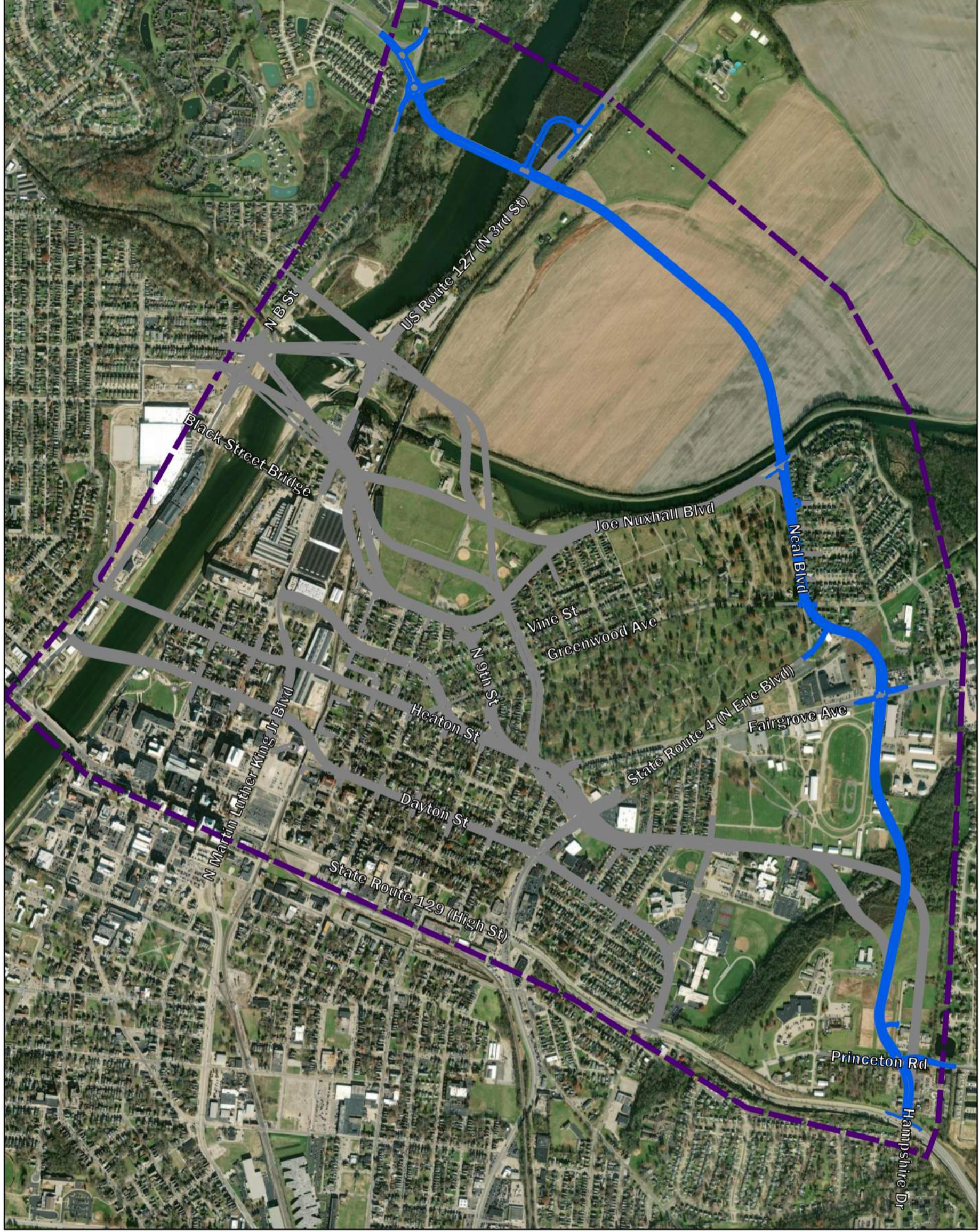


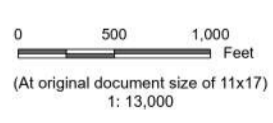
# **Attachment A**

## *Preliminary Alignments*

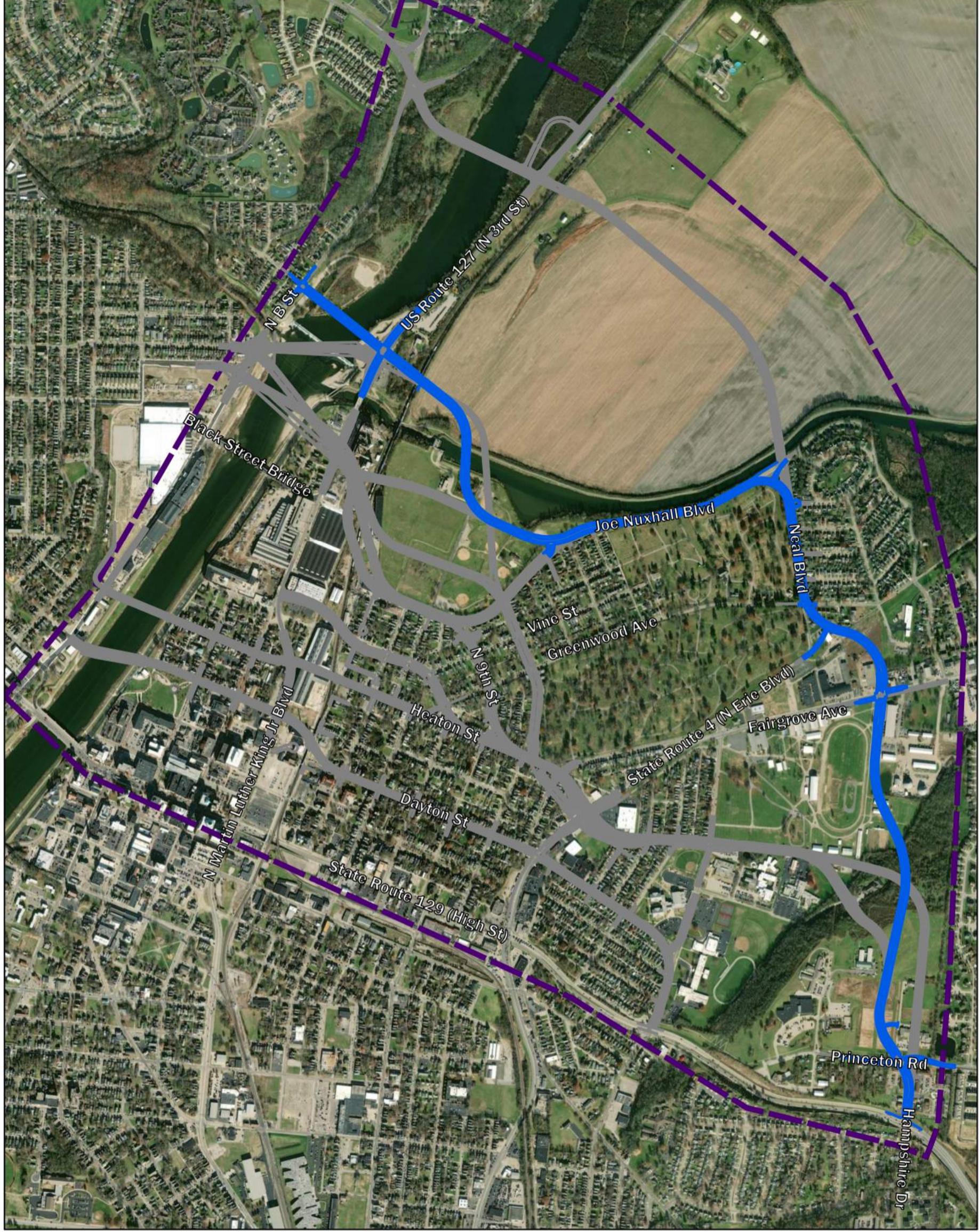


**Notes**  
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet  
 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
<b>Alternative A</b>	<b>Alternative G</b>	<b>Alternative ABE</b>
— Alternative A	— Alternative G	— Alternative ABE
<b>Alternative B</b>	<b>Alternative AC</b>	<b>Alternative EBE</b>
— Alternative B	— Alternative AC	— Alternative EBE
<b>Alternative C</b>	<b>Alternative AD</b>	<b>Alternative AF1</b>
— Alternative C	— Alternative AD	— Alternative AF1
<b>Alternative D</b>	<b>Alternative AE</b>	<b>Alternative EF1</b>
— Alternative D	— Alternative AE	— Alternative EF1
<b>Alternative E</b>	<b>Alternative BC</b>	<b>Study Area</b>
— Alternative E	— Alternative BC	— Study Area
<b>Alternative E1</b>	<b>Alternative BD</b>	
— Alternative E1	— Alternative BD	
<b>Alternative F</b>	<b>Alternative BE</b>	
— Alternative F	— Alternative BE	

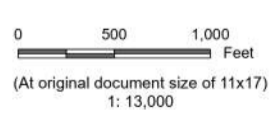


Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Figure No.: A-1  
 Title: **Alternative A Map**



