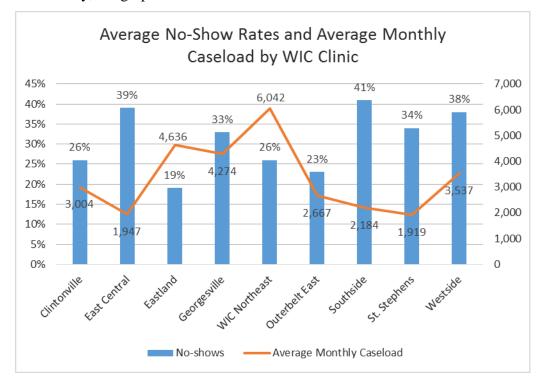
Appendix A: WIC Clinic Site Analysis

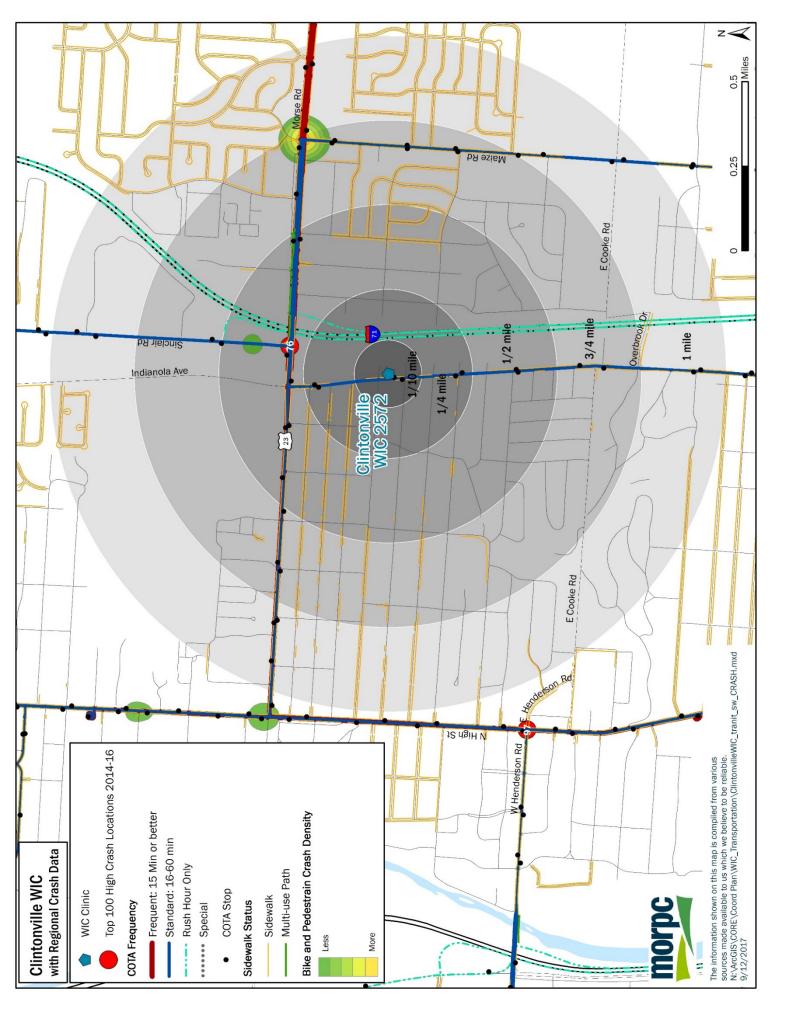
The Project Team analyzed the WIC clinic and NCH clinic sites using GIS data and COTA data.

The following GIS data was included in the mapping process:

- Clinic locations
- COTA lines, including the different types of lines: frequent (15 minutes or better), standard (16-60 minutes), rush hour only, special lines
- COTA bus stop locations
- Sidewalk locations
- Multi-use path locations
- Top 100 High Crash Locations 2014-2016
- Bike and Pedestrian Crash Density
- Radii of distance away from the clinic location of 1/10, 1/4, 1/2, 3/4 and 1 mile

COTA bus routes are also noted in the analysis, as are the average no-show rate in 2017 for the WIC clinics only, the graph below illustrates this.





Clintonville WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	Yes	Yes	Yes	Yes
COTA Frequent	No	No	Yes	Yes
Bus Stop (count)	2	4	10	14
Bus Stop in Front	Yes, in front, 4 Indianola Lockbourne			
Bus Lines and Proximity	 4 Indianola Lockbourne (1/10 mile) 11 Bryden Maize (½ mile) 34 Morse (½ mile) 42 Sharon Woods (½ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	No	No	No
Multi-use Path in Front	No			

Address: 4550 Indianola Ave, Columbus, OH 43220

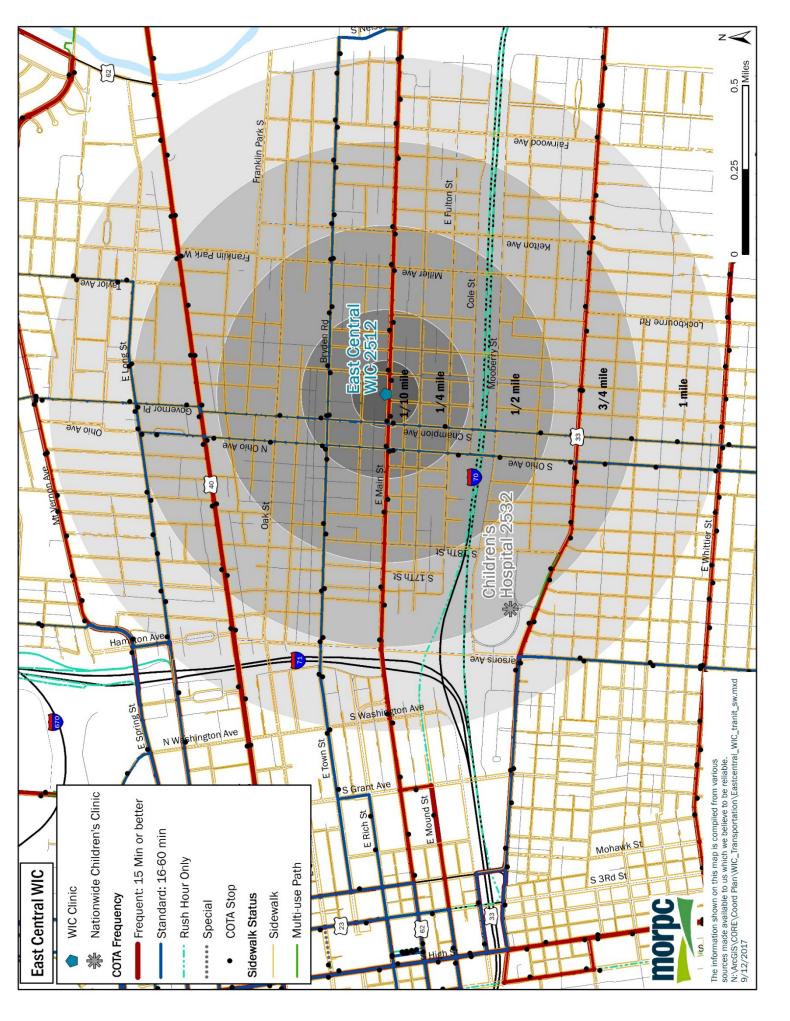
Analysis of Transportation Infrastructure around clinic:

- Sidewalks exist in the immediate vicinity of the clinic but are missing from many of the housing areas in the general area.
- There is a larger gridded street network to the west of the clinic and to the east, but it is divided from the neighborhood to the east by a highway.
- The clinic site has easy highway access.
- The 76th location on the Top 100 High Crash Locations for 2014-16 is within ½ mile of the clinic.
- There is a hot spot for bike and pedestrian crash density at Morse and Maize Rds, ³/₄ of a mile from the clinic.

