

Project 26
LANDWEHR ROAD - SUNSET TRAIL INTERSECTION



2300 Landwehr Road (July 23, 2011)



Sunset Trail (July 23, 2011)

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INTERSECTION

Statement of Conditions:

The existing drainage system is over 50 years old and has been modified as part of recent private property redevelopment. The Landwehr Road and Floral Drive drainage system outlet cannot adequately convey storms of moderate to high rainfall intensities from the 29± acre drainage service area. The project is located at the upper end of the South Fork of Techny Drain. Flood flows that exceed the low flow drainage system capacity result in ponding westerly on Sunset Trail, southerly of Floral Drive along the east side of Landwehr Road, and on adjacent properties. Recent photographs suggest that Sunset Trail and adjacent properties are subject to as much as a 2'± flooding depth.

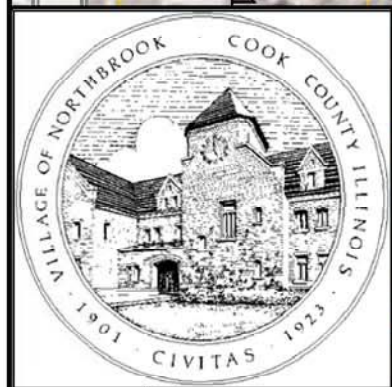
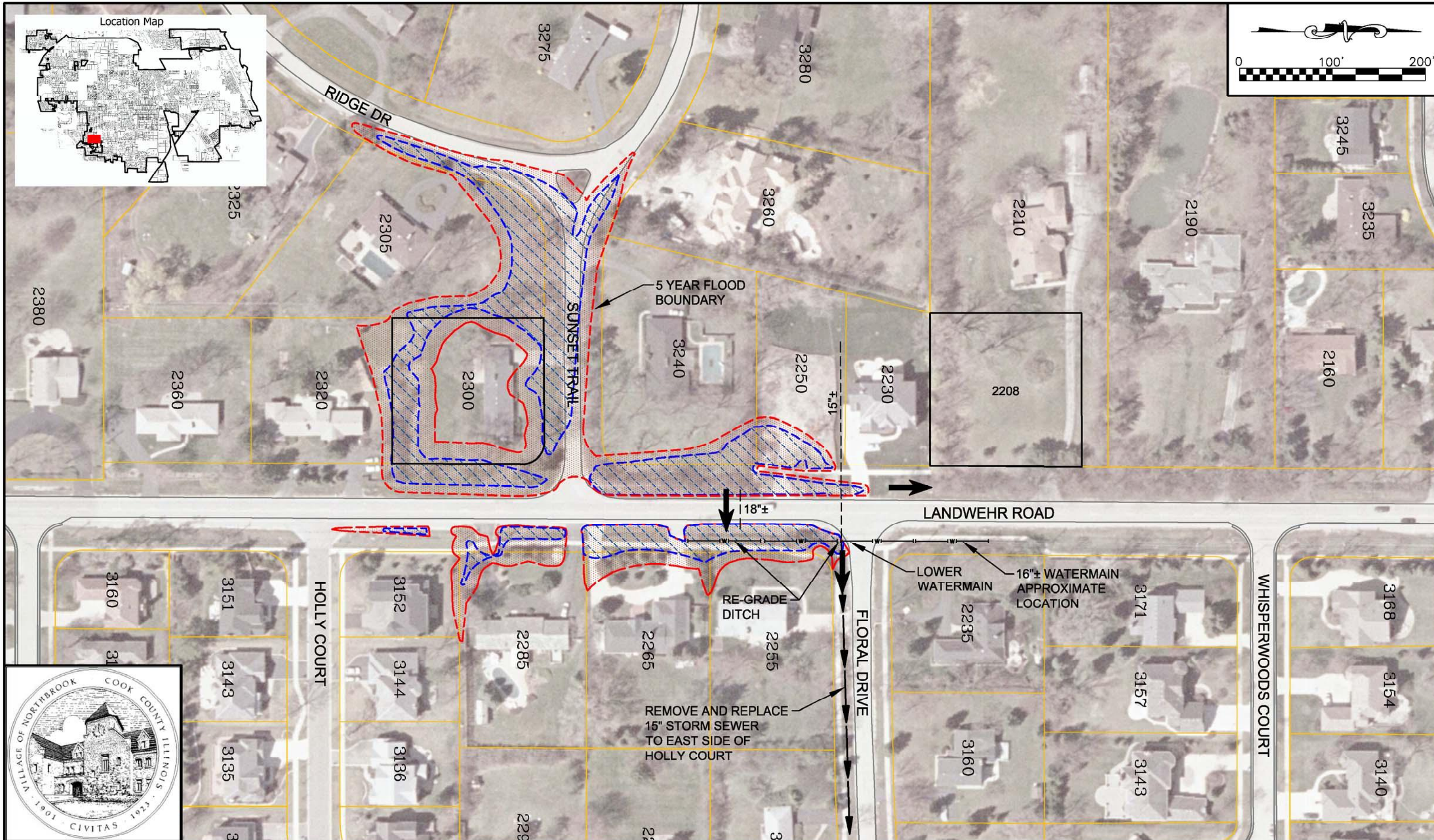
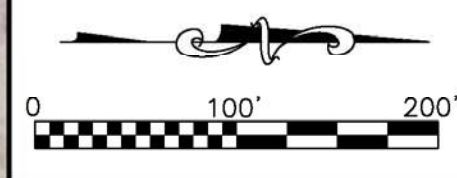
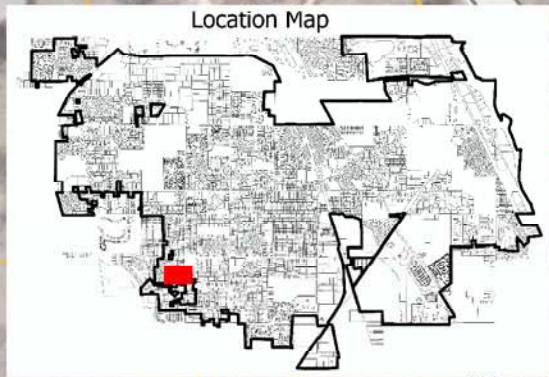
Problem identification:

Street, front yard, back yard and structure flooding.

Recommended Plan:

- Remove and replace 505'± of existing 15" storm sewer along Floral Drive between Landwehr Road and the east side of Holly Court.
- Adjust (lower) Landwehr Road east side water main as required to accommodate the lower storm sewer profile.
- Re-grade Landwehr Road east ditch to achieve positive flow to the lowered storm sewer.
- Coordinate and process permit with Cook County Highway Department for construction activities that would occur within the Landwehr Road ROW.
- Add the properties located at 2300 and 2208 Landwehr Road to the Prioritized Parcel Acquisition list.

Estimated Total Cost (w/o mitigation)	Construction Cost	Property Cost	Engineering Cost	B/C Ratio (with mitigation)	Optimum Protection
\$97,000	\$84,000	N/A	\$13,000	3.48	5-yr



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