APEX
ENGINEERING
& MANAGEMENT, INC.

City of Frankfort
Fire & Rescue Facility


Front Elevation

Apex Engineering & Management, Inc. was retained by the architect of record, aai Architects to provide structural engineering services for this project.

The City of Frankfort wanted to maximize size and functionality of this facility on a limited budget. This was achieved through concise planning, value engineering and collaborative efforts of the City, 45th Parallel Construction Management, aai and Apex Engineering.

The facility is comprised of two areas; the truck bay and the administration area. The truck bay consists of double pitched top chord steel joist supported by reinforced masonry walls with steel lintels spanning the overhead door openings. The pitched top chord minimizes tapered insulation costs and provides adequate interior draining of the roof area. The truck bay is designed as "drive-through" with integral floor drains and sloping concrete floors.

The administration area consists of engineered wood trusses bearing on masonry exterior walls. Interior walls are a mix of masonry and light gauge metal stud.

PROJECT PROFILE

Project:	Fire & Rescue Facility
Location:	Frankfort, MI
Architect:	aai Architects Robert Sommerville, AIA
Contractor:	45th Parallel Construction Management Traverse City, MI
Project Type:	Municipal
Structural System:	CMU bearing walls Steel joist/deck roof Wood roof trusses
Building size:	(5) stall Truck Bay Administration area 9,900 SF of total area
Completion date:	June 2006


Building under construction


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11566 Richardson Rd - Traverse City, MI 49684 - 231.275.2600 Phone - 231.275.2601 Fax - www.apexem.net