

### **ODOTcadd Standards for MicroStation and GEOPAK (SELECTseries 4)**

After July 2018 the ODOTcadd standards are updated continuously Standards for **MicroStation and GEOPAK V8i (SELECTseries 4)**.

The ODOTcadd standards include many of ODOT's previous V8istd CADD Standards for MicroStation and GEOPAK, with additional newly developed standards for Bentley's OpenRoads technology; however, there are some changes that are not backwards compatible with previous releases of ODOT's CADD Standards and existing projects. New projects started with MicroStation and GEOPAK V8i (SELECTseries 4) should use the new ODOTcadd Standards.

For this update, the GEOPAK/PowerGEOPAK related standards for the OpenRoads technology have been updated using the SELECTseries 4 version of the software and are therefore incompatible with GEOPAK/PowerGEOPAK (SELECTseries 3). The following software version was used for these updates:

PowerGEOPAK V8i (SELECTseries 4)

### **ODOTcadd Installation**

Starting July 20<sup>th</sup>, 2018, the standards will be delivered via a sync app. There will no longer be a full and patch executable for the ODOTcadd standards. The sync app can be downloaded at the following location:

[ftp://ftp.dot.state.oh.us/pub/CADD/CADDSync/ODOTcadd/ODOTcadd\\_StandardsInstaller\\_1\\_0\\_0\\_1.zip](ftp://ftp.dot.state.oh.us/pub/CADD/CADDSync/ODOTcadd/ODOTcadd_StandardsInstaller_1_0_0_1.zip)

See this YouTube playlist for instructions or this help document.

<https://www.youtube.com/watch?v=ADWQOjBkEtQ&list=PLdyShNRgZlb5d4vwf0oX0mOzJq8zR4gKJ>

<ftp://ftp.dot.state.oh.us/pub/CADD/CADDSync/ODOTcadd/ODOTcaddStandardsSyncTool.pdf>

### **ODOTcadd ReadMe File**

After installing the ODOTcadd Standards, see the following PDF file with additional information about the ODOTcadd Standards as well as configuration information:

[\ODOTcadd\Standards\ReadMe-ODOTcadd.pdf](#)

### **Questions and Suggestions**

Questions and suggestions for improvements to the ODOTcadd Standards should be addressed to the ODOT CADD Services team using the following support request form on the ODOT website:

[https://odot.formstack.com/forms/cadd\\_servicerequest](https://odot.formstack.com/forms/cadd_servicerequest)

## **July 20<sup>th</sup>, 2018**

Start of Running Updates.

## **July 25<sup>th</sup>, 2018**

Project\_Indexer.exe, v 1.0.1.2:

Path: \ODOTcadd\Standards\ODOT\ProjectTools \

## ODOT CADD Standards Revision History

- Fixed crashing error that occurred if a folder name contained a period character in the path to the project folder.

### ODOT\_Menu.dgnlib

Path: \ODOTcadd\Standards\gui\

- Updated *ODOT > Project Management > Project Index* menu item to launch the correct Project\_Indexer.exe application

### Temp\_Traffic\_Control.not

Path: \ODOTcadd\Standards\ODOT\Notes\

- Updated syntax error in 642-24 note, causing the PlanNote.mvba is crash.

## July 26<sup>th</sup>, 2018

### CPP-1-08\_2017-07-21.exe

Path: \ODOTcadd\Standards\ODOT\Sheets\SCD\Bridge\

- Updated the SCD to the correct Drawing.

### Project\_Indexer.exe, v 1.0.1.3:

Path: \ODOTcadd\Standards\ODOT\ProjectTools\

- Fixed crashing error that occurred when creating a zip file without a GPK file listed in the Project Index excel file.

### Project\_Indexer.exe, v 1.0.1.4:

Path: \ODOTcadd\Standards\ODOT\ProjectTools\

- Updated naming of zip file that gets created to match the naming convention in the Guidelines for Electronic Deliverables(from CTY-PID\_CADD.zip to CTY-PID-CADDFiles.zip).

