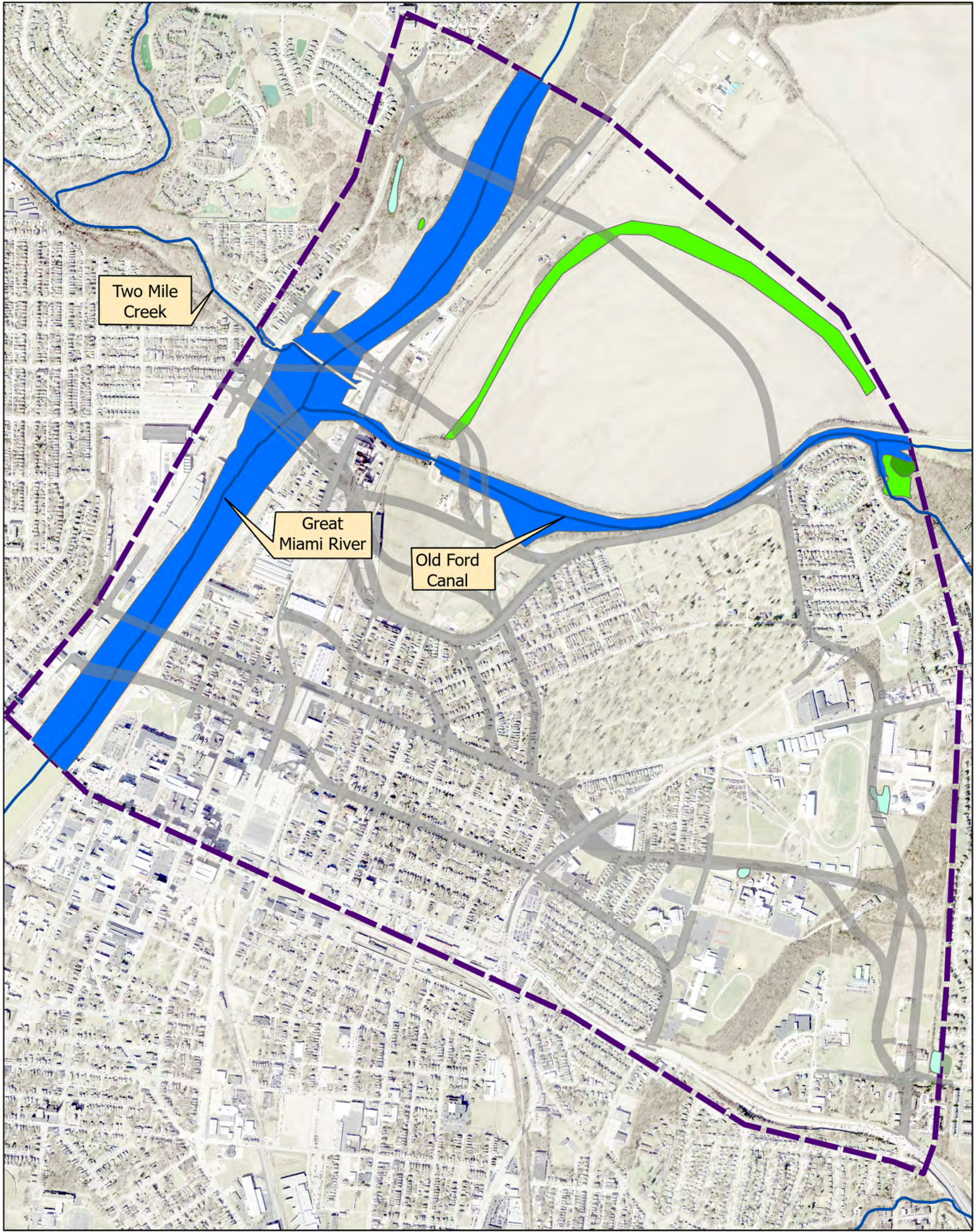


Attachment C

Environmental Mapping

- Ecological Resource Mapping
- Threatened and Endangered Species Information
- Land and Water Conservation Funded (LWCF) Properties

Environmental Mapping



Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base Features Produced from Project Map Designs
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image: World Imagery: Maxar

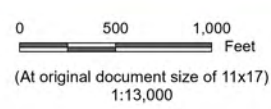
Legend

Streams
 Streams

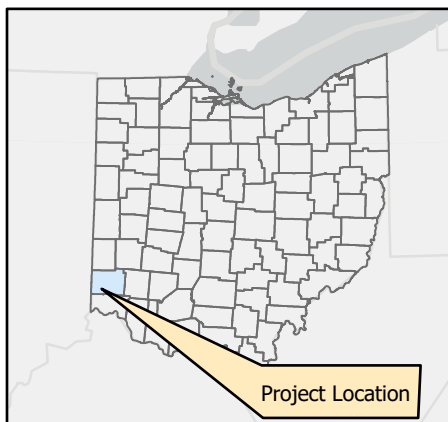
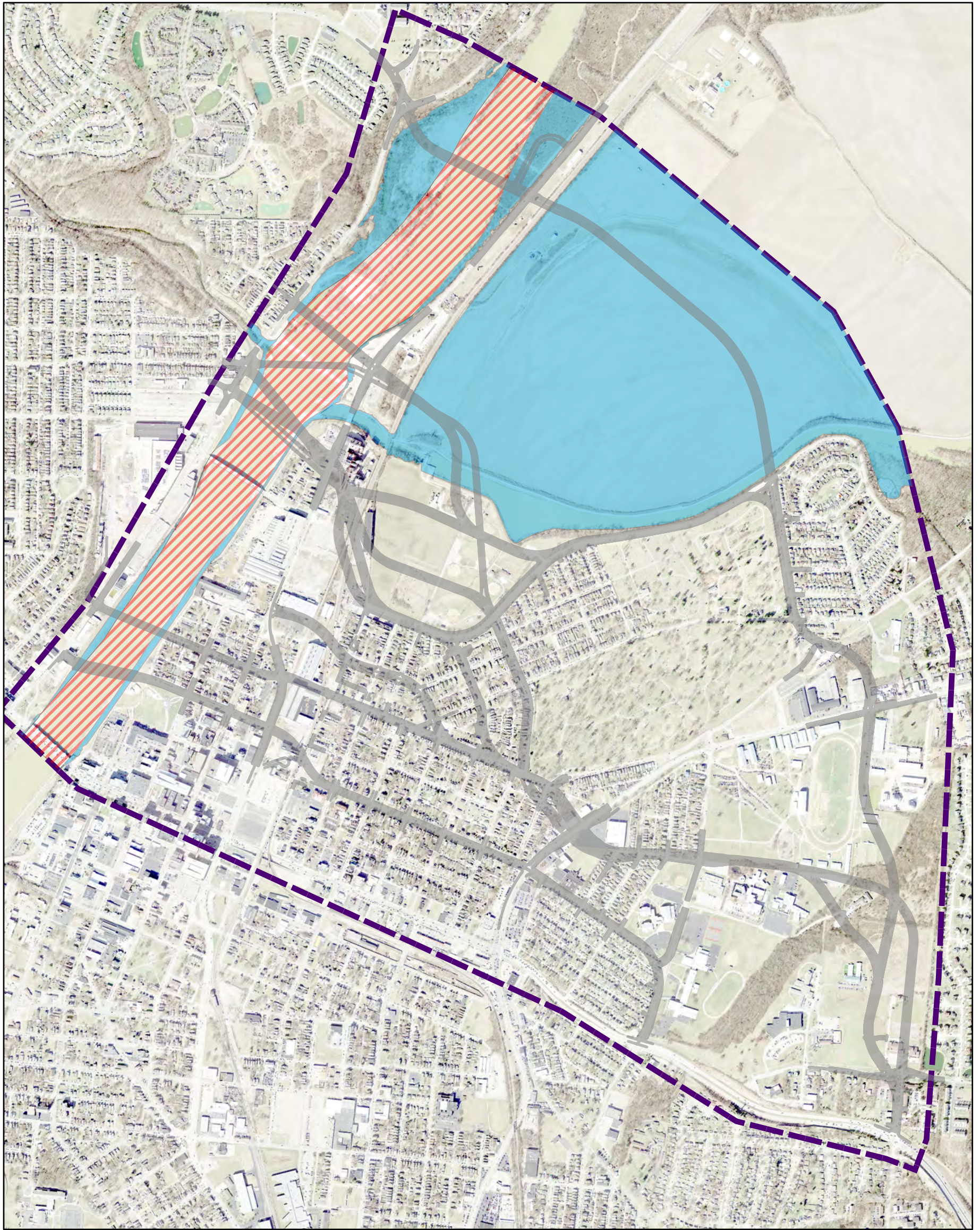
Study Area Wetlands
 Freshwater Emergent Wetland
 Freshwater Forested/Shrub Wetland
 Freshwater Pond
 Riverine

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area






Project Location City of Hamilton, Butler County, Ohio
Client/Project North Hamilton Crossing (NHX) PID 115755 Feasibility Study
 Prepared by RG on 2022-10-27
 173620130
 Figure No. **C-1**
 Title **Streams and Wetlands Map**




Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar

Legend

FEMA Floodplain
 FLOODPLAIN
 FLOODWAY

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area

0 500 1,000 Feet
 (At original document size of 11x17)
 1:13,000



Project Location City of Hamilton
 Butler County, Ohio

Prepared by RG on 2022-10-27

Client/Project North Hamilton Crossing (NHX)
 PID 115755
 Feasibility Study

173620130

Figure No.

C-2

Title

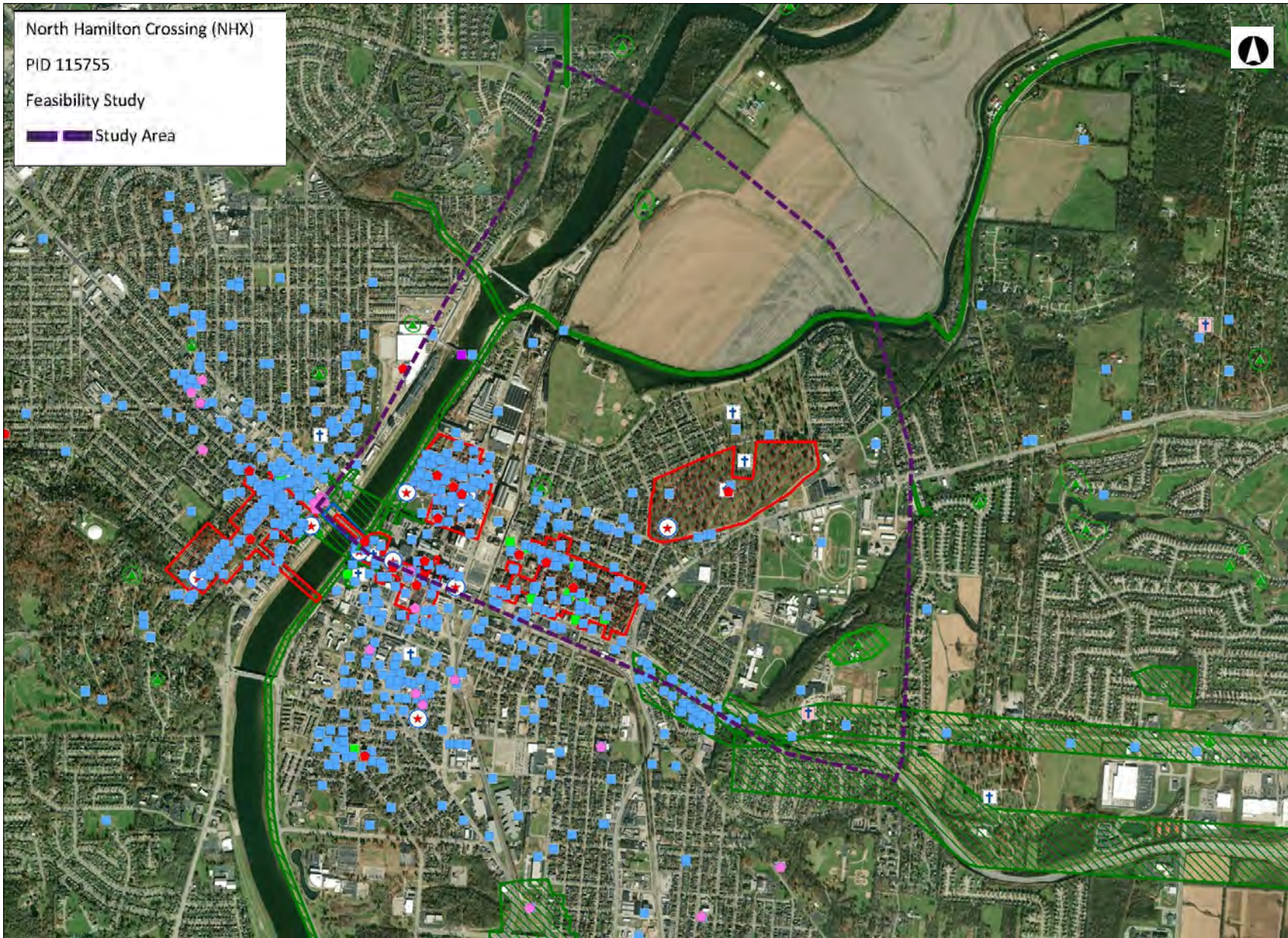
FEMA National Flood Hazard Layer Map

North Hamilton Crossing (NHX)

PID 115755

Feasibility Study

Study Area



Legend

- NR Listings
 - Listed
 - National Historic Landmark
 - Delisted
- Determinations of Eligibility
 - DOE
 - Demolished
- Archaeological Sites
- Historic Structures
- Historic Bridges
- Historic Tax Credit Projects
- Local Designations
- OGS Cemeteries
 - Confident
 - Not Confident
- Historic Markers
 - Dams
 - UTM Zone Split
- NR Boundaries
- Local Districts
- OAI Site Boundaries
- Previously Surveyed Areas
 - Phase 1
 - Phase 2
 - Phase 3
- Historic Previously Surveyed
- Highways
- Counties

