

Transportation Analysis

Dublin City Schools Redistricting
Dublin, Ohio

October 13, 2025

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Appendix A: Travel Routes

Introduction

ms consultants performed a transportation analysis as part of Dublin City Schools 2025 High School Redistricting process. The purpose of this analysis is to compare the changes in travel times/travel distances due to the proposed high school redistricting. This analysis considers both vehicular and bicycle/pedestrian routes. This study analyzes five scenarios for high school boundaries:

- Existing High School Boundaries (E)
- High School Draft I
- High School Draft II
- High School Draft III
- Public Option (P)

The study identified 17 locations in the district that would potentially be reassigned to a different high school under one or more scenarios. A summary of the locations and which high schools are considered for each location can be found in **Table 1**.

Table 1: Study Location Summary

#	Name	Address	Jerome	Coffman	Scioto
1	Glacier Ridge Metro Park South Entrance	7825 Hyland-Croy Road	E, I, II, P	III	--
2	Karrer Middle School	7245 Tullymore Drive	E, P	I, II, III	--
3	Avery Park South Entrance	7401 Avery Road	E, I, II, P	III	--
4	The Country Club at Muirfield Village	8715 Muirfield Drive	E, III, P	I, II	--
5	Glick Pool	5176 Glick Road	E, III, P	I, II	--
6	Muirfield Village Golf Club	5750 Memorial Drive	E, III, P	I, II	--
7	Bristol Commons	5599 Bristol Parkway	--	E, I, II, P	III
8	Bailey Elementary School	4900 Brandonway Drive	--	E, I, P	II, III
9	Sells Middle School	150 Bridge Street	--	E, P	I, II, III
10	Blazer Parkway Starbucks	5885 Frantz Road	--	E, P	I, II, III
11	Llewellyn Farms Park	4850 Tuttle Road	--	E, III, P	I, II
12	Northbridge Plaza	5736 Frantz Road	--	E, III, P	I, II
13	Davis Cemetery	5706 Riverside Drive	--	E, III, P	I, II
14	Abbey Church Village	6003 Abbey Chapel Drive	--	E, III, P	I, II
15	Hayden Run Plaza	2906 Hayden Road	--	E, III, P	I, II
16	Wright Elementary School	2335 Case Road	--	II	E, I, III, P
17	Depp Elementary School	9001 Gardenia Drive	E, I, II, III	--	P



Figure 1: Study Area

Evaluation Criteria

Several criteria have been identified in order to compare the transportation to/from each of the proposed high schools. The criteria are summarized below.

Vehicular Travel

Vehicular travel is summarized by the following criteria:

Route Distance

Route mileage is calculated (avoiding freeways) for traveling between the study location and the high school.

Travel Times

Travel times are provided for the following time periods:

- AM School Arrival – 7:00 AM
- Afternoon School Dismissal – 2:45 PM
- PM Commuter Peak – 5:30 PM

Bottlenecks

The number of “bottleneck” locations along the travel route is provided. These are locations where congestion is frequent and can result in highly variable travel times during peak hours. This includes all crossings over the Scioto River.

Bicycle & Pedestrian Travel

Bicycle and pedestrian travel performance is summarized by the following criteria:

Route Distance

Mileage is calculated for each bicycle/pedestrian route. For the purpose of determining bicycle/pedestrian routes, the use of bikeways were prioritized over using streets without bicycle/pedestrian facilities, even if it results in a longer travel path.

Bicycle/Pedestrian Facilities

This criteria provides a breakdown of the portion of the route that is via bikeway, via sidewalk, or has no dedicated pedestrian/bicycle facilities. Bikeways are defined from Dubscovery, the City of Dublin’s GIS database.

Roadway Lighting

This indicates the portion of the route where highway/pathway lighting exists along the corridor.

