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STORMWATER MANAGEMENT



APRIL 2013 FLOOD

- On April 17 and 18, 2013, Northeastern Illinois saw widespread rainfall totals of 5.55 inches over a 24-hour period, according to data measured at O'Hare International Airport.
- However, the central and eastern portions of DuPage County were hit with more than 7 inches of rain during that period with the heaviest coming down in a 15-hour window.
- This flood caused approximately \$97 million in private and federal insurance, grants, assistance and loans for property repairs, projects and other mitigation activities, including substantial amounts from:
 - HUD
 - FEMA



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APRIL 2013 FLOOD



Village of Lisle, April 2013



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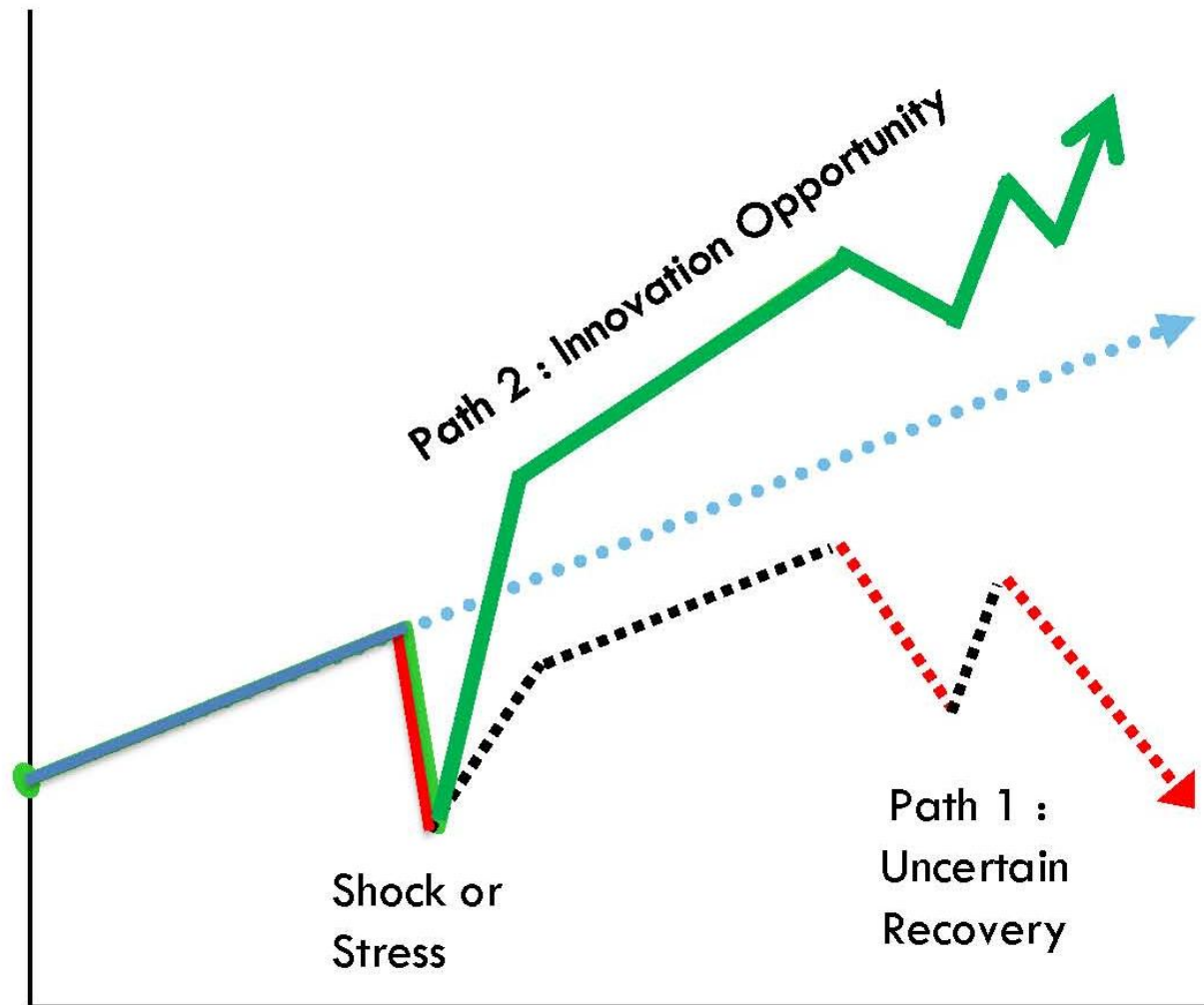
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HUD FUNDING

- HUD Community Development Block Grant (CDBG) Funding:
 - Disaster Recovery
 - Formula-based
 - DuPage received \$31.5 million
 - National Disaster Resilience Competition (NDRC)
 - Competitive grant process
 - 67 eligible applications
- NDRC awards total up to \$1 billion to eligible applicants.
- Competition involves two phases:
 - Phase 1: Asked to demonstrate unmet needs
 - Phase 2: Asked to design a resilient project/programs



RECOVERY VS. RESILIENCE



Shocks and stresses can bring opportunities for places to evolve and in some circumstances transform.

