

CHAPTER 3. VILLAGE OF ARLINGTON HEIGHTS ANNEX

3.1 HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact

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3.2 JURISDICTION PROFILE

The following is a summary of key information about the jurisdiction and its history:

- **Date of Incorporation** 1887
- **Current Population:** 75,101 as of 2010 census
- **Population Growth:** Based on the data available Arlington Heights has experienced a relatively flat rate of growth over the past 13 years. The overall population has decreased 4.21 percent since 2000.
- **Location and Description:** The Village of Arlington Heights is located approximately 25 miles northwest of Chicago and is the 12th largest municipality in Illinois. The geographical area is 16.6 square miles and is located in Northwest Cook County in Wheeling Township. Within the boundaries are numerous highways including two major expressways I-90 and Route 53. The village is essentially divided in half by the Union Pacific Railroad and lies in close proximity to O'Hare International and Chicago Executive Airports. It is bordered by Long Grover to the north, Elk Grove Village to the south, Palatine to the west, and Prospect Heights to the east. The Village of Arlington Heights is primarily an upscale residential community; however within its boundaries are two major industrial complexes, numerous commercial establishments and a major sports complex.
- **Brief History:** Arlington Heights was founded in the mid-1800s by Asa Dunton. Asa's son William Dunton was the first landowner in this small farming community. In 1853 William Dunton persuaded the Illinois & Wisconsin Railroad to make a stop and a depot in the area and he laid out a town called Dunton in the surrounding area. In 1887 the community was incorporated as the Village of Arlington Heights with a population of 1,000.
- **Climate:** The climate in Arlington Heights is typical for the mid-west. Average rainfall is 32 inches and the average snowfall is 24 inches annually. The July high temperature is 83 degrees and the January low temperature is 11 degrees. The comfort index, which is based on humidity during hot months, is 46, which is close to the national average of 44.
- **Governing Body Format:** The Village of Arlington Heights is a home rule community with a council-manager form of government that provides policy leadership by elected officials along with the administrative direction of a village manager. The Village Board is composed of eight (8) Trustees and one (1) Village President, who is the Mayor. The Village consists of

sixteen (16) departments and nineteen (19) boards and commissions. This body of Government will assume the responsibility for adoption and implementation of the plan.

- **Development Trends:** The developmental plan for Arlington Heights is low to moderate consisting primarily of the redevelopment of older residential properties especially in the downtown area. The village is landlocked so further annexations of vacant land are no longer possible. According to the plan some rezoning for redevelopment is anticipated.

3.3 CAPABILITY ASSESSMENT

The assessment of the jurisdiction's legal and regulatory capabilities is presented in Table 3-1. The assessment of the jurisdiction's fiscal capabilities is presented in Table 3-2. The assessment of the jurisdiction's administrative and technical capabilities is presented in Table 3-3. Information on the community's National Flood Insurance Program (NFIP) compliance is presented in Table 3-4. Classifications under various community mitigation programs are presented in Table 3-5.

TABLE 3-1. LEGAL AND REGULATORY CAPABILITY					
	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Codes, Ordinances & Requirements					
Building Code	Yes	No	No	Yes	ICC 2009 Ord. 11-034 8/1/2011
Zonings	Yes	No	No	Yes	(65 ILCS 5/) Illinois Municipal Code. Ord. 85-114, 9/23/1985
Subdivisions	Yes	No	No	No	Ord. 07-114, 9/23/1985
Stormwater Management	Yes	No	Yes	Yes	State regulates industrial activity from Construction sites 1 acre or larger under section 402 CWA. MWRD - TARP Ord. 07-023, 4/9/2007
Post Disaster Recovery	No	No	No	No	
Real Estate Disclosure	No	No	Yes	Yes	(765 ILCS 77/) Residential Real Property Disclosure Act.
Growth Management	Yes	No	No	No	97-038, 1997
Site Plan Review	Yes	No	No	No	Ord. 95-088, 12/4/1995
Public Health and Safety	Yes	No	Yes	No	Cook County Dept. of Public Health Ord. 95-088, 12/4/1995
Environmental Protection	No	No	No	No	

**TABLE 3-1.
LEGAL AND REGULATORY CAPABILITY**

	Local Authority	State or Federal Prohibitions	Other Jurisdictional Authority	State Mandated	Comments
Planning Documents All have been amended many times since their adoption.					
General or Comprehensive Plan	Yes	No	No	No	Ord. 97-038, 1997 could be linked
<i>Is the plan equipped to provide linkage to this mitigation plan?</i>					Yes
Floodplain or Basin Plan	No	No	No	No	
Stormwater Plan	No	No	No	No	
Capital Improvement Plan	No	No	No	No	
<i>What types of capital facilities does the plan address?</i>					N/A
<i>How often is the plan revised/updated?</i>					N/A
Habitat Conservation Plan	No	No	No	No	
Economic Development Plan	Yes	No	Yes	Yes	92-113, 97-038 11/16/92
Shoreline Management Plan	No	No	No	No	
Response/Recovery Planning					
Comprehensive Emergency Management Plan	Yes	No	No	Yes	1st 1982, amended bi. ann. Latest 2013-2014
Threat and Hazard Identification and Risk Assessment	No	No	Yes	No	Cook County DHSEM Preparing THIRA
Terrorism Plan	Yes	No	No	Yes	Emergency Operations Plan Annex Q
Post-Disaster Recovery Plan	Yes	No	Yes	Yes	Emergency Operations Plan Annex P
Continuity of Operations Plan	Yes	No	Yes	No	Emergency Operations Plan Annex A
Public Health Plans	Yes	No	Yes	No	Emergency Operations Plan Annex E