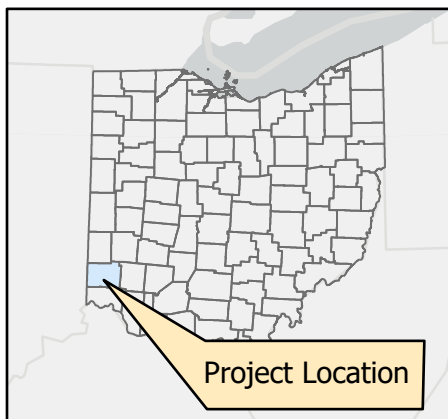
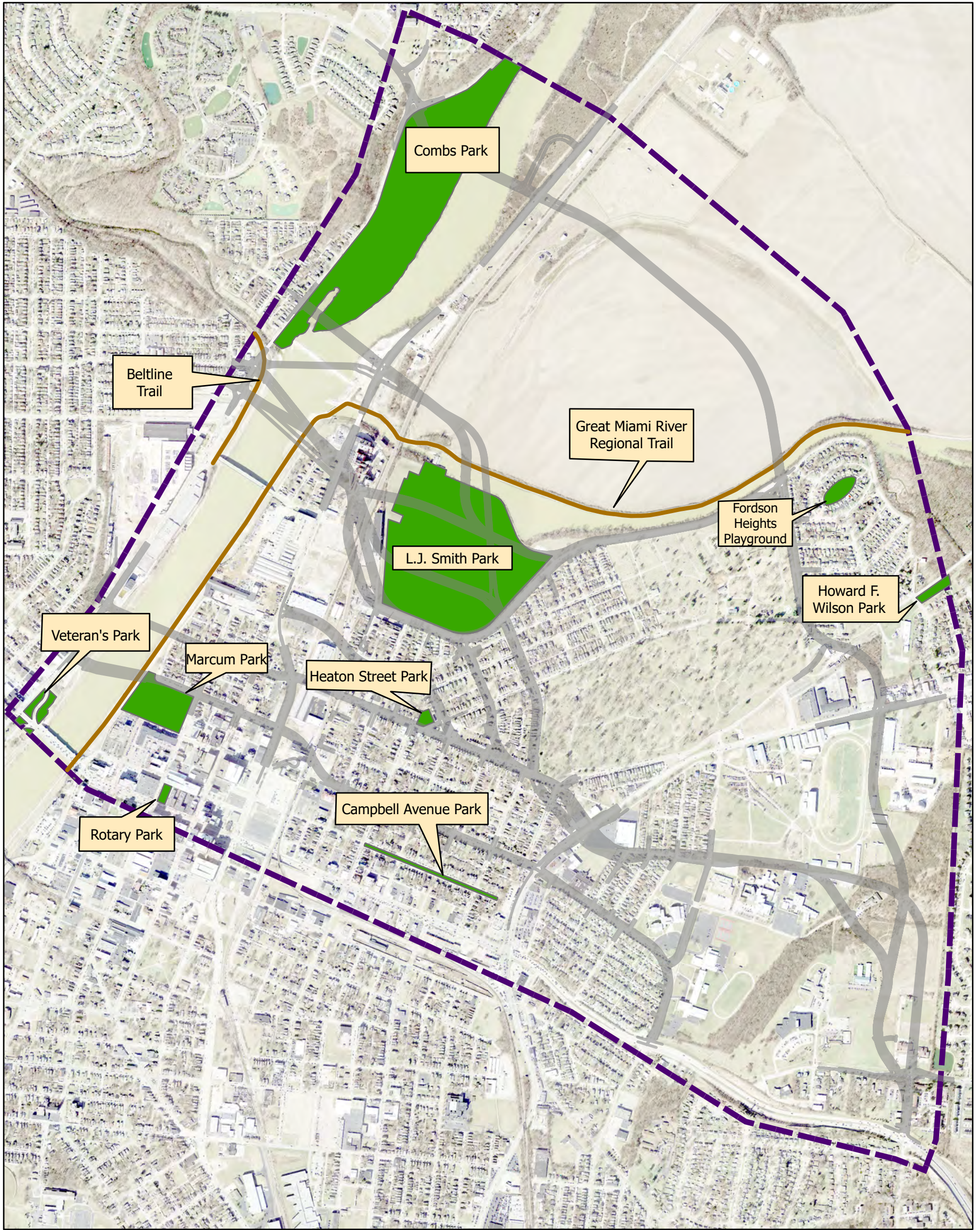
1: 25,000 Attachment C-3

Copyright/Disclaimer

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Datum: [Datum]
Projection: WGS_1984_Web_Mercator_Auxiliary_Sp here





Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
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 World Imagery: Maxar

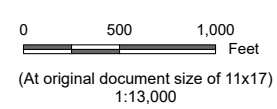
Legend

Trails
 Trails

Parks
 Parks

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area



Project Location City of Hamilton, Butler County, Ohio *Prepared by* RG on 2022-10-27

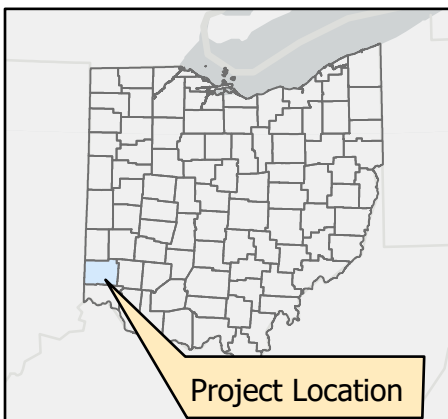
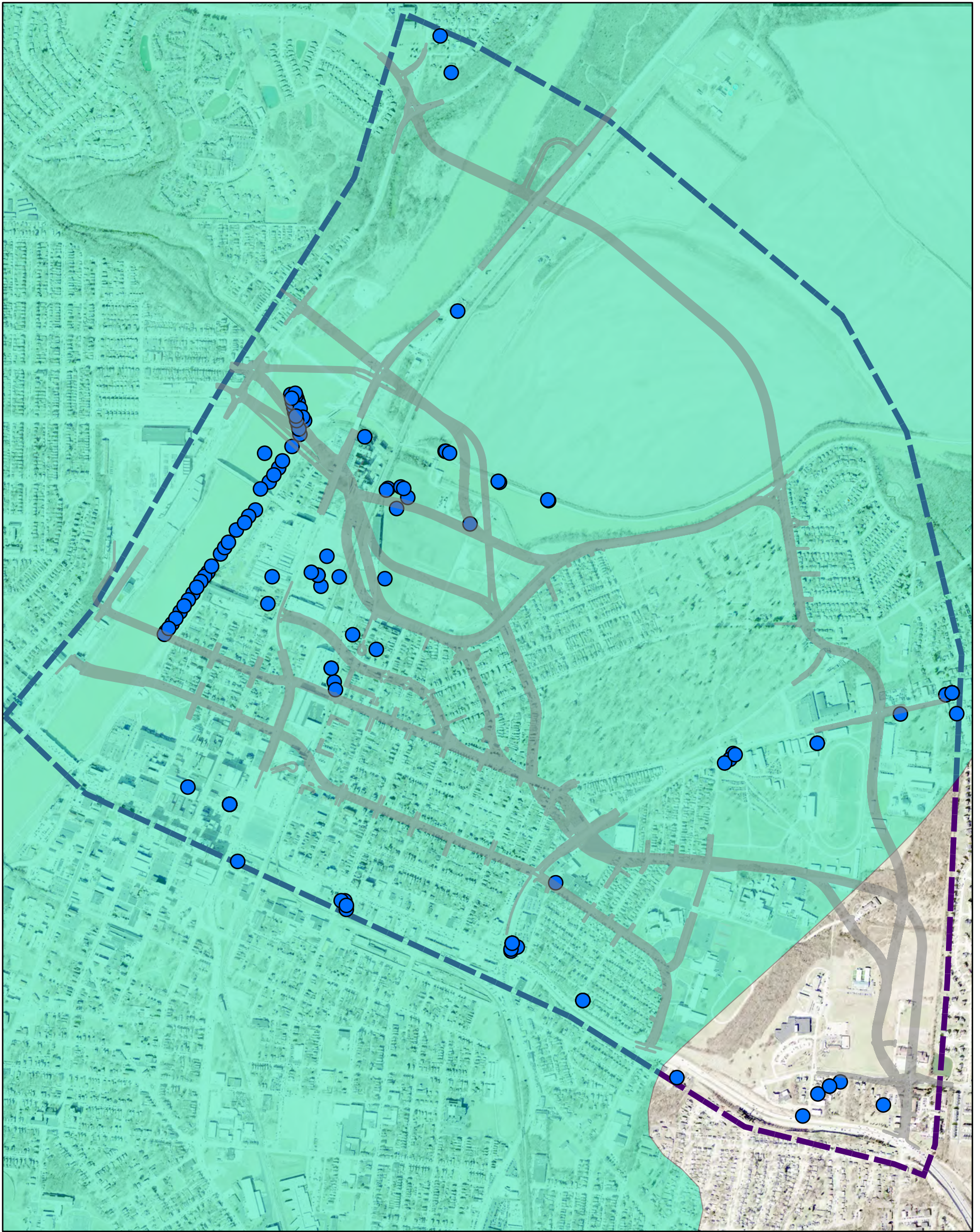
Client/Project North Hamilton Crossing (NHX) 173620130
 PID 115755
 Feasibility Study

Figure No.

C-4

Title

Known and Potential Section 4(f) Properties Map



Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
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 World Imagery: Maxar

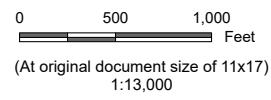
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ODNR Water Wells
 ● ODNR Water Wells

Sole Source Aquifers
 Sole Source Aquifers

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area

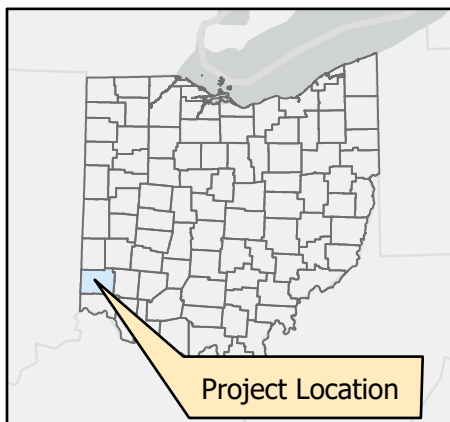
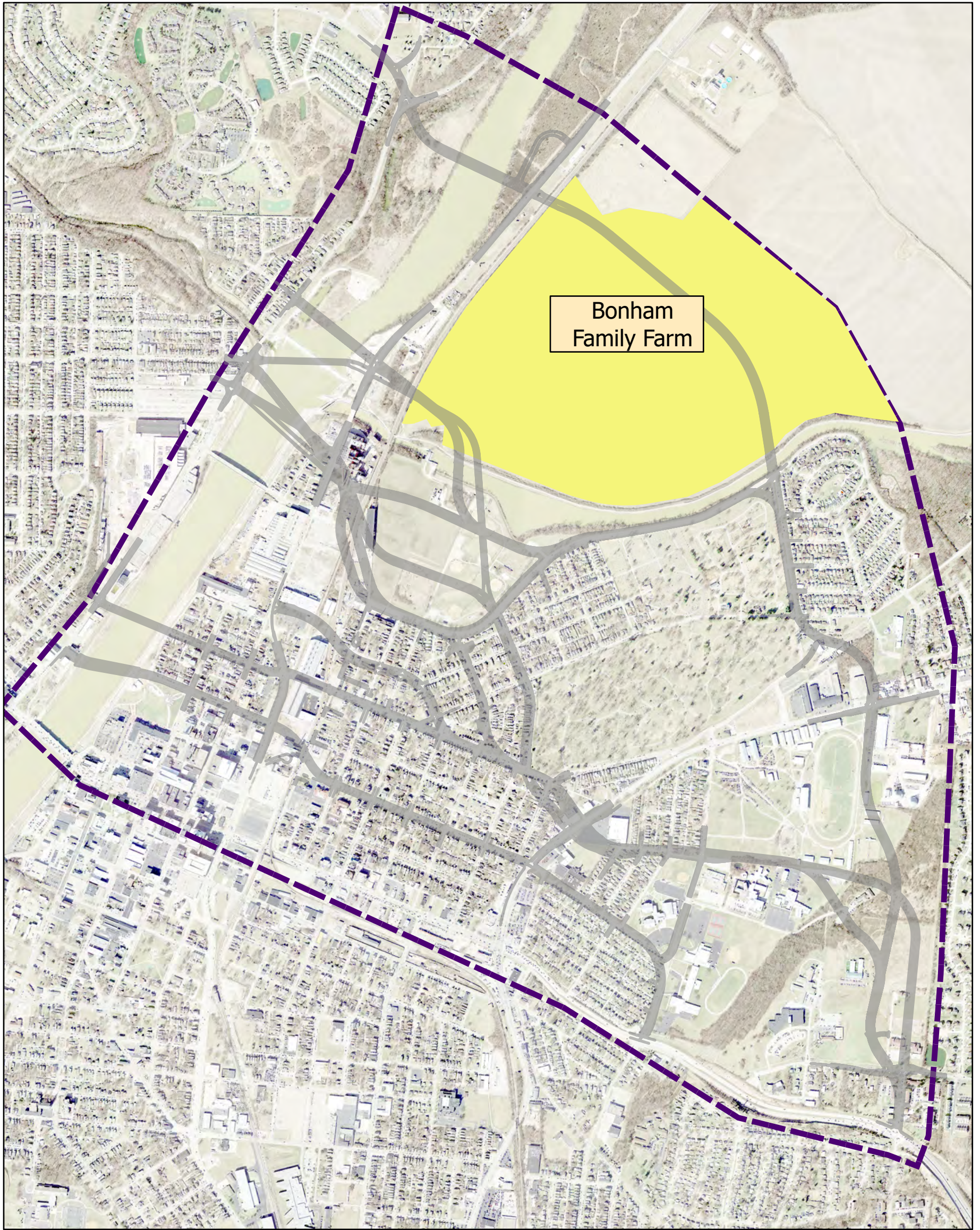


Project Location City of Hamilton
 Butler County, Ohio
 Prepared by RG on 2022-10-27

Client/Project North Hamilton Crossing (NHX) 173620130
 PID 115755
 Feasibility Study

Figure No.
C-5

Title
Sole Source Aquifer and Water Wells Map



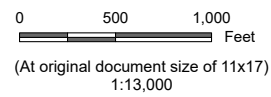
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar

Legend

Farmland
 Farmland

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area



Project Location City of Hamilton, Butler County, Ohio Prepared by RG on 2022-10-28