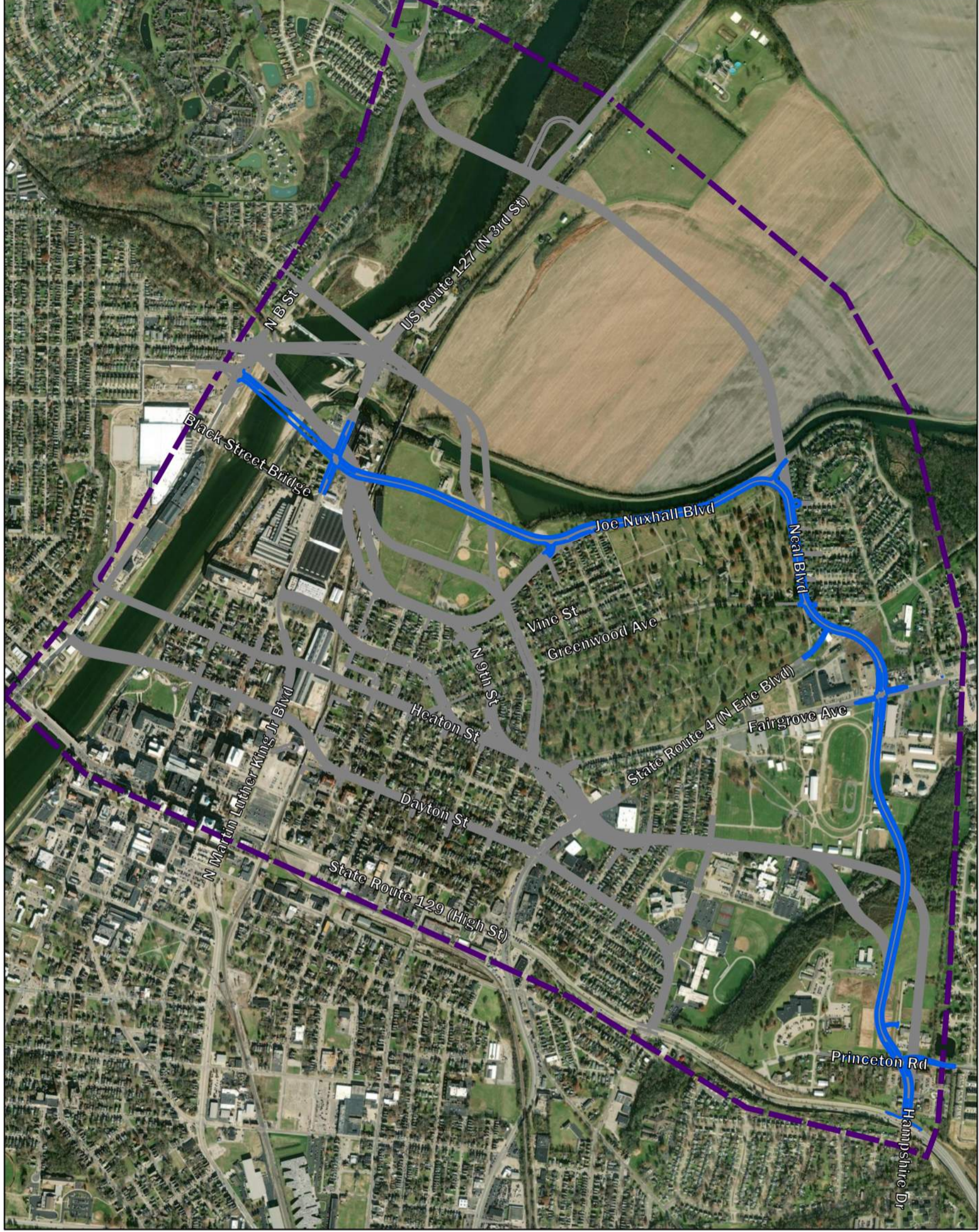
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
<b>Alternative B</b>	<b>Alternative G</b>	<b>Alternative ABE</b>
— Alternative B	— Alternative G	— Alternative ABE
<b>Alternative A</b>	<b>Alternative AC</b>	<b>Alternative EBE</b>
— Alternative A	— Alternative AC	— Alternative EBE
<b>Alternative C</b>	<b>Alternative AD</b>	<b>Alternative AF1</b>
— Alternative C	— Alternative AD	— Alternative AF1
<b>Alternative D</b>	<b>Alternative AE</b>	<b>Alternative EF1</b>
— Alternative D	— Alternative AE	— Alternative EF1
<b>Alternative E</b>	<b>Alternative BC</b>	<b>Study Area</b>
— Alternative E	— Alternative BC	— Study Area
<b>Alternative E1</b>	<b>Alternative BD</b>	
— Alternative E1	— Alternative BD	
<b>Alternative F</b>	<b>Alternative BE</b>	
— Alternative F	— Alternative BE	



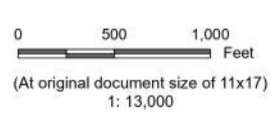
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

Title: **Alternative B Map**



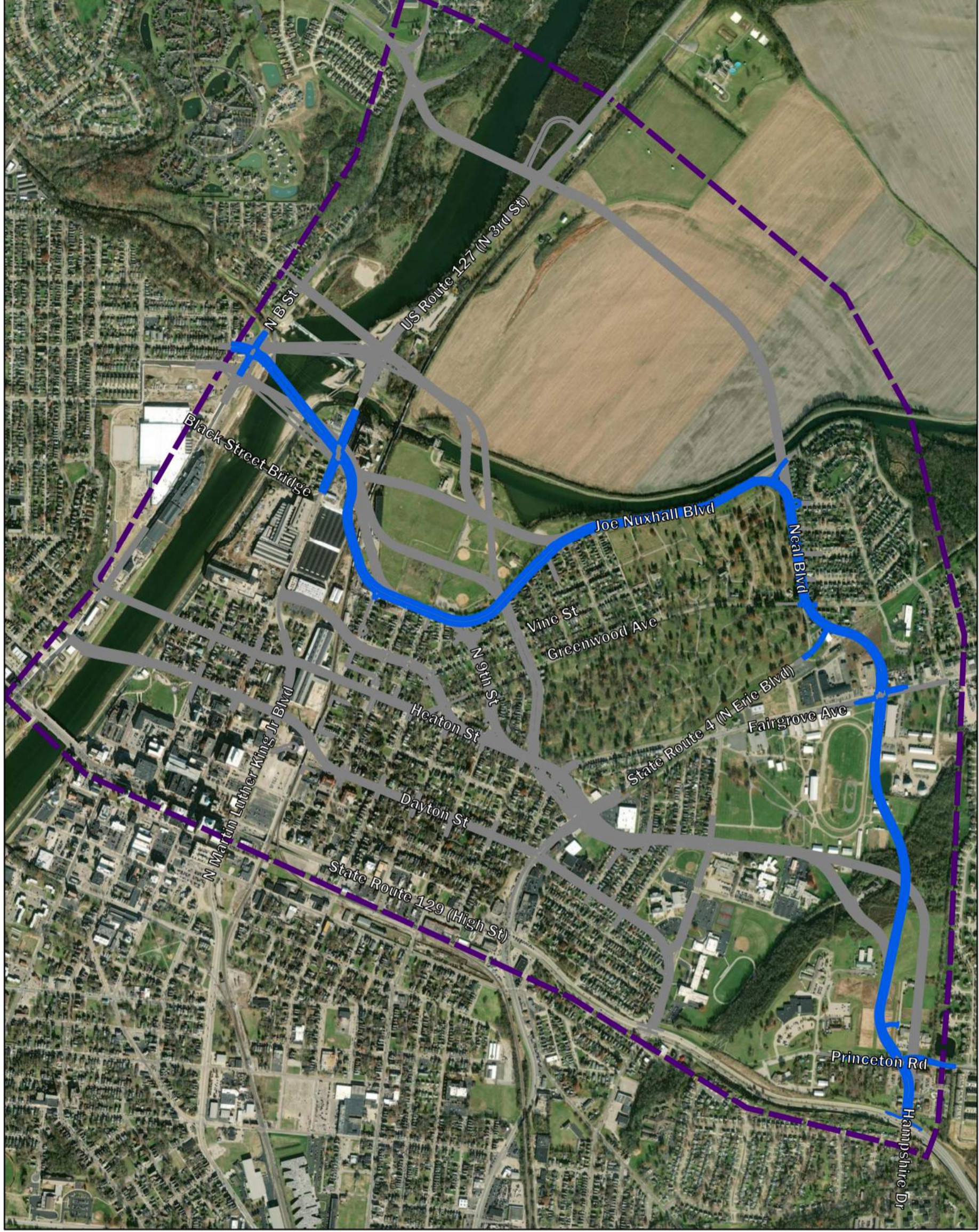
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative C	Alternative G	Alternative ABE
— Alternative C	— Alternative G	— Alternative ABE
Alternative A	Alternative AC	Alternative EBE
— Alternative A	— Alternative AC	— Alternative EBE
Alternative B	Alternative AD	Alternative AF1
— Alternative B	— Alternative AD	— Alternative AF1
Alternative D	Alternative AE	Alternative EF1
— Alternative D	— Alternative AE	— Alternative EF1
Alternative E	Alternative BC	Study Area
— Alternative E	— Alternative BC	■ Study Area
Alternative E1	Alternative BD	
— Alternative E1	— Alternative BD	
Alternative F	Alternative BE	
— Alternative F	— Alternative BE	



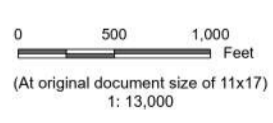
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No.: 173620130

Title: **Alternative C Map**



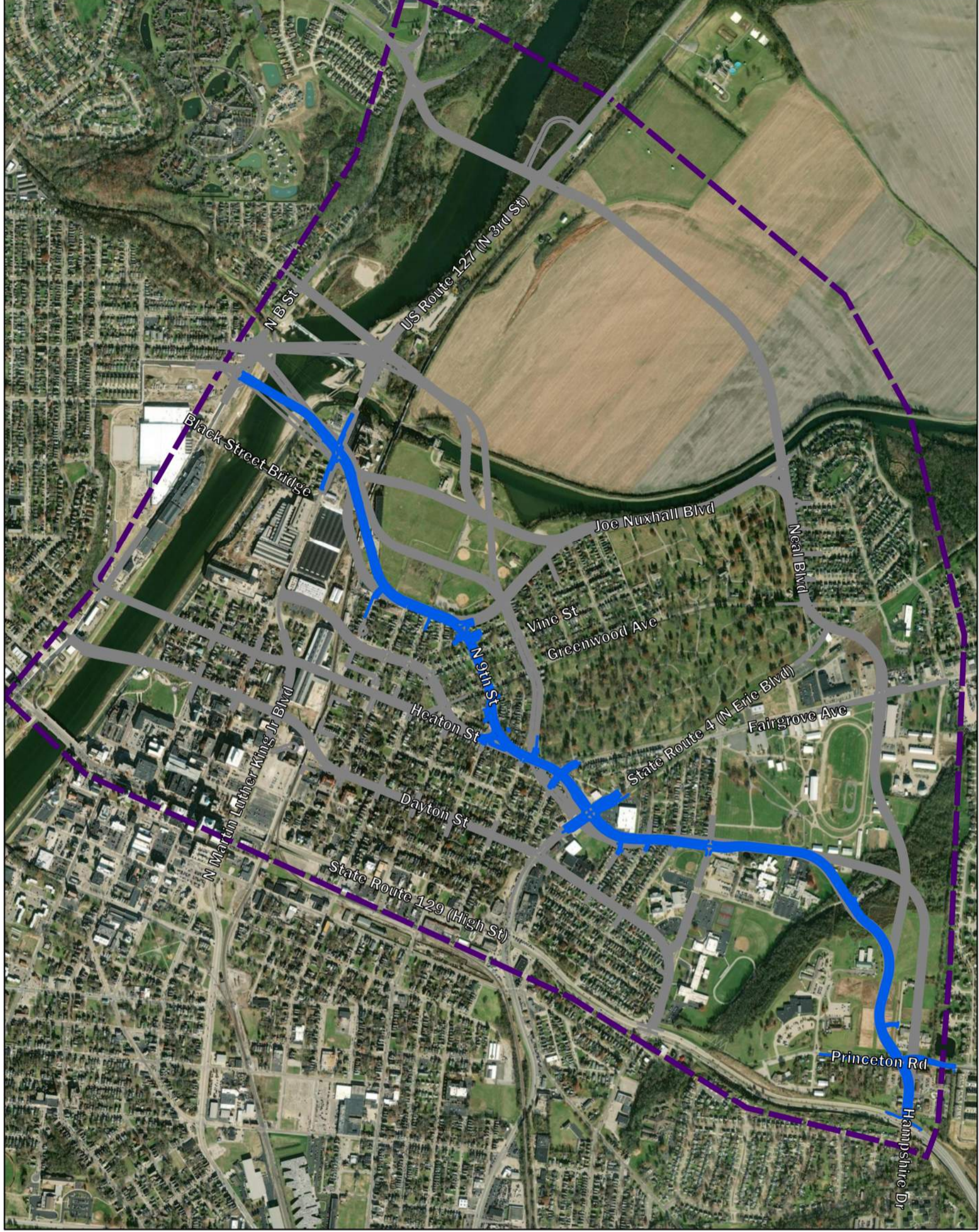
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative D	Alternative G	Alternative ABE
— Alternative D	— Alternative G	— Alternative ABE
Alternative A	Alternative AC	Alternative EBE
— Alternative A	— Alternative AC	— Alternative EBE
Alternative B	Alternative AD	Alternative AF1
— Alternative B	— Alternative AD	— Alternative AF1
Alternative C	Alternative AE	Alternative EF1
— Alternative C	— Alternative AE	— Alternative EF1
Alternative E	Alternative BC	Study Area
— Alternative E	— Alternative BC	■ Study Area
Alternative E1	Alternative BD	
— Alternative E1	— Alternative BD	
Alternative F	Alternative BE	
— Alternative F	— Alternative BE	



Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

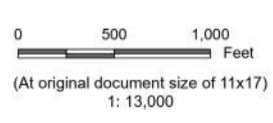
Title: **Alternative D Map**



**Project Location**

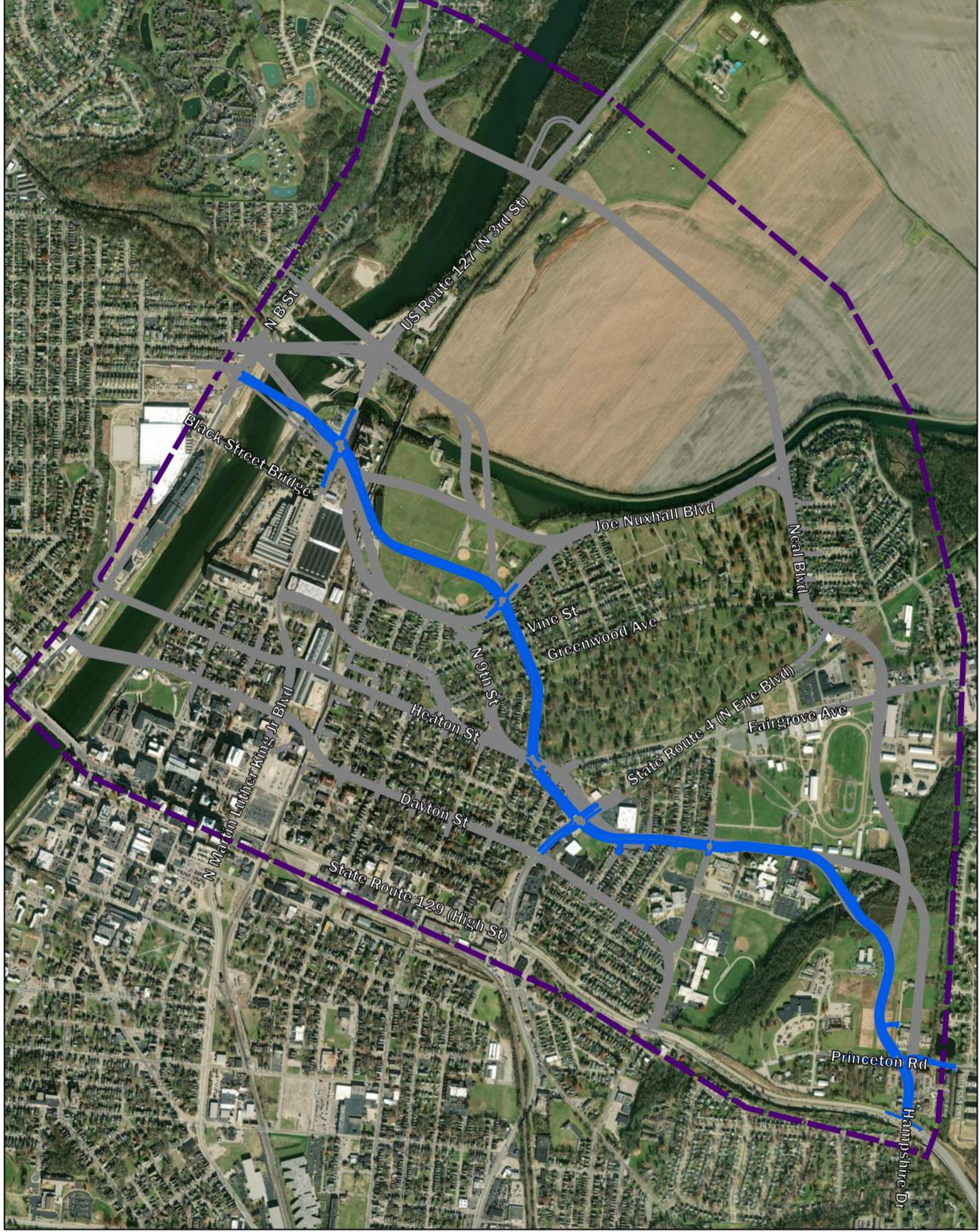
**Notes**  
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative E	Alternative G	Alternative ABE
Alternative A	Alternative AC	Alternative EBE
Alternative B	Alternative AD	Alternative AF1
Alternative C	Alternative AE	Alternative EF1
Alternative D	Alternative BC	Study Area
Alternative E1	Alternative BD	
Alternative F	Alternative BE	



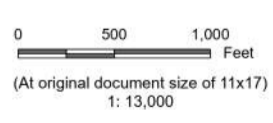
*Project Location* City of Hamilton, Butler County, Ohio  
*Client/Project* North Hamilton Crossing (NHX) PID 115755 Feasibility Study  
 Prepared by RG on 2022-11-08  
 173620130

*Figure No.* **A-5**  
*Title* **Alternative E Map**



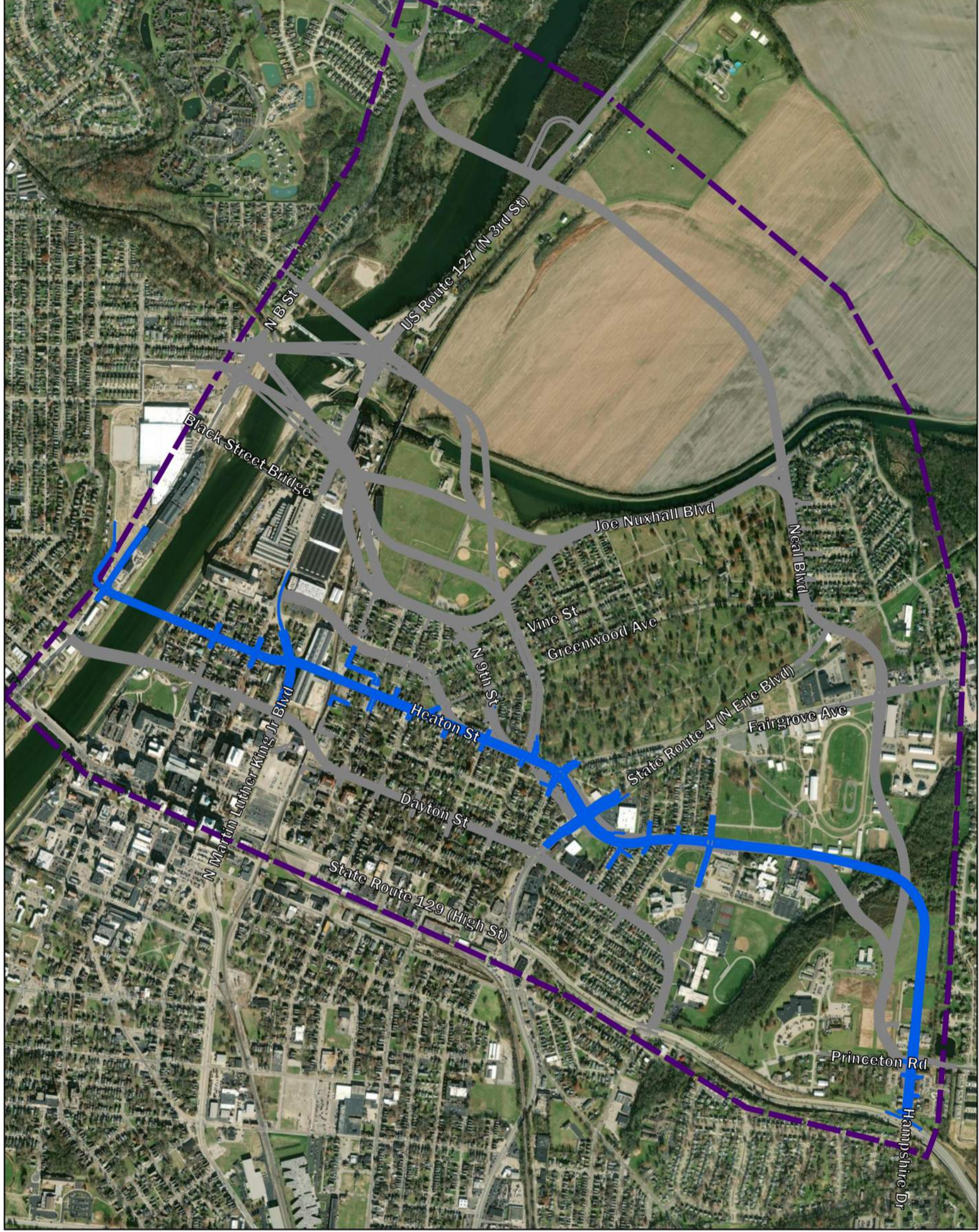
**Notes**  
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
<u>Alternative E1</u>	<u>Alternative G</u>	<u>Alternative ABE</u>
— Alternative E1	— Alternative G	— Alternative ABE
<u>Alternative A</u>	<u>Alternative AC</u>	<u>Alternative EBE</u>
— Alternative A	— Alternative AC	— Alternative EBE
<u>Alternative B</u>	<u>Alternative AD</u>	<u>Alternative AF1</u>
— Alternative B	— Alternative AD	— Alternative AF1
<u>Alternative C</u>	<u>Alternative AE</u>	<u>Alternative EF1</u>
— Alternative C	— Alternative AE	— Alternative EF1
<u>Alternative D</u>	<u>Alternative BC</u>	<u>Study Area</u>
— Alternative D	— Alternative BC	■ Study Area
<u>Alternative E</u>	<u>Alternative BD</u>	
— Alternative E	— Alternative BD	
<u>Alternative F</u>	<u>Alternative BE</u>	
— Alternative F	— Alternative BE	



