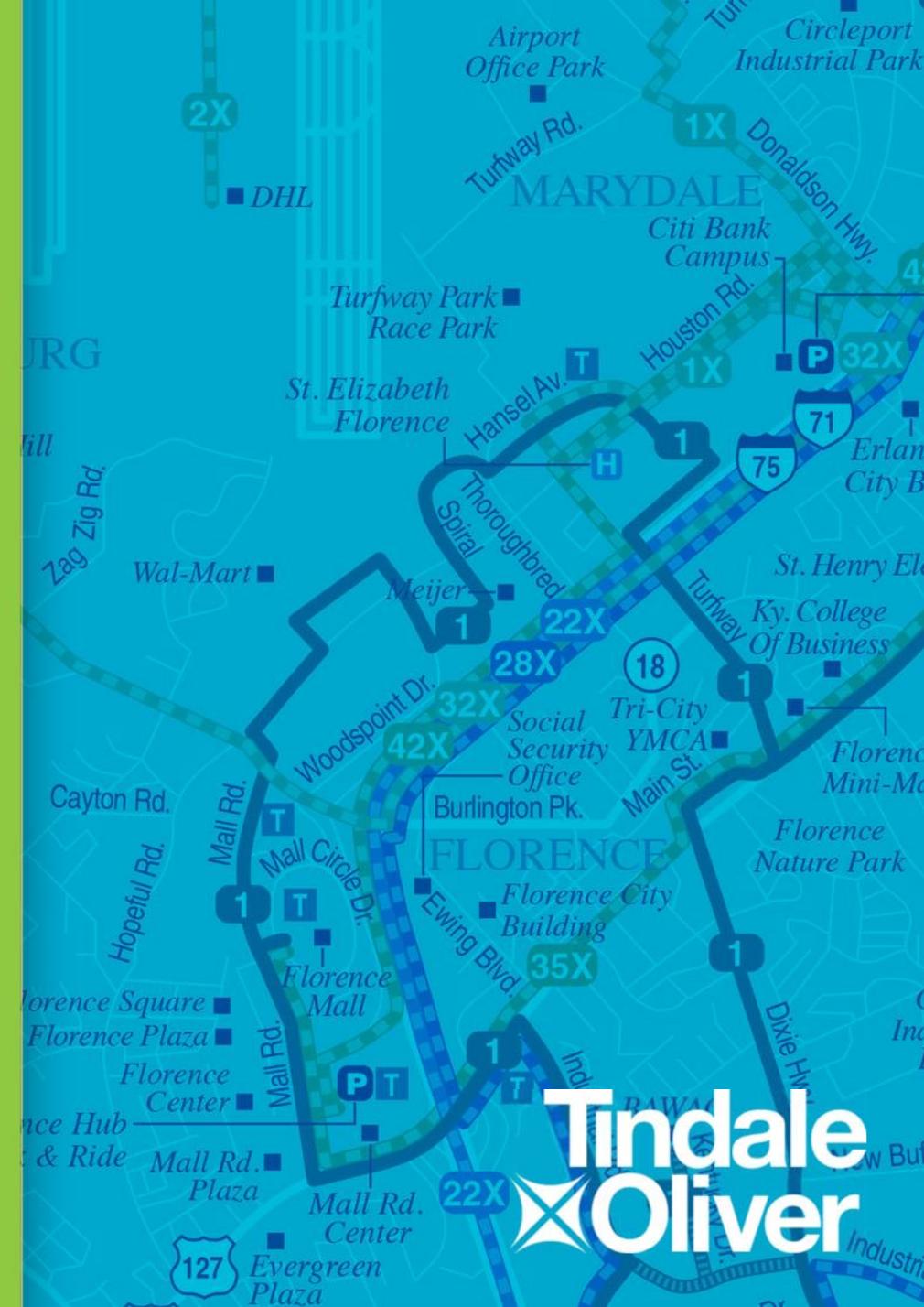




# Discussion Group Workshop & Public Meetings

January, 2020



# Context reminder before we start...

- TANK at a crossroads
  - Peak-hour, peak-direction commuter service structure
  - Ridership decline since 2013 (-9.7%)
  - Growing region with evolving transportation needs
  - Critical funding decisions in 2020
- Where do we go from here?



Pike & Holman, 1946

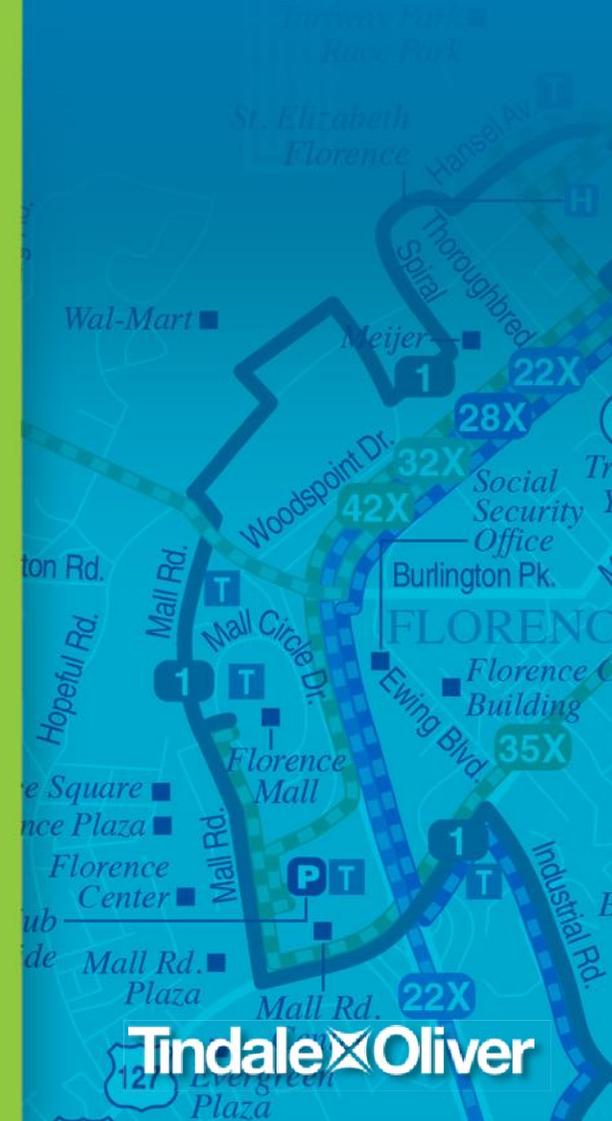
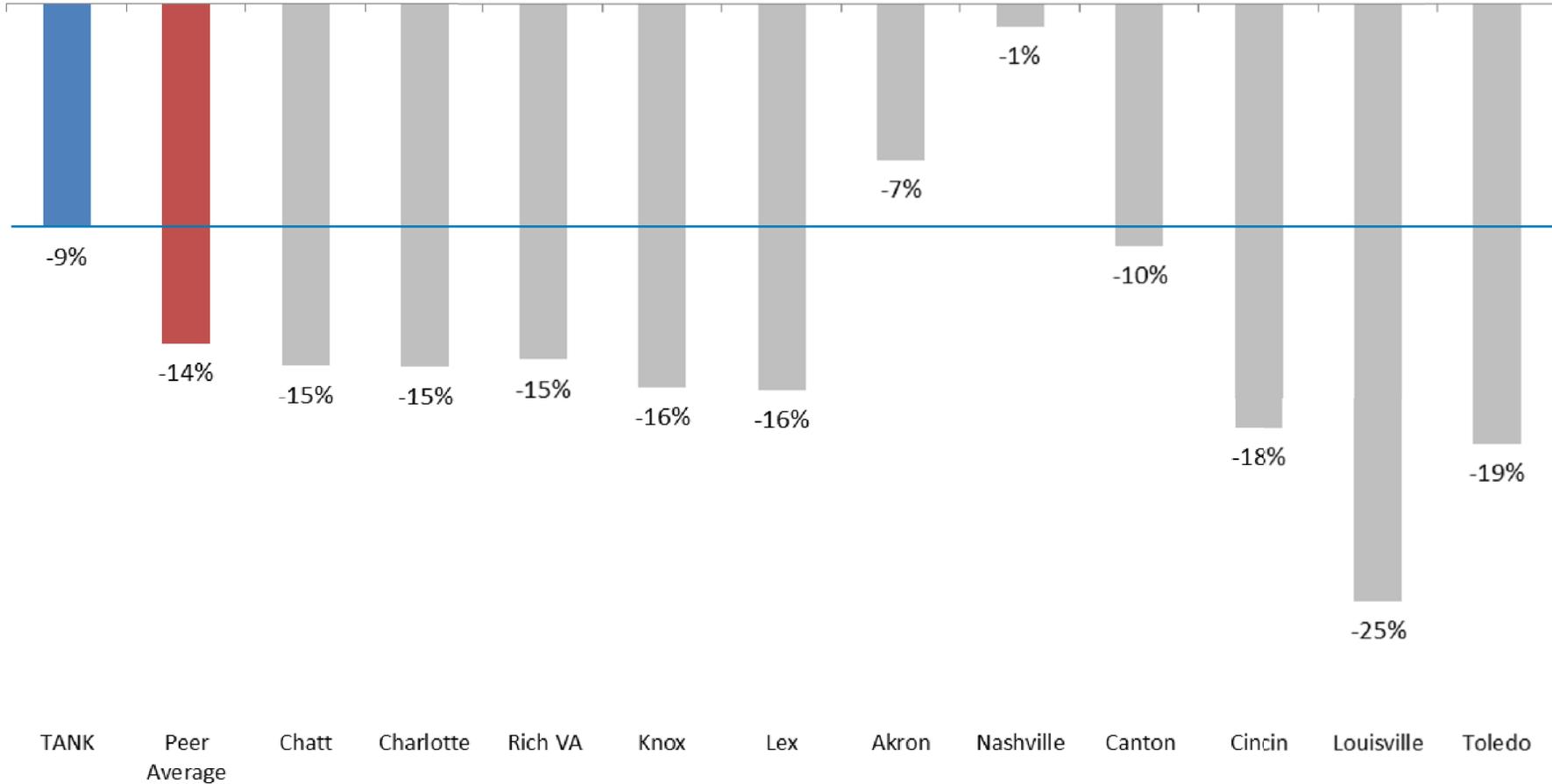
STREET CAR STATISTICS—COVINGTON, KENTUCKY

Route No.	Name of Line	Length of Route (Miles)	Number of Trips Daily	Headway in Minutes			Schedule Speed m. p. h.	Seating Capacity
				Maximum	Non-Rush	Minimum		
1	Fort Mitchell...	6.63	127	.....	18	9.4	9.96	52
2	Greenup Street ..	1.77	195	.....	12	6.4	7.74	32
3	Ludlow .....	4.97	268	.....	9	3.7	9.64	32
4	Main Street .....	2.13	264	.....	9	3.9	7.90	32
5	Holman Street ..	3.33	203	.....	11	5.5	7.89	32
6	Rosedale .....	4.41	207	70	12	6.4	8.35	52
7	Latonia .....	4.22	171	.....	12	10	8.95	32
8	Eastern Avenue..	2.28	183	.....	12	5.4	8.40	32
9	Belt Line .....	1.77	90	.....	12	12	7.53	32
10	Lewisburg .....	.....	13	.....	19	19	7.12	32



# Context reminder before we begin...

Ridership 2012 - 2017

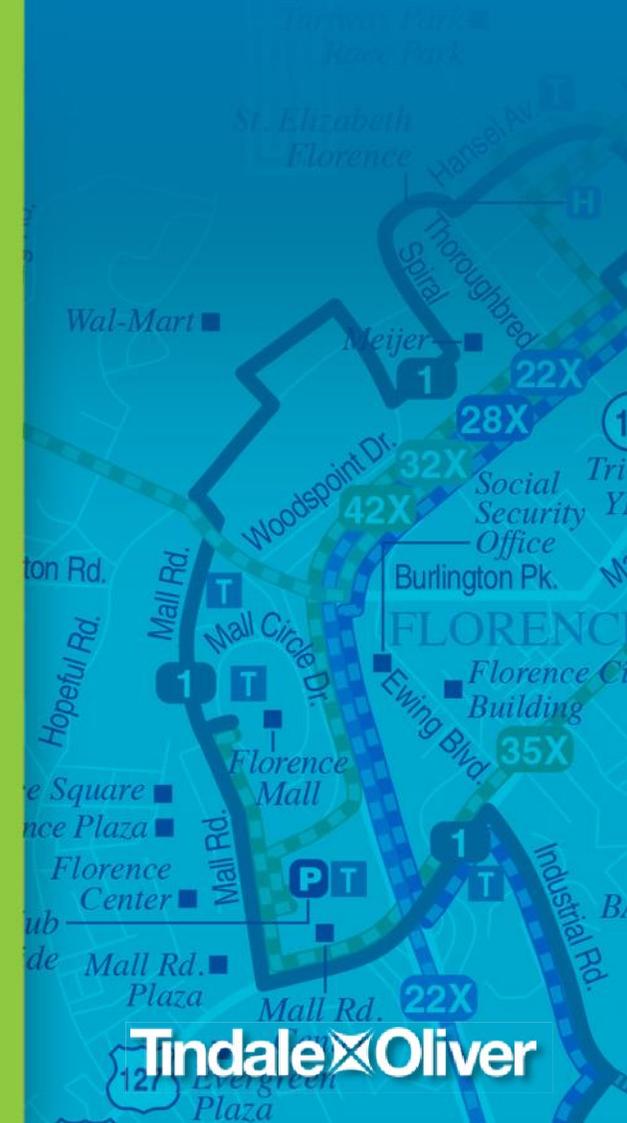


# Key Study Goals

- Reduce cost per rider / county subsidy per rider
- Financial / ridership projections more sustainable
- Improve transit travel time to jobs / access to jobs



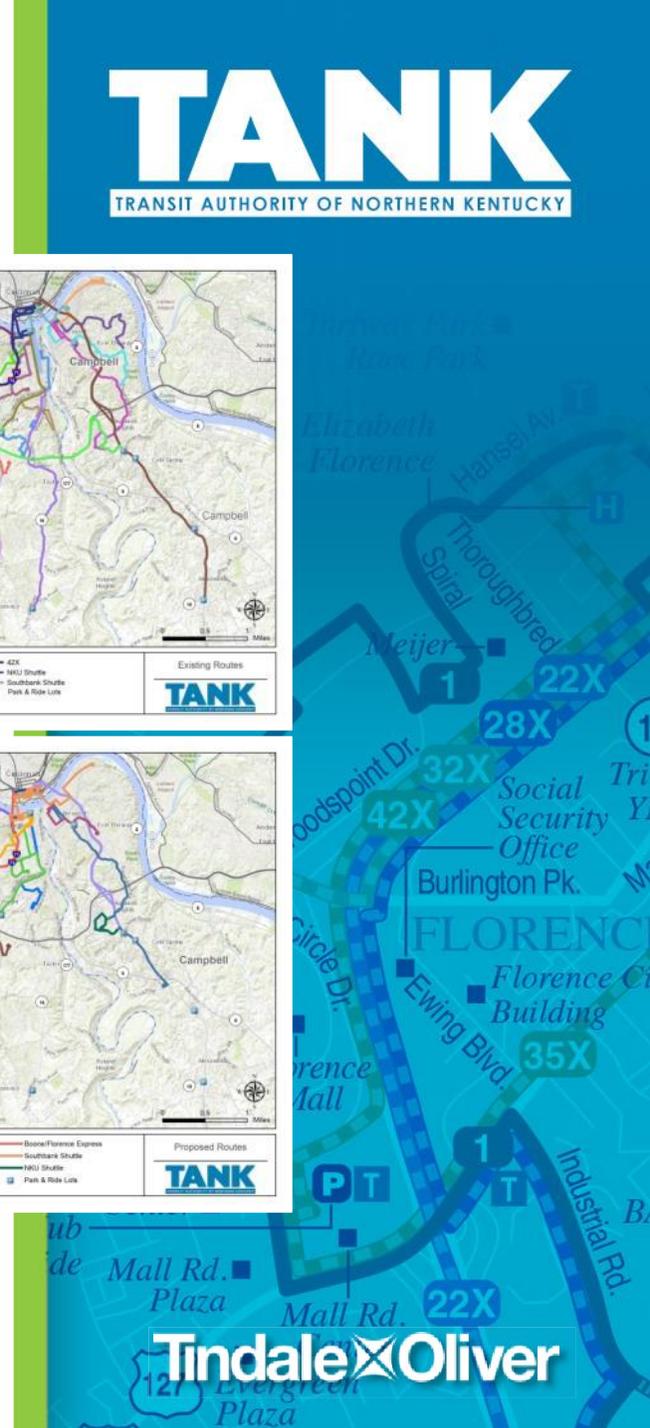
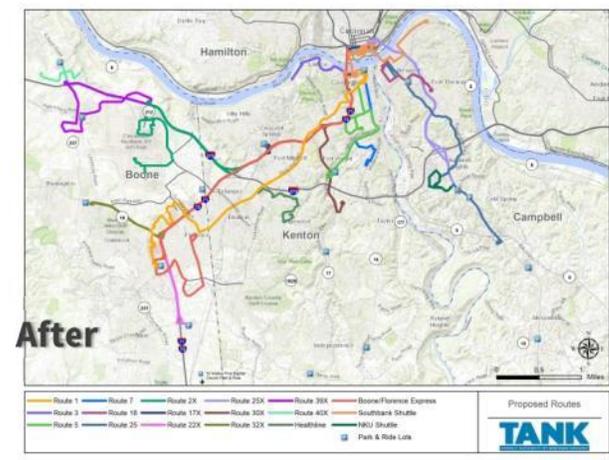
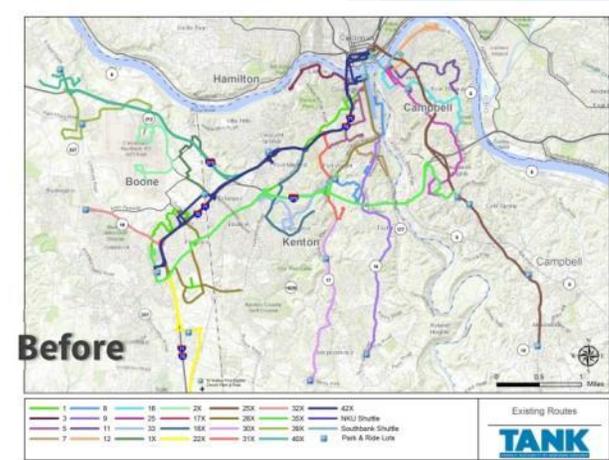
**TANK**  
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# System Redesign Study

Reconfiguration of existing transit system network to better meet local needs and resources.

- Increase ridership and/or halt declines
- Improve operational efficiencies
- Address growth & demographic shifts
- Simplify system for ease of use
- Make more effective use of resources
- Better align service with current needs

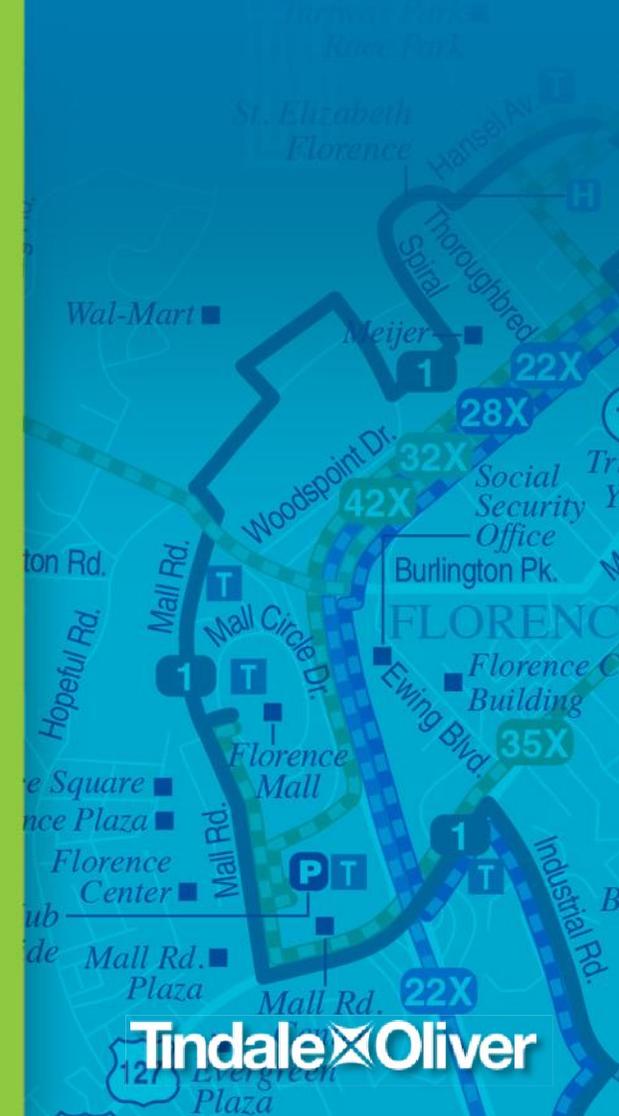


# Proposed Route Modifications

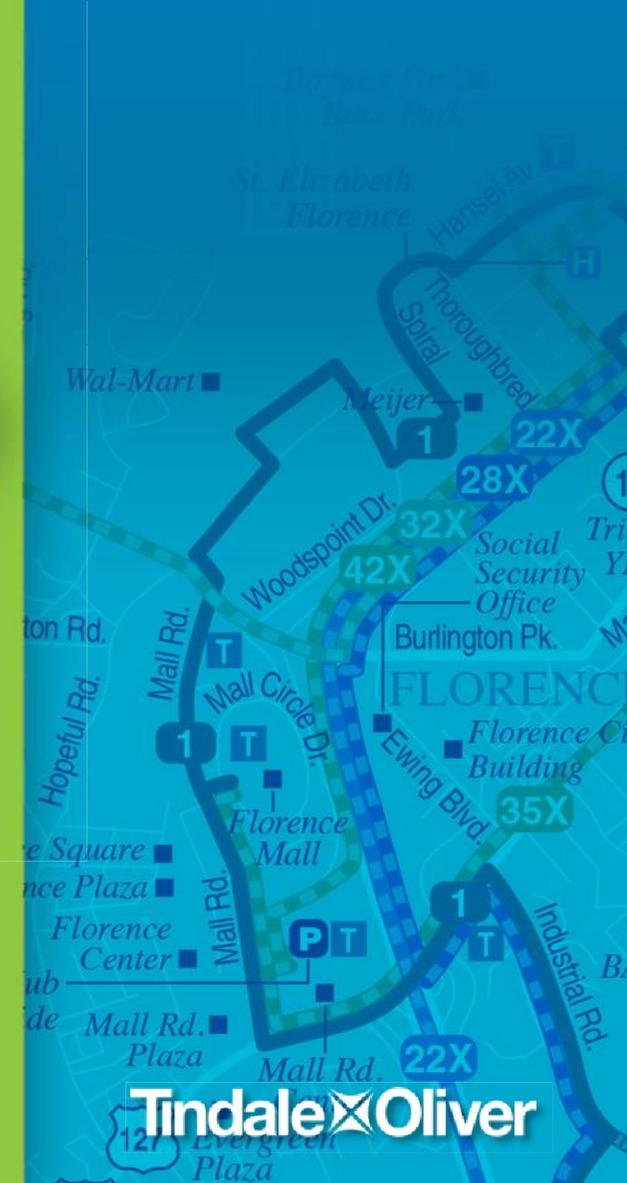
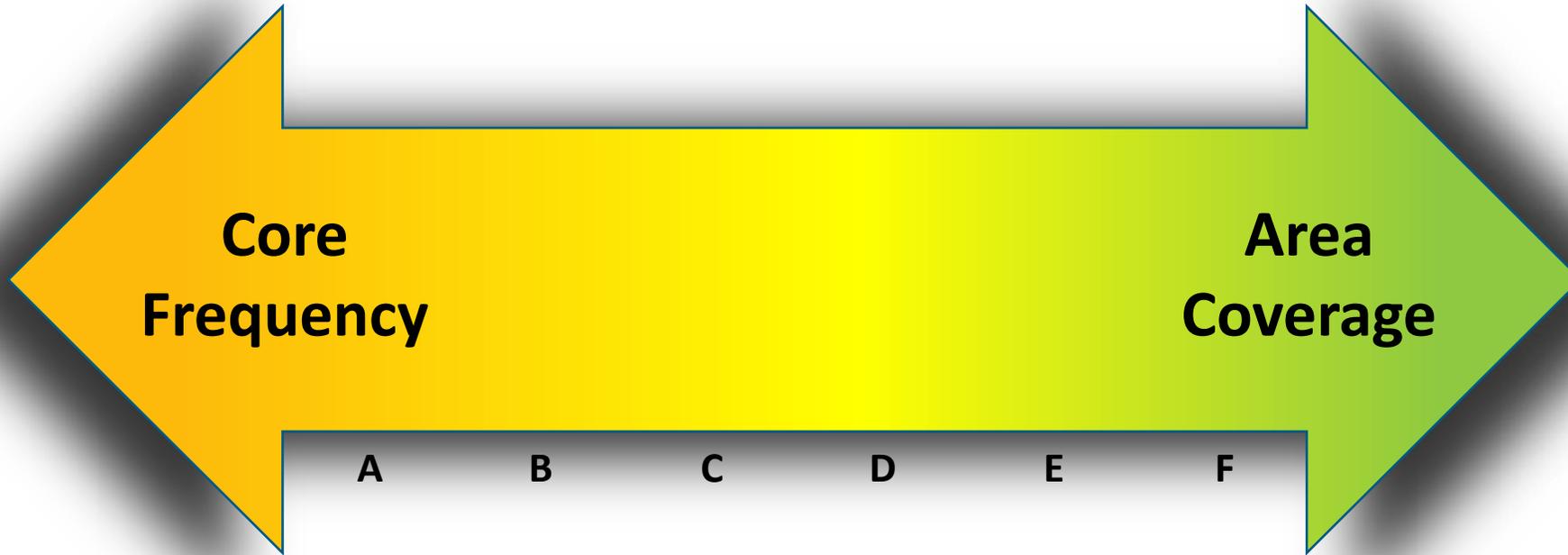
- Basis for Recommendations
  - Technical analysis
  - Field review
  - Input
    - Public
    - Stakeholders
    - Operators
    - Staff
  - Transit planning precepts
  - Professional judgment
- No Preconceived Notions



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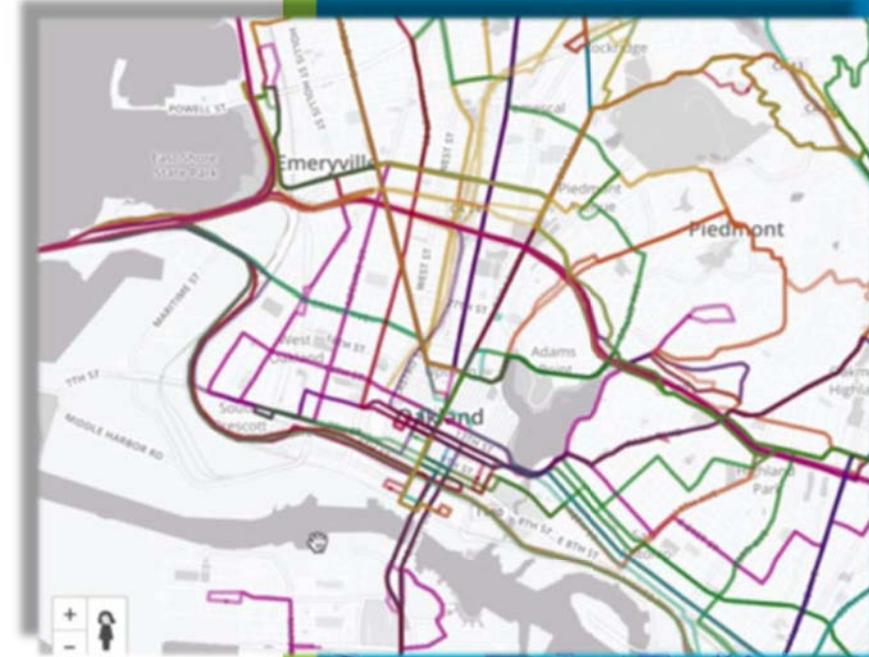


# Transit Planning Concepts



# Proposed Route Modifications

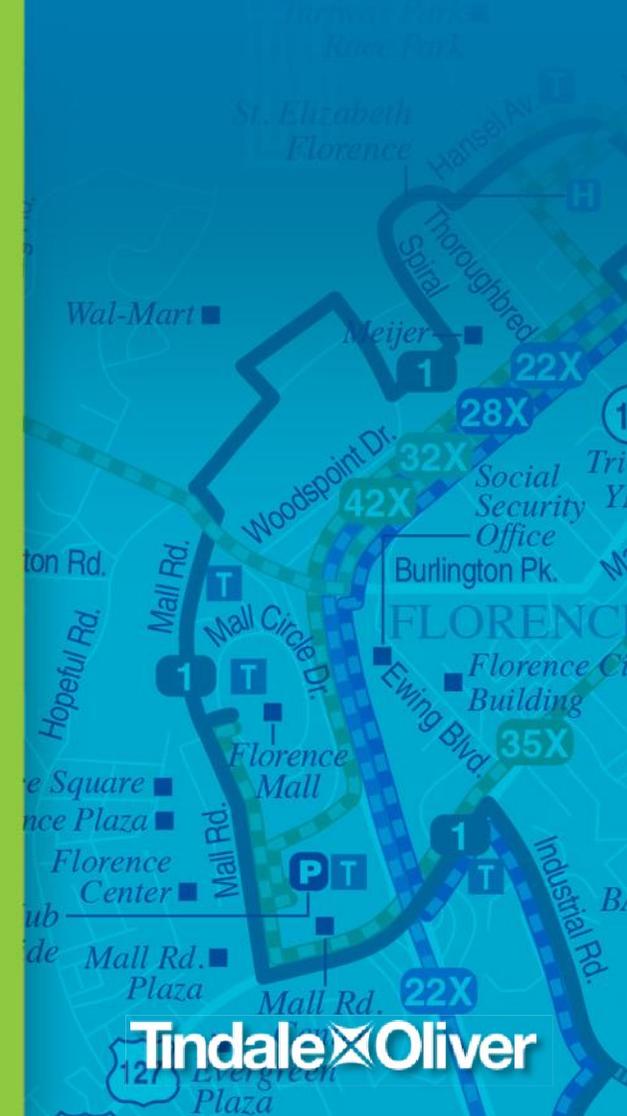
- Recommended Route Modifications Include:
  - Realignment
  - Consolidation
  - Truncation
  - Operating characteristic changes



