

Meat Plant Processing Basement Joist Repair and Strengthening

STRUCTURE: Processing Basement Joist Repairs
LOCATION: Norfolk, NE
PROJECT DATE: Summer 2001
JOB DURATION: 8 weeks
CLIENT: IBP
CONTRACTOR: Vector Construction Group



PROJECT DESCRIPTION:

Years of high humidity and warm temperatures created a perfect environment for corrosion of the reinforcing steel in the poured in place joists in the processing floor. Vector Construction was contacted to develop a repair procedure that would restore the original designed load capabilities to the floor. All work would have to be performed with no impact on the plant operations while at the same time having no reduction in head room or no additional shoring post be left in the room.



Work proceeded as follows:

1. Survey of entire room was conducted and it was determined that 77 joists would require repair.
2. In conjunction with a licensed structural engineer, stamped drawings were provided to the owner.
3. All failed concrete was removed and reinforcement bars cleaned.
4. Galvshield XP anodes were installed at the end of each repair to protect from future corrosion damage.
5. Repair areas were formed and poured back with an engineered repair material.
6. M-Brace Composite Strengthen System was installed to restore loading capacity of the floor.



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