

Figure 3.5.1

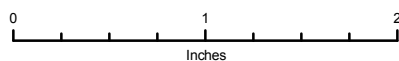
NORTH CREEK SUBWATERSHED OVERVIEW

Little Calumet River DWP

- Local Problems**
 - Bank Erosion
 - Maintenance
 - Pavement Flooding
 - Storm Sewer Flow Restriction
- Regional Problems**
 - Bank Erosion
 - Maintenance
 - Overbank Flooding
 - Pavement Flooding
 - Problem Area Identified Through Modeling
 - Candidate Structures for Floodproofing/Acquisition
 - Project Alternative Location
- River/Stream
- Municipal Boundary
- County Boundary
- DWP 100-year Inundation Area
- FEMA Floodplain**
 - Zone A; Zone AH; Zone AO
 - Zone AE



1 inch = 4,000 feet



December, 2009

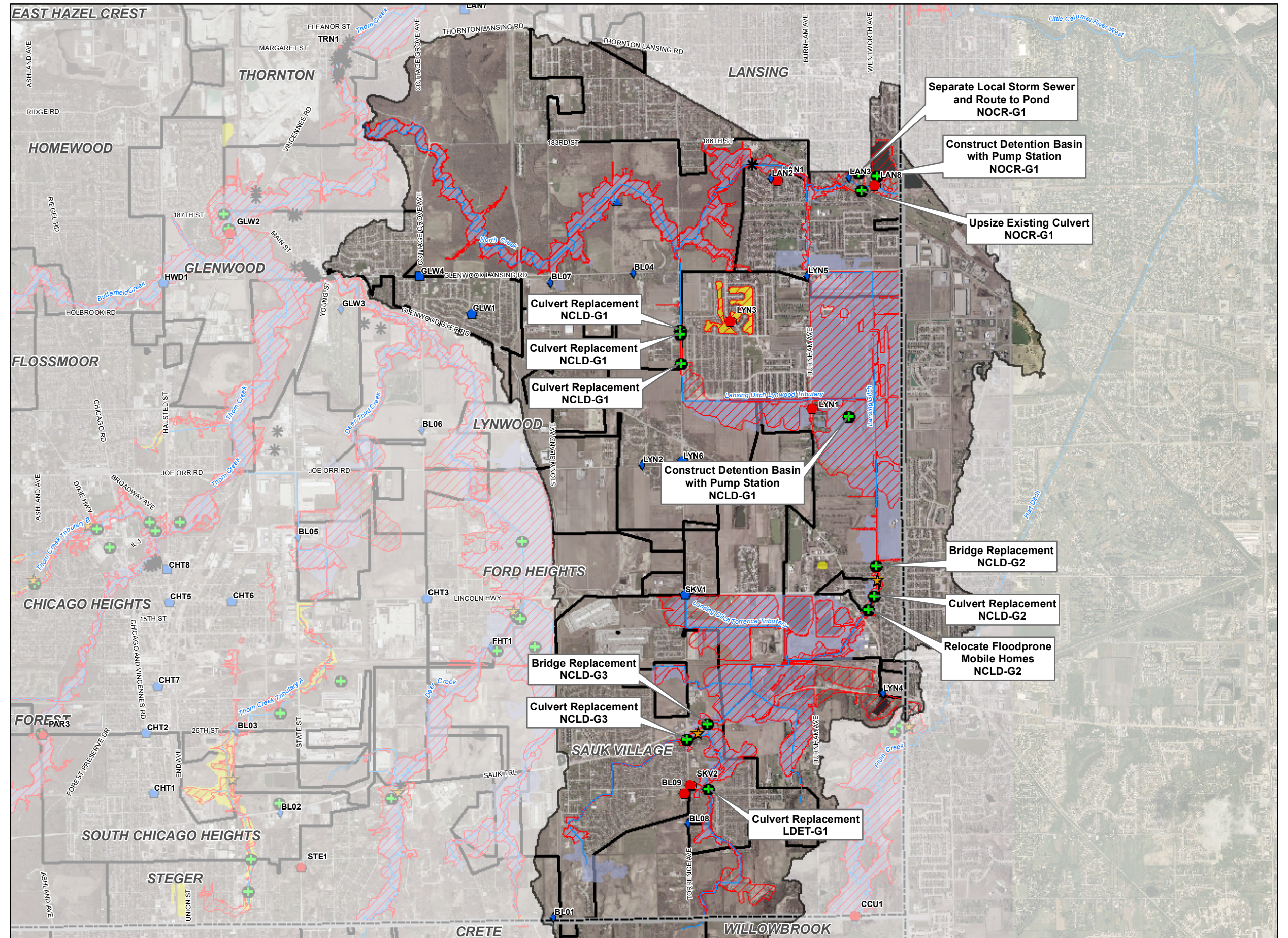


Figure 3.5.4

**NORTH CREEK
ALTERNATIVE
LDET-G1**

Little Calumet River DWP

Alternative Description:
Replace existing crossing on Katz Corner Road

Conceptual Level Cost:

