

# Circulation

## LOCAL TRAVEL

A diagrammatic analysis of various transit and circulation systems moving into and through the city of Philadelphia, presented in various scales. At the regional and city scales, major highways and mass transit rail systems define approach and entrance into the city, while major roadways, rail systems, bus and trolley systems, as well as pedestrian transit describe movement within Philadelphia at the Powelton Village neighborhood and site scales.

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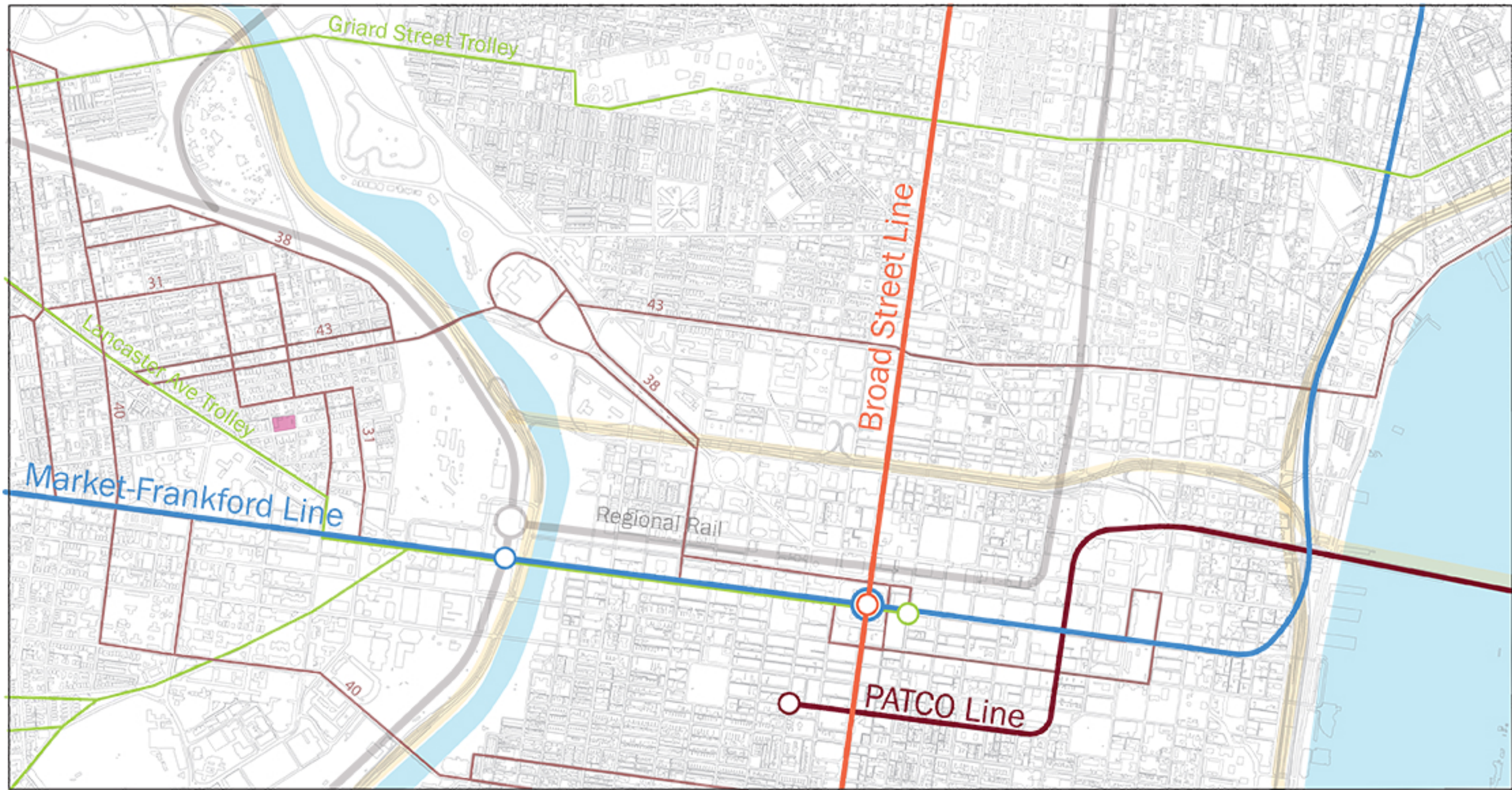
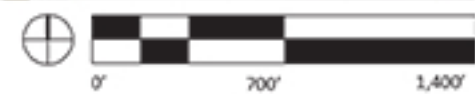
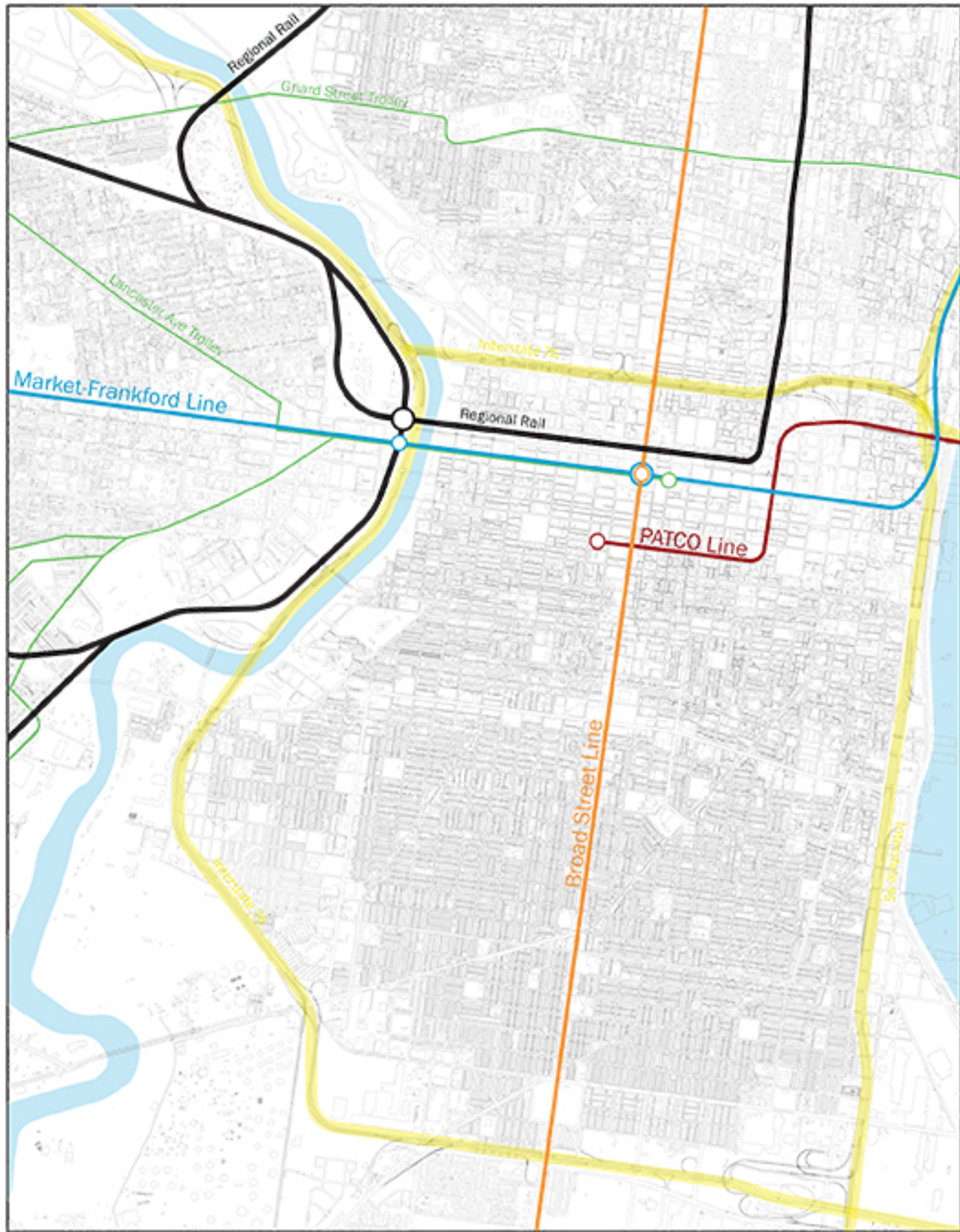