### 2004\_bridge600

Path: \ODOTcadd\Standards\ODOT\Notes\

- Added Notes 107 and 108

### 2007\_bridge600

Path: \ODOTcadd\Standards\ODOT\Notes\

- Added Notes 610.8-1 and 610.9-1

## August 8<sup>th</sup>, 2018

### Temp\_Traffic\_Control

Path: \ODOTcadd\Standards\ODOT\Notes\

- Fixed spelling in 642-44

## August 9<sup>th</sup>, 2018

### Project\_Indexer.exe, v 1.0.1.5:

Path: \ODOTcadd\Standards\ODOT\ProjectTools\

- Updated application to control error that causes program to crash if a file extension for dgn are invalid. (ie 12345\_BE001.dgnold). Same error control added for .dwg, .xml, .gpk, .tin, .gen, .icm, and .ifc.

## August 10<sup>th</sup>, 2018

### ODOT\_AddVertex.mvba, v2018.08.10:

Path: \ODOTcadd\Standards\vba\

## ODOT CADD Standards Revision History

- Updated application to fix error that was changing the symbology of the line to the active symbology rather than keeping the symbology of that line.

### August 22<sup>nd</sup>, 2018

#### ODOT.smd, v2018.08.22:

Path: [\ODOTcadd\Standards\Geopak\Survey](#)

- Fixed SIGNPR item to place the correct cell, SGN1P. and the SN\_X\_Private level.

#### ODOT\_SMD.xml, v2018.08.22:

Path: [\ODOTcadd\Standards\Geopak\Survey](#)

- Recreated to apply changes made to the ODOT.smd file. Listed above.

### August 28<sup>th</sup>, 2018

#### ODOTsite.cfg, v2018.08.28:

Path: [\ODOTcadd\Standards\config\Standards](#)

- Updated the CIVIL\_EXAGGERATION\_VALUES variable to include 1,5,10,25,100 values.

### August 29<sup>th</sup>, 2018

#### ODOTcadd\_Pen.tbl, v2018.08.29:

Path: [\ODOTcadd\Standards\pltcfg\](#)

- Updated Pen table to include shapes in the 'BEGIN US\_STATE\_SIGN\_FILL' section.

### September 4<sup>th</sup>, 2018

#### Project\_Indexer.exe, v1.0.1.6:

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

- Updated code that was causing the program to crash if projectwise explorer is not installed. (note that projectwise is not required to use this application).

### September 18<sup>th</sup>, 2018

#### Project\_Indexer.exe, v1.0.1.7:

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

- Updated application to not use case sensitive checks which was caused basemap and sheet files to not be found

#### ODOTcadd\_StandardsInstaller.exe, v1.0.0.1:

Path:

[ftp://ftp.dot.state.oh.us/pub/CADD/CADDSync/ODOTcadd/ODOTcadd\\_StandardsInstaller\\_1\\_0\\_0\\_1.zip](ftp://ftp.dot.state.oh.us/pub/CADD/CADDSync/ODOTcadd/ODOTcadd_StandardsInstaller_1_0_0_1.zip)

- Updated application to optimize initial download of standards. After several uses mentioned the length of time it took to do the initial download of standards, the application was updated and should now take around 10 to 15 minutes to do the initial download.

### September 21<sup>st</sup>, 2018

#### Project\_Indexer.exe, v1.0.1.8:

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

## ODOT CADD Standards Revision History

- Added checkbox to define if the Sheet name property from the sheet model properties should be used for the files description.
- Added control to ensure that the project index excel file is Named correctly.

### **Project\_Indexer.pdf, v1.0.1.8:**

Path: [\ODOTcadd\Standards\vba\docs\](#)

- Updated documentation to correspond with updates to the application.

## October 5<sup>th</sup>, 2018

### **ODOT\_Linestyles.rsc**

Path: [\ODOTcadd\Standards\symb\](#)

- Updated stripped pavement markings.

## October 10<sup>th</sup>, 2018

### **ODOTcadd\_PenC.tbl**

Path: [\ODOTcadd\Standards\pltcfg\](#)

- Added block to switch sign border color from white to black.

## October 15<sup>th</sup>, 2018

### **Project\_Indexer.exe, v1.0.1.9:**

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

- Updated code that was causing the program to crash if a sid.xml file was found.