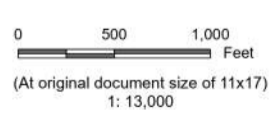
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

Title: **Alternative E1 Map**



**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  
 World Imagery: Maxar

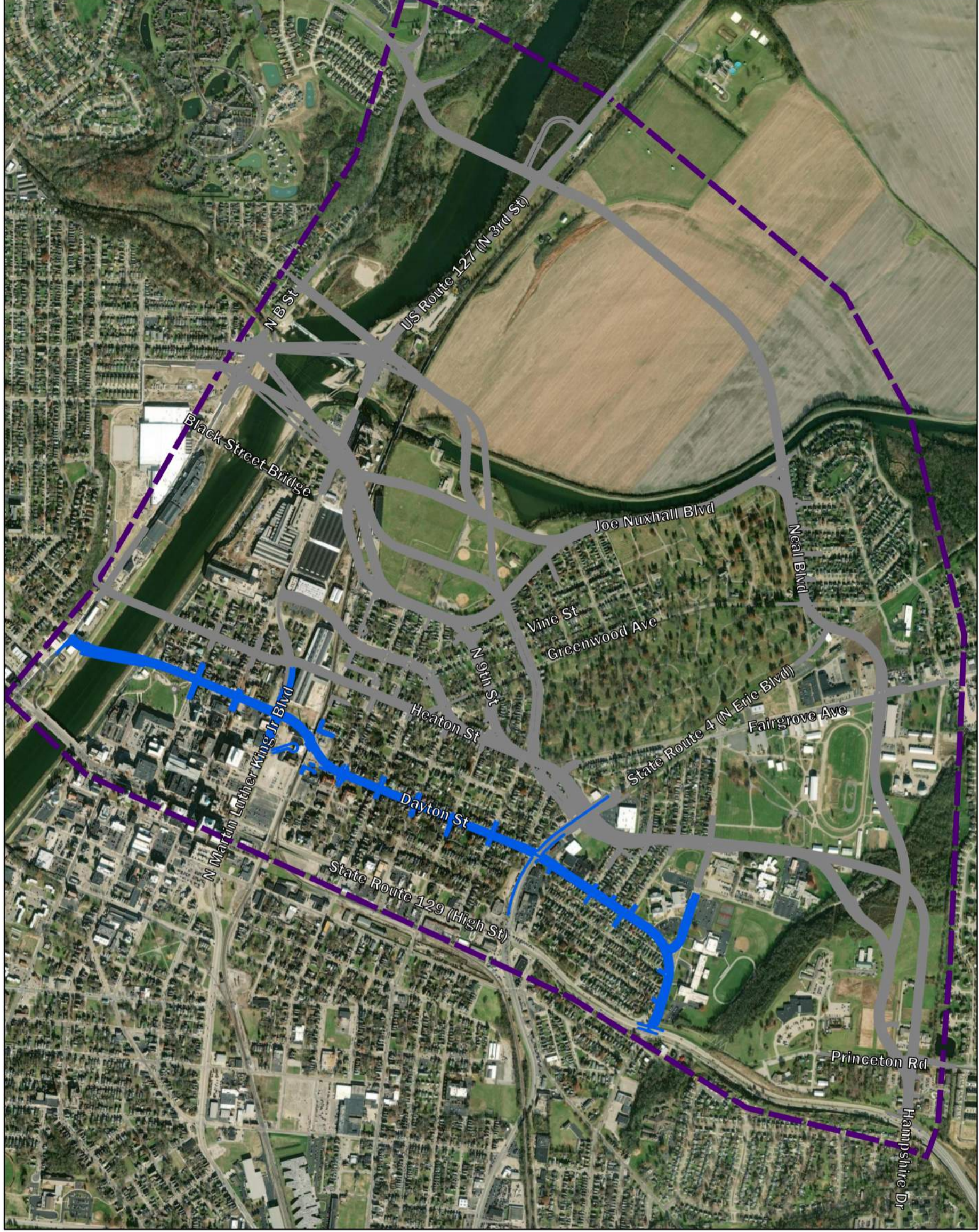
Legend		
Alternative F	Alternative G	Alternative ABE
Alternative F	Alternative G	Alternative ABE
Alternative A	Alternative AC	Alternative EBE
Alternative A	Alternative AC	Alternative EBE
Alternative B	Alternative AD	Alternative EF1
Alternative B	Alternative AD	Alternative EF1
Alternative C	Alternative AE	Alternative AF1
Alternative C	Alternative AE	Alternative AF1
Alternative D	Alternative BC	Study Area
Alternative D	Alternative BC	Study Area
Alternative E	Alternative BD	
Alternative E	Alternative BD	
Alternative E1	Alternative BE	
Alternative E1	Alternative BE	



Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2023-01-06  
 Figure No. 173620130

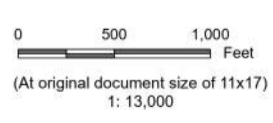
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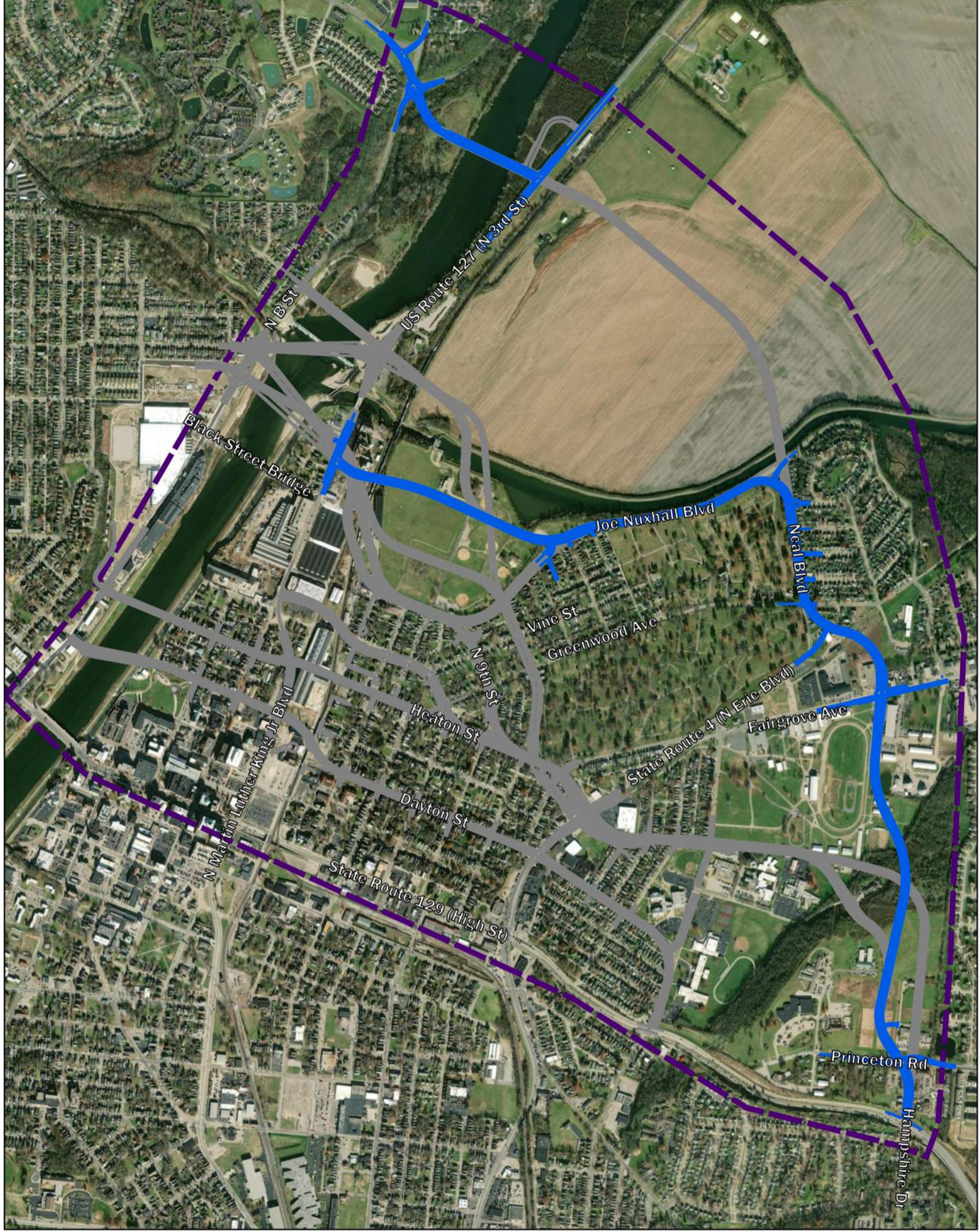
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative G	Alternative F	Alternative ABE
Alternative A	Alternative AC	Alternative EBE
Alternative B	Alternative AD	Alternative EF1
Alternative C	Alternative AE	Alternative AF1
Alternative D	Alternative BC	Study Area
Alternative E	Alternative BD	Study Area
Alternative E1	Alternative BE	
Alternative E1	Alternative BE	



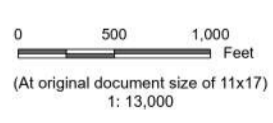
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2023-01-06  
 Figure No. 173620130