\$287,000

Benefit: **B/C Ratio:**
\$82,000 0.29

* Candidate Structures for
Floodproofing/Acquisition

Regional Problems

- Bank Erosion
- ▲ Maintenance
- Overbank Flooding
- ◆ Pavement Flooding

Local Problems

- Bank Erosion
- ▲ Maintenance
- ◆ Pavement Flooding
- ◆ Storm Sewer Flow Restriction

— River/Stream

▭ Municipalities

▭ County Boundary

▭ Project Alternative Location

■ 100-year Inundation Area With Project

■ 100-year Inundation Area Without Project

0 1 2
Inches

1 inch = 250 feet



CDM

December, 2009

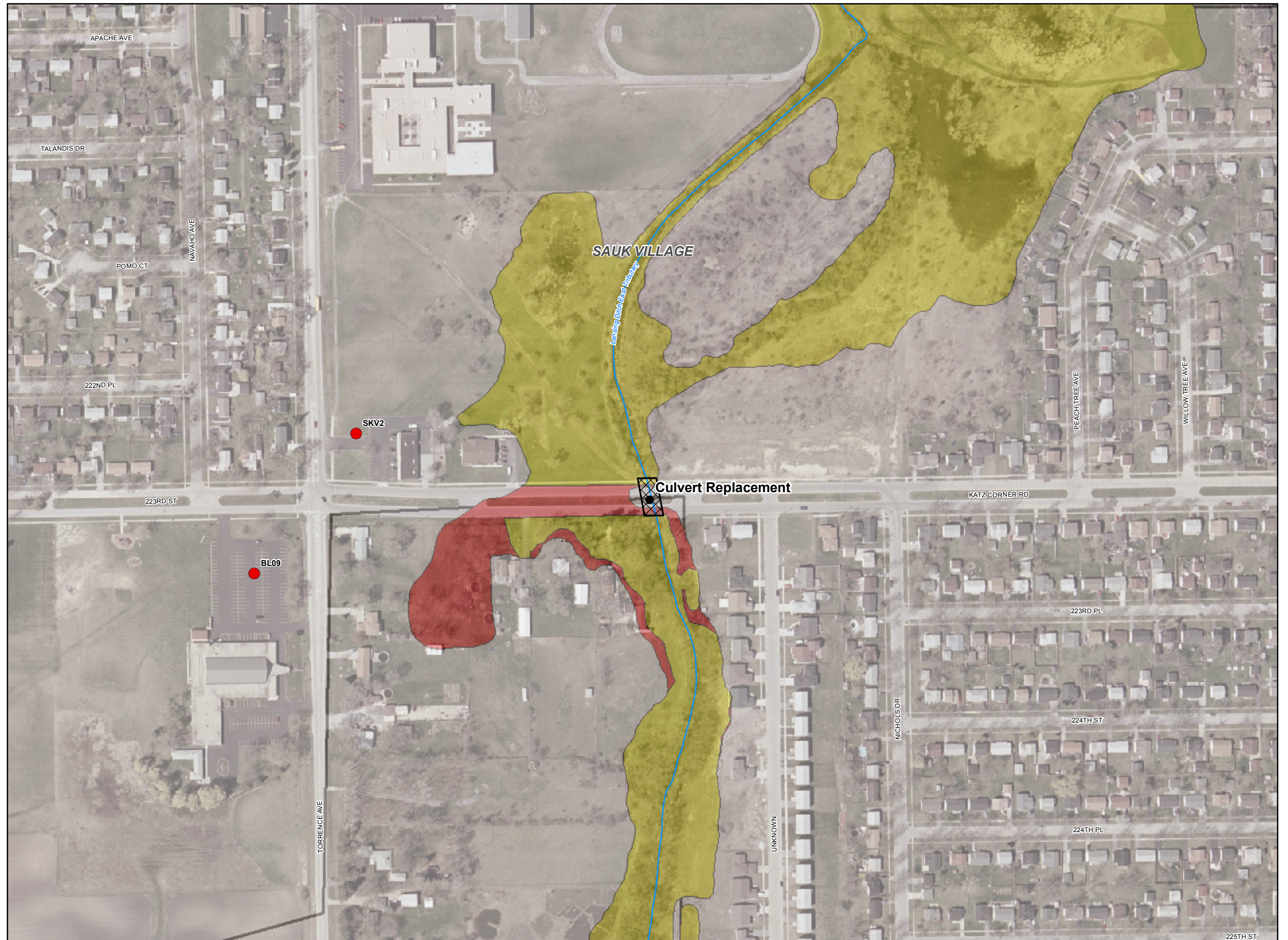
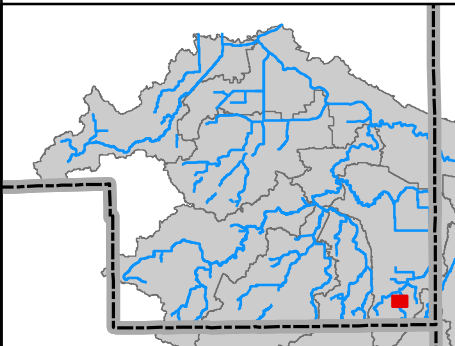


