

# Montgomery County Department of Transportation Wheaton Redevelopment



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## Agenda

1. Review of Previous Studies
2. Ongoing Area Projects
3. Reddie Drive Improvements
4. Grandview Avenue Improvements
5. Triangle Lane Improvements
6. Improvements at Signalized Intersections
7. Q & A

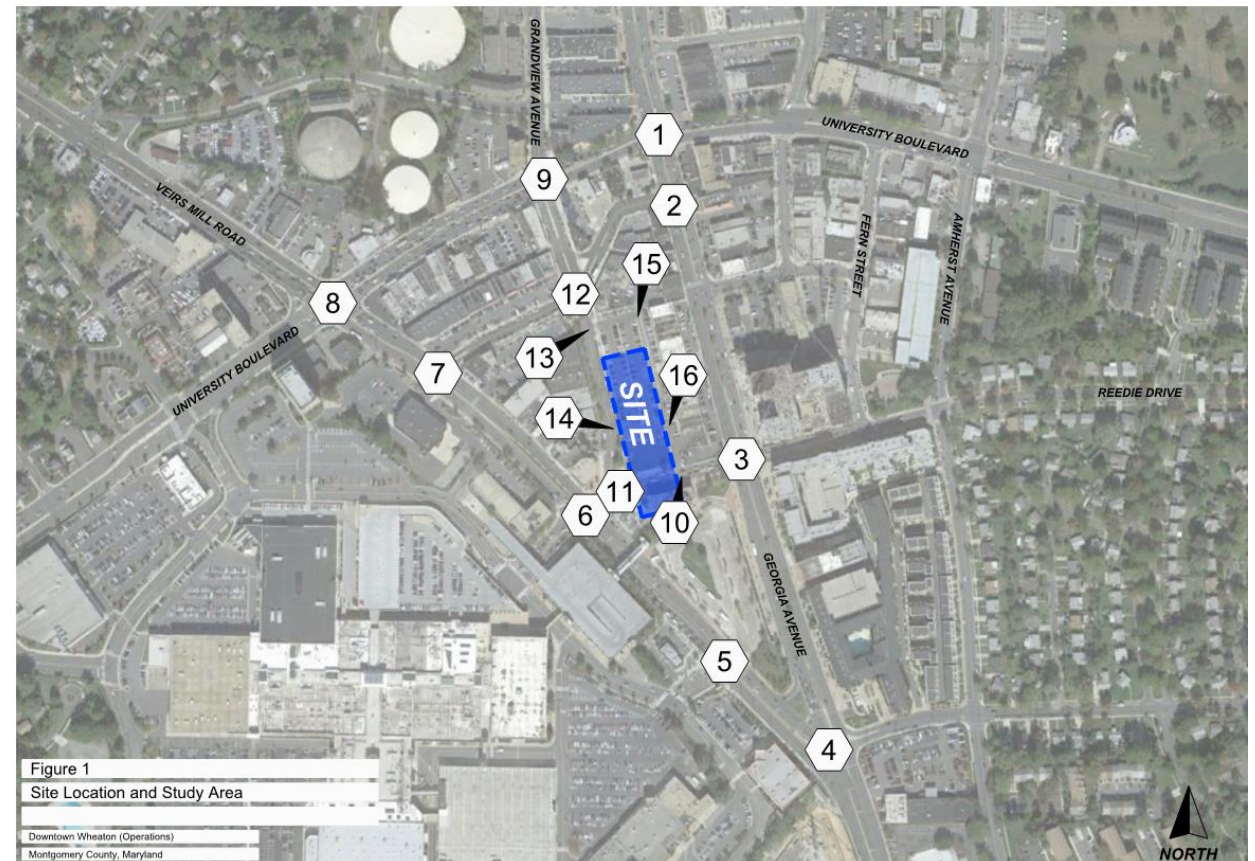




# Montgomery County Department of Transportation Wheaton Redevelopment

## 2015 Traffic Study - Project Scope

- Traffic Impact Study conducted in April 2015
- Proposed site includes office building and ground floor retail
  - 265,000 SF of Office
  - 12,000 SF of Retail
- Existing traffic counts conducted in January 2015



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## 2015 Study Results

- Results at signalized intersections similar for the future condition scenario
- Follow-Up study conducted in November 2015
  - Pedestrian Initiative Timings implemented
  - Adjustments made to improve future LOS at:
    - MD 97 at MD 193
    - Grandview Ave at MD 193

Overall Level of Service Summary				
Intersection	Peak Hour	Existing 2015	Future	Updated Future
MD 586 at MD 193	AM	E	E	E
	PM	E	F	E
Grandview Ave at MD 193	AM	B	C	C
	PM	B	C	D
MD 97 at MD 193	AM	D	D	D
	PM	D	E	D
MD 586 at Reedie Dr	AM	D	D	C
	PM	D	D	C
MD 97 at Reedie Dr	AM	B	A	B
	PM	C	C	C

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## 2017 Study Capacity Results

