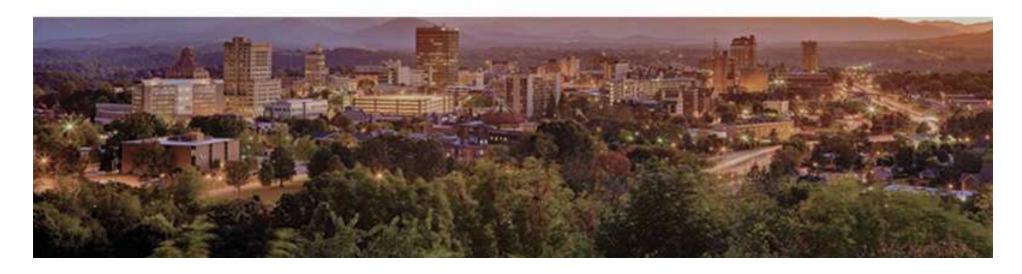




NC DOT Engineering Content Management

Preconstruction Project Sites

Ellen Dickson







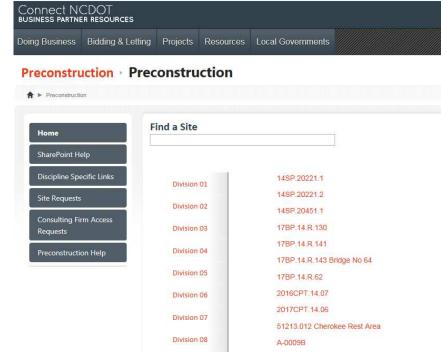
# Announcing: NCDOT Preconstruction Project Sites

To facilitate project delivery through enhanced collaboration between NCDOT and its partners, online Preconstruction Project Sites are being established for every transportation project.

### Each Preconstruction Project Site will allow:

- Registered users (internal and external) to submit,
   review, and modify project files based on their roles;
- A consistent way to organize project files statewide;
- Rapid and comprehensive searching of all project files;
- Transfer of large files;
- · Versioning of project documents; and
- Access to project files from mobile devices.

The initial rollout includes support for the planning portions of the project; support for additional disciplines & project phases will follow.





### Previous Operating Model

CENTRAL DOT PRECONSTRUCTION UNITS

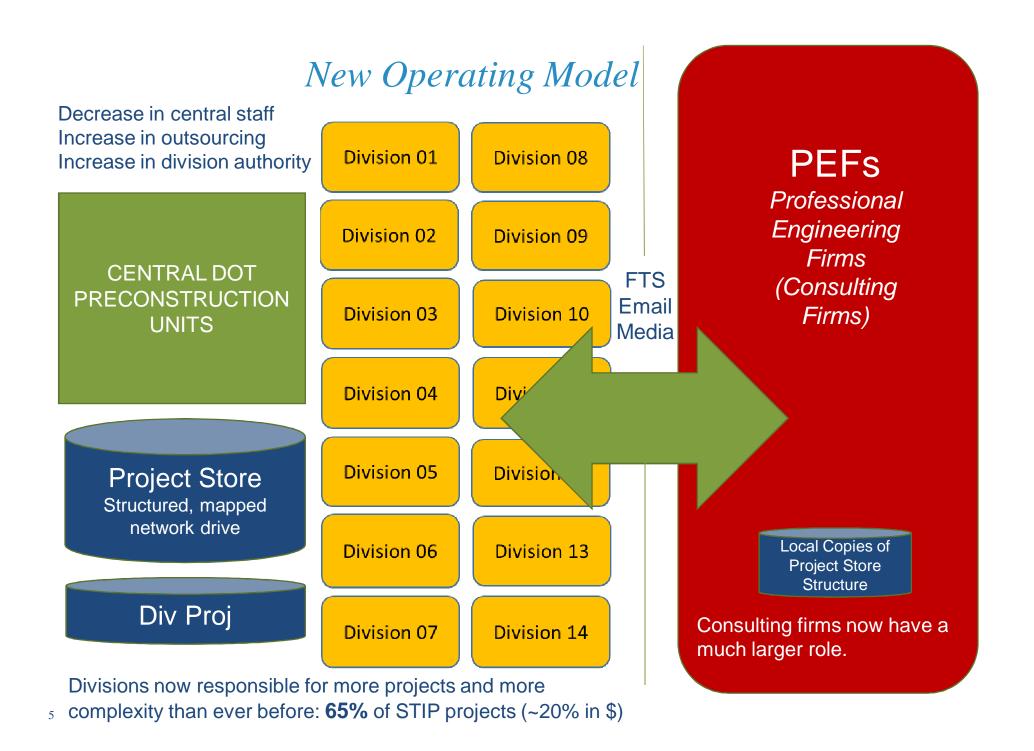
Project Store
Structured, mapped network drive

