

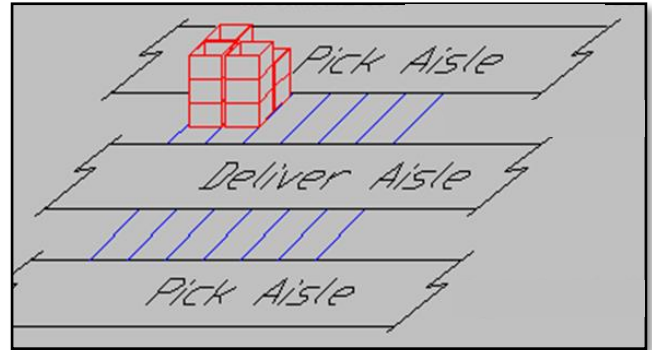
DESIGN SYSTEMS, INC.

Manufacturing Engineering & Consulting

Material Handling Impact Study of New Truck Production AUTOMOTIVE VEHICLE MANUFACTURER

Project Description

An automotive vehicle manufacturer wanted to evaluate the impact of material flow with the addition of new truck production. A storage analysis, dock analysis, congestion analysis, and material handling and flow analysis was conducted to obtain requirements for the future state of the facility. The results of the study served as a guide to what may need to be changed or considered when including the new production line

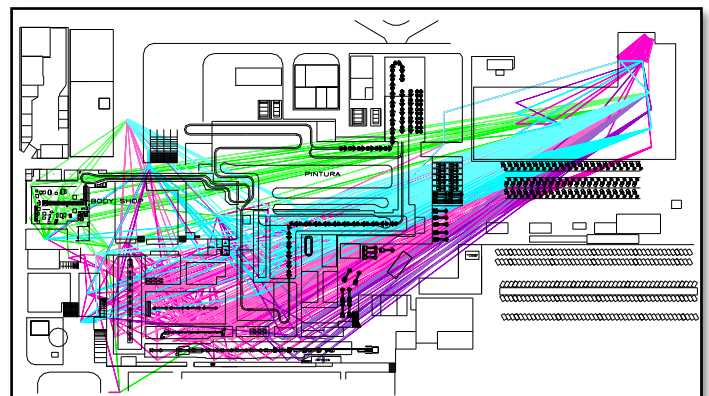


Client Objectives

- Gather baseline data and information to perform the various analyses
- Conduct a material flow analysis to determine the transportation methods and equipment of material
- Conduct a storage analysis to estimate the amount of space needed for the increase of part density and inventory levels
- Conduct a dock analysis to determine minimum number of docks needed
- Conduct a congestion analysis to identify aisles and areas of heavy traffic

PROJECT OUTCOMES

- Confirmed that existing storage areas plus a new warehouse is sufficient for future productions with decreased inventory levels
- Determined the number of receiving docks needed for the new warehouse
- Established Material handling equipment type is needed for the new production.
- Identified current areas of congestion and future areas based on increase of production levels
- Provided recommendations outside of the analyses to help support the increase of production



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