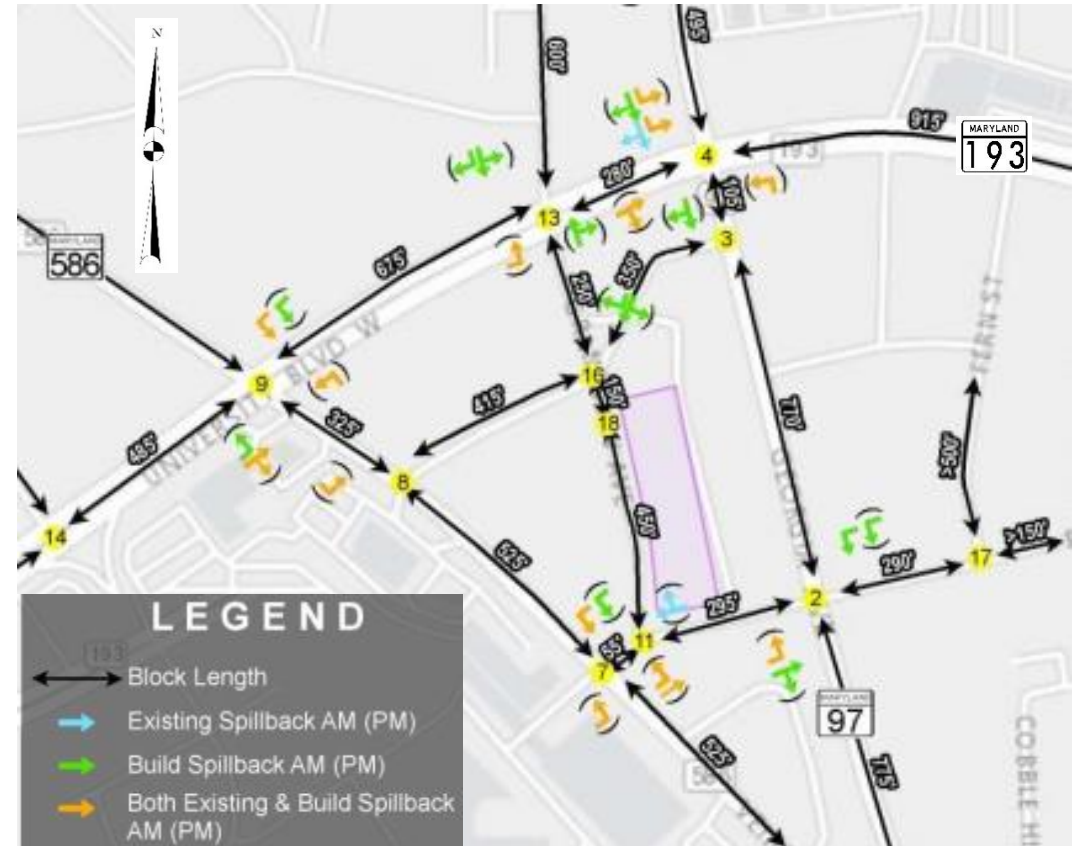
- New Traffic Impact Study conducted due to change in proposed development
  - 308,200 SF of Office
  - 11,800 SF of Retail
- Updated counts conducted in 2017 at all intersections except:
  - MD 97 at MD 193
  - MD 586 at Reddie Drive
- Future analysis assumed realignment of Grandview Avenue at Reddie Drive intersection

Updated Overall Level of Service Summary			
Intersection	Peak Hour	Existing 2017	Future 2018
MD 586 at MD 193	AM	E	E
	PM	D	E
Grandview Ave at MD 193	AM	B	B
	PM	B	C
MD 97 at MD 193	AM	C	C
	PM	C	C
MD 586 at Reddie Dr	AM	B	B
	PM	C	C
MD 97 at Reddie Dr	AM	B	B
	PM	B	B

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## 2017 Study 95<sup>th</sup>% Queue Results

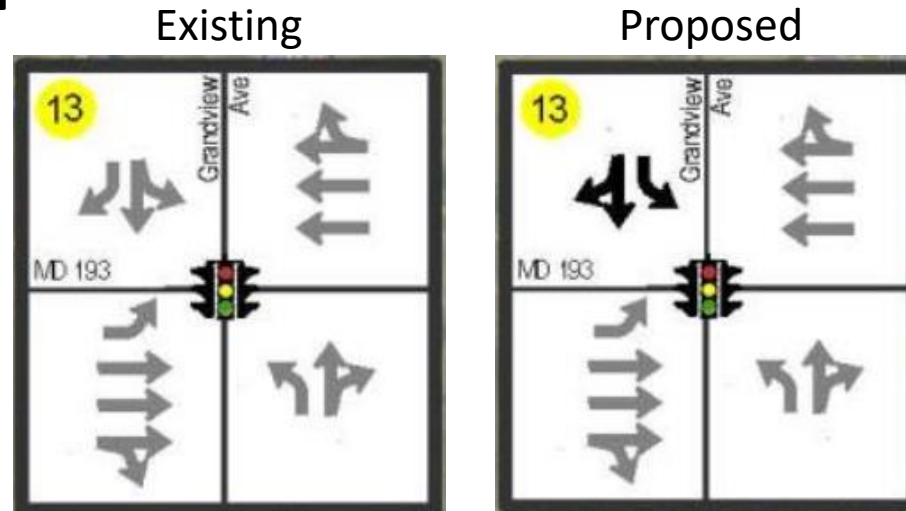
- Critical movements with less than 300 feet of spacing and did not spill back under existing conditions but do under future conditions:
  - Westbound Left from Reddie Dr. onto MD 97 (AM and PM)
  - Westbound Left from Reddie Dr/Grandview Avenue onto MD 586 (PM)
  - Northbound Grandview Avenue Through-Right at MD 193 (PM)



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## 2017 Study Recommendations

- Exclusive/permissive left turn phasing for:
  - Reddie Drive/Grandview Avenue at MD 586; **Requires Reconstruction of Traffic Signal**
  - Grandview Avenue at MD 193; **Implemented 2018**
- Restripe the southbound approach of Grandview Avenue at MD 193 to a left and a shared through-right; **Implemented 2018**