## October 16<sup>th</sup>, 2018

### **Project\_Indexer.pdf, v1.0.1.9:**

Path: [\ODOTcadd\Standards\vba\docs\](#)

- Updated documentation to correspond with updates to the application.

## October 17<sup>th</sup>, 2018

### **Project\_Indexer.exe, v1.0.1.10:**

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

- Updated application so the place info button moved appropriately when the dialog is resized.

### **Project\_Indexer.pdf, v1.0.1.10:**

Path: [\ODOTcadd\Standards\vba\docs\](#)

- Updated documentation to correspond with updates to the application.

## October 18<sup>th</sup>, 2018

### **DwgSettings.rsc:**

Path: [\ODOTcadd\Standards\config\Standards\ODOTcadd\\_User\](#)

- Updated default user preferences to default the dwg seed file to I:\ODOTcadd\Standards\seed\ODOT\_Seed.dwg

### **ODOT\_Seed.dwg:**

Path: [\ODOTcadd\Standards\seed\](#)

- Added this file back, it was removed by accident.

### October 24<sup>th</sup>, 2018

#### ODOT\_Symbols.cel:

Path: [\ODOTcadd\Standards\cell\](#)

- Add AERLCH, AERLCS, CSB, BO, SCV, FC, FOM, FOMH

#### ODOT\_SurveyCodes.fxl:

Path: [\ODOTcadd\Standards\Trimble\](#)

- Add AERLCH, AERLCS, CSB, BO, SCV, FC, FOM, FOMH

#### ODOT\_SMD.smd, ODOT\_SMD.xml:

Path: [\ODOTcadd\Standards\Geopak\Survey\](#)

- Add AERLCH, AERLCS, CSB, BO, SCV, FC, FOM, FOMH

#### ODOT\_Features\_Survey.dgnlib:

Path: [\ODOTcadd\Standards\dgnlib\](#)

- Add AERLCH, AERLCS, CSB, BO, SCV, FC, FOM, FOMH

#### ODOT\_Survey\_Codes\_Alphabetical.pdf, ODOT\_Survey\_Codes\_Category.pdf:

Path: [\ODOTcadd\Standards\Geopak\Survey\](#)

- Add AERLCH, AERLCS, CSB, BO, SCV, FC, FOM, FOMH

### October 26<sup>th</sup>, 2018

#### ODOT\_Sheets.cel:

Path: [\ODOTcadd\Standards\cell\](#)

- Fixed model RWPROP-SUM with PID not being centered

### October 29<sup>th</sup>, 2018

#### CreateNewProject.exe:

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\ODOTcadd\\_CreateNewProject.exe](#)

- Made Geotechnical folder is a required folder

#### Project\_Indexer.exe, v1.0.1.11:

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

- Updated application to include any found pdf no matter the directory into the EngData tab.

#### Project\_Indexer.pdf, v1.0.1.11:

Path: [\ODOTcadd\Standards\vba\docs\](#)

- Updated documentation to correspond with updates to the application.

### November 1st, 2018

#### ODOT\_SMD.smd, ODOT\_SMD.xml:

Path: [\ODOTcadd\Standards\Geopak\Survey\](#)

- Fixed a spelling error

#### ODOT\_Survey\_Codes\_Alphabetical.pdf, ODOT\_Survey\_Codes\_Category.pdf:

Path: [\ODOTcadd\Standards\Geopak\Survey\](#)

- Corrected revision date

### December 5<sup>th</sup>, 2018

#### ODOT\_Files.mvba, v2018.11.13:

## ODOT CADD Standards Revision History

Path: [\ODOTcadd\Standards\vba\](#)

- Changed the default sheet cell from GT\_COVER to GT\_COVER2 for the Geotechnical Structure Foundation Exploration Cover (ZC) design file.
- Changed the application to remain in the last file created after the processing is completed rather than return to the originating file.

### seed.dty

Path: [\ODOTcadd\Standards\Seed\](#)

- Updated to include custom coordinate system definitions for NAD80/2011-NF and NAD83/2011-SF with preset values that are ready to be edited with the combined scale factor for a custom coordinate system. This was done to facilitate workflows where the project is created with no GCS defined and the user wants to later define a custom coordinate system.