- Provides **benefits** under normal times
- Allows states, counties, and cities to **recover faster**

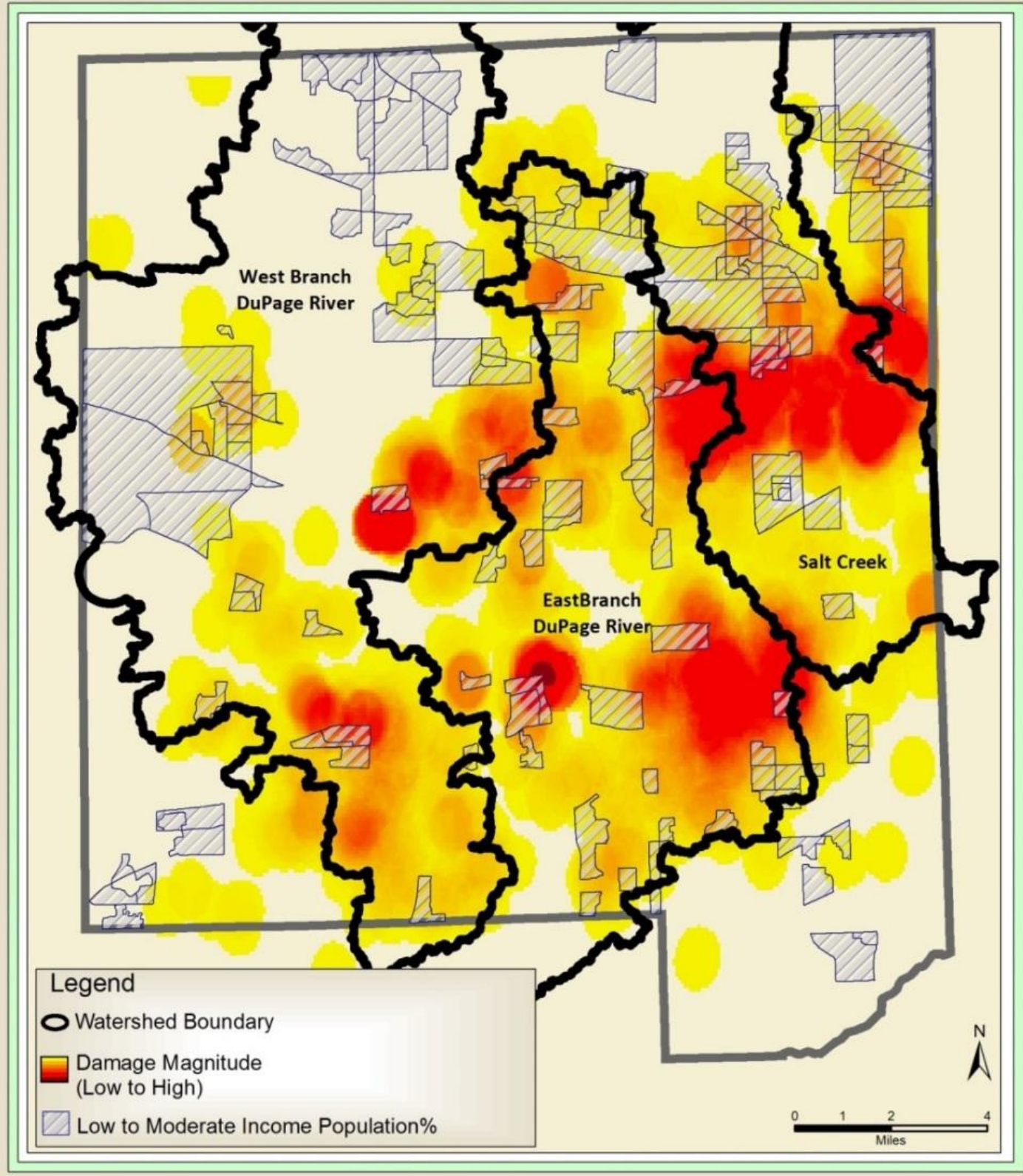


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Damage Magnitude - April 18, 2013



COMMUNITY ENGAGEMENT

- During NDRC, DuPage County locally:
 - Convened a steering committee including public, private and non-profit partners;
 - Hosted 7 community meetings;
 - Held 2 public hearings;
 - Engaged 80 local non-profit organizations; and
 - Received 700 responses to a residential survey.



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COMMUNITY ENGAGEMENT



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REGIONAL

ENGAGEMENT

- During NDRC, DuPage County was an integral member of the Northeastern Illinois Resilience Partnership, which also consisted of the State of Illinois, Cook County, City of Chicago.
- During Phase 1, the group convened 10 regional meetings with stakeholders representing 79 organizations, including:
 - 27 non-profit and community based organizations;
 - 24 public sector agencies;
 - 19 businesses;
 - 6 research institutions;
 - 3 local foundations; and
 - 40 additional organizations during Phase 2.



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EAST BRANCH STUDY

- Culmination of this outreach was the East Branch DuPage River Watershed & Resilience Plan.
- The Watershed Plan includes:
 - Unmet needs from April 2013 flood;
 - Flood-prone area identification;
 - History and demographics;
 - Conceptual projects at the local and regional levels; and
 - Water quality components.



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EAST BRANCH STUDY

- The Plan identified top three areas impacted by the April 2013 flood within:
 - Village of Lisle
 - Village of Downers Grove
 - Village of Glen Ellyn
 - Village of Westmont
- DuPage County then assessed factors to determine most vulnerable, including:
 - Per capita income;
 - Poverty levels;
 - Unmet recovery needs from April 2013;
 - 100-year floodplain; and
 - Areas of known repetitive floodplain.