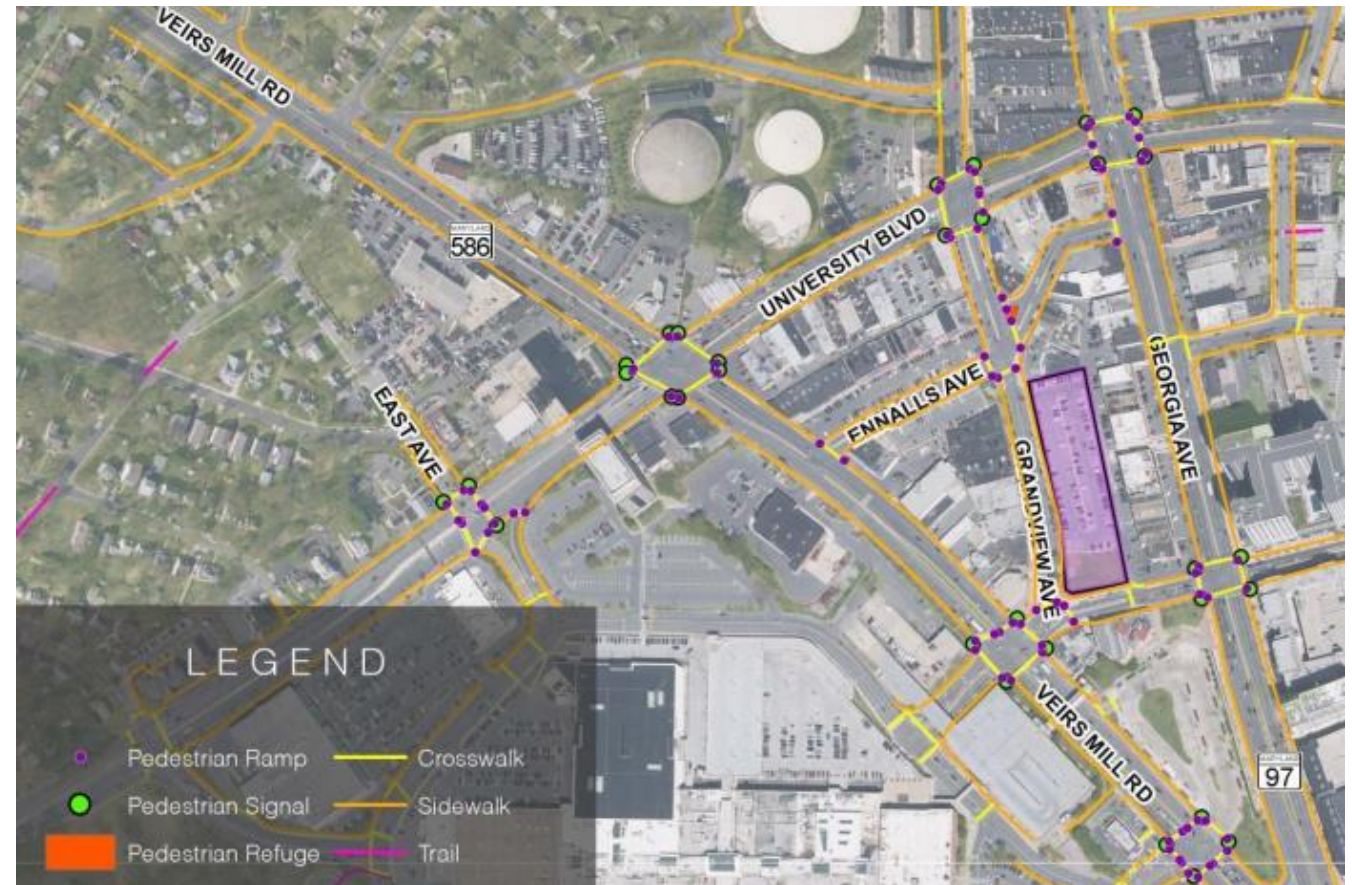




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## Existing Ped/Bike Connectivity

- Sidewalk is available on both sides of each roadway within the study area
- Each study intersection has sidewalk ramps at each corner
- No bike facilities are provided within the study area





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## Wheaton Redevelopment

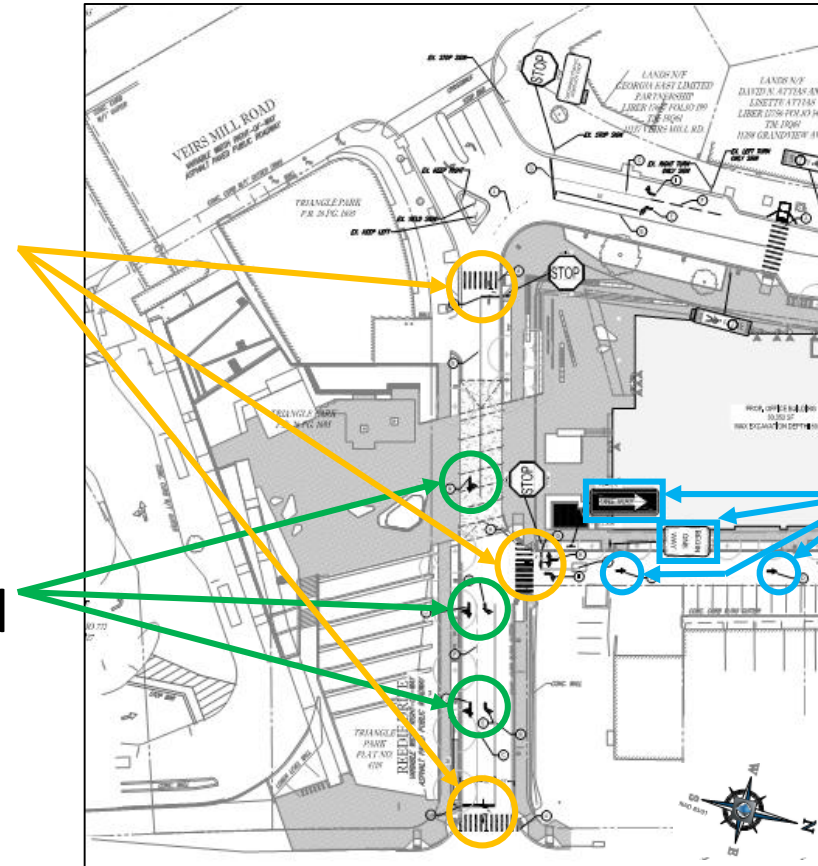
### Ongoing Area Projects

- Restriping of southbound lane use of Grandview Avenue at MD 193 to an exclusive left turn lane and a shared through right lane. Exclusive/permissive left turn phasing for north- and southbound Grandview Avenue also implemented – *Complete*
- Curb markings along MD 97 between Reddie Drive and Price Avenue – *Complete*
- Non-traversable median along MD 97 between Reddie Drive and Price Avenue – *Construction Imminent*
- Lane narrowing along MD 97 between MD 193 and Reddie Drive – *Complete*
- Reduction in speed limit along MD 97 between MD 193 and Reddie Drive – *Imminent*