### ODOT\_RW.cel

Path: [\ODOTcadd\Standards\Cell\](#)

- Fixed the position of the Aerial Target and Utility Valve symbols

### ODOT\_Sheets.cel:

Path: [\ODOTcadd\Standards\cell\](#)

- Split Geotechnical sheet cell into interior and boarder for boring logs

## December 17<sup>th</sup>, 2018

### CTY-PID-GenSum.xlsm:

Path: [\ODOTcadd\Standards\ODOT\GenSum\](#)

- Refreshed Item Master

## January 22<sup>nd</sup>, 2019

### Standard Construction Drawings:

Path: [\ODOTcadd\Standards\ODOT\Sheets\](#)

- Updated SCD for:
  - Roadway
  - Hydraulics
  - Traffic
  - Bridge
  - Pavement

### Plan Notes:

Path: [\ODOTcadd\Standards\ODOT\Notes\](#)

- Updated Plan Notes for:
  - 2019\_Bridge600.not
    - Added notes for new BDM manual
  - 2019\_Bridge700.not
    - Added notes for new BDM manual
  - Temp\_Traffic\_Control.not
    - Updated notes: 642-4, 642-5, 642-6, 642-29, 642-52, 642-59
  - Water\_Quality.not
    - Updated notes: W104, W105
  - Signals.not
    - Updated notes: 442-24, 442-46
    - Deleted note 442-14

## ODOT CADD Standards Revision History

- Highway\_Lighting.not
  - Added notes: 1142-25, 1142-26

### January 24<sup>nd</sup>, 2019

#### CTY-PID-GenSum.xlsm:

Path: [\ODOTcadd\Standards\ODOT\GenSum\](#)

- Removed Item Master 2013 and added Item Master 2019.
- Added Export to estimator xml button
  - This xml file can be imported into estimator and all the funding data is imported with it
  - This replaced the create estimator sheet button.

#### Item\_Master\_addin.xlam:

Path: [\ODOTcadd\Standards\ODOT\GenSum\Add-ins\](#)

- Removed Item Master 2013 and added Item Master 2019.

#### ODOT\_SCD\_List.mvba:

Path: [\ODOTcadd\Standards\vbas\](#)

- Removed Spec Year 2013 and added Spec Year 2019.

### January 28<sup>nd</sup>, 2019

#### ODOT\_Sheets.cel:

Path: [\ODOTcadd\Standards\cell\](#)

- Updated OUPS NEW LOGO cell to match changes to OHIO811.org
- Updated OUPS logo on TITLE1\_INTERIOR sheet cell
- Updated OUPS logo on TITLE4\_INTERIOR sheet cell

### February 22<sup>nd</sup>, 2019

#### ODOT\_Sheets.cel:

Path: [\ODOTcadd\Standards\cell\](#)

- Updated all Sheet border tags to color 0 so the tags will appear with color PDF printing

### February 25<sup>nd</sup>, 2019

#### CTY-PID-GenSum.xlsm:

Path: [\ODOTcadd\Standards\ODOT\GenSum\](#)

- Row 19 was accidentally hidden on the ProjectInfo sheet. Unhid it.

### March 1<sup>st</sup>, 2019

#### Not files

Path: [\ODOTcadd\Standards\ODOT\Notes\](#)

- Correct a coding issue of the note files

### March 8<sup>st</sup>, 2019

#### ODOT\_Menu.dgnlib

Path: [\ODOTcadd\Standards\gui\](#)

- Updated all menu items that launched external applications to account for spaces in directory paths

### March 21<sup>st</sup>, 2019

#### ODOT\_Sheets.cel

## ODOT CADD Standards Revision History

Path: [\ODOTcadd\Standards\cell\](#)

- Updated Bridge Sheet Interior to add wear surface.

### March 27<sup>th</sup>, 2019

**CTY-PID-GENSUM.xlsm, v2019.03.27**

Path: [\ODOTcadd\Standards\ODOT\GenSum\](#)

- Fix bug that left 0 in cells after generating general summary.