FIGURE 1 Interconnection of Circulation - Scale of City

FIGURE 1  
The map is displaying how circulation routes local to the site are connected to the larger city wide circulation network. This shows how travel is facilitated between Powelton, University City, and Center City.





Circulation - Scale of City FIGURE 2



Regional Rail lines - Scale of Region FIGURE 3

**FIGURE 3**  
Study of SEPTA's regional rail system. How it is centralized around the Philadelphia area and how it reaches out across three states.



Regional Highways - Scale of Region FIGURE 4

**FIGURE 4**  
Mapping of the major routes and highways that create a ring around and through the Philadelphia city limits.

**FIGURE 2**  
Map displaying how the major rivers act as barriers that major circulation routes must pass over or flow with. Also notice how major circulation hubs are concentrated in the Center City area.



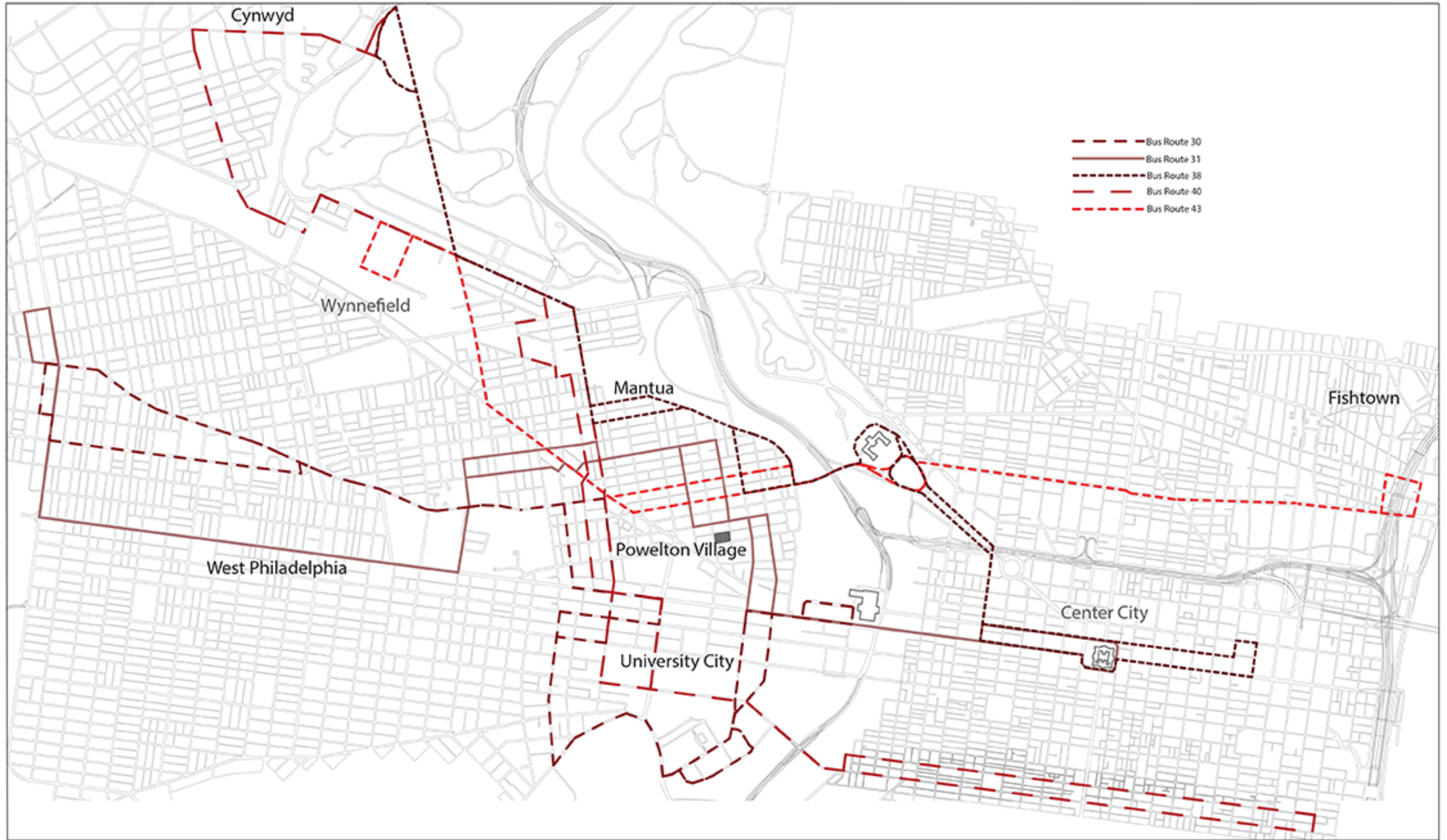
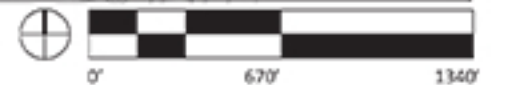