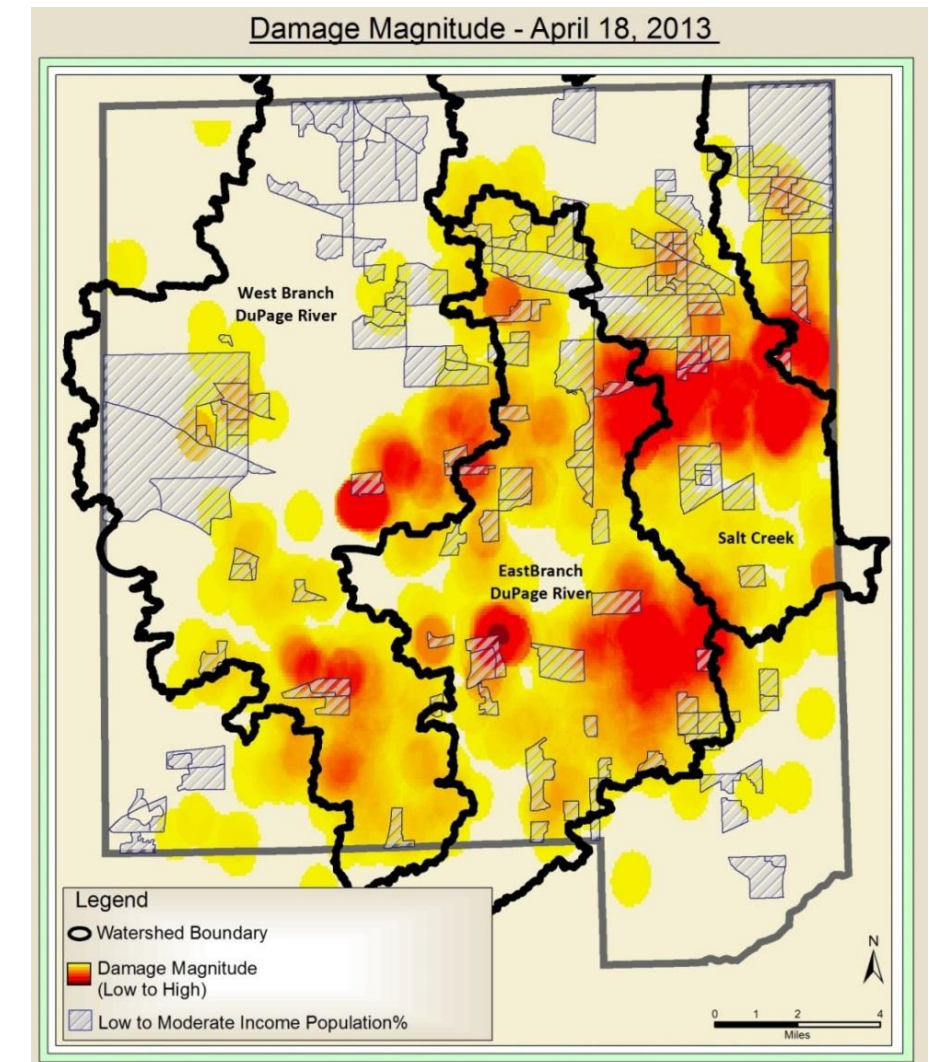
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EAST BRANCH STUDY

- The Village of Lisle was identified as being the most impacted and distressed from the April 2013 flood.
- DuPage County then began focusing on flood control projects in Lisle, specifically at the confluence of:
 - East Branch DuPage River
 - St. Joseph Creek

