5.2.2   **IDOT Oversize/Overweight Routing Solution**

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Illinois DOT (IDOT) and GIS Solutions have been working to develop an Oversize/Overweight permit and routing solution. The system consists of two modules: 1) a web-based permit application form; and 2) a web-based routing solution. The routing solution relies on Esri's ArcGIS Server and Network Analyst Extension. The Esri Network Dataset uses Navteq streets data for its network. From this base network of roads, customer specific rules are applied to generate a navigable data layer ready for permitting solutions. The route result includes a map and text directions similar to other online "get directions"interfaces. Local roads are included in the route analysis process and restrictions are added "on the fly"based on user input. Some of the functionality includes: ability to add routing points via map click, border point or address; saving of routes for future use; capability to display street jurisdiction data; bookmarks; mileage calculator and an address locator. The application is in final testing and scheduled for deployment in January 2013.

Bio(s):
Jim Conlon, Senior Consultant of GIS Solutions, Inc., has more than 14 years of progressively responsible experience developing and managing GIS systems and projects. Over the past 12 years, Jim's primary focus has been GIS projects in transportation.

Travis Gorrie has provided on-site GIS support to the Illinois Department of Transportation (IDOT) technical staff for over 10 years. He has developed numerous applications focused on custom analytical tools, data transformation or procedures to automate and simplify the IDOT work environment. Travis is proficient in developing both internet and desktop based solutions. His extensive GIS programming experience is centered on the areas of data administration & integration, routing & transportation, and graphical presentation.

As an employee with GIS Solutions, Inc. for the last 13 years, he has worked on many high profile GIS applications providing mission critical services. Past projects include the Illinois Emergency Management Agency; Cook County (Chicago) Highway Department; Illinois Office of the State Fire Marshal; the Illinois Air National Guard; and the Springfield Police Department.

Mr. Gorrie worked closely with the IDOT Permitting Office for more than a year to develop the Oversized Overweight (OSOW) online truck permitting system. Moving from a manual, employee driven process to a purely automated system presented significant challenges in data management and workflow procedures. The coordination and close communication of the IDOT project team resulted in the highly successful implementation of the OSOW system which currently issues between 4000 - 5500 permits a week.