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## Reedie Drive Improvements

- New crosswalks and stop bars across Reedie Drive and Triangle Lane
- Lane Use Markings to be installed along Eastbound Reedie Drive

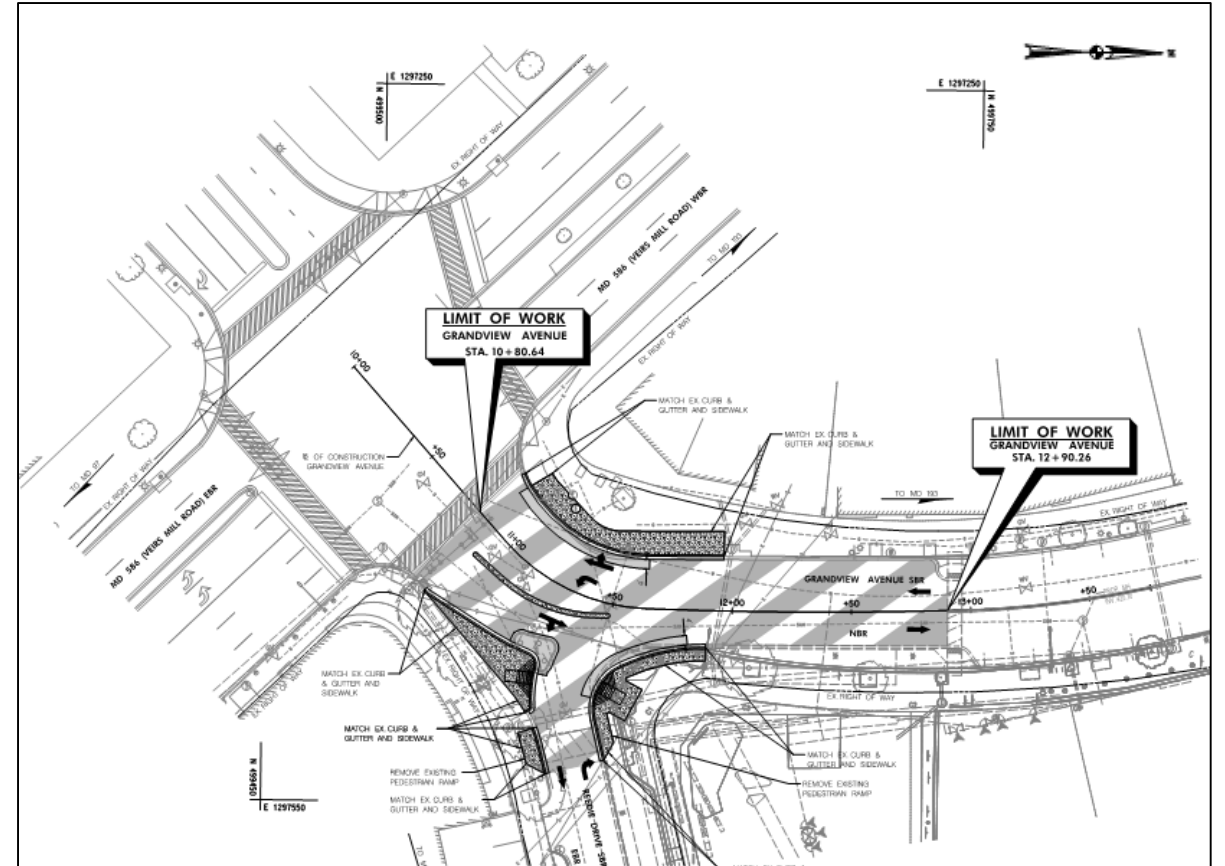


- Pavement Markings and Signage associated with one-way Triangle Lane

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## Reedie Drive at Grandview Avenue Improvements