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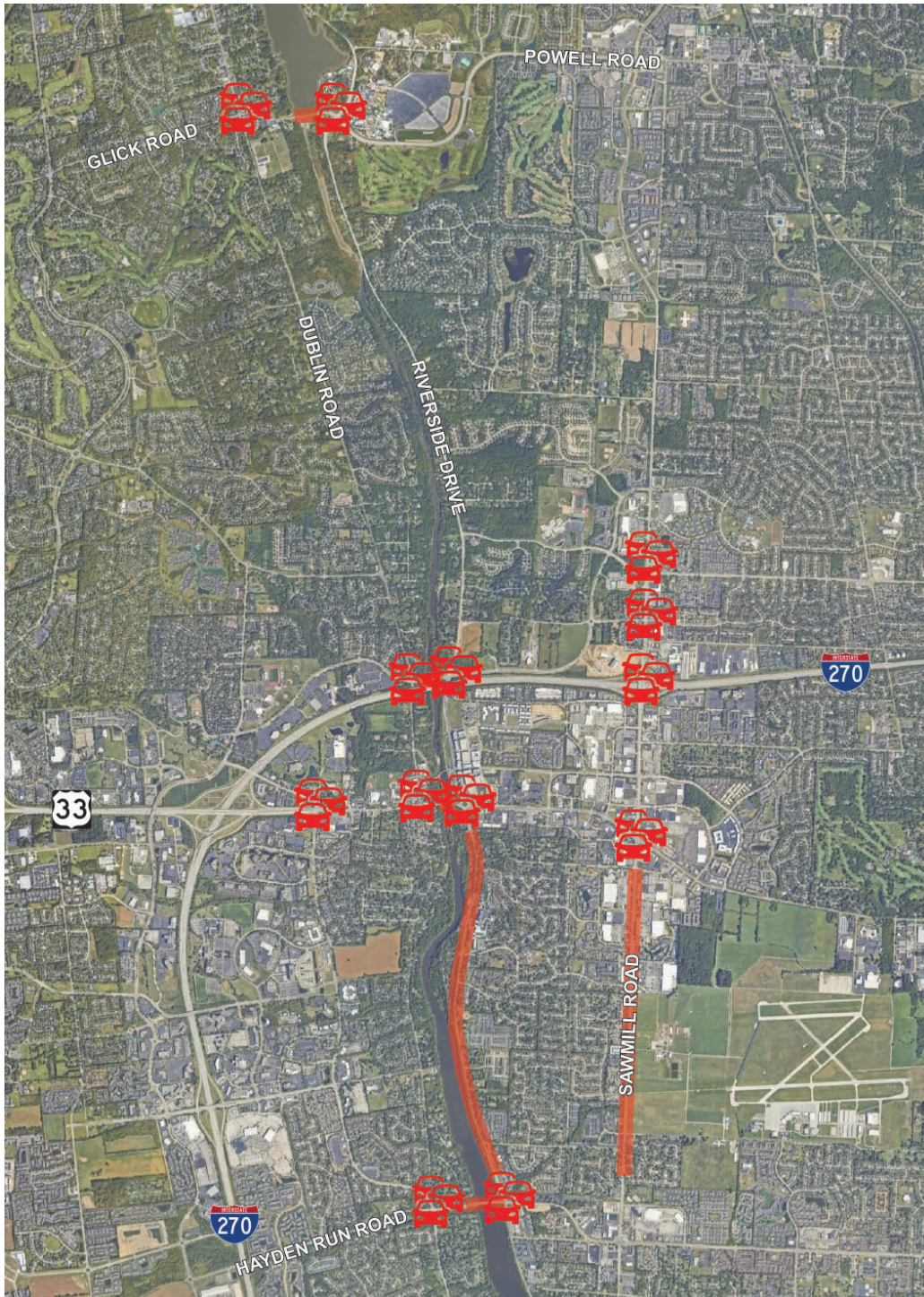


Figure 2: Bottlenecks

Major Roadway Crossings

This indicates the number of major roadways that a bicyclist/pedestrian would have to cross along the route. For this calculation, major roadways are defined as collector roads with posted speeds at or above 35mph or roadways with two or more through lanes in each direction. Pedestrian tunnels are not included in this calculation – only locations where the bicyclist/pedestrian would cross a roadway via crosswalk.

Uphill Grades

The Scioto River creates steep uphill grades through many portions of the school district that make cycling less desirable for some individuals. Routes that go up these hills are noted.

Other Issues

This criteria provides data on two items:

- Locations where COTA bus service would be feasible option for the route. COTA Route 33 travels along Sawmill Road and has a bus stop at Hard Road, approximately 2,000' east of Dublin Scioto High School. Route 33 could provide access to/from Scioto HS for some parts of the District.
- High-speed (45mph+) roadways with stop-controlled (unsignalized, non-roundabout) intersections can create safety issues for those navigating from the minor street. Routes where drivers would have to make a turn or through movement from a stopped roadway across a high-speed road are noted.