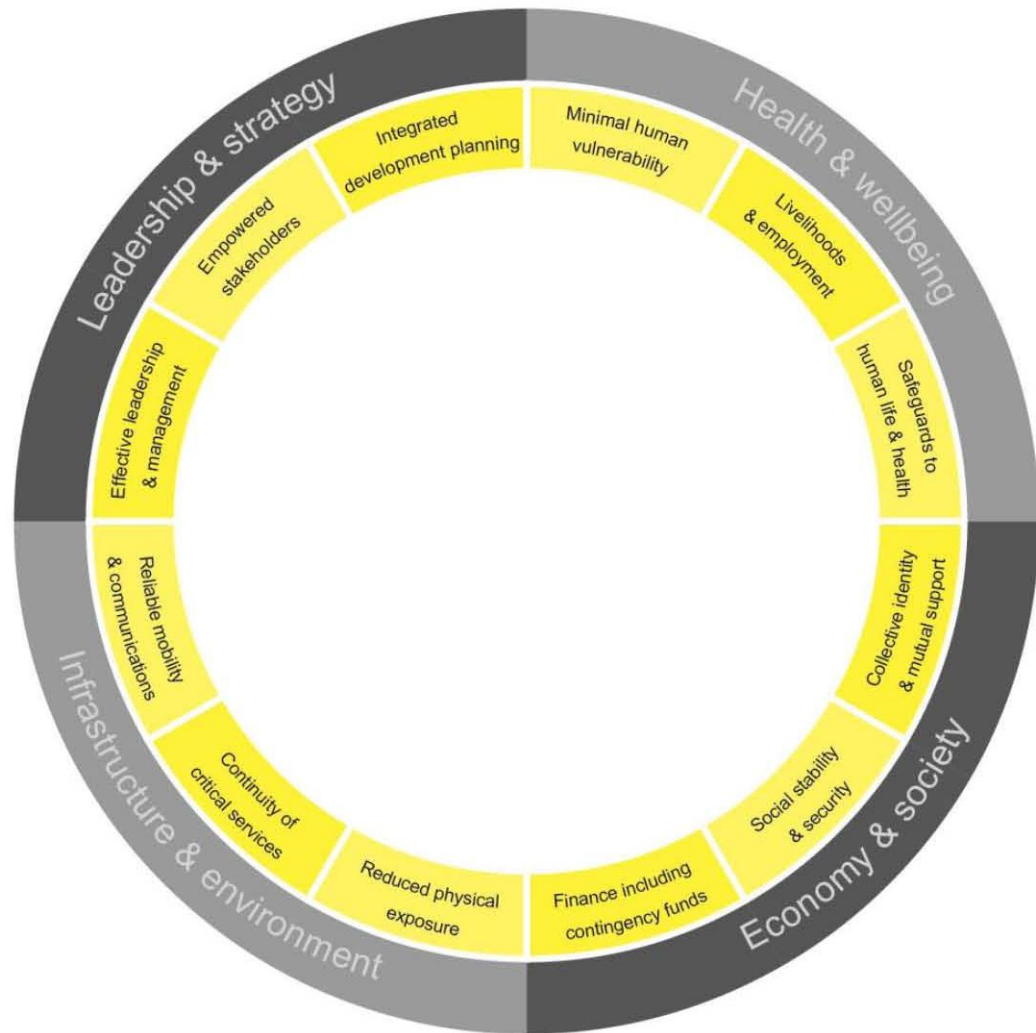


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RESILIENCE FACTOR



The Community Resilience Framework helps guide the process of establishing stronger communities. It ensures all of the moving pieces are working together toward the end goal of resilience.



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PROJECT OPTIONS

1. Keep the levee at current level of protection.

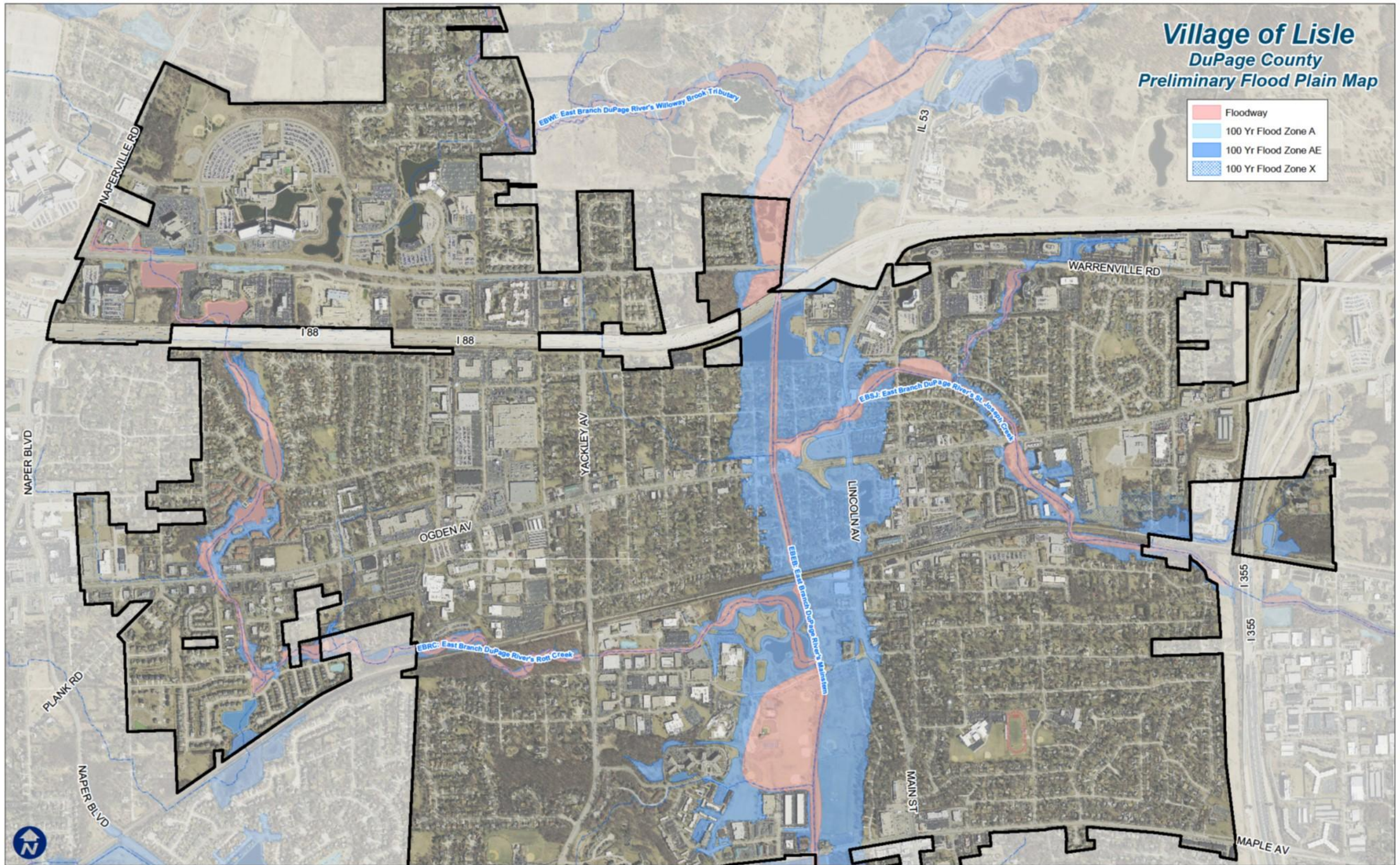


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Village of Lisle DuPage County Preliminary Flood Plain Map