Figure 3.5.5

**NORTH CREEK
ALTERNATIVE
NCLD-G1**

Little Calumet River DWP

Alternative Description:
Construct 700 ac-ft detention facility and
replace crossings at 198th Street and
downstream private drives

Conceptual Level Cost:

\$69,500,000

Benefit: **B/C Ratio:**
\$2,364,000 0.03

* Candidate Structures for
Floodproofing/Acquisition

Regional Problems

- Bank Erosion
- ▲ Maintenance
- Overbank Flooding
- ◆ Pavement Flooding

Local Problems

- Bank Erosion
- ▲ Maintenance
- ◆ Pavement Flooding
- ◆ Storm Sewer Flow Restriction

— River/Stream

▭ Municipalities

▭ County Boundary

▨ Project Alternative Location

■ 100-year Inundation Area With Project

■ 100-year Inundation Area Without Project

0 1 2
Inches

1 inch = 750 feet



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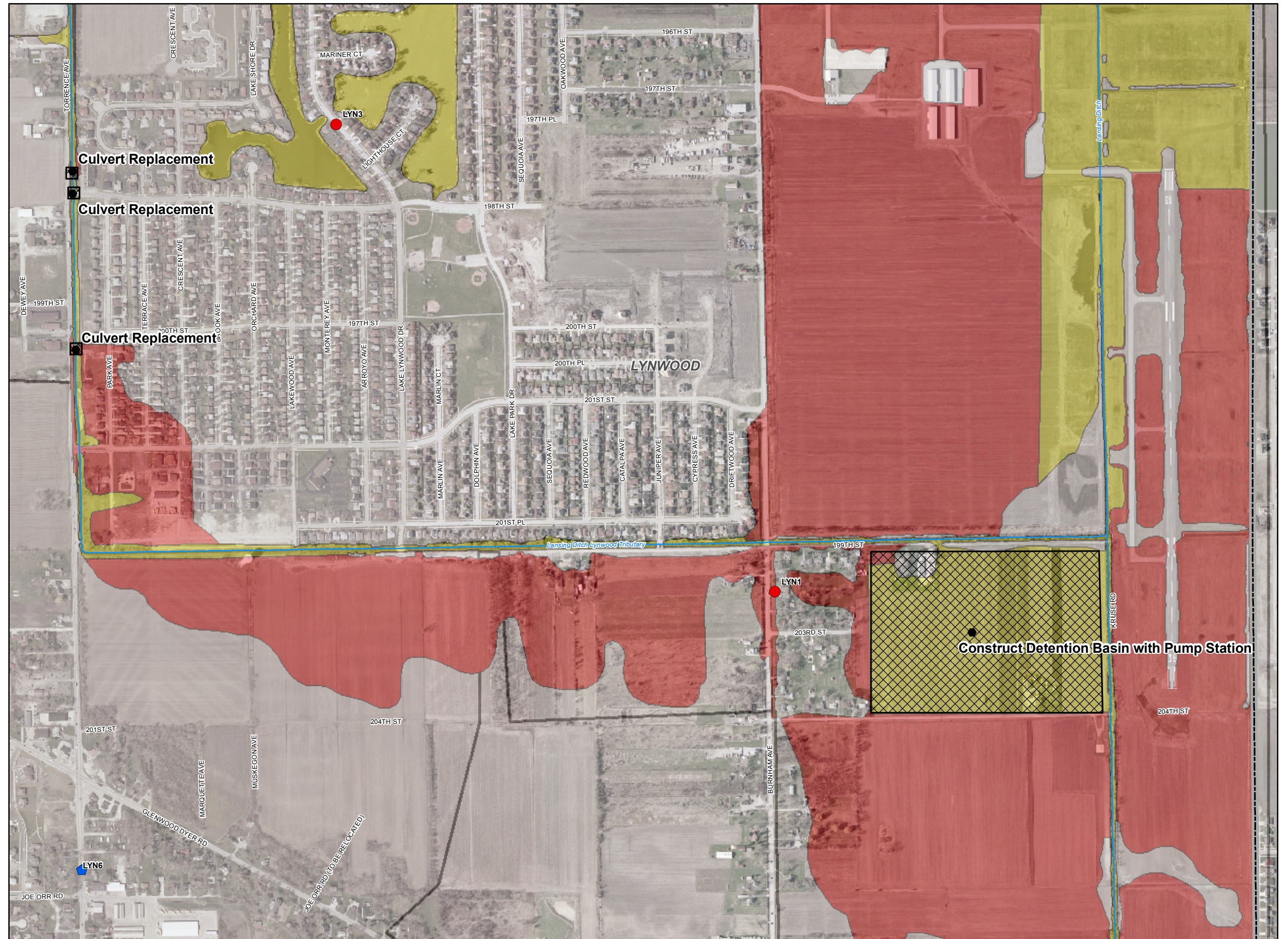
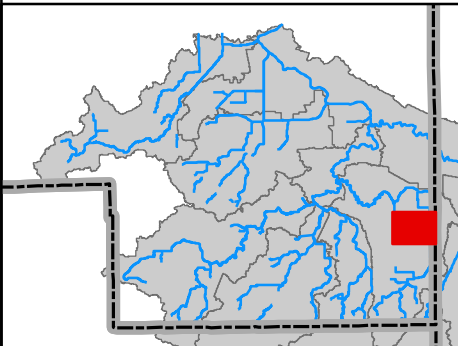