Title: **Alternative G Map**



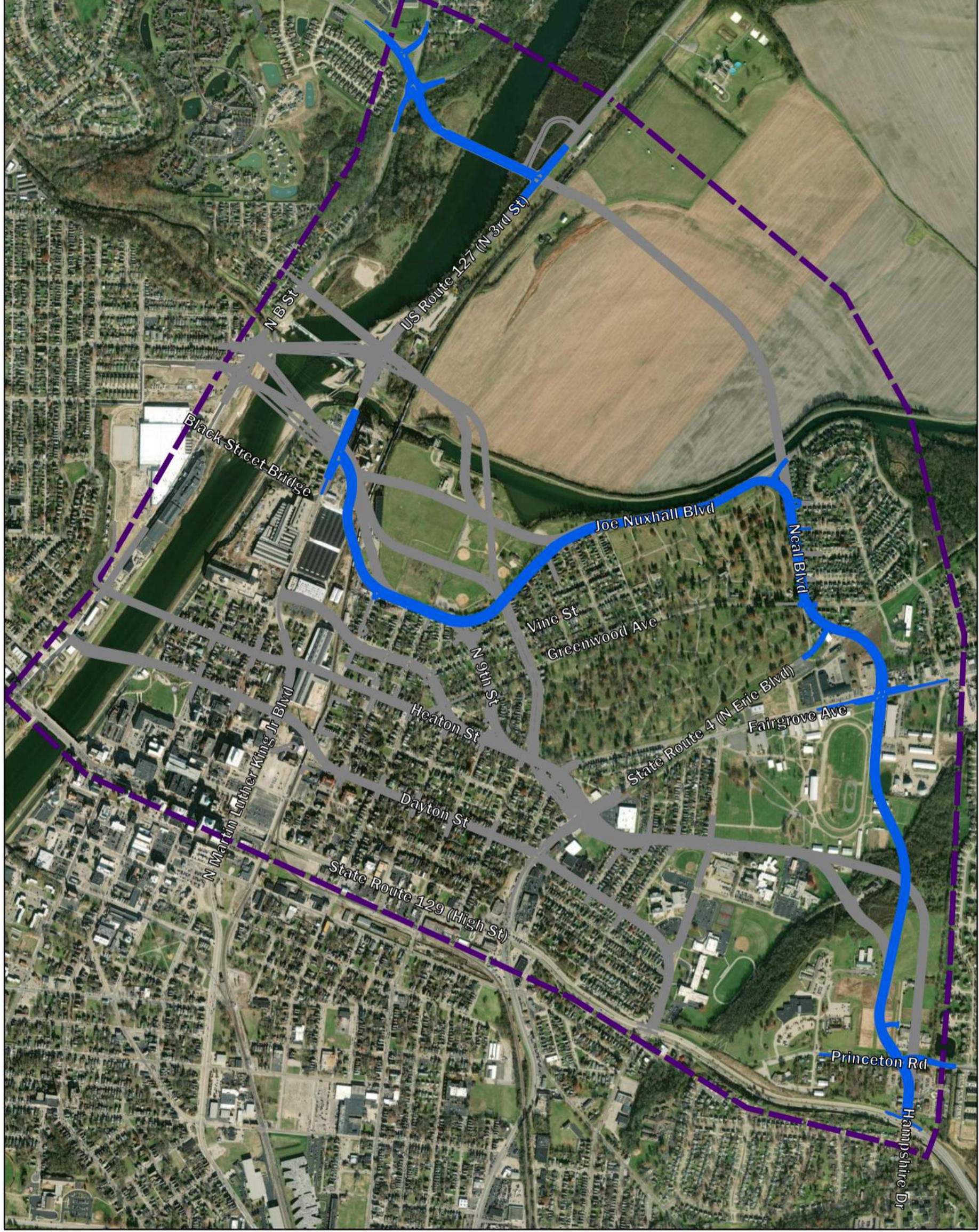
**Notes**  
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative AC	Alternative F	Alternative ABE
Alternative AC	Alternative F	Alternative ABE
Alternative A	Alternative G	Alternative EBE
Alternative A	Alternative G	Alternative EBE
Alternative B	Alternative AD	Alternative AF1
Alternative B	Alternative AD	Alternative AF1
Alternative C	Alternative AE	Alternative EF1
Alternative C	Alternative AE	Alternative EF1
Alternative D	Alternative BC	Study Area
Alternative D	Alternative BC	Study Area
Alternative E	Alternative BD	
Alternative E	Alternative BD	
Alternative E1	Alternative BE	
Alternative E1	Alternative BE	



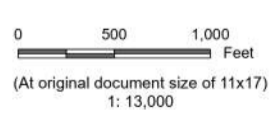
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

Title: **Alternative AC Map**



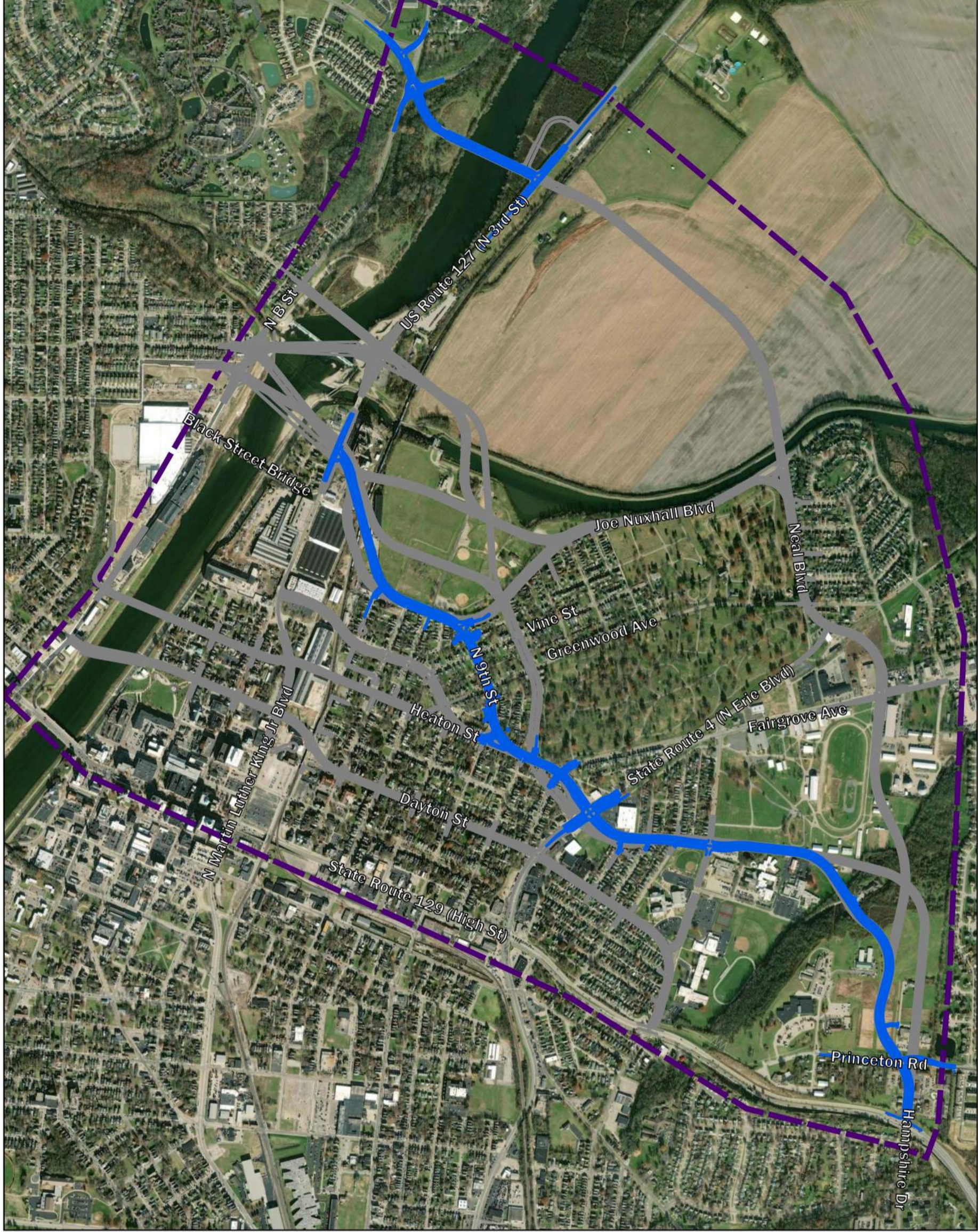
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative AD	Alternative F	Alternative ABE
— Alternative AD	— Alternative F	— Alternative ABE
Alternative A	Alternative G	Alternative EBE
— Alternative A	— Alternative G	— Alternative EBE
Alternative B	Alternative AC	Alternative AF1
— Alternative B	— Alternative AC	— Alternative AF1
Alternative C	Alternative AE	Alternative EF1
— Alternative C	— Alternative AE	— Alternative EF1
Alternative D	Alternative BC	Study Area
— Alternative D	— Alternative BC	■ Study Area
Alternative E	Alternative BD	
— Alternative E	— Alternative BD	
Alternative E1	Alternative BE	
— Alternative E1	— Alternative BE	



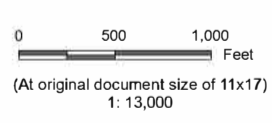
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

Title: **Alternative AD Map**



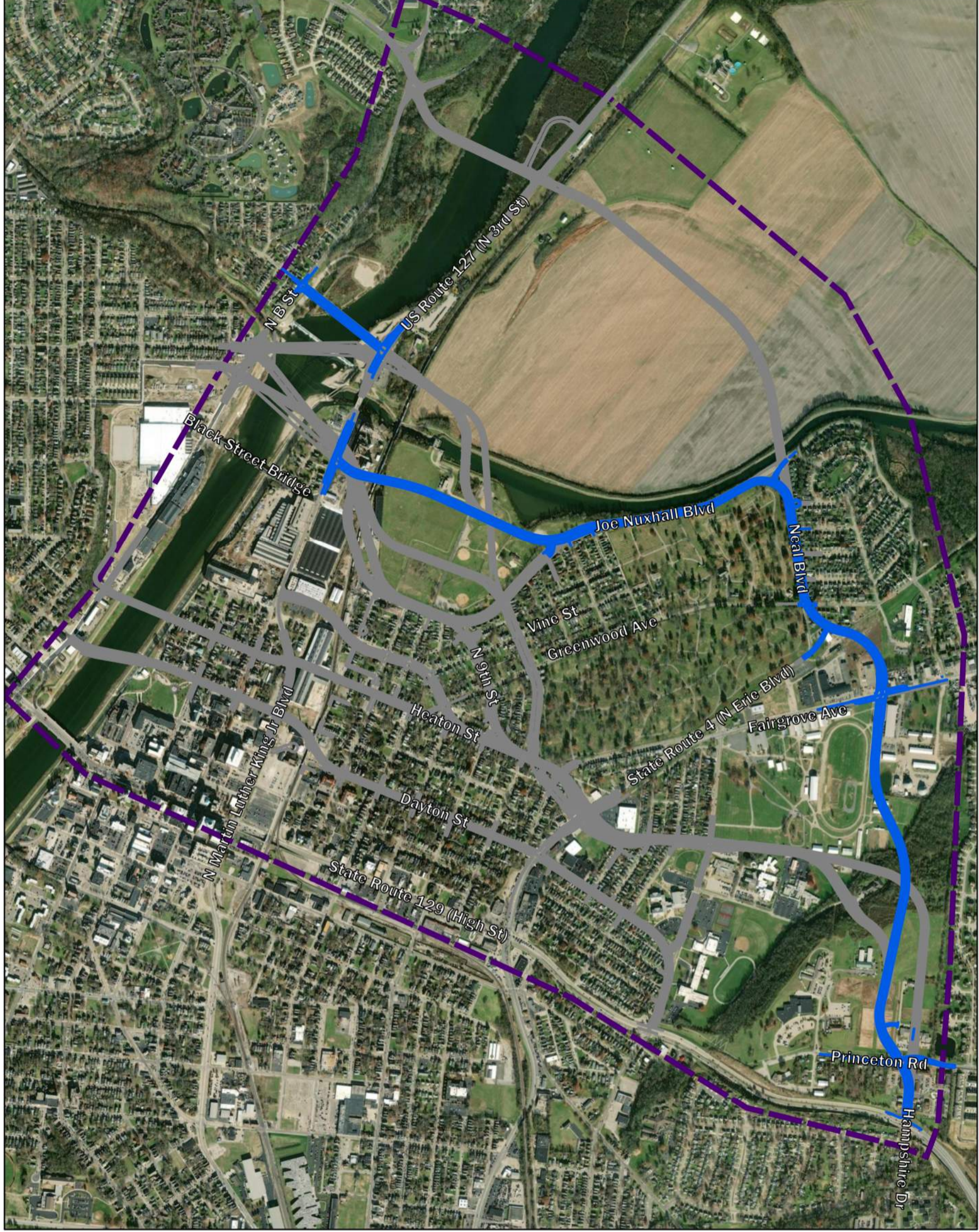
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 2. Base Features Produced from Project Map Designs  
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Legend		
Alternative AE	Alternative F	Alternative ABE
— Alternative AE	— Alternative F	— Alternative ABE
Alternative A	Alternative G	Alternative EBE
— Alternative A	— Alternative G	— Alternative EBE
Alternative B	Alternative AC	Alternative AF1
— Alternative B	— Alternative AC	— Alternative AF1
Alternative C	Alternative AD	Alternative EF1
— Alternative C	— Alternative AD	— Alternative EF1
Alternative D	Alternative BC	Study Area
— Alternative D	— Alternative BC	— Study Area
Alternative E	Alternative BD	
— Alternative E	— Alternative BD	
Alternative E1	Alternative BE	
— Alternative E1	— Alternative BE	