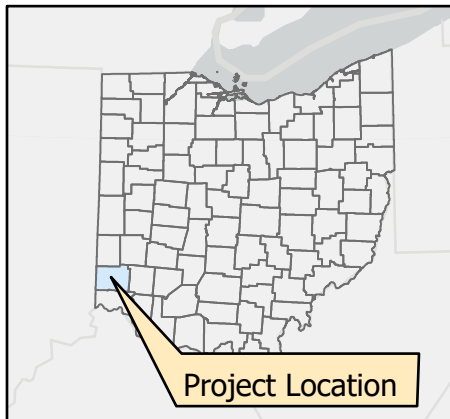
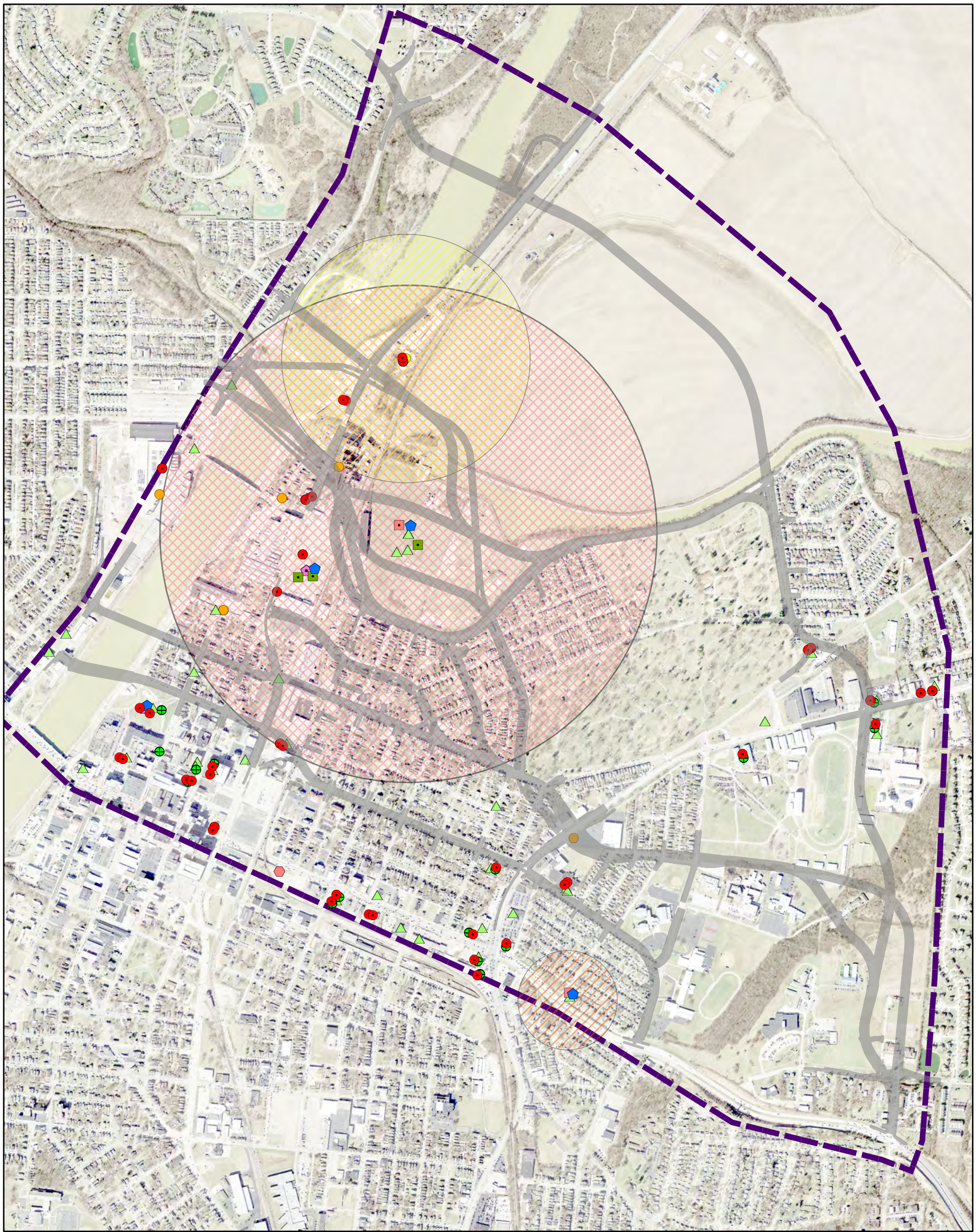
Client/Project North Hamilton Crossing (NHX) 173620130
 PID 115755
 Feasibility Study

Figure No.

C-6

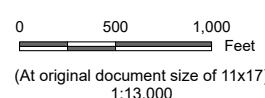
Title

Farmlands Map



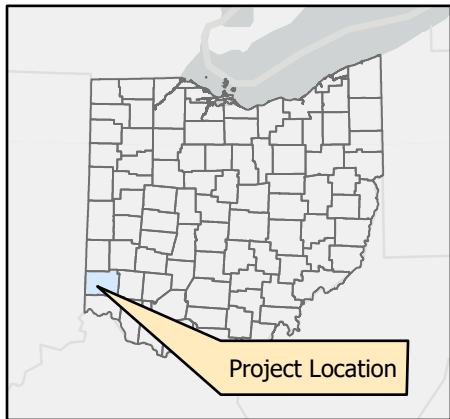
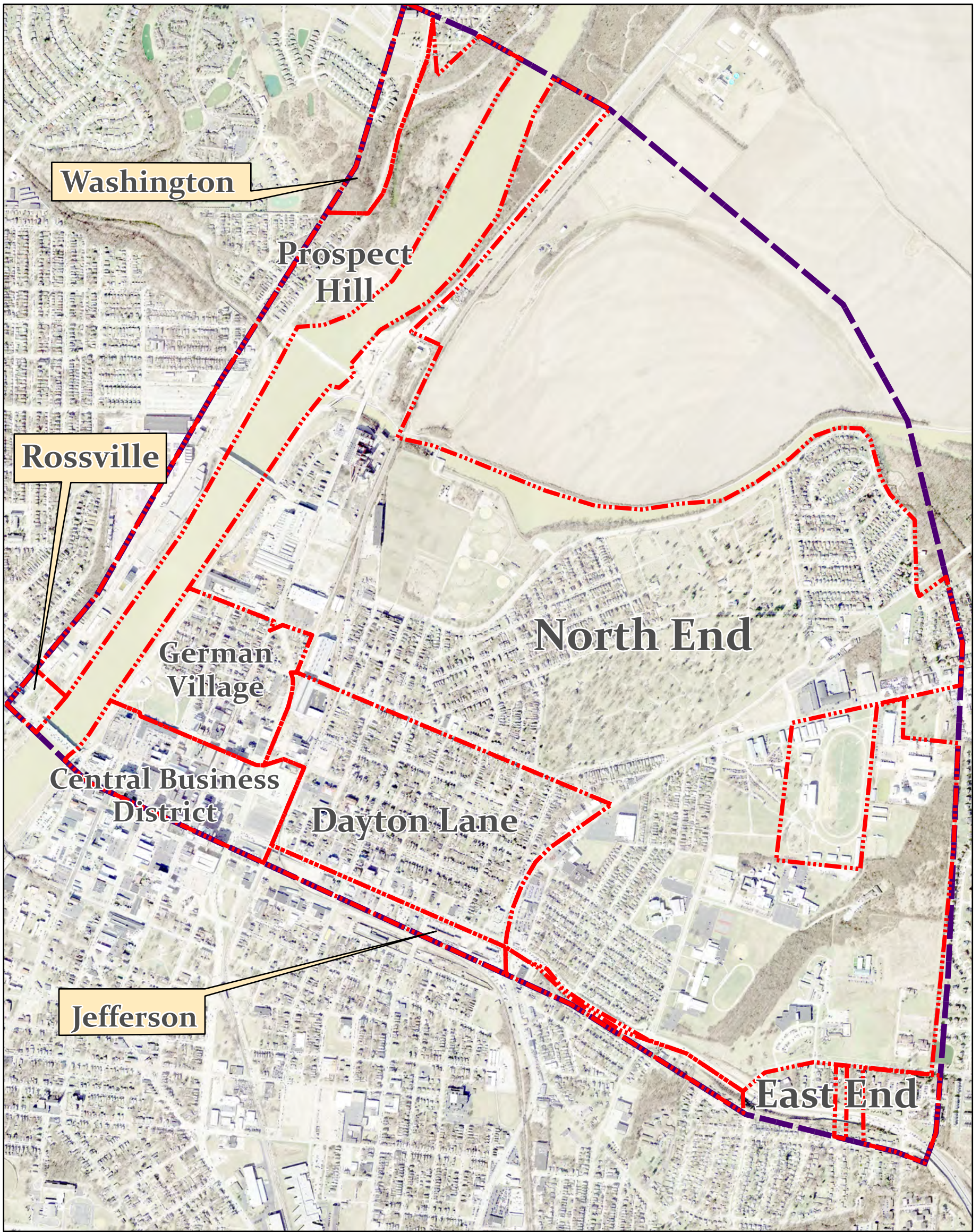
Notes
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image: World Imagery: Maxar

Legend	
BUSTR - LUST	Solid Waste Transfer Facility
● BUSTR - LUST	● Solid Waste Transfer Facility
BUSTR - UST	Spills
● BUSTR - UST	● Spills
Coal Gas Generator	VAP2
● Coal Gas Generator	● VAP2
DERR Site	Solid Waste Transfer Facility 1/4 mile buffer
● DERR Site	■ Solid Waste Transfer Facility 1/4 mile buffer
Non-NPL Site	NPL Site 1/2 mile buffer
■ Non-NPL Site	■ NPL Site 1/2 mile buffer
NPL Site	Non-NPL Site 1/10 mile buffer
■ NPL Site	■ Non-NPL Site 1/10 mile buffer
RCRA	Proposed Alignments
▲ RCRA	— Proposed Alignments
Site with Institutional Controls	Study Area
■ Site with Institutional Controls	■ Study Area



Project Location City of Hamilton, Butler County, Ohio
Client/Project North Hamilton Crossing (NHX) PID 115755 Feasibility Study
Figure No. C-7
Title ORPS Analysis Map

Prepared by RG on 2023-07-10
173620130



Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar

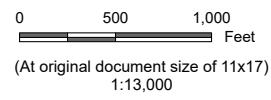
Legend

Neighborhood Boundaries

Neighborhood Boundaries

Study Area

Study Area



Project Location City of Hamilton
 Butler County, Ohio

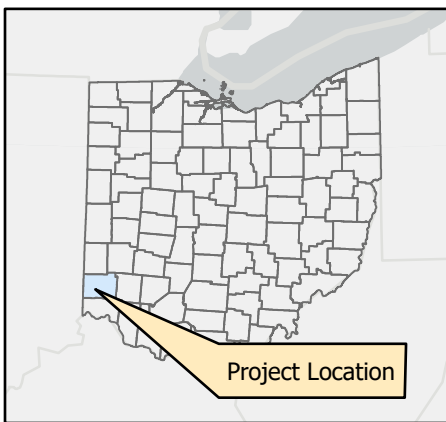
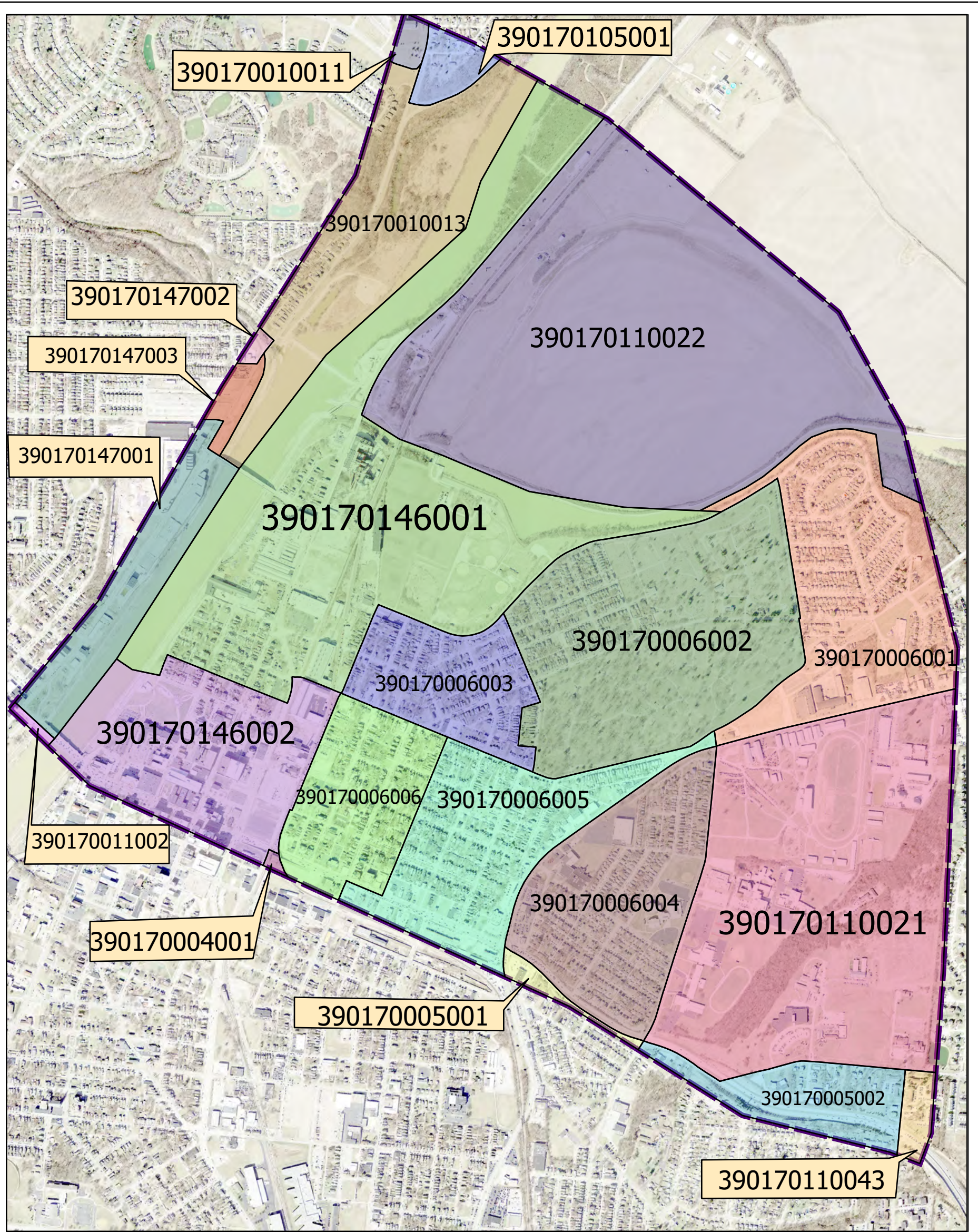
Prepared by RG on 2023-07-12