FIGURE 5 Bus Circulation - Scale of City

FIGURE 5

A partial analysis of Philadelphia's bus routes, including origins and destinations. The building site is shaded with a light gray in Powelton Village.



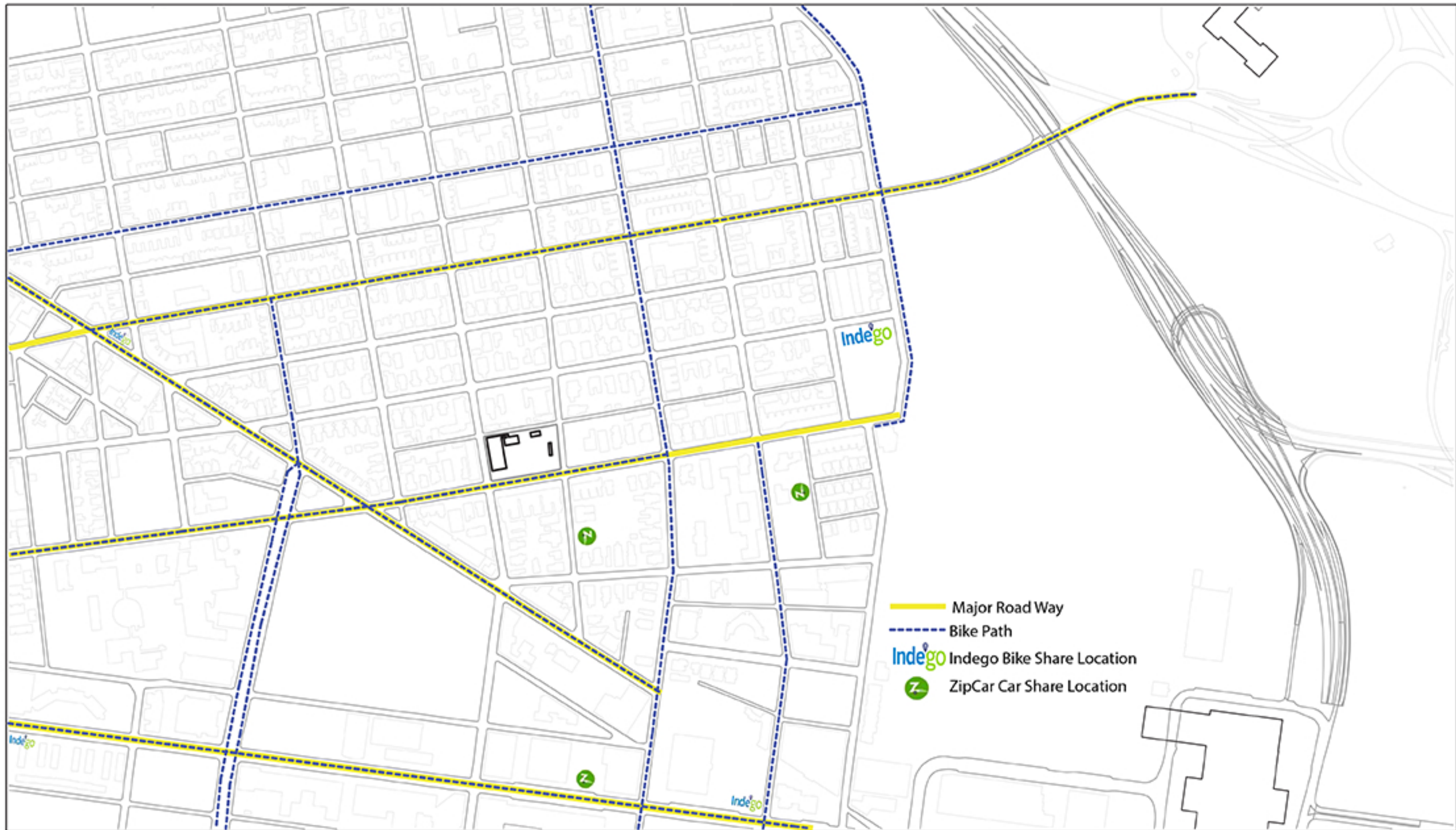


FIGURE 6 Bike & Vehicular Circulation - Scale of Neighborhood

FIGURE 6  
An analysis of major roadways, dedicated bike lanes, and transportation sharing locations within and around Powelton Village.