**TABLE 3-2.
FISCAL CAPABILITY**

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	No
State Sponsored Grant Programs	Yes
Development Impact Fees for Homebuyers or Developers	Yes
Other	

**TABLE 3-3.
ADMINISTRATIVE AND TECHNICAL CAPABILITY**

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Planning, Engineering & Community Development Departments
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building and Engineering Departments
Planners or engineers with an understanding of natural hazards	Yes	Engineering & Public Works
Staff with training in benefit/cost analysis	Yes	Planning & Community Development Departments
Surveyors	No	Outsourced
Personnel skilled or trained in GIS application	Yes	Cook County GIS Consortium
Scientist familiar with natural hazards in local area	No	Outsourced
Emergency manager	Yes	Fire/ AH Emergency Management Agency
Grant writers	Yes	Planning, Community Development Departments

**TABLE 3-4.
NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE**

What department is responsible for floodplain management in your jurisdiction?	Engineering
Who is your jurisdiction's floodplain administrator? (department/position)	Engineering Dept. Director
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	4/9/07
When was the most recent Community Assistance Visit or Community Assistance Contact?	12/09/05
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, please state what they are.	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? (If no, please state why)	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	Continued training is always welcomed.
Does your jurisdiction participate in the Community Rating System (CRS)? If so, is your jurisdiction seeking to improve its CRS Classification? If not, is your jurisdiction interested in joining the CRS program?	No; No

**TABLE 3-5.
COMMUNITY CLASSIFICATIONS**

	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	Yes	4	3/27/12
Public Protection	Yes	ISO Class 2	January 2009
StormReady	Yes	Gold (countywide)	2014
Tree City USA	Yes	N/A	1980

3.4 JURISDICTION-SPECIFIC NATURAL HAZARD EVENT HISTORY

Table 3-6 lists all past occurrences of natural hazards within the jurisdiction. Repetitive flood loss records are as follows:

- Number of FEMA-Identified Repetitive Loss Properties: 3
- Number of FEMA-Identified Severe Repetitive Loss Properties: 0
- Number of Repetitive Flood Loss/Severe Repetitive Loss Properties That Have Been Mitigated: 0

TABLE 3-6. NATURAL HAZARD EVENTS			
Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Polar Vortex/ Winter Weather events	N/A	Dec 2013 – March 2014	
Severe Weather/Urban Flooding	DR-4116	April 2013	
Severe Weather/Urban Flooding	N/A	June 2012	
Severe Weather/Urban Flooding	N/A	July 2011	
Severe Weather/Urban Flooding	DR-1800	Sept. 2008	
Severe Weather/Urban Flooding	N/A	Sept. 2006	
Winter Storm	N/A	January 2005	
Winter Storm	N/A	January 2002	
Winter Storm	N/A	Feb. 2000	
Winter Storm	N/A	January 1999	
Severe Weather/Urban Flooding	DR-798	August 1987	
Severe Weather/Urban Flooding	DR-776	Sept. 1986	
Winter Storm	N/A	January 1979	

3.5 HAZARD RISK RANKING

Table 3-7 presents the ranking of the hazards of concern. Hazard area extent and location maps are included at the end of this chapter. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes.

**TABLE 3-7.
HAZARD RISK RANKING**

Rank	Hazard Type	Risk Rating Score (Probability x Impact)
1	Severe Weather/Urban Flooding	54
2	Severe Winter Weather	54
3	Flooding ^a	18
4	Earthquake	32
5	Tornado	27
6	Drought	2
7	Dam Failure	0

- a. Arlington Heights is not subject to river flooding but we are and have been affected by urban flooding issues for many years. We have subjectively placed flooding higher than its score value ranking would have put it due to our past experience. Experience has shown that our urban flooding issues are more directly connected to severe summer storms with excessively heavy rain fall rather than spring snow thawing events. Because of these issues we have grouped Severe Weather/Urban Flooding together with a risk rating of 54 since we only get the flooding along with these storms.

3.6 HAZARD MITIGATION ACTION PLAN AND EVALUATION OF RECOMMENDED ACTIONS

Table 3-8 lists the actions that make up the jurisdiction's hazard mitigation plan. Table 3-9 identifies the priority for each action. Table 3-10 summarizes the mitigation actions by hazard of concern and the six mitigation types.

