



NDDOT Construction and Project Development Conference

March 24, 2021

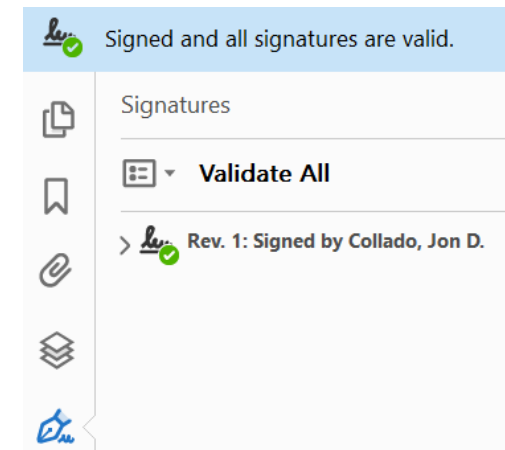
Jon Collado

jcollado@nd.gov

NDDOT
North Dakota
Department of Transportation

Digital Signatures are More than Electronic Signatures

- Usually contain electronic graphic
- Protective (locked from editing or invalidated)
- Verifiable
- Nearly impossible to forge (use encryption)



Digital Signatures at the NDDOT

Timely Tools and a Timely Implementation

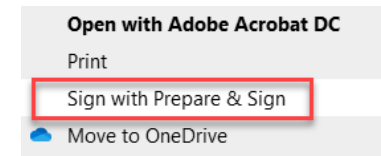
- Faster workflow- signing distributing and routing
- Addresses work from home issues
- Most staff working from home to address COVID issues
- Some staff have selected to work from home with hoteling (temporary business office)

Additional Advantages

- Easier filing
- Security (Remember, this is the main point.)

DocuSign Provides Many Different Tools

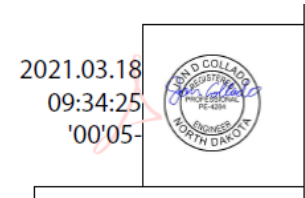
- Client (Sign with Prepare and Sign)
 - Used for plan sheets
- Portal
 - Used for plan sheets
 - Usually used by Non-DOT staff on projects where NDDOT is the lead designer (Other agency signatures)
 - Can be used by consultants if they are not the lead designer.
- Cloud (eSignature)
 - Used for Environmental Documents and Decisions Documents
 - Allows specified users to edit (make comments and decisions) in specific areas of a document while other approved areas of the document are locked.



☰ **DocuSign eSignature**

Consultant working On NDDOT Plans

- Digital Signatures are Encouraged.
- Optional if the Lead Designer is not NDDOT staff
- If lead designer is a Consultant, they can choose digital signature software they want to use.
- Adobe Pro (Self Issued Certificate) – Cheap Solution
- Blue Beam and Other Solutions



Internal Staff

- OPD is using DocuSign- Plans, Environmental Documents and Decision Documents
- Districts and are encouraged to use digital signatures for plans
- DOT Upgrade DocuSign 8.4 to 9.4
 - Enhancements
 - Watermark not needed for large seals
 - Un-signing History on First Signature



DocuSign SA Prepare & Sign

DocuSign Cloud Statistics

- Year 2019 – 63 Envelopes (Documents)
- Year 2020 – 1993 Envelopes
- Provides an opportunity to review and approve a document in minutes

DocuSign Cloud Statistics

- 5 days
 - Average NDDOT review and approval time using DocuSign Cloud
 - Review time is more than automation
 - We haven't measured the average paper review and approval times.
- Hung-up, Learning Curve?
 - 7% declined to sign
 - 11% voided

DocuSign Client Statistics

13117 signatures have been used by the NDDOT

- We don't have statics for specific years, only a running total.

