

Project 25
DEHNE ROAD - GLENDALE AVENUE
INTERSECTION



2251 Glendale Avenue looking Southeast



2251 Glendale Avenue looking
Northeast



Dehne Road and Glendale Avenue
Intersection looking Northwest

PROJECT 25
DEHNE ROAD - GLENDALE AVENUE
INTERSECTION

Statement of Conditions:

The original drainage system consisting of ditches and culverts is generally 60 to 70 years old. The system has undergone modification that consists of intermittent sections of storm sewer. The drainage service area is $17.7\pm$ acres. The system cannot adequately convey runoff from storms of moderate to high rainfall intensities and the drainage system is undersized compared to today's standards. The downstream drainage system has similar characteristics and is considered to be sensitive to upstream projects. The flood overflow path is across Glendale Avenue and along the east side of the road and on private property located in the southeast corner of the intersection.

Problem Identification:

Street, front yard and structure flooding.

Recommended Plan:

- Reduce the risk of flood overflow across the southeast corner private property by increasing the swale capacity between the road and the property. This would be accomplished by either deepening the swale and/or re-grading the street parkway and the private property front/side yard area to increase the berm height (including private entrance modifications).
- Remove and replace 350' of old 8" corrugated metal pipe storm sewer and inlets located on the east side of the Glendale Avenue.
- Re-grade 200' \pm of the westerly road ditch to provide a positive flow path to the existing culvert under Glendale Avenue.
- Construct 330' \pm of 18" \pm storm sewer along Glendale Avenue between Bellevue Place and Techny Road to reinstate positive flow in a southerly direction (contingent upon the Techny Road project being in place).
- Add 2271 Dehne Road to Prioritized Parcel Acquisition list.

Estimated Total Cost	Construction Cost	Property Cost	Engineering Cost	B/C Ratio	Optimum Protection
\$130,000	\$113,000	N/A	\$17,000	9.25	10-yr