**TABLE 3-8.
HAZARD MITIGATION ACTION PLAN MATRIX**

Applies to New or Existing Assets	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline ^a
Action A2.1 —Construction & maintenance of the Lake Arlington retention & Wilke Rd. detention basins and the Weller Creek flood control projects.						
New & existing	Urban Flooding	1, 2, 9, 10, 13	Engineering Dept.	\$140,000,000 High	Grants, Bonds & CIP	Long Term
Action A2.2 —Construction of rear yard storm sewers in chronic flood prone areas.						
New & existing	Urban Flooding	1, 2, 9, 10, 13	Engineering Dept.	\$800,000 High	Il. Dept. of Commerce grant, CIP	Long Term

**TABLE 3-8.
HAZARD MITIGATION ACTION PLAN MATRIX**

Applies to New or Existing Assets	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline ^a
Action A2.3 —Implementation of a rebate program to help owners of older homes install overhead sewers or install a sewer back up system.						
New & existing	Urban Flooding	1, 2, 6, 8, 9, 10, 13	Engineering Dept.	\$725,000 Medium	CIP	Long Term
Action A2.4 —Commission two studies, one regarding areas of chronic flooding and a second regarding a combined Storm/Sanitary sewer system in the older part of the village.						
New & existing	Urban Flooding	1, 2, 6, 8, 9, 10, 13	Public Works Dept.	\$200,000, Low	CIP	Short Term and Ongoing
Action A2.5 —Implement recommendations from studies mentioned in Action A2.4.						
New	Urban Flooding	1, 2, 6, 8, 9, 10, 13	Engineering Dept.	Study due by June 2014 Medium	CIP	Long Term
Action A2.6 —Print & distribute the 2014 Arlington Heights Multi-Hazard Emergency Preparedness Guide.						
Update of existing	All	1, 6, 8, 11, 13	Emergency Management	\$10,000, Low	General Fund	Short Term
Action A2.7 —Update, bi-annually, the Arlington Heights Emergency Operations Plan.						
Update of existing	All	1, 4, 5, 6, 8	Emergency Management	\$1,000, Low	General Fund	Short Term
Action A2.8 —Continue to improve and maintain the Everbridge Mass Notification System.						
Update of existing	All	1, 5, 6, 8, 11, 12	Admin.	\$112,000, Low	General Fund & 911 budget	Short Term and Ongoing
Action A2.9 —Where appropriate, support retrofitting, purchase, or relocation of structures in hazard-prone areas to prevent future structure damage. Give priority to properties with exposure to repetitive losses.						
Existing	All	7, 13	Village of Arlington Heights	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)
Action A2.10 —Continue to support the countywide actions identified in this plan.						
New and existing	All	All	Village of Arlington Heights	Low	General Fund	Short- and long-term
Action A2.11 —Actively participate in the plan maintenance strategy identified in this plan.						
New and existing	All	3, 4, 6	DHSEM, Village of Arlington Heights	Low	General Fund	Short-term

**TABLE 3-8.
HAZARD MITIGATION ACTION PLAN MATRIX**

Applies to New or Existing Assets	Hazards Mitigated	Objectives Met	Lead Agencies	Estimated Cost	Sources of Funding	Timeline ^a
Action A2.12 —Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.						
New and existing	All	3, 4, 5, 6, 7, 9, 10, 11, 13	Village of Arlington Heights	Low	General Fund	Long-term
Action A2.13 —Maintain good standing under the National Flood Insurance Program by implementing programs that meet or exceed the minimum NFIP requirements. Such programs include enforcing an adopted flood damage prevention ordinance, participating in floodplain mapping updates, and providing public assistance and information on floodplain requirements and impacts.						
New and existing	Flooding	4, 6, 9	Village of Arlington Heights	Low	General Fund	Short-term and ongoing
Action A2.14 —Where feasible, implement a program to record high water marks following high-water events.						
New and existing	Flooding. Severe Weather	3, 6, 9	Village of Arlington Heights	Medium	General Fund; FEMA Grant Funds (Public Assistance)	Long-term
Action A2.15 —Integrate hazard mitigation plan into other plans, programs, or resources that dictate land use or redevelopment.						
New and existing	All	3, 4, 6, 10, 13	Arlington Heights Planning, Engineering & Community Development Departments	Low	General Fund	Short-term
a. Ongoing indicates continuation of an action that is already in place. Short-term indicates implementation within five years. Long-term indicates implementation after five years.						