Suggestion:

• Improve the sidewalk connectivity along Indianola.

This clinic had an average 26% no-show rate for the first 9 months of 2017.



East Central WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	Yes	Yes	Yes	Yes
COTA Frequent	Yes	Yes	Yes	Yes
Bus Stop (count)	5	13	18	46
Bus Stop in Front	Not directly in front, 2 E. Main St			
Bus Lines and Proximity	 2 E. Main St & Wilson Ave (in front) 22 S Champion Ave (1/10 mile) 11 Bryden Rd (¼ mile) 22 S Ohio Ave (¼ mile) 1 Livingston Ave (¾ mile) 10 Broad St (¾ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	No	No	No
Multi-use Path in Front	No			

Address: 1180 E. Main St, Columbus, OH 43205

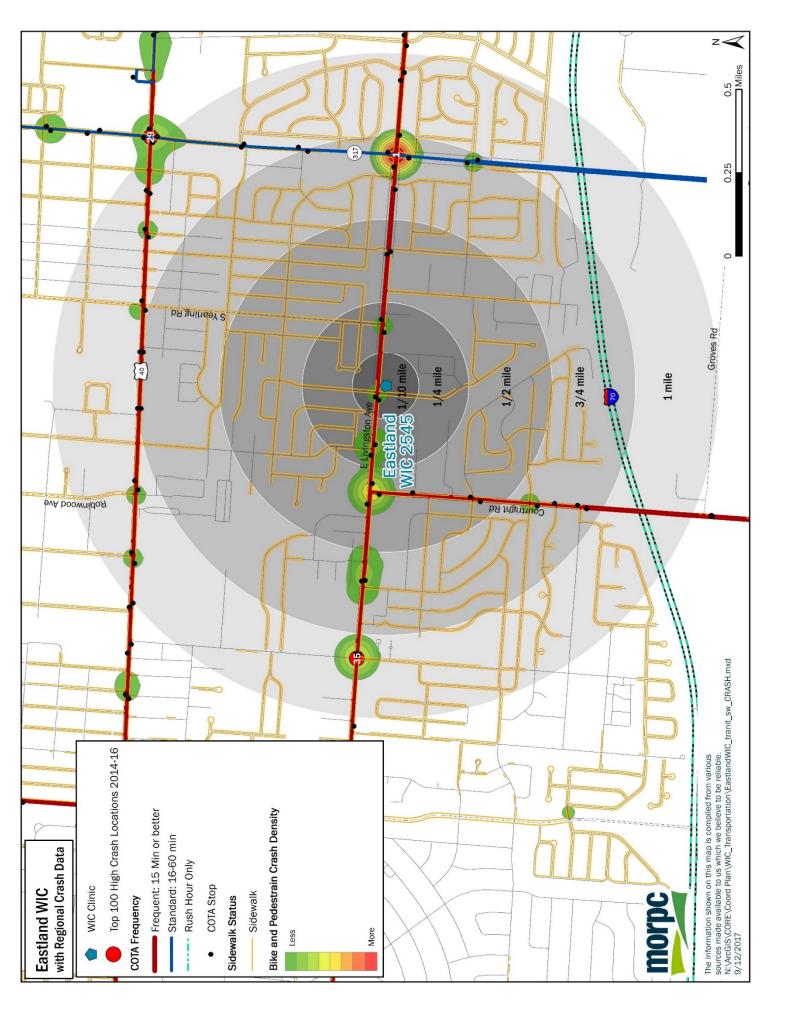
Analysis of Transportation Infrastructure around clinic:

- The surrounding area is a gridded network with a near complete network of sidewalks.
- This area is urban and very well served by pedestrian and transit infrastructure.
- Easy highway access.
- The 43rd location on the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile of the clinic.
- There are pockets of hot spots for bike and pedestrian crash density within 1/4, 1/2, and 3/4 of a mile on Main St.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₂ and ³/₄ of a mile on Bryden Rd.
- There are pockets of hot spots for bike and pedestrian crash density within ³/₄ of a mile on Livingston Ave.

Suggestions:

- The transportation network seems robust, so what else is going on with this population that keeps them from attending appointments? Look at appointment times for no-shows, employment/unemployment rates of clients, and if this population is very mobile or in transition.
- The majority of clients are walkers and use strollers. Show rates are worse in winter, as it is hard to take a stroller with multiple kids on public transit.

This clinic had an average 39% no-show rate for the first 9 months of 2017.



Eastland WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	No	No	No	Yes
COTA Frequent	Yes	Yes	Yes	Yes
Bus Stop (count)	2	4	8	17
Bus Stop in Front	Not directly in front, 1 Kenny Livingston			
Bus Lines and Proximity	 Kenny Livingston (in front) James Stelzer (½ mile) Hamilton (¾ mile) E. Main St (¾ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	No	No	No
Multi-use Path in Front	No			

Address: 3933 E. Livingston Ave, Columbus, OH 43227

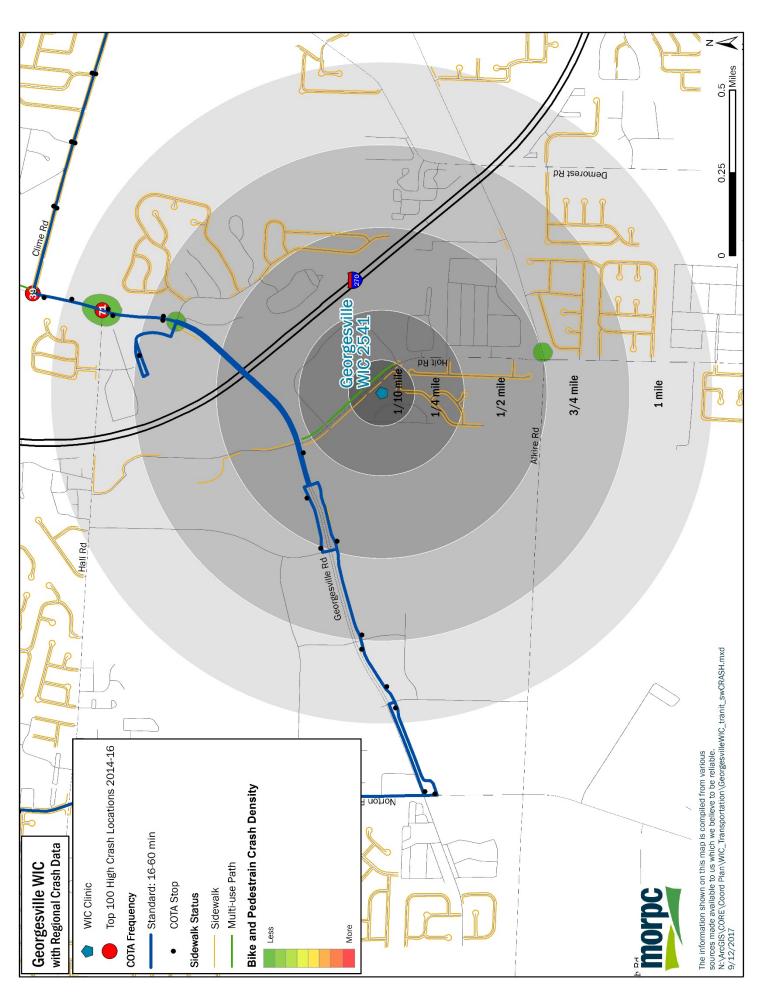
Analysis of Transportation Infrastructure around clinic:

- Sidewalks are well established, but the street network is disconnected, with the natural street grid broken by courts and cul-de-sacs.
- Near highway access, within 1 mile.
- The 1st and 35th locations on the Top 100 High Crash Locations for 2014-16 are within ³/₄ mile of the clinic.
- There are pockets of hot spots for bike and pedestrian crash density within 1/10, 1/4, 1/2, and 3/4 of a mile on Livingston Ave.

Suggestions:

- Focus infrastructure improvements on sidewalks and safer crossing, to help lessen the density of pedestrian and bicycle crashes.
- The sidewalks are not good in this area. Crossing the street is difficult and the clinic is near a high crash location.

This clinic had an average 19% no-show rate for the first 9 months of 2017.



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Georgesville WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ ⁄2 mile	³ ⁄4 mile
COTA Standard	No	No	Yes	Yes
COTA Frequent	No	No	No	No
Bus Stop (count)	0	0	3	5
Bus Stop in Front	None			
Bus Lines and Proximity	9 West Mou	and Bretnell (½ mile)	
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	Yes	Yes	No	No
Multi-use Path in Front	Yes			

Address: 1681 Holt Rd, Columbus, OH 43228

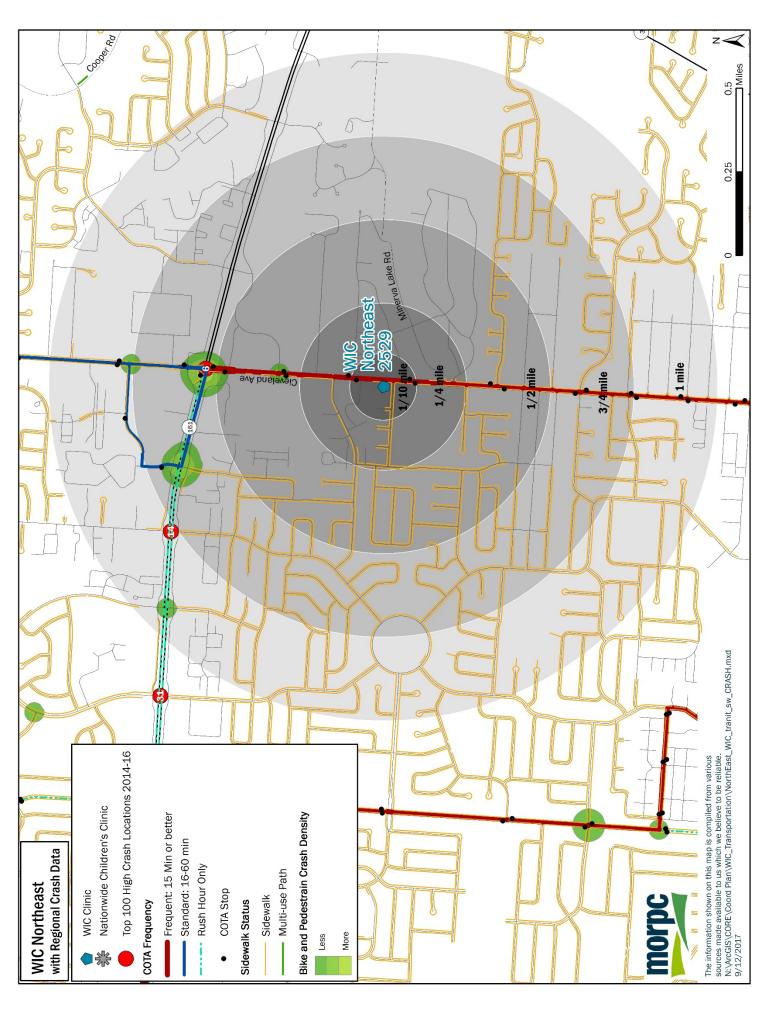
Analysis of Transportation Infrastructure around clinic:

- Sidewalks exist in the immediate vicinity of the clinic but are missing from many of the housing areas in the general area.
- The area around the clinic is mostly big box and auto-centric development.
- This area is generally not well served by transportation infrastructure other than roadways.
- The 71st location on the Top 100 High Crash Locations for 2014-16 is within 1 mile of the clinic.
- There are two small hot spots for bike and pedestrian crash density within ³/₄ miles of the clinic.

Suggestions:

- It appears that casino moving into the area made the clinic caseload decline. According to the clinic manager the caseload began to dip after the casino opened.
- Improve bus frequency and run times.
- Improve connection across Georgesville Rd. for the WB/SB COTA stop. There are no sidewalks connecting that bus stop to the clinic.

This clinic had an average 33% no-show rate for the first 9 months of 2017.



WIC Northeast Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	No	No	No	Yes
COTA Frequent	Yes	Yes	Yes	Yes
Bus Stop (count)	3	1	5	7
Bus Stop in Front	Not directly in front, 6 Cleveland Sullivant			
Bus Lines and Proximity	6 Cleveland Sullivant (1/10 mile) 34 Morse (³ / ₄ mile)			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	No	No	No
Multi-use Path in Front	No			

