INDOT CAD Implementation and Migration

C. Anthony Elliott
Applications Consultant
Bentley Transportation
- Local Indianapolis Office
- GDS experience
- Previous INDOT experience
- Midwest MVAR
- DOT experience

- GDS experience
- Programming experience
- Database experience
- G-Live (GDS graphic data translator)
G-Live Application

Available Features
- Hydrology
- Topography

Professional Data Dimensions
- Indianapolis office
- Previous INDOT experience
- Documentation staff
• MOSS existing civil design software
• MXRoad – Windows version
• 3D Modeling of Strings
Lots of Software

- GDS - Legacy CAD system
- MOSS/MXRoad - Legacy Design Software
- MicroStation J - New CAD software
- ESRI - New GIS Software
- ERMS - Electronic Records Mgmt. System
- AASHTO - TRNSPort and SPMS

Lots of Software

- GDS - 150 CADD users
- MOSS/MXRoad - 30 plus users
- MicroStation J - 207 user licenses
- Descartes - 5 user licenses
- ESRI - Various quantities
- ERMS – Proof of Concept
New Applications

- Project Utility Manager
- “Smart” Indexer
- Extensive Use of Settings Managers
- Site Line Analyzer
- Automated Plan/Profile Creation
NT Directory Structure

Project Utility Manager
“Smart” Indexer

- Develop standard naming convention for plan set sheets. Utilized by ERMS document management system.
“Smart” Indexer

• User executes a MicroStation macro to create DGN file with all displayed reference files. User selects drawing category.

“Smart” Indexer

• User selects sub-category of drawing type.
“Smart” Indexer

• User selects the location of the ERMS vault directory.

9902117_SR45_RD_CD.001.DGN

“Smart” Indexer

• DGN created and placed into the ERMS vault.

9902117_SR45_RD_CD.001.DGN
“Smart” Indexer

Create “smart” index listing of created DGN’s
Use database to generate drawing list
User places the finished list on INDEX drawing