

CADD NEWS

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NCDOT CADD Services Newsletter

February 2018

New CADD Technology Preview

CADD Services will be conducting a series of Webinars aimed at previewing Bentley's next-generation software which is called OpenRoads Designer (ORD). The goal of these webinars is to expose users to significant changes that are coming and getting user thoughts and suggestions on how this technology should be implemented. CADD Services strongly recommend that if you can attend this series as there are various brand new technologies, and ways of doing things, that are entirely different from our current technology and workflows.

Upcoming Webinar Dates and Topics

(via Skype at <https://meet.lync.com/ncconnect-ncdot/blewards1/L9G0FBF9>)

- Feb. 7 1-2:30 p.m.—Features, Feature Symbolologies and Annotation Scale
- Feb. 14 1-2:30 p.m.— Topic to be announced
- Feb. 21 1-2:30 p.m.— Topic to be announced
- Feb. 28 1-2:30 p.m.— Topic to be announced

The conference call number is **919.662.4528**. This number can only support 150 people. If you can have a headset or speakers please join the audio via SKYPE.

Previous Technology Webinars

can be found on the Inside NCDOT CADD site at

<https://inside.ncdot.gov/Business/technology/CADD-Services/Pages/default.aspx>

- Jan. 24 Webinar 1—Intro to MicroStation Connect /ORD
- Jan. 32 Webinar 2—Element Templates and Project Explorer



This series may be your best opportunity to have input into decisions that will ultimately shape the NCDOT CADD world for the next 5-10 years!

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FHWA Hydraulic Engineering Video

The FHWA Hydraulic Engineering Discipline is pleased to announce the availability of a series of informational videos organized into a YouTube playlist: https://www.youtube.com/playlist?list=PL5_sm9g9d4T26H-wyM5Xa5GhDyTU2HcOw. This series of six videos showcases the use of a portable flume to visualize open-channel flow and culvert design concepts. The specific topics covered in the videos are:

- **Open Channel Flow Concepts:** This video covers basic open channel flow concepts including how flow is classified.
- **Grate Inlets:** This video demonstrates grate inlets commonly used in storm drain catch basins.
- **Culvert Hydraulics:** This video shows how culvert design factors influence flow depths and velocities.
- **Culvert Liners:** This video demonstrates how rehabilitative liners may change culvert hydraulic performance.
- **Aquatic Organism Passage:** This video introduces aquatic organism passage design concepts for culverts.

Energy Dissipaters: This video demonstrates the hydraulic performance of a number of culvert energy dissipaters.

Inside NCDOT CADD website Update

The screenshot shows the 'CADD Services' page on the 'Inside NCDOT' website. The page is titled 'CADD Services' and includes a navigation menu with 'Home', 'Employees', 'Transportation Services', 'DMV', and 'Business & Administration'. A search bar is located at the top right. The main content area is divided into several sections:

- New Question and Answer Section:** An arrow points to the 'CADD Q&A' link in the left sidebar.
- Welcome:** A section titled 'Welcome to the Computer Aided Design Drawing (CADD) Services' with a brief description of the department's mission and links for 'CADD Training & Support', 'CADD Connect', and 'CADD Team Site'.
- CADD Services Updates:** A section featuring a video thumbnail for 'OpenRoads Designer Construction-driven Design'. Below the video, text describes a series of webinars for Bentley's next generation version of MicroStation/Geopak, called OpenRoads Designer (ORD). An arrow points to the 'Webinar Announcements' section, which lists dates for future sessions: February 7, 1-2:30pm and February 14, 1-2:30pm.
- Webinar Video Links:** An arrow points to the 'Webinar Video Links' section, which provides links to recordings of previous sessions: January 24 - Session 1, January 31 - Session 2, February 7 - Session 3, and February 14 - Session 4.
- CADD Announcements:** A table listing recent updates, including 'New CADD Question & Answer Section' (4 days ago), 'Moving of CADD Printers / Plotters -- Contact CADD Services' (April 15, 2016), and 'CADD Services You Tube Channel' (April 22, 2014).



