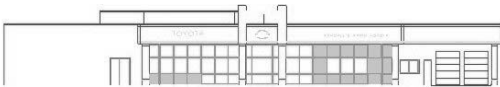


## Toyota of the Black Hills Addition & Expansion

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The remodel of Toyota of the Black Hills included construction of an office addition, remodel of the existing sales area, expansion of the maintenance repair shop, and the addition of a car wash facility.

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### Project Data

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#### Location

Rapid City, South Dakota

#### Building Type

Commercial / Industrial

#### Building Area

4000 square feet (Addition)

3000 square feet (Remodel)

#### Mechanical Systems / Features

Electric Radiant Panels  
Gas-Fired Infrared Heat  
Vehicle Exhaust Hose Reels  
Compressed Air  
Fire Sprinkler

#### Electrical Systems / Features

Perimeter Neon Accents  
Logo Signage

#### Completion Date

Scheduled for Fall, 2003

#### Architect

Thurston Design Group LLP  
[www.thurstondesign.com](http://www.thurstondesign.com)

#### Mechanical Engineering

The new addition required the relocation of several electric radiant panels and the addition of a rooftop air handling unit.

The remodel of the sales area included revisions to the existing ductwork/plumbing to accommodate new occupancy requirements. The expansion of the maintenance area included radiant tube heating systems, expansion of the vehicle exhaust extraction system and the addition of a rooftop make-up air unit with indirect-fired gas heating.

Fire protection design has resulted in a fully sprinkled building.

#### Electrical Engineering

Interior lighting was designed to match existing lighting in the expanded office, sales and maintenance areas and to accommodate the environment in the car wash facility.

The addition of the car wash facility required modification of the existing main service distribution panel and associated secondary distribution equipment. The remodel of the offices, sales and maintenance areas required rearrangement of the existing circuits.

Installation of the car wash equipment was carefully coordinated with the equipment supplier to accommodate required box and conduit locations, equipment mounting heights, clearances, electrical power connections and equipment installation requirements.