**TABLE 3-9.
MITIGATION STRATEGY PRIORITY SCHEDULE**

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/ Budgets?	Priority ^a
1	5	High	High	Yes	partial	Yes	High
2	5	Medium	Medium	Yes	Yes	Yes	Med.
3	7	High	Medium	Yes	No	Yes	High
4	7	High	Medium	Yes	No	Yes	High
5	7	High	Medium	Yes	No	Yes	High
6	5	High	Low	Yes	No	Yes	Med.
7	5	High	Low	Yes	No	Yes	Med
8	6	High	Medium	Yes	No	Yes	High
9	2	High	High	Yes	Yes	No	Medium
10	13	Medium	Low	Yes	No	Yes	High
11	2	Medium	Low	Yes	Yes	Yes	High
12	9	Medium	Low	Yes	No	Yes	Medium
13	3	Medium	Low	Yes	No	Yes	High
14	3	Medium	Medium	Yes	Yes	No	Medium
15	5	Medium	Low	Yes	No	Yes	High

a. See Chapter 1 for explanation of priorities.

**TABLE 3-10.
ANALYSIS OF MITIGATION ACTIONS**

Hazard Type	Action Addressing Hazard, by Mitigation Type ^a					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Dam Failure	N/A	N/A	N/A	N/A	N/A	N/A
Drought	10, 11, 15	9	6, 7, 8, 10, 11	N/A	7, 8, 10	N/A
Earthquake	6, 10, 11, 15	7, 9	6, 7, 8, 10, 11	N/A	7, 8, 10	N/A
Flooding (Urban)	1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15	1, 2, 3, 4, 5, 9, 12, 13	6, 8, 10, 11, 12, 13	1, 2, 7, 12, 13	6, 7, 8, 10, 12, 13	1, 2, 3
Severe Weather	6, 7, 10, 11, 12, 14, 15	1, 2, 3, 9	6, 7, 8, 10, 11, 12	1, 2, 12	1, 2, 7, 8, 10, 12	1, 2
Severe Winter Weather	10, 11, 12, 15	9	10, 11, 12	12	10, 12	N/A
Tornado	10, 11, 12, 15	9	10, 11, 12	N/A	10, 12	N/A

a. See Chapter 1 for explanation of mitigation types.

3.7 FUTURE NEEDS TO BETTER UNDERSTAND RISK/ VULNERABILITY

No future needs have been identified at this time.

3.8 ADDITIONAL COMMENTS

As shown in the Action Plan Matrix, Arlington Heights has been dealing with its urban flooding issues for many years. Lake Arlington, the Wilke-Kirchoff detention basins, and the Weller Creek flood control projects have provided exceptional flood prevention and control. Arlington Heights is a partner in the MWRD – TARP, better known as the “Deep Tunnel Project.” Since the completion of the Gloria Alitto Majewski Reservoir in 1998 along with the aforementioned projects, flooding in the village has been greatly reduced.

The severity of flood damage within the village depends on topography, stormwater control measures, sewer capacity, etc. In some of the older parts of the village, built prior to 1975, there are combined sewer systems. Catch basin flow restrictors installed intentionally pond water in the streets in order to reduce the flow into the sewer system, thereby reducing basement flooding/backup.

Paved roads, parking lots, sidewalks, and buildings all reduce the amount of land which can absorb water and can lead to increased urban flooding issues without sufficient regulations. Arlington Heights requires on site stormwater detention systems with flow restrictors for various sites by ordinance.

**HAZUS-MH RISK ASSESSMENT RESULTS FOR
ARLINGTON HEIGHTS**

ARLINGTON HEIGHTS EXISTING CONDITIONS

2010 Population.....	75,101
Total Assessed Value of Structures and Contents	\$13,507,001,344
Area in 100-Year Floodplain	171.72 acres
Area in 500-Year Floodplain	1,368.74 acres
Number of Critical Facilities	91