Address: 4337 Cleveland Ave, Columbus, OH 43224

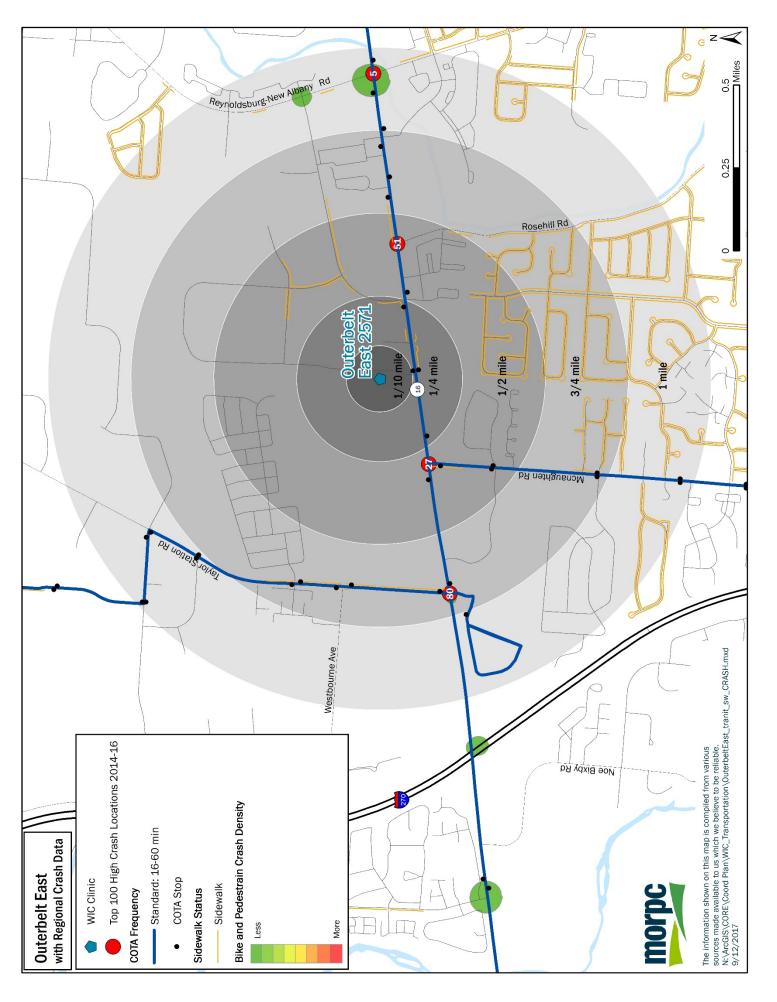
Analysis of Transportation Infrastructure around clinic:

- Sidewalks are well established to the west, but the street network is disconnected, with the natural street grid broken by courts and cul-de-sacs.
- The area around the clinic is mostly big box and auto-centric development.
- The 6th location on the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile of the clinic.
- There are pockets of hot spots for bike and pedestrian crash density within ³/₄ of a mile on SR 161.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₂ and ³/₄ of a mile on Cleveland Ave.

Suggestions:

- It is important to keep this site on Cleveland Ave., because of the coming improvements to transit in this corridor.
- Focus on sidewalk availability along Cleveland Ave.

This clinic had an average 26% no-show rate for the first 9 months of 2017.



Outerbelt East WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	No	Yes	Yes	Yes
COTA Frequent	No	No	No	No
Bus Stop (count)	0	4	5	11
Bus Stop in Front	No			
Bus Lines and Proximity	10 Broad (¼ mile) 25 Brice (½ mile)			
Sidewalk	No	Yes	Yes	Yes
Sidewalk in Front	No			
Multi-use Path	No			
Multi-use Path in Front	No	No	No	No

Address: 79 Outerbelt St, Columbus, OH 43213

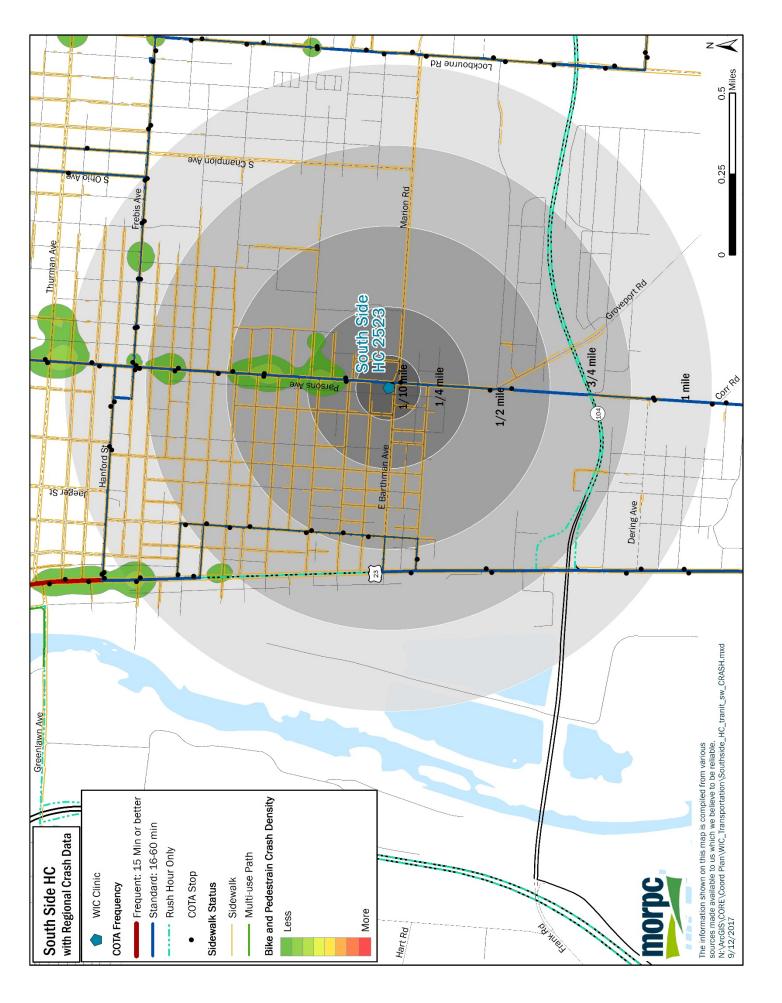
Analysis of Transportation Infrastructure around clinic:

- There are very few sidewalks in the area.
- The closest bus stop is unprotected and on the berm of a culvert.
- The area around the clinic is mostly big box and auto-centric development.
- There is highway access over a mile away.
- The 27th and 51st of the Top 100 High Crash Locations for 2014-16 are within a ¹/₂ mile.
- The 80th of the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile.

Suggestions:

- There are no sidewalks, but because the area is so auto-oriented, it's possible that sidewalks will do little to help.
- Crossing Broad St. at this location would also be very dangerous and difficult due to the high amount of car traffic and how many lanes of traffic there is and how wide the lanes are.
- Look into partnering with Mt. Carmel in that area, as they have a Moms2Be for all site location and it could be a good partnership.
- Relocate clinic to a more pedestrian and transit friendly place.
- Recommend a traffic study of this area and installing a crosswalk and traffic light. It is difficult to turn left onto Outerbelt and cross all the lanes of traffic on Broad St.
- Bus riders have to cross Broad St. with stroller

This clinic had an average 23% no-show rate for the first 9 months of 2017.