Client/Project North Hamilton Crossing (NHX) 173620130

PID 115755
 Feasibility Study

Figure No.
C-8

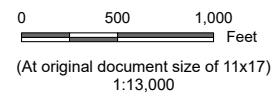
Title
Neighborhood Map



Legend

Study Area

Study Area



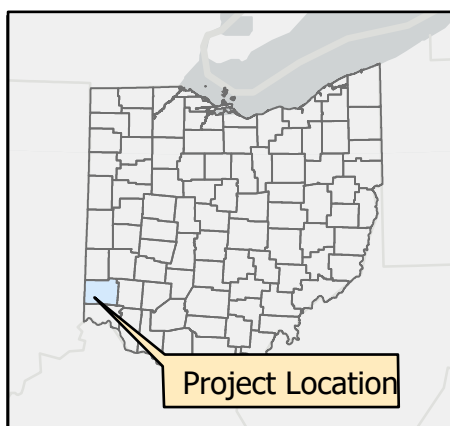
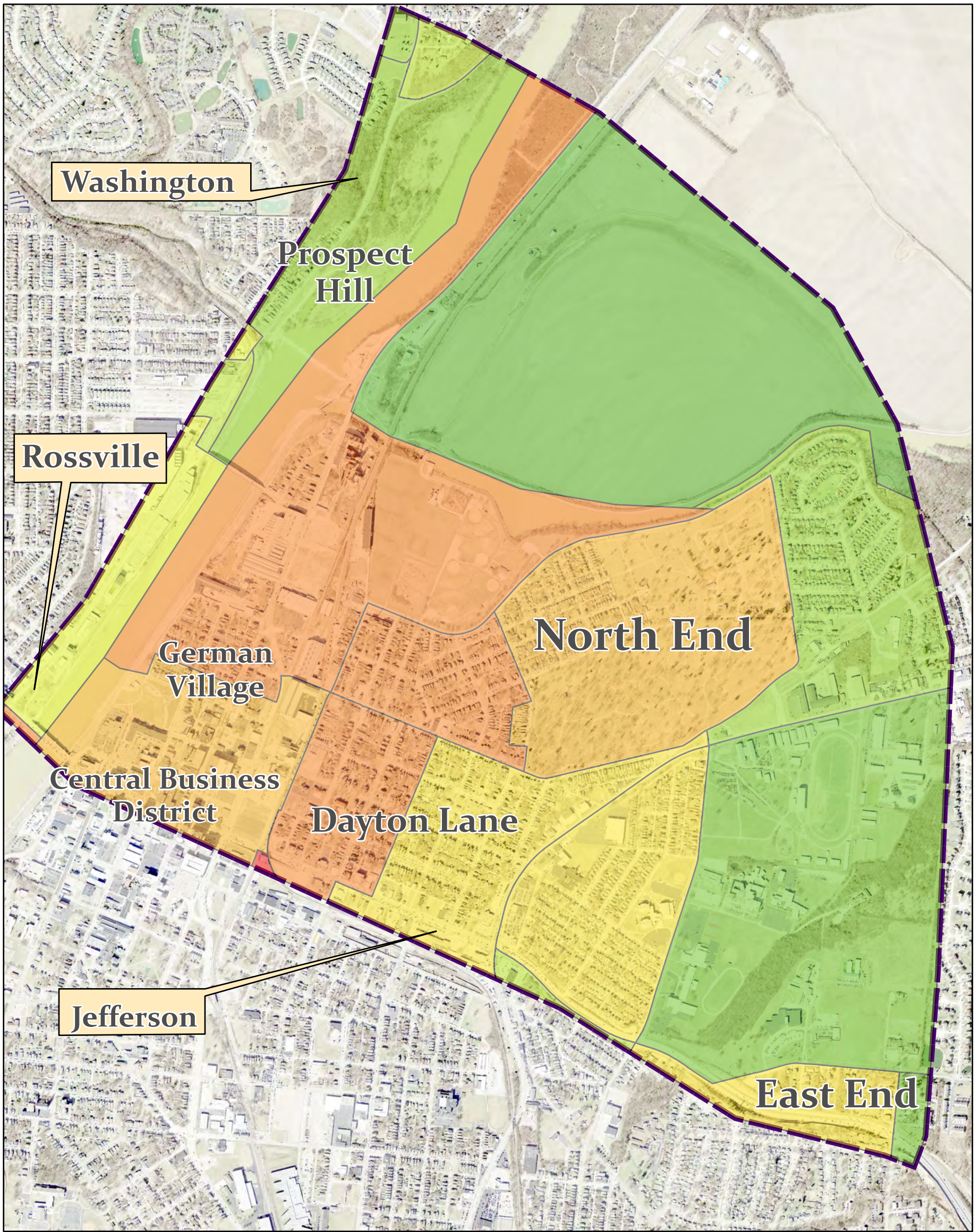
Project Location: City of Hamilton, Butler County, Ohio
 Prepared by RG on 2022-10-27

Client/Project: North Hamilton Crossing (NHX) 173620130
 PID 115755
 Feasibility Study

Figure No.
C-9

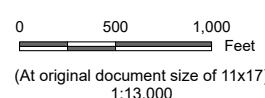
Title
Census Block Group Map

Notes
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar



Notes
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar

Legend	
<u>Low Income Percentage</u>	
	0-10
	10-20
	20-30
	30-40
	40-50
	50-60
	60-70
	70-80
	80-90
	90-100
<u>Study Area</u>	
	Study Area



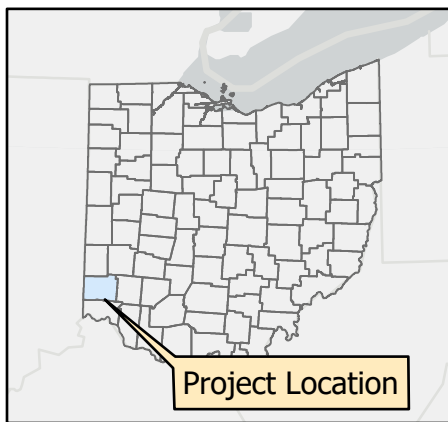
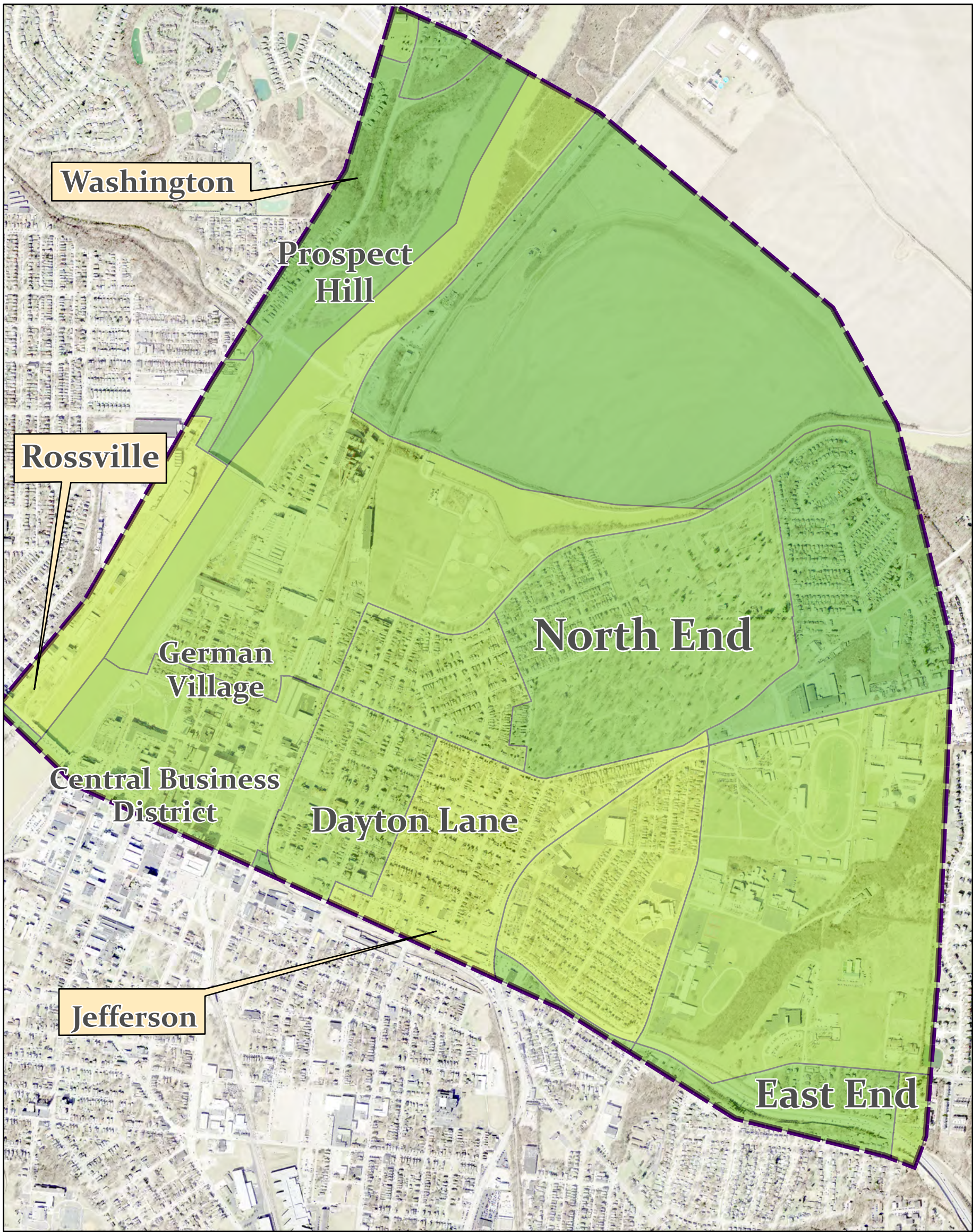
Project Location
 City of Hamilton
 Butler County, OH

Client/Project
 North Hamilton Crossing (NHX)
 PID 115755
 Feasibility Study

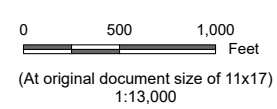
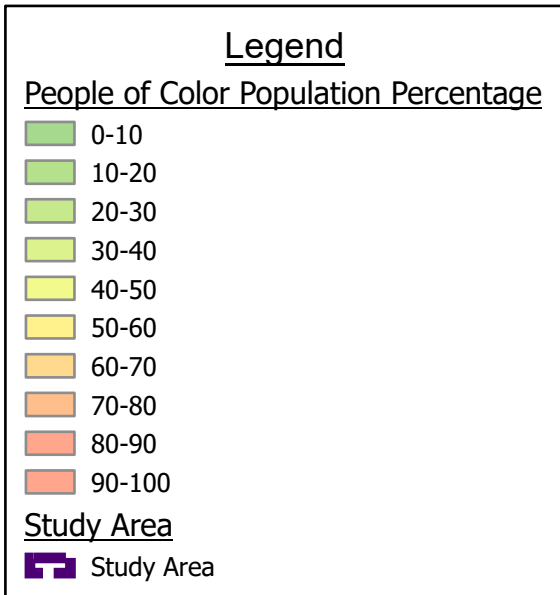
Figure No.
C-9.1

Title
Low Income Population

Prepared by RG on 2022-11-02
 173620130



Notes
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar



Project Location City of Hamilton
 Butler County, OH

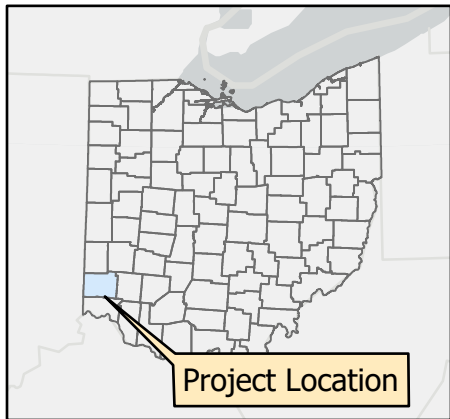
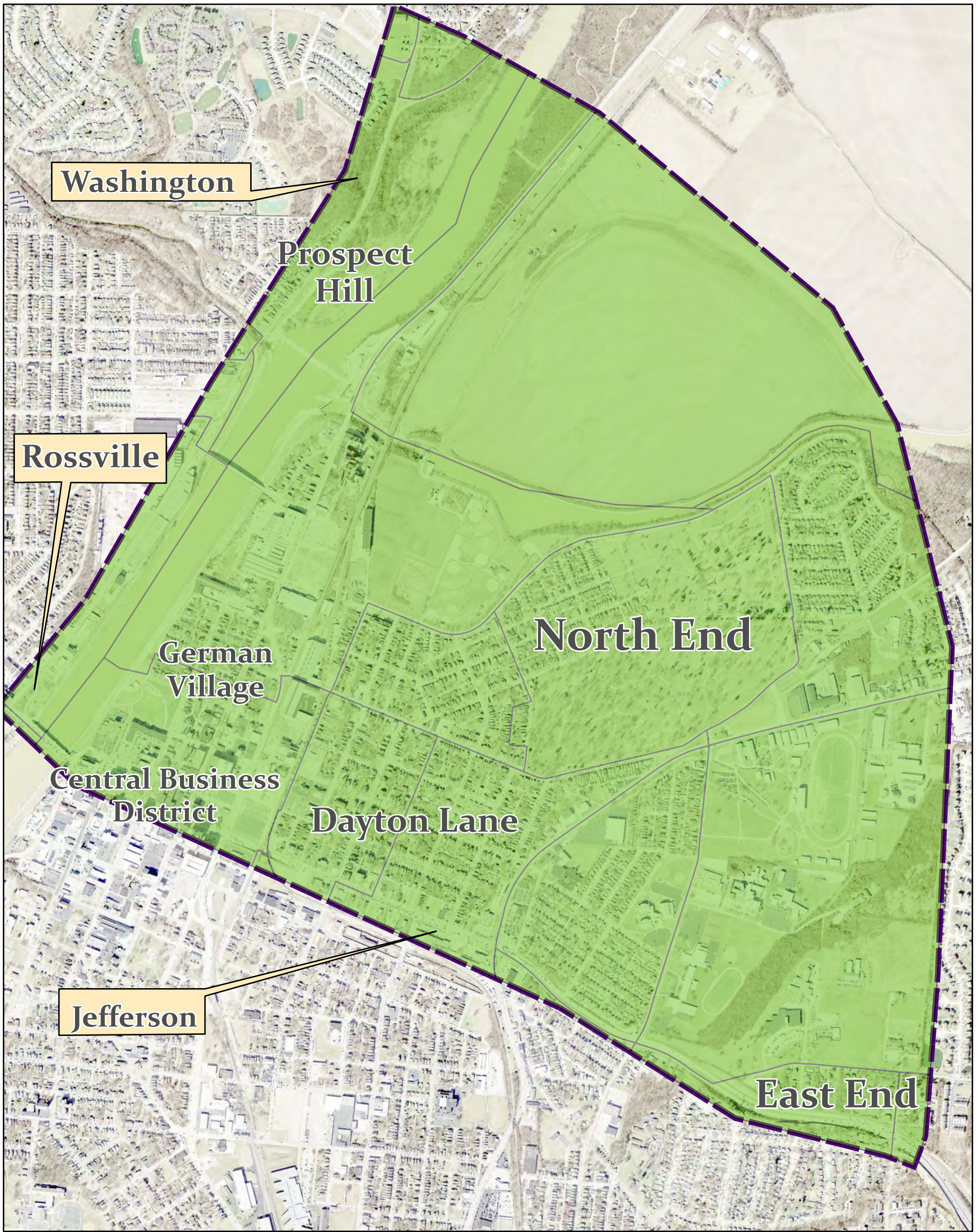
Prepared by RG on 2023-07-11

