

FACT SHEET

DAVENPORT HIGHWAY OPERATIONS COMPLEX

The Davenport Highway Operations Complex in District 6 began service in 1963, making the facility nearly 60 years old. The facility is no longer properly sized or arranged operationally for our current and future road network and the larger modern equipment we use.

The current facility maintains 495 lane miles, one of the highest quantities of road miles for DOT maintenance facilities in the state, and will only see the service lane miles increase in the coming years as Interstate 80 and the greater Davenport interstate and highway systems expand the lanes of use to 550 lane miles.

GOVERNOR'S
RECOMMENDATION

\$21.9 M

WHY A NEW FACILITY SHOULD BE CONSTRUCTED

The DOT conducted a statewide assessment of the highway operations complex conditions across the state to develop a prioritized list of maintenance facility conditions and recommended order of replacement based on conditions. The Davenport Highway Operations Complex was evaluated as this facility has a number of issues related to the existing maintenance facility that has placed it number one on the list of facilities to be replaced.



FIELD OFFICE

The Field Office is a separate building to the west of the maintenance facility. This structure is old and houses only a few people while requiring independent heating, cooling, sanitary, and water systems. The sewer system has had issues with slope and plugging over the last several years. Rather than a dedicated building, the functions of the new building are proposed to be incorporated into the office spaces of the new maintenance facility to consolidate resources and operational costs.



HIGHWAY MAINTENANCE FACILITY

The existing maintenance facility houses the mechanics work area, truck storage, wash area, maintenance equipment, materials lab, and resident construction engineer functions. A new facility would address multiple issues to provide for safer, more efficient operations and management.

- The exterior wall construction has no insulation to preserve heating and cooling energy. The new maintenance facility will have construction that meets current energy code requirements.
- The facility has frequent water pressure issues. The use of brine-making and truck washing at the same time can cause toilets to not flush. New water supply systems will address the issue.
- The second floor is not accessible other than by stairs from the main level. Providing a new facility with all functions on one level will meet ADA accessibility requirements.
- Many of the facility's drains are deteriorating and are a constant maintenance issue. A new facility would provide modern pit intake drains in place of the older trench drains.
- The current facility vehicles are washed within an area that also stores vehicles. A new facility would accommodate a dedicated multi-bay wash area in combination with a brine-making bay to replace an existing undersized and deteriorating standalone vinyl-sided brine-making building.
- As the Interstate system is expanded to three lanes, the facility will need additional space for equipment. A new addition or a new structure will be needed in the near future to address the current facility's deficiency.
- The inside height of the current facility limits the ability to raise truck box and safely service in a tilted position.

TYPE OF WORK THAT OCCURS AT THESE FACILITIES

DAVENPORT RESIDENT CONSTRUCTION ENGINEER OFFICE

19 EMPLOYEES

- Administers and inspects all highway construction projects for a portion of District 6 counties in eastern Iowa.
- Manages construction projects to ensure they are constructed according to specifications.
- Ensures contractors are paid properly.
- Works with property owners, utility companies, and local entities during project development and construction.
- Addresses issues during construction to bring them to a satisfactory resolution.

FIELD OFFICE

4 EMPLOYEES

- Permit issuing for work in Right of Way (ROW)
- Motor Vehicle Enforcement (MVE) Officer
- District Mechanic office
- Quad Cities area engineer

DAVENPORT MATERIALS LAB

4 EMPLOYEES

- Manages the materials testing and certification process for primary and secondary road projects for a portion of District 6 counties in eastern Iowa.
- Ensures plants producing the materials for state, county, and city highway projects have a production process and materials testing system in place that assures the materials being produced consistently meet materials specifications.
- Administers random materials tests to compare the results with the staff doing routine materials testing to ensure those technicians are following proper procedures and ensure testing equipment is properly calibrated.

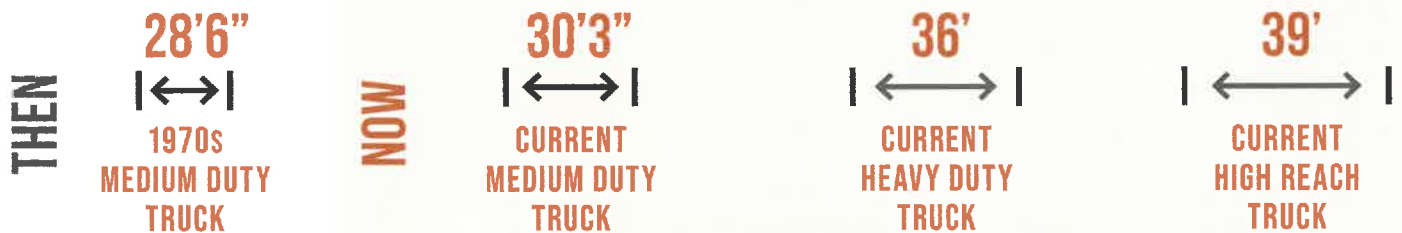
DAVENPORT MAINTENANCE FACILITY

30 EMPLOYEES

- Provides direct maintenance to 495 miles of primary roads.
- Maintenance responsibilities include portions of I-80, I-280 and I-74
- Operates and maintains the following equipment:
 - 26 snowplow trucks
 - 1 knuckle boom signing truck
 - 1 high reach truck
 - 1 grader
 - 3 tractors
 - 4 loaders
- Facility will include:
 - 42 new truck stalls
 - 4 wash stalls
 - 1 brine making stall
 - 5 mechanic stalls
 - 1 new and 2 existing storage buildings
 - 3 existing salt structures

NEED FOR A NEW HIGHWAY OPERATIONS COMPLEX IN DAVENPORT

- Truck length
 - At the time these facilities were built, the Iowa DOT only purchased medium duty trucks.



1970s medium duty truck - 28 ft. 6 in. long.



Current heavy duty truck with tow plow.



Current high reach truck - 39 ft. long.

NEED FOR A NEW HIGHWAY OPERATIONS COMPLEX IN DAVENPORT (CONTINUED)

- Now deploy one tow-plow and will be increasing to four tow plows, each of these is 34 ft. in length.



Tow plow truck fully deployed on a heavy duty truck.



Crowding limits service space and safe egress.



Structural columns and foundations are beginning to deteriorate.



Older style trench drains create concrete floor and sewer maintenance problems.