Advanced Search on Inside NCDOT

Many people may still not know about the Advanced Search on Inside. This search spans across the below three repositories:

As-built plans from all centrally let highway projects as far back as DOT records exist (the 1910s)

Pre-Construction content for TIP projects (information in Project Store) Note: CADD files are excluded.

Construction content for projects with Construction sites (accessible only by DOT Construction users)

The Hyper link for the word document referenced above is.

<https://connect.ncdot.gov/help/SharePoint-Training/QuickReferenceDocuments/SearchAdvancedECD.docx>

How To CADD

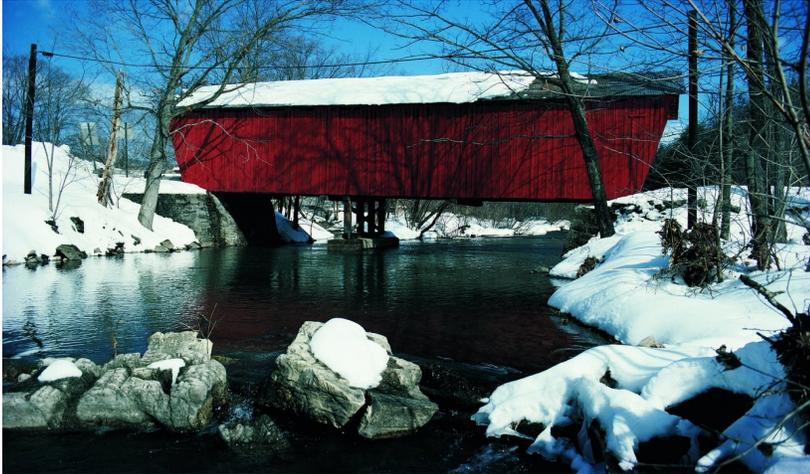
CADD Services provides a collection of “How To” documents, which include:

- _Topic Index for How To docs.docx
- HowTo_Add Cadd Plot Queue.doc
- HowTo_Attach Recent Imagery from Photogrammetry.docx
- HowTo_Attach WMS imagery.doc
- HowTo_Auto Update Workspaces.doc
- HowTo_Auto-load workspace on dgn file launch.docx
- HowTo_Control Initial On-Off Status of AccuDraw on dgn File Open.docx
- HowTo_Create Personal Customizable Workspace.doc
- HowTo_First Steps for Your CADD Machine.docx
- HowTo_Help Ticket Suggestions.docx
- HowTo_Hide Numbers and Letters on Tool Icons.doc
- HowTo_Increase Screen Real Estate for Drafting.docx
- HowTo_Professional Seals in CADD.docx
- HowTo_Run Bentley Lic Wiz.doc
- HowTo_Saved Views.docx
- HowTo_Snap Mode - Customize MultiSnap.doc
- HowTo_Snap Mode as User Preference.doc
- HowTo_Use AccuSnap for Fence Placement.docx
- HowTo_Windows 10 Customizations for CADD Users.docx
- HowTo_Workspace Topics for Users.doc

To access these documents, update your NCDOT_STDS workspace. Then double-click the CADD Tools shortcut on your desktop.



In the resulting browser window, launch “How To Docs”.



Running Coordinates

With Current upgrades of MicroStation V8i SS2 to Power GEOPAK V8i SS4, you might find that your running coordinates at the bottom of the MicroStation window have disappeared. To turn running coordinates back on (or turn them off). Simply right-click in the running coordinates status box and toggle it on or off. If you want to keep the setting don't forget to perform a File => Save Settings

CADD PCs

Business Rep

Submit justification to Client Services Representative for new CADD Machine detailing type of CADD work required and why CADD is needed by the user

Client Services Rep

Fills out New Hardware/Refresh Request Form
Submit form to SHOP Tracking system
Request authorization from CADD Services

CADD Services Rep

Authorizes release of CADD machine from Warehouse

Warehouse Rep

Coordinate delivery or pickup of equipment with Client Services

This is a reminder that all requests for CADD hardware must be submitted to CADD Services at (itcaddhardware@ncdot.gov) by using the form located on the team site (see URL below).