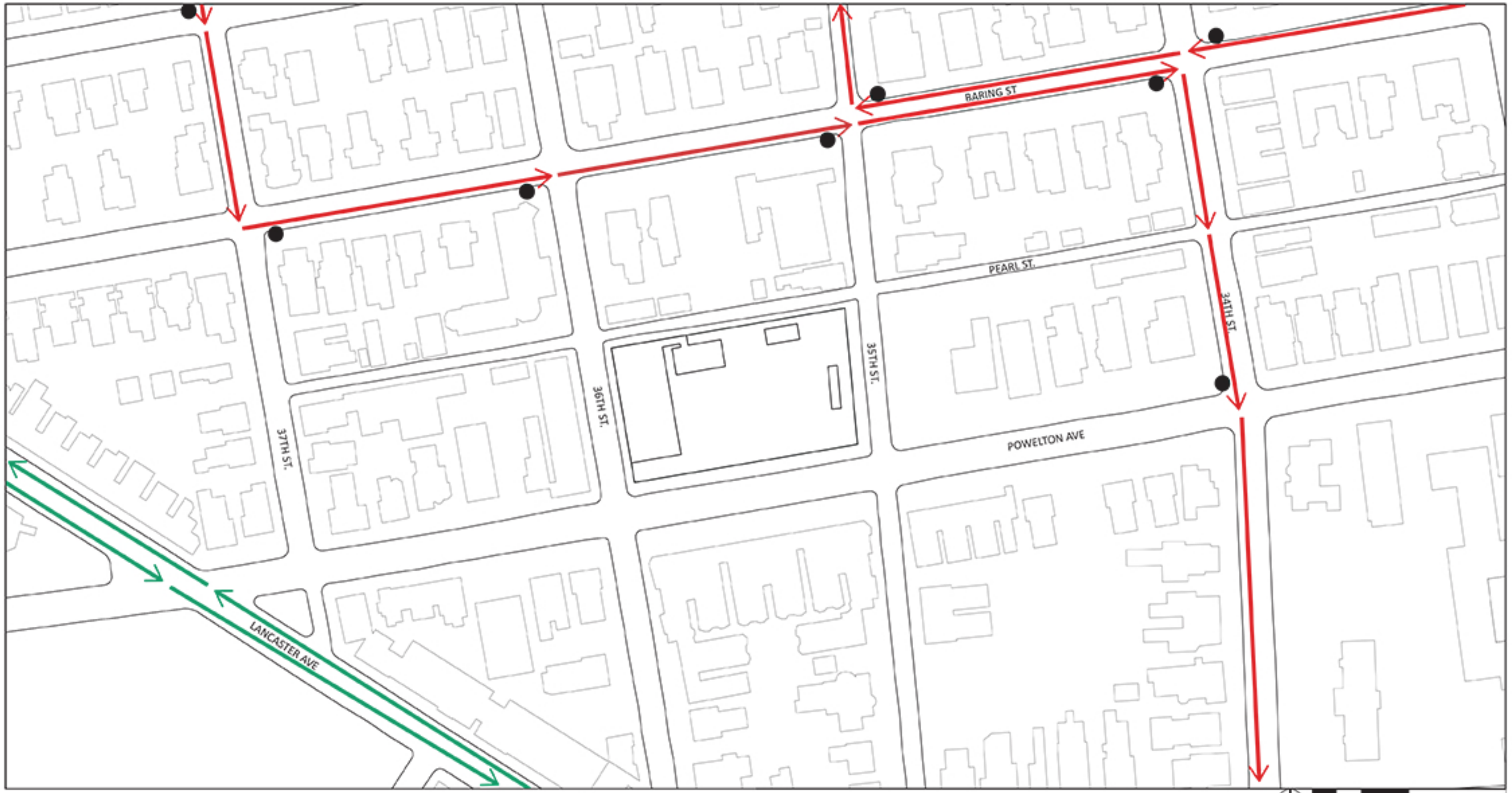


FIGURE 7 Public Vehicular Transit - Scale of Site

- KEY**
- Route 31 Bus
  - Bus Stop
  - Route 10 Trolley

FIGURE 7 A mapping of public transit systems and their proximity to our building site.