Division 01 Division 02 Division 03 Division 04 Division 05 **FTS** Division 06 **Email** Media Division 07 Division 08 Division 09 Division 10 Division 11 Division 12 Division 13 Division 14

PEFS
Professional
Engineering
Firms
(Consulting
Firms)

Local Copy of
Project Store
Structure

Divisions responsible for < 5% of STIP projects



# Goals to Support Project Delivery

### **Accessibility goals:**

- Appropriate access by all involved user groups: DOT users (central and division), Consultants (PEFs), and External partners
- Access from mobile devices

### **Functionality goals:**

- Easy & intuitive to use, fits business processes & terminology
- Handles large files
- Tools tailored for CADD design
- Automation & standardization
- Everyone works with same reference copy
- Versioning
- Backup & recovery, retention management

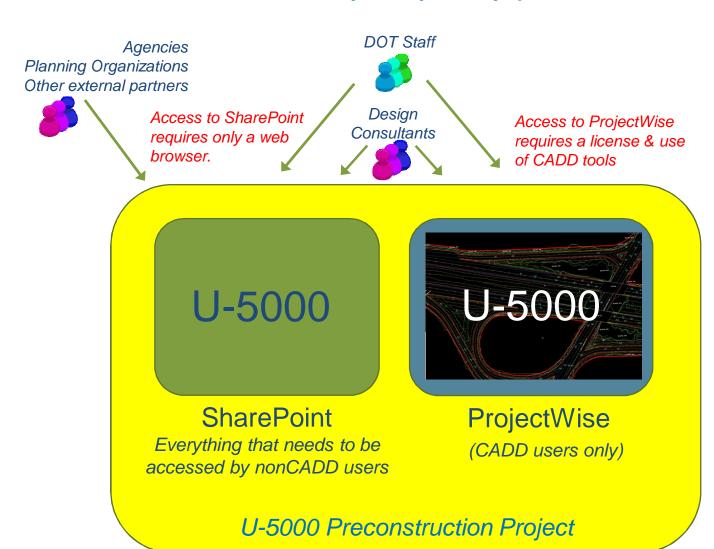
### **General Content Management goals:**

- Organized online storage and useful tools
- Ability to navigate to content by discipline
- Ability to search for content & quickly locate deliverables



# Preconstruction project site model

one site per transportation project



# First Step: SharePoint



### Sept 2016: Initial rollout on SharePoint

- > 1000 sites created so far, one per project
- Each site is built from a common template

#### Initial rollout Benefits:

- Consulting firms can contribute to some libraries based on assigned role and read the rest
- DOT & Consultants can store, share and exchange files in a persistent place:
  - Files are not deleted unlike with FTS
  - Multiple groups can access same set of files
  - Initial set of disciplines can be completely moved to SharePoint instead of using Project Store
  - Store ETRACS deliverables here & provide link
- Quick Reference files, FAQ, useful links

### Initial rollout **Limitations**:

- Other disciplines must share and exchange files or sets of files in the From DOT and To DOT libraries
- No CADD support yet

Transportation 2012 Transport 2

# Next Steps on SharePoint

By January 2017:

Added Tuesday 11/8

- Precon Announcements on Preconstruction Home page, to inform users of new features
- Project Development Collaboration library
   collaborate with resource agencies & planning organizations (MPOs, RPOs) on environmental
   documents etc.
- DOT Restricted library

Restricted cultural resources, protected species, plans by others (visible to DOT only)

NOTE: Info that should not be shared with a broad audience, such as Man day estimates, engineering ests., consultant feedback – should not be put in these sites

• **Project Contacts** list

Keep track of who is working on the project & their contact info

New User Survey

### **Incrementally roll out improvements:**

- More document libraries
- More useful tools
- Updates to Help information

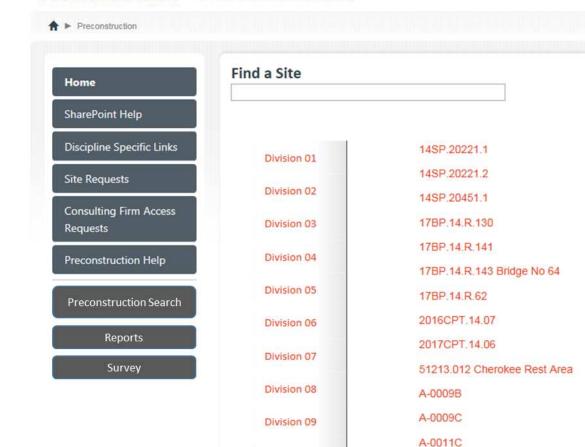
Prioritize & enhance model based on User Group Feedback:

To volunteer for the **Preconstruction User Group**, contact Ellen Dickson ehdickson@ncdot.gov

Monthly meeting – in person in Raleigh or join by phone



### Preconstruction Preconstruction



Division 10

Division 11

Division 12

Division 13

Division 14

B-3186

B-5408 B-5541

B-5896

B-5897

B-5898

#### **Precon Announcements**

#### Title

#### More flexibility in naming project sites

When requesting a new preconstruction project site, DOT users may now provide a short (20 character) description that will be added to the end of the TIP or WBS to make the site name. This allows you to set up separate sites for projects that share a WBS and enables a more user-friendly site name than a WBS alone provides. Use the "WBS Extension" field in the Site Requests list to make your site names more usable.