PROJECT OPTIONS

1. Keep the levee at current level of protection.
2. Improve the levee to a FEMA certified degree of protection.

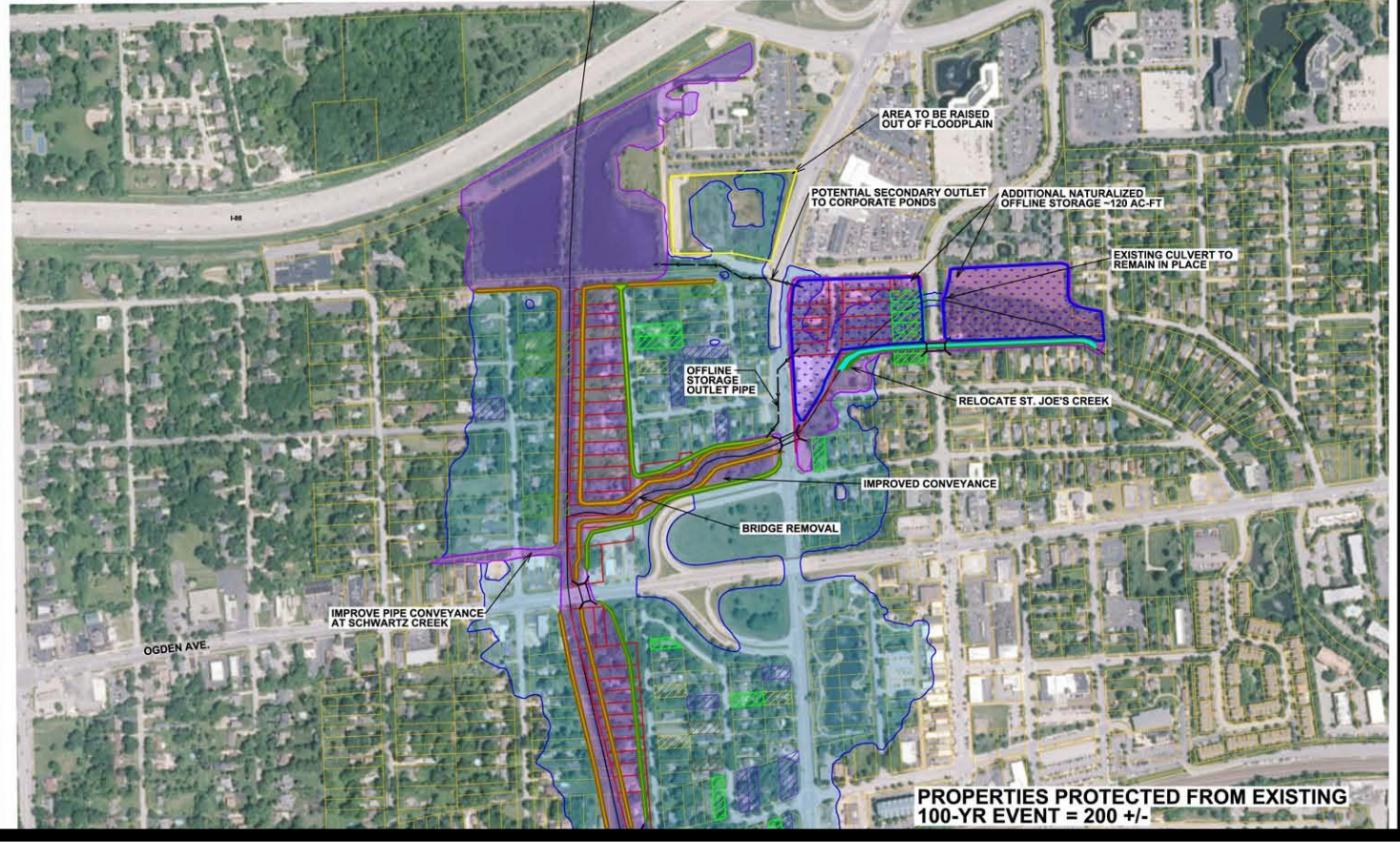


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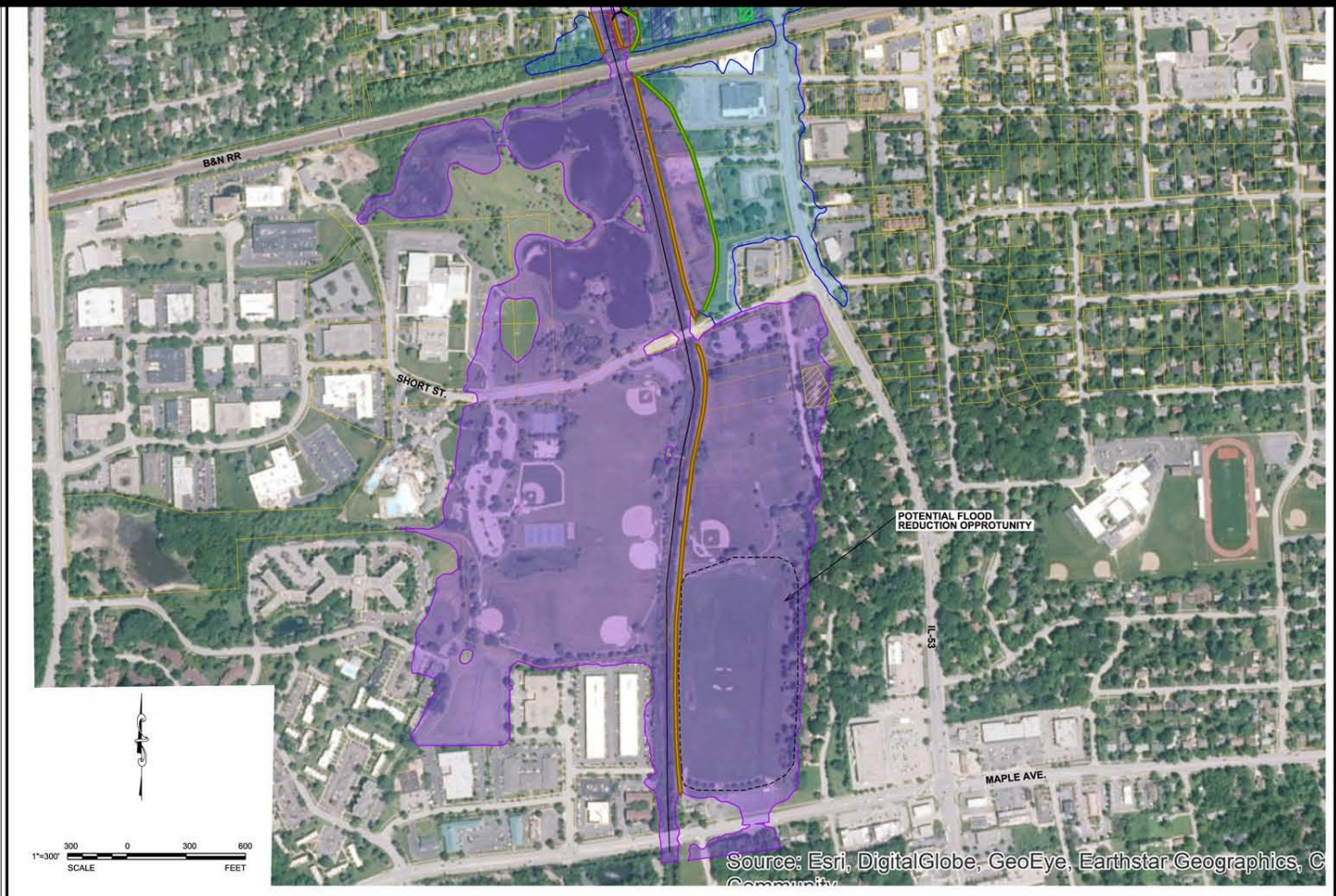
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- PROPOSED LEVEE (1961 ELEVATION)
- EXISTING LEVEE
- PROPOSED 100-YR INUNDATION (EQ MAX WSE)
- EXISTING 100-YR INUNDATION (REGULATORY FIS BFE)
- CDBG-DR_LowIncome (5)
- CDBG-DR_StrategicBuyouts (11)
- LISLE_HMGP (14)
- DUPAGE COUNTY_HMGP (2)
- LISLE_HMGP_ALTERNATES (15)
- CURRENT CONCEPTUAL BUYOUTS (56)