Client/Project North Hamilton Crossing (NHX) 173620130

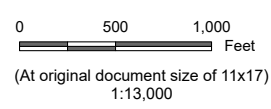
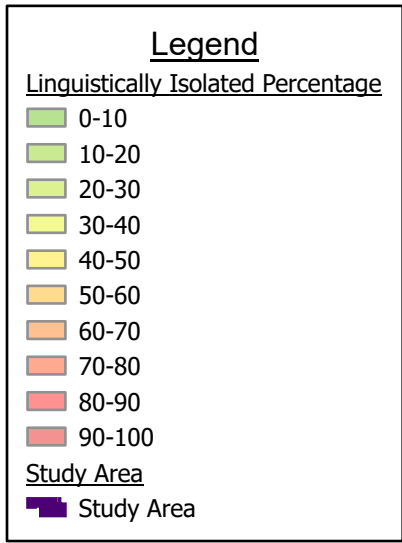
PID 115755
 Feasibility Study

Figure No.
C-9.2

Title
People of Color Population



Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image:
 World Imagery: Maxar



Project Location
 City of Hamilton
 Butler County, OH

Prepared by RG on 2023-07-11

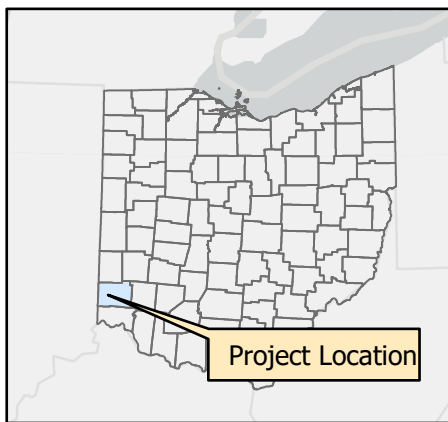
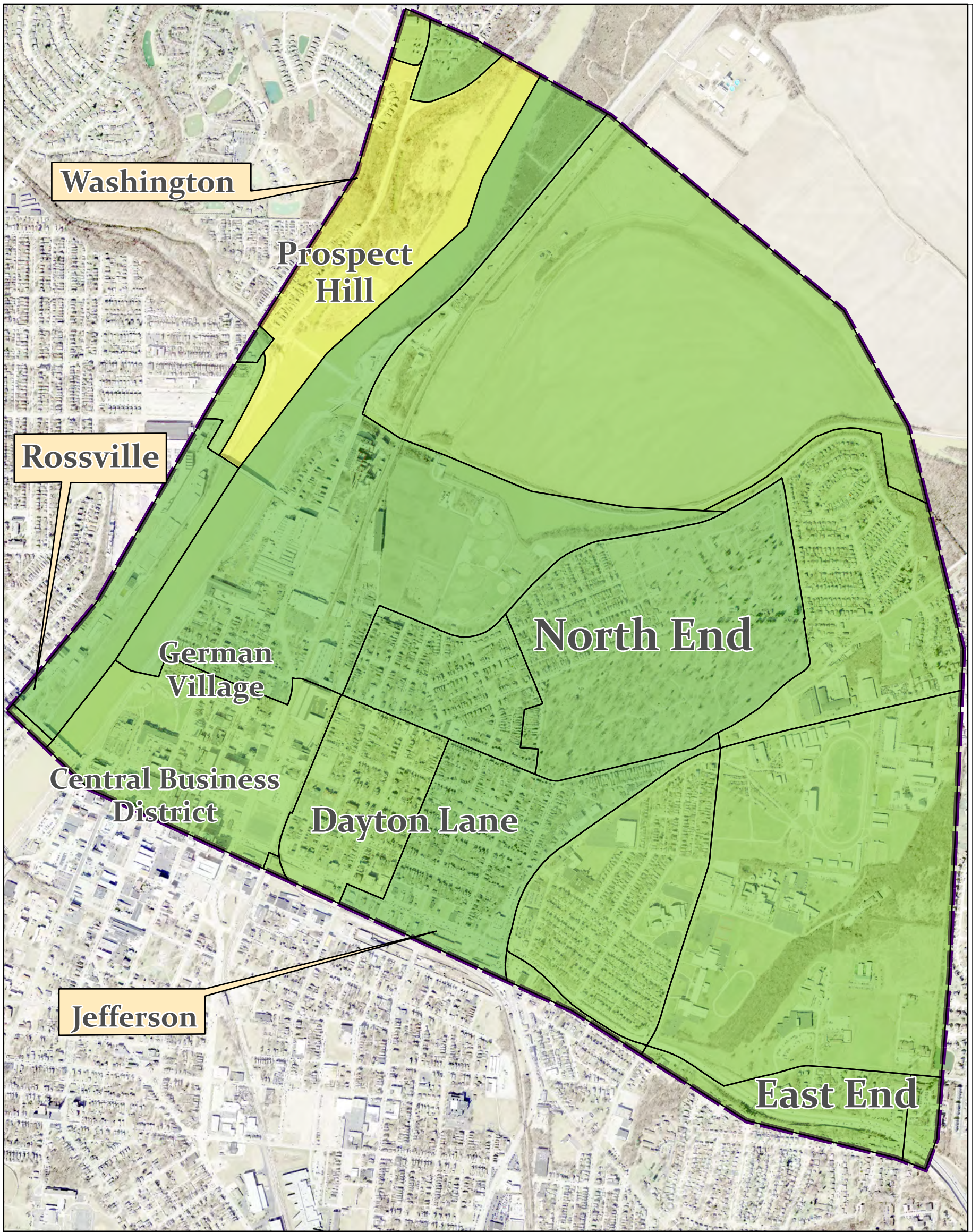
Client/Project
 North Hamilton Crossing (NHX)
 PID 115755
 Feasibility Study

173620130

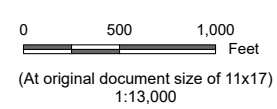
Figure No.

C-9.3

Title
Limited English Speaking Population



Notes
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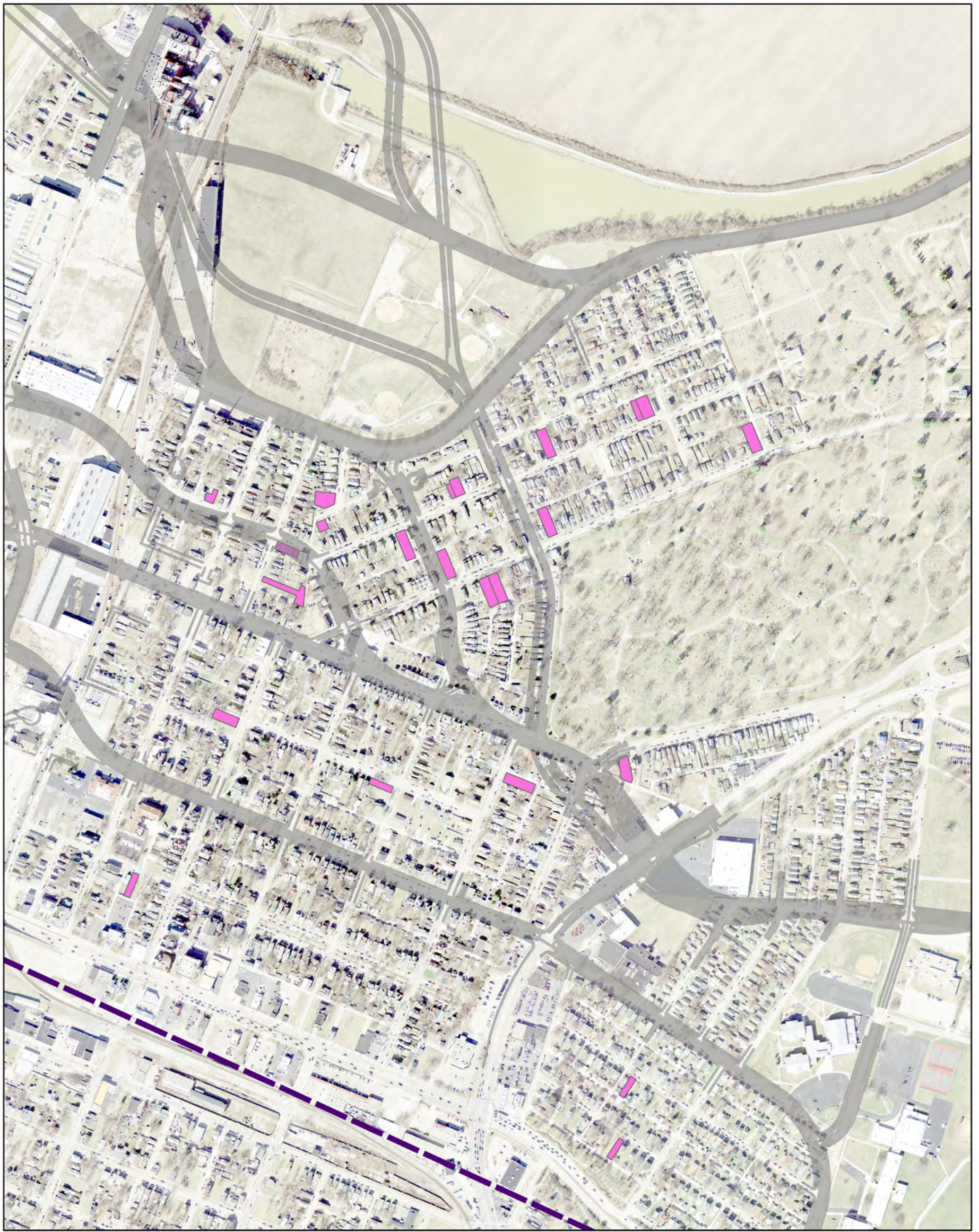


Project Location City of Hamilton, Butler County, Ohio Prepared by RG on 2023-07-11

Client/Project North Hamilton Crossing (NHX) 173620130
 PID 115755
 Feasibility Study

Figure No.
C-9.4

Title
Over Age 64 Population

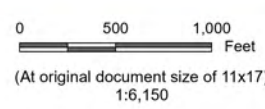


Legend

City Owned Properties
 City Owned Properties

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area



Project Location
 City of Hamilton
 Butler County, Ohio

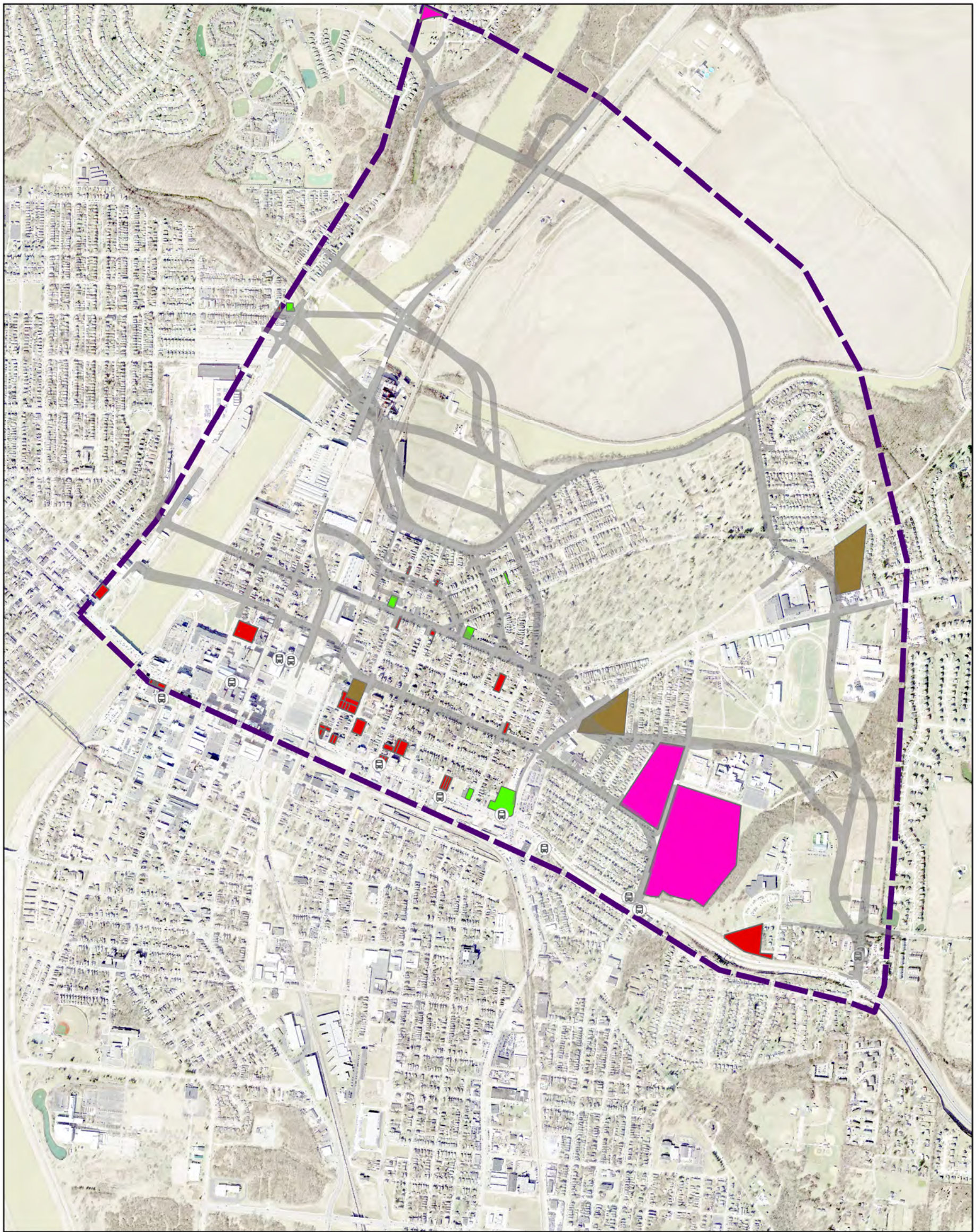
Client/Project
 North Hamilton Crossing (NHX)
 PID 115755
 Feasibility Study