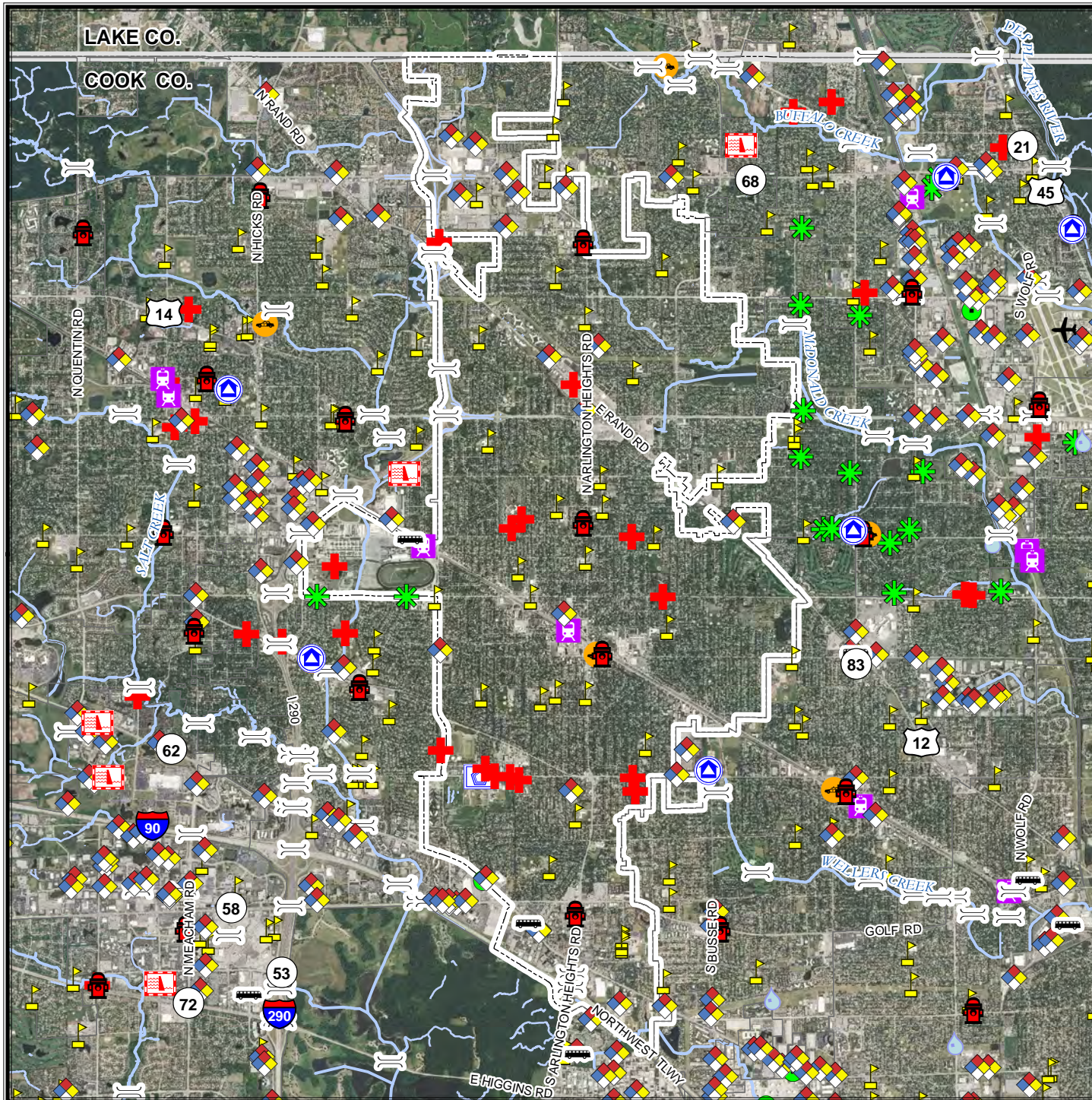
HAZARD EXPOSURE IN ARLINGTON HEIGHTS

	Number Exposed		Value Exposed to Hazard			% of Total Assessed Value Exposed
	Population	Buildings	Structure	Contents	Total	
Dam Failure						
Buffalo Creek	400	123	\$73,027,000	\$60,348,000	\$133,375,000	0.99%
U. Salt Cr. #2	0	0	\$0	\$0	\$0	0.00%
Touhy	0	0	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	46	14	\$53,485,000	\$53,362,000	\$106,847,000	0.79%
U. Salt Cr. #4	46	14	\$53,485,000	\$53,362,000	\$106,847,000	0.79%
Flood						
100-Year	7	2	\$571,253	\$285,627	\$856,880	0.01%
500-Year	12,233	3,764	\$1,048,736,908	\$546,262,513	\$1,594,999,421	11.81%
Tornado						
100-Year	—	—	\$843,431,153	\$507,709,348	\$1,351,140,501	10.00%
500-Year	—	—	\$1,195,479,510	\$733,654,021	\$1,929,133,530	14.28%

ESTIMATED PROPERTY DAMAGE VALUES IN ARLINGTON HEIGHTS

	Estimated Damage Associated with Hazard			% of Total Assessed Value Damaged
	Building	Contents	Total	
Dam Failure				
Buffalo Creek	\$450,000	\$985,000	\$1,435,000	0.01%
U. Salt Cr. #2	\$0	\$0	\$0	0.00%
Touhy	\$0	\$0	\$0	0.00%
U. Salt Cr. #3	\$481,000	\$1,682,000	\$2,163,000	0.02%
U. Salt Cr. #4	\$814,000	\$2,695,000	\$3,509,000	0.03%
Earthquake				
1909 Historical Event	\$33,714,113	\$7,290,861	\$41,004,974	0.30%
Flood				
10-Year	\$0	\$0	\$0	0.00%
100-Year	\$0	\$0	\$0	0.00%
500-Year	\$118,344,585	\$54,434,879	\$172,779,464	1.28%
Tornado				
100-Year	\$84,343,115	\$50,770,935	\$135,114,050	1.00%
500-Year	\$174,540,008	\$107,113,487	\$281,653,495	2.09%