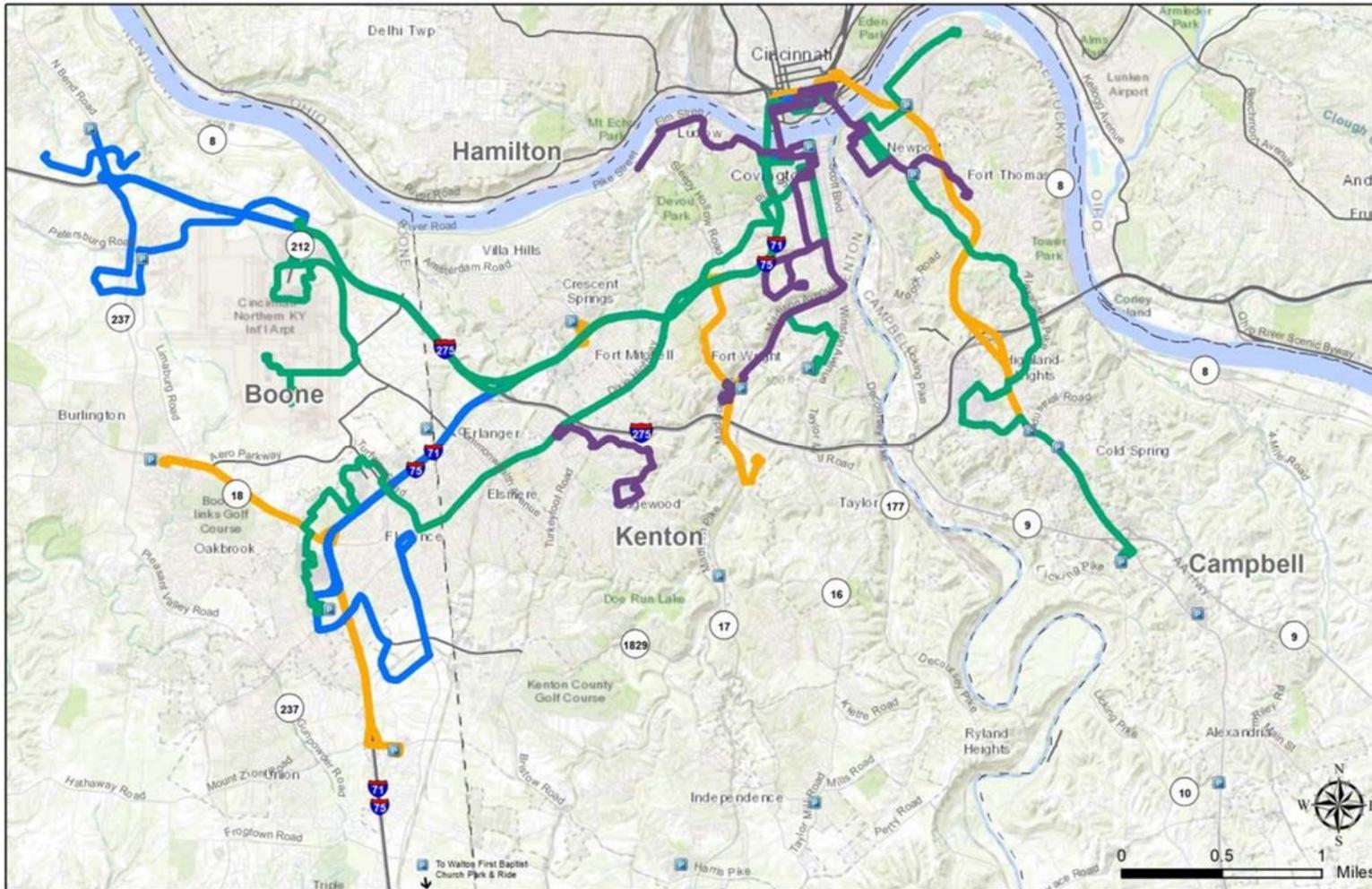
# New Service Types

- **Frequent Routes** → **TANK Frequent Service**
  - High frequency linehaul services
- **Coverage Urban** → **TANK Neighborhood Service**
  - Major lifeline routes for community circulation
- **Reverse Commute** → **TANK Jobs Express**
  - Scheduled around shift changes
  - Provides evening Park-and-Ride service
- **Park-and-Ride Service** → **TANK Commute Express**
  - Serves Park-and-Rides and inbound/outbound commuters

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# New Service Types

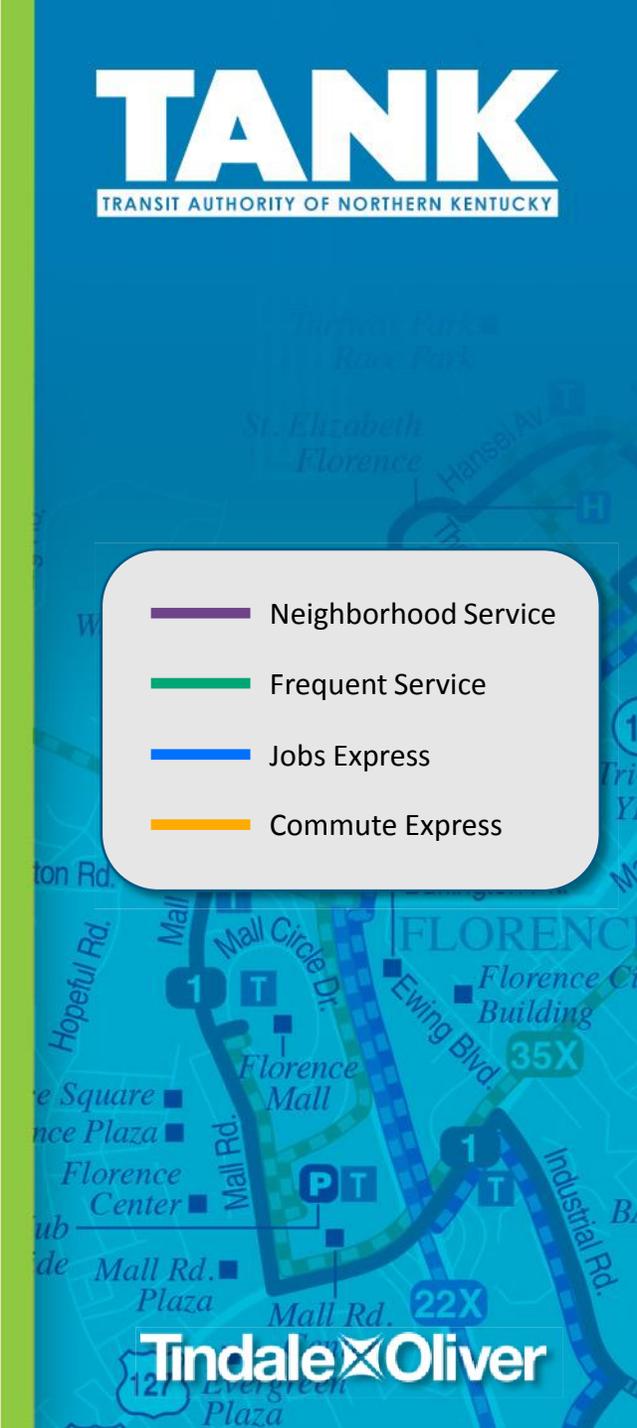


	Park-and-Ride Lots		TANK Jobs Express
	TANK Neighborhood Service		TANK Commute Express
	TANK Frequent Service		

Proposed 2020 Redesign Network

**TANK**  
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- Neighborhood Service
- Frequent Service
- Jobs Express
- Commute Express

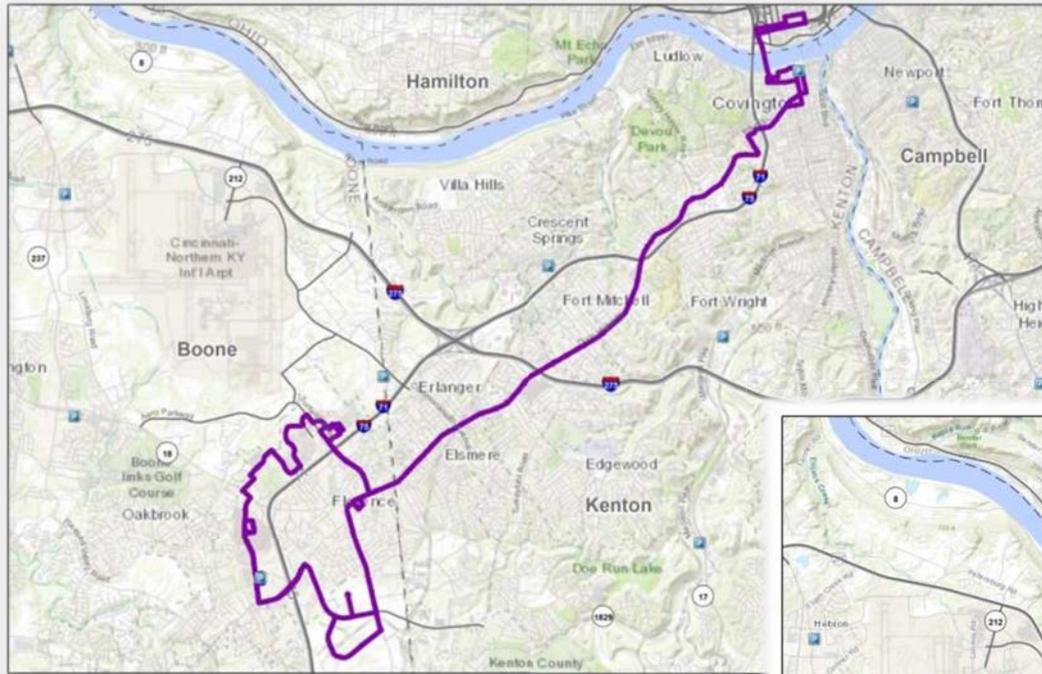


# TANK Frequent Service

- Routes include:
  - Route 1 – Dixie Hwy/Florence
  - Route 7 – Madison Ave/Latonia
  - Route 25 – US 27/NKU
  - Route 2X – Airport/Industrial Express
  - Southbank Shuttle/Route 12

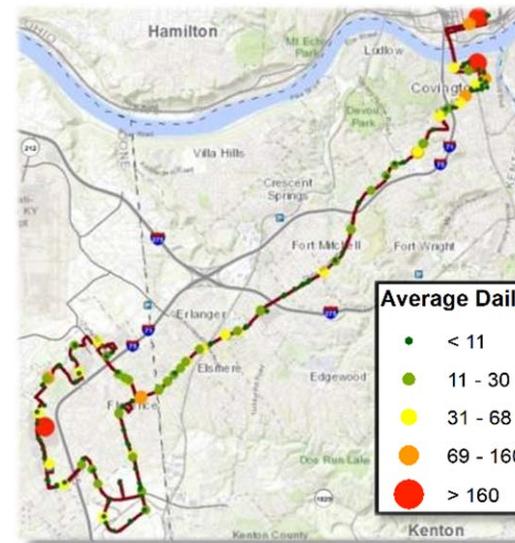


# Route 1 – Dixie Hwy / Florence



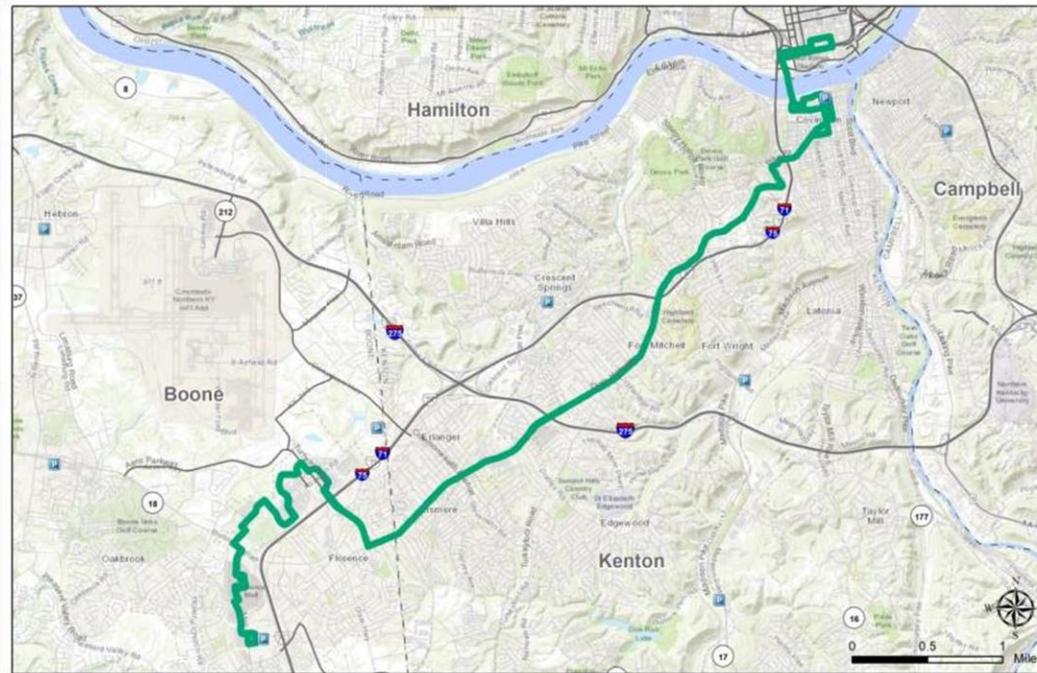
**Existing Transit Services**

- Park & Ride Lots
- Route 1



**Average Daily Ridership**

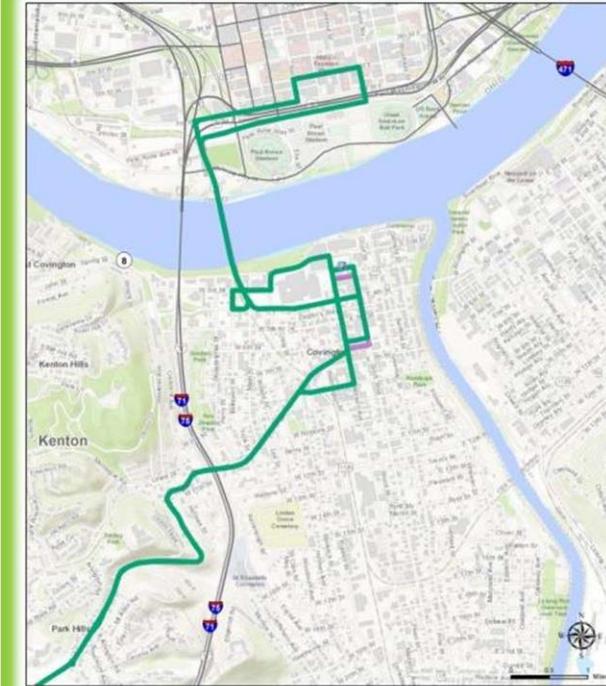
- < 11
- 11 - 30
- 31 - 68
- 69 - 160
- > 160



**Existing Transit Services Proposed Route**

- Park & Ride Lots
- Route 1

Route 1- Dixie Hwy/Florence



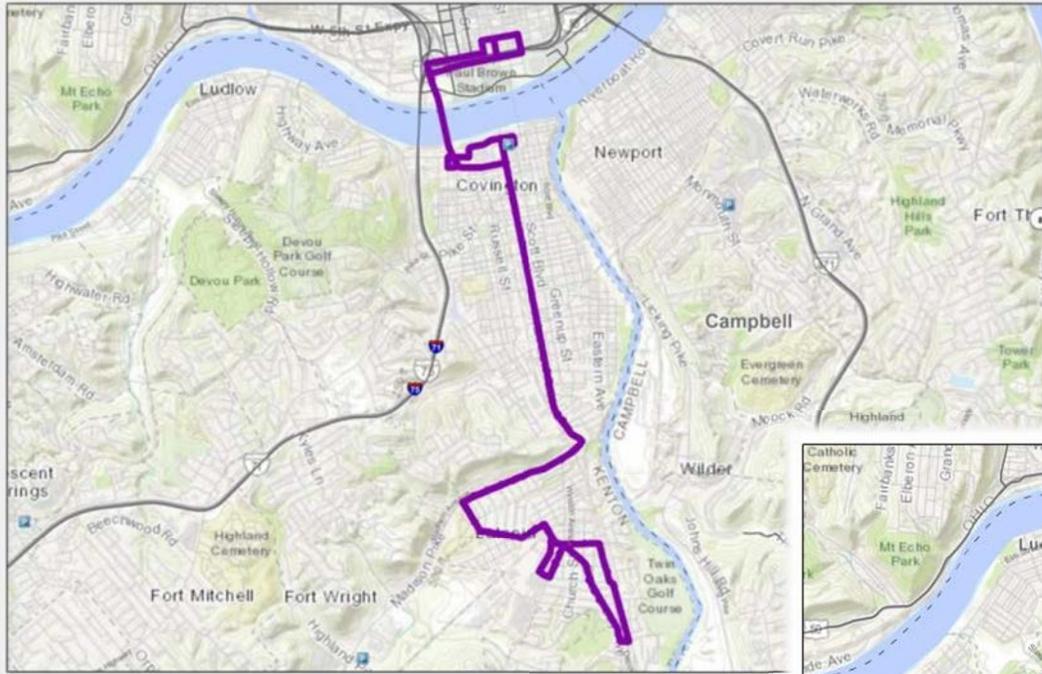
**Existing Transit Services Proposed Route**

- Park & Ride Lots
- Route 1

Route 1 - Dixie Highway/Florence

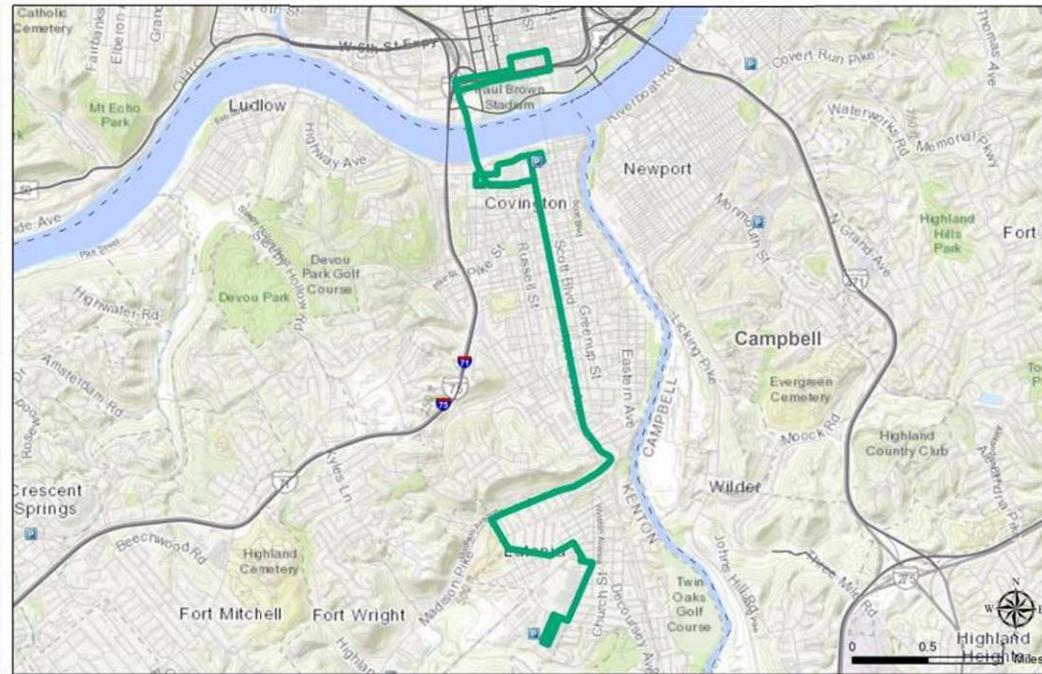
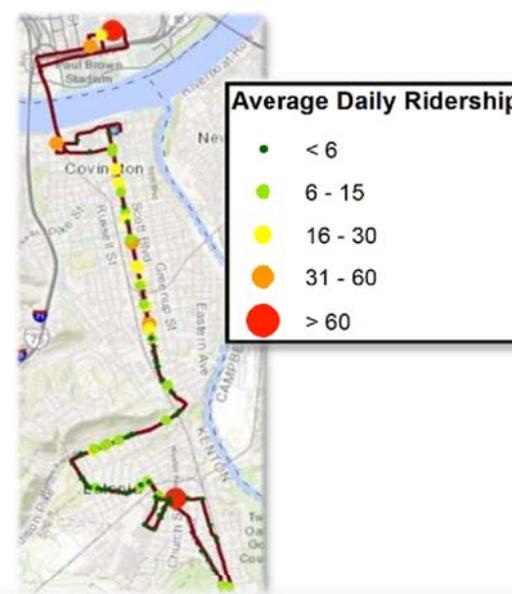


# Route 7 – Madison Ave / Latonia



**Existing Transit Services**

- Park & Ride Lots
- Route 7



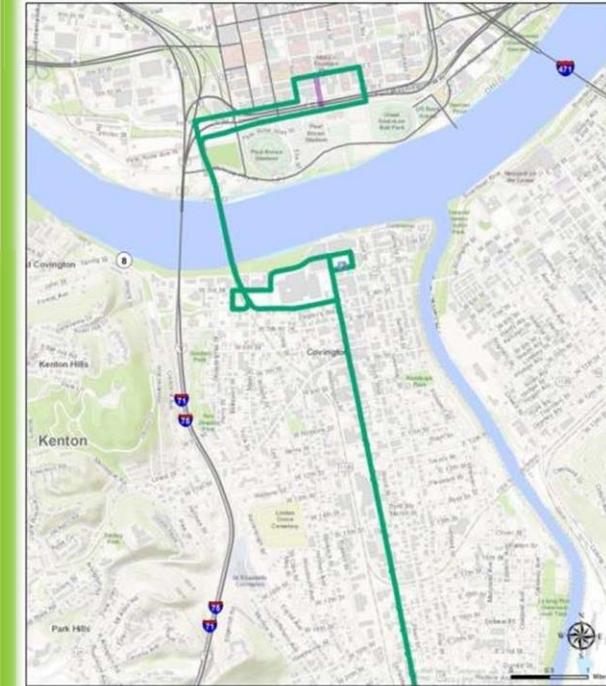
**Transit Services**

- Park & Ride Lots

**Proposed Route**

- Route 7

Route 7 - Madison Ave / Latonia



**Existing Transit Services**

- Park & Ride Lots
- Route 7

**Proposed Route**

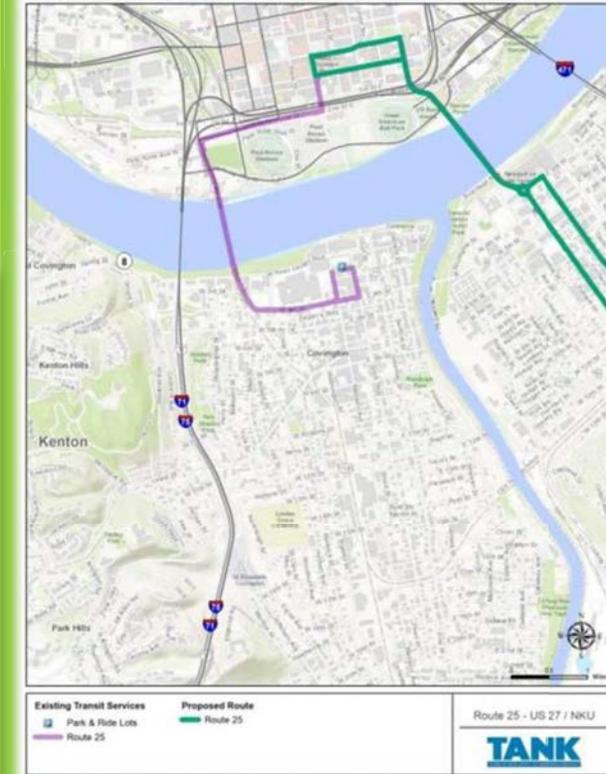
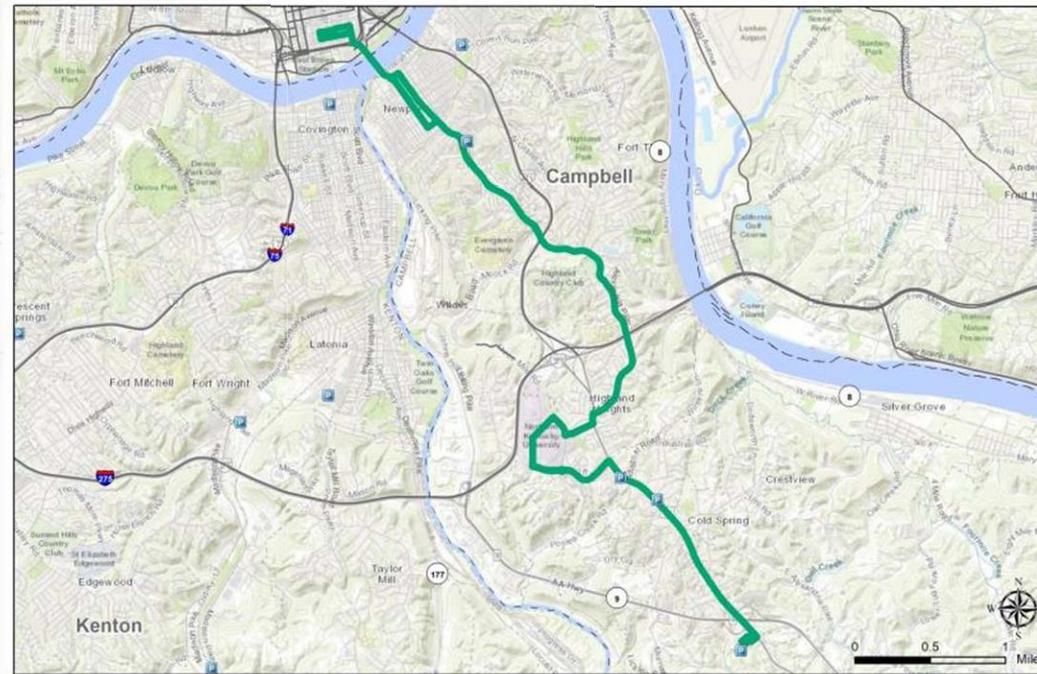
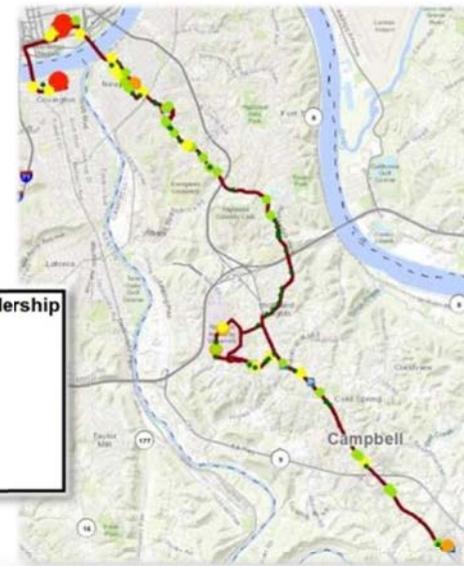
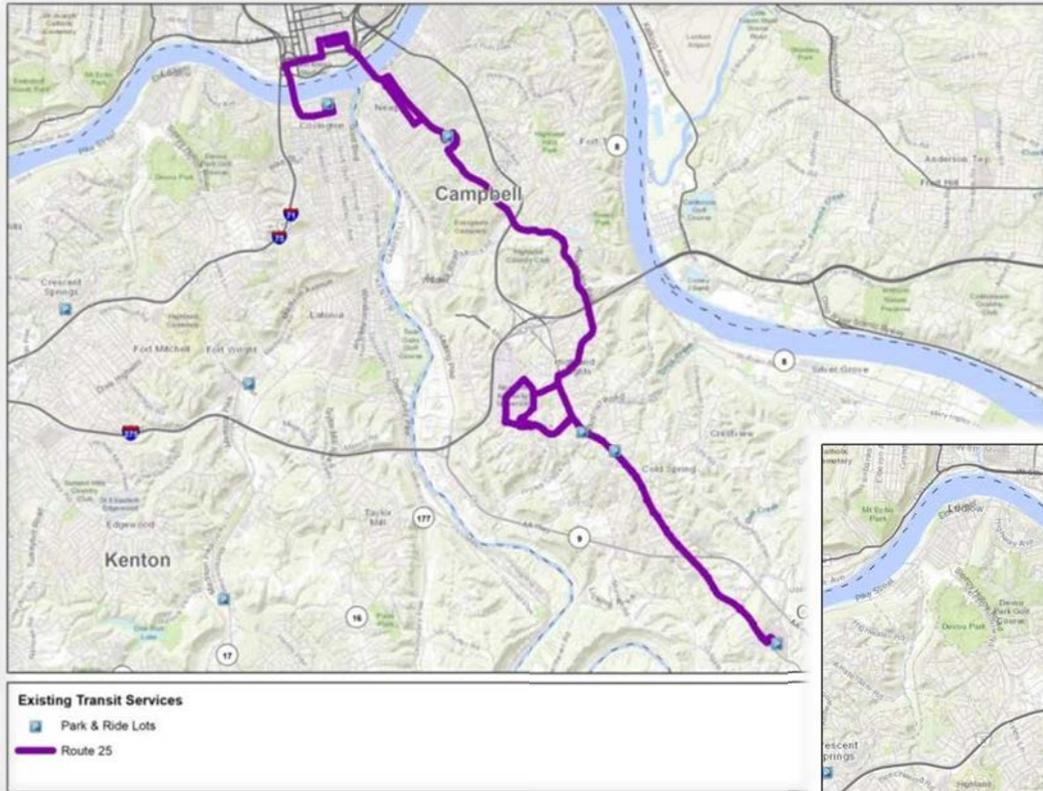
- Route 7

Route 7 - Madison Ave / Latonia



Recommend a park-and-ride at Latonia Plaza.