Figure 3.5.6

**NORTH CREEK
ALTERNATIVE
NCLD-G2**

Little Calumet River DWP

Alternative Description:

Replace Bridge Street and Linda Lane and relocate mobile homes

Conceptual Level Cost:

\$357,000

Benefit:

\$1,000

B/C Ratio:

< 0.01

* Candidate Structures for Floodproofing/Acquisition

Regional Problems

- Bank Erosion
- ▲ Maintenance
- Overbank Flooding
- ◆ Pavement Flooding

Local Problems

- Bank Erosion
- ▲ Maintenance
- ◆ Pavement Flooding
- ◆ Storm Sewer Flow Restriction

— River/Stream

▭ Municipalities

▭ County Boundary

▣ Project Alternative Location

■ 100-year Inundation Area With Project

■ 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet



CDM

December, 2009

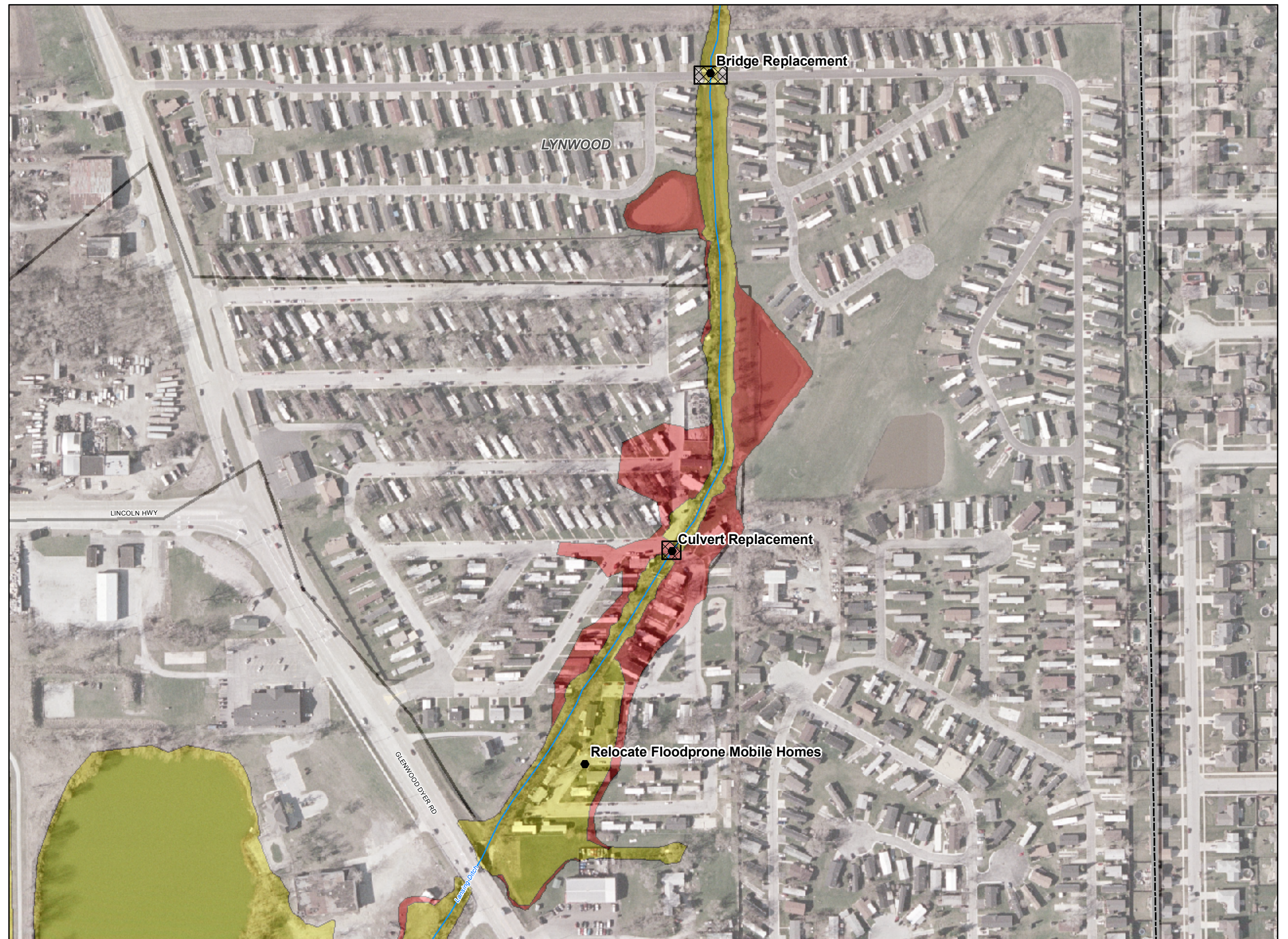
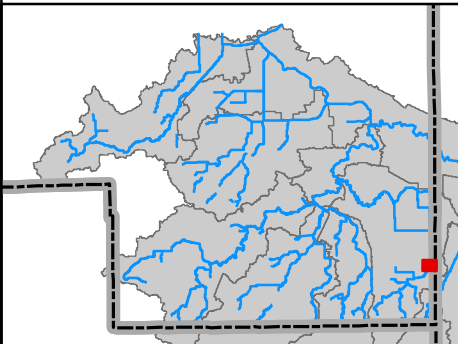


Figure 3.5.7

**NORTH CREEK
ALTERNATIVE
NCLD-G3**

Little Calumet River DWP

Alternative Description:
Replace Torrence Avenue and Sauk Trail Road

Conceptual Level Cost:

\$2,180,000

Benefit: **B/C Ratio:**
\$10,000 < 0.01

* Candidate Structures for
Floodproofing/Acquisition

Regional Problems

- Bank Erosion
- ▲ Maintenance
- Overbank Flooding
- ◆ Pavement Flooding

Local Problems

- Bank Erosion
- ▲ Maintenance
- ◆ Pavement Flooding
- ◆ Storm Sewer Flow Restriction