HAZARD MAPPING FOR ARLINGTON HEIGHTS



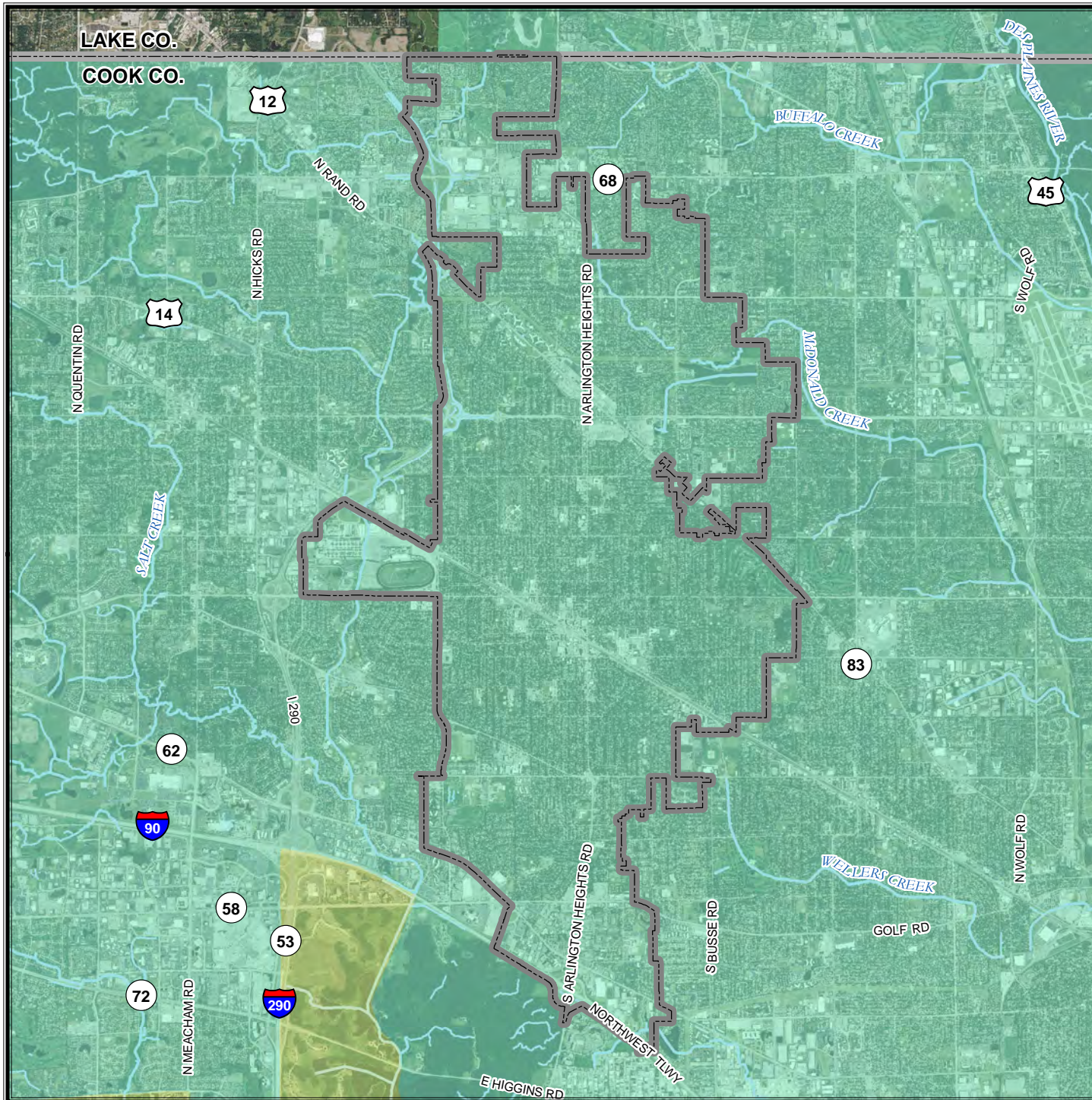
VILLAGE OF ARLINGTON HEIGHTS

Critical Facilities

- Airport Facility
- Bus Facility
- Dams
- Emergency Operations Center
- Fire Station Facility
- Hazardous Materials
- Highway Bridge
- Light Rail Bridge
- Light Rail Facility
- Medical Care Facility
- Military
- Oil Facility
- Police Station Facility
- Port Facility
- Potable Water Facility
- Rail Facility
- Railway Bridge
- School Facility
- Other Facility