# Route 25 – US 27 / NKU



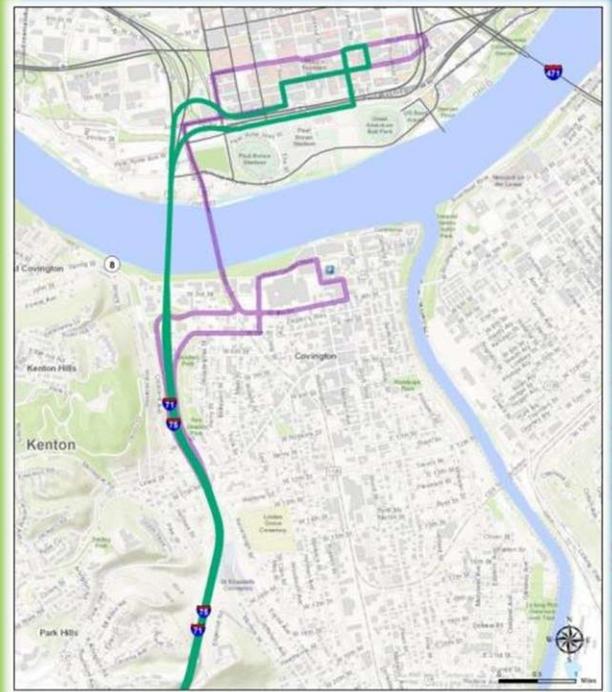
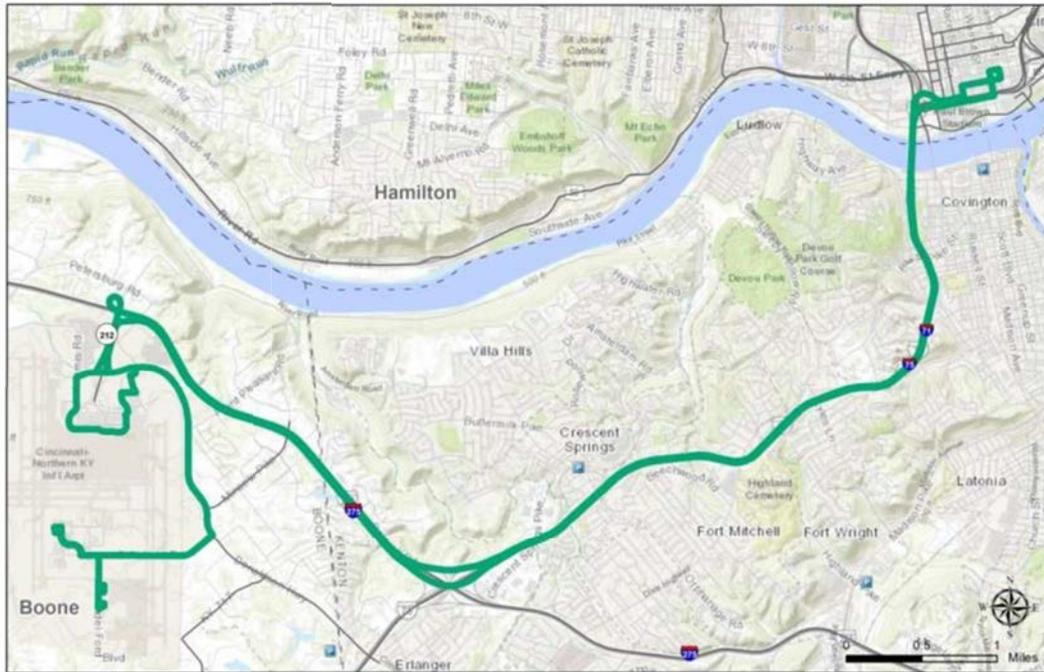
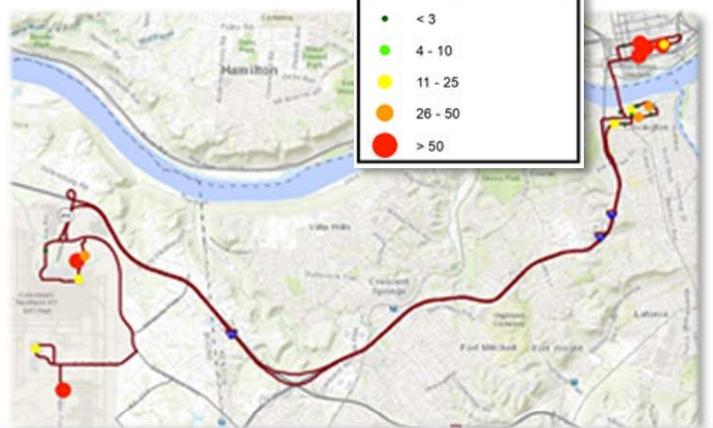
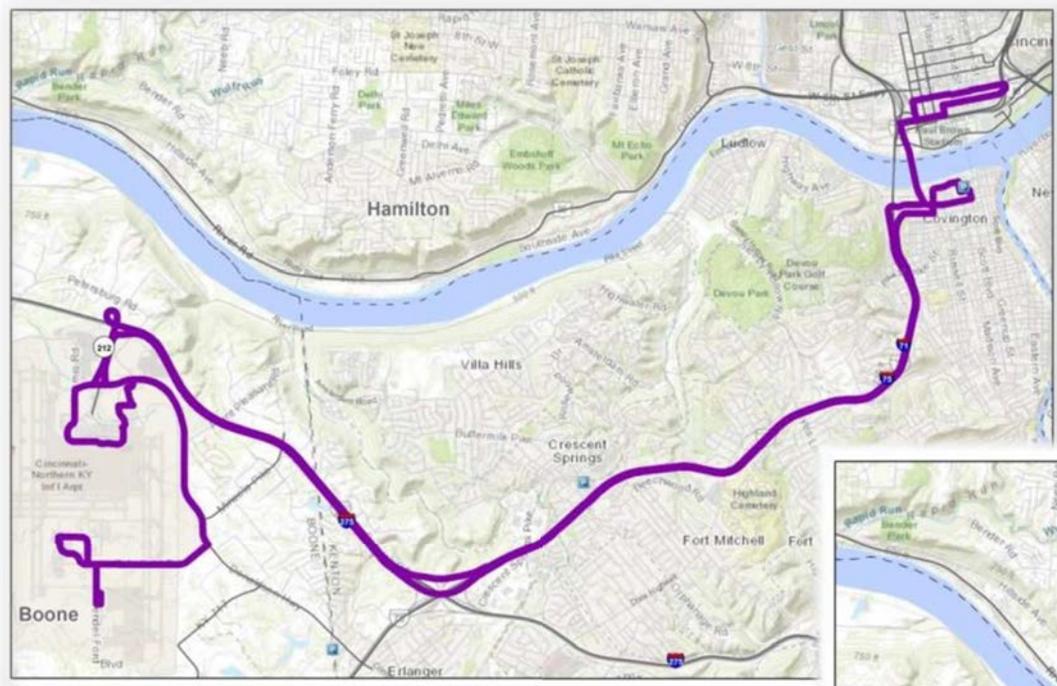
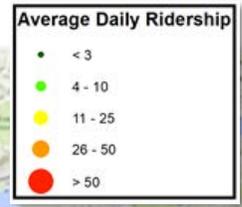
Recommend a park-and-ride at Meijer at US 27 and AA Hwy.



# Route 2X – CVG / Industrial Express

# TANK

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**Existing Transit Services**

- Park & Ride Lots
- Route 2X

**Existing Transit Services**      **Proposed Route**

- Park & Ride Lots
- Route 2X
- Route 2X

Route 2X - CVG / Industrial Express

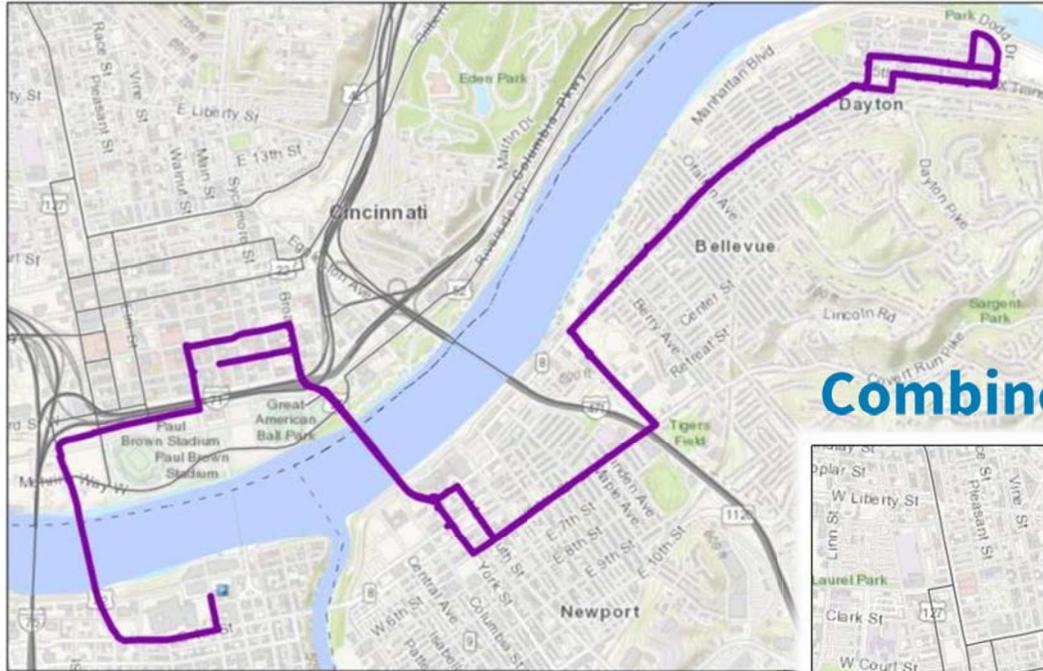
**Existing Transit Services**      **Proposed Route**

- Park & Ride Lots
- Route 2X

Route 2X - CVG / Industrial Express

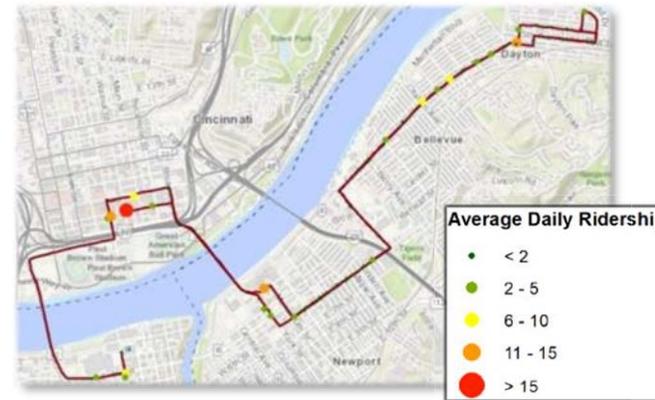
**Tindale Oliver**

# Route 12 – Bellevue / Dayton

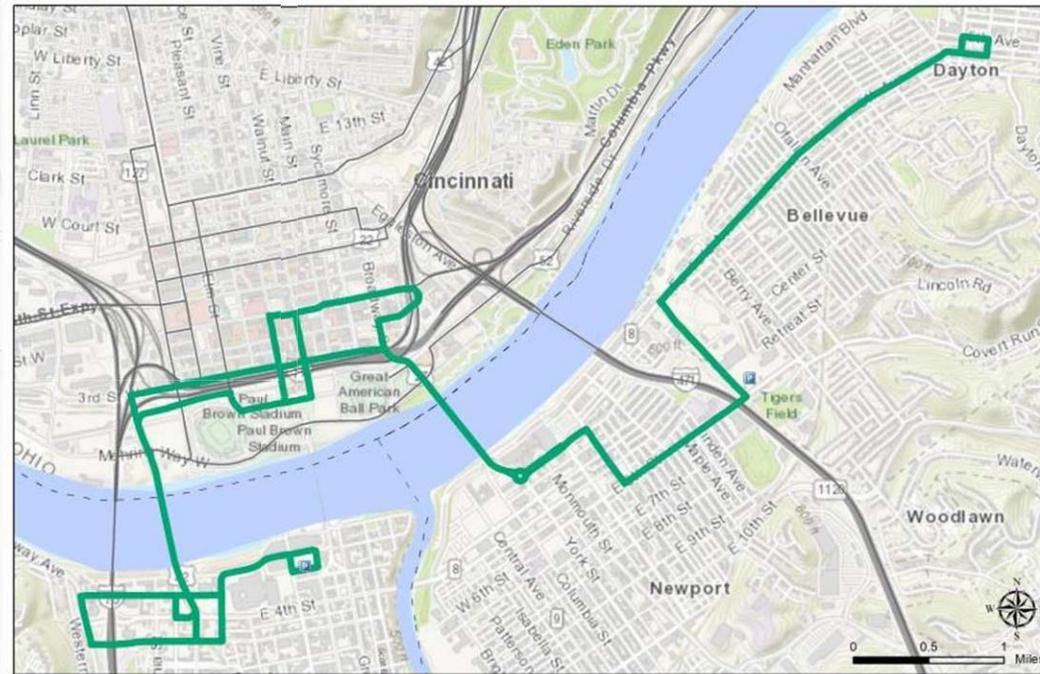


**Existing Transit Services**

- Park & Ride Lots
- Route 12



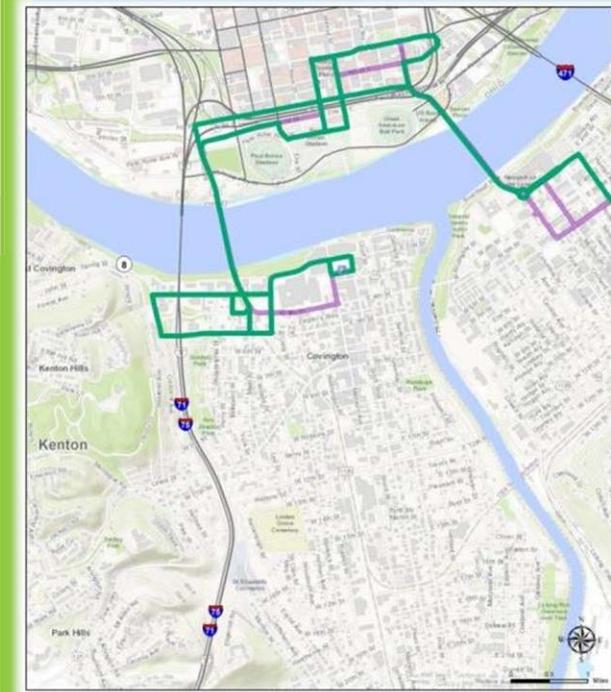
## Combined with Southbank Shuttle



**Existing Transit Services**    **Proposed Route**

- Park & Ride Lots
- Southbank Shuttle

Route - Southbank Shuttle



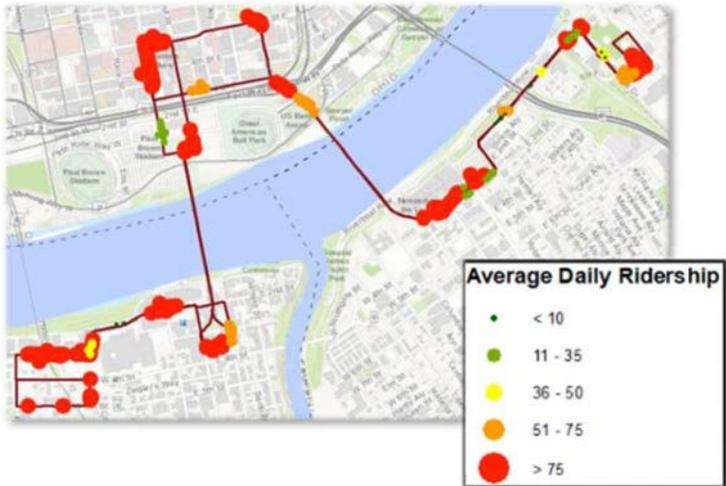
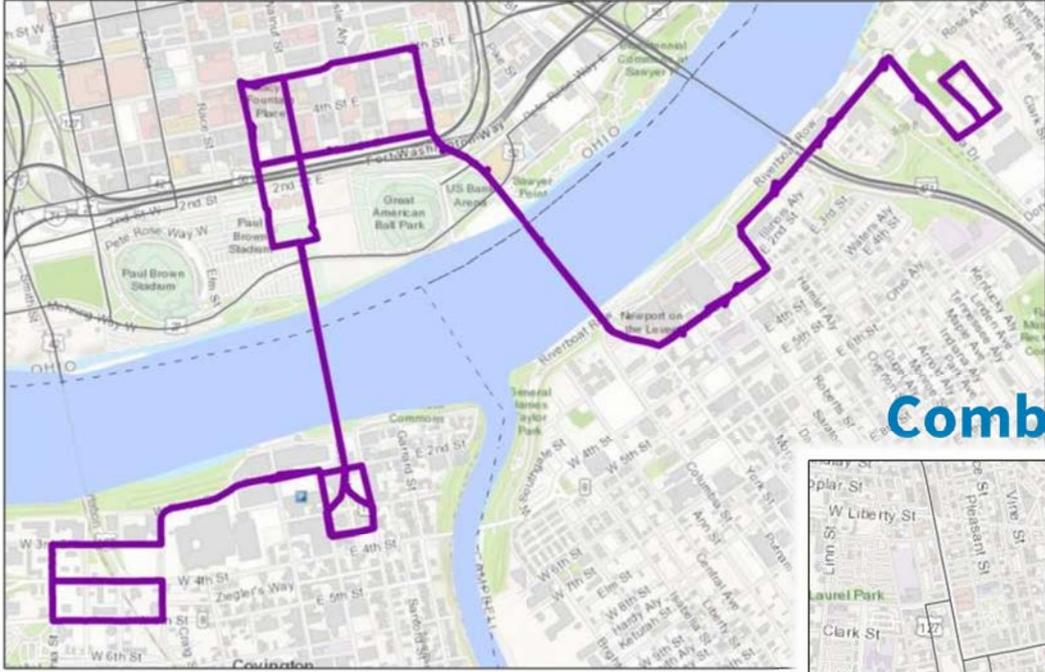
**Existing Transit Services**    **Proposed Route**

- Park & Ride Lots
- Route 12
- Southbank Shuttle

Route 12 - Bellevue / Dayton Southbank Shuttle

Recommend a park-and-ride at 6<sup>th</sup> and Donnermeyer Drive.

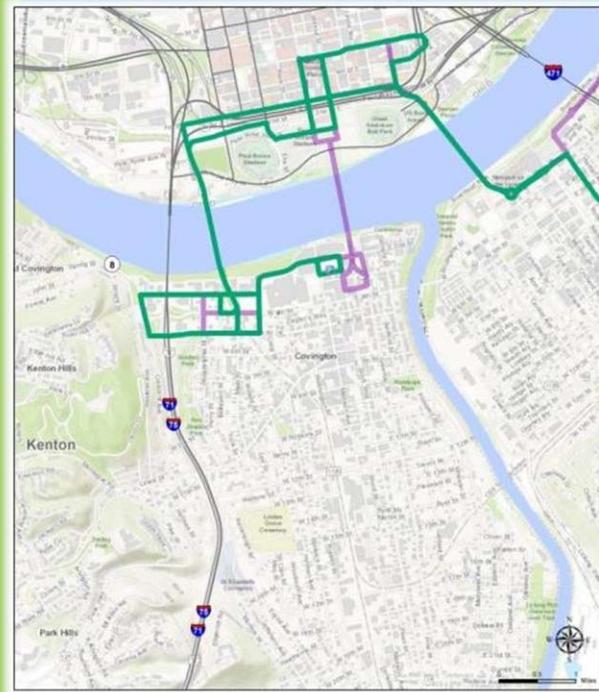
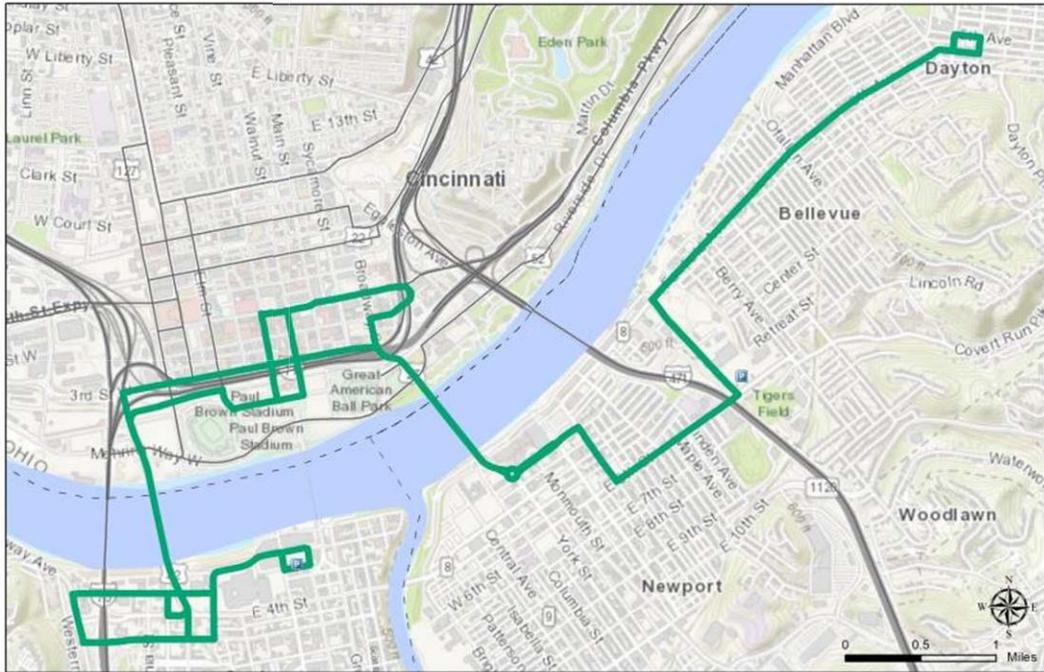
# Southbank Shuttle



## Combined with Route 12

**Existing Transit Services**

- Park & Ride Lots
- Southbank Shuttle



**Existing Transit Services**

- Park & Ride Lots
- Southbank Shuttle

**Proposed Route**

- Southbank Shuttle

Southbank Shuttle

Recommend a park-and-ride at 6<sup>th</sup> and Donnemeyer Drive.

**Existing Transit Services**

- Park & Ride Lots

**Proposed Route**

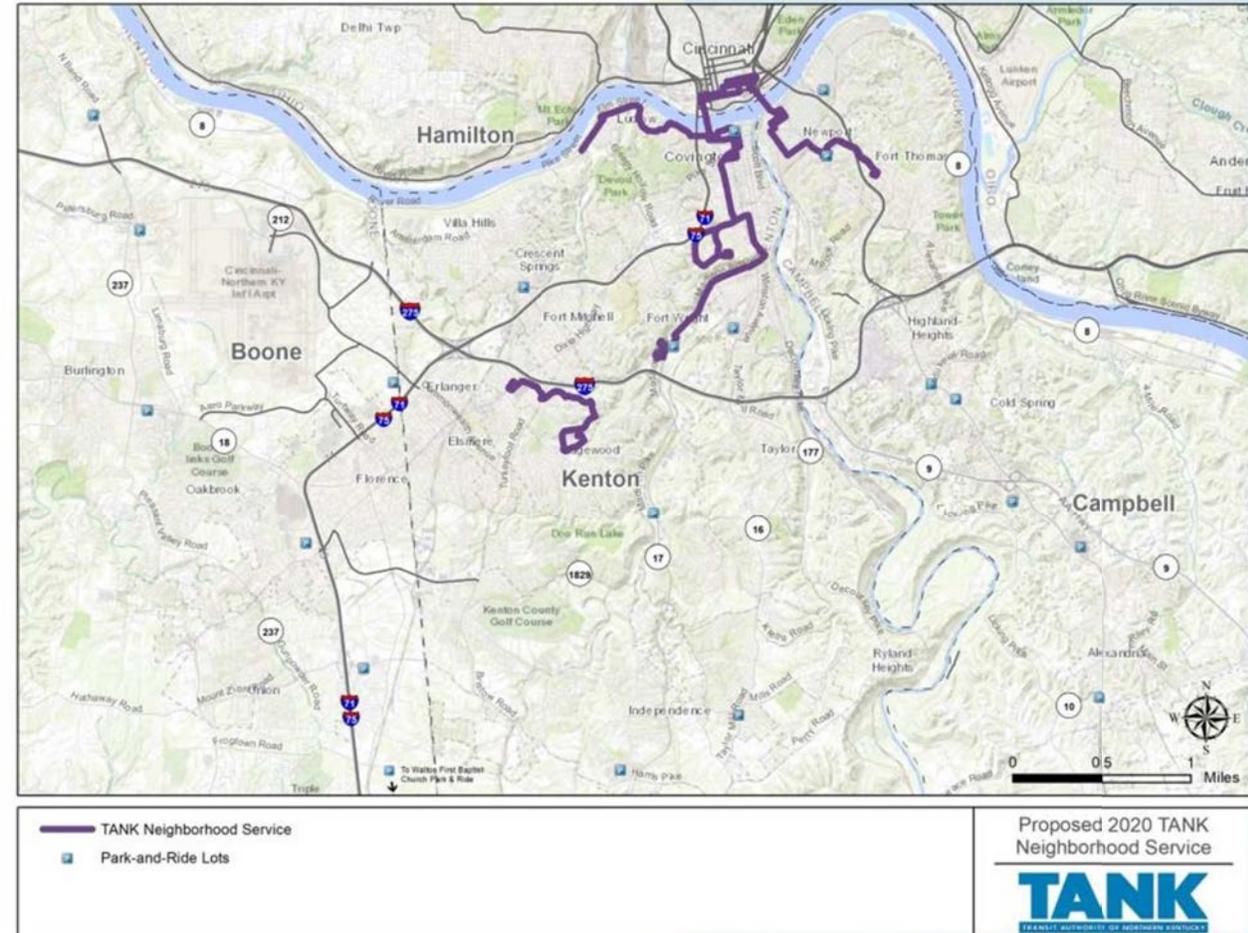
- Southbank Shuttle

Route - Southbank Shuttle

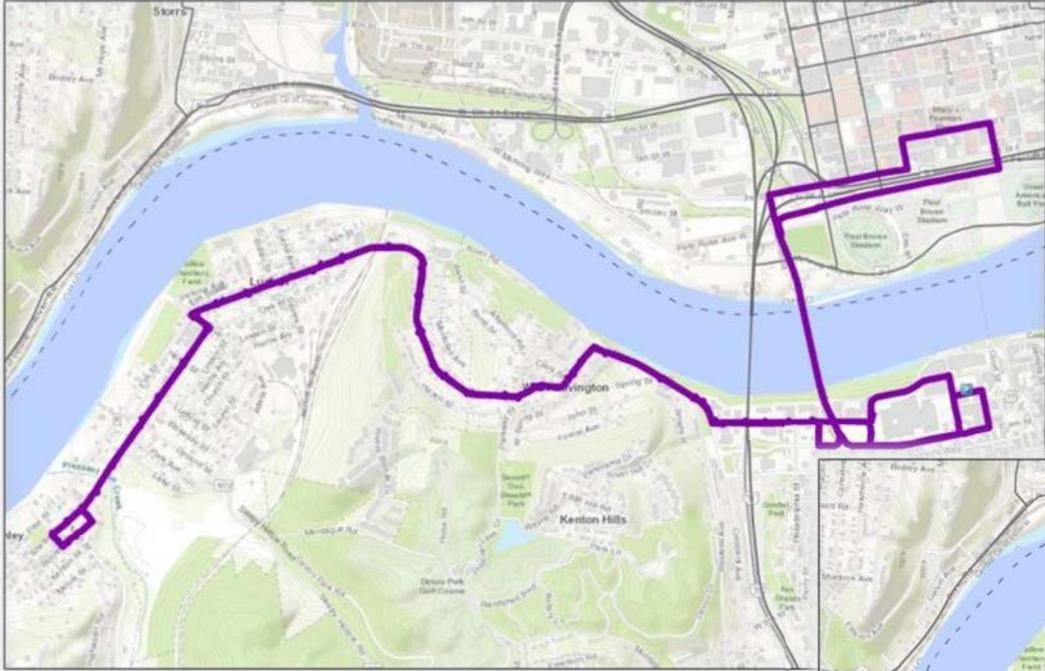
**Tindale Oliver**

# TANK Neighborhood Service

- Routes include:
  - Route 3 – Ludlow/Bromley
  - Route 5 – Covington/City Heights
  - Route 16 – West Newport
  - Healthline (current Route 33)

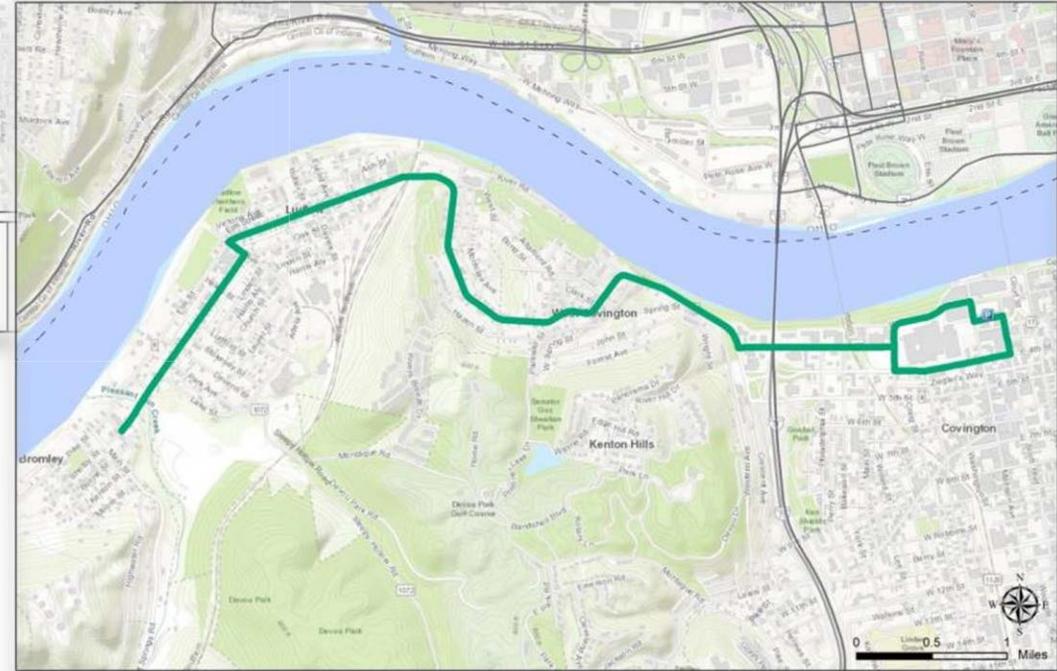
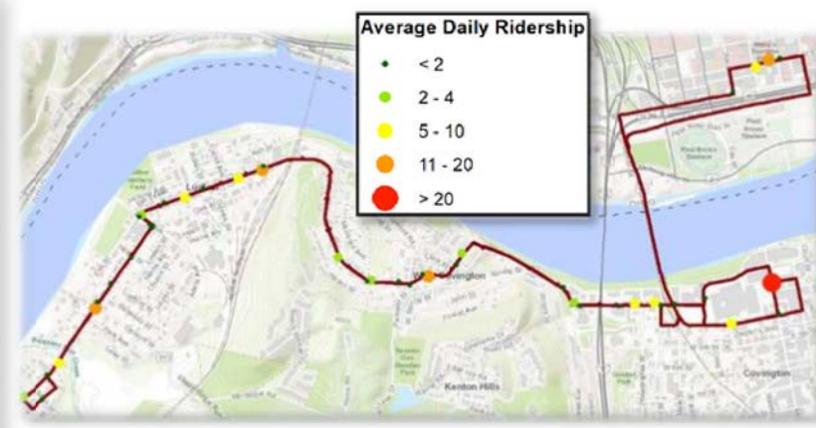


