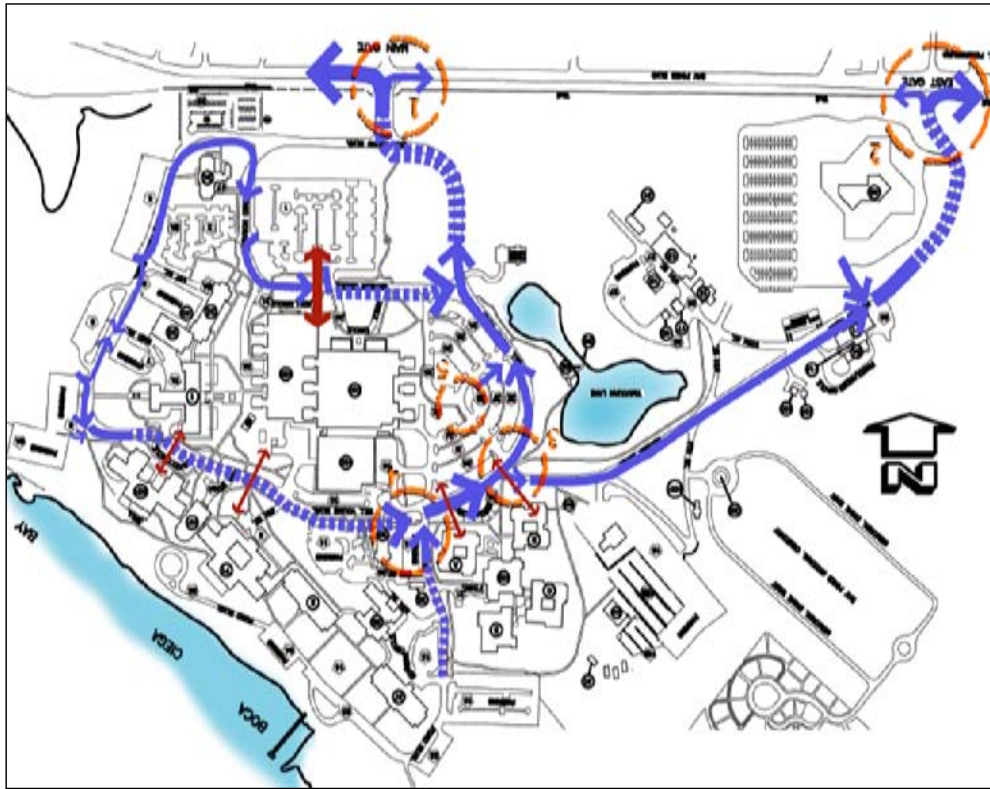


**Bay Pines Veteran Administration Traffic Study  
and Master Plan Design**  
Bay Pines, Florida



**Type:** Traffic Study and Master Plan Design

**Project:** Bay Pines VAMC Traffic Study

**City:** Bay Pines

**State:** Florida

**Client:** Bay Pines Veteran Affairs Medical Center

**Features:** DESMAN analyzed five traffic layout concepts at Bay Pines Veteran Affairs Medical Center (VAMC). The analysis considered the traffic impacts from future developments and renovations on the hospitals campus. For one of the traffic layout concepts a new access point off Bay Pines Boulevard was included.

**Summary:** DESMAN Associates has been retained to complete a traffic analysis for the VAMC located in Bay Pines, Florida. The goal of the study is to quantify the traffic impacts associated with the construction of the Mental Health Center for Excellence, the renovation of various existing buildings, and the relocation of departments and activities that are associated with this program. The study analyzed both existing traffic conditions and the future traffic operation of five traffic layout concepts. The two access points to the hospital campus and four internal intersections were examined. Future traffic mitigation improvements were recommended along with the optimal traffic layout concept.

**Kishwaukee Community Hospital Transportation  
Analysis and Master Plan Design**  
DeKalb, Illinois



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**Type:** Transportation Master Plan Design Concepts