Location 1: Glacier Ridge Metro Park South Entrance

		Jerome H.S. 	Coffman H.S. 
Scenario		Scenarios E, I, II, P	Scenario III
Vehicular Travel	Route Distance	0.7 miles	4.0 miles
	AM Arrival Peak	2 minutes	10 minutes
	Afternoon Dismissal	2 minutes	9 minutes
	PM Commuter Peak	2 minutes	9 minutes
	Major Bottlenecks (excluding HS itself)	None	None
Bicycle & Pedestrian Travel	Route Distance	0.7 miles	3.8 miles
	Bicycle / Pedestrian Facilities	100% bikeway	100% bikeway
	Lighting	50% street lighting	15% street lighting
	Major Roadway Crossings	2 major roadway crossing	3 major roadway crossings
	Uphill Grades	None	None
Other Issues		--	--

Location 2: Karrer Middle School

		Jerome H.S. 	Coffman H.S. 
Scenario		Scenarios E, P	Scenarios I, II, III
Vehicular Travel	Route Distance	1.6 miles	2.0 miles
	AM Arrival Peak	6 minutes	7 minutes
	Afternoon Dismissal	5 minutes	8 minutes
	PM Commuter Peak	4 minutes	8 minutes
	Major Bottlenecks (excluding HS itself)	None	None
Bicycle & Pedestrian Travel	Route Distance	1.7 miles	2.3 miles
	Bicycle / Pedestrian Facilities	100% bikeway	90% bikeway 10% sidewalk only
	Lighting	0% street lighting	20% street lighting
	Major Roadway Crossings	1 major roadway crossing	1 major roadway crossings
	Uphill Grades	None	None
Other Issues		--	--

Location 3: Avery Park South Entrance

		Jerome H.S. 	Coffman H.S. 
Scenario		Scenarios E, I, II, P	Scenario III
Vehicular Travel	Route Distance	1.3 miles	2.2 miles
	AM Arrival Peak	3 minutes	7 minutes
	Afternoon Dismissal	3 minutes	6 minutes
	PM Commuter Peak	3 minutes	7 minutes
	Major Bottlenecks (excluding HS itself)	None	None
Bicycle & Pedestrian Travel	Route Distance	1.3 miles	2.5 miles
	Bicycle / Pedestrian Facilities	100% bikeway	100% bikeway
	Lighting	0% street lighting	20% street lighting
	Major Roadway Crossings	1 major roadway crossing	2 major roadway crossings
	Uphill Grades	None	None
Other Issues		--	--

Location 4: The Country Club at Muirfield Village

		Jerome H.S. 	Coffman H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Route Distance	2.8 miles	3.6 miles
	AM Arrival Peak	6 minutes	7 minutes
	Afternoon Dismissal	5 minutes	7 minutes
	PM Commuter Peak	6 minutes	6 minutes
	Major Bottlenecks (excluding HS itself)	None	None
Bicycle & Pedestrian Travel	Route Distance	2.1 miles	3.0 miles
	Bicycle / Pedestrian Facilities	50% bikeway 20% bike lanes 20% sidewalk only 10% no dedicated facilities	60% bikeway 30% bike lanes 10% no dedicated facilities
	Lighting	0% street lighting	40% street lighting
	Major Roadway Crossings	1 major roadway crossing	2 major roadway crossings
	Uphill Grades	None	None
Other Issues		--	--

Location 5: Glick Pool

		Jerome H.S. 	Coffman H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Route Distance	3.3 miles	4.7 miles
	AM Arrival Peak	7 minutes	10 minutes
	Afternoon Dismissal	6 minutes	10 minutes
	PM Commuter Peak	7 minutes	10 minutes
	Major Bottlenecks (excluding HS itself)	None	None
Bicycle & Pedestrian Travel	Route Distance	3.1 miles	4.7 miles
	Bicycle / Pedestrian Facilities	100% bikeway	100% bikeway
	Lighting	5% street lighting	10% street lighting
	Major Roadway Crossings	2 major roadway crossings	5 major roadway crossings
	Uphill Grades	None	None
Other Issues		--	--

Location 6: Muirfield Village Golf Club

		Jerome H.S. 	Coffman H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Route Distance	2.7 miles	3.5 miles
	AM Arrival Peak	6 minutes	8 minutes
	Afternoon Dismissal	6 minutes	7 minutes
	PM Commuter Peak	6 minutes	7 minutes
	Major Bottlenecks (excluding HS itself)	None	None
Bicycle & Pedestrian Travel	Route Distance	2.3 miles	2.9 miles
	Bicycle / Pedestrian Facilities	50% bikeway 20% sidewalk only 30% no dedicated facilities	80% bikeway 10% bike lanes 10% no dedicated facilities
	Lighting	5% street lighting	40% street lighting
	Major Roadway Crossings	2 major roadway crossings	3 major roadway crossings
	Uphill Grades	None	None
Other Issues		--	--

