



CUSTOMER

**Logistics / Supply Chain
Management Company – Redford, MI**

PROJECT

Facility Layout Optimization

OVERVIEW

A Logistics / Supply chain management company had a problem and turned to Design Systems, Inc. for help. They needed assistance with creating an optimized facility that included optimal storage locations based on daily usage and delivery frequencies and also maintain their current manpower counts. They also needed help with determining areas of congestion and seeking opportunities for LEAN processes to increase throughput and minimize operator walk time in the facility.

APPROACH

Our team took a phase based approach that was planned out and agreed upon before arriving onsite. The objective was to create a baseline assessment of current dock and storage capacity levels and verify manpower requirements. Using the data provided by the customer, the DSI team was able to create the baseline requirements and a PFEP to drive the future state improvements for efficiency. Phase two took the findings from phase one and worked with the customer to develop the future state layout that optimized floor space and the business units footprint while increasing throughput without increasing manpower.

BOTTOM-LINE RESULTS:

85% UTILIZATION EFFICIENCY

DSI increased the utilization efficiency to the optimal 85% target set by the customer.

31% REDUCTION IN TRAVEL DISTANCE

Our team reduced the travel distance from 281,000 ft. per shift to 194,000 ft. per shift.

NO MANPOWER IMPACT

We were able to increase utilization efficiency and throughput in the facility without increasing manpower levels.

