

Project 12 Northbrook Manor (Spruce Street)



Illinois Road between Railroad and WFNBCR



Illinois Road at Lorenze Drive with Cattle Pass Culvert

PROJECT 12
NORTHBROOK MANOR
(Spruce Street)

Statement of Conditions:

The existing drainage system is over 50 years old. Runoff has increased due to properties being redeveloped and the system cannot convey storms of moderate to high intensities. Recent improvement projects include the Flapgate (check valve) installation, constructed in 1996 to prevent backflow into the storm sewers from WFNBCR, and the Cattle Pass Relief Swale constructed in 2001 to provide a flood overflow path around Northbrook Manor Subdivision.

Problem Identification:

Street, front yard and back yard flooding

Recommended Plan:

- Improve outlets for Maple Avenue, Oak Avenue and Illinois Road by constructing a relief storm sewer along Spruce Street from Maple Avenue southerly through Illinois Road, outletting to WFNBCR
- Consider Shermer Road Outlet project in conjunction with this project

| Estimated Total Cost | Construction Cost | Property Cost | Engineering Cost | B/C Ratio | Optimum Protection |
|-------------------------|----------------------|------------------|---------------------|--------------|-----------------------|
| \$446,000 | \$388,000 | N/A | \$58,000 | 0.07 | 10-yr |