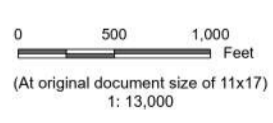
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

**A-11**  
 Title: **Alternative AE Map**

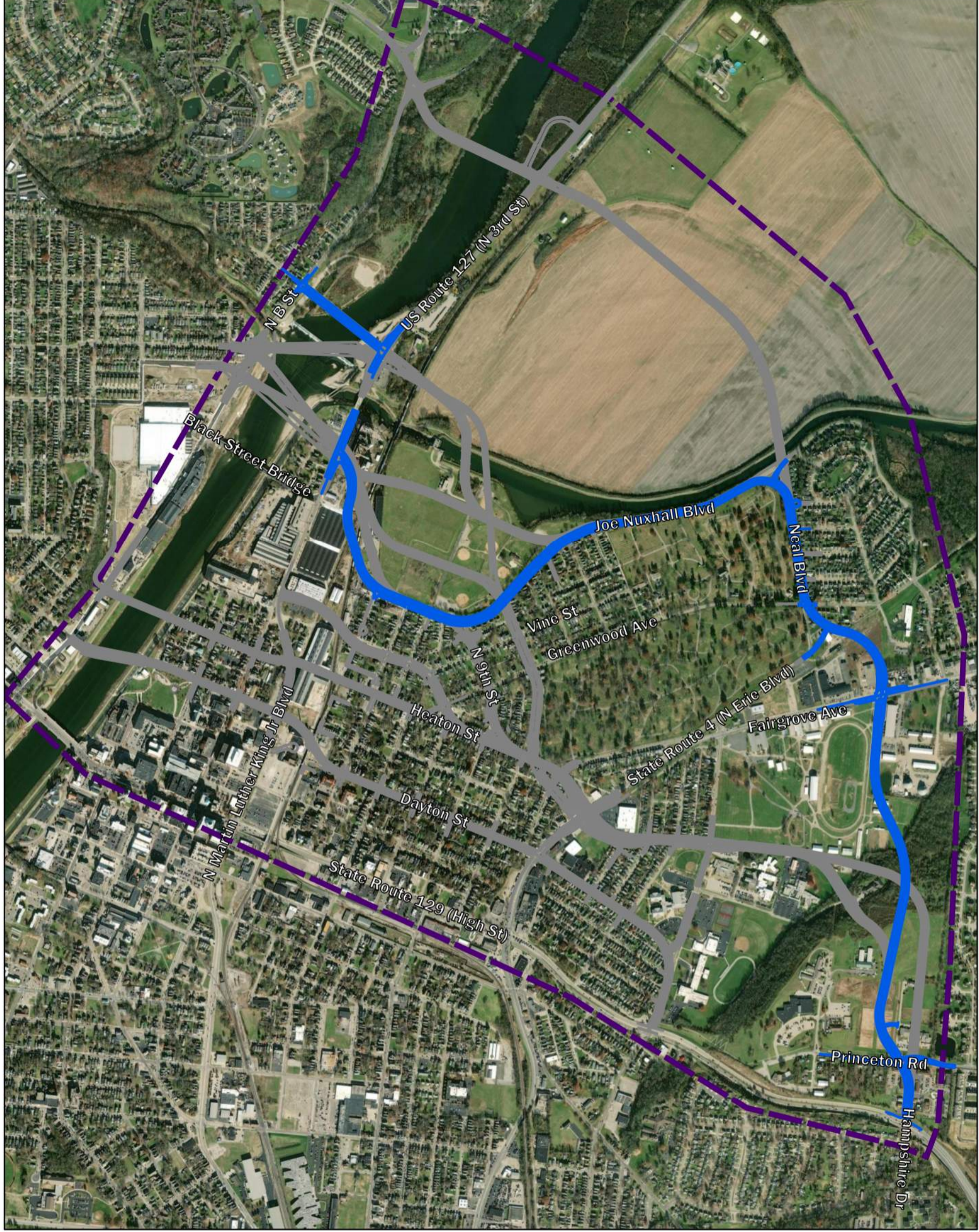


**Notes**  
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet  
 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
<b>Alternative BC</b> — Alternative BC	<b>Alternative F</b> — Alternative F	<b>Alternative ABE</b> — Alternative ABE
<b>Alternative A</b> — Alternative A	<b>Alternative G</b> — Alternative G	<b>Alternative EBE</b> — Alternative EBE
<b>Alternative B</b> — Alternative B	<b>Alternative AC</b> — Alternative AC	<b>Alternative AF1</b> — Alternative AF1
<b>Alternative C</b> — Alternative C	<b>Alternative AD</b> — Alternative AD	<b>Alternative EF1</b> — Alternative EF1
<b>Alternative D</b> — Alternative D	<b>Alternative AE</b> — Alternative AE	<b>Study Area</b> ■ Study Area
<b>Alternative E</b> — Alternative E	<b>Alternative BD</b> — Alternative BD	
<b>Alternative E1</b> — Alternative E1	<b>Alternative BE</b> — Alternative BE	

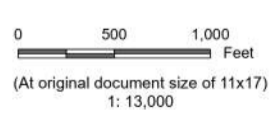


Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Figure No.: **A-12**  
 Title: **Alternative BC Map**



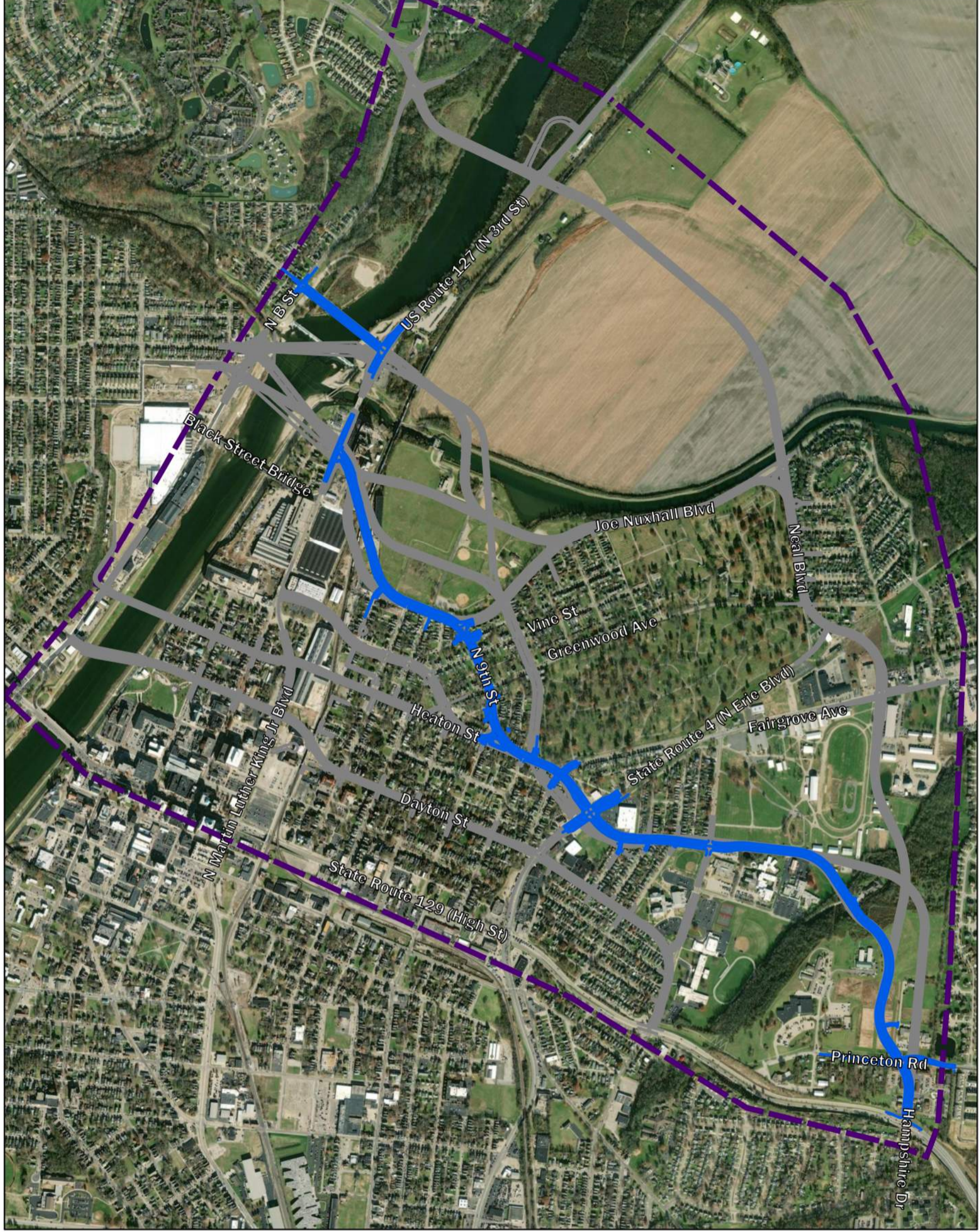
**Notes**  
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative BD	Alternative F	Alternative ABE
Alternative BD	Alternative F	Alternative ABE
Alternative A	Alternative G	Alternative EBE
Alternative A	Alternative G	Alternative EBE
Alternative B	Alternative AC	Alternative AF1
Alternative B	Alternative AC	Alternative AF1
Alternative C	Alternative AD	Alternative EF1
Alternative C	Alternative AD	Alternative EF1
Alternative D	Alternative AE	Study Area
Alternative D	Alternative AE	Study Area
Alternative E	Alternative BC	
Alternative E	Alternative BC	
Alternative E1	Alternative BE	
Alternative E1	Alternative BE	