— River/Stream

▭ Municipalities

▭ County Boundary

▭ Project Alternative Location

■ 100-year Inundation Area With Project

■ 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet



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December, 2009

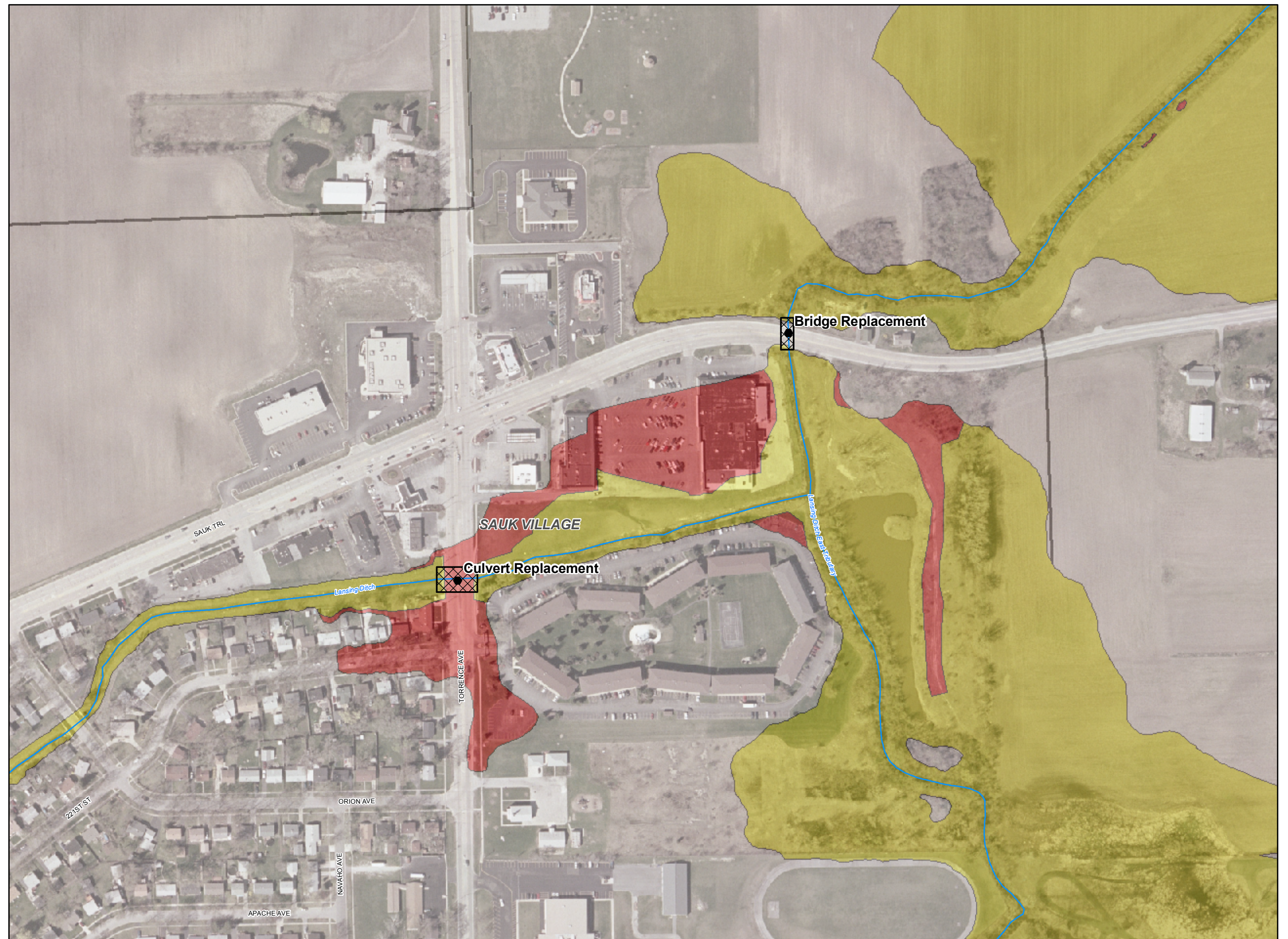
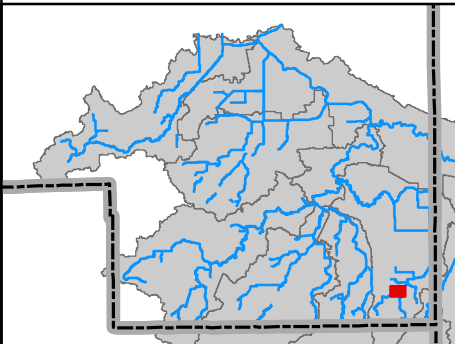


Figure 3.5.8

**NORTH CREEK
ALTERNATIVE
NOCR-G1**

Little Calumet River DWP

Alternative Description:

Replace culvert from Wenworth Avenue and Grand Truck Railroad and construct a 12 ac-ft detention facility

Conceptual Level Cost:

\$7,126,000

Benefit: \$388,400
B/C Ratio: 0.05

* Candidate Structures for Floodproofing/Acquisition

Regional Problems

- Bank Erosion
- ▲ Maintenance
- Overbank Flooding
- ◆ Pavement Flooding

Local Problems

- Bank Erosion
- ▲ Maintenance
- ◆ Pavement Flooding
- ◆ Storm Sewer Flow Restriction