Southside HC WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ / ₂ mile	³ ⁄4 mile	
COTA Standard	Yes	Yes	Yes	Yes	
COTA Frequent	No	No	No	No	
Bus Stop (count)	2	2	8	11	
Bus Stop in Front	Yes, 8 Karl South High				
Bus Lines and Proximity		8 Karl South High (1/10 of mile) 4 Indianola Lockbourne (1 mile)			
Sidewalk	Yes	Yes	Yes	Yes	
Sidewalk in Front	Yes				
Multi-use Path	No	No	No	No	
Multi-use Path in Front	No				

Address: 1905 S. Parsons Ave, Columbus, OH 43207

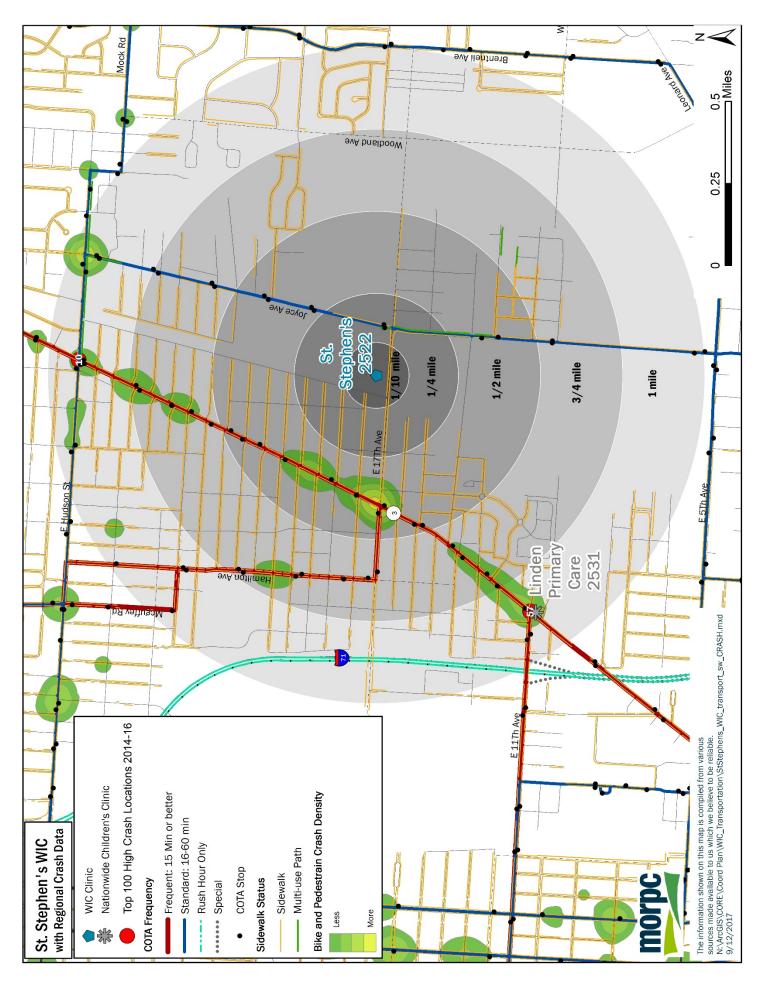
Analysis of Transportation Infrastructure around clinic:

- The neighborhood to the northwest of the clinic has many sidewalks and an urban street grid.
- The area around the clinic is mostly urban development, with street facing, low rise buildings and access to the street.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₄, ¹/₂, and ³/₄ a mile on Parsons Ave.

Suggestions:

- Improve the frequency of the bus to frequent (15 minutes or less) between buses
- Drug use could be a driver for no-shows
- Cost of bus fares could also contribute to no-shows
- The transportation network seems robust, so what else is going on with this population that keeps them from attending appointments? Look at appointment times for no-shows, employment/unemployment rates of clients, and if this population is very mobile or in transition.

This clinic had an average 41% no-show rate for the first 9 months of 2017.



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St. Stephen's WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	No	Yes	Yes	Yes
COTA Frequent	No	No	Yes	Yes
Bus Stop (count)	0	2	16	21
Bus Stop in Front	None			
Bus Lines and Proximity	 11 Bryden Maize (¼ mile) 6 Cleveland Sullivant (½ mile) 8 Karl South High (¾ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	Yes	Yes	Yes
Multi-use Path in Front	No			

Address: 1500 E. 17th Ave, Columbus, OH 43219

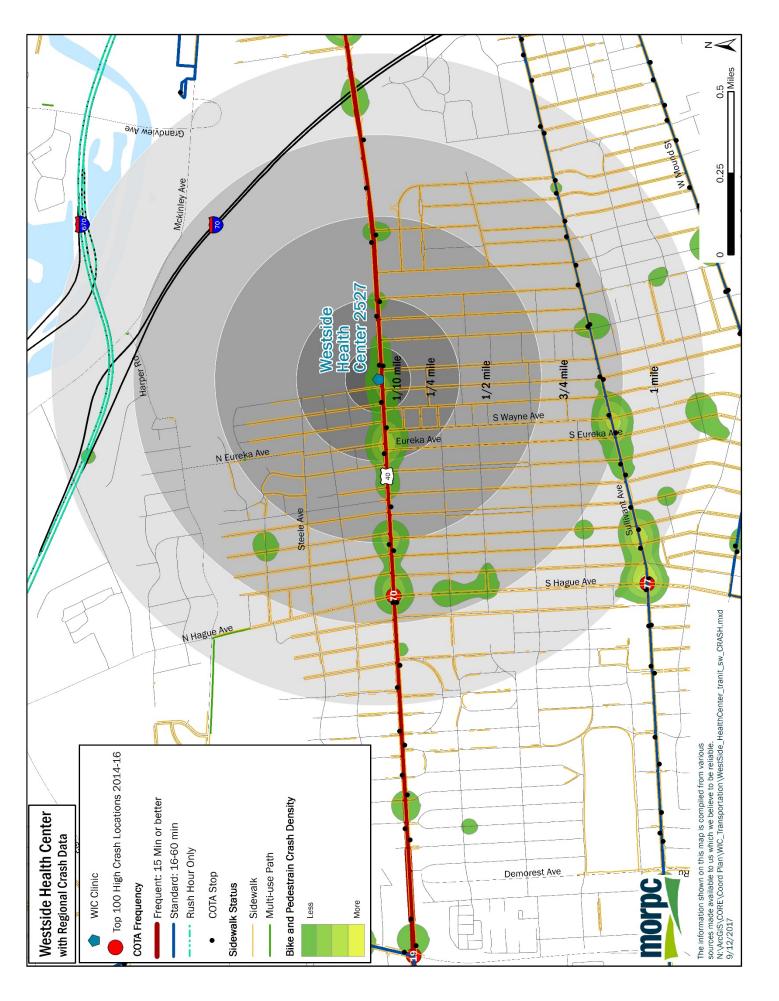
Analysis of Transportation Infrastructure around clinic:

- There are very few sidewalks running north in the area.
- There is a stretch of multi-use path nearby.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₂ and ³/₄ of a mile on Cleveland Ave.
- The 10th and 57th of the Top 100 High Crash Locations for 2014-16 are within 1 mile.

Suggestions:

- Increase the amount of sidewalks that run north and south
- Traveling/crossing the street at 17th and Cleveland Ave. is very dangerous. Infrastructure to improve safety outcomes should be installed to decrease crash density.
- There is limited lighting in this area, which could make later appointments, especially in darker months, feel less safe.
- Cost of bus fares could also contribute to no-shows
- Think about relocating the clinic to Cleveland Ave., or transferring clients to the Linden Primary Care Nationwide Children's Clinic one mile south on Cleveland Ave.

This clinic had an average 34% no-show rate for the first 9 months of 2017.