MATCH

MATCH



00	CONCEPTUAL RESILIENCY IMPROVEMENTS			PROJECT NO: 15109	DESIGNED BY: DLM	SCALE:	REVISIONS		 V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	
	EAST BRANCH DUPAGE RIVER RESILIENCY			FILE NAME: ProEastBranch	DRAWN BY: BAO	ILLINOIS	NO.	DATE		DESCRIPTION
				ORIGINAL ISSUE DATE: 7/10/2015	CHECKED BY: GVW	1"				

PROJECT OPTIONS

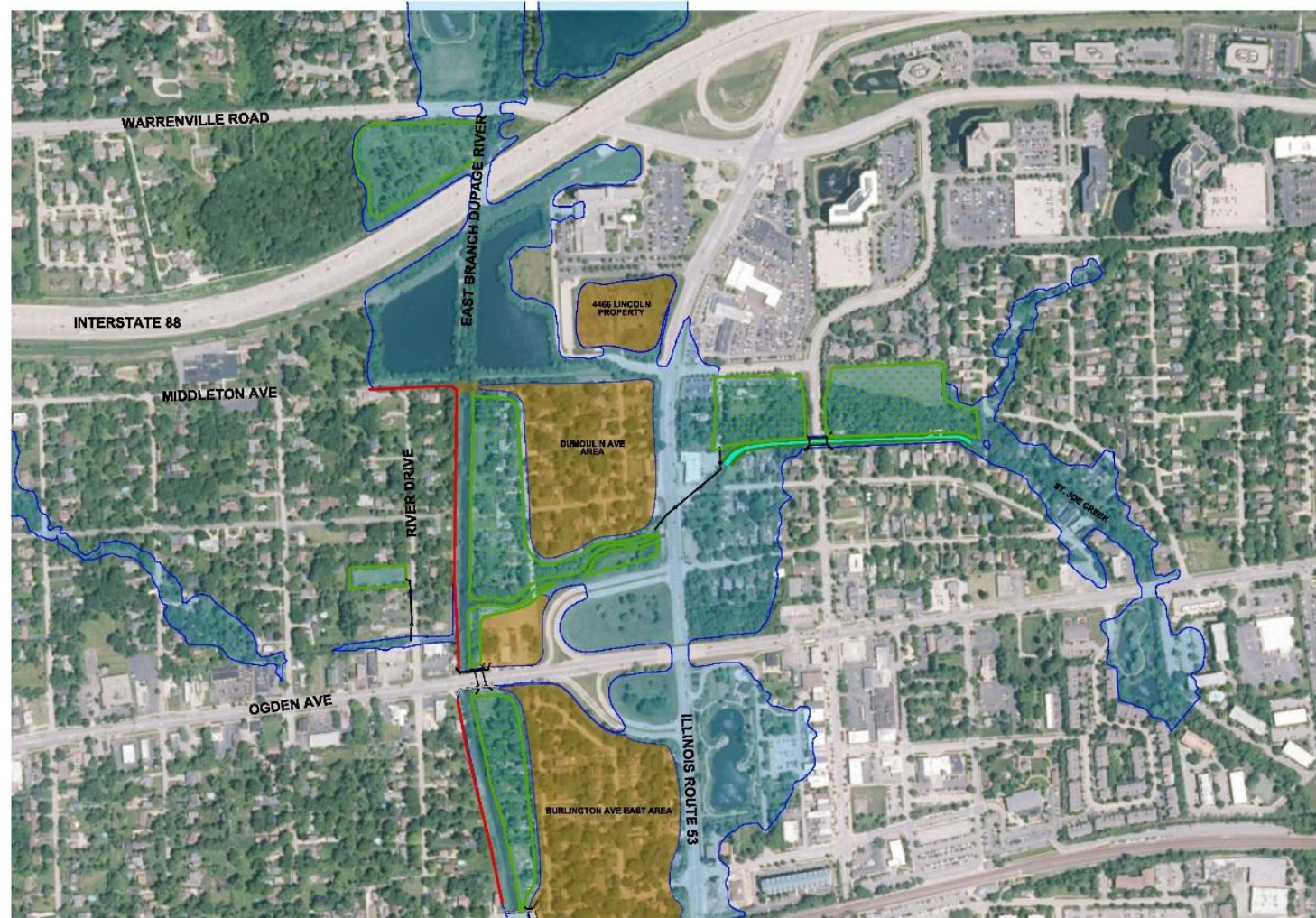
1. Keep the levee at current level of protection.
2. Improve the levee to a FEMA certified degree of protection.
3. Raise the land adjacent to the East Branch to a FEMA certified degree of protection.



