



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

BDE PROCEDURE MEMORANDUM

NUMBER: 17-17

SUBJECT: BDE Manual Revision – Chapters 1, 4, 11, 19 & 35

DATE: November 30, 2017

Chapters 1, 4, 11, 19 and 35 of the *BDE Manual* have been revised as a result of the newly created Surveys, Mapping and Modeling Section in the Bureau of Design & Environment. Please see the *BDE Manual* on-line to view the revisions.

Background

With the implementation of three-dimensional (3D) Computer Aided Drafting and Design (CADD), the Department has revised its workflows pertaining to CADD and Geographic Information Systems (GIS) technical support functions. In response, and in line with the Department's 3D CADD Implementation Plan, the Modeling and Support Unit has been established within the newly created Surveys, Mapping and Modeling Section (formerly Aerial Surveys) in the Bureau of Design & Environment.

Sections 1-2.01(c) and 11-8.05 of the *BDE Manual* have been revised to add the work functions of the newly established Modeling and Support Unit, which will be responsible for the following:

- Setting Computer Aided Design & Drafting (CADD) policy statewide;
- Maintaining and updating the IDOT *Computer Aided Design, Drafting, Modeling and Deliverables Manual*;
- Ensuring engineering policies are developed and fully integrated into CADD software and processes;
- Providing liaison activities between bureaus, districts, consultants, and our CADD software vendor(s);
- Maintaining the IDOT CADD workspace environment;
- Maintaining 2-D and 3-D CADD cell libraries;
- Maintaining 3-D civil cell libraries, including supporting and developing additional civil cells;

BDE PROCEDURE MEMORANDUM 17-17

November 30, 2017

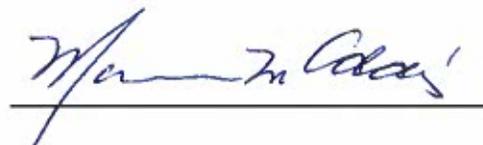
Page 2

- Supporting survey and design CADD and Geographic Information System (GIS) functions Department-wide;
- Developing and maintaining CADD drawings for the IDOT *Highway Standards*;
- Communicating CADD best practices and technological advances to district users;
- Fostering communication between software application users and developers;
- Providing research, development, and management of both CADD and GIS applications used in the scoping, programming, planning and design activities of roadway and structures improvements within the Department;
- Providing necessary CADD and GIS training across the Department; and
- Supporting innovative survey and design technologies within the Department.

Figure 1-2.A showing the BDE organizational chart has been updated to show the new Surveys, Mapping and Modeling Section and its revised Units. Also, Section 1-2.01 was updated to show the new Unit names in the Surveys, Mapping and Modeling Section and to list the Unit responsibilities.

Last, references to the former Aerial Surveys Section were changed to Surveys, Mapping and Modeling throughout the BDE Manual, specifically in Sections 4-3.01, 11-4.03, 11-5.02, 11-5.03, 11-5.04, 19-4.03, and 35-5.02. Reference Section 35-8 was also updated.

Please see the *BDE Manual* on-line to view the revisions.



Maureen Addis
Bureau Chief
Bureau of Design & Environment