Base Map Data Sources:
Cook County, U.S. Geological Survey





VILLAGE OF ARLINGTON HEIGHTS

Illinois Historical 1909 Earthquake

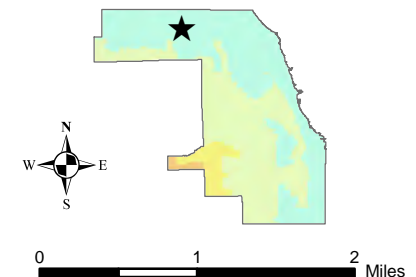
Modified Mercalli Intensity

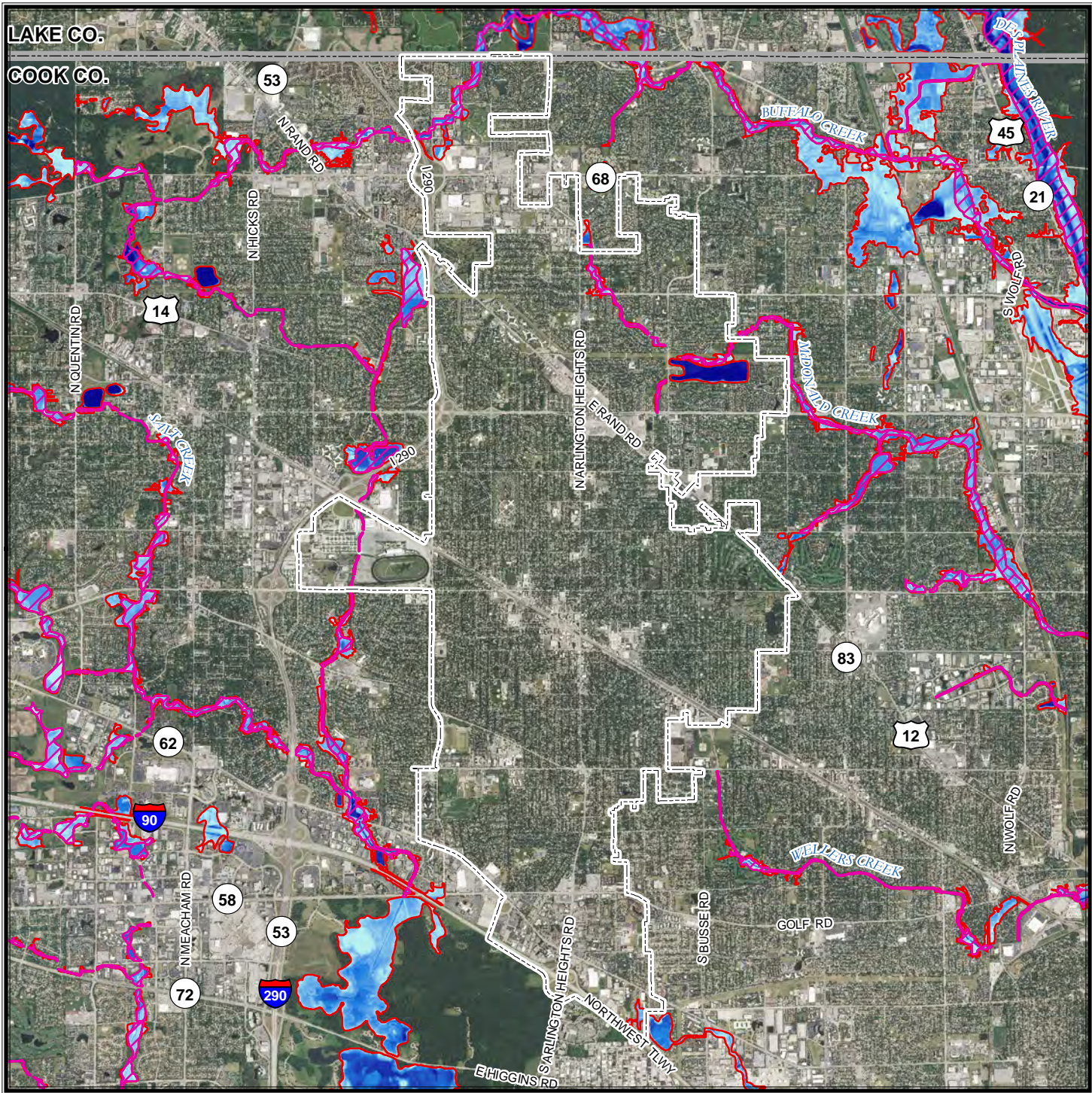
- I (Not Felt)
- II-III (Weak)
- IV (Light)
- V (Moderate)
- VI (Strong)
- VII (Very Strong)
- VIII (Severe)
- IX (Violent)
- X+ (Extreme)

Event Date of May 26, 1909. Original magnitude of 5.0; increased magnitude for analysis of 6.0. Depth: 10 km. Epicenter Lat/Long: 41.6N 88.1W

An Epicenter Map is derived from a database of historical earthquakes developed from three sources (Composite Earthquake Catalog, 2002, Earthquake Data Base, 2002, and Earthquake Seismicity Catalog, 1996). The database has been sorted to remove historical earthquakes with magnitudes less than 5.0. The Epicenter Map is based on a historical earthquake epicenter, selected from the database.