Prepared by RG on 2022-03-27
 173620130

Figure No.
C-10

Title
City Owned Properties Map

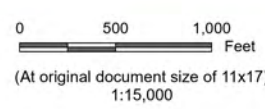
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 World Topographic Map: City of Hamilton, OH, Esri, HERE, Garmin,
 SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, USDA
 Image:
 World Hillshade: Esri, NASA, NGA, USGS, FEMA
 World Imagery: Maxar



Notes
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 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image: World Imagery: Maxar

Legend

Bus Stops Bus Stops	Religious Institutions Religious Institutions
Schools Schools	Proposed Alignments Proposed Alignments
Educational Resources Educational Resources	Study Area Study Area
Marketplaces Marketplaces	



Project Location
 City of Hamilton
 Butler County, Ohio

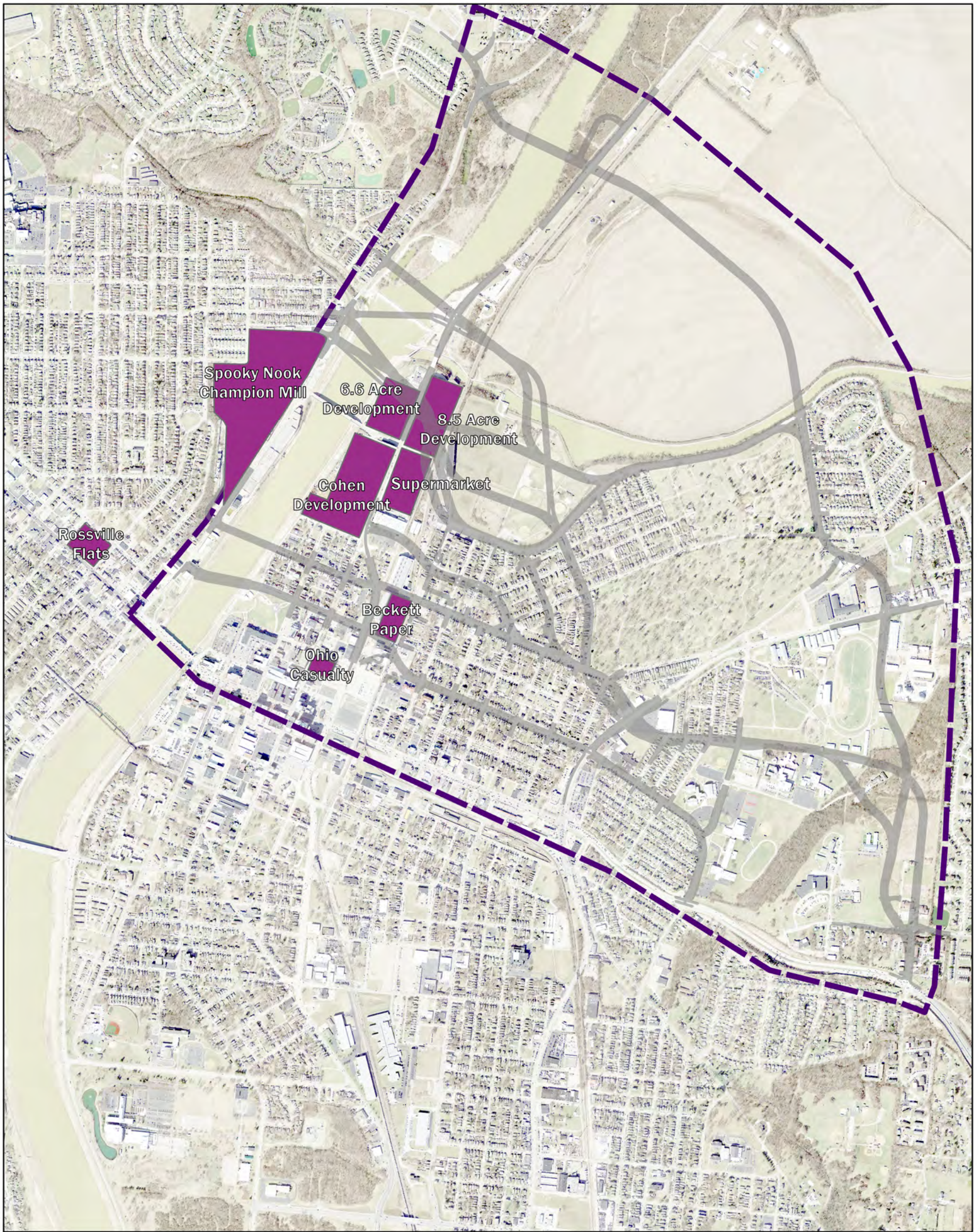
Prepared by RG on 2022-03-03

Client/Project
 North Hamilton Crossing (NHX)
 PID 115755
 Feasibility Study

173620130

Figure No.
C-11

Title
Community Features Map



Notes
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Base features produced from project design elements
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA
 Image: World Imagery: Maxar

Legend

Recent and Proposed Developments
 Recent and Proposed Developments

Proposed Alignments
 Proposed Alignments

Study Area
 Study Area

0 500 1,000 Feet
 (At original document size of 11x17)
 1:15,000



Project Location: City of Hamilton, Butler County, Ohio
 Prepared by RG on 2022-03-03

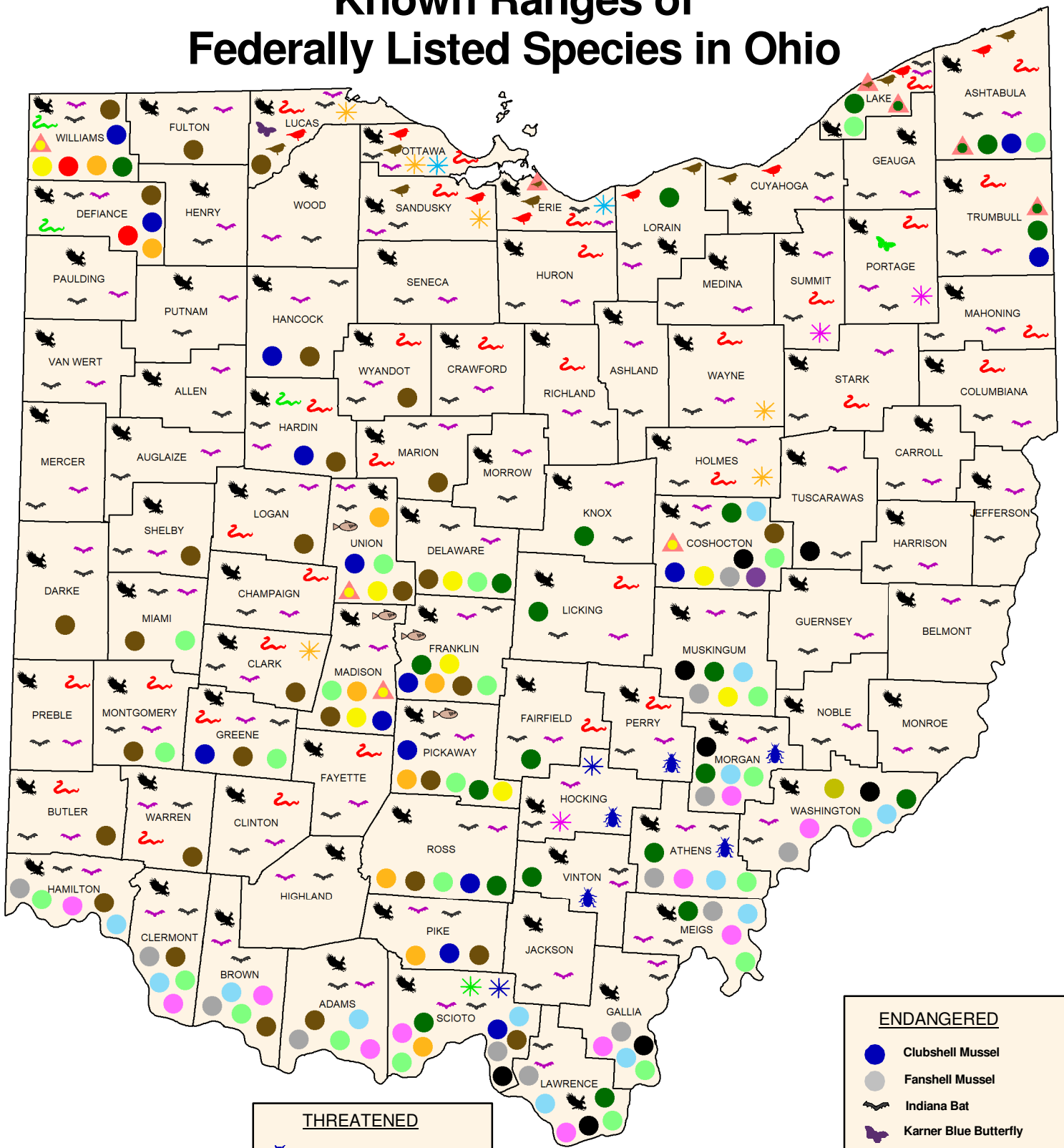
Client/Project: North Hamilton Crossing (NHX) 173620130
 PID 115755
 Feasibility Study

Figure No.
C-12

Title
Recent and Proposed Developments Map

Threatened and Endangered Species Information

Known Ranges of Federally Listed Species in Ohio



Bald and Golden Eagle Protection Act
 Bald Eagle

PROPOSED THREATENED

- Longsolid Mussel
- Round Hickorynut Mussel
- Pyramid Pigtoe

THREATENED

- American Burying Beetle
- Copperbelly Watersnake
- Eastern Massasauga Rattlesnake
- Eastern Prairie Fringed Orchid
- Lakeside Daisy
- Northern Long-eared Bat
- Northern Monkshood
- Rabbitsfoot Mussel
- Rufa Red Knot
- Small Whorled Pogonia
- Virginia Spiraea

DESIGNATED CRITICAL HABITAT
 (Location Descriptions Attached)

- Piping Plover
- Rabbitsfoot Mussel
- Round Hickorynut Mussel (proposed)

ENDANGERED

- Clubshell Mussel
- Fanshell Mussel
- Indiana Bat
- Karner Blue Butterfly
- Mitchell's Satyr
- Northern Riffleshell Mussel
- Pink Mucket Pearly Mussel
- Piping Plover
- Purple Cat's Paw Pearly Mussel
- Rayed Bean Mussel
- Scioto Madtom
- Sheepnose Mussel
- Snuffbox Mussel
- White Cat's Paw Pearly Mussel



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
 4625 Morse Road, Suite 104
 Columbus, Ohio 43230
 (614) 416-8993 / FAX (614) 416-8994

September 2021

Federally Endangered and Threatened Species in Ohio

SPECIES	Counties of Current, Recent, and Possible Distribution
Indiana Bat (E) <i>Myotis sodalis</i>	All counties in Ohio
Northern Long-Eared Bat (T) <i>Myotis septentrionalis</i>	All counties in Ohio
Piping Plover (E) <i>Charadrius melodus</i>	Ashtabula, Cuyahoga, Erie (CH), Lake (CH), Lorain, Lucas, Ottawa, Sandusky
Rufa Red Knot (T) (<i>Calidris canutus rufa</i>)	Ashtabula, Cuyahoga, Erie, Lake, Lorain, Lucas, Ottawa, Sandusky
Scioto Madtom (E) <i>Noturus trautmani</i>	Franklin, Madison, Pickaway, Union
Clubshell (E) <i>Pleurobema clava</i>	Ashtabula, Coshocton, Defiance, Franklin, Greene, Hancock, Hardin, Madison, Pickaway, Pike, Ross, Scioto, Trumbull, Union, Williams
Fanshell (E) <i>Cyprogenia stegaria</i>	Adams, Athens, Brown, Clermont, Coshocton, Gallia, Hamilton, Lawrence, Meigs, Morgan, Muskingum, Scioto, Washington
Northern Riffleshell (E) <i>Epioblasma torulosa rangiana</i>	Defiance, Franklin, Madison, Pickaway, Pike, Ross, Scioto, Union, Williams
Pink Mucket Pearly Mussel (E) <i>Lampsilis abrupta</i>	Adams, Athens, Brown, Clermont, Gallia, Hamilton, Lawrence, Meigs, Morgan, Scioto, Washington
Purple Cat's Paw Pearlymussel (E) <i>Epioblasma o. obliquata</i>	Coshocton
Rayed Bean (E) <i>Villosa fabalis</i>	Adams, Brown, Butler, Clark, Clermont, Coshocton, Darke, Defiance, Delaware, Franklin, Fulton, Greene, Hamilton, Hancock, Hardin, Logan, Lucas, Madison, Marion, Miami, Montgomery, Pickaway, Pike, Ross, Scioto, Shelby, Union, Warren, Williams, Wyandot
Sheepnose (E) <i>Plethobasus cyphus</i>	Adams, Athens, Brown, Clermont, Coshocton, Gallia, Hamilton, Lawrence, Meigs, Morgan, Muskingum, Scioto, Washington