### May 17<sup>th</sup>, 2019

**CTY-PID-GENSUM.xlsm, v2019.05.17**

Path: [\ODOTcadd\Standards\ODOT\GenSum\](#)

- Fix bug when creating estimator xml file causing vb error.

### June 3<sup>rd</sup>, 2019

**Project\_Indexer.exe, 1.0.1.13**

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\](#)

- Added disclaimer file inside zip file when it is created.

### June 17<sup>th</sup>, 2019

**GenSum.xlsm, v2019.06.10**

Path: [\ODOTcadd\Standards\ODOT\GenSum\](#)

- Updated DGNClip sheet to text wrap heading row.

### June 21<sup>st</sup>, 2019

**WMSFiles.zip**

Path: <ftp://ftp.dot.state.oh.us/pub/CADD/CADDSync/ODOTcadd/WMSFiles.zip>

- Updated WMS files for OSIP server name change.

### September 19<sup>th</sup>, 2019

**ODOTcadd\_ClientConfigurationTool.exe, v2.0.1.3**

Path: [\ODOTcadd\Standards\ODOT\Utilities\](#)

- Updated to configure MicroStation v8i SS10 and PowerGEOPAK v8i SS10.

### October 15<sup>th</sup>, 2019

**ODOT\_IntersectionDetail.mvba, v2019.10.15**

Path: [\ODOTcadd\Standards\vba\](#)

- Updated with workaround for error that would happen when getting the total length of a chain.

### June 24<sup>th</sup>, 2020

**ODOTcadd\_MicroStationUtilities.exe, v2.0.0.8**

Path: [\ODOTcadd\Standards\ODOT\Utilities\](#)

- Updated to work with MicroStation v8i SS10 and PowerGEOPAK v8i SS10.

**OHDOT\_SCD\_List.mvba, v2020.04.16**

Path: [\ODOTcadd\Standards\vba\](#)

- Updated to allow for more Supp. Specs. To be listed in the app. Before this not all Supp. Specs could be displayed in the app.

## Plan Notes

Path: [\ODOTcadd\Standards\ODOT\Notes\](#)

- Updated Plan Notes for:
  - Signs.not
    - Updated note: 242-3
  - Signals.not
    - Updated notes: 442-10, 442-11, 442-12, 442-43, 442-45, 442-46
  - Temp\_Traffic\_Control.not
    - Updated notes: 642-8, 642-58

## SCD List

- Updated the following files and uploaded to SharePoint
  - SCD\_List.txt
  - SCD\_List.xlsm

## Cells

Path: [\ODOTcadd\Standards\Cell\ODOT\\_Sheets.cell](#)

- Updated Model: TITLE1\_INTERIOR to include an ADA Design Waivers section

Path: [\ODOTcadd\Standards\cell\OUPS Logo\dgn](#)

- New cell library: OHIO811\_Reduced  
Reduced current OUPS logo cell by 15% to make room on the TITLE1\_INTERIOR for an ADA Design Waivers section

## VBA Apps

Path: [\ODOTcadd\Standards\vba\](#)

- ODOT\_StormSewerPlan.mvba. Updated the application to open the DDB in the ProjectWise environment. Two new configuration variables must be defined for the application:
  - ODOT\_VBA\_DATA = \$(ODOT\_STD)vba/data/
  - ODOT\_VBA\_DOC = \$(ODOT\_STD)vba/doc/

## ODOT\_Site.cfg

Path: [\ODOTcadd\Standards\Config\Standards\](#)

- Added two configuration variables to support changes made to ODOT\_StormSewerPlan.mvba:
  - ODOT\_VBA\_DATA = \$(ODOT\_STD)vba/data/
  - ODOT\_VBA\_DOC = \$(ODOT\_STD)vba/doc/

**ODOTcadd\_ConfigureTraining.exe** version: 1.1.1.9

Path: [\ODOTcadd\Standards\ODOT\Training](#)

- Updated to work with MicroStation SS10 and PowerGEOPAK SS10

## E-Signatures

Path: [\ODOTadd\Standards\ODOT\E-Signatures\](#)