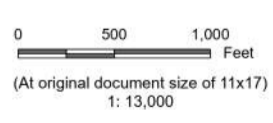
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

**A-13**  
 Title: **Alternative BD Map**



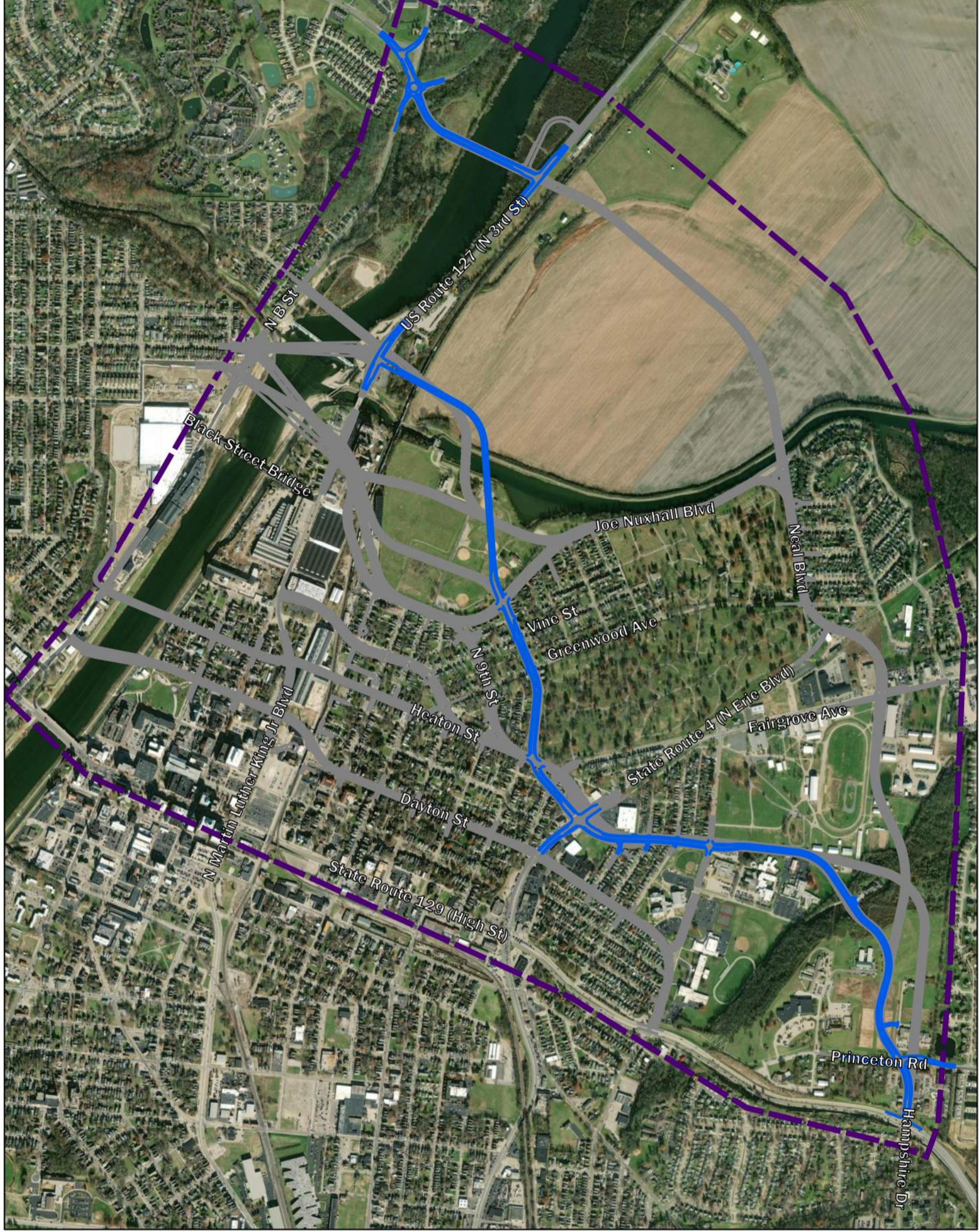
**Notes**  
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 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative BE	Alternative F	Alternative ABE
Alternative BE	Alternative F	Alternative ABE
Alternative A	Alternative G	Alternative EBE
Alternative A	Alternative G	Alternative EBE
Alternative B	Alternative AC	Alternative AF1
Alternative B	Alternative AC	Alternative AF1
Alternative C	Alternative AD	Alternative EF1
Alternative C	Alternative AD	Alternative EF1
Alternative D	Alternative AE	Study Area
Alternative D	Alternative AE	Study Area
Alternative E	Alternative BC	
Alternative E	Alternative BC	
Alternative E1	Alternative BD	
Alternative E1	Alternative BD	



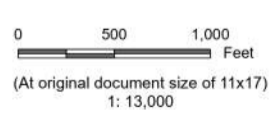
Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2022-11-08  
 Figure No. 173620130

Title: **Alternative BE Map**



**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  
 World Imagery: Maxar

Legend		
Alternative ABE	Alternative F	Alternative BE
— Alternative ABE	— Alternative F	— Alternative BE
Alternative A	Alternative G	Alternative EBE
— Alternative A	— Alternative G	— Alternative EBE
Alternative B	Alternative AC	Alternative AF1
— Alternative B	— Alternative AC	— Alternative AF1
Alternative C	Alternative AD	Alternative EF1
— Alternative C	— Alternative AD	— Alternative EF1
Alternative D	Alternative AE	Study Area
— Alternative D	— Alternative AE	■ Study Area
Alternative E	Alternative BC	
— Alternative E	— Alternative BC	
Alternative E1	Alternative BD	
— Alternative E1	— Alternative BD	



*Project Location*  
 City of Hamilton  
 Butler County, Ohio

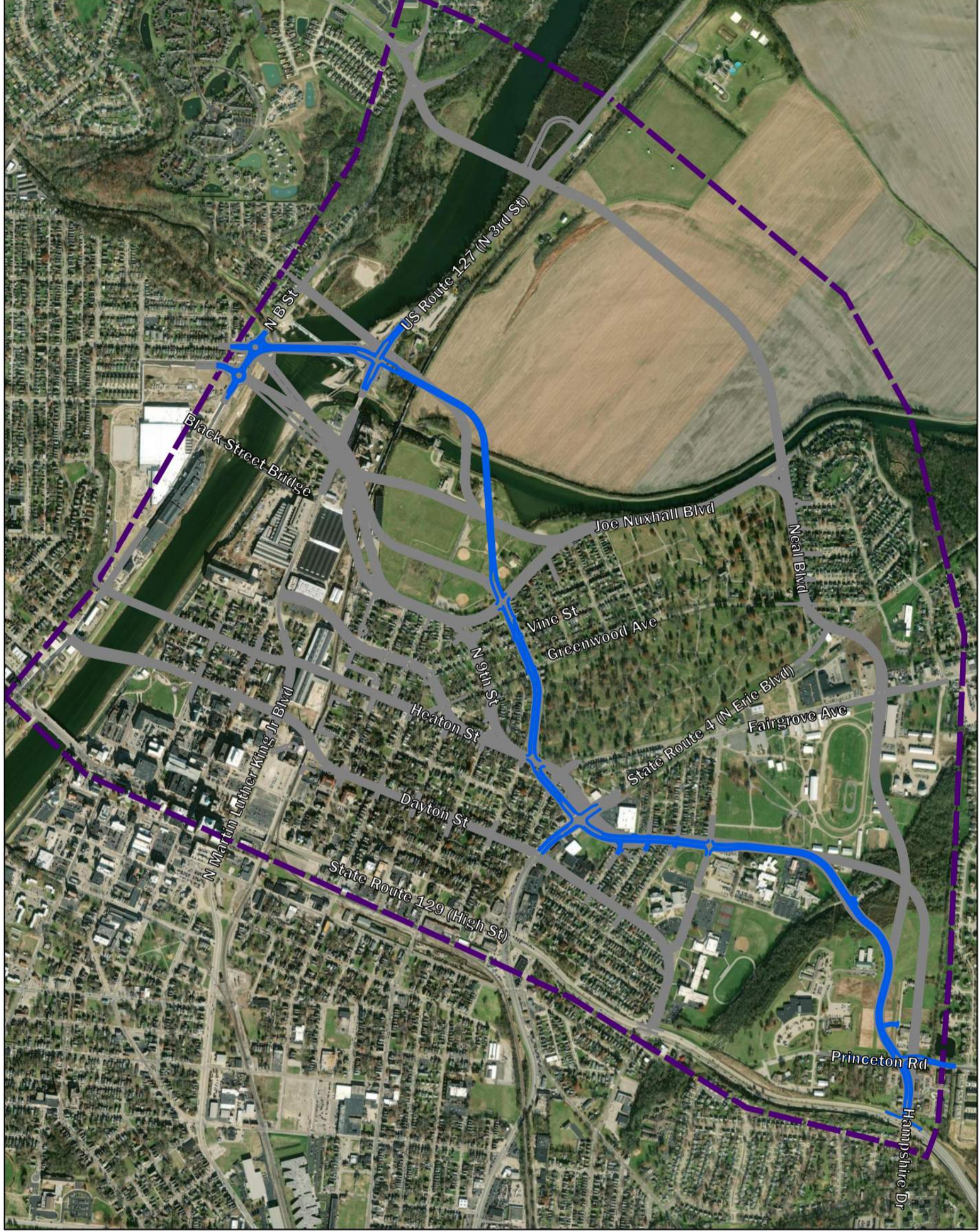
*Client/Project*  
 North Hamilton Crossing (NHX)  
 PID 115755  
 Feasibility Study