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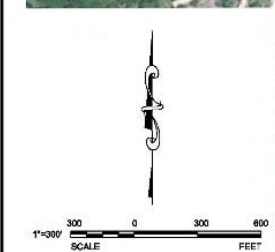


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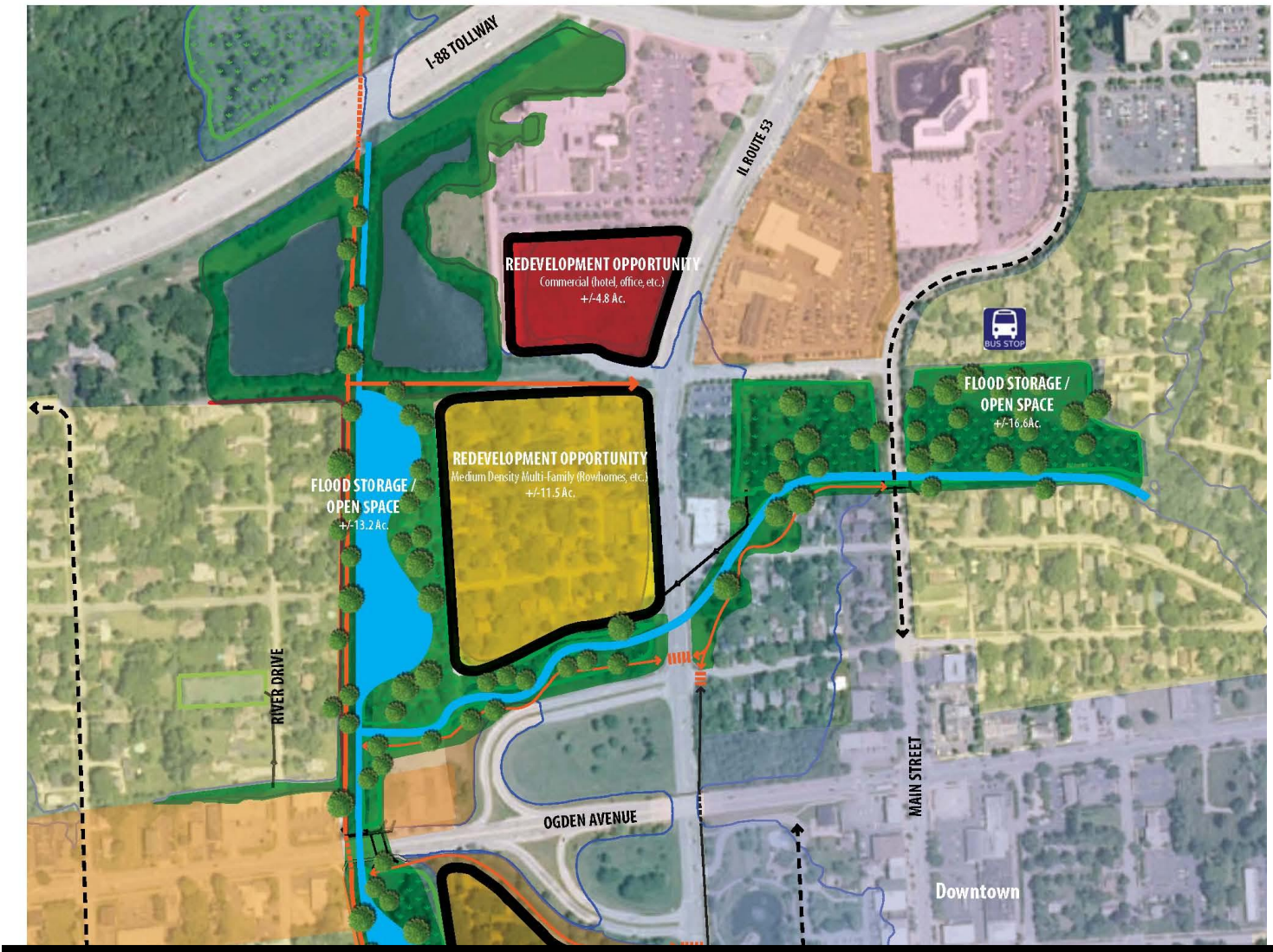
-  PROPOSED NATURALIZED AREA
-  FILL AREA FOR REDEVELOPMENT
-  PROPOSED 100-YR INUNDATION
-  PROPOSED LEVEE WALL