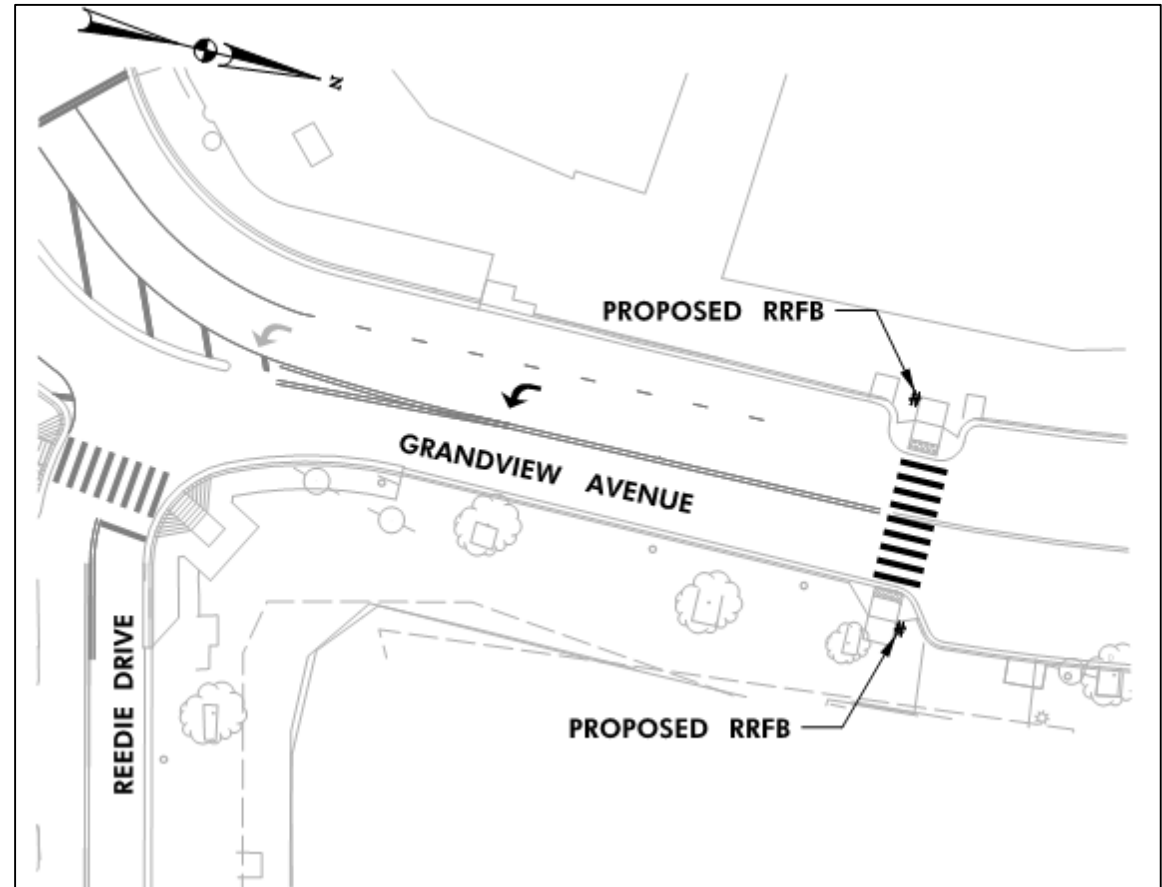
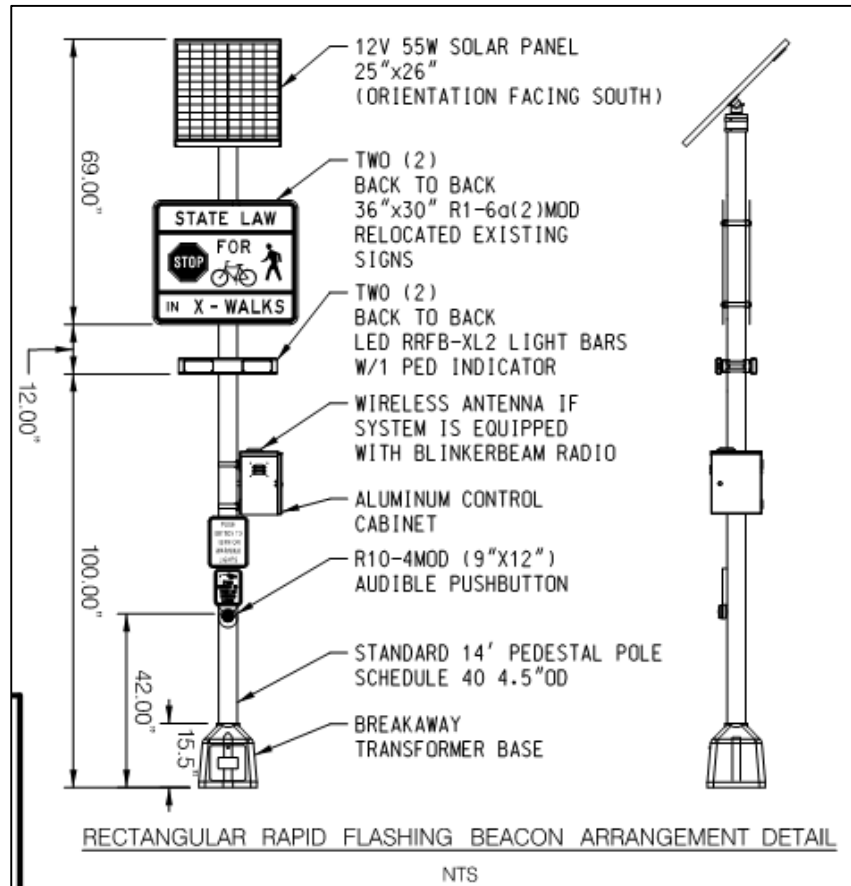
- Realign Grandview Avenue as the main street at Reedie Drive, removing the existing stop sign on Grandview Avenue
- Restripe the Grandview Avenue approach at MD 586 from the existing three lanes to two lanes (one left turn lane and one shared through/right turn lane)
- Install midblock crosswalk on Grandview Avenue and install Rectangular Rapid Flashing Beacon (RRFB) and associated signing at midblock crosswalk





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## Grandview Avenue Proposed RRFB Improvement

