



# PETERBILT of DES MOINES

## PROJECT HVAC

# PROJECT SCOPE

## Building for a Better Workplace

ACI was contracted by the Midwest Peterbilt Group to design and build their new location in Ankeny. After several years in their Altoona location, Peterbilt had not only outgrown their space, but wanted to offer a better working environment for their employees. The new Peterbilt of Des Moines location offers air conditioning during the summer and heating during the winter.

8 in-floor heating systems were also installed to maintain comfort for Peterbilt's truck technicians. A quick-lube service bay with a walk beneath oil pit was included in the project in which we included a dedicated exhaust and HVAC system.

- Eight (8) Roof Top Units (RTU)
- 14 Variable Air Volume (VAV)
- 56,000 Square feet Building



## Sustainable Solutions



A 20,000 gallon waste oil tank was installed to collect used oil from the trucks, which is then used to fuel 3 waste oil boilers for heating water. There is also a full-size truck wash bay which includes in-floor heat, exhaust, and radiant heat.

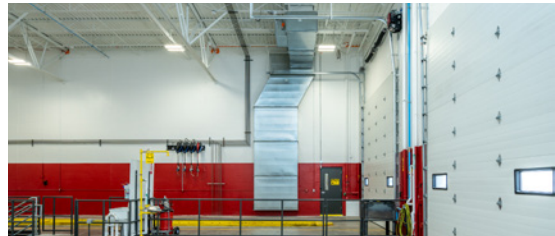


### Safety First

Each day at Peterbilt started with an ACI daily huddle. Along with daily huddles, a weekly safety toolbox talk was also conducted. Finally, quality was controlled through weekly superintendent walks with ACI's Production Manager.



Finally, the new location houses a dynamometer for tuning and servicing Peterbilt trucks. The dyno has a specialty exhaust system that ACI installed.



**Mechanical**  
Engineering **with**  
SAFETY, PASSION & INTEGRITY



# Building for Progress

Design Build was the delivery method determined to produce this great building for the Peterbilt group. Working directly for the owner, ACI was a partner in the design, layout, and preconstruction of this new facility in Ankeny, Iowa. The building construction is precast concrete with a structural steel roof. The service bays include a vehicle exhaust system that ensures the safety of Peterbilt's technicians. The showroom is tempered by exposed spiral ductwork and spiral diffusers. The spiral is painted to be an accent in the space. Preconstruction allowed ACI to prefabricate several aspects of this project, including underground plumbing, mechanical room piping, spiral ductwork with grilles, and VAV unit connections.



## Owner

MIDWEST PETERBILT GROUP



## Owner Manager

KEVIN REILLY



## Delivery Method

DESIGN BUILD



## Project Value

\$ 2,121,278



## Architect

RML ARCHITECTS



## Date Completed

JULY-2022