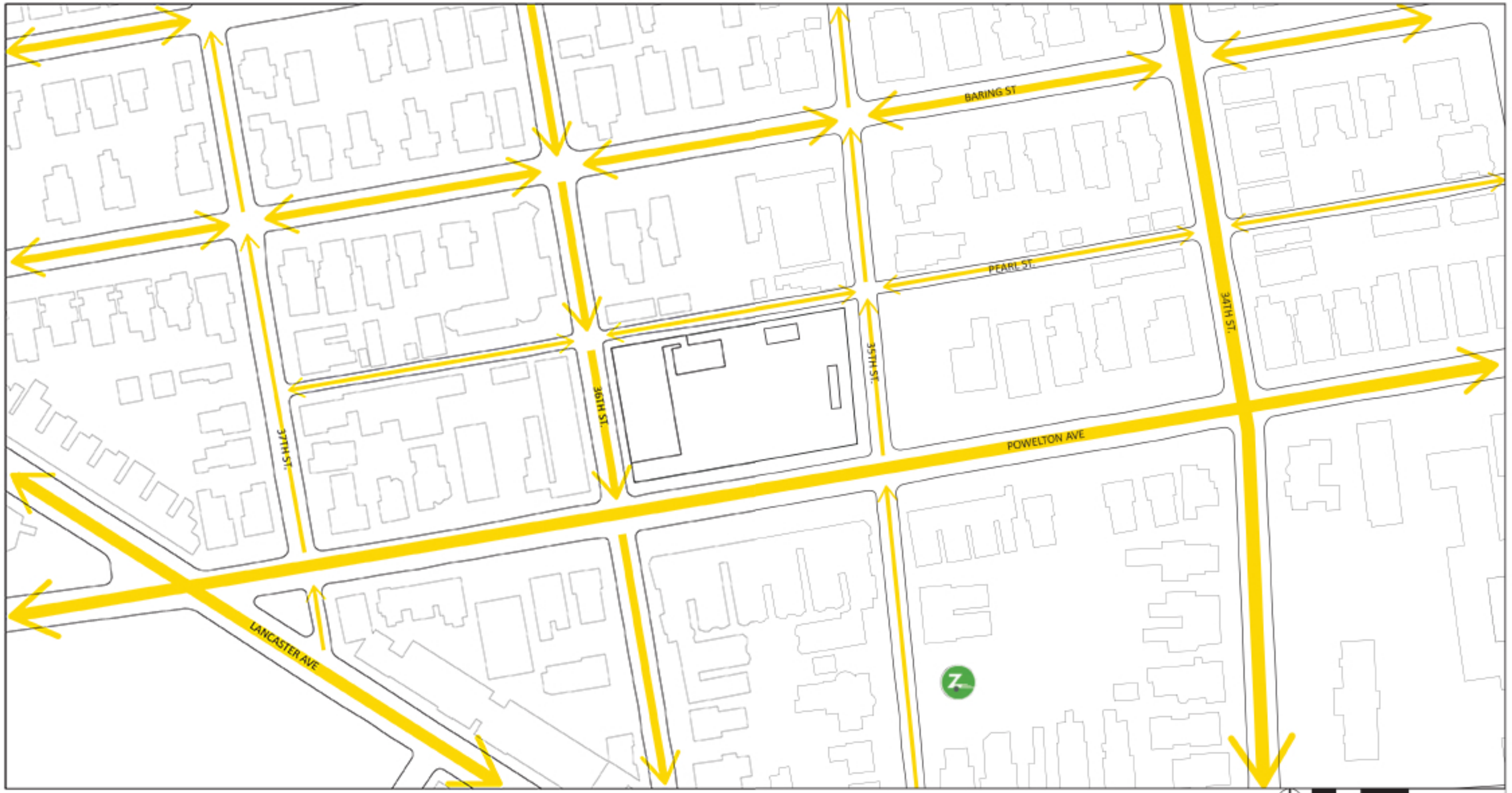


FIGURE 8 Private Vehicular Transit - Scale of Site

**KEY**  
 Private Vehicle Movement, Density, & Direction  
 Zipcar Share Location

FIGURE 8 Heavier line weights correspond with busier streets and vice-versa. Traffic direction is denoted with arrows. Also notated is a car share location that is situated less than a block from our site.





FIGURE 9 Parking Conditions - Scale of Site

**KEY**  
 Unrestricted Parking  
 Metered Parking  
 Permit Parking

FIGURE 9 Types of parking and their locations are noted above, directly influencing the vehicular and pedestrian movement throughout the site.