*Figure No.*  
**A-15**

*Title*  
**Alternative ABE Map**

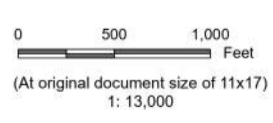
Prepared by RG on 2022-11-08  
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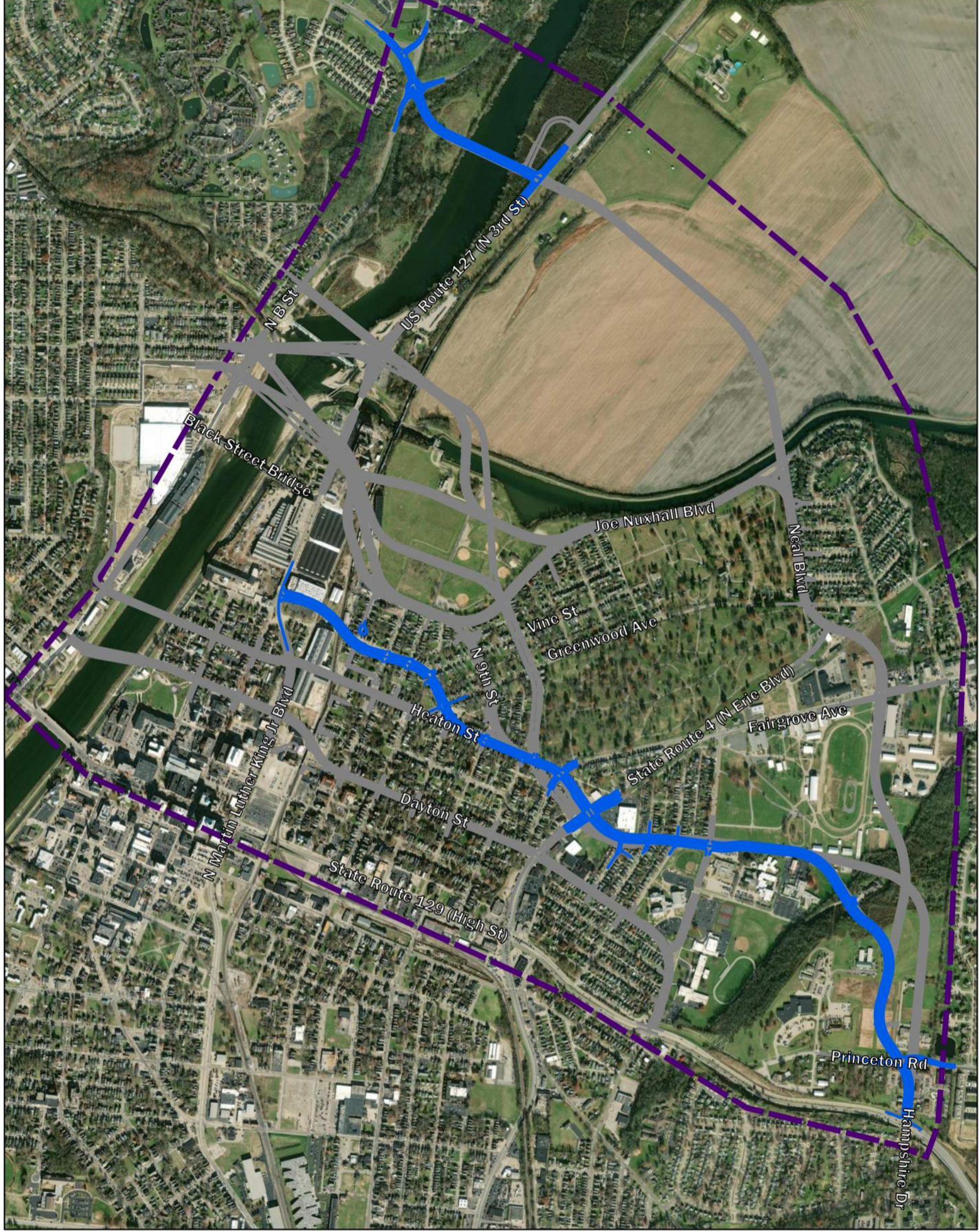


**Notes**  
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet  
 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
<b>Alternative EBE</b>	<b>Alternative F</b>	<b>Alternative BE</b>
— Alternative EBE	— Alternative F	— Alternative BE
<b>Alternative A</b>	<b>Alternative G</b>	<b>Alternative ABE</b>
— Alternative A	— Alternative G	— Alternative ABE
<b>Alternative B</b>	<b>Alternative AC</b>	<b>Alternative AF1</b>
— Alternative B	— Alternative AC	— Alternative AF1
<b>Alternative C</b>	<b>Alternative AD</b>	<b>Alternative EF1</b>
— Alternative C	— Alternative AD	— Alternative EF1
<b>Alternative D</b>	<b>Alternative AE</b>	<b>Study Area</b>
— Alternative D	— Alternative AE	■ Study Area
<b>Alternative E</b>	<b>Alternative BC</b>	
— Alternative E	— Alternative BC	
<b>Alternative E1</b>	<b>Alternative BD</b>	
— Alternative E1	— Alternative BD	

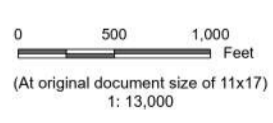


Project Location: City of Hamilton, Butler County, Ohio  
 Prepared by RG on 2022-11-08  
 Client/Project: North Hamilton Crossing (NHX) 173620130  
 PID 115755  
 Feasibility Study  
 Figure No. **A-16**  
 Title: **Alternative EBE Map**

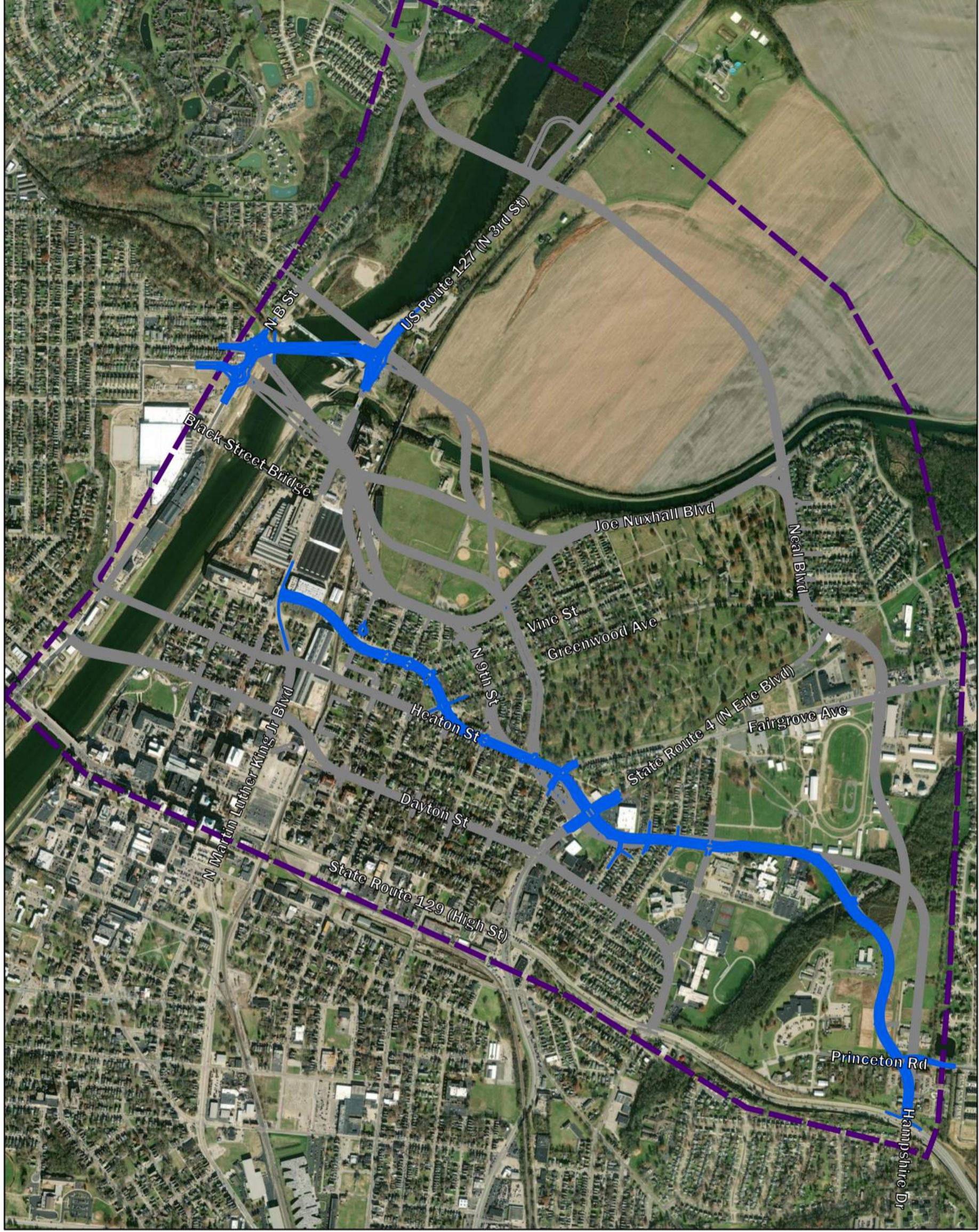


**Notes**  
 1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet  
 2. Base Features: Produced from Project Map Designs  
 3. Background: Light Gray Base: Esri, HERE, Garmin, FAO, NOAA, USGS, EPA  
 World Imagery: Maxar

Legend		
Alternative AF1	Alternative F	Alternative BE
— Alternative AF1	— Alternative F	— Alternative BE
Alternative A	Alternative G	Alternative ABE
— Alternative A	— Alternative G	— Alternative ABE
Alternative B	Alternative AC	Alternative EBE
— Alternative B	— Alternative AC	— Alternative EBE
Alternative C	Alternative AD	Alternative EF1
— Alternative C	— Alternative AD	— Alternative EF1
Alternative D	Alternative AE	Study Area
— Alternative D	— Alternative AE	■ Study Area
Alternative E	Alternative BC	
— Alternative E	— Alternative BC	
Alternative E1	Alternative BD	
— Alternative E1	— Alternative BD	

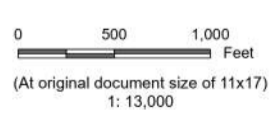


Project Location: City of Hamilton, Butler County, Ohio  
 Prepared by RG on 2023-01-06  
 Client/Project: North Hamilton Crossing (NHX) 173620130  
 PID 115755  
 Feasibility Study  
 Figure No. A-17  
 Title: Alternative AF1 Map



**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  
 World Imagery: Maxar

Legend		
Alternative EF1	Alternative F	Alternative BE
— Alternative EF1	— Alternative F	— Alternative BE
Alternative A	Alternative G	Alternative ABE
— Alternative A	— Alternative G	— Alternative ABE
Alternative B	Alternative AC	Alternative EBE
— Alternative B	— Alternative AC	— Alternative EBE
Alternative C	Alternative AD	Alternative AF1
— Alternative C	— Alternative AD	— Alternative AF1
Alternative D	Alternative AE	Study Area
— Alternative D	— Alternative AE	■ Study Area
Alternative E	Alternative BC	
— Alternative E	— Alternative BC	
Alternative E1	Alternative BD	
— Alternative E1	— Alternative BD	



Project Location: City of Hamilton, Butler County, Ohio  
 Client/Project: North Hamilton Crossing (NHX), PID 115755, Feasibility Study  
 Prepared by RG on 2023-01-06  
 Figure No. 173620130

Title: **Alternative EF1 Map**