

SYGMA NETWORK, INC.

SOUTH PARKING LOT IMPROVEMENTS



Location

Danville, Illinois

Timeline

2016

Contractor

Midwest Asphalt Company



For the past 16 years, SYGMA's food service distribution center has handled 45 semi-trucks daily. The company needed to remedy significant and costly deterioration of the pavement, and slope and drainage issues which led to frequent flooding and icy winter conditions.

Scope of Work:

- Removal/Replacement of approximately 13,000 square yards of pavement
- Modification of pavement slopes to improve surface drainage and reduce icing in the winter
- Installation of approximately 900 feet of combination underdrain and storm sewer (12" – 30")

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Before



After



The Challenges:

1. Minimal surface grades and poor stormwater conveyance.
2. Significant pavement deterioration throughout the parking lot (pot holes, rutting, cracking).
3. Design required new construction to fit in the same footprint of existing parking lot.
4. Detailed construction sequencing and staging plan to ensure facility remained fully operational.

Solutions provided by C2:

1. Designed heavy-duty pavement with a life expectancy of 20 years to handle estimated traffic loads.
2. Modified existing pavement slopes to improve overall site drainage to reduce ponding and icing in the winter.
3. Improved stormwater conveyance by with 900 feet of combination underdrain and storm sewer (12"-30")
4. Improved rideability by eliminating pot holes, rutting, and cracking.
5. Developed detailed traffic control plan and construction sequence minimize disruption to operations at the facility.

C2 Engineers provided design, permitting, contract development, bidding, and construction engineering and observation services while adhering to the contractual project costs and schedules.

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