# Route 3 – Ludlow / Bromley



**Existing Transit Services**

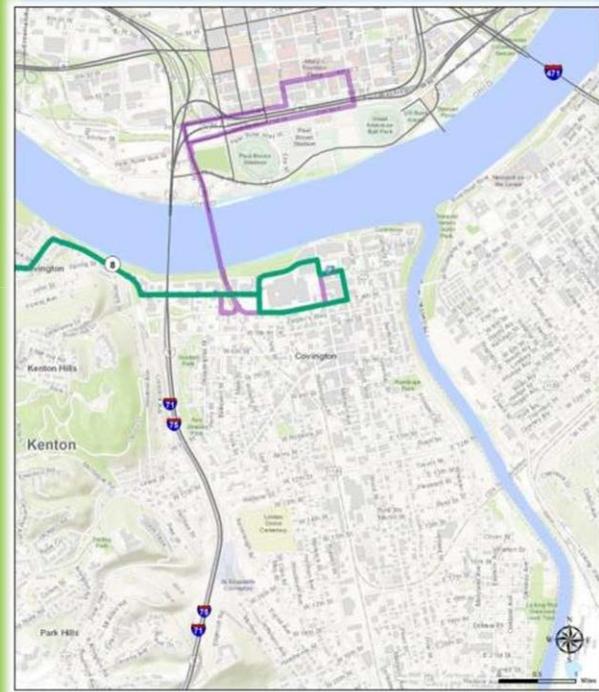
- Park & Ride Lots
- Route 3



**Existing Transit Services**    **Proposed Route**

- Park & Ride Lots
- Route 3

Route 3 - Ludlow / Bromley



**Existing Transit Services**    **Proposed Route**

- Park & Ride Lots
- Route 3
- Route 3

Route 3 - Ludlow / Bromley



# Route 5 – Covington / City Heights

# TANK

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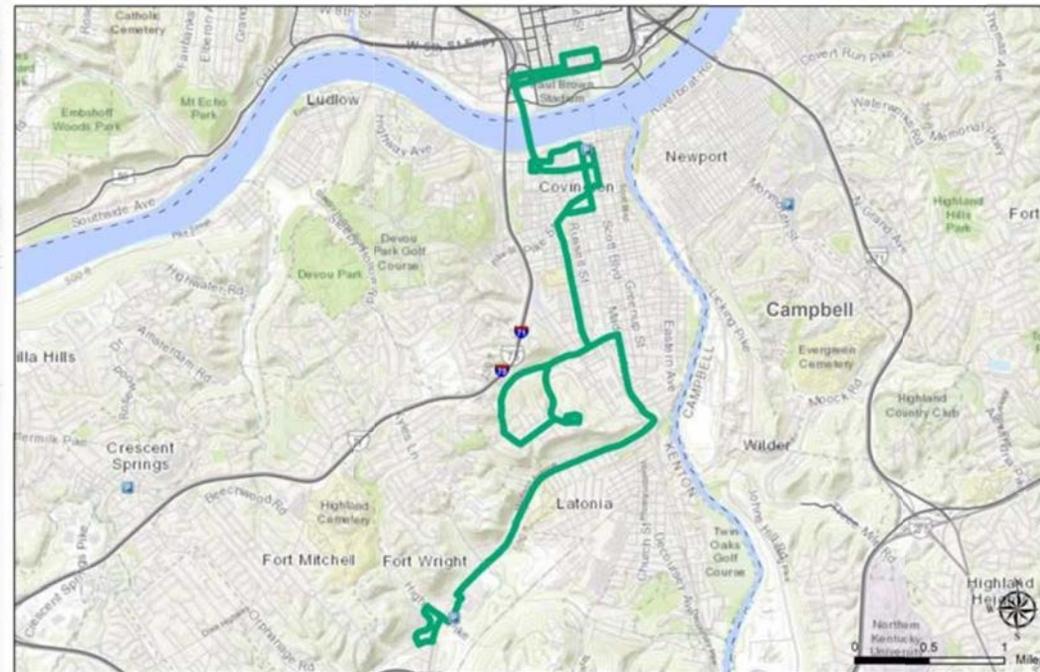


**Existing Transit Services**

- Park & Ride Lots
- Route 5

**Average Daily Ridership**

- < 6
- 6 - 15
- 16 - 30
- 31 - 60
- > 60

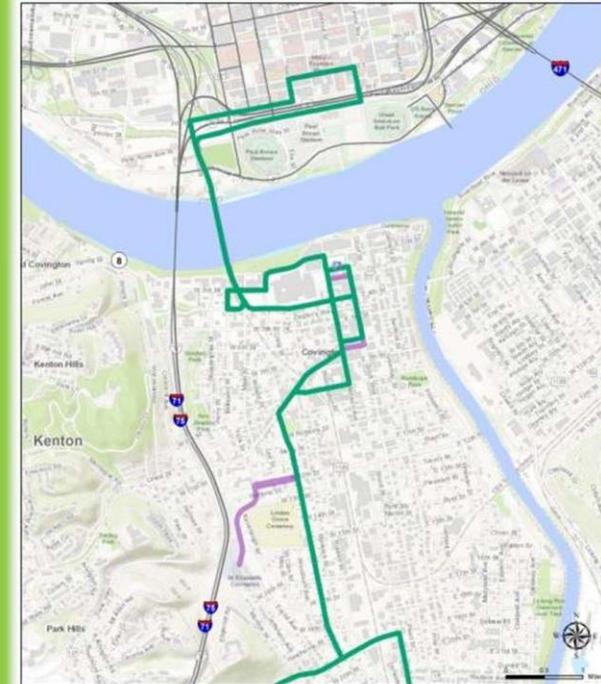


**Existing Transit Services Proposed Route**

- Park & Ride Lots
- Proposed Route 5

Route 5 - Covington / City Heights

**TANK**



**Existing Transit Services Proposed Route**

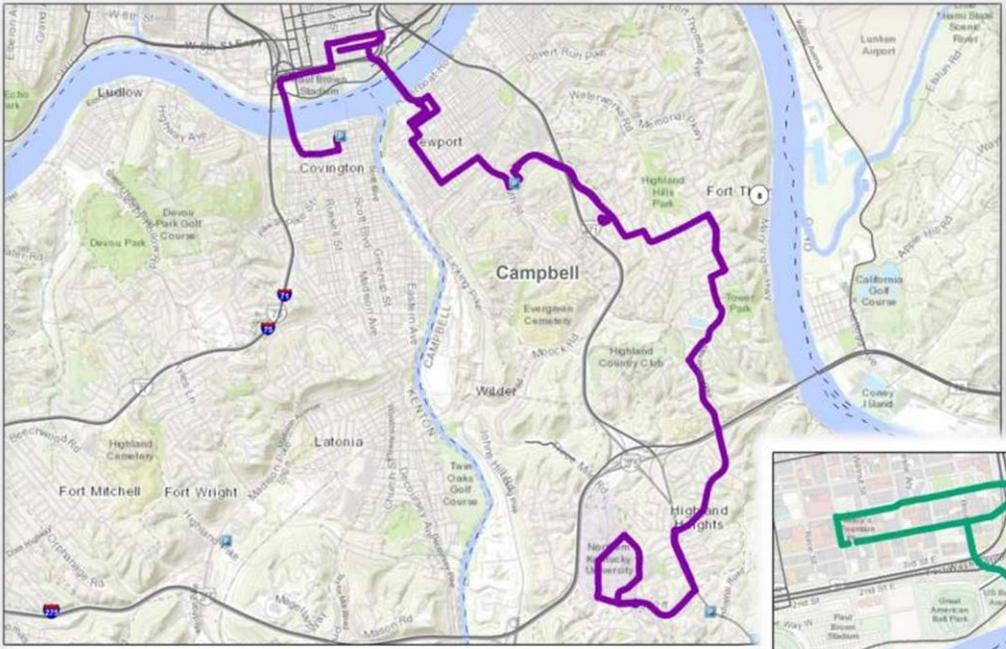
- Park & Ride Lots
- Proposed Route 5
- Current Route 5

Route 5 - Covington / City Heights

**TANK**

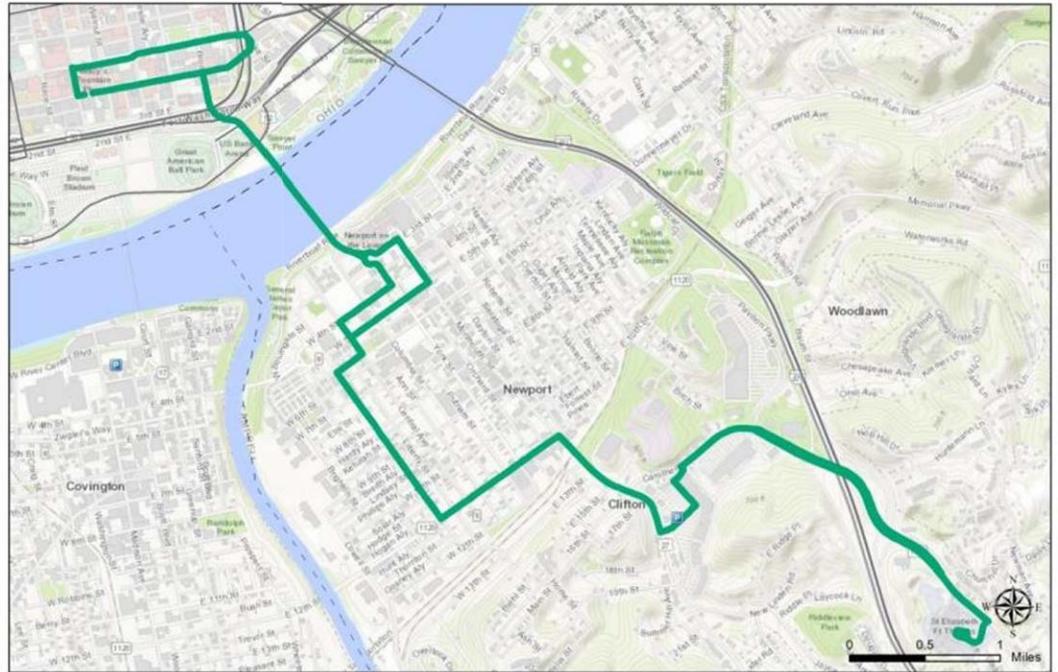
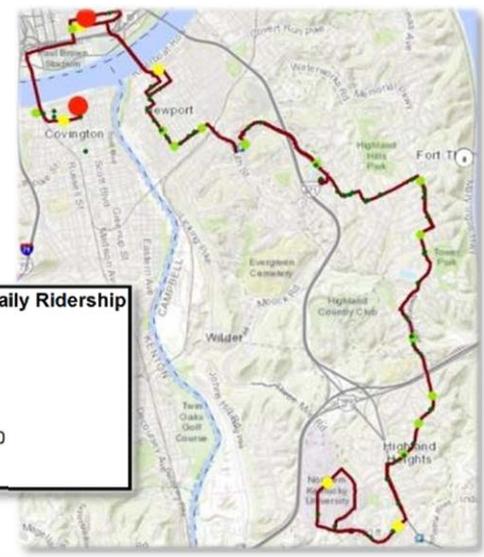
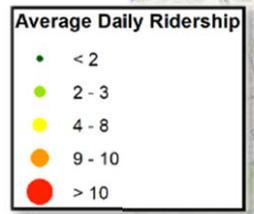


# Route 16 – West Newport



**Existing Transit Services**

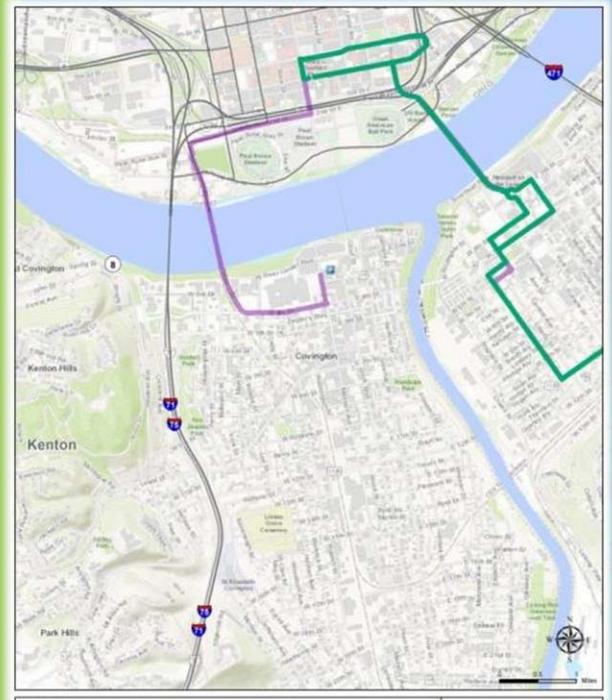
- Park & Ride Lots
- Route 16



**Existing Transit Services**    **Proposed Route**

- Park & Ride Lots
- Route 16

Route 16 - West Newport



**Existing Transit Services**    **Proposed Route**

- Park & Ride Lots
- Route 16

Route 16 - West Newport

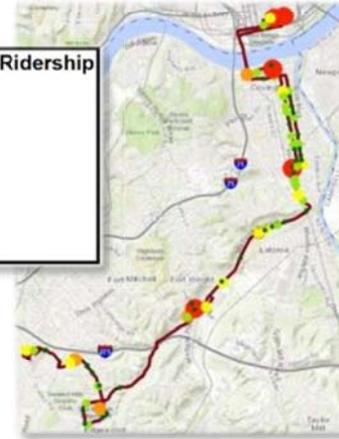
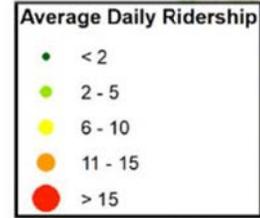
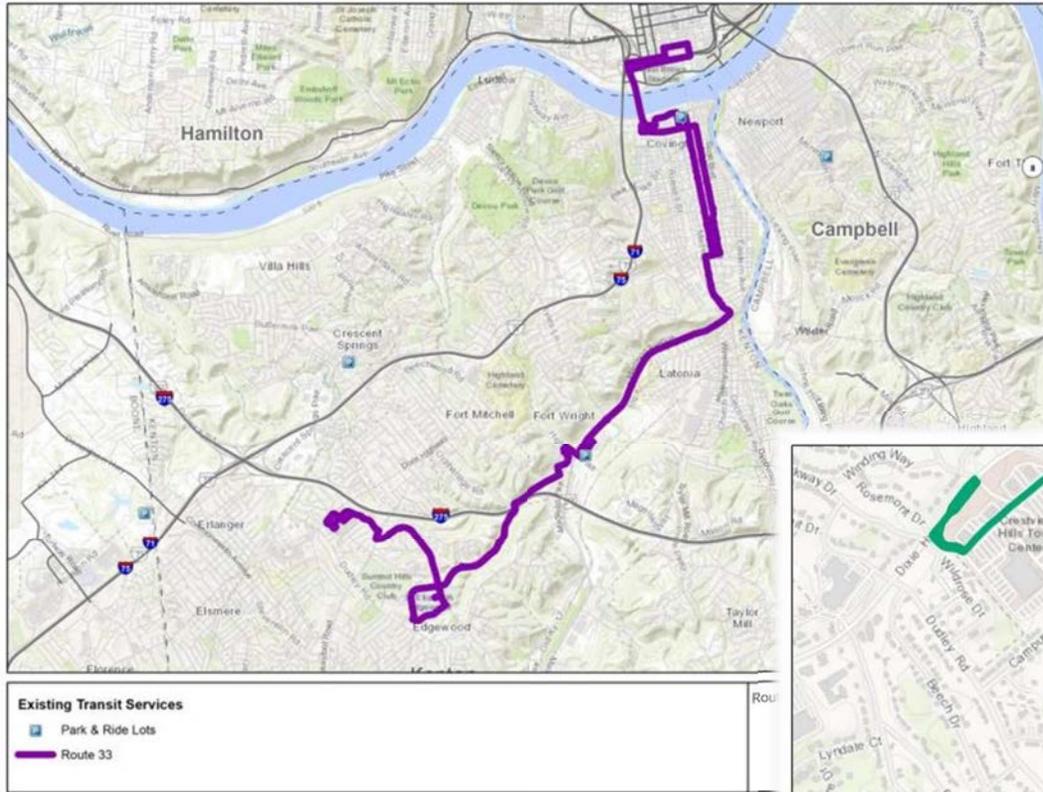


**Existing Transit Services**    **Proposed Route**

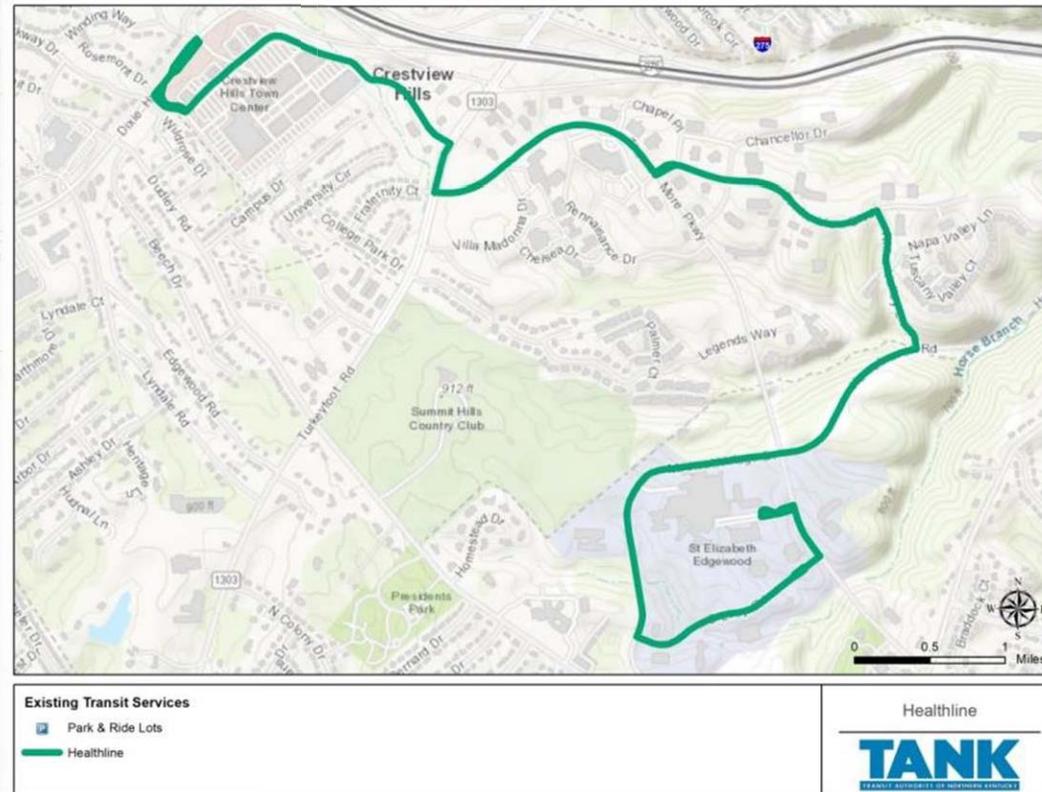
- Park & Ride Lots
- Route 16

Route 16 - West Newport

# Route 33 – Thomas More Pkwy / Crestview Hills



## Healthline

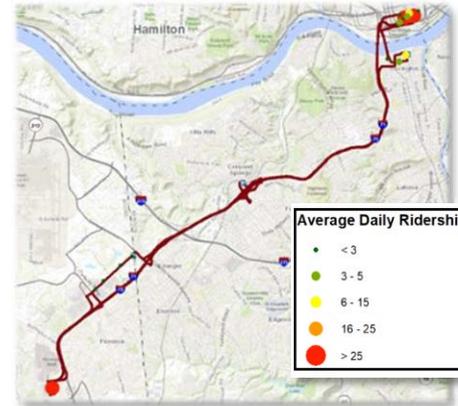
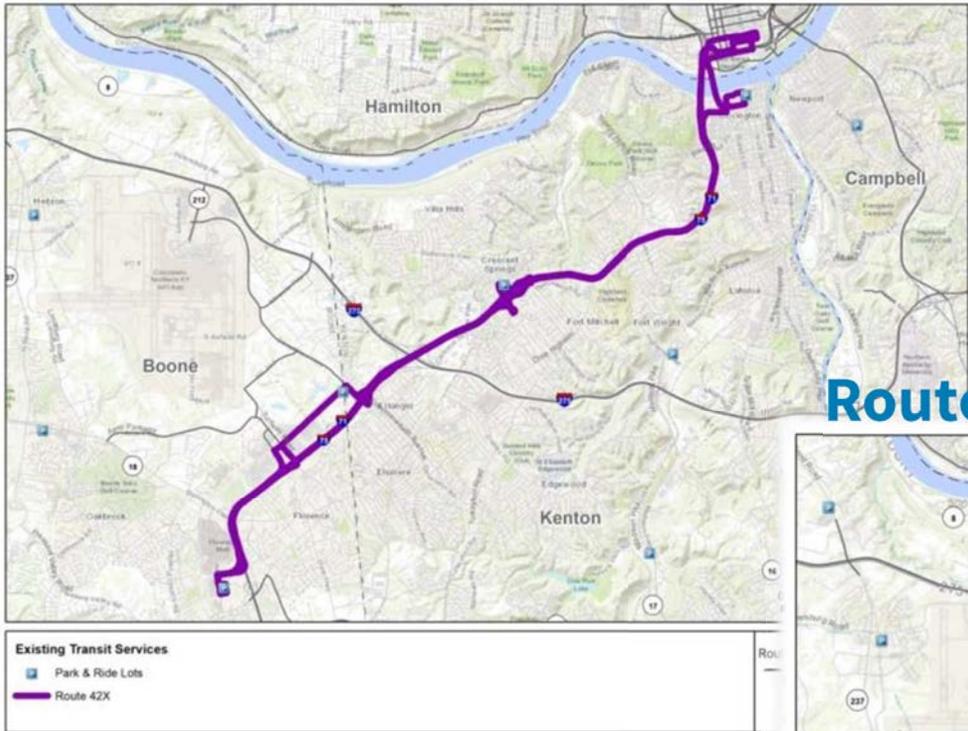


# TANK Jobs Express

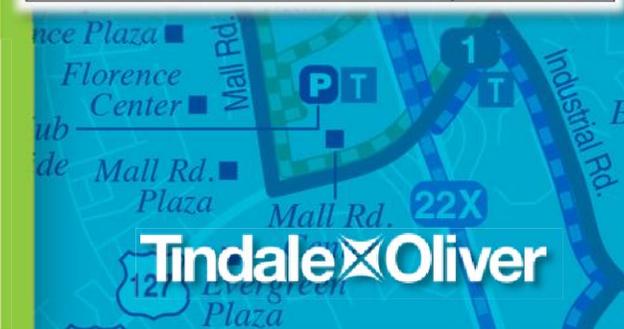
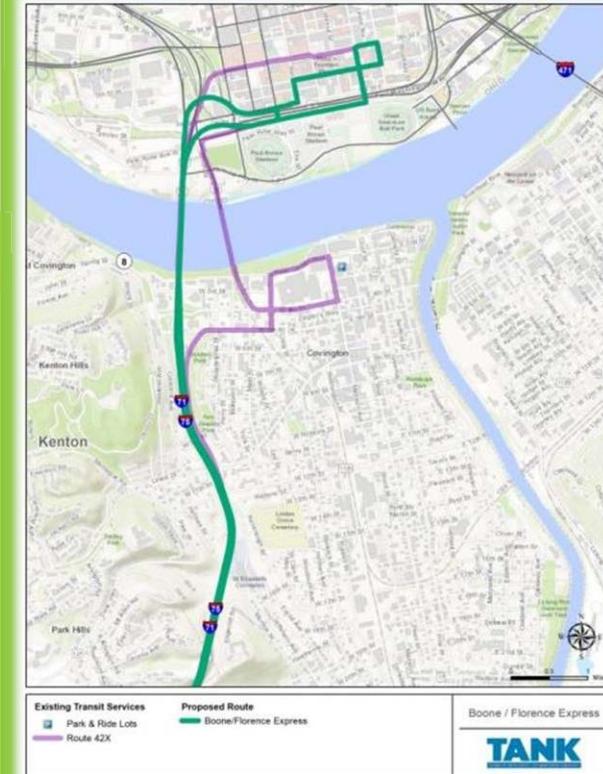
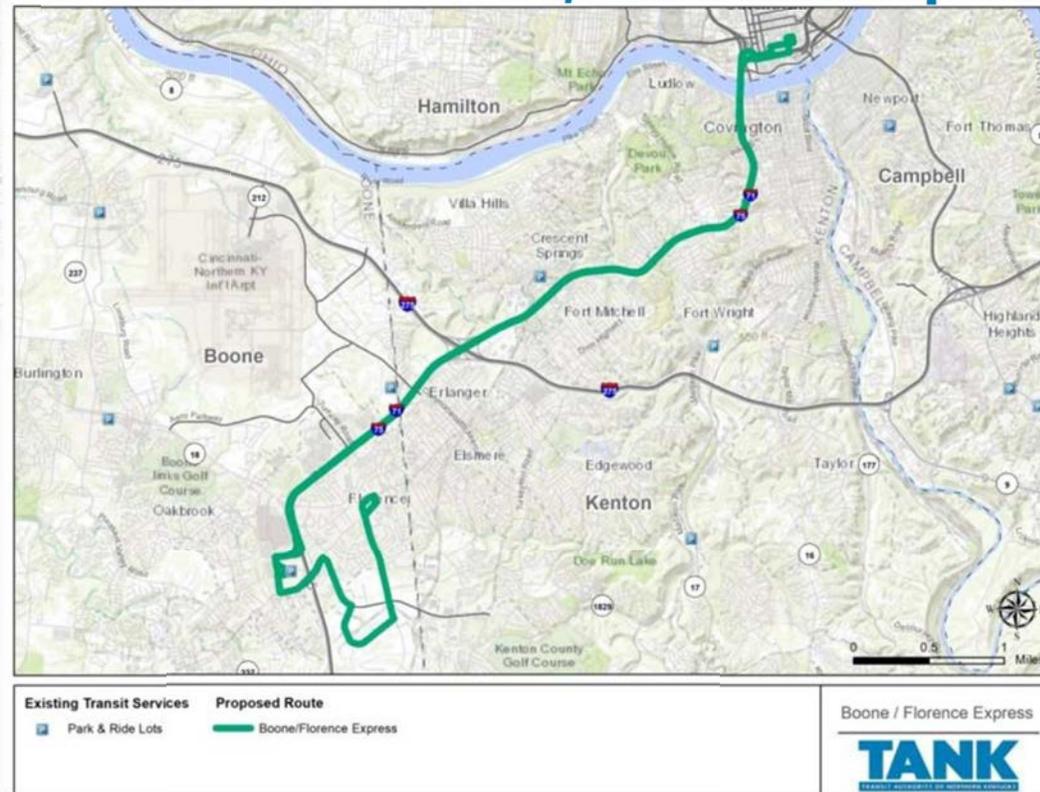
- Routes include:
  - Route 42X – Boone/Florence Express
  - Route 39X – Petersburg Rd/South Hebron Express
  - Route 40X – Worldwide Blvd/North Hebron Express



# Route 42X - Boone / Florence Express



# Route 42X - Boone / Florence Express

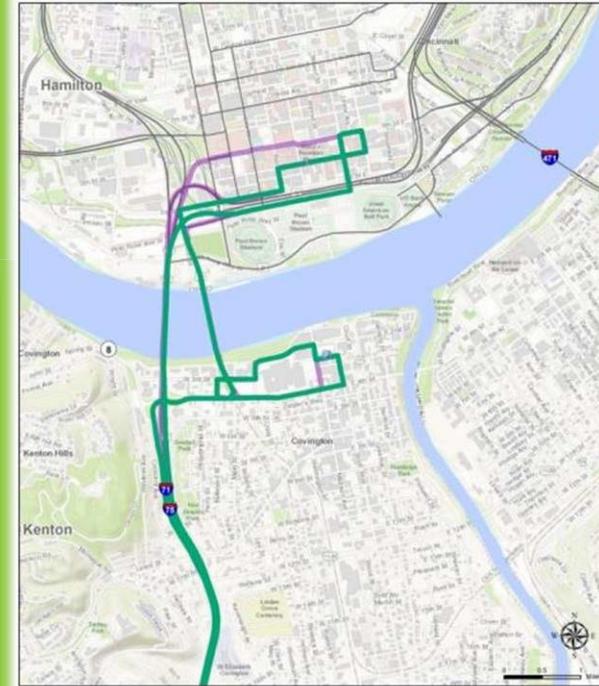
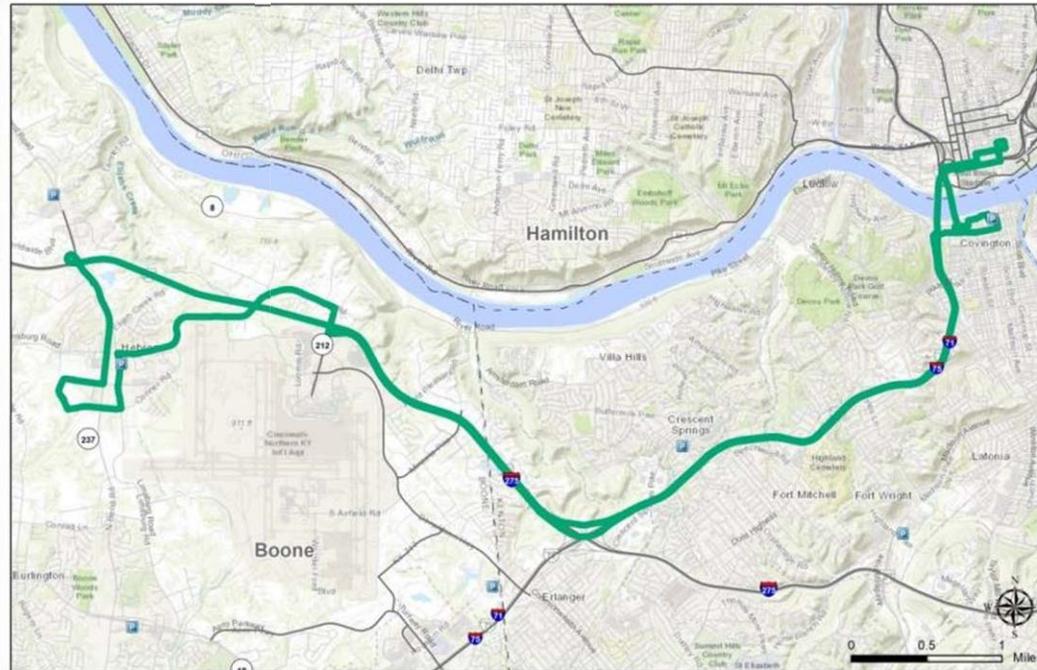
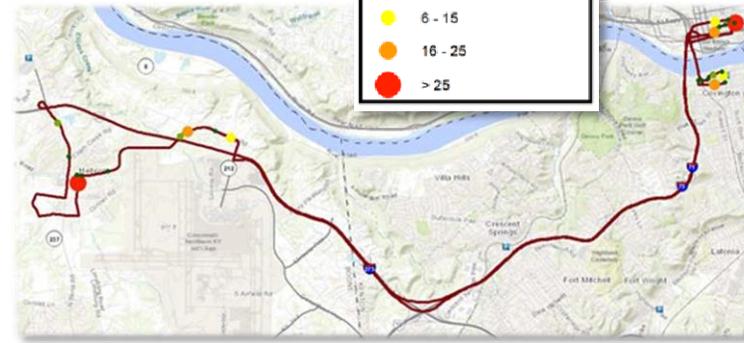
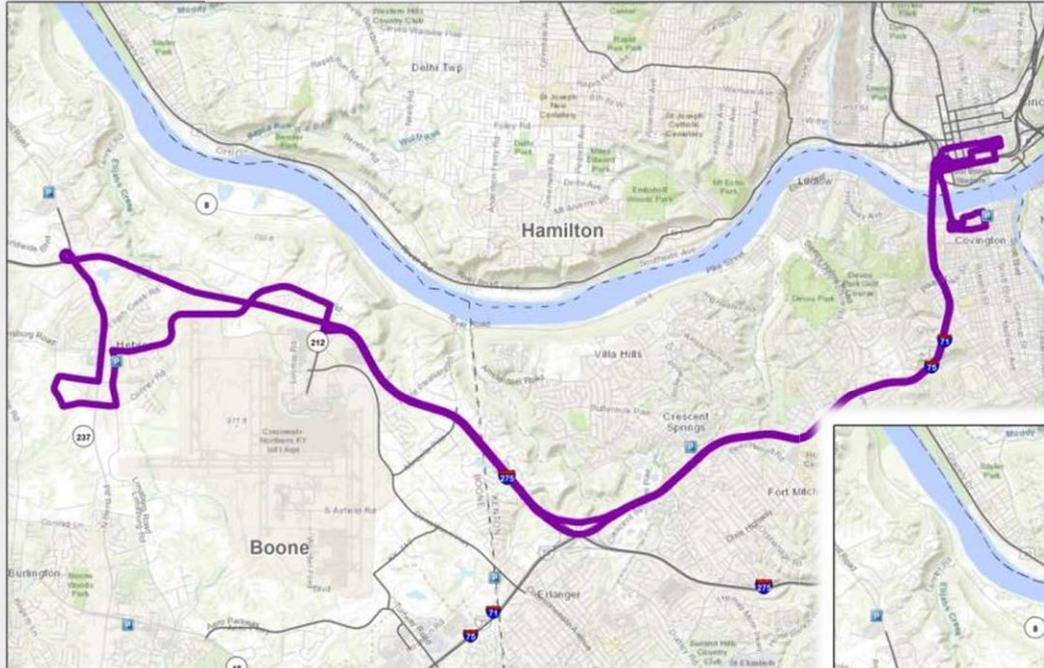