Snuffbox (E) <i>Epioblasma triquetra</i>	Adams, Ashtabula, Athens, Brown, Clermont, Coshocton, Delaware, Franklin, Gallia, Greene, Hamilton, Lake, Lawrence, Madison, Meigs, Miami, Montgomery, Morgan, Muskingum, Pickaway, Ross, Scioto, Union, Washington
White Cat's Paw Pearly Mussel (E) <i>Epioblasma obliquata perobliqua</i>	Defiance, Williams
Rabbitsfoot (T) <i>Quadrula c. cylindrica</i>	Coshocton (CH), Franklin, Delaware, Madison (CH), Muskingum, Pickaway, Union (CH), Williams (CH)
Longsolid (PT) <i>Fusconaia subrotunda</i>	Coshocton, Gallia, Lawrence, Morgan, Muskingum, Scioto, Tuscarawas, Washington
Round Hickorynut (PT) <i>Obovaria subrotunda</i>	Athens, Ashtabula (PCH), Coshocton, Delaware, Fairfield, Franklin, Knox, Lake (PCH), Lawrence, Licking, Lorain, Meigs, Morgan, Muskingum, Pickaway, Ross, Scioto, Trumbull (PCH), Washington, Williams, Vinton
Pyramid Pigtoe (PT) <i>Pleurobema rubrum</i>	Washington
American Burying Beetle (T) <i>Nicrophorus americanus</i>	Athens, Hocking, Morgan, Perry, Vinton
Karner Blue Butterfly (E) <i>Lycaeides melissa samuelis</i>	Lucas
Mitchell's Satyr (E) <i>Neonympha m. mitchellii</i>	Portage
Eastern Prairie Fringed Orchid (T) <i>Platanthera leucophaea</i>	Clark, Holmes, Lucas, Ottawa, Sandusky, Wayne
Lakeside Daisy (T) <i>Hymenoxys herbacea</i>	Erie, Ottawa
Northern Monkshood (T) <i>Aconitum noveboracense</i>	Hocking, Portage, Summit
Small Whorled Pogonia (T) <i>Isotria medeoloides</i>	Hocking, Scioto
Virginia Spiraea (T) <i>Spiraea virginiana</i>	Scioto
Copperbelly Water Snake (T) <i>Nerodia erythrogaster neglecta</i>	Defiance, Hardin, Williams
Eastern Massasauga (T) <i>Sistrurus catenatus</i>	Ashtabula, Butler, Champaign, Clark, Clinton, Columbiana, Crawford, Erie, Fairfield, Fayette, Greene, Hardin, Holmes, Huron, Lake, Licking, Logan, Lucas, Mahoning, Marion, Montgomery, Ottawa, Perry, Portage, Preble, Richland, Sandusky, Stark, Summit, Trumbull, Warren, Wayne,

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E = Endangered

T = Threatened

PT = Proposed Threatened

CH = Critical Habitat

PCH = Proposed Critical Habitat



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
 4625 Morse Road, Suite 104
 Columbus, Ohio 43230
 (614) 416-8993 / FAX (614) 416-8994

September 2021

County List of Federally Endangered and Threatened Species in Ohio

COUNTY	SPECIES
ADAMS	Indiana bat (E), northern long-eared bat (T), fanshell (E), rayed bean (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E)
ALLEN	Indiana bat (E), northern long-eared bat (T)
ASHLAND	Indiana bat (E), northern long-eared bat (T)
ASHTABULA	Indiana bat (E), northern long-eared bat (T), piping plover (E), clubshell (E), snuffbox (E), rufa red knot (T), eastern massasauga (T), round hickorynut (PT/PCH)
ATHENS	Indiana bat (E), northern long-eared bat (T), American burying beetle (T), fanshell (E), sheepnose (E), pink mucket pearly mussel (E), snuffbox (E), round hickorynut (PT)
AUGLAIZE	Indiana bat (E), northern long-eared bat (T)
BELMONT	Indiana bat (E), northern long-eared bat (T)
BROWN	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E)
BUTLER	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (T)
CARROLL	Indiana bat (E), northern long-eared bat (T)
CHAMPAIGN	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
CLARK	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern prairie fringed orchid (T), eastern massasauga (T)
CLERMONT	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E)
CLINTON	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
COLUMBIANA	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
COSHOCTON	Indiana bat (E), northern long-eared bat (T), clubshell (E), fanshell (E), rayed bean (E), purple cat's paw pearly mussel (E), sheepnose (E), snuffbox (E), rabbitsfoot (T/CH), round hickorynut (PT), longsolid (PT)

CRAWFORD	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
CUYAHOGA	Indiana bat (E), northern long-eared bat (T), piping plover (E), rufa red knot (T)
DARKE	Indiana bat (E), northern long-eared bat (T), rayed bean (E)
DEFIANCE	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), white cat's paw pearly mussel (E), rayed bean (E), copperbelly water snake (T)
DELAWARE	Indiana bat (E), northern long-eared bat (T), rayed bean (E), snuffbox (E), rabbitsfoot (T), round hickorynut (PT)
ERIE	Indiana bat (E), northern long-eared bat (T), piping plover (E/CH), Lakeside daisy (T), rufa red knot (T), eastern massasauga (T)
FAIRFIELD	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T), round hickorynut (PT)
FAYETTE	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
FRANKLIN	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T), round hickorynut (PT)
FULTON	Indiana bat (E), northern long-eared bat (T), rayed bean (E)
GALLIA	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepnose (E), snuffbox (E), longsolid (PT)
GEAUGA	Indiana bat (E), northern long-eared bat (T)
GREENE	Indiana bat (E), northern long-eared bat (T), clubshell (E), rayed bean (E), snuffbox (E), eastern massasauga (T)
GUERNSEY	Indiana bat (E), northern long-eared bat (T)
HAMILTON	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepnose (E), snuffbox (E)
HANCOCK	Indiana bat (E), northern long-eared bat (T), clubshell (E), rayed bean (E)
HARDIN	Indiana bat (E), northern long-eared bat (T), clubshell (E), rayed bean (E), copperbelly water snake (T), eastern massasauga (T)
HARRISON	Indiana bat (E), northern long-eared bat (T)
HENRY	Indiana bat (E), northern long-eared bat (T)
HIGHLAND	Indiana bat (E), northern long-eared bat (T)
HOCKING	Indiana bat (E), northern long-eared bat (T), American burying beetle (T), northern monkshood (T), small whorled pogonia (T)
HOLMES	Indiana bat (E), northern long-eared bat (T), eastern prairie fringed orchid (T), eastern massasauga (T)
HURON	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
JACKSON	Indiana bat (E), northern long-eared bat (T)

JEFFERSON	Indiana bat (E), northern long-eared bat (T)
KNOX	Indiana bat (E), northern long-eared bat (T), round hickorynut (PT)
LAKE	Indiana bat (E), northern long-eared bat (T), piping plover (E/CH), snuffbox (E), rufa red knot (T), eastern massasauga (T), round hickorynut (PT/PCH)
LAWRENCE	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepsnose (E), snuffbox (E), round hickorynut (PT), longsolid (PT)
LICKING	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T), round hickorynut (PT)
LOGAN	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (T)
LORAIN	Indiana bat (E), northern long-eared bat (T), piping plover (E), rufa red knot (T), round hickorynut (PT)
LUCAS	Indiana bat (E), northern long-eared bat (T), Karner blue butterfly (E), piping plover (E), rayed bean (E), eastern prairie fringed orchid (T), rufa red knot (T), eastern massasauga (T)
MADISON	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T/CH)
MAHONING	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
MARION	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (T)
MEDINA	Indiana bat (E), northern long-eared bat (T)
MEIGS	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepsnose (E), snuffbox (E), round hickorynut (PT)
MERCER	Indiana bat (E), northern long-eared bat (T)
MIAMI	Indiana bat (E), northern long-eared bat (T), rayed bean (E), snuffbox (E)
MONROE	Indiana bat (E), northern long-eared bat (T)
MONTGOMERY	Indiana bat (E), northern long-eared bat (T), rayed bean (E), snuffbox (E), eastern massasauga (T)
MORGAN	Indiana bat (E), northern long-eared bat (T), American burying beetle (T), fanshell (E), pink mucket pearly mussel (E), sheepsnose (E), snuffbox (E), round hickorynut (PT), longsolid (PT)
MORROW	Indiana bat (E), northern long-eared bat (T)
MUSKINGUM	Indiana bat (E), northern long-eared bat (T), fanshell (E), sheepsnose (E), snuffbox (E), rabbitsfoot (T), round hickorynut (PT), longsolid (PT)
NOBLE	Indiana bat (E), northern long-eared bat (T)
OTTAWA	Indiana bat (E), northern long-eared bat (T), piping plover (E), eastern prairie fringed orchid (T), Lakeside daisy (T), rufa red knot (T), eastern massasauga (T)
PAULDING	Indiana bat (E), northern long-eared bat (T)
PERRY	Indiana bat (E), northern long-eared bat (T), American burying beetle (T), eastern massasauga (T)

PICKAWAY	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T), round hickorynut (PT)
PIKE	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), rayed bean (E)
PORTAGE	Indiana bat (E), northern long-eared bat (T), Mitchell's satyr (E), northern monkshood (T), eastern massasauga (T)
PREBLE	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
PUTNAM	Indiana bat (E), northern long-eared bat (T)
RICHLAND	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
ROSS	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), round hickorynut (PT)
SANDUSKY	Indiana bat (E), northern long-eared bat (T), piping plover (E), eastern prairie fringed orchid (T), rufa red knot (T), eastern massasauga (T)
SCIOTO	Indiana bat (E), northern long-eared bat (T), clubshell (E), fanshell (E), northern riffleshell (E), pink mucket pearly mussel (E), rayed bean (E), sheepsnose (E), snuffbox (E), small whorled pogonia (T), Virginia spiraea (T), round hickorynut (PT), longsolid (PT)
SENECA	Indiana bat (E), northern long-eared bat (T)
SHELBY	Indiana bat (E), northern long-eared bat (T), rayed bean (E)
STARK	Indiana bat (E), northern long-eared bat (T), eastern massasauga (T)
SUMMIT	Indiana bat (E), northern long-eared bat (T), northern monkshood (T), eastern massasauga (T)
TRUMBULL	Indiana bat (E), northern long-eared bat (T), clubshell (E), eastern massasauga (T), round hickorynut (PT/PCH)
TUSCARAWAS	Indiana bat (E), northern long-eared bat (T), longsolid (PT)
UNION	Indiana bat (E), northern long-eared bat (T), Scioto madtom (E), clubshell (E), northern riffleshell (E), rayed bean (E), snuffbox (E), rabbitsfoot (T/CH)
VAN WERT	Indiana bat (E), northern long-eared bat (T)
VINTON	Indiana bat (E), northern long-eared bat (T), American burying beetle (T), round hickorynut (PT)
WARREN	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (T)
WASHINGTON	Indiana bat (E), northern long-eared bat (T), fanshell (E), pink mucket pearly mussel (E), sheepsnose (E), snuffbox (E), round hickorynut (PT), longsolid (PT), pyramid pigtoe (PT)
WAYNE	Indiana bat (E), northern long-eared bat (T), eastern prairie fringed orchid (T), eastern massasauga (T)
WILLIAMS	Indiana bat (E), northern long-eared bat (T), clubshell (E), northern riffleshell (E), rayed bean (E), white cat's paw pearly mussel (E), rabbitsfoot (T/CH), copperbelly water snake (T), round hickorynut (PT)

WOOD	Indiana bat (E), northern long-eared bat (T)
WYANDOT	Indiana bat (E), northern long-eared bat (T), rayed bean (E), eastern massasauga (T)

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FEDERALLY LISTED MUSSELS OCCURRING IN OHIO

Listed Species	Habitat	Ohio Streams (Counties)
<p>Clubshell (E) <i>Pleurobema clava</i></p>	<p>Streams and small rivers with clean, coarse sand and gravel runs, often downstream of a riffle.</p>	<p>Big Darby Creek - <i>Franklin, Madison, Pickaway, Union</i> Blanchard River - <i>Hancock, Hardin</i> Fish Creek - <i>Williams</i> Little Darby Creek - <i>Franklin, Madison, Union</i> Little Miami River - <i>Greene</i> Pymatuning Creek - <i>Ashtabula, Trumbull</i> Scioto River - <i>Franklin, Pickaway, Pike, Ross, Scioto</i> St. Joseph River - <i>Defiance, Williams</i> Treacle Creek - <i>Union</i> Walhonding River - <i>Coshocton</i></p>
<p>Fanshell (E) <i>Cyprogenia stegaria</i></p>	<p>Medium to large rivers with gravel in relatively deep water with moderate current.</p>	<p>Killbuck Creek - <i>Coshocton</i> Muskingum River - <i>Coshocton, Morgan, Muskingum, Washington</i> Ohio River - <i>Adams, Athens, Brown, Clermont, Gallia, Hamilton, Lawrence, Meigs, Scioto, Washington</i> Walhonding River - <i>Coshocton</i></p>
<p>Northern Riffleshell (E) <i>Epioblasma torulosa rangiana</i></p>	<p>Stream riffles and runs with firm sand and gravel.</p>	<p>Big Darby Creek - <i>Franklin, Madison, Pickaway, Union</i> Fish Creek - <i>Williams</i> Little Darby Creek - <i>Franklin, Madison, Union</i> Scioto River - <i>Franklin, Pickaway, Pike, Ross, Scioto</i> St. Joseph River - <i>Defiance, Williams</i></p>
<p>Pink Mucket Pearly Mussel (E) <i>Lampsilis abrupta</i></p>	<p>Large rivers in shallow riffles to deep water with boulders, gravel, sand, or silt substrates.</p>	<p>Muskingum River (lower) - <i>Morgan, Washington</i> Ohio River - <i>Adams, Athens, Brown, Clermont, Gallia, Hamilton, Lawrence, Meigs, Scioto, Washington</i></p>
<p>Purple Cat's Paw Pearly Mussel (E) <i>Epioblasma obliquata obliquata</i></p>	<p>Medium to large rivers with boulder to sandy substrates; in water of shallow to moderate depth with moderate to swift currents.</p>	<p>Killbuck Creek - <i>Coshocton</i> Walhonding River - <i>Coshocton</i></p>