https://inside.ncdot.gov/Teams/ITTechSupport/Teamsite%20Docs/Bulk%20Purchase%20Documents/In-Stock%20Hardware%20Request%20Form_122117.docx

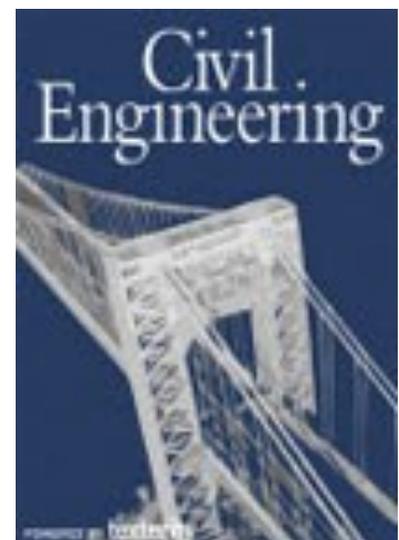
CADD Services maintains a stock of CADD hardware and must approve any new or refresh request. We have been getting a lot of requests sent directly to the IT Business Office, which creates a lot of confusion in the process.

GEODETTIC DATUMS EXPLAINED IN FOUR MINUTES AND THIRTY SECONDS

What are Geodetic Datums?

In this video we explain the basic concepts behind geodetic datums, where they are used, and why it is important to know about and use them.

<https://www.youtube.com/watch?v=kXTHaMY3cVk>





Upcoming CADD Training (as of 06.31.17)

Class	Start Date	End Date	Location
MicroStation I	Feb. 13	Feb. 14	Winston-Salem
MicroStation I	Feb. 20	Feb. 21	Asheville
MicroStation I	Feb. 27	Feb. 28	Raleigh— FULL
MicroStation III	March 6	March 7	Asheville
GEOPAK Basics	March 20	March 22	Winston-Salem
GEOPAK Basics	April 3	April 5	Asheville
GEOPAK Survey	April 17	April 18	Winston-Salem
GEOPAK Survey	May 1	May 2	Asheville
MicroStation I	May 16	May 17	Winston-Salem
MicroStation I	May 23	May 24	Asheville
GEOPAK Construction	June 5	June 6	Winston-Salem
GEOPAK Construction	June 20	June 21	Asheville

To sign up for these or any other CADD Services training classes. Log into the NC Learning Center (<https://mybeacon.its.state.nc.us/irj/portal>) with your NCID credentials. Select the appropriate class or classes you wish to take.



The Last Word

Blame it on Technology—20 things we don't do anymore

1. Memorize a phone number
2. Use a phone book to find a company to do work around your house
3. Park your used car on the street with a sign that says it's for sale
4. Figure out math in your head
6. Telling time by hands on a clock
7. Make photo albums
8. Have a CD or record collection
9. Make mix tapes
10. Call a theater to get movie times
11. Record your favorite programs on tape
12. Watch shows when they are broadcast live
13. Run to the store for a last minute gift
14. Cut things out of the newspaper
15. Send a handwritten letter
16. Looking up the spelling of words in the dictionary
17. Use a phone booth
18. Carry enough change to make a phone call
19. Use a travel agent
20. Get old checks from the bank every month.

From USA Today 05.05.17

Contact Us

NCDOT
Information Technology
Engineering Technology
Systems Engineering
Applications Service
CADD Services

Web Address

<https://connect.ncdot.gov/resources/CADD/Pages/default.aspx>

Mailing Address

Century Center Complex
Bldg. A 1597 Mail Service
Center Raleigh, NC 27699-1597

Phone: 919.707.7030

Fax: 919.212.3072

IT West

/co: Bridge Maintenance
1296 Prison Camp Road
Newton, NC 28658

Phone: 828.468.6255

NCDOT Intranet address

<https://inside.ncdot.gov/Business/technology/Pages/Tech-CADDServices.aspx>

“Some problems are so complex that you have to be highly intelligent and well informed just to be undecided about them.” -Laurence J