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geo
GIS User Community

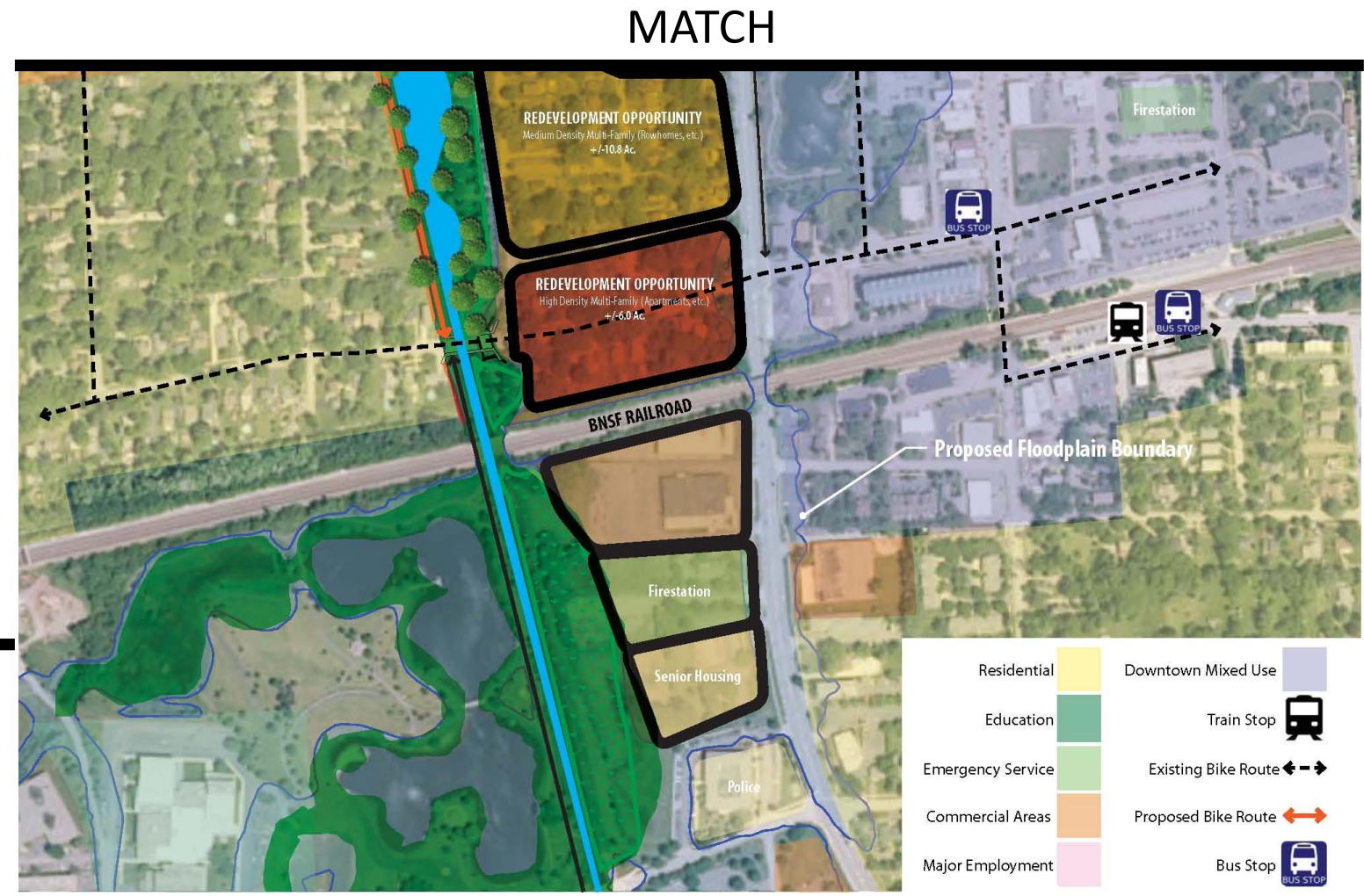
0'0"	PROPOSED CONDITIONS			PROJECT NO: 15109	DESIGNED BY: DLM	SCALE:	REVISIONS		
	EAST BRANCH DUPAGE RIVER RESILIENCY			FILE NAME: OVERALL-FILL	DRAWN BY: BAO	1" = 300'	NO.	DATE	DESCRIPTION
				ORIGINAL ISSUE DATE: 10/22/2015	CHECKED BY: DLM				
				SCALE: 1" = 300'	PROJECT MANAGER: DLM				



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WOODRIDGE, IL 60517
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Redevelopment Diagram

East Branch of DuPage River Resiliency Project

Lisle, Illinois

PREPARED FOR:
V3 Companies

ISSUE DATE: October 26, 2015
All drawings are preliminary and subject to change.
© 2015 Hitchcock Design Group

PROJECT OPTIONS

- Keep the levee at current level of protection.
- Improve the levee to a FEMA certified degree of protection.
 - Cost: \$61,586,000
 - BCA: 5.0
- Raise the land adjacent to the East Branch to a FEMA certified degree of protection.
 - Cost: \$49,703,800
 - BCA: 5.9
- Redevelopment Opportunity Value
 - Raise the land value affected by the project from \$24,624,115 to \$245,657,031 with an assumed investment of \$190,000,000, which is a 7% return to investors.
 - Create estimated 1,703 permanent jobs and 1,486 construction jobs.



QUESTIONS?

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