# Route 39X – Petersburg Rd / South Hebron Express

# TANK

TRANSIT AUTHORITY OF NORTHERN KENTUCKY

Average Daily Ridership



Existing Transit Services

- Park & Ride Lots
- Route 39X

Existing Transit Services      Proposed Route  
 Park & Ride Lots      Route 39X  
 Route 39X - Petersburg Rd / South Hebron Express

Existing Transit Services      Proposed Route  
 Park & Ride Lots      Route 39X

Route 39X - Petersburg Rd / South Hebron Express

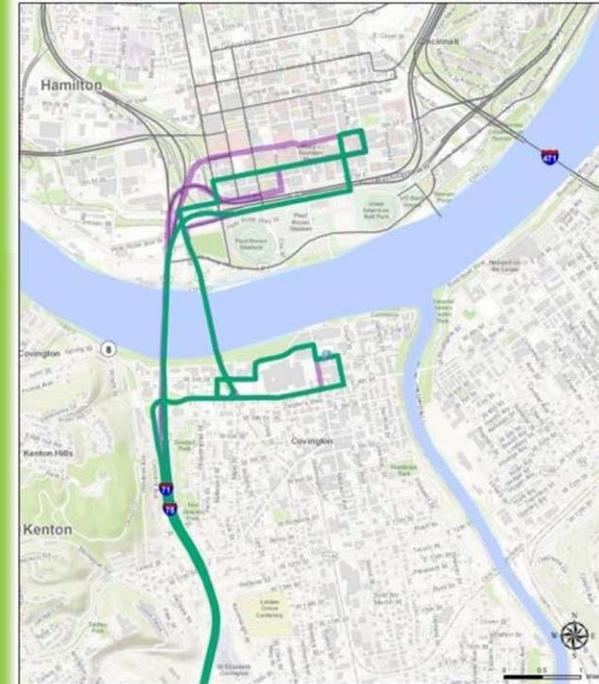
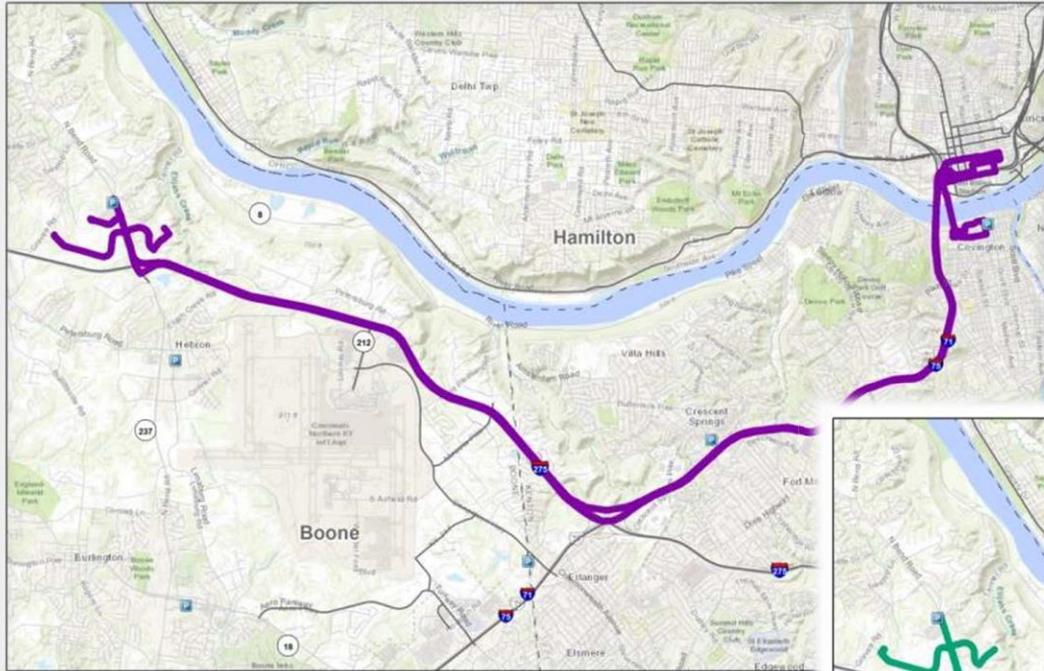
**TANK**  
 TRANSIT AUTHORITY OF NORTHERN KENTUCKY



# Route 40X – Worldwide Blvd / North Hebron Express

# TANK

TRANSIT AUTHORITY OF NORTHERN KENTUCKY



Existing Transit Services  
 Park & Ride Lots  
 Route 40X

Proposed Route  
 Route 40X

Route 40X - Worldwide Blvd / North Hebron Express

**TANK**

Existing Transit Services  
 Park & Ride Lots

Proposed Route  
 Route 40X

Route 40X - Worldwide Blvd / North Hebron Express

**TANK**

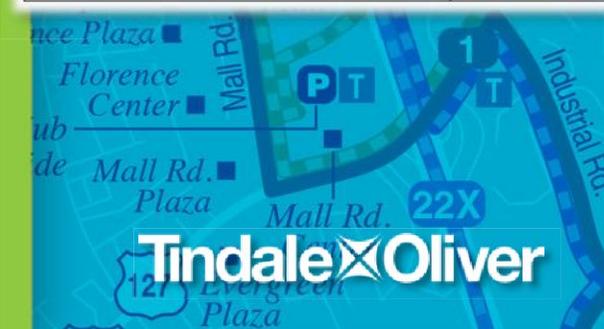
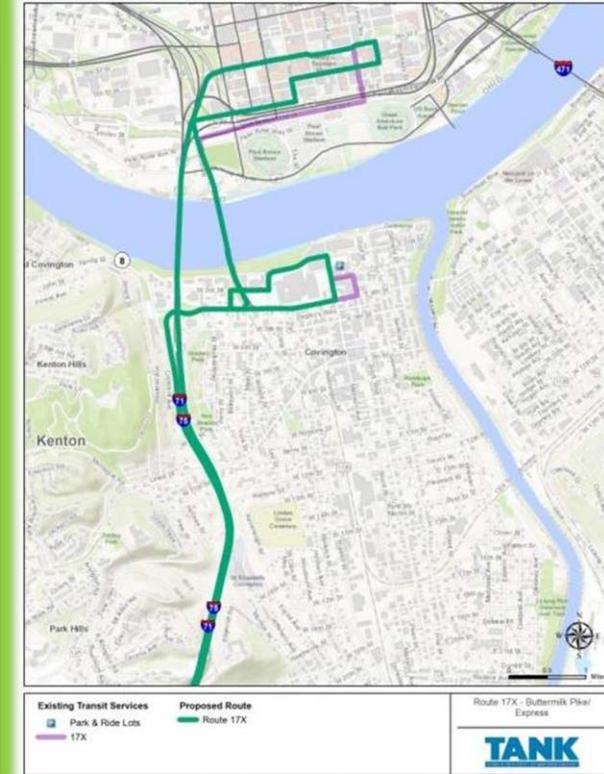
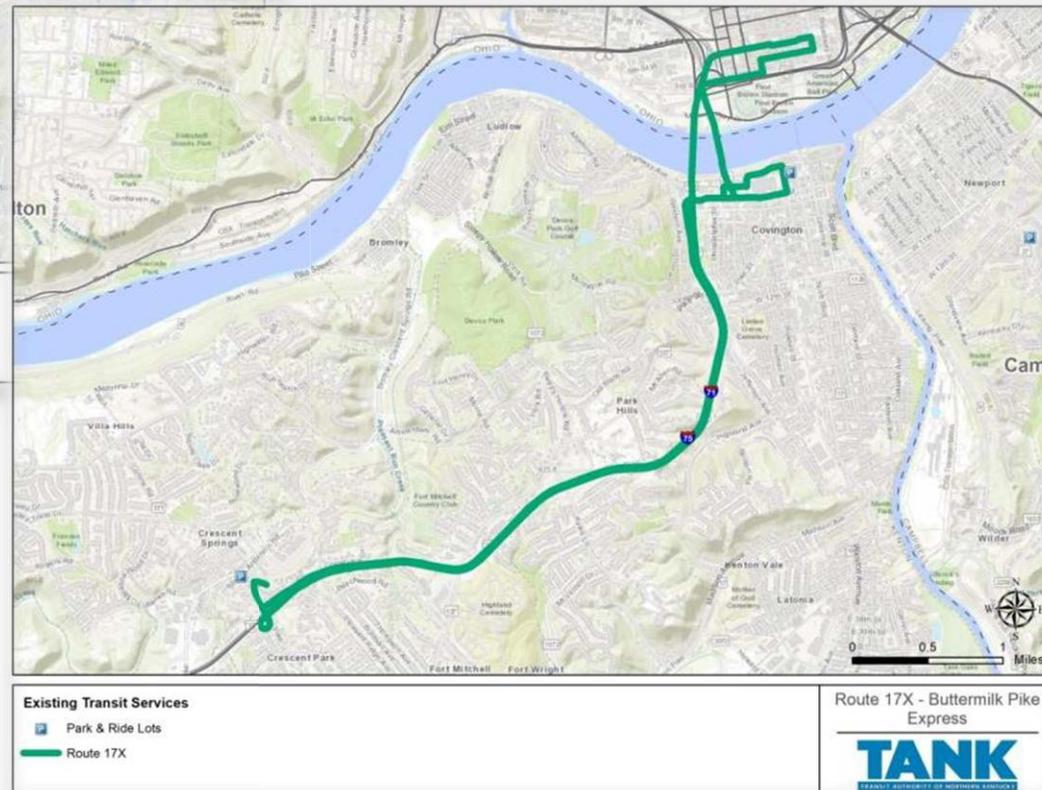
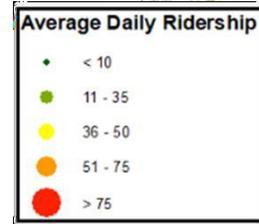
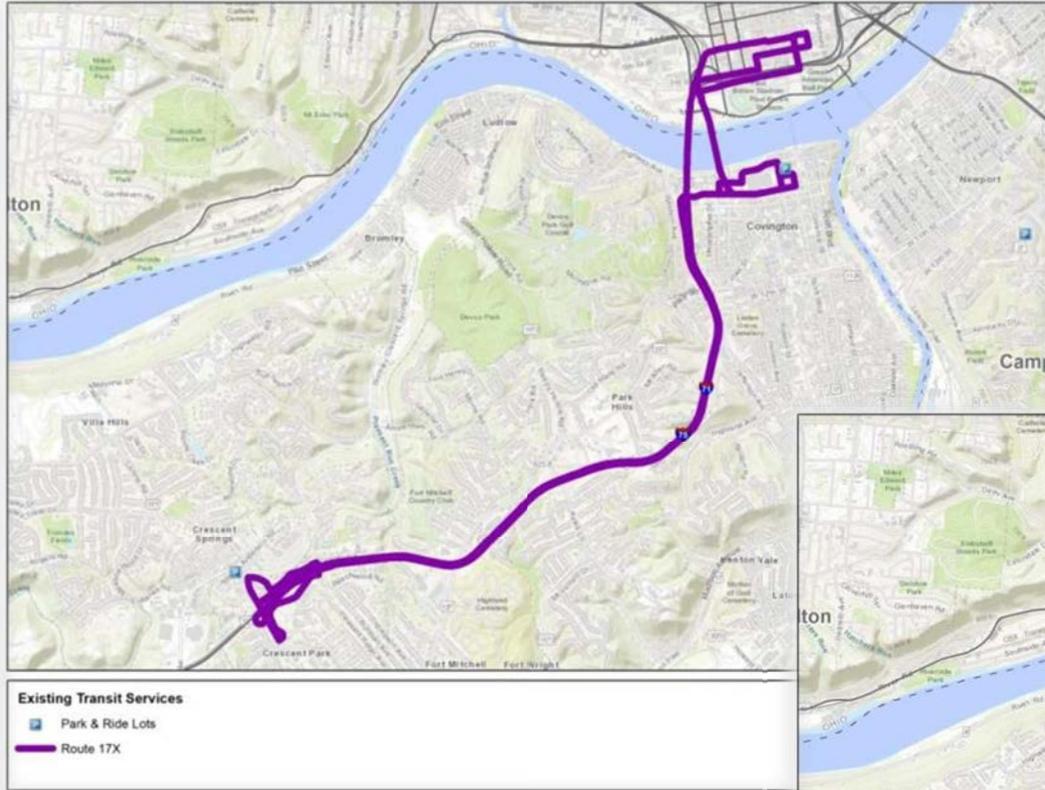


# TANK Commute Express

- Routes include:
  - Route 17X – Buttermilk Pike Express
  - Route 22X – Mt. Zion Express
  - Route 25X – Campbell/Alexandria
  - Route 30X – Kenton/Ft. Wright
  - Route 32X – Boone/Burlington



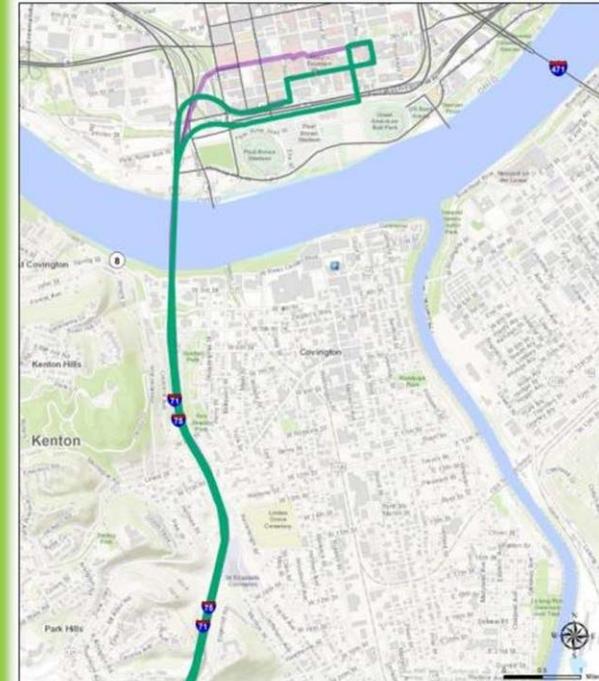
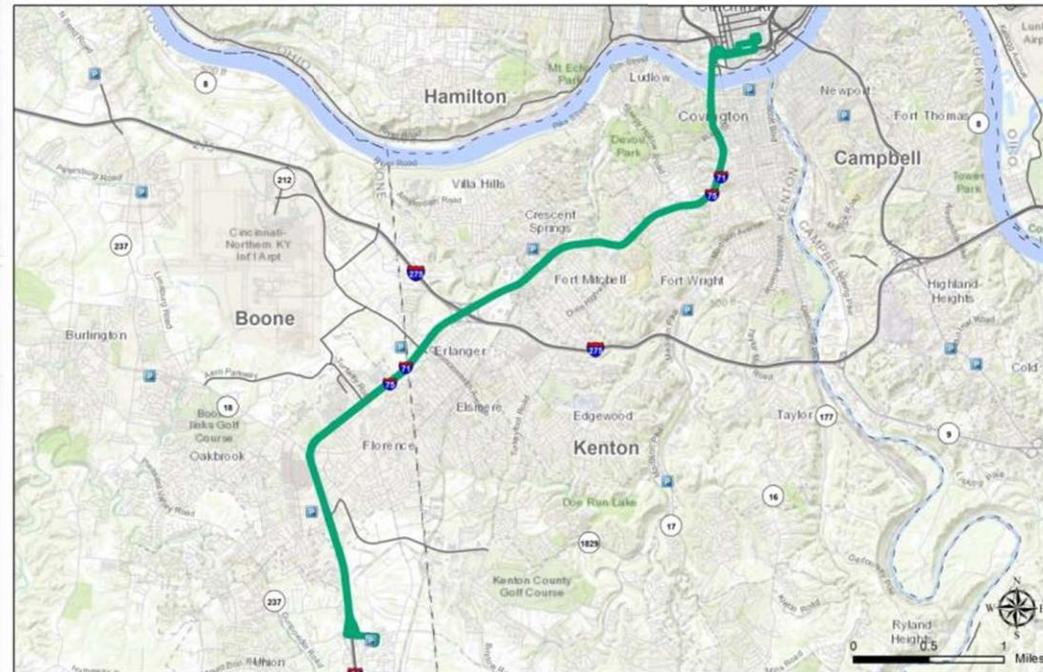
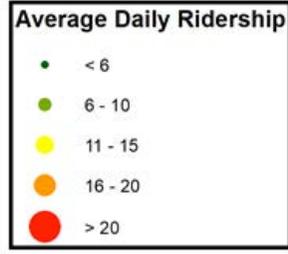
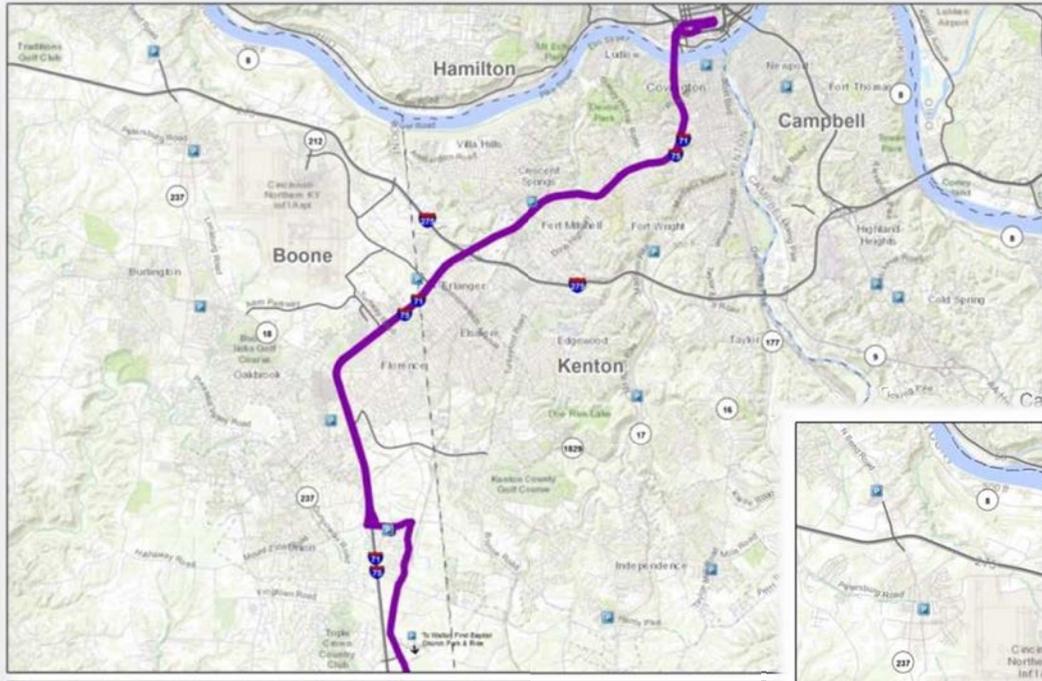
# Route 17X – Buttermilk Pike Express



# Route 22X – Mt. Zion Express

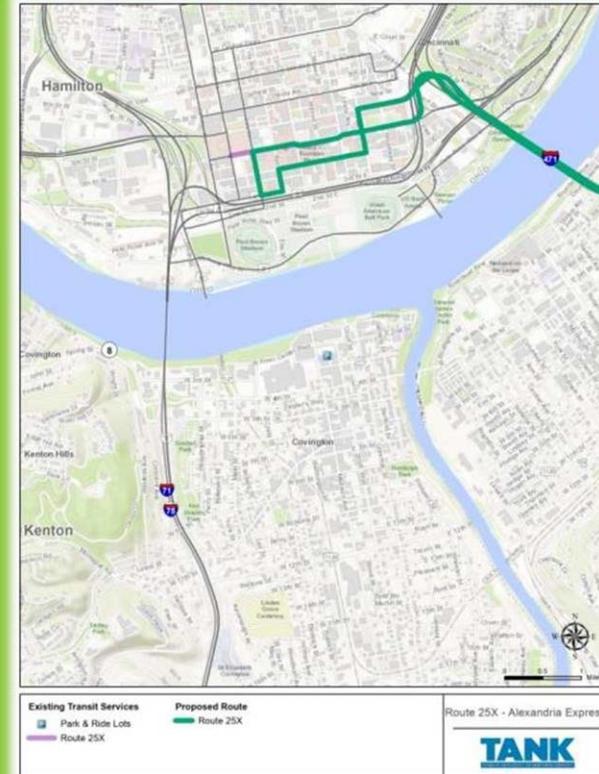
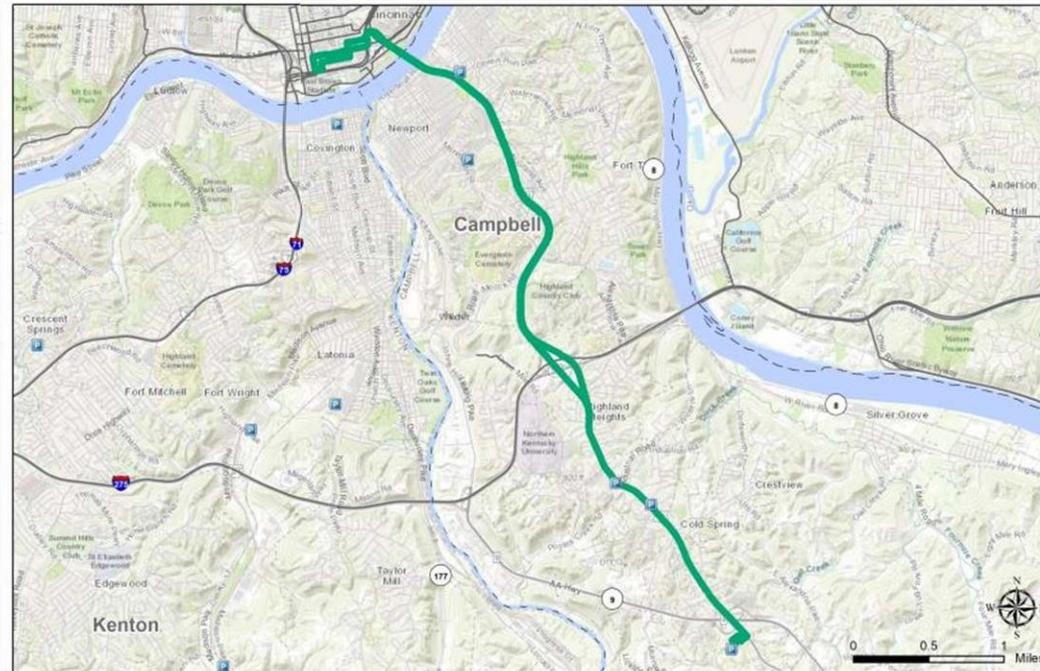
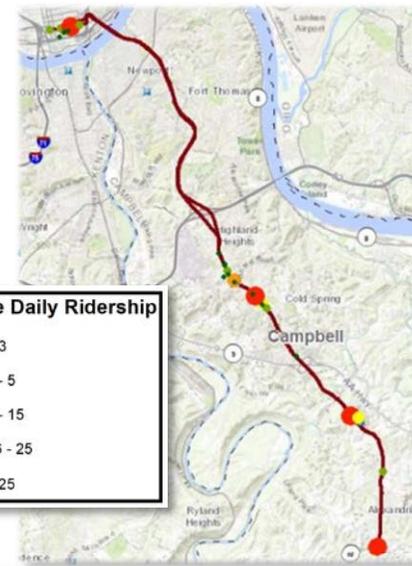
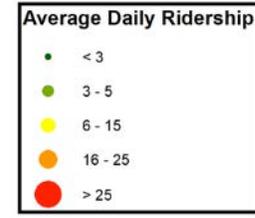
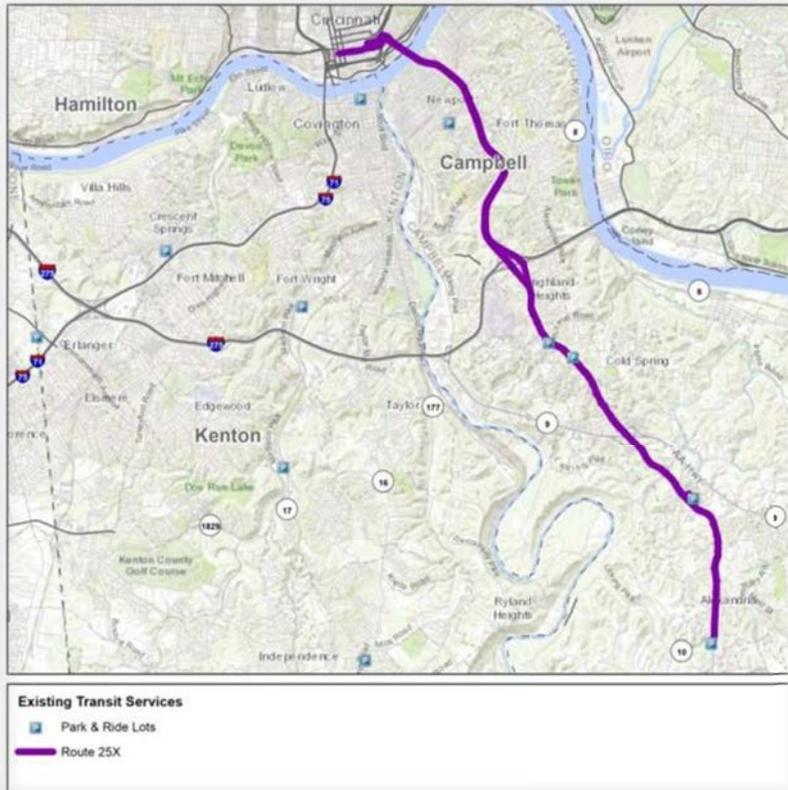
# TANK

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# Route 25X – Alexandria Express

**TANK**  
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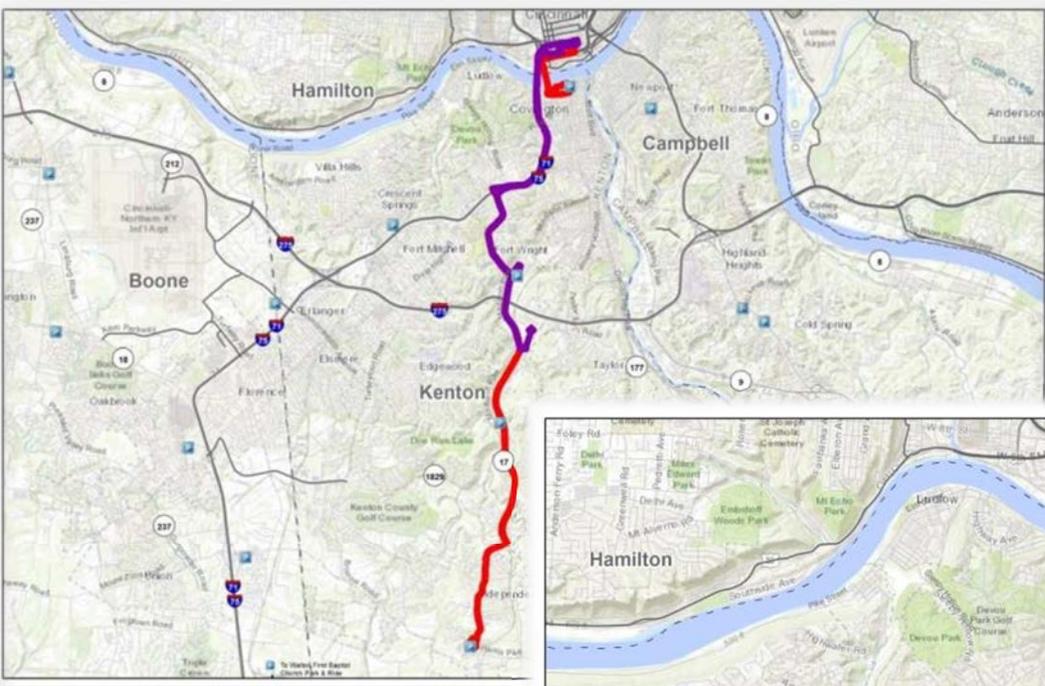


Recommend a park-and-ride at Meijer at US 27 and AA Hwy.