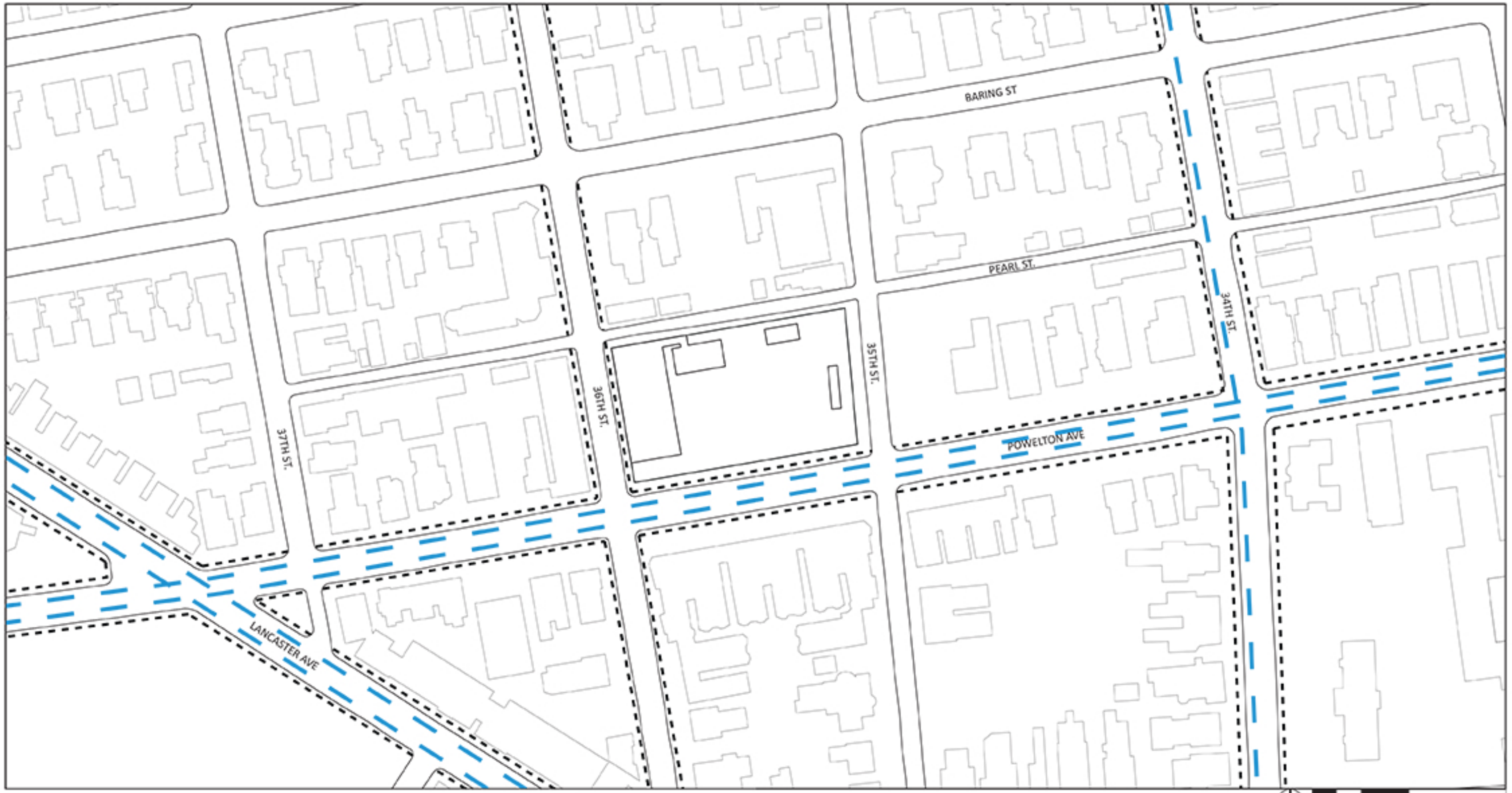


FIGURE 10 Pedestrian Transit - Scale of Site

**KEY**  
 - - - Heavy Foot Traffic  
 - - - Dedicated Bike Lanes

FIGURE 10  
 Displayed is the location of dedicated bike lanes on surrounding streets, as well as streets that have the heaviest foot traffic in the area.

## REFERENCES

01\_Brown & Keener Urban Design, Urban Partners, and Orth-Rodgers & Associates. Powelton Village Directions: 2011 Neighborhood Plan. Master Plan. N.p.: Powelton Village Civic Association, n.d. Print.

02\_Google Images.

03\_ "SEPTA | Southeastern Pennsylvania Transportation Authority." SEPTA | Southeastern Pennsylvania Transportation Authority. N.p., n.d. Web. 23 Jan. 2016.