Westside Health Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ / ₂ mile	³ ⁄4 mile
COTA Standard	No	No	No	Yes
COTA Frequent	Yes	Yes	Yes	Yes
Bus Stop (count)	3	4	3	6
Bus Stop in Front	Not directly in front, 10 Broad 6 Cleveland Sullivant			
Bus Lines and Proximity	10 Broad (1	/10 of mile)		
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No			
Multi-use Path in Front	No	No	No	No

Address: 2300 W. Broad St, Columbus, OH 43204

Analysis of Transportation Infrastructure around clinic:

- There are sidewalks along Broad St and running north-south in the residential neighborhood around the clinic.
- The area around the clinic is mostly urban development, with street facing, low rise buildings and access to the street.
- There is highway access is within 1 mile.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₄, ¹/₂, and ³/₄ of a mile on Broad St.
- The 70th of the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile.

Suggestions:

- Work to reduce/eliminate crash density (transportation infrastructure improvements)
- Building vacancy: many vacant and closed businesses on Broad traveling west, making it not very pedestrian friendly
- No shows due to undocumented status, or their drivers might be fearful to drive, fear of ICE
- Moms2B clients who live/stay at Van Buren homeless shelter report not attending WIC appointments because they are not allowed to bring food into the shelter and do not see a value in WIC appointments when they can't keep the food
- The transportation network seems robust, so what else is going on with this population that keeps them from attending appointments? Look at appointment times for no-shows, employment/unemployment rates of clients, and if this population is very mobile or in transition.

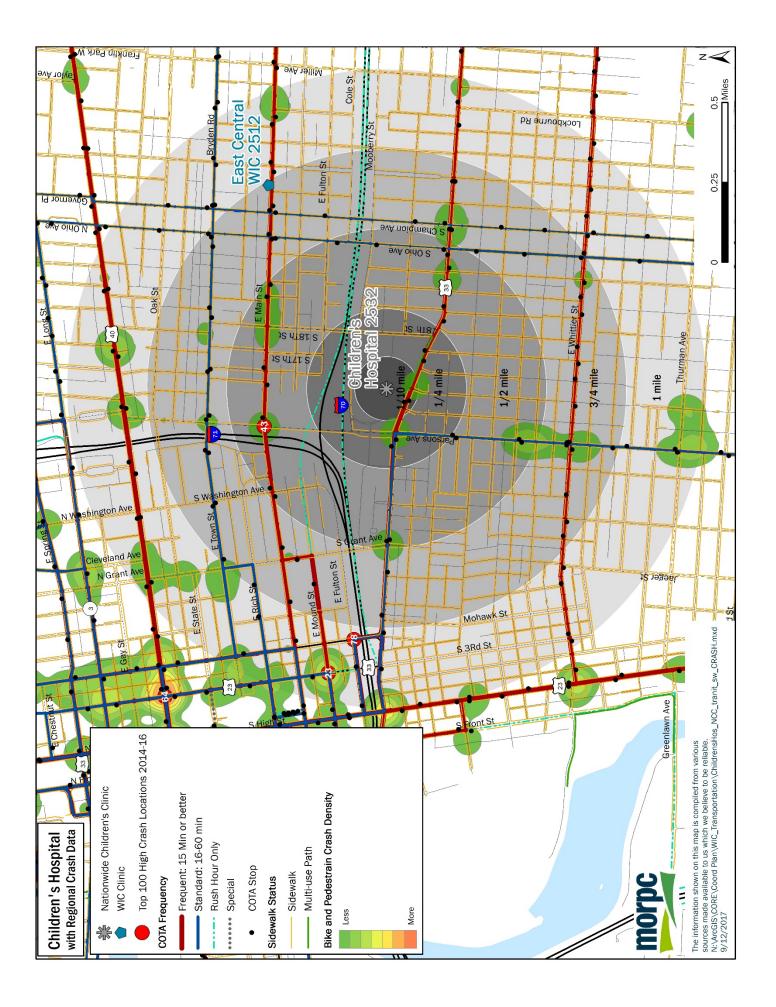
This clinic had an average 38% no-show rate for the first 9 months of 2017.

Nationwide Children's WIC Clinic Site Analysis Nationwide Children's Hospital Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ / ₂ mile	³ ⁄4 mile
COTA Standard	No	Yes	Yes	Yes
COTA Frequent	Yes	Yes	Yes	Yes
Bus Stop (count)	2	2	20	52
Bus Stop in Front	Yes, 1 Kenny Livingston			
Bus Lines and Proximity	 1 Kenny Livingston (1/10 mile) 4 Indianola Lockbourne (¼ mile) 2 East Main North High (½ mile) 22 S Ohio Ave (½ mile) 5 West Fifth Refugee (¾ mile) 11 Bryden Maize (¾ mile) 22 S Champion Ave (¾ mile) 6 Cleveland Sullivant (¾ mile) 7 Mount Vernon (¾ mile) 51 Reynoldsburg to Downtown (¾ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	Yes	Yes	No	No
Multi-use Path in Front	Yes, but lim	ited		

Address: 700 Children's Way, Columbus, OH 43205

- Sidewalks exist in the immediate vicinity of the clinic but are missing from many of the housing areas in the general area.
- There is a larger gridded street network surrounding the clinic, but it is divided from the neighborhood to the north by a highway.
- There is easy highway access.
- The 43rd location on the Top 100 High Crash Locations for 2014-16 is within ¹/₂ mile of the clinic.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₁₀, ¹/₄, ¹/₂, and ³/₄ of a mile on Livingston Ave.
- There are pockets of hot spots for bike and pedestrian crash density within ½ of a mile on Main St.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₂ and ³/₄ of a mile on Parsons Ave.