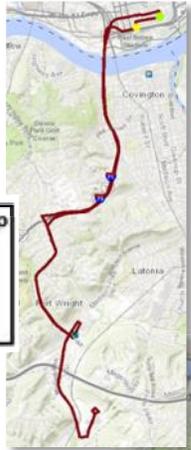
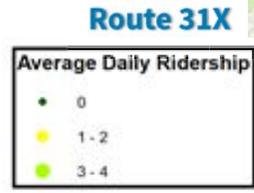
# Route 30X – Fort Wright / Independence Express

## Route 31X – Rolling Hills Dr Express



**Existing Transit Services**

- Park & Ride Lots
- Route 30X
- Route 31X



**Route 30X**



**Existing Transit Services**

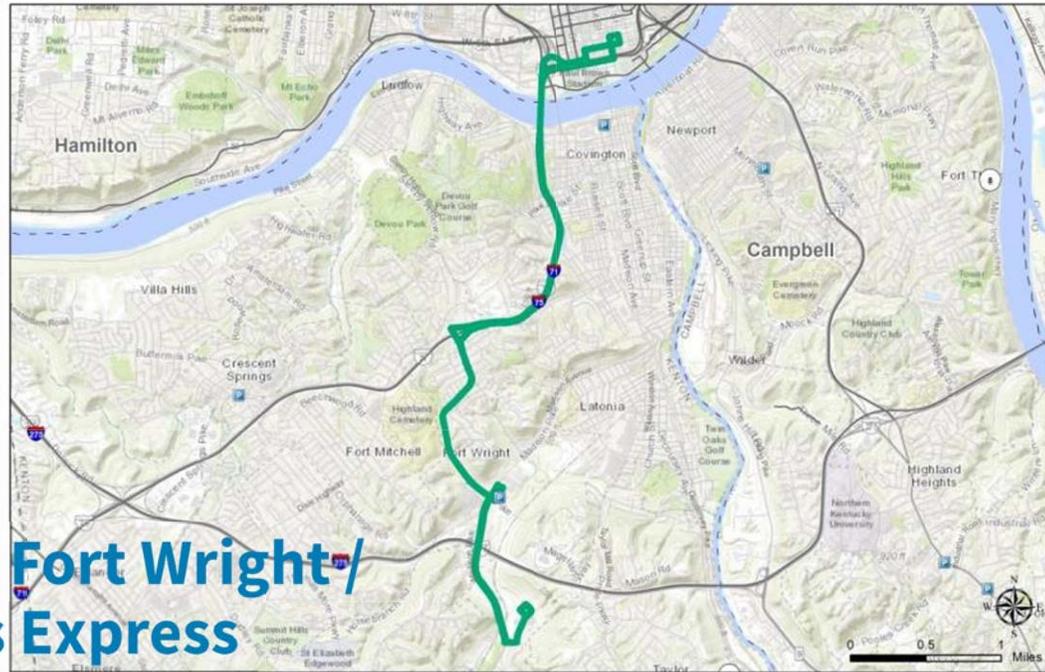
- Park & Ride Lots
- Route 30X
- Route 31X

**Proposed Route**

- Route 30X

Route 30X - Fort Wright / Rolling Hills Express

# Route 30X – Fort Wright / Rolling Hills Express



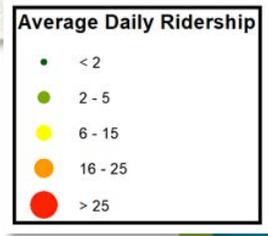
**Existing Transit Services**

- Park & Ride Lots

**Proposed Route**

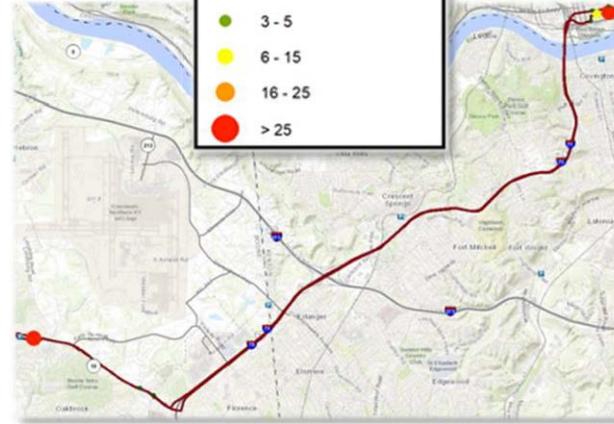
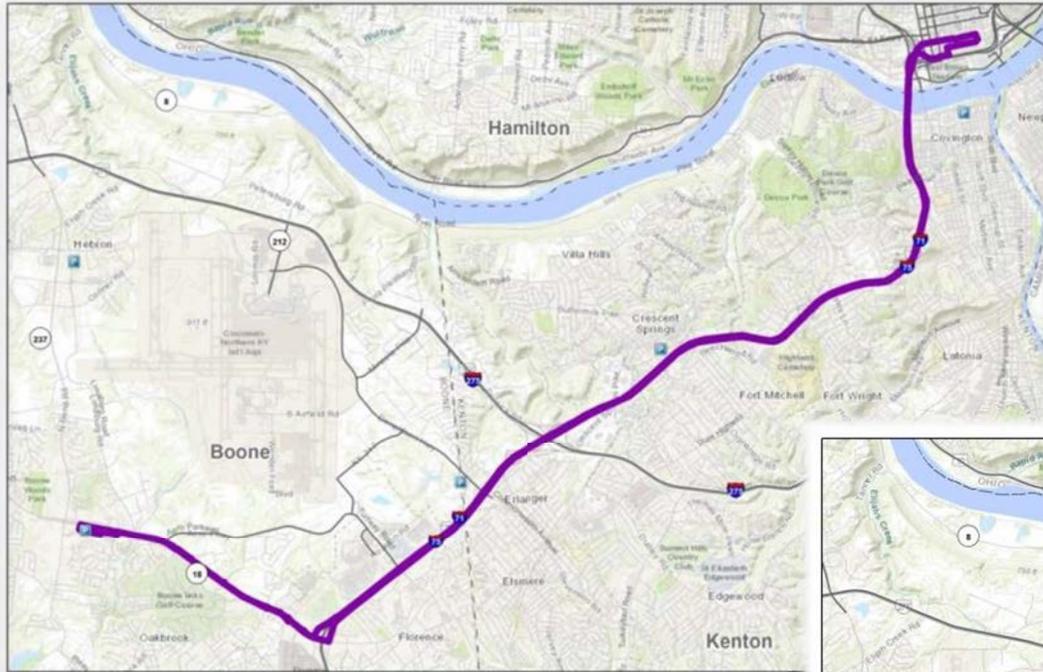
- Route 30X

Route 30X - Fort Wright / Rolling Hills Express



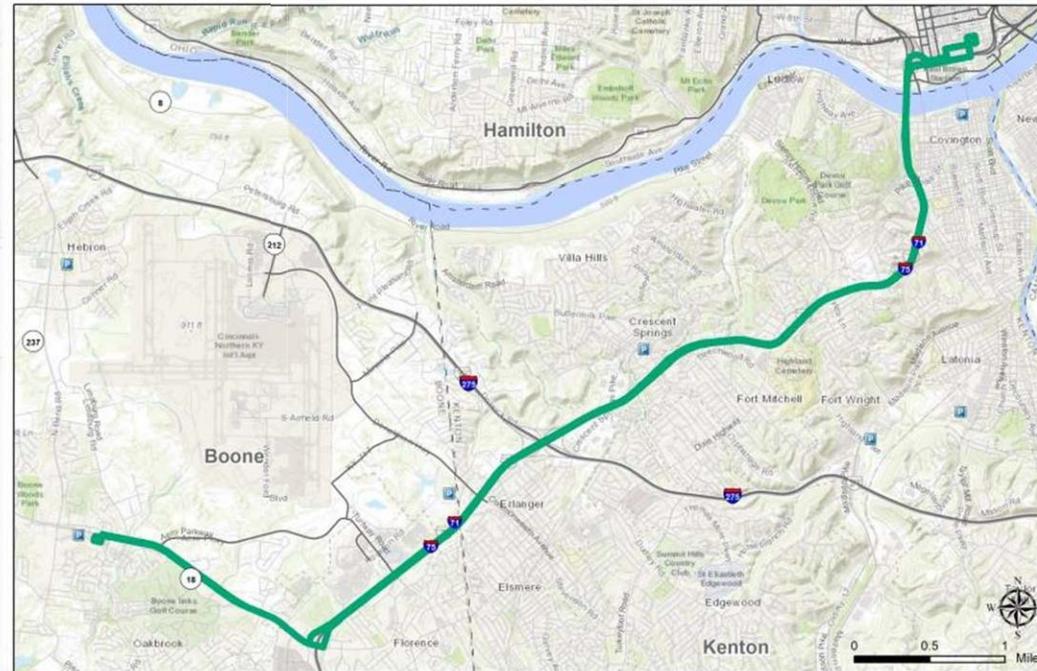
# Route 32X – Burlington Express

### Average Daily Ridership



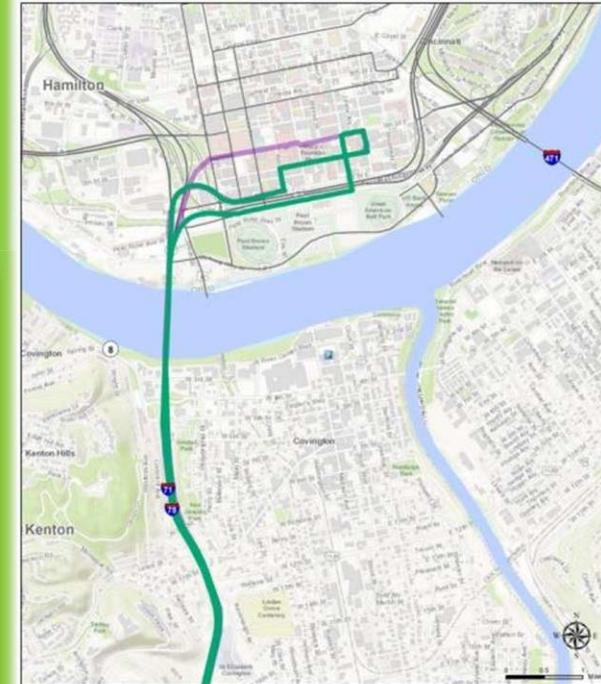
### Existing Transit Services

- Park & Ride Lots
- Route 32X



- Existing Transit Services
- Proposed Route
- Park & Ride Lots
- Route 32X

Route 32X - Burlington Express



- Existing Transit Services
- Proposed Route
- Park & Ride Lots
- Route 32X

Route 32X - Burlington Express



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# Routes Proposed for Elimination / Consolidation

## Considerations for Elimination/ Consolidation:

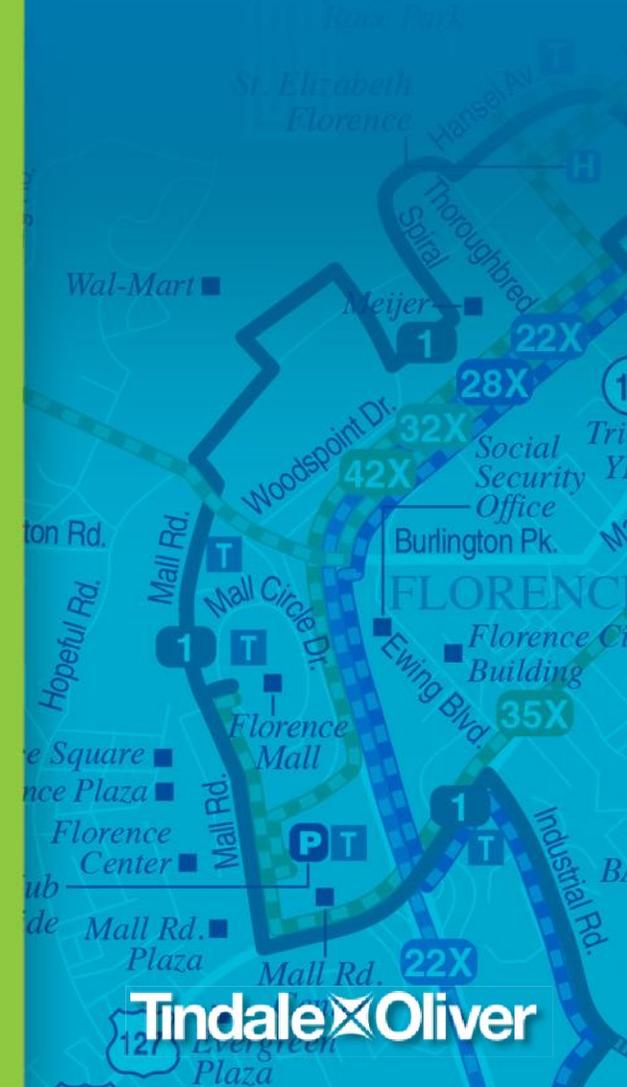
- Duplication of service
- Low ridership
- Below average on-time performance
- Meandering alignment
- Does not serve transit dependent areas

## Local Routes:

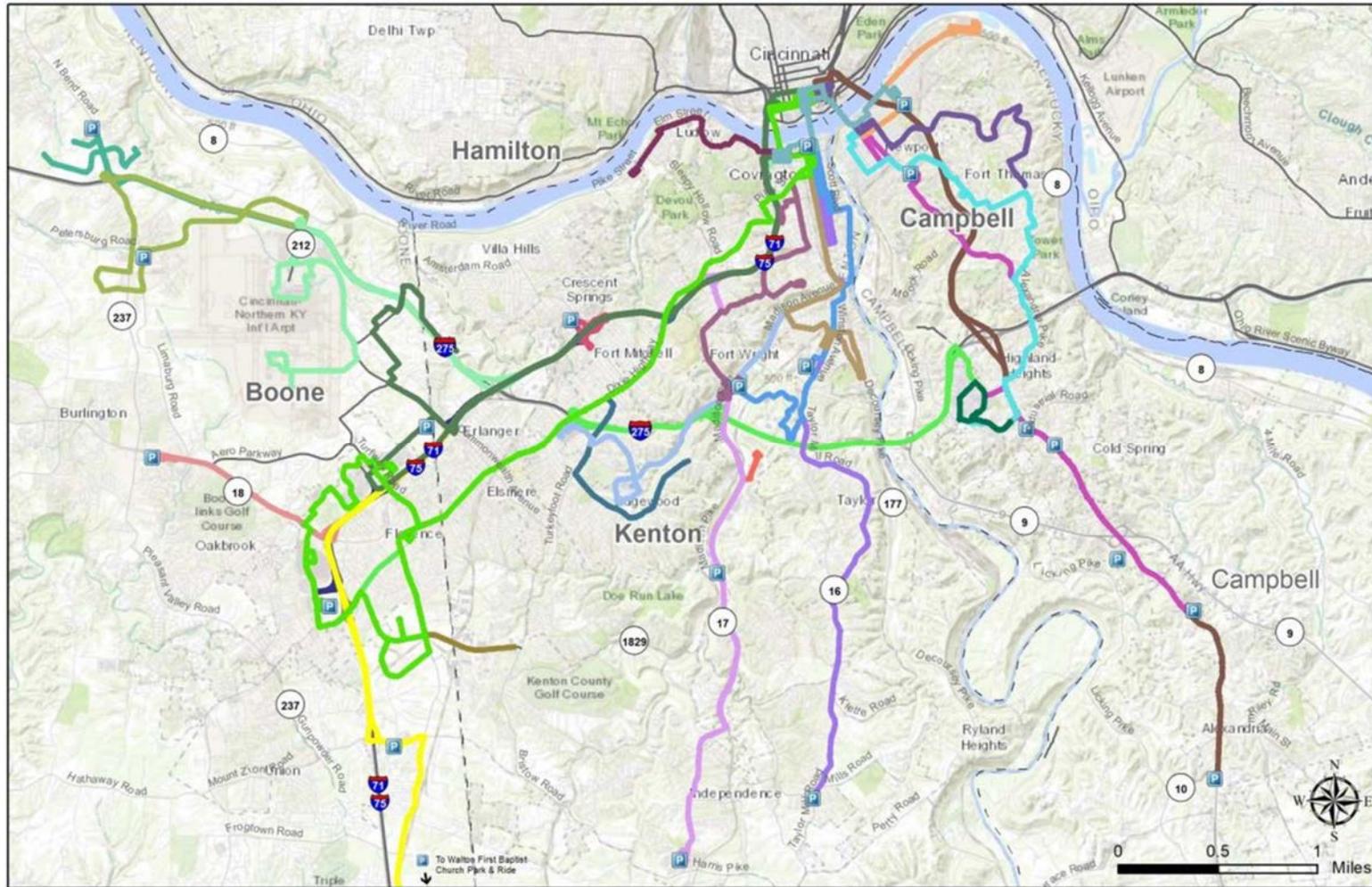
- Route 8 (see Route 7)
- Route 9 (see Route 7)
- Route 11 (use Newport Shopping Center P&R)
- Route 12 (see Southbank Shuttle)
- Route 33 (see Route 1/Healthline)

## Express Routes:

- **Route 35X**
- Route 18X (use Buttermilk P&R)
- Route 28X (see Boone/Florence Express)
- Route 31X (see Route 30X)

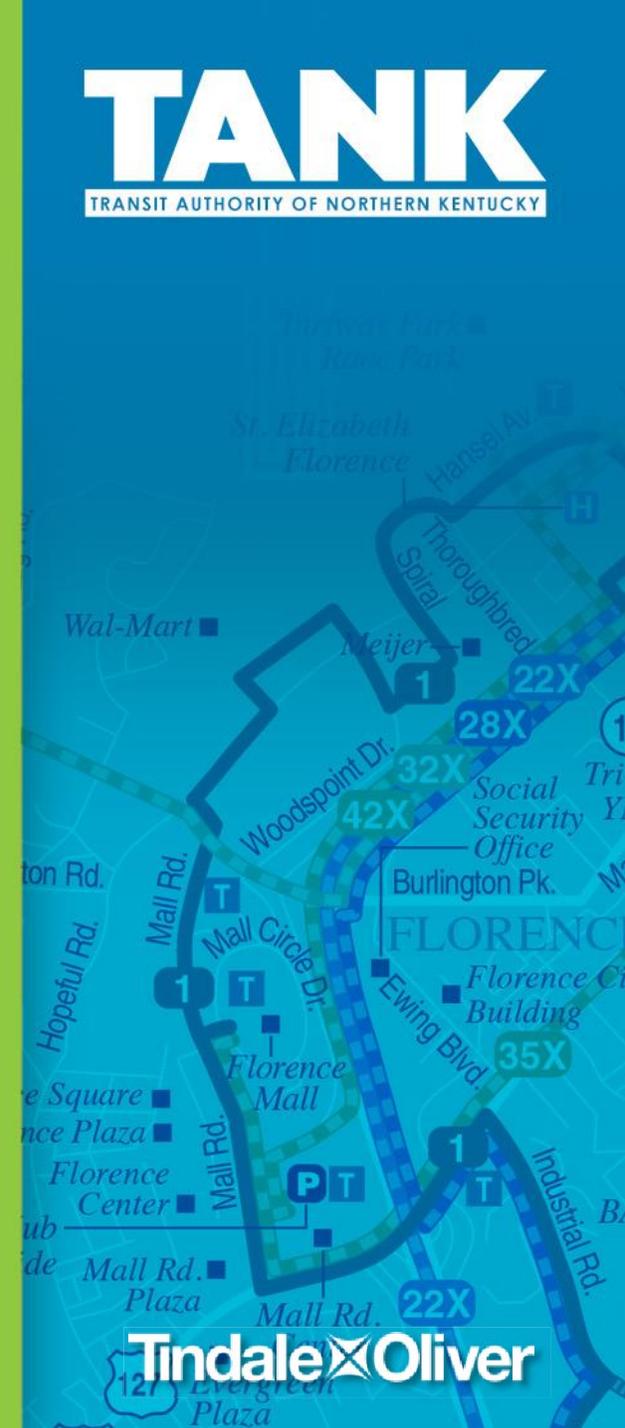


# Existing Transit Network

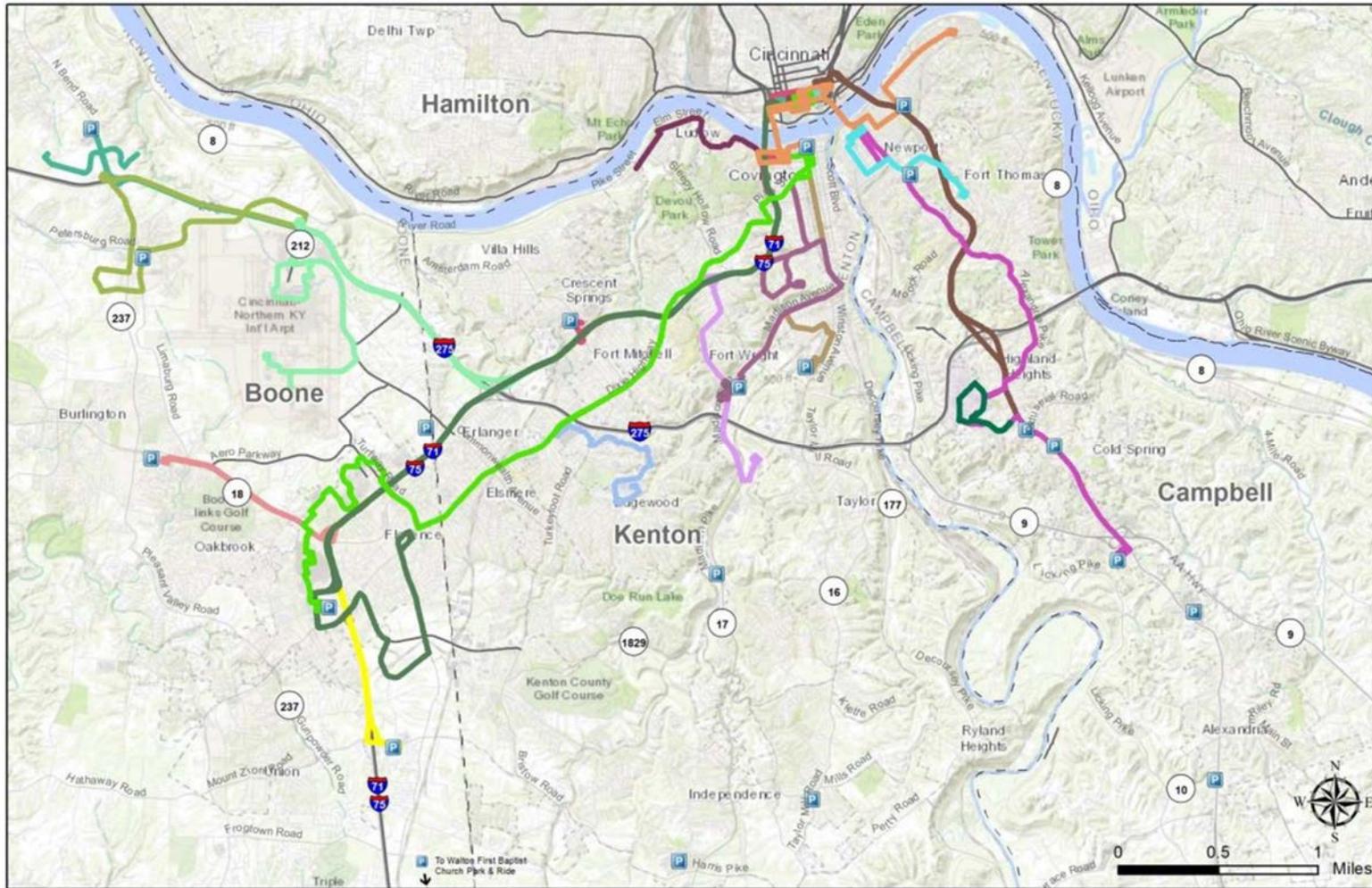


1	8	16	2X	25X	32X	42X
3	9	25	17X	28X	35X	NKU Shuttle
5	11	33	18X	30X	39X	Southbank Shuttle
7	12	1X	22X	31X	40X	Park & Ride Lots

Existing Routes



# Proposed 2020 Redesign Network



- |                  |          |           |           |            |                        |
|------------------|----------|-----------|-----------|------------|------------------------|
| Route 1          | Route 7  | Route 2X  | Route 25X | Route 39X  | Boone/Florence Express |
| Route 3          | Route 16 | Route 17X | Route 30X | Route 40X  | Southbank Shuttle      |
| Route 5          | Route 25 | Route 22X | Route 32X | Healthline | NKU Shuttle            |
| Park & Ride Lots |          |           |           |            |                        |

Proposed 2020 Redesign Network

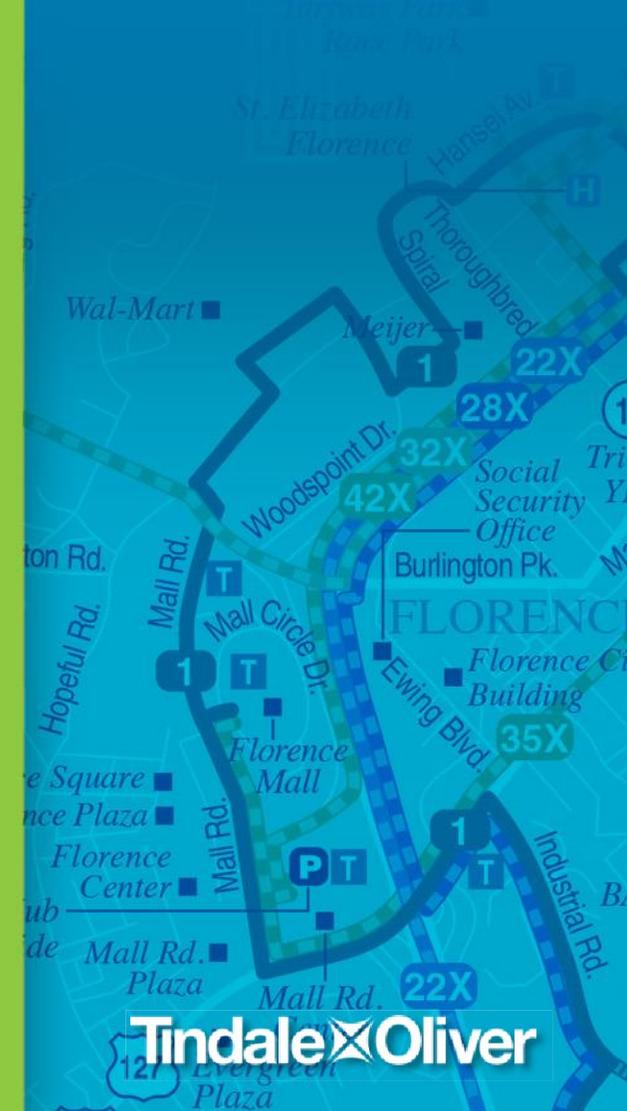
**TANK**  
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# Operating Characteristic Changes

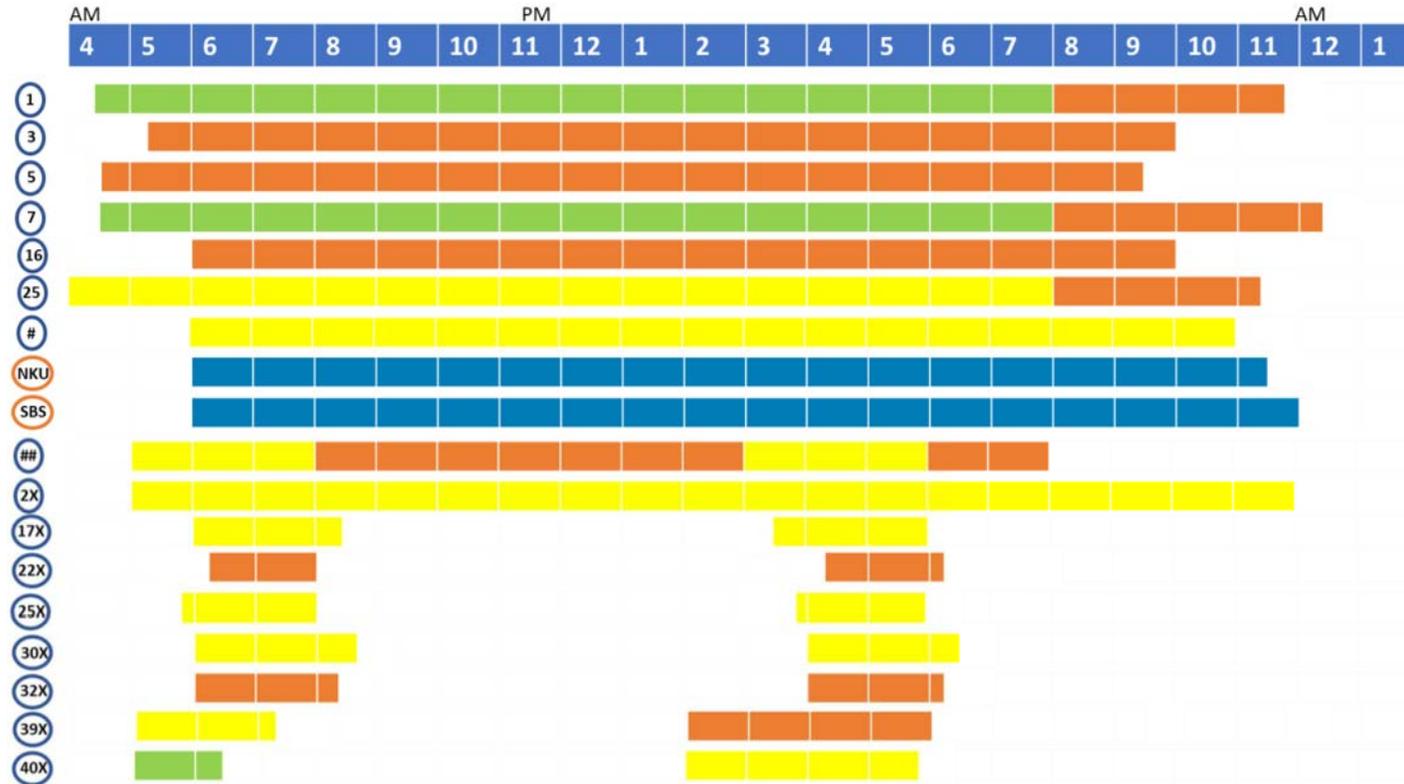
- Operating Characteristic Changes Include:

- Span of service
- Frequency
- Days of service

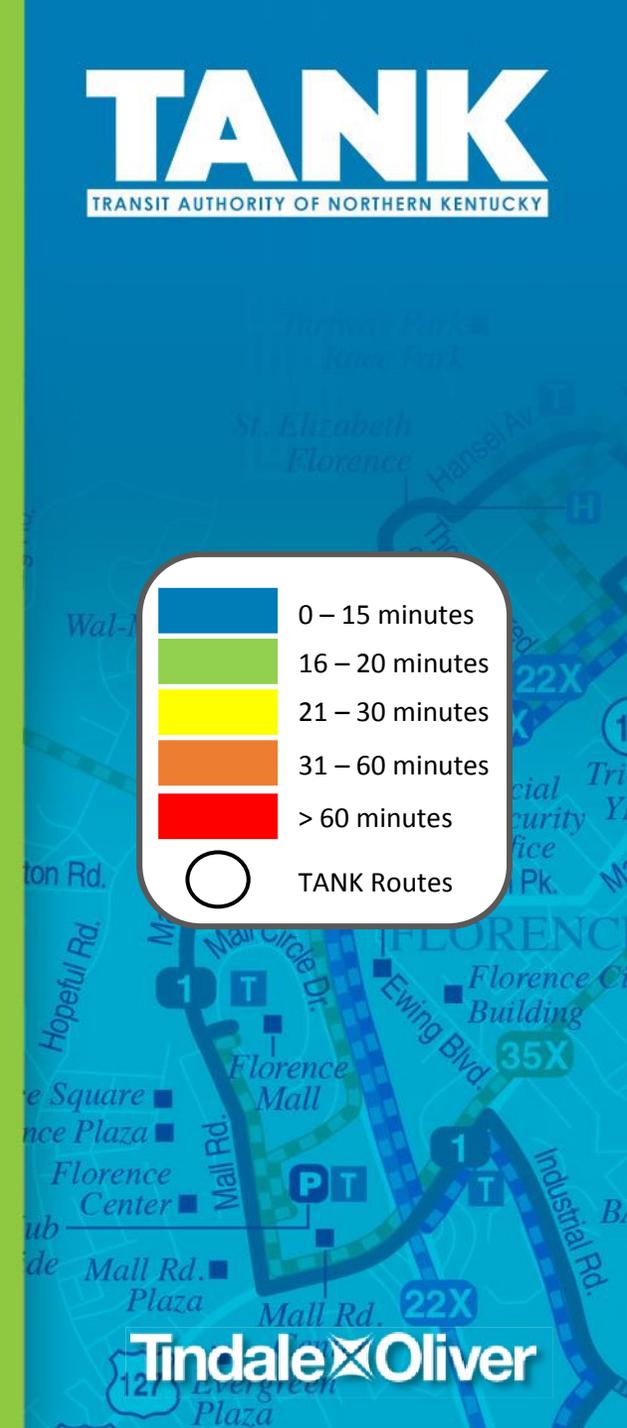




# Proposed Weekday Span/Frequency

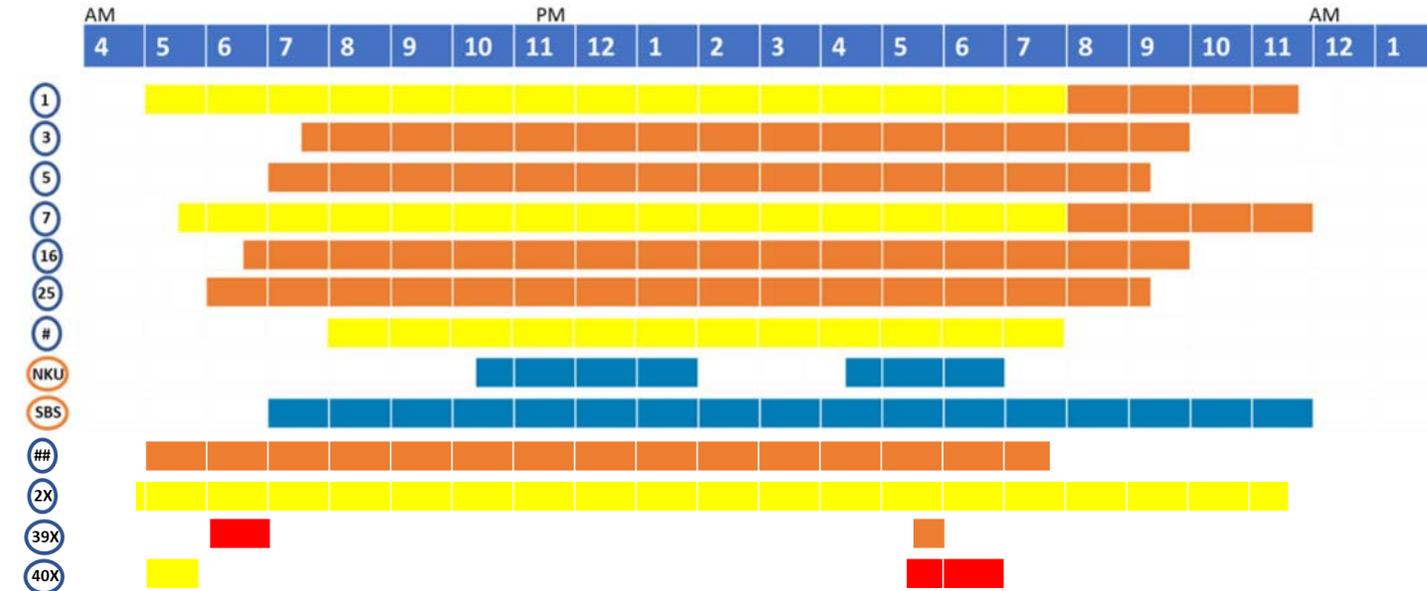


#: New local route - Healthline  
 ##: New express route - 42X Boone/Florence Express

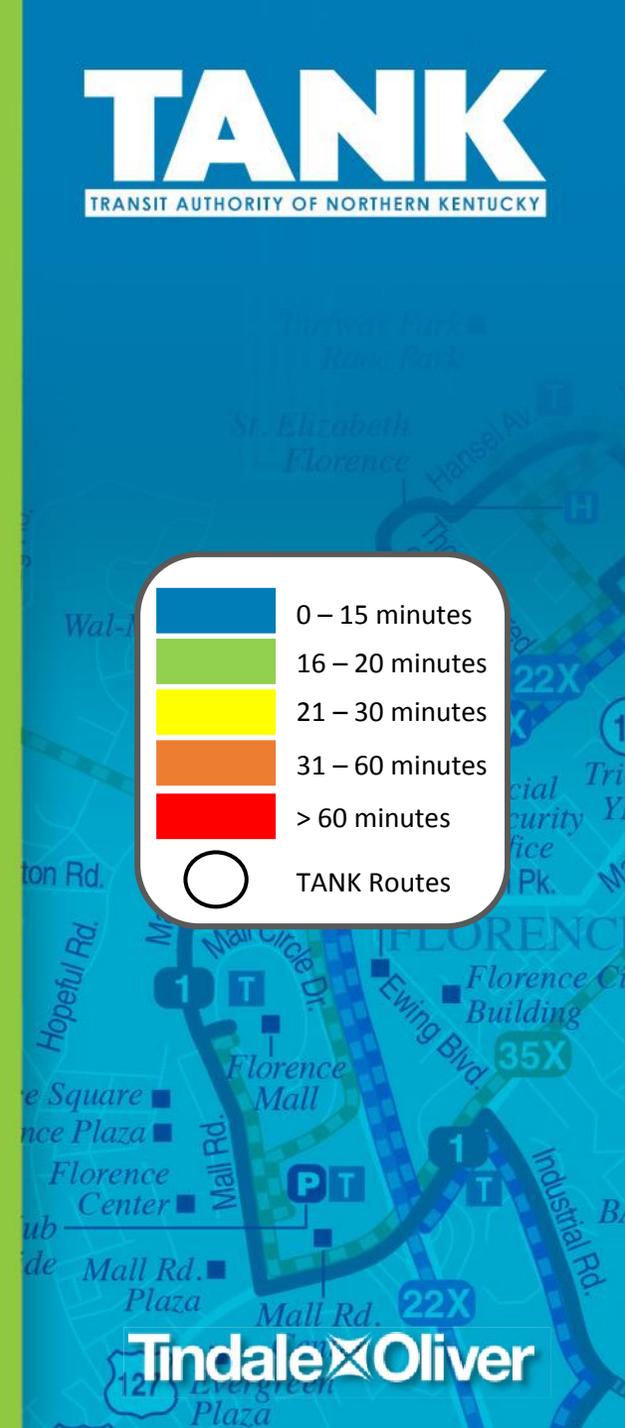




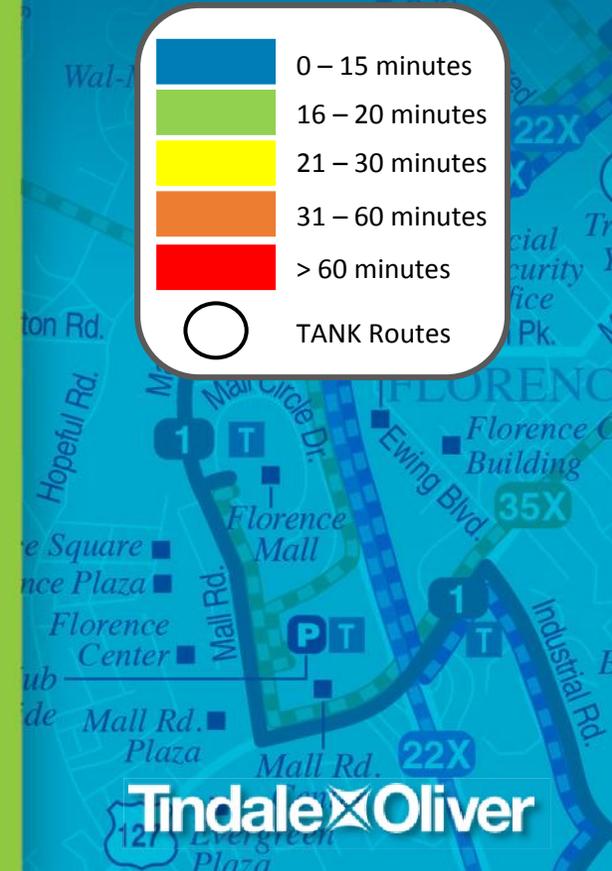
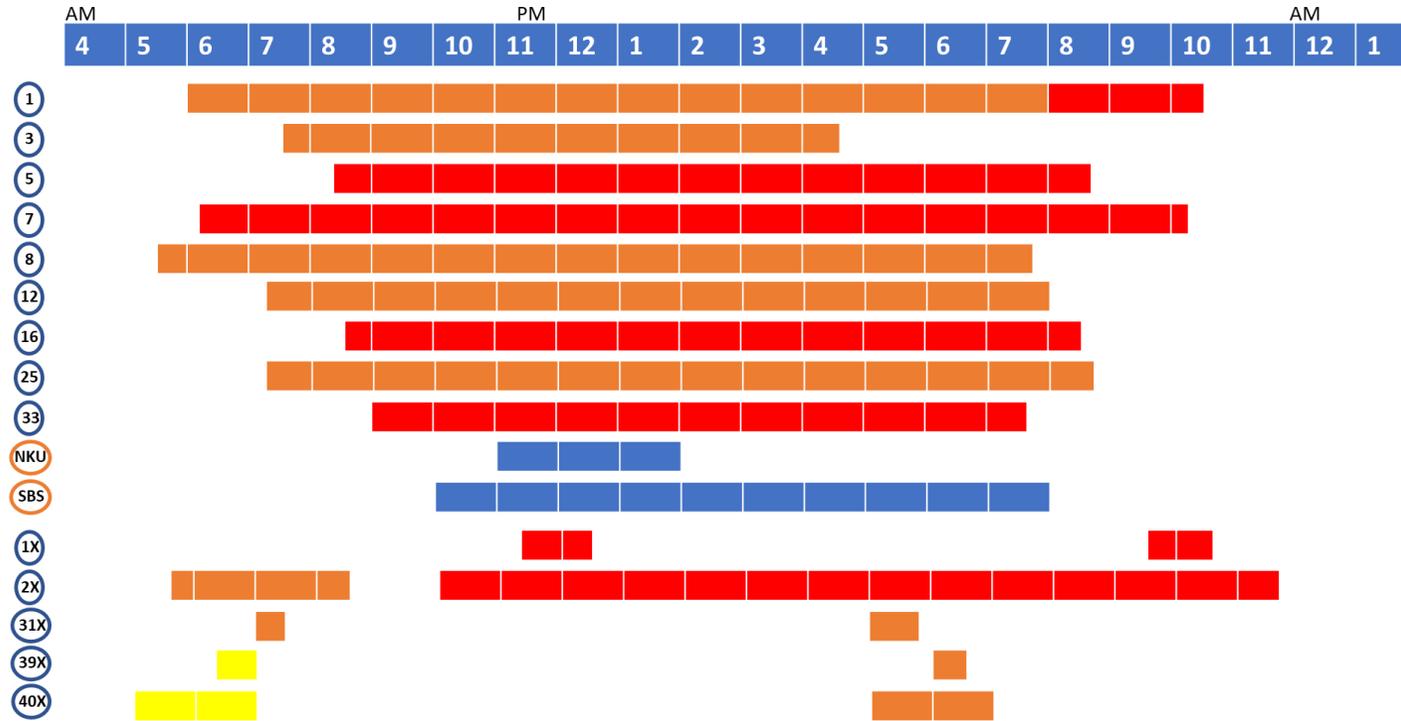
# Proposed Saturday Span/Frequency



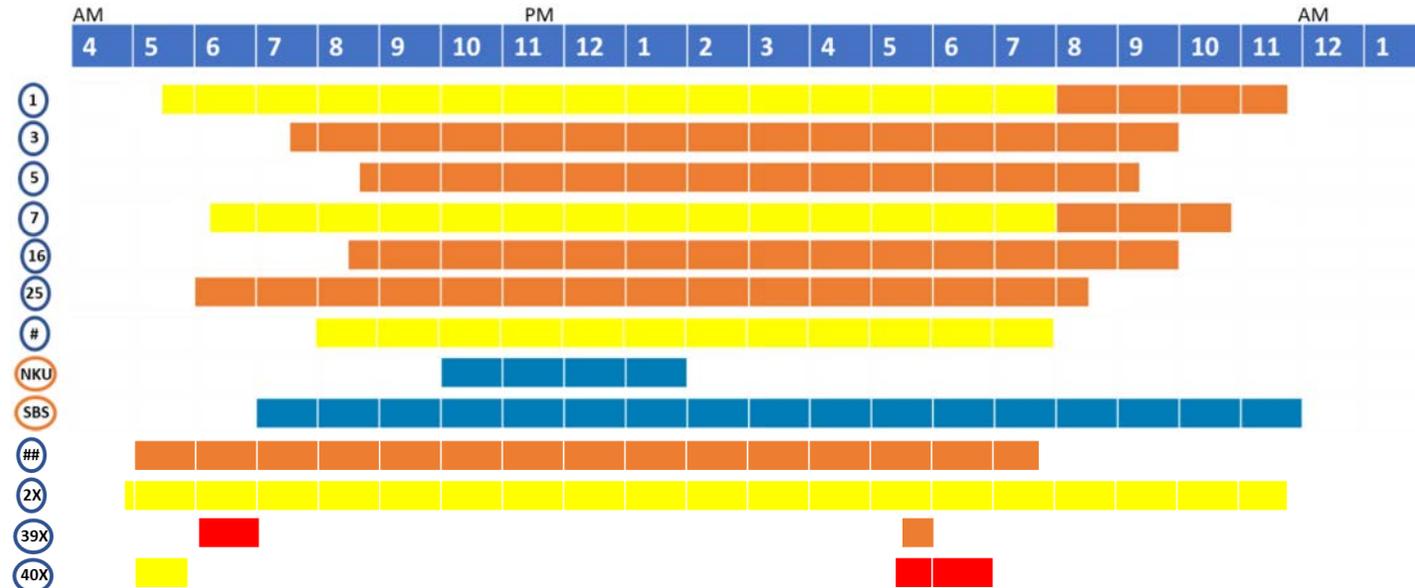
#: New local route - Healthline  
 ##: New express route - 42X Boone/Florence Express



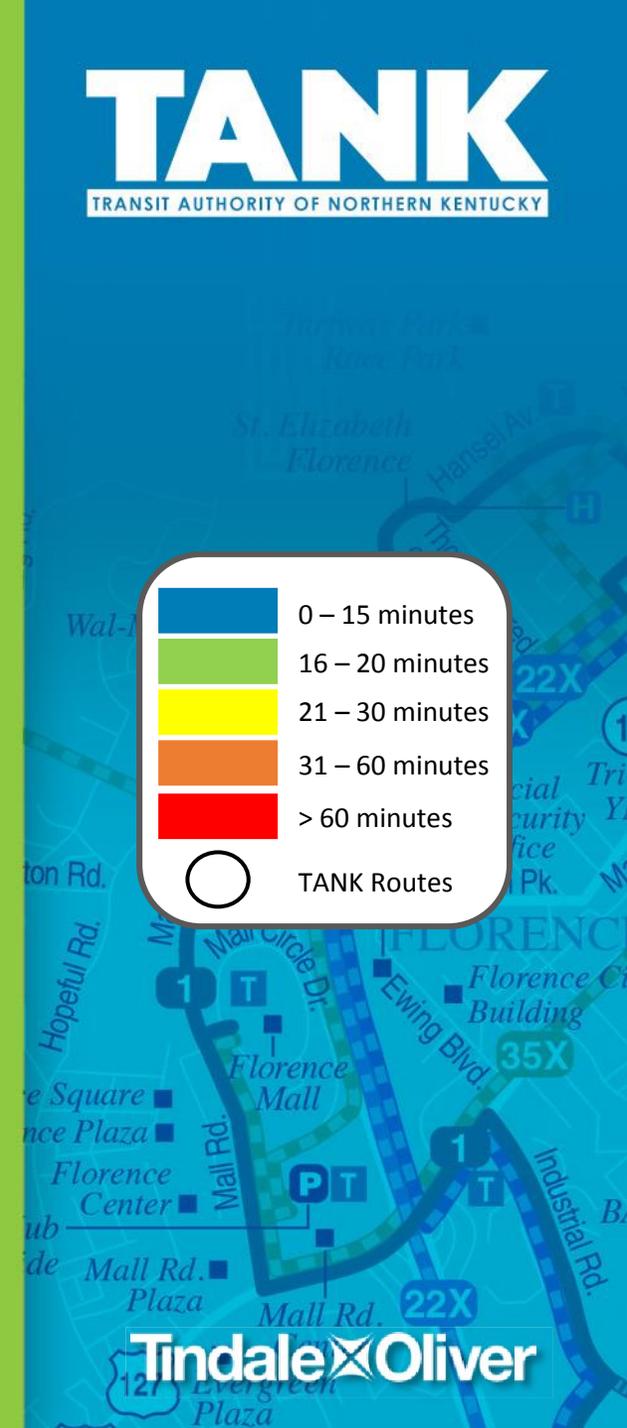
# Existing Sunday Span/Frequency



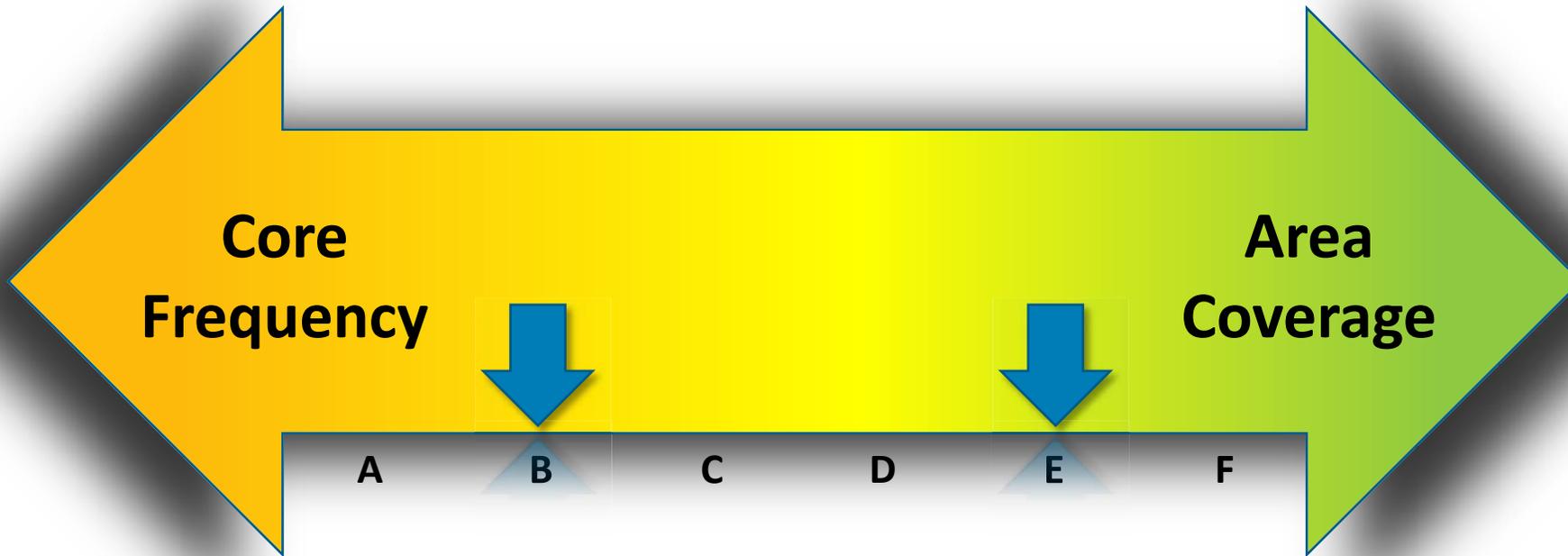
# Proposed Sunday Span/Frequency



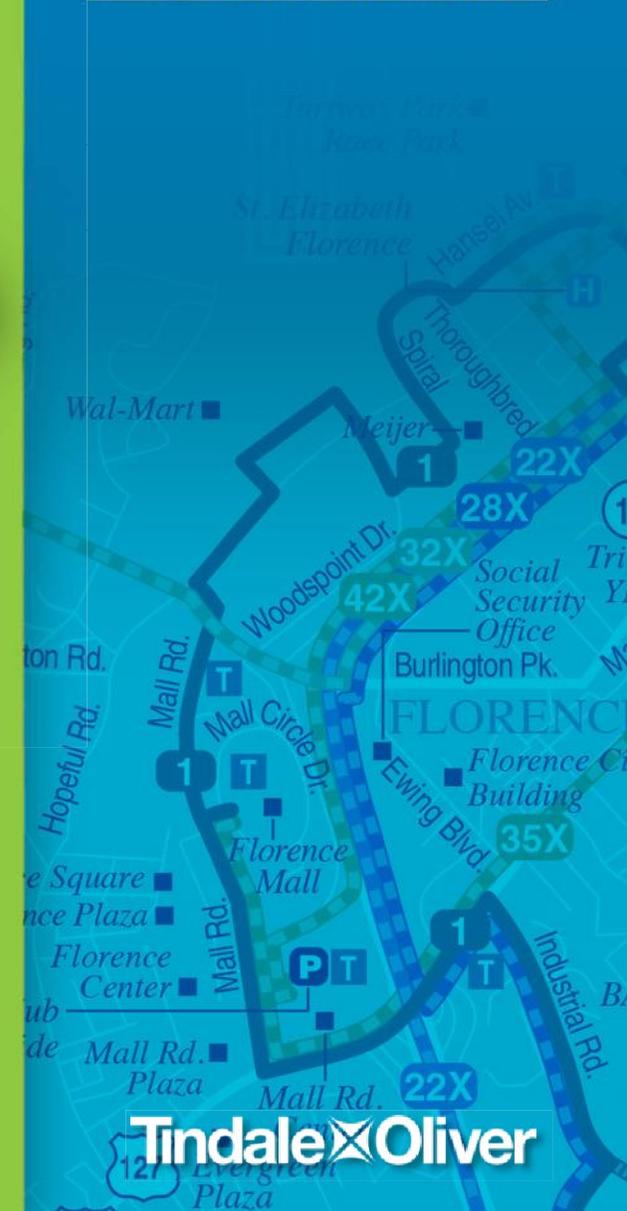
#: New local route - Healthline  
 ##: New express route - 42X Boone/Florence Express



# Transit Planning Concepts



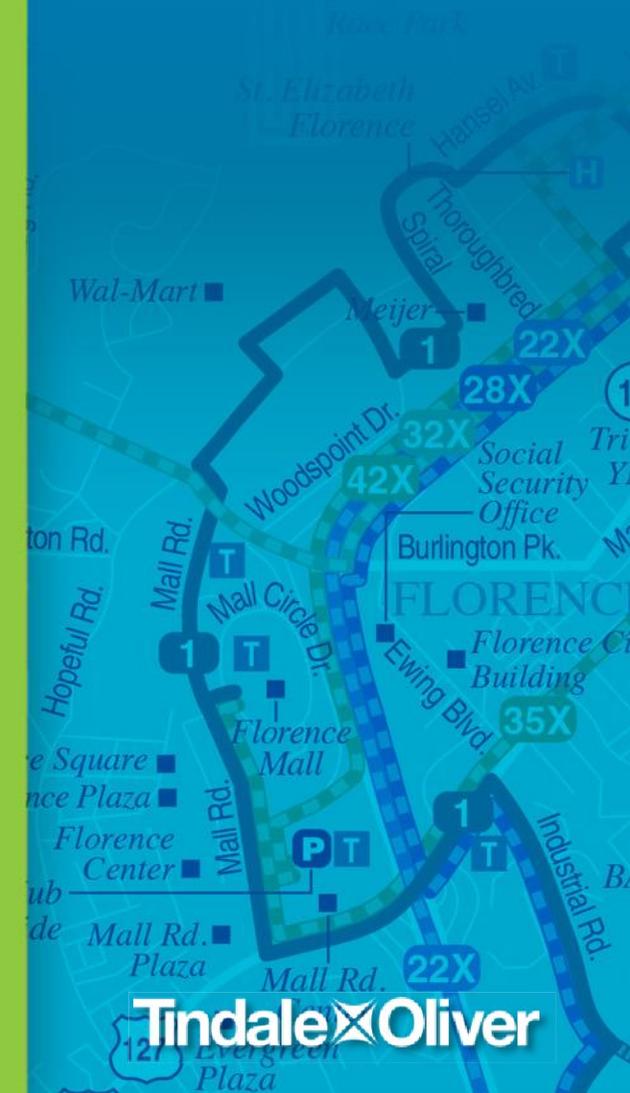
	2020 Redesign Service Hours	Existing Service Hours
<b>Total All Service</b>	<b>191,303</b>	<b>203,125</b>
Frequent Service - Revenue Hours	130,978	57,975
% of Total	<b>69%</b>	<b>29%</b>
Coverage Service - Revenue Hours	57,630	145,150
% of Total	<b>31%</b>	<b>71%</b>



# Impacts of Changes: Proposed 2020 Redesign Network Results

Characteristics	Weekday Frequency (min)	Saturday Frequency (min)	Sunday Frequency (min)	Routes	Revenue Hours	Weekday VOMS*
Existing Network	15/100+	15/100+	15/100+	27	203,125	75
2020 Redesign Network	15/60	15/86	15/86	18	191,303	48
<b>Percent Change</b>				<b>-33.3%</b>	<b>-5.8%</b>	<b>-36%</b>

\*VOMS: Vehicles Operated in Maximum Service  
 Note: Results include information from the NKU Shuttle



# Socioeconomic Impacts within 1/4-mile of Service

Comparison	Area (square miles)	Population	Employment	Transportation Disadvantaged
Existing Network	68	144,518	183,564	40,403
Proposed Network	44	102,987	162,920	29,945
<b>Change</b>	<b>-35.5%</b>	<b>-28.7%</b>	<b>-11.2%</b>	<b>-29.5%</b>

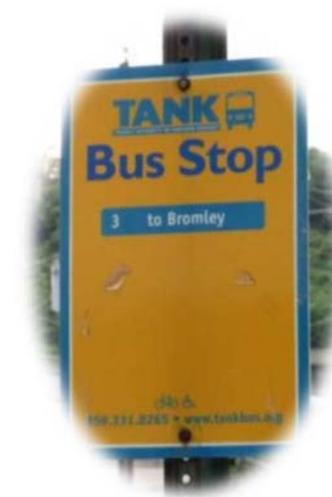
Comparison	Area (square miles)	Population	Employment	Transportation Disadvantaged
Existing Network (15-minute frequency or better)	2	9,617	65,939	2,216
Proposed Network (15-minute or better frequency)	3	15,841	72,567	4,128
<b>Change</b>	<b>50.0%</b>	<b>64.7%</b>	<b>10.1%</b>	<b>94.2%</b>

Comparison	Area (square miles)	Population	Employment	Transportation Disadvantaged
Existing Network (30-minute frequency or better)	6	19,908	66,740	5,744
Proposed Network (30-minute or better frequency)	19	50,838	105,816	14,807
<b>Change</b>	<b>216.7%</b>	<b>155.4%</b>	<b>58.5%</b>	<b>157.8%</b>

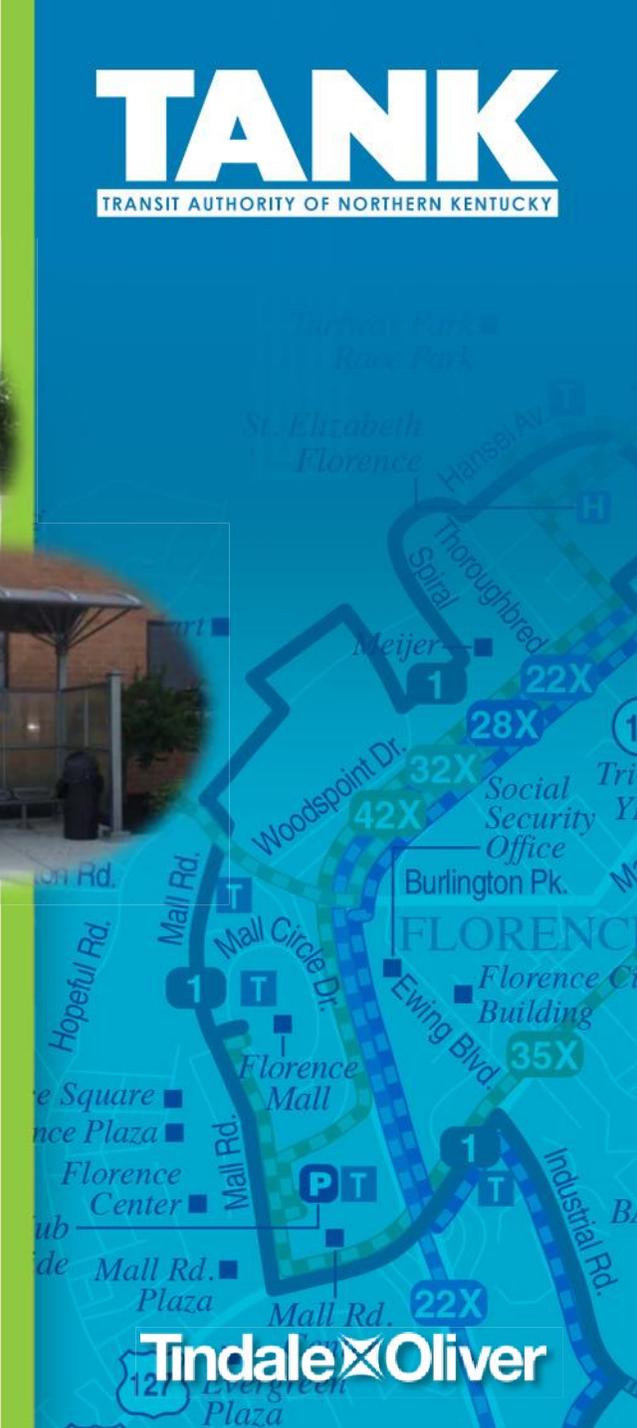


# Recommendations

- Improvements to:
  - Shelter design & consistency
  - Bus stop spacing & accessibility
  - Technology use
  - Signage & passenger information
  - Fare simplification
  - Aggressive marketing of improved service to CVG
  - Rideshare/microtransit pilot program in TBD service area
- On-Road Reliefs
- Federal ADA Service Area
- New P&R
  - Meijer's on US 27
  - Latonia Plaza on Winston Avenue
  - 6<sup>th</sup> & Donnermeyer Drive