**Project Name:** Kishwaukee Community Hospital

**City:** DeKalb

**State:** Illinois

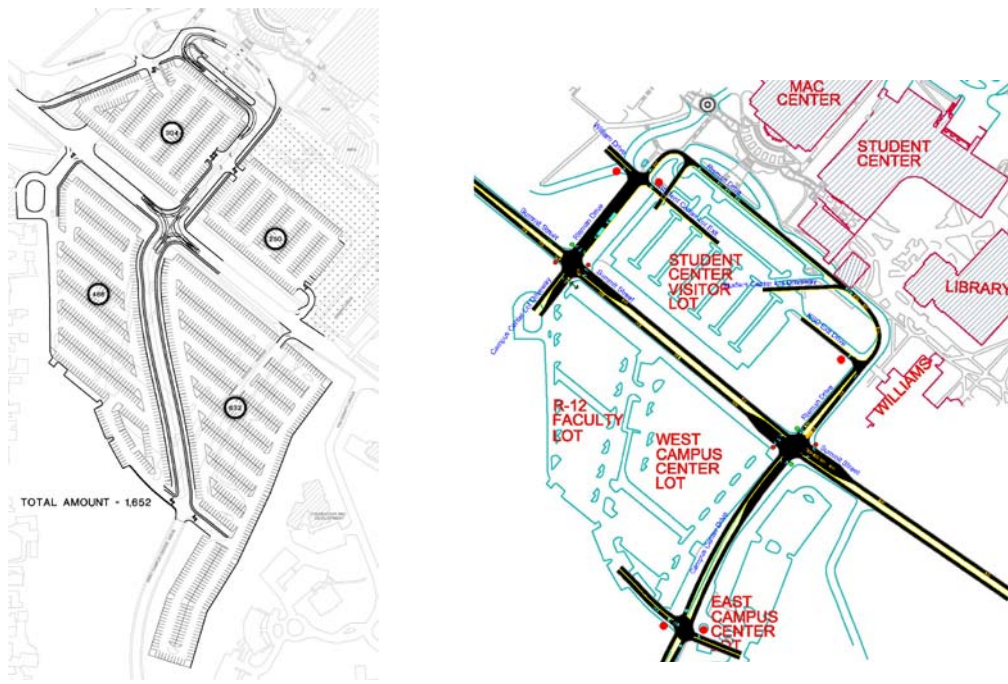
**Client:** Kish Health System

**Features:** DESMAN personnel developed a number of traffic network design concepts for the Kishwaukee Community Hospital campus. This was a planning exercise which considered future campus growth, efficient circulation of visitors/employees and providing conveniently located future parking areas.

**Summary:** DESMAN Associates was retained to perform a traffic impact analysis and develop traffic layout design concepts at Kishwaukee Community Hospital in DeKalb, Illinois. This analysis was part of a master planning effort by the Hospital to assess existing traffic conditions and prepare for future hospital growth. The effort included performing manual turning movement counts at the campus' adjacent and internal intersections. Capacity analyses were performed to assess existing traffic conditions and determine the available capacity at each intersection to support future traffic. Concept plans were created showing the layout of future internal campus roads and potential development locations. This was a planning exercise performed to reveal how much future development the campus can support and which traffic layout concepts provide convenient access to future buildings. Traffic mitigation improvements were recommended based on observations and the capacity analyses results of the surrounding intersections and access points to the hospital campus.

## Kent State University Traffic Study and Design of the Student Center and Campus Center Lots

Kent, Ohio



**Type:** Traffic Study and Layout Design

**Project Name:** Kent State University Student Center and Campus Center Lots

**City:** Kent

**State:** Ohio

**Client:** Kent State University

**Features:** DESMAN performed an analysis of the street network and drop-off/pick-up area for the Student Center Lot and Campus Center Lots to determine the effects of converting Risman Drive from a one-way street to a two-way street. Design concepts were provided which showed the layout of the street network, drop-off/pick-up area and parking lots.

**Summary:** DESMAN Associates was retained to provide traffic consulting services to Kent State University. We developed and analyzed alternative access and parking lot layout concepts for three existing parking lots. As part of this analysis, we performed peak hour manual turning counts, 24-hour traffic volume counts and parking occupancy counts. The study included assessing converting Risman Drive from a one-way street to a two-way street and the traffic impacts this change would have on the adjacent intersections. Risman Drive is an access drive to the Student Center Visitor Lot and the drop-off/pick-up area located in front of the Student Center. It services bus/shuttle drop-off/pick-up services and provides access to adjacent parking facilities. We developed two traffic layout concepts that would allow Risman Drive to operate as a two-way street and still adequately service the existing users. We also provided traffic mitigation recommendations for the surrounding intersections to support both existing and future traffic conditions with Risman Drive operating as a two-way street. A traffic simulation model was prepared to determine how the entire traffic system operates with both existing and proposed traffic network recommendations. The traffic analysis considered improving the circulation of traffic in the parking facilities, the conversion of Risman Drive from a one-way access street to two-ways, pedestrian safety, access for busses and shuttles, and improving traffic conditions along the major thoroughfare of Summit Street.