Future Direction (subject to change)

### B-5501 B-5501

### Precon Project Site



#### **Project Site**

- → Preconstruction Home
- → Grant Consulting Firm Access
- → Discipline Specific Links
- → Project Commitments
- → Key Documents
- → Project Calendar
- → Project Contacts
- → Project Information
- → Project Site Access Summary
- → Project Structures

### Future Direction (subject to change)

#### **GENERAL**

**General Announcements** 

**DOT Restricted** 

Project Input - Data, Recommendations, and Other

**Review Comments** 

#### DISCIPLINES

Geotechnical

Human Environment

Hydraulics

Intelligent Traffic Systems and Signals

Location, Surveys, and Photogrammetry

Natural Environment

Pavement and Resurfacing

**Project Development** 

Right of Way

Roadside Environmental

Roadway

Signing and Delineation

Structures

**Utilities Engineering** 

Work Zone Traffic Control

#### **EXTERNAL COLLABORATION**

**Project Development Collaboration** 

Utilities Coordination

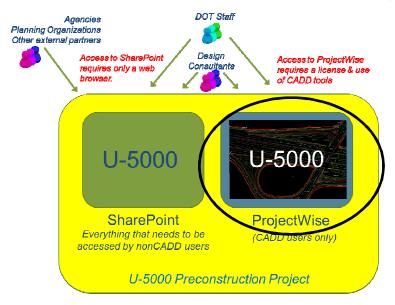
#### **PLANS & PROVISIONS**

Key Milestone Plan Sets

**Final Provisions** 

Assembly for Let

## Bentley's ProjectWise



SharePoint does not understand CADD internal references.

 Files (or .zip files) can be stored there, but designers need more

NCDOT plans to use ProjectWise for storing and sharing CADD based content.

### NCDOT is in the process of procuring

- Use of Bentley's cloud-based managed ProjectWise Design Integration environment
- Use of additional service offerings:
  - ProjectWise Project Sharing Services
  - ProjectWise Deliverables Management
- Services engagement with Bentley to help us get started
- Exact configuration of applications & tools for CADD still under development



## How you can benefit!

- Online access to project repositories
- Easy way to store/transfer large files
- Access from mobile devices\*
- Simpler standard project structure less complex than today's TIP folders
- Consistent structure from project to project
- More libraries and features coming soon!

## What you can do to get started

- Start using the project sites!
- Request new sites be set up for projects that don't yet have sites
  - Use the "WBS Extension" field to add a word or phrase to the site name
- Grant access to projects for the consulting firms you're working with
  - Subs can be granted access as well
- Consider participating in the Preconstruction User Group or otherwise provide constructive feedback

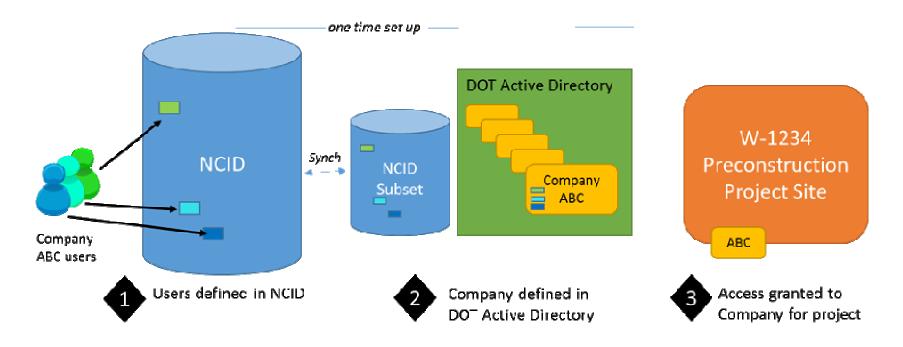


<sup>\*</sup>Windows & IOS devices. Android users must use an app, such as SharePlus.

# Backup Slides



## Consulting Firm Access



- 1. Get an NCID at no cost from <a href="https://ncid.nc.gov">https://ncid.nc.gov</a>. Login & update password.
- 2. Contact Diana Feigin <a href="mailto:dfeigin@ncdot.gov">dfeigin@ncdot.gov</a> to set up (or update) company group, providing primary & backup user administrator name and list of users to be included: names, NCIDs, email addresses
- 3. DOT users on project grant role-based access to consulting firm as a group



# ProjectWise Project Sharing Services