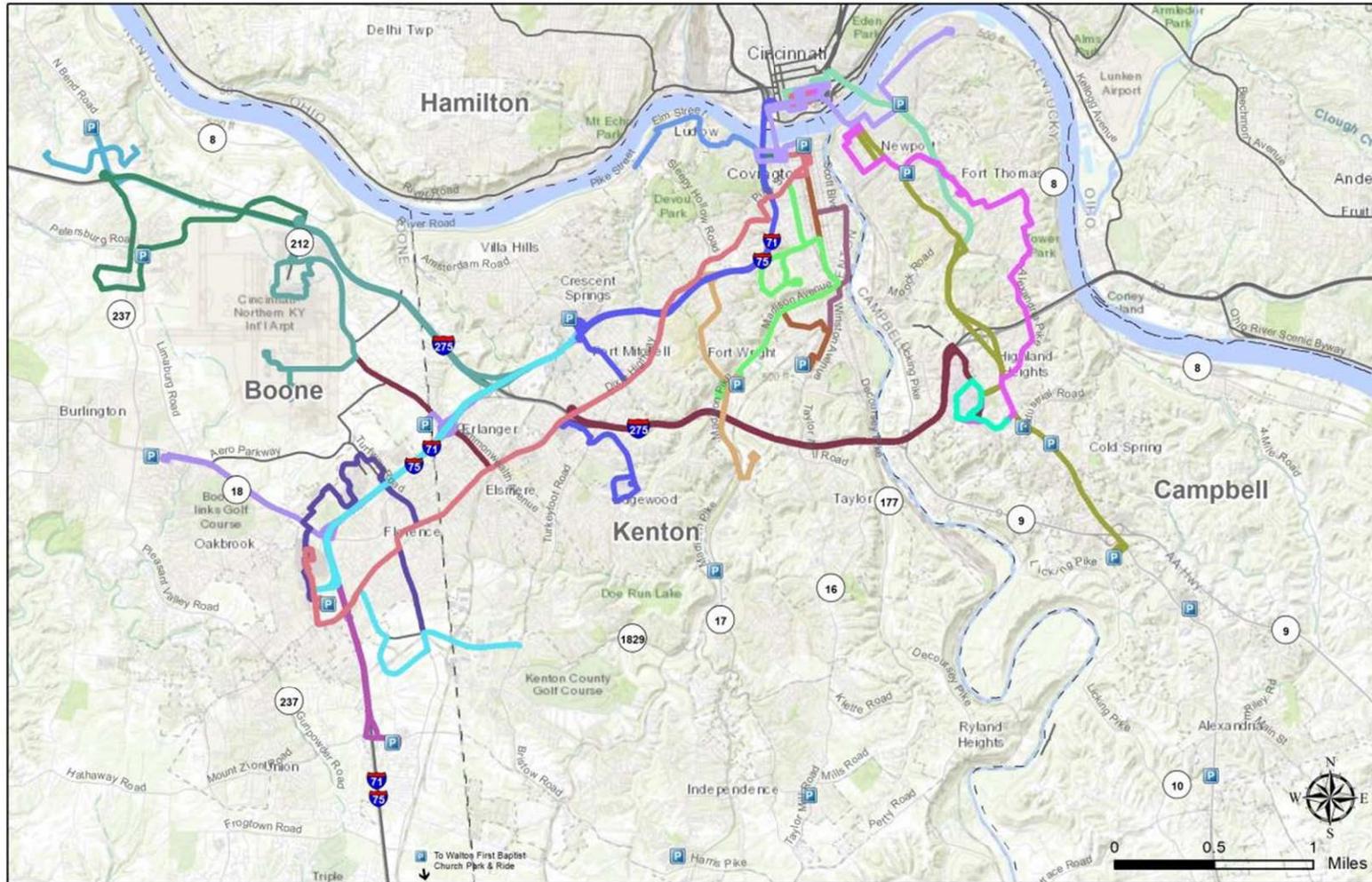


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# Future Vision for TANK Network

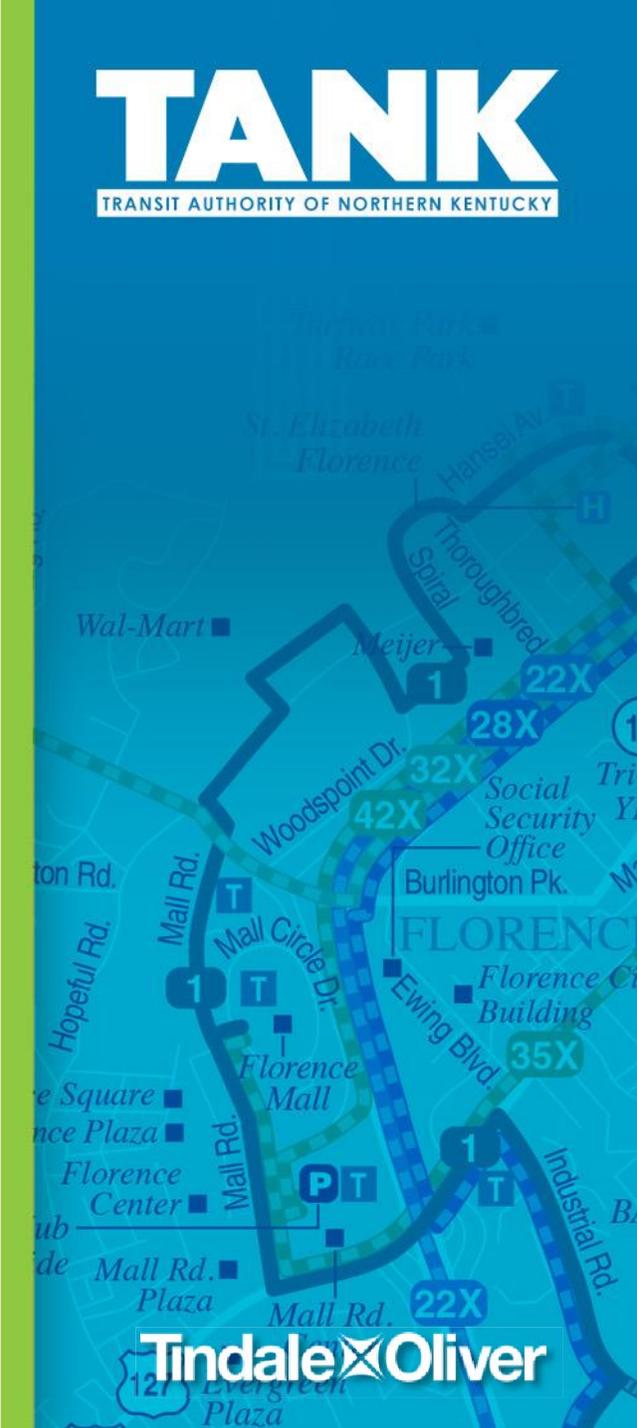
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Route 1	Route 7	Route 25	Route 25X	Route 39X	Park & Ride Lots
Route 2	Route 8	Route 1X	Route 30X	Route 40X	
Route 3	Route 16	Route 2X	Route 32X	Southbank Shuttle	
Route 5	Route 18	Route 22X	Route 35X	NKU Shuttle	

Aspirational Network

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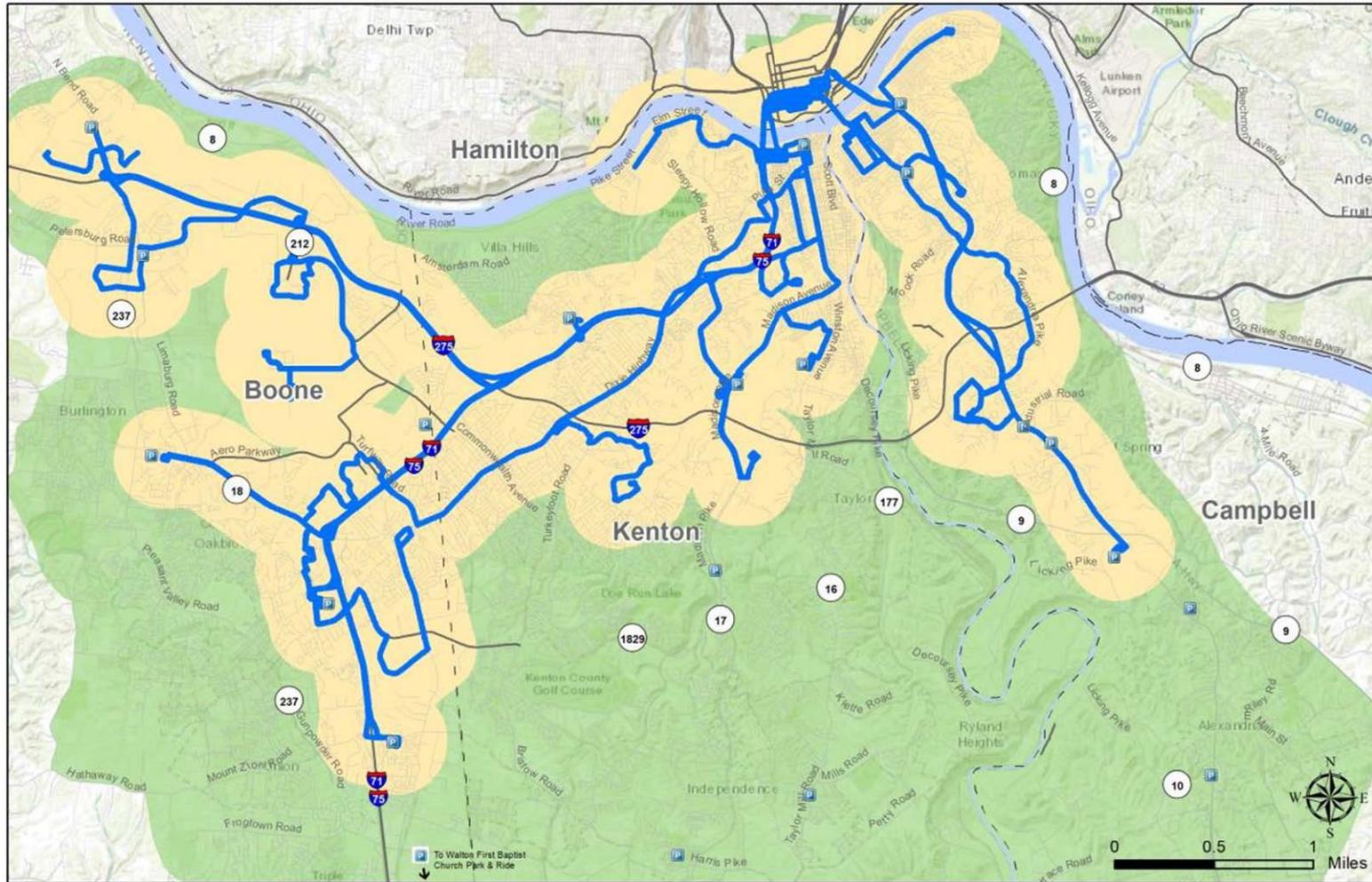
# Impacts of Changes: Aspirational Network Results

Characteristics	Weekday Frequency (min)	Saturday Frequency (min)	Sunday Frequency (min)	Routes	Revenue Hours	Weekday VOMS*
Existing Network	15/100+	15/100+	15/100+	27	203,125	75
2020 Redesign Network	15/60	15/86	15/86	18	191,303	48
Aspirational Network	15/40	15/86	15/86	20	270,890	61
<b>Percent Change</b>				<b>11.1%</b>	<b>41.6%</b>	<b>27.1%</b>

\*VOMS: Vehicles Operated in Maximum Service  
Note: Results include information from the NKU Shuttle



# ADA Service Area Comparison



Park-and-Ride Lots	3/4-mile ADA Network (Whole Network)
Proposed Network	Existing RAMP Service Area

ADA Service Area



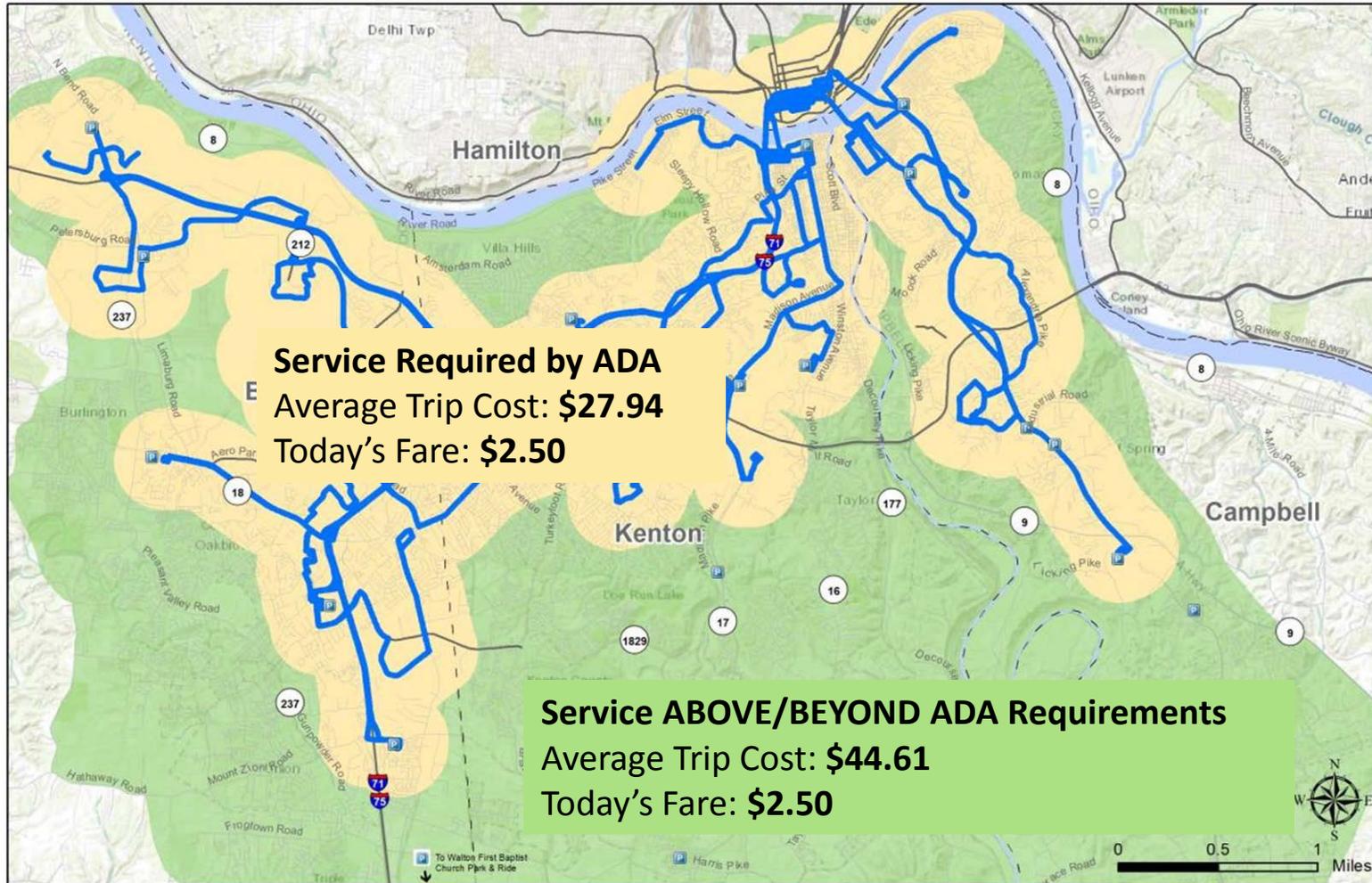
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# ADA Service Area Comparison



Park-and-Ride Lots	3/4-mile ADA Network (Whole Network)
Proposed Network	Existing RAMP Service Area

ADA Service Area

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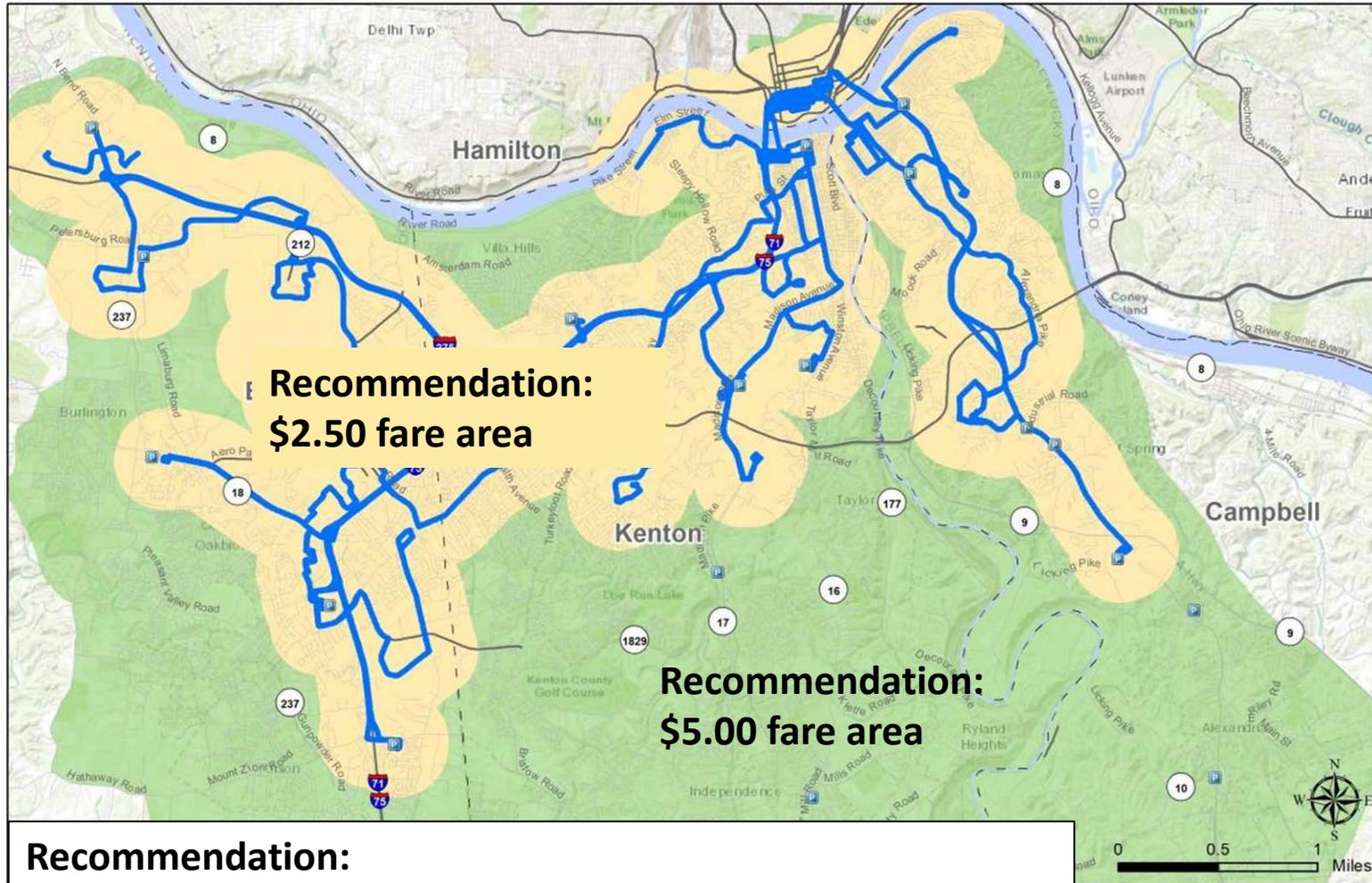
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**Tindale Oliver**

# ADA Service Area Comparison



**Recommendation:**  
Maintain Service for Existing RAMP Service Area  
Maintain \$2.50 Fare for areas within ¼ mile of fixed route  
Increase Fare to \$5.00 for areas outside of ¼ mile buffer

ADA Service Area

# TANK

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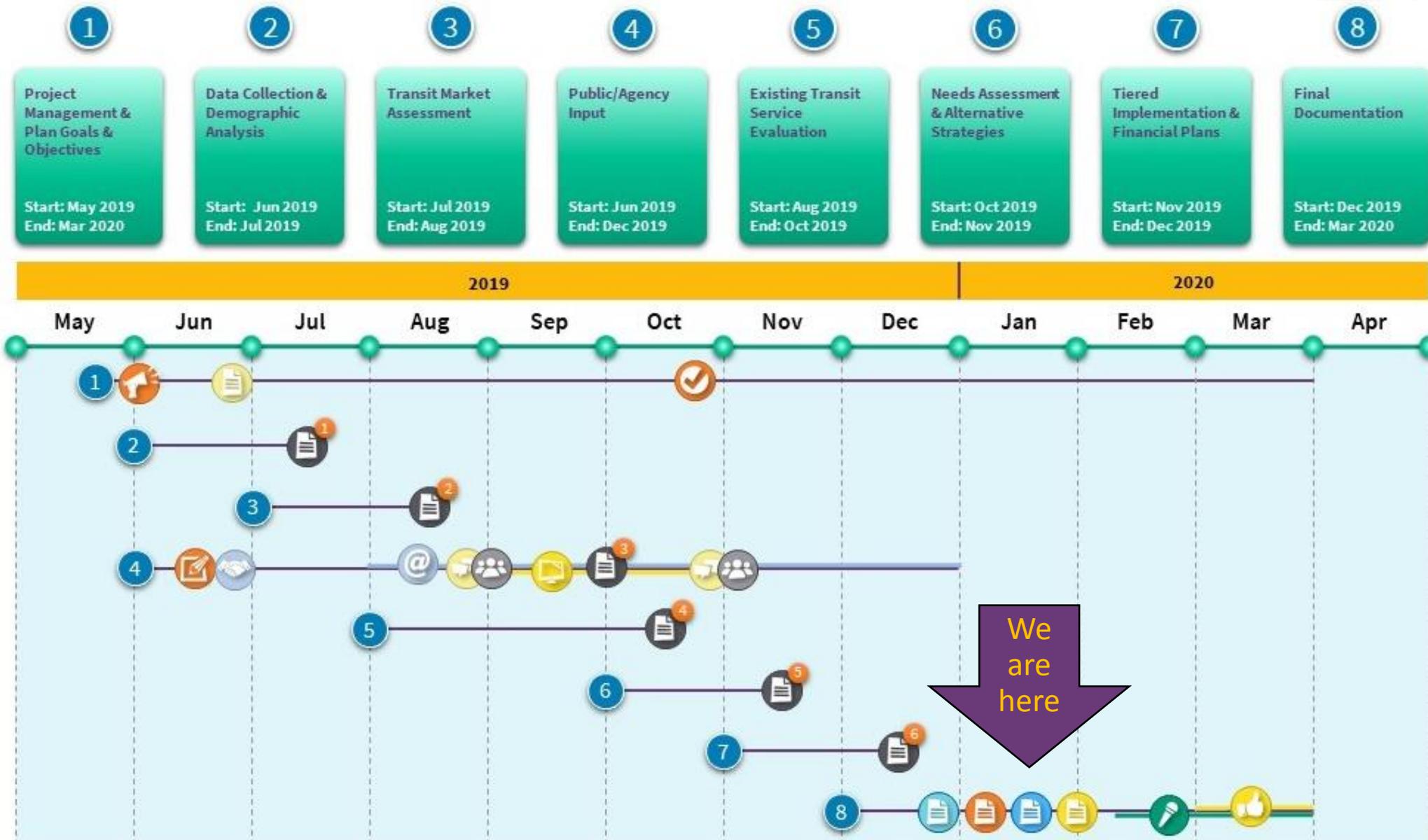
DAYTRIPPER SERVICE AREA (Area in White)

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# Project Schedule & Status

# TANK

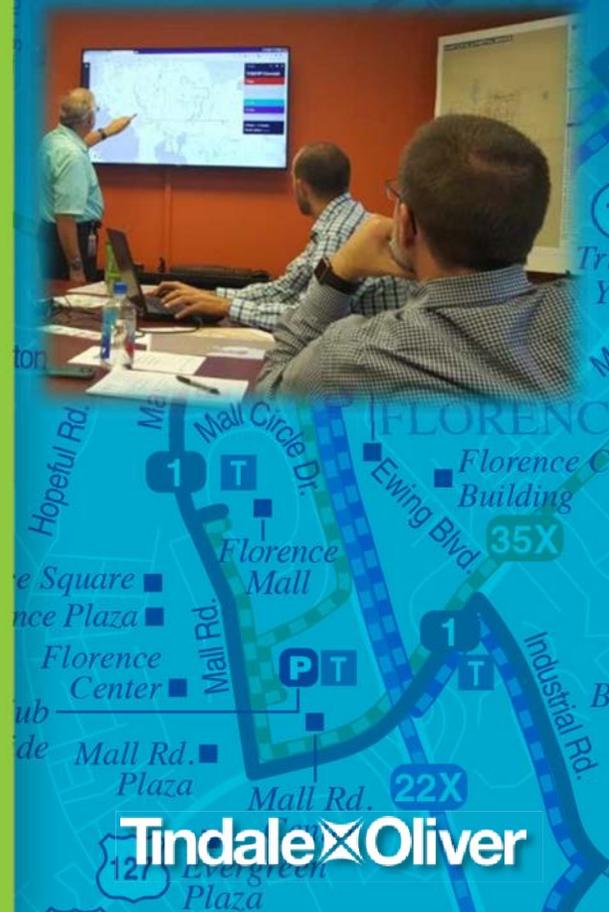
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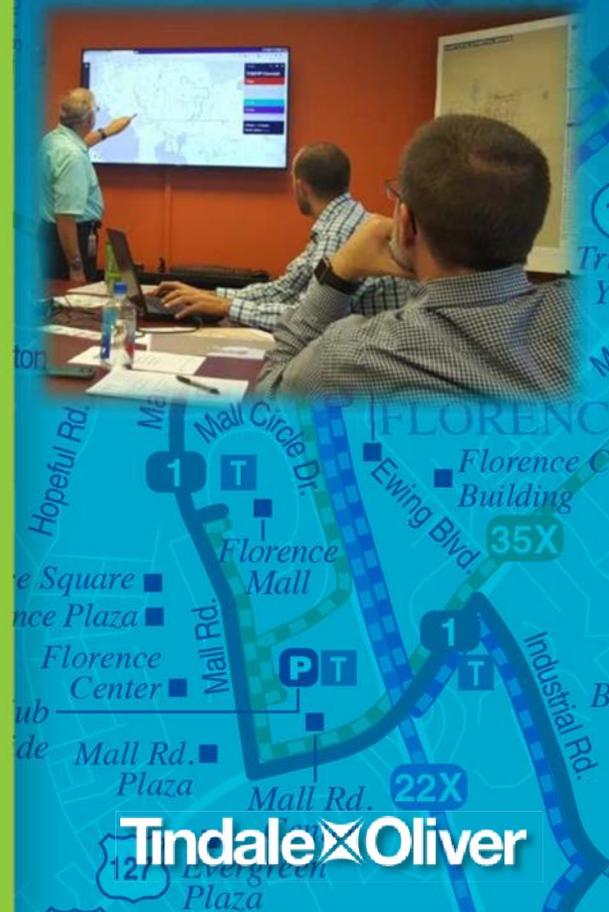
# Important Meetings

- **Stakeholder Meeting** **Jan 7**
  - Ellerman, Guenther, Thompson to represent TANK Board
- **Public Meeting** **Jan 7**
  - 4pm to 7pm, Covington Career Center
- **Kenton County Fiscal Court** **Jan 9**
  - 5:30pm, Independence Court House
- **Boone County Fiscal Court** **Jan 14**
  - 5:30pm, Burlington Court House
- **Campbell County Fiscal Court** **Jan 15**
  - 5:30pm, Newport



# Next Steps

- Complete second phase of stakeholder & public engagement (Jan)
- Make adjustments to final plan (Feb)
- Present plan for adoption (Feb/Mar)
- Incorporate into FY21/FY22 budget projections (Mar)
- Create implementation plan (Apr)
- New system in operation (Fall 2020)



# How Do You Stay Informed?

- **Project Website:**

<http://tankbus.org/>

- **Twitter:**

[@tankbus](https://twitter.com/tankbus)

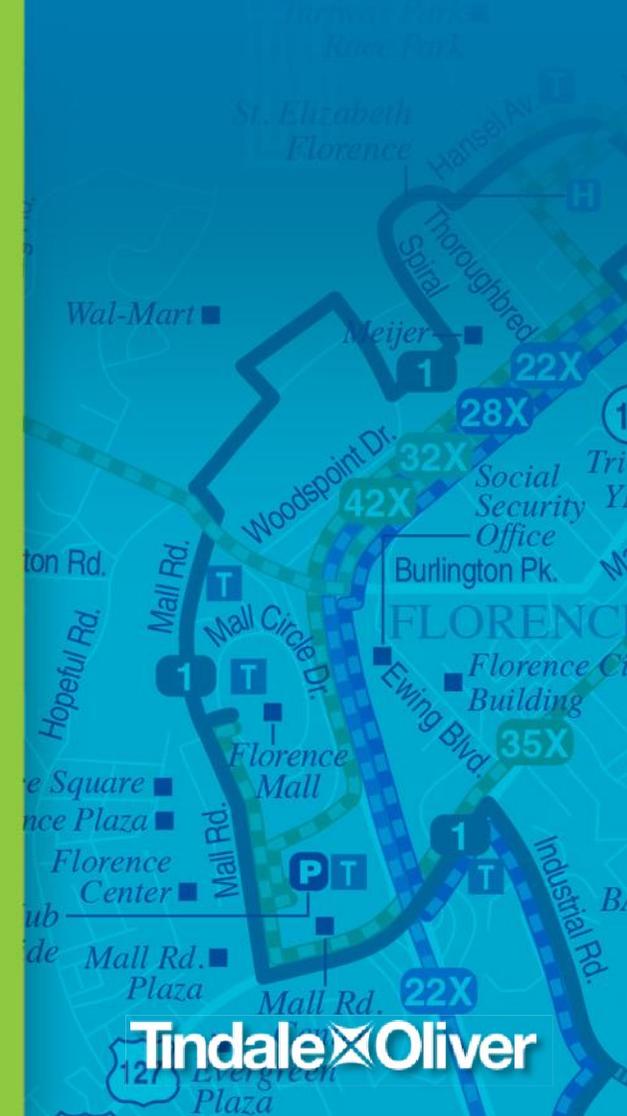
- **Facebook:**

[TANK \(Transit Authority of Northern Kentucky\)](https://www.facebook.com/TANK(TransitAuthorityofNorthernKentucky))

- **Instagram:**

[tankbus](https://www.instagram.com/tankbus)

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TRANSIT AUTHORITY OF NORTHERN KENTUCKY



# Questions?



## Transit Authority of Northern Kentucky

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Manager of Planning  
(859) 814-2148  
fbusofsky@tankbus.org

### Consultant Team