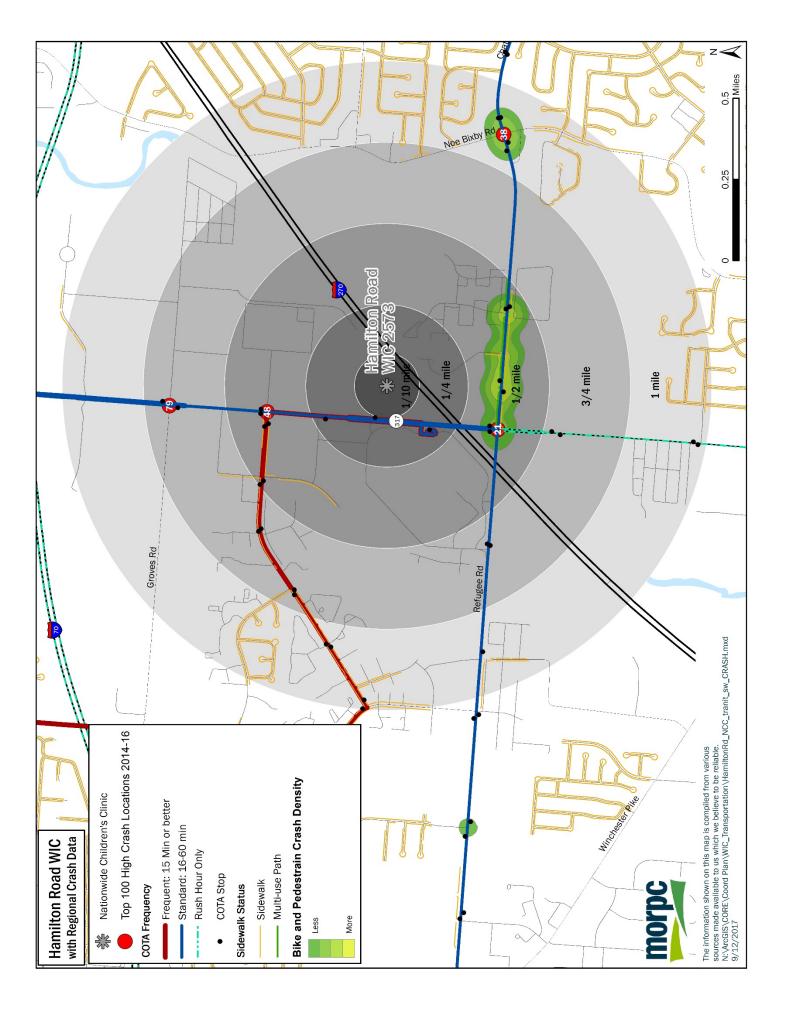


Hamilton Road WIC Clinic

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	No	Yes	Yes	Yes
COTA Frequent	No	Yes	Yes	Yes
Bus Stop (count)	0	3	12	10
Bus Stop in Front	None			
Bus Lines and Proximity	 23 James Stelzer (¼ mile) 24 Hamilton (¼ mile) 5 West Fifth Refugee (½ mile) 			
Sidewalk	No	No	Yes	Yes
Sidewalk in Front	None			
Multi-use Path	No	No	Yes	No
Multi-use Path in Front	None			

Address: 4434 Crossroads Ctr., Columbus, OH 43232

- Sidewalks do not exist in the immediate vicinity of the clinic and are missing from many of the housing areas in the general area.
- The multi-use path that exists is limited and does not connect to anything.
- The area around the clinic is mostly big box and auto-centric development.
- The 21st and 48th locations on the Top 100 High Crash Locations for 2014-16 is within ½ mile of the clinic.
- The 79th location on the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile of the clinic.
- There are pockets of hot spots for bike and pedestrian crash density within ¹/₂ of a mile on Refugee Rd.

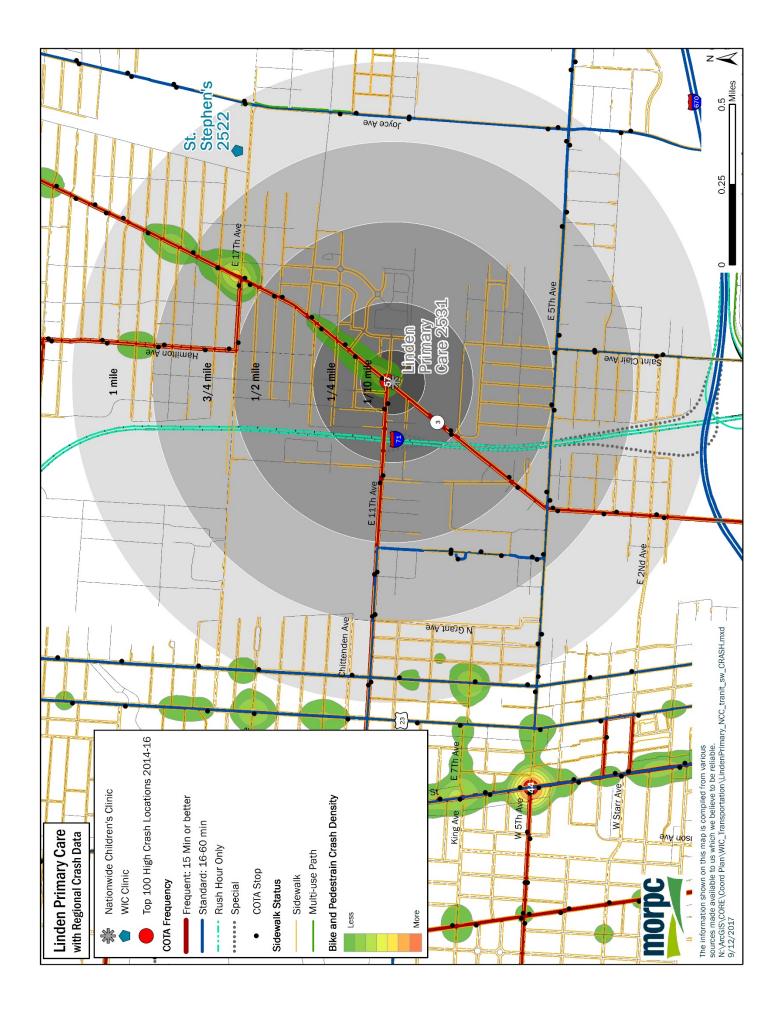


Linden Primary Care

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile
COTA Standard	No	No	No	Yes
COTA Frequent	Yes	Yes	Yes	Yes
Bus Stop (count)	3	4	8	32
Bus Stop in Front	Yes, 6 Cleveland Sullivant			
Bus Lines and Proximity	 6 Cleveland Sullivant (1/10 mile) 8 Karl South High (1/10 mile) 9 West Mound Brentnell (¾ mile) 22 OSU Rickenbacker (¾ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	No	No	No
Multi-use Path in Front	None			

Address: 1390 Cleveland Ave, Columbus, OH 43211

- The sidewalk is incomplete.
- There is easy highway access.
- The clinic is adjacent to the North Linden Transit Center.
- The 57th location on the Top 100 High Crash Locations for 2014-16 is at the intersection where the clinic is located.
- There are pockets of hot spots for bike and pedestrian crash density within 1/10, 1/4, 1/2, and 3/4 of a mile on Cleveland Ave.