— River/Stream

▭ Municipalities

▭ County Boundary

▭ Project Alternative Location

■ 100-year Inundation Area With Project

■ 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet



CDM

December, 2009

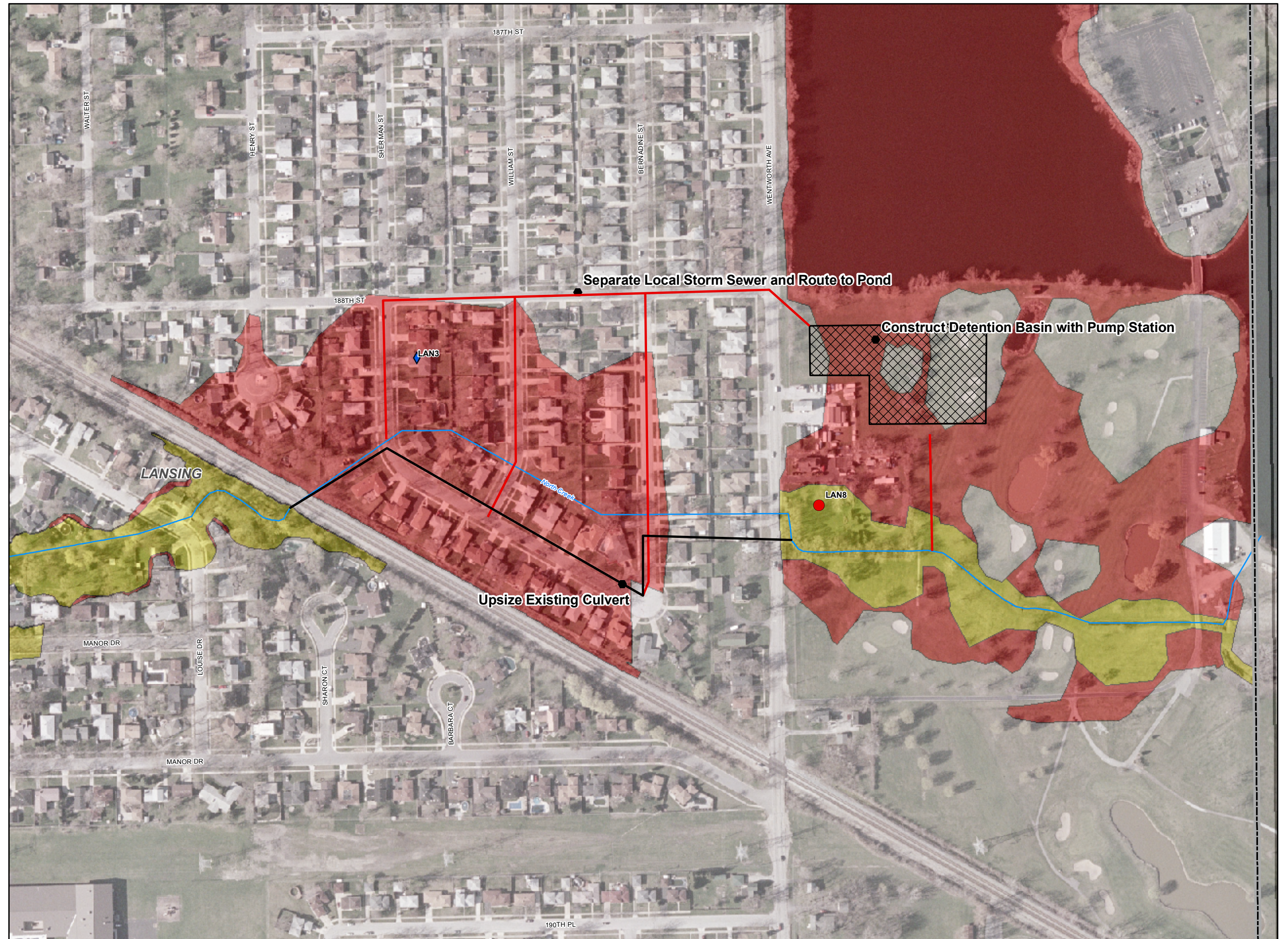
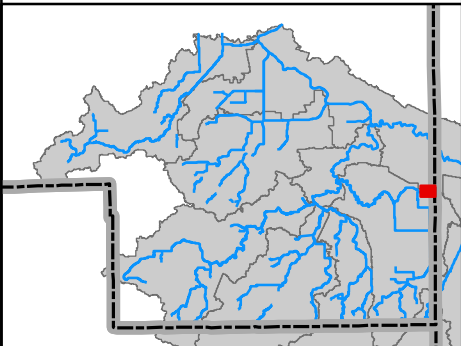


Figure 3.6.1

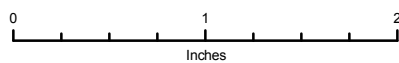
PLUM CREEK SUBWATERSHED OVERVIEW

Little Calumet River DWP

- Local Problems**
- Bank Erosion
 - Maintenance
 - Pavement Flooding
 - Storm Sewer Flow Restriction
- Regional Problems**
- Bank Erosion
 - Maintenance
 - Overbank Flooding
 - Pavement Flooding
 - Problem Area Identified Through Modeling
 - Candidate Structures for Floodproofing/Acquisition
 - Project Alternative Location
- River/Stream
- Municipal Boundary
 - County Boundary
 - DWP 100-year Inundation Area
- FEMA Floodplain**
- Zone A; Zone AH; Zone AO
 - Zone AE