- Added E-Signatures folder
- Added eSeal-Template.pdf for engineers template seal
- Added sSeal-Template.pdf for surveyors template seal

## December 19<sup>th</sup>, 2022

### ODOT\_Sheets.cel

Path: \ODOTcadd\Standards\Cell\

- Updated Seal\_E and Seal\_S cells to work with new ODOTcadd\_PlanSeal.mvba
- Added Seal\_LA cell
- Updated TITLE1\_INTERIOR cell to add digital signature field for DDD's signature
- Updated TITLE1\_INTERIOR cell to add the Deputy Director's signature
- Added cell TITLE\_DDD\_SIGNATURE\_LINE
- Added cell TITLE\_DIRECTOR\_SIGNATURE\_W\_LINE
- Added cell TITLE\_DIRECTOR\_SIGNATURE\_WO\_LINE
- Added SIGNATURE8.5x11 and SIGNATURE8.5x11\_INTERIOR cells
- Added verbiage to signature sheet interior cell
- Added 2 subtitles to signature sheet interior cell

### ODOT\_Menu.dgnlib

Path: \ODOTcadd\Standards\gui

- Added ODOTcadd Plan Seal button within ODOT tab > Sheet Management > Title Sheet.

### ODOTcadd\_PlanSeal.mvba

Path: \ODOTcadd\Standards\vba\

- New app that will place seals and signatures

### ODOT\_Styles\_Printing.dgnlib

Path: \ODOTcadd\Standards\dgnlib\

- Set ODOTcadd\_Project.dscript as the default design script name for all PDF print styles
- Added ODOT PDF ARCHD24x36 print style for certain county (ridiculous) requirements for filing R/W. this will look for a shape on the SH\_Cut\_Line2 level for the print boundary.

### ODOTcadd\_PDF.pltcfg, ODOTcadd\_PDF\_Color.pltcfg, ODOTcadd\_PDF\_Levels.pltcfg

Path: \ODOTcadd\Standards\pltcfg\

- Set ODOTcadd\_Project.dscript as the default design script file name

### ODOT\_Levels\_General.dgnlib

Path: \ODOTcadd\Standards\dgnlib\

- Added SH\_Cut\_Line2 level to use with ODOTPDF ARCH24x36 print style

### Cells

Path: \ODOTcadd\Standards\Cell\ODOT\_Geotech.cel

- Added: EOD\_WATER\_LT & EOD\_WATER\_RT

### Plan Notes

Path : \ODOTcadd\Standards\ODOT\Notes\

- Updated the following files to be current with January 2021 DRRC revisions
  - Water\_quality.not

- Signs.not
- Signals.not
- School.not
- Pavement.not
- Drainage.not
- ITS.not
- Markings.not
- Signals.not
- Temp\_Traffic\_Control.not
- Vol1\_Roadway.not
- Highway\_Lighting.not
  - Deleted 1142-5, 1142-6, 1142-7, 1142-8, 1142-9, 1142-10, 1142-10, 1142-11
- Bicycles.not
- Enviromental.not
- General.not
- 2020\_bridge600
  - Deleted 606.2 section 511
- 2020\_bridge700
  - Updated notes

### SCD List

- Updated the following files and uploaded to SharePoint
  - SCD\_List.txt

### ODOT\_SCD\_List.mvba

Path: [\ODOTcadd\Standards\Vba\](#)

- Updated to account for commas in the SCD name (Hydraulics now has commas in SCD names).
- Made first column of drainage SCD wider to account for longer SCD names.
- Updated to not crash if no SS800 date is listed when trying to set the SS800 revision date
- Updated placement of SS800 to have a text width of 0.09.
- Updated for SS800 Date saying SEE PROPOSAL instead of a date.

### CreateNewProject.exe: version 2.0.1.44

Path: [\ODOTcadd\Standards\ODOT\ProjectTools\ODOTcadd\\_CreateNewProject.exe](#)

- Removed the ability to create new projects as New projects should be using our OHDOT CONNECT workspace.

### Drainage and Utilities

- Updated DGNLIB
  - Updated drainage and utilities Conduit Catalog to match current L&D V2 manual for Sanitary Pipe thickness.