOT-BridgeDesignSupport@michigan.gov</a>
Drawing Tools, Printing, Workspace & Software Installation:	<a href="mailto:MDOT-CADDSupport@michigan.gov">MDOT-CADDSupport@michigan.gov</a>
Geometry Tools and Corridor Modeling:	<a href="mailto:MDOT-PowerGEOPAKSupport@michigan.gov">MDOT-PowerGEOPAKSupport@michigan.gov</a>
Geopak Drainage & Subsurface Utilities:	<a href="mailto:MDOT-Drainage-Utility@michigan.gov">MDOT-Drainage-Utility@michigan.gov</a>
Reference Information Documents (RID):	<a href="mailto:MDOT-RIDSupport@michigan.gov">MDOT-RIDSupport@michigan.gov</a>
ProjectWise - General (MDOT staff only):	<a href="mailto:MDOT-ProjectWise@michigan.gov">MDOT-ProjectWise@michigan.gov</a>
ProjectWise - Letting:	<a href="mailto:MDOT-ePROPOSAL@michigan.gov">MDOT-ePROPOSAL@michigan.gov</a>
ProjectWise - Consultant:	<a href="mailto:MDOT-ProjectWiseConsultant@michigan.gov">MDOT-ProjectWiseConsultant@michigan.gov</a>
ProjectWise - Construction:	<a href="mailto:MDOT-ProjectWiseCONST@michigan.gov">MDOT-ProjectWiseCONST@michigan.gov</a>