Location 7: Bristol Commons Park

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, I, II, P	Scenario III
Vehicular Travel	Distance	1.6 miles	3.9 miles
	AM Arrival Peak	4 minutes	12 minutes
	Afternoon Dismissal	4 minutes	11 minutes
	PM Commuter Peak	4 minutes	12 minutes
	Major Bottlenecks (excluding HS itself)	None	2 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	1.6 miles	4.0 miles
	Bicycle / Pedestrian Facilities	100% bikeway	100% bikeway
	Lighting	40% street lighting	30% street lighting
	Major Roadway Crossings	1 major roadway crossing	5 major roadway crossings
	Uphill Grades	None	Uphill grade from river
Other Issues		--	--

Location 8: Bailey Elementary School

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, I, P	Scenarios II, III
Vehicular Travel	Distance	1.9 miles	2.8 miles
	AM Arrival Peak	5 minutes	9 minutes
	Afternoon Dismissal	4 minutes	9 minutes
	PM Commuter Peak	5 minutes	9 minutes
	Major Bottlenecks (excluding HS itself)	None	2 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	1.7 miles	2.7 miles
	Bicycle / Pedestrian Facilities	75% bikeways 25% sidewalk only	100% bikeways
	Lighting	40% street lighting	70% street lighting
	Major Roadway Crossings	1 major roadway crossings	4 major roadway crossings
	Uphill Grades	None	Uphill grade from river
Other Issues		--	--

Location 9: Sells Middle School

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, P	Scenarios I, II, III
Vehicular Travel	Distance	1.2 miles	2.8 miles
	AM Arrival Peak	6 minutes	9 minutes
	Afternoon Dismissal	6 minutes	12 minutes
	PM Commuter Peak	7 minutes	12 minutes
	Major Bottlenecks (excluding HS itself)	1 bottleneck location	3 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	1.2 miles	2.6 miles
	Bicycle / Pedestrian Facilities	95% bikeway 5% sidewalk only	85% bikeway 15% sidewalk only
	Lighting	75% street lighting	90% street lighting
	Major Roadway Crossings	1 major roadway crossings	4 major roadway crossings
	Uphill Grades	None	Uphill grade from river
Other Issues		--	--

Location 10: Blazer Parkway Starbucks

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, P	Scenarios I, II, III
Vehicular Travel	Distance	1.7 miles	3.7 miles
	AM Arrival Peak	7 minutes	12 minutes
	Afternoon Dismissal	9 minutes	16 minutes
	PM Commuter Peak	9 minutes	18 minutes
	Major Bottlenecks (excluding HS itself)	1 bottleneck location	3 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	1.7 miles	3.9 miles
	Bicycle / Pedestrian Facilities	100% bikeway	85% bikeway 15% sidewalk only
	Lighting	60% street lighting	60% street lighting
	Major Roadway Crossings	3 major roadway crossings	6 major roadway crossings
	Uphill Grades	None	Uphill grade from river
Other Issues		--	--

Location 11: Llewellyn Farms Park

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Distance	2.7 miles	4.2 miles
	AM Arrival Peak	12 minutes	12 minutes
	Afternoon Dismissal	12 minutes	14 minutes
	PM Commuter Peak	13 minutes	15 minutes
	Major Bottlenecks (excluding HS itself)	1 bottleneck location	3 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	2.7 miles	4.1 miles
	Bicycle / Pedestrian Facilities	100% bikeway	85% bikeway 15% sidewalk only
	Lighting	40% street lighting	60% street lighting
	Major Roadway Crossings	8 major roadway crossings	7 major roadway crossings
	Uphill Grades	None	Uphill grade from river
Other Issues		--	--

Location 12: Northbridge Plaza

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Distance	3.1 miles	5.2 miles
	AM Arrival Peak	12 minutes	14 minutes
	Afternoon Dismissal	13 minutes	15 minutes
	PM Commuter Peak	13 minutes	16 minutes
	Major Bottlenecks (excluding HS itself)	1 bottleneck location	3 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	3.1 miles	4.8 miles
	Bicycle / Pedestrian Facilities	70% bikeway 30% sidewalk only	70% bikeway 30% sidewalk only
	Lighting	55% street lighting	80% street lighting
	Major Roadway Crossings	9 major roadway crossing	6 major roadway crossings
	Uphill Grades	None	Uphill grade from river
Other Issues		--	--