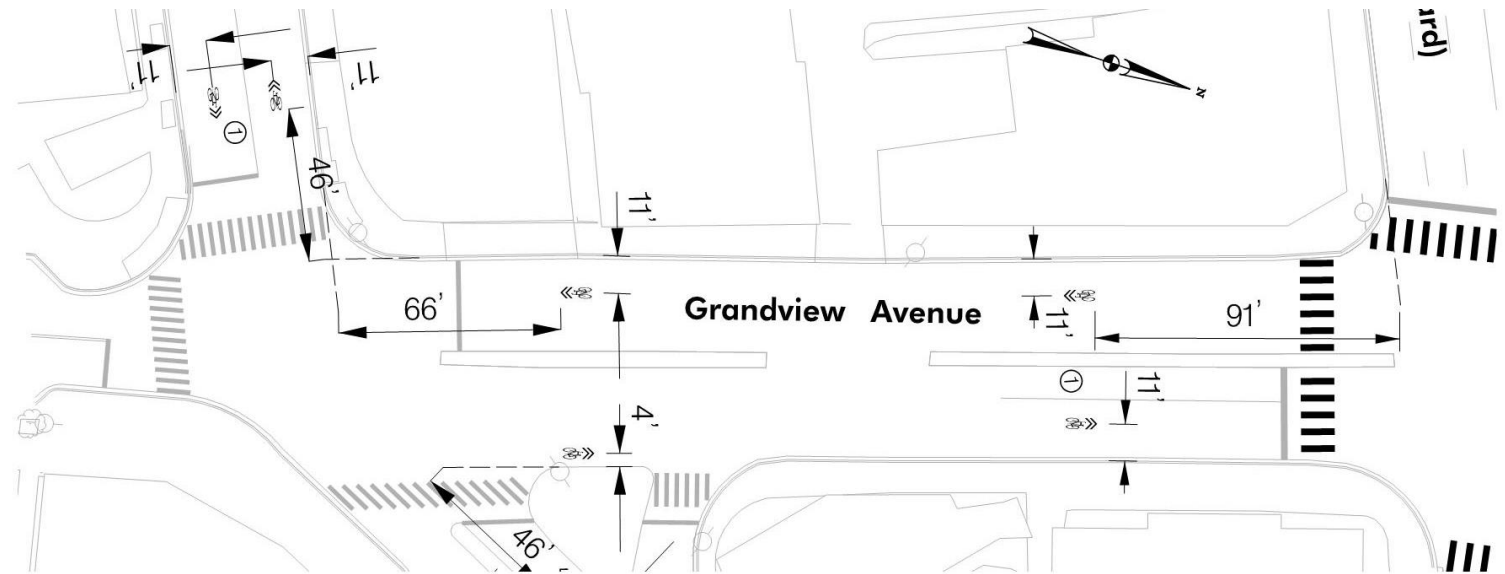


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## Grandview Avenue Improvements

### Recommended Improvements:

- Install shared lane markings on Grandview Avenue between Ennalls Avenue and MD 586 (Veirs Mill Road)

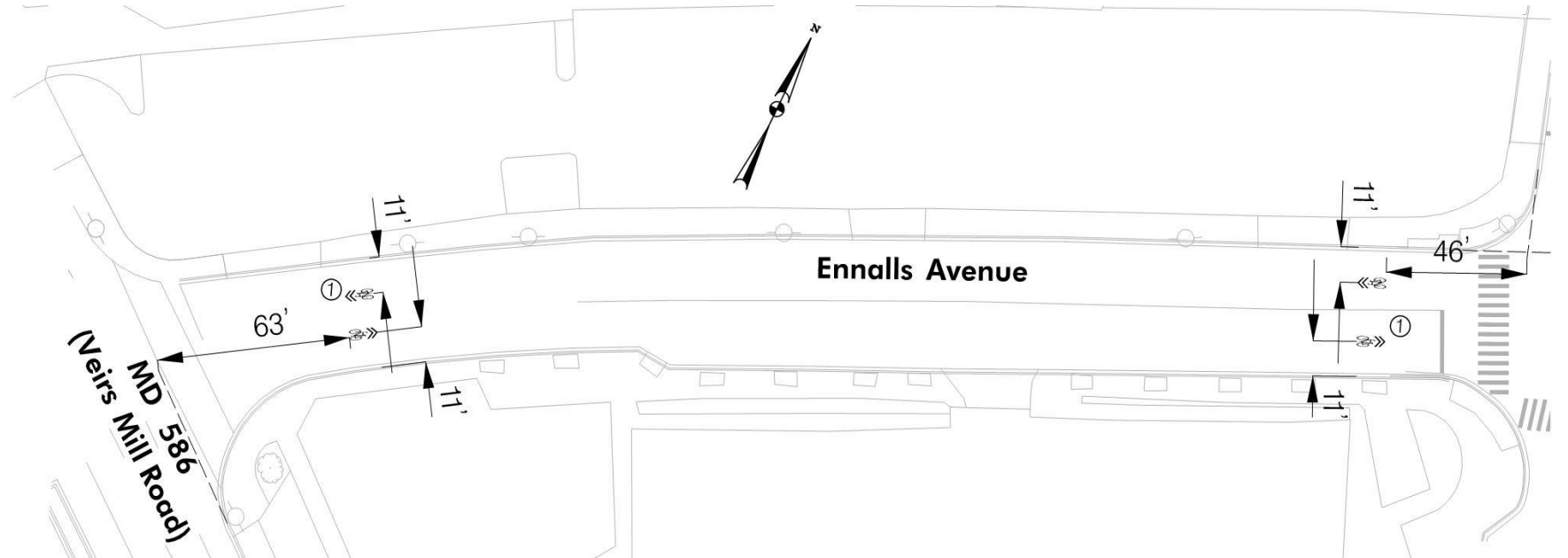


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## Ennalls Avenue Improvements

### Recommended Improvements:

- Install shared lane markings on Ennalls Avenue between MD 586 (Veirs Mill Road) and MD 97 (Georgia Avenue)