N

1 inch = 1,000 feet



December, 2009

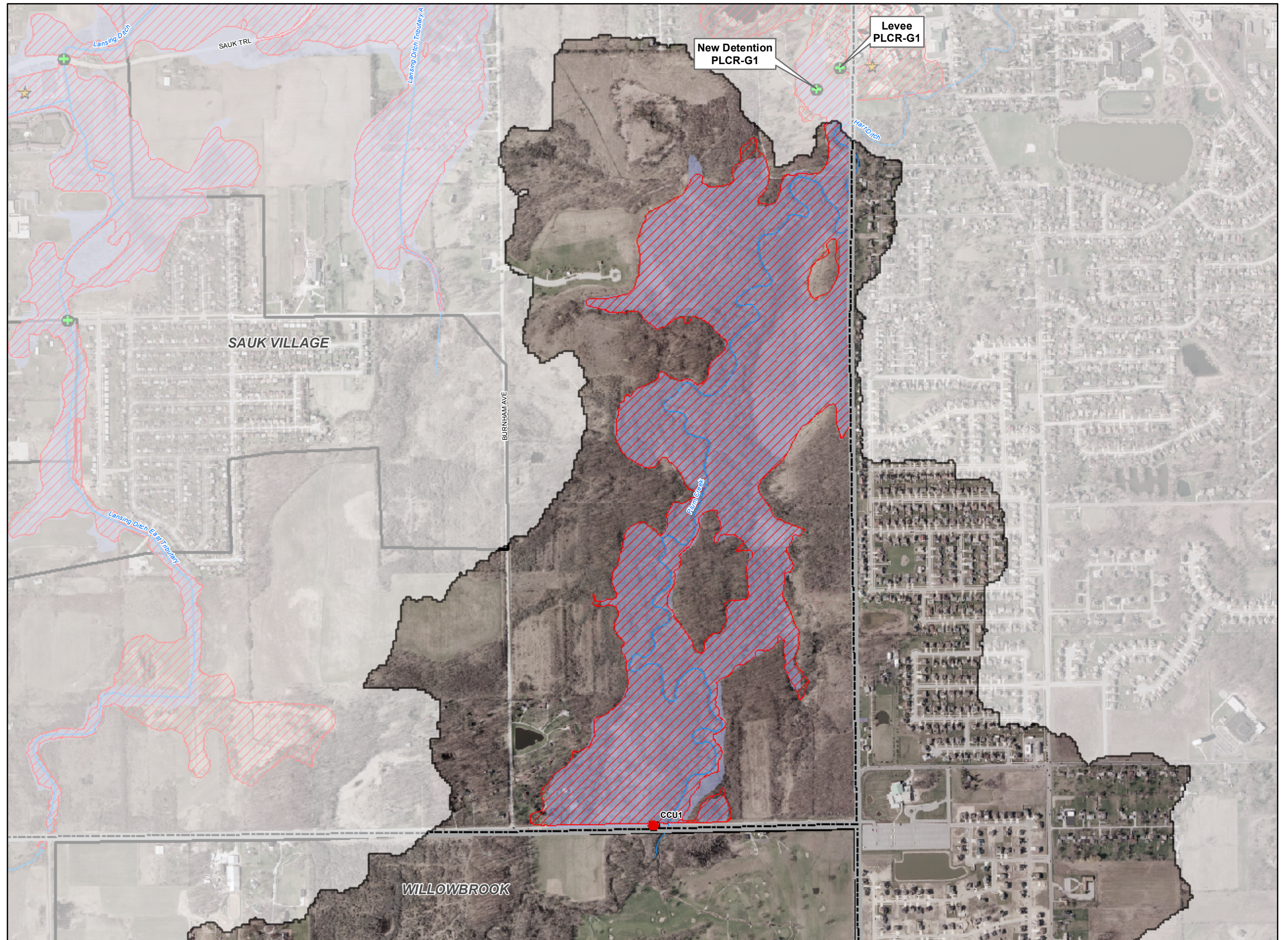


Figure 3.6.5

**PLUM CREEK
ALTERNATIVE
PLCR-G1**

Little Calumet River DWP

Alternative Description:

Construct a levee with a compensatory storage

Conceptual Level Cost:

\$3,803,000

Benefit: **B/C Ratio:**
\$2,781,000 0.73

* Candidate Structures for Floodproofing/Acquisition

Regional Problems

- Bank Erosion
- ▲ Maintenance
- Overbank Flooding
- ◆ Pavement Flooding

Local Problems

- Bank Erosion
- ▲ Maintenance
- ◆ Pavement Flooding
- ◆ Storm Sewer Flow Restriction

— River/Stream

▭ Municipalities

▭ County Boundary

▨ Project Alternative Location

■ 100-year Inundation Area With Project

■ 100-year Inundation Area Without Project

0 1 2 Inches

1 inch = 250 feet



CDM

December, 2009