<p>Rabbitsfoot (T) <i>Quadrula c. cylindrica</i></p>	<p>Small to medium-sized streams and some larger rivers in shallow areas along the bank and adjacent runs and shoals where the water velocity is reduced. May also occur in deep water runs, having been reported in 9-12 feet of water. Bottom substrates generally include sand and gravel.</p>	<p>Big Darby Creek - Franklin, Madison, Pickaway, Union Fish Creek – Williams (CH) Little Darby Creek - Franklin, Madison (CH), Union (CH) Mohican River – Coshocton Muskingum River – Coshocton, Muskingum Olentangy River – Delaware Walhonding River – Coshocton (CH)</p>
<p>Rayed Bean (E) <i>Villosa fabalis</i></p>	<p>Stream and small rivers with clean, coarse sand and gravel runs.</p>	<p>Big Darby Creek - Franklin, Madison, Pickaway, Union Blanchard River - Hancock, Hardin East Fork Little Miami River - Brown, Clermont Fish Creek – Williams Great Miami River – Butler, Hamilton, Logan, Miami, Shelby, Warren Little Darby Creek - Franklin, Madison, Union Little Miami River – Clark, Clermont, Greene, Hamilton, Warren Mill Creek - Delaware, Union Scioto Brush Creek – Adams, Scioto Scioto River - Franklin, Pickaway, Pike, Ross, Scioto St. Joseph River - Defiance, Williams Stillwater River – Darke, Miami, Montgomery Swan Creek - Fulton, Lucas Tymochtee Creek – Marion, Wyandot Walhonding River - Coshocton</p>
<p>Sheepnose (E) <i>Plethobasus cyphus</i></p>	<p>Primarily a larger-stream species. It occurs primarily in shallow shoal habitats with moderate to swift currents over coarse sand and gravel. Habitats with sheepnose may also have mud, cobble, and boulders.</p>	<p>Muskingum River - Coshocton, Morgan, Muskingum, Washington Ohio River - Adams, Athens, Brown, Clermont, Gallia, Hamilton, Lawrence, Meigs, Scioto, Washington Walhonding River - Coshocton</p>

<p>Snuffbox (E) <i>Epioblasma triquetra</i></p>	<p>It is found in small to medium-sized creeks to larger rivers. Typically occurs in swift currents with gravel and sand with occasional cobble and boulders.</p>	<p>Big Darby Creek - <i>Franklin, Madison, Pickaway, Union</i> Grand River - <i>Ashtabula, Lake</i> Killbuck Creek - <i>Coshocton</i> Little Darby Creek - <i>Franklin, Madison, Union</i> Little Miami River - <i>Greene</i> Muskingum River - <i>Coshocton, Morgan, Muskingum, Washington</i> Ohio River - <i>Adams, Athens, Brown, Clermont, Gallia, Hamilton, Lawrence, Meigs, Scioto, Washington</i> Olentangy River - <i>Delaware</i> Salt Creek - <i>Ross</i> Scioto Brush Creek - <i>Adams, Scioto</i> South Fork Scioto Brush Creek - <i>Adams, Scioto</i> Stillwater River - <i>Miami, Montgomery</i> Walhonding River - <i>Coshocton</i></p>
<p>White Cat's Paw Pearly Mussel (E) <i>Epioblasma obliquata perobliqua</i></p>	<p>Small to medium-sized streams with coarse gravel and sand; in fast-flowing riffles and runs.</p>	<p>Fish Creek - <i>Williams</i> St. Joseph River - <i>Defiance, Williams</i></p>
<p>Longsolid (PT) <i>Fusconaia subrotunda</i></p>	<p>In small rivers in sand gravel in habitat: may also be found in large river in coarse gravel and cobble habitat</p>	<p>Ohio River - <i>Gallia, Lawrence, Scioto</i> Muskingum River - <i>Morgan, Muskingum, Washington</i> Tuscarawas River - <i>Coshocton, Tuscarawas</i> Walhonding River - <i>Coshocton</i></p>

<p>Round Hickorynut (PT) <i>Obovaria subrotunda</i></p>	<p>In streams and rivers in areas with sand and gravel in riffle and run habitats; may also be found in sandy mud in rivers</p>	<p>Alum Creek – Delaware, Franklin Big Darby Creek – Franklin, Pickaway Big Walnut Creek – Franklin, Pickaway Black River – Lorain East Branch Shade River – Meigs Federal Creek – Athens Fish Creek – Williams Grand River – Ashtabula, Lake, Trumbull Killbuck Creek – Coshocton Little Muskingum River - Washington Middle Branch Shade River – Meigs Middle Fork Salt Creek – Vinton, Ross Mill Creek (trib. to the Grand River) – Ashtabula Mill Creek (trib. to the Walhonding River) – Coshocton Muskingum River – Coshocton, Morgan, Muskingum, Washington Ohio River – Washington Rocky Fork Little Scioto River – Scioto Scioto River – Pickaway, Ross Symmes Creek – Lawrence Walhonding River – Coshocton Wakatomika Creek – Muskingum, Knox, Licking, Coshocton Walnut Creek – Fairfield, Franklin, Pickaway</p>
<p>Pyramid Pigtoe (PT) <i>Pleurobema rubrum</i></p>	<p>In medium to large rivers, preferring a mixture of sand, gravel, and cobble stream bottoms</p>	<p>Muskingum River – Washington</p>
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Butler County State Listed Animal Species

Common Name	Scientific Name	Group	State Status	Federal Status
Cave Salamander	<i>Eurycea lucifuga</i>	Amphibian	Endangered	
Upland Sandpiper	<i>Bartramia longicauda</i>	Bird	Endangered	
Lark Sparrow	<i>Chondestes grammacus</i>	Bird	Endangered	
Plains Clubtail	<i>Gomphus externus</i>	Dragonfly	Endangered	
Blue corporal	<i>Ladona deplanata</i>	Dragonfly	Endangered	
Tonguetied Minnow	<i>Exoglossum laurae</i>	Fish	Endangered	
Indiana Myotis	<i>Myotis sodalis</i>	Mammal	Endangered	Endangered
Least Bittern	<i>Ixobrychus exilis</i>	Bird	Threatened	
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	Bird	Threatened	
Sloan's Crayfish	<i>Orconectes (Rhoadesius) sloanii</i>	Crayfish	Threatened	
American Eel	<i>Anguilla rostrata</i>	Fish	Threatened	
Black Sandshell	<i>Ligumia recta</i>	Mollusk	Threatened	
Fawnsfoot	<i>Truncilla donaciformis</i>	Mollusk	Threatened	
Kirtland's Snake	<i>Clonophis kirtlandii</i>	Reptile	Threatened	
Eastern Cricket Frog	<i>Acris crepitans crepitans</i>	Amphibian	Species of Concern	
Sharp-shinned Hawk	<i>Accipiter striatus</i>	Bird	Species of Concern	
Henslow's Sparrow	<i>Ammodramus henslowii</i>	Bird	Species of Concern	
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Bird	Species of Concern	
Great Egret	<i>Ardea alba</i>	Bird	Species of Concern	
Common Nighthawk	<i>Chordeiles minor</i>	Bird	Species of Concern	



Common Name	Scientific Name	Group	State Status	Federal Status
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Bird	Species of Concern	
Northern Bobwhite	<i>Colinus virginianus</i>	Bird	Species of Concern	
Bobolink	<i>Dolichonyx oryzivorus</i>	Bird	Species of Concern	
American Coot	<i>Fulica americana</i>	Bird	Species of Concern	
Common Gallinule	<i>Gallinula galeata</i>	Bird	Species of Concern	
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	Bird	Species of Concern	
Vesper Sparrow	<i>Pooecetes gramineus</i>	Bird	Species of Concern	
Sora Rail	<i>Porzana carolina</i>	Bird	Species of Concern	
Prothonotary Warbler	<i>Protonotaria citrea</i>	Bird	Species of Concern	
Cerulean Warbler	<i>Setophaga cerulea</i>	Bird	Species of Concern	
Muskellunge	<i>Esox masquinongy</i>	Fish	Species of Concern	
Big Brown Bat	<i>Eptesicus fuscus</i>	Mammal	Species of Concern	
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	Mammal	Species of Concern	
Red Bat	<i>Lasiurus borealis</i>	Mammal	Species of Concern	
Hoary Bat	<i>Lasiurus cinereus</i>	Mammal	Species of Concern	
Little Brown Bat	<i>Myotis lucifugus</i>	Mammal	Species of Concern	
Tri-colored Bat	<i>Perimyotis subflavus</i>	Mammal	Species of Concern	
Southern Bog Lemming	<i>Synaptomys cooperi</i>	Mammal	Species of Concern	
Common Gray Fox	<i>Urocyon cinereoargenteus</i>	Mammal	Species of Concern	
Elktoe	<i>Alasmidonta marginata</i>	Mollusk	Species of Concern	
Deerto	<i>Truncilla truncata</i>	Mollusk	Species of Concern	
Eastern Box Turtle	<i>Terrapene carolina carolina</i>	Reptile	Species of Concern	



Common Name	Scientific Name	Group	State Status	Federal Status
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	Bird	Special Interest	
Long-eared Owl	<i>Asio otus</i>	Bird	Special Interest	
Canada Warbler	<i>Cardellina canadensis</i>	Bird	Special Interest	
Veery	<i>Catharus fuscescens</i>	Bird	Special Interest	
Hermit Thrush	<i>Catharus guttatus</i>	Bird	Special Interest	
Brown Creeper	<i>Certhia americana</i>	Bird	Special Interest	
Least Flycatcher	<i>Empidonax minimus</i>	Bird	Special Interest	
Dark-eyed Junco	<i>Junco hyemalis</i>	Bird	Special Interest	
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	Bird	Special Interest	
Northern Waterthrush	<i>Parkesia noveboracensis</i>	Bird	Special Interest	
Golden-crowned Kinglet	<i>Regulus satrapa</i>	Bird	Special Interest	
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>	Bird	Special Interest	
Blackburnian Warbler	<i>Setophaga fusca</i>	Bird	Special Interest	
Magnolia Warbler	<i>Setophaga magnolia</i>	Bird	Special Interest	
Western Meadowlark	<i>Sturnella neglecta</i>	Bird	Special Interest	
Winter Wren	<i>Troglodytes hiemalis</i>	Bird	Special Interest	
Bell's Vireo	<i>Vireo bellii</i>	Bird	Special Interest	
Blue-headed Vireo	<i>Vireo solitarius</i>	Bird	Special Interest	



Butler County

Scientific Name	Common Name	Last Observed	State Status	Federal Status
<i>Arabis pycnocarpa</i> var. <i>adpressipilis</i>	Southern Hairy Rock Cress	1965-04	P	
<i>Arabis pycnocarpa</i> var. <i>pycnocarpa</i>	Western Hairy Rock Cress	1990-05-03	X	
<i>Bromus kalmii</i>	Prairie Brome	2013-07-01	P	
<i>Carex mesochorea</i>	Midland Sedge	2005-06-05	T	
<i>Carex timida</i>	Timid Sedge	2011-06-14	T	
<i>Cyperus acuminatus</i>	Pale Umbrella-sedge	2014-09-19	P	
<i>Echinodorus berteroi</i>	Burhead	2014-09-19	P	
<i>Ribes missouriense</i>	Missouri Gooseberry	2013-07-01	T	
<i>Salix caroliniana</i>	Carolina Willow	1991-06-02	P	
<i>Silene nivea</i>	Snowy Champion	2013-07-01	E	
<i>Viburnum molle</i>	Soft-leaved Arrow-wood	2013-07-01	T	



Ohio Division of Wildlife
Ohio Natural Heritage Database
Date Accessed: March 6, 2015
Based on 2014-15 Rare Plant List.

Status:

X = Extirpated

E = Endangered

T = Threatened

P = Potentially Threatened

List Created: July 2016

Section 6(f)

Land and Water Conservation Funded (LWCF) Properties

OH	85	POTTERS PARK	D	C	CITY OF HAMILTON	1971	63,400.00	BUTLER	8
OH	128	WEBER W. SEBALD PARK	D	C	CITY OF MIDDLETOWN	1971	91,150.00	BUTLER	8
OH	179	HAMILTON CENTRAL PARK ACQUISITION	A	C	CITY OF HAMILTON	1973	8,000.00	BUTLER	8
OH	207	HAMILTON CENTRAL PARK ARENA	D	C	MIAMI UNIVERSITY HAMILTON	1973	330,750.00	BUTLER	8
OH	240	FAIRFIELD MUNICIPAL PARK	A	C	CITY OF FAIRFIELD	1973	241,168.50	BUTLER	8
OH	372	EXCELLO RIVER CORRIDOR	A	C	MIAMI CONSERVANCY DIST.	1975	53,000.00	BUTLER	8
OH	404	UNION TWP PARK ACQ	A	C	TOWNSHIP OF UNION	1975	169,791.20	BUTLER	8
OH	503	KEEHNER PARK	D	C	TOWNSHIP OF UNION	1977	137,371.00	BUTLER	8
OH	517	LEFFERSON PARK	D	C	CITY OF MIDDLETOWN	1977	125,132.84	BUTLER	8
OH	520	FAIRFIELD PARK DEVELOPMENT	D	C	CITY OF FAIRFIELD	1977	34,148.75	BUTLER	8
OH	521	FAIRFIELD TOWNSHIP PARK	A	C	TOWNSHIP OF FAIRFIELD	1977	45,375.00	BUTLER	8
OH	586	FAIRFIELD RECREATION COMPLEX	A	C	CITY OF FAIRFIELD	1978	633,482.00	BUTLER	8
OH	679	D/RENTSCHER FOREST	C	C	BUTLER COUNTY	1979	118,052.00	BUTLER	8
OH	701	FAIRFIELD TOWNSHIP PARK DEVELOPMENT	D	W	FIARFIELD TOWNSHIP, BUTLER CNTY, OH	1979	135,000.00	BUTLER	8
OH	764	SMITH PARK	D	C	CITY OF MIDDLETOWN	1979	204,000.00	BUTLER	8
OH	786	MIAMI WOODS ACQUISITION	A	C	CITY OF HAMILTON	1980	111,102.50	BUTLER	8
OH	936	RENTSCHLER FOREST	C	C	BUTLER COUNTY	1982	192,677.15	BUTLER	8
OH	1,040	INDIAN CREEK PRESERVE	D	C	BUTLER COUNTY	1985	9,024.35	BUTLER	8
OH	1,110	HANOVER PARK	D	C	TOWNSHIP OF HANOVER	1987	10,319.13	BUTLER	8
OH	1,135	D/WESTERN KNOLLS PARK	A	C	CITY OF OXFORD	1989	23,226.50	BUTLER	8
OH	1,267	D/WILHELMINA PARK	A	C	TOWNSHIP OF LIBERTY	2004	200,000.00	BUTLER	8
OH	1,280	HANOVER MEMORIAL PARK	A	C	TOWNSHIP OF HANOVER	2005	40,050.00	BUTLER	8
OH	1,304	HANOVER TOWNSHIP - MEMORIAL PARK	D	C	TOWNSHIP OF HANOVER	2005	66,588.00	BUTLER	8
OH	1,413	SEBALD METROPARK ACQUISITION	A	C	METROPARKS OF BUTLER COUNTY	2015	187,500.00	Butler	8