Base Map Data Sources:
Cook County, U.S. Geological Survey





VILLAGE OF ARLINGTON HEIGHTS

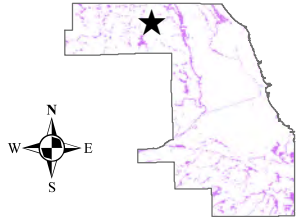
FEMA DFIRM Flood Hazard Areas

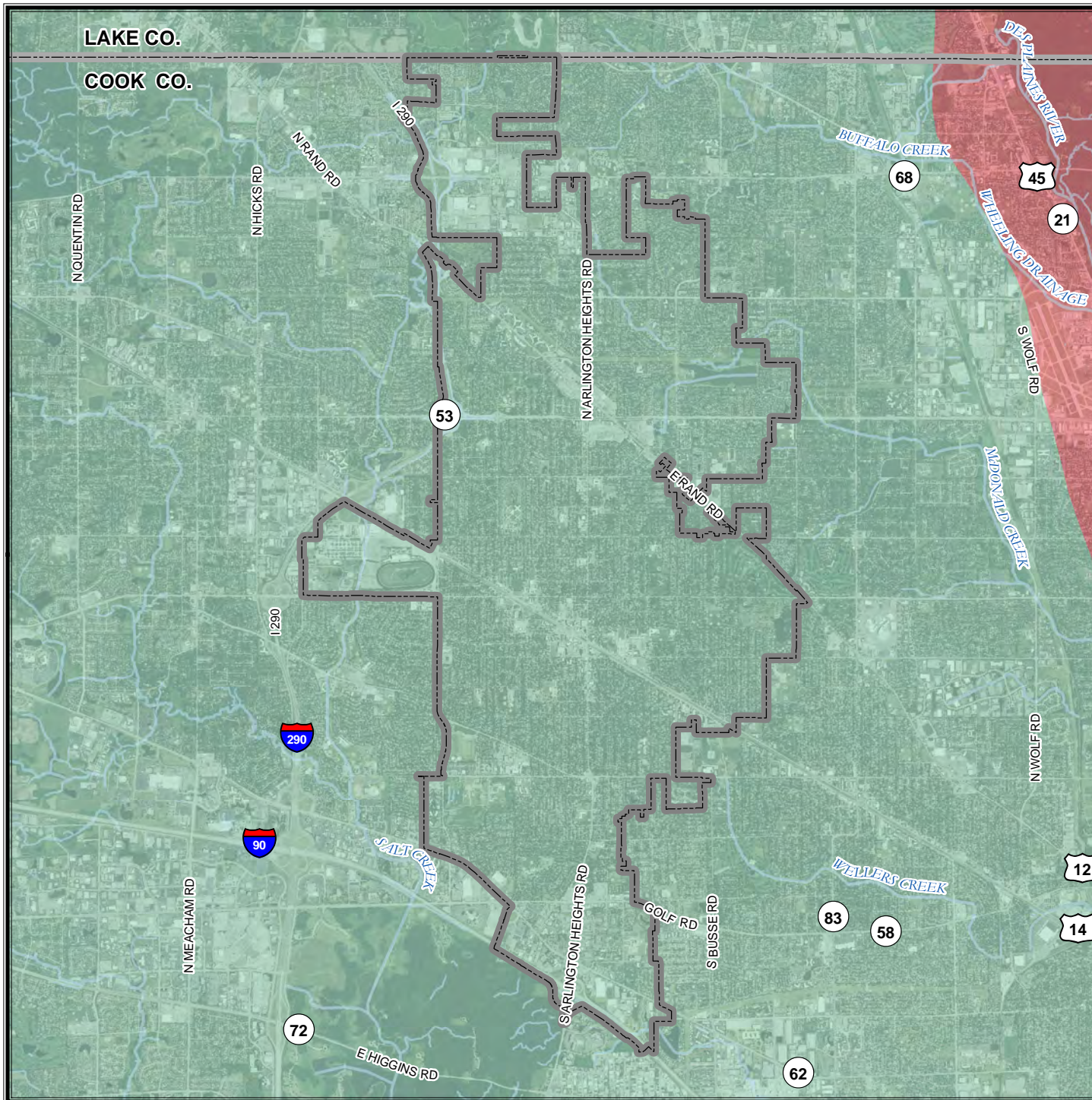
- Floodway
- 1 Percent Annual Flood Hazard
- Flood Depth
20 ft
-1 ft

Flood hazard areas as depicted on FEMA Digital Flood Insurance Rate Maps (DFIRM).

The 1 percent annual flood hazard is commonly referred to as the 100 year floodplain.

Base Map Data Sources:
Cook County, U.S. Geological Survey





VILLAGE OF ARLINGTON HEIGHTS

Liquefaction Susceptibility

Susceptible	Not Susceptible
High	Bedrock
Moderate to High	Peat
Moderate	Water
Low to Moderate	Ice
Low	
Very Low to Low	
Very Low	

Liquefaction data provided by the Illinois State Geological Society. Liquefaction data based on the Youd and Perkins (1978) method.

A liquefaction susceptibility map provides an estimate of the likelihood that soil will liquefy as a result of earthquake shaking. This type of map depicts the relative susceptibility in a range that varies from very low to high. Areas underlain by bedrock or peat are mapped separately as these earth materials are not liquefiable, although peat deposits may be subject to permanent ground deformation caused by earthquake shaking.

Base Map Data Sources:
Cook County, U.S. Geological Survey