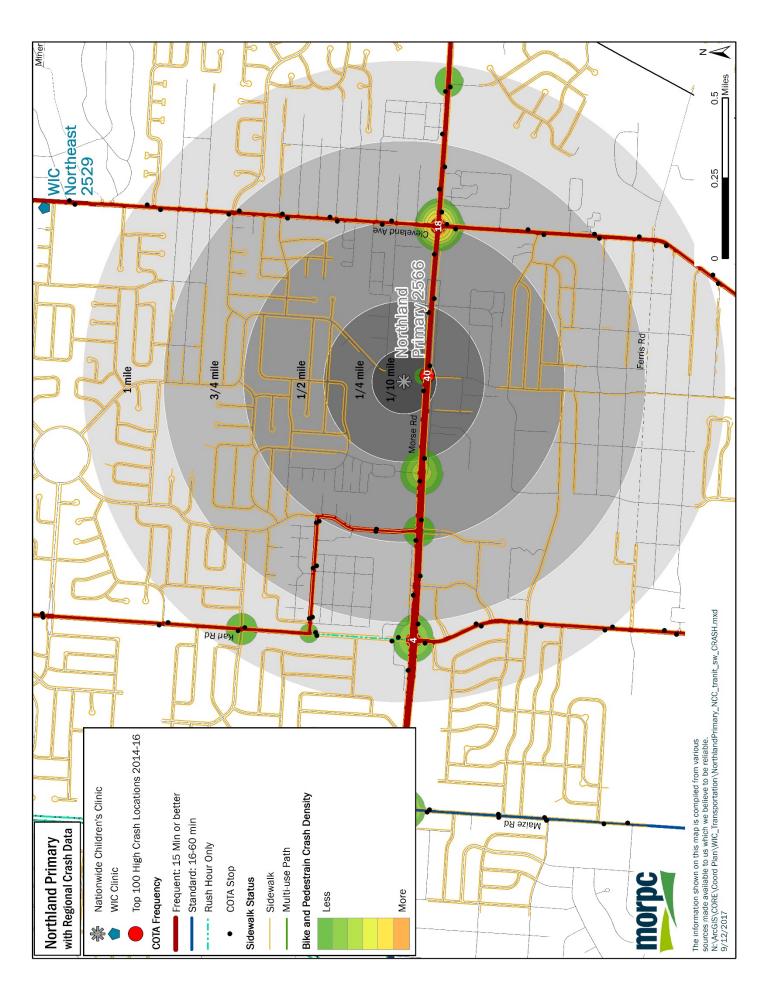


Northland Primary

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile	
COTA Standard	No	No	No	No	
COTA Frequent	Yes	Yes	Yes	Yes	
Bus Stop (count)	2	2	7	21	
Bus Stop in Front	Yes, 34 Morse				
Bus Lines and Proximity	 34 Morse (1/10 mile) 6 Cleveland Sullivant (½ mile) 8 Karl South (½ mile) 42 Sharon Woods (1 mile) 				
Sidewalk	Yes	Yes	Yes	Yes	
Sidewalk in Front	None				
Multi-use Path	No	No	No	No	
Multi-use Path in Front	None				

Address: 4560 Morse Centre, Columbus, OH 43229

- The sidewalk is incomplete.
- The area around the clinic is mostly big box and auto-centric development.
- Sidewalks are well established to the north and west in residential areas, but the street network is disconnected, with the natural street grid broken by courts and cul-de-sacs.
- The clinic is served by frequent transit service, but crossing Morse Rd could be dangerous, as it is divided at the clinic.
- The 40th location on the Top 100 High Crash Locations for 2014-16 is located in front of the strip center where this clinic is located.
- The 18th location on the Top 100 High Crash Locations for 2014-16 is ½ mile from the clinic.
- There are pockets of hot spots for bike and pedestrian crash density within 1/10, ¼, ½, and ¾ of a mile on Morse Rd, and is especially dense in the location of the 18th Top 100 High Crash Location at Morse Rd and Cleveland Ave.

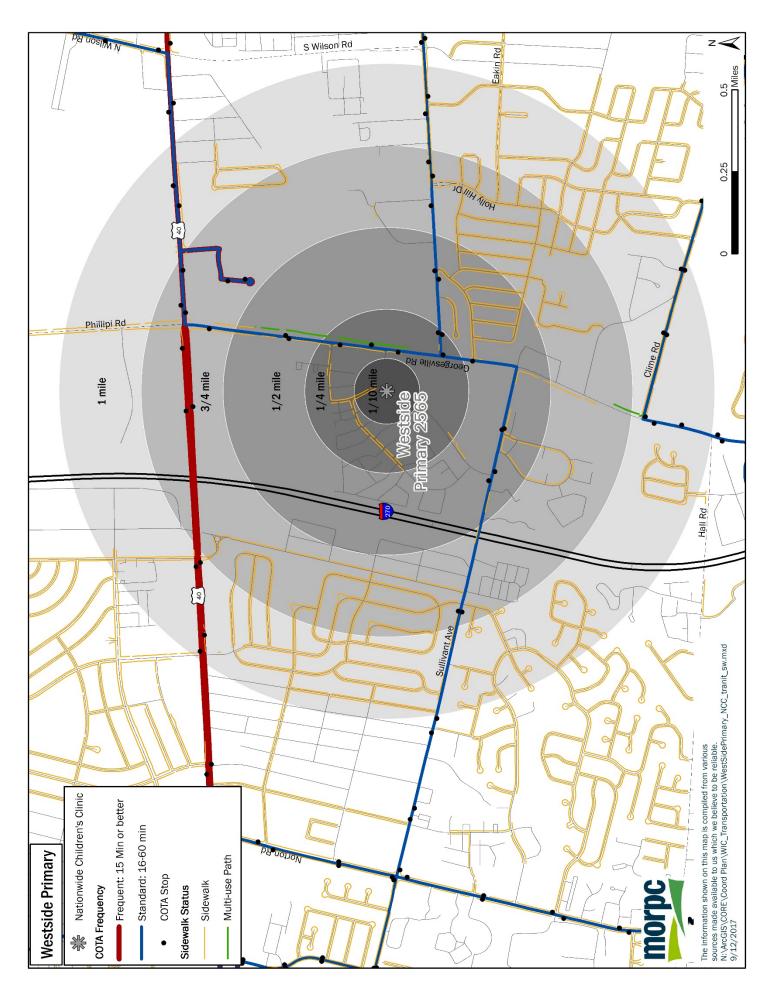


Westside Primary

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ /2 mile	³ ⁄4 mile	
COTA Standard	No	Yes	Yes	Yes	
COTA Frequent	No	No	No	Yes	
Bus Stop (count)	0	6	9	14	
Bus Stop in Front	None				
Bus Lines and Proximity	 6 Cleveland Sullivant (¼ mile) 21 Hilliard Rome (¼ mile) 5 West Fifth (¾ mile) 10 Broad (¾ mile) 				
Sidewalk	Yes	Yes	Yes	Yes	
Sidewalk in Front	Yes				
Multi-use Path	No	Yes	Yes	Yes	
Multi-use Path in Front	None				

Address: 441 Industrial Mile, Columbus, OH 43228

- The sidewalk network is incomplete.
- The area around the clinic is mostly big box and auto-centric development.
- Sidewalks are well established to the west and southeast in residential areas, but the street network is disconnected, with the natural street grid broken by courts and cul-de-sacs.
- There are multi-use paths along Georgesville Rd, but they are not continuous.
- There are pockets of hot spots for bike and pedestrian crash density at the location of the clinic and in pockets along Sullivant Ave within ½ of a mile.
- The 62nd of the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile.



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Whitehall Primary

Infrastructure Around Clinic	1/10 mile	¹ ⁄4 mile	¹ ⁄2 mile	³ ⁄4 mile
COTA Standard	No	No	No	Yes
COTA Frequent	No	No	Yes	Yes
Bus Stop (count)	0	0	4	22
Bus Stop in Front	None			
Bus Lines and Proximity	 2 East Main (½ mile) 24 Hamilton (¾ mile) 			
Sidewalk	Yes	Yes	Yes	Yes
Sidewalk in Front	Yes			
Multi-use Path	No	No	No	No
Multi-use Path in Front	None			

Address: 561 S. Yearling Rd, Columbus, OH 43213

- Sidewalks are well established, but the street network is disconnected, with the natural street grid broken by courts and cul-de-sacs.
- The 29th location on the Top 100 High Crash Locations for 2014-16 is within ³/₄ mile of the clinic.
- There are pockets of hot spots for bike and pedestrian crash density at the location of the clinic and in pockets along Yearling Rd within ¹/₂ of a mile.