Location 13: Davis Cemetery

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Distance	2.9 miles	3.3 miles
	AM Arrival Peak	12 minutes	9 minutes
	Afternoon Dismissal	13 minutes	11 minutes
	PM Commuter Peak	12 minutes	11 minutes
	Major Bottlenecks (excluding HS itself)	3 bottleneck locations	2 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	3.4 miles	3.4 miles
	Bicycle / Pedestrian Facilities	90% bikeway 10% no dedicated facilities	90% bikeway 10% no dedicated facilities
	Lighting	60% street lighting	70% street lighting
	Major Roadway Crossings	3 major roadway crossings	3 major roadway crossings
	Uphill Grades	Uphill grade from river	Uphill grade from river
Other Issues		--	--

Location 14: Abbey Church Village

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Distance	4.6 miles	5.0 miles
	AM Arrival Peak	15 minutes	12 minutes
	Afternoon Dismissal	16 minutes	17 minutes
	PM Commuter Peak	17 minutes	19 minutes
	Major Bottlenecks (excluding HS itself)	3 bottleneck locations	4 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	5.4 miles	5.4 miles
	Bicycle / Pedestrian Facilities	60% bikeway 30% sidewalk only 10% no dedicated facilities	50% bikeway 40% sidewalk only 10% no dedicated facilities
	Lighting	45% street lighting	55% street lighting
	Major Roadway Crossings	5 major roadway crossings	3 major roadway crossings
	Uphill Grades	Uphill grade from river	Uphill grade from river
Other Issues		No practical COTA service	COTA Route 33 provides service along Sawmill Road

Location 15: Hayden Run Plaza

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenarios E, III, P	Scenarios I, II
Vehicular Travel	Distance	4.5 miles	4.6 miles
	AM Arrival Peak	14 minutes	14 minutes
	Afternoon Dismissal	17 minutes	16 minutes
	PM Commuter Peak	18 minutes	17 minutes
	Major Bottlenecks (excluding HS itself)	3 bottleneck locations	3 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	4.5 miles	5.7 miles
	Bicycle / Pedestrian Facilities	70% bikeway 20% sidewalk only 10% no dedicated facilities	60% bikeway 30% sidewalk only 10% no dedicated facilities
	Lighting	65% street lighting	70% street lighting
	Major Roadway Crossings	10 major roadway crossings	3 major roadway crossings
	Uphill Grades	Uphill grade from river	Uphill grade from river
Other Issues		No practical COTA service	COTA Route 33 provides service along Sawmill Road

Location 16: Wright Elementary School

		Coffman H.S. 	Scioto H.S. 
Scenario		Scenario 2	Scenarios E, I, III, P
Vehicular Travel	Distance	5.2 miles	4.1 miles
	AM Arrival Peak	16 minutes	18 minutes
	Afternoon Dismissal	18 minutes	20 minutes
	PM Commuter Peak	16 minutes	21 minutes
	Major Bottlenecks (excluding HS itself)	3 bottleneck locations	4 bottleneck locations
Bicycle & Pedestrian Travel	Route Distance	5.6 miles	5.5 miles
	Bicycle / Pedestrian Facilities	70% bikeway 20% sidewalk only 10% no dedicated facilities	75% bikeway 15% sidewalk only 10% no dedicated facilities
	Lighting	80% street lighting	60% street lighting
	Major Roadway Crossings	4 major roadway crossings	3 major roadway crossings
	Uphill Grades	Uphill grade from river	Uphill grade from river
Other Issues		No practical COTA service	COTA Route 33 provides service along Sawmill Road

Location 17: Depp Elementary School

		Jerome H.S. 	Scioto H.S. 
Scenario		Scenarios E, I, II, III	Scenario P
Vehicular Travel	Distance	4.1 miles	8.8 miles
	AM Arrival Peak	11 minutes	20 minutes
	Afternoon Dismissal	9 minutes	20 minutes
	PM Commuter Peak	9 minutes	24 minutes
	Major Bottlenecks (excluding HS itself)	None	2 bottlenecks
Bicycle & Pedestrian Travel	Route Distance	4.9 miles	N/A
	Bicycle / Pedestrian Facilities	95% bikeway	N/A
	Lighting	5% street lighting	N/A
	Major Roadway Crossings	7 major roadway crossings	N/A
	Uphill Grades	None	Uphill grade from river
Other Issues		--	Multiple high-speed intersections