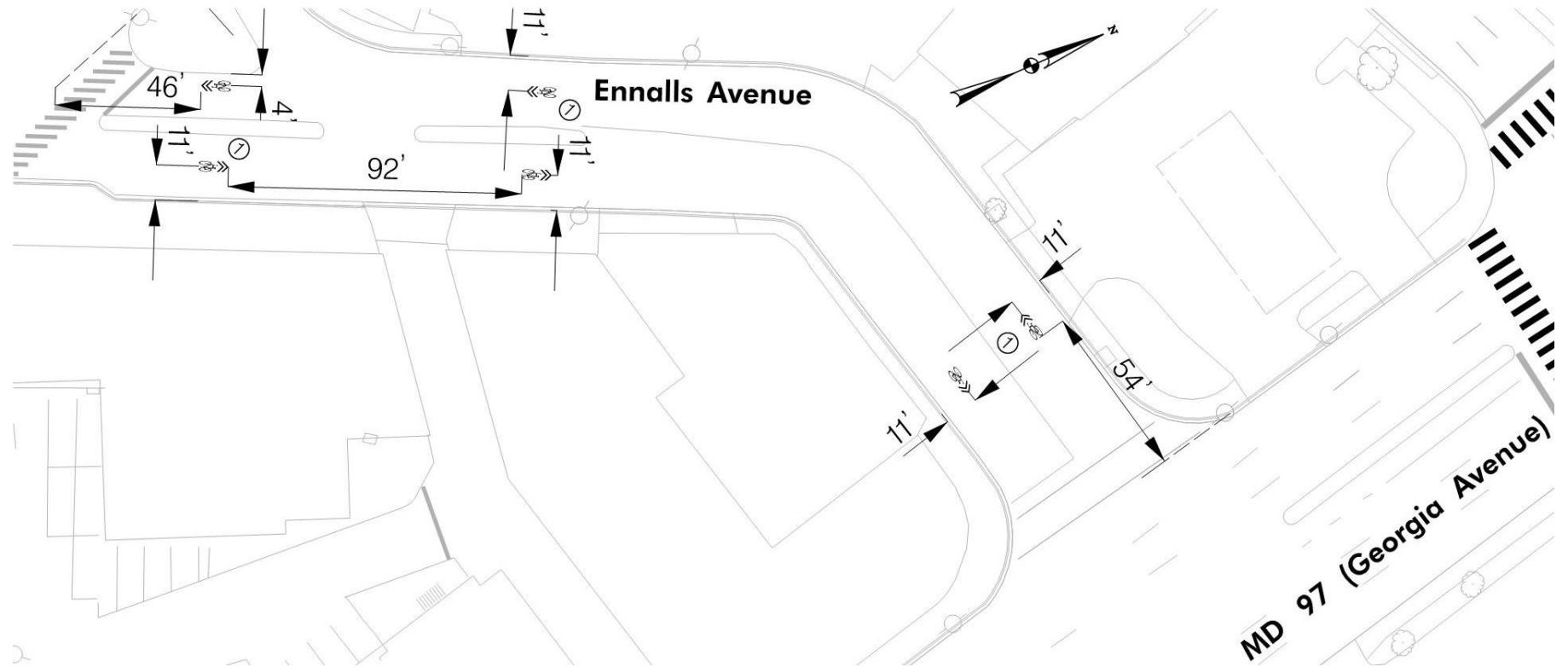


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## Ennalls Avenue Improvements

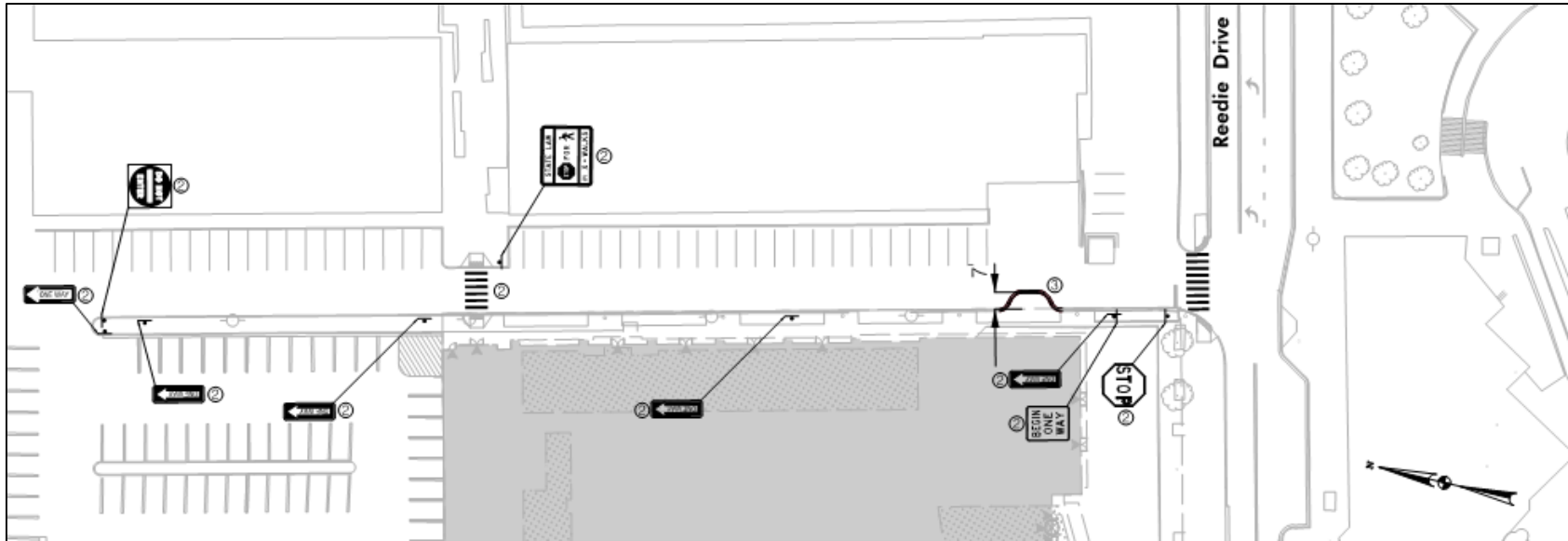
Recommended  
Improvements:

- Install shared lane markings on Ennalls Avenue between MD 586 (Veirs Mill Road) and MD 97 (Georgia Avenue)



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## Triangle Lane Improvements



- Install signing and pavement markings needed to maintain one-way traffic on Triangle Lane
- Construct a bump out to emphasize one-way traffic on Triangle Lane

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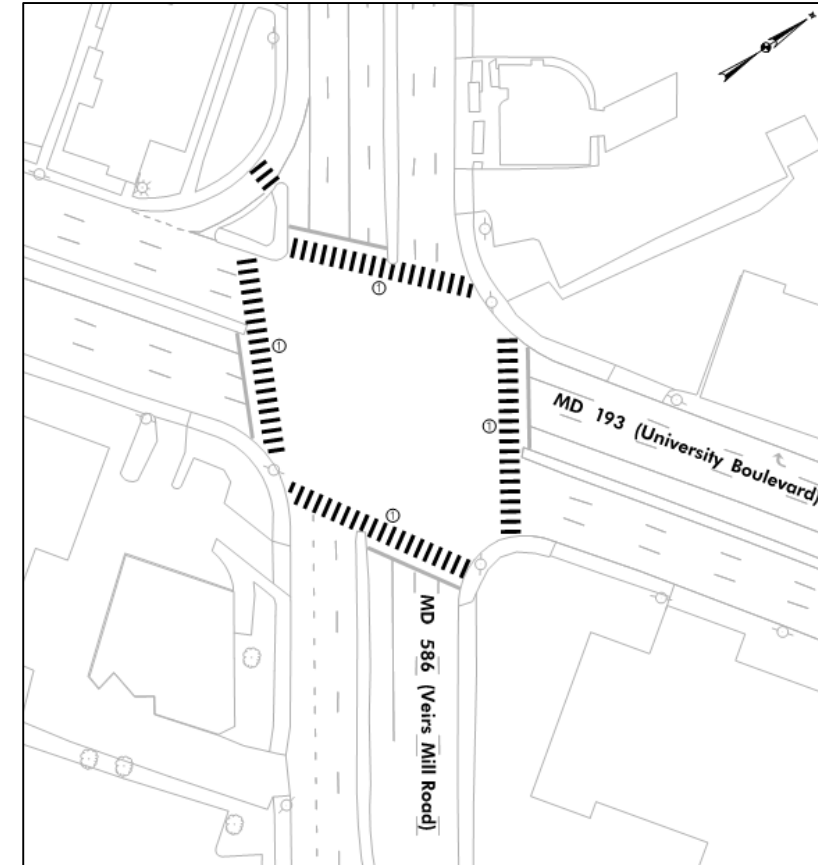
## MD 586 at MD 193 Conceptual Layout

### Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

### Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable





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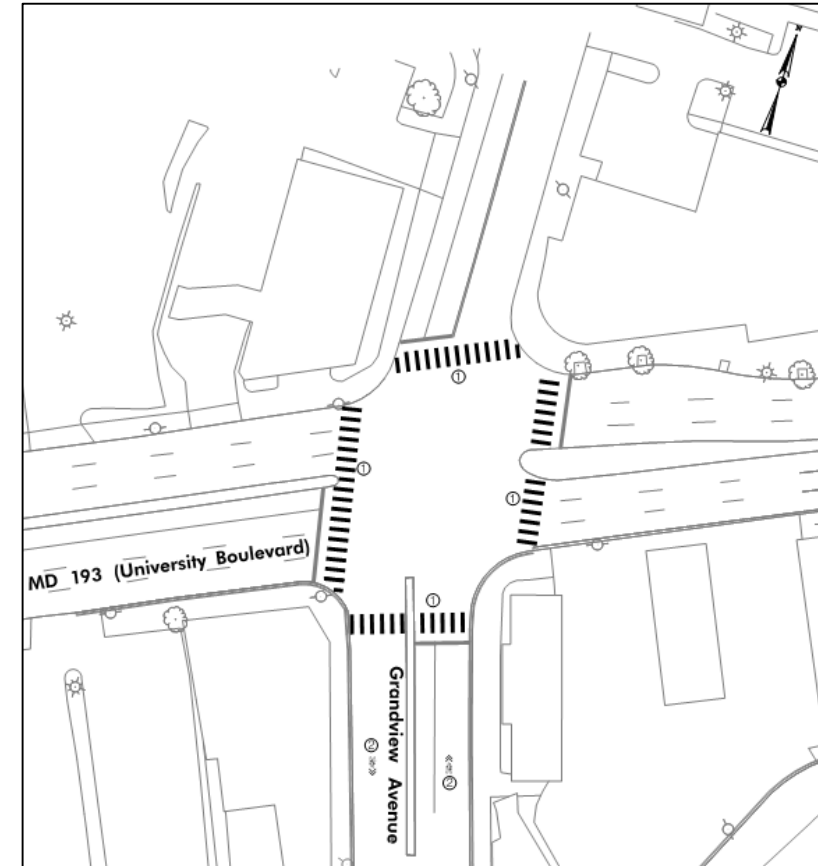
## MD 193 at Grandview Avenue Conceptual Layout

### Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

### Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable
- Install shared lane markings on Grandview Avenue



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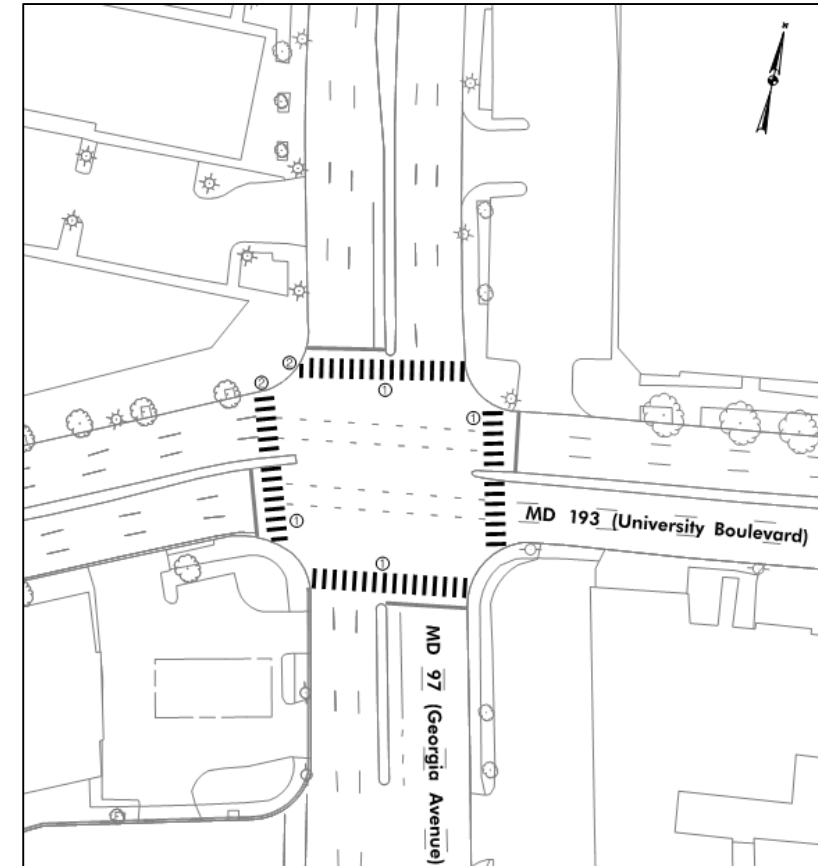
## MD 97 at MD 193 Conceptual Layout

### Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

### Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable



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