Support for Digital Signatures on NDDOT Documents

- Resources Posted on Internet

<https://www.dot.nd.gov/manuals/design/caddmanual/DigitalSignatures/Digital%20Signature%20and%20Adobe%20Portfolio%20References.pdf>

Support for Digital Signatures on NDDOT Documents

INTERIM GUIDELINES FOR SEALING PLAN SETS DURING PANDEMIC
DIGITAL SIGNATURE GUIDANCE - NDDOT
April 16, 2020

- Old and New Guidance - Changes
 - Addendums- only include pages with changes
 - ED (Electronic Distribution) version of plans doesn't use an electronic distribution statement when created from digital signature originals.
 - ED version does not use an Adobe portfolio. DS (Digital Signature) version use a portfolio.
 - Revised Adobe setting needed for verification - Disable option "Require certificate revocation checking to succeed whenever possible during signature verification."
 - DocuSign Cloud and Adobe Pro require a merged seal and signature graphic.

CADD Update Status of Connect Edition

Old News

- Support for SS10 (V8i) will be discontinued at the end of year 2021.
 - Software may still work and be licensed but Bentley Systems probably won't answer questions about this software.
 - No SS10 Bentley Download in 2022? New consultants might not have the SS10 option in 2022.
- NDDOT has not set a mandatory implementation date. Workspace development is ongoing.

Tell Me Something New

Things that may happen before mandatory Connect Edition implementation date

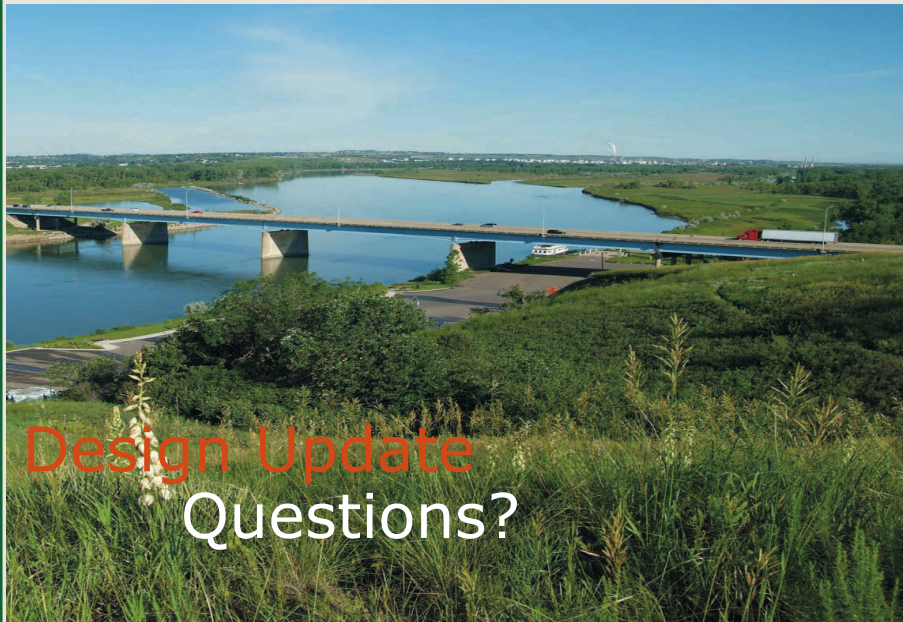
- Major software conflict after 2021 that forces support issues with SS10
- Workflows Not fully supported
 - Deed Writer – ORD 10.10, replacement for Geopak Legal Descriptions?
 - Alignment Report for Section 081 sheets
 - Improved Mass Diagram Workflows
- NDDOT Might Skip Version 10.09
 - Currently on 10.08
 - 10.09 updated is available from Bentley
 - Beware of compatibility issues

Moving Forward

- Pilot Projects Encouraged
- Beta Standards
 - Not linked – advertised through CADD user groups

<https://www.dot.nd.gov/manuals/design/caddmanual/DigitalSignatures/Digital%20Signature%20and%20Adobe%20Portfolio%20References.pdf>

- Training
 - NDDOT is using “Bentley Learn”.
 - Time must be set aside for this training.
 - User group meetings



Design Update Questions?

NDDOT Construction and Project Development Conference

March 24, 2021

Jon Collado

jcollado@nd.gov

NDDOT
North Dakota
Department of Transportation