

# DATA BANK MANAGEMENT CONSULTANT FOR THE ILLINOIS HIGHWAY INFORMATION SYSTEM (IHIS)

**CLIENT:**  
Illinois Department of Transportation

**CONTACT:**  
Jean Totten  
Transportation Data Bank Manager  
(847)705-4565

**CONTRACT:**  
Illinois Department of Transportation - PTB 189, Item 2

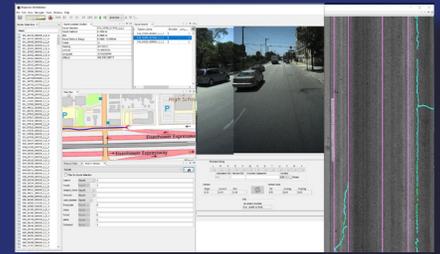
- PROJECT PURPOSE:**
- Conduct Field Collection of Roadways, Structures, Signals, and Other Conditions
  - Update and Verify Data in the Illinois Highway Information System (IHIS)
  - Assess and Submit Functional Classification Changes to District 1 Roadways
  - Develop Methodologies to Evaluate, Prioritize, and Select Pavement Projects
  - Identify Candidates for New Types of Materials and Construction Methods

DAMA Consultants, Inc., is the Prime Consultant for IDOT District 1 Data Bank Management Consultant (DBMC) - Illinois Highway Information System (IHIS)

DAMA is responsible for coordinating field collection of roadway conditions between IDOT staff, DAMA professional and technical staff, QA/QC of field collection results, and recording results in a format that is usable by IDOT applications and databases. The project tasks require DAMA staff to evaluate and interpret roadway conditions, signage and traffic control signals, structures, pavement materials, route and corridor changes, jurisdictional changes, and other changes and to identify how those changes affect existing roadway records and existing systems. DAMA evaluated roadways using video capture and LiDAR pavement condition sensing data to identify different fault conditions and calculate overall condition rating system (CRS) scores.

DAMA developed methods and processes to use IHIS and CRS sources to evaluate and prioritize IDOT pavement preservation projects. These methods used the IHIS and CRS systems and the PPS programming records to identify opportunities to utilize new types of materials and construction methods. We assessed locations, traffic volumes, existing pavement conditions, and adjacent projects to identify conditions that could affect the implementations of the selected methods. We identified more than \$550 million of projects across over 1,100 route miles and presented the project recommendations and to a committee of IDOT engineering and programming staff for including in the IDOT Multi-Year Programs.

DAMA reviewed functional classification change requests and assessed locations and roadway connections to evaluate compliance with FHWA guidelines and specifications. DAMA prepared detailed request packages for evaluation by the Springfield Central Office and the FHWA.



**TO:** Greg Runyard  
Systems Classification Manager | Planning & Systems Section  
Office of Planning and Programming  
Illinois Department of Transportation

**FROM:** Arnold Kossmann  
DAMA Consultants, Inc.  
4524 W Washington Blvd., Suite 2  
Chicago, IL 60634

**SUBJECT:** Bonnie Brook Ln. Between Green Bay Rd. and McArree Rd. in Beach Park and Waukegan

**DATE:** November 12, 2019

**0.73 miles of Bonnie Brook Ln. Between Green Bay Rd. and McArree Rd.**

**AAOT:** 1,004 (Tube Counts - September 5, 2018)

**Speed Limit:** Posted 30mph

**Request:** Reclassify from Local Road to Minor Collector

The estimated traffic count for Bonnie Brook Ln. between Green Bay Rd. and McArree Rd. on September 8, 2018, was 1,004 AAOT. This amount is below the range recommended by the 2013 FHWA Highway Functional Classification manual for Urban Minor Collectors (1,300 to 300). The roadway segment is about midway between two parallel east-west collector roadways, Yorkhouse Rd. (12,000 AAOT, Major Collector) and Blanchard Rd. (Minor Collector) that also intersect with Green Bay Rd. and McArree Rd. (see Figure 1). Google Maps estimates the distance from Bonnie Brook Ln. to Yorkhouse Rd. is about 0.4 mi; Google Maps estimates the distance from Bonnie Brook Ln. to Blanchard Rd. is about 0.4 mi. Both roadways can connect to the same destinations as Bonnie Brook Ln. Aerial and area maps do not show any non-residential destinations that can only be reached by this segment of Bonnie Brook Ln. The existing lane width for this segment appears to limit its uses to residential access.

The 24-hour traffic counts report suggests that almost half of the daily traffic (428 vehicles) uses the roadway during four consecutive 15-minute sampling periods (5-15am, 5-30am, 5-45am, and 6:00am). These four sampling periods captured about 1 hour of traffic along this segment. This pattern suggests that this roadway is not used for general traffic circulation or connectivity (see Figure 2).

**FIGURE 1. Bonnie Brook Ln. Between Green Bay Rd. and McArree Rd. in Beach Park and Waukegan**

**FIGURE 2. Portion of 24-hour traffic counts from September 5, 2018 for Bonnie Brook Ln. between Green Bay Rd. and McArree Rd. in Beach Park and Waukegan**

TOP IMAGE: Google, LCC.  
[Google Maps: Street View](#)  
Web Site. Retrieved 12 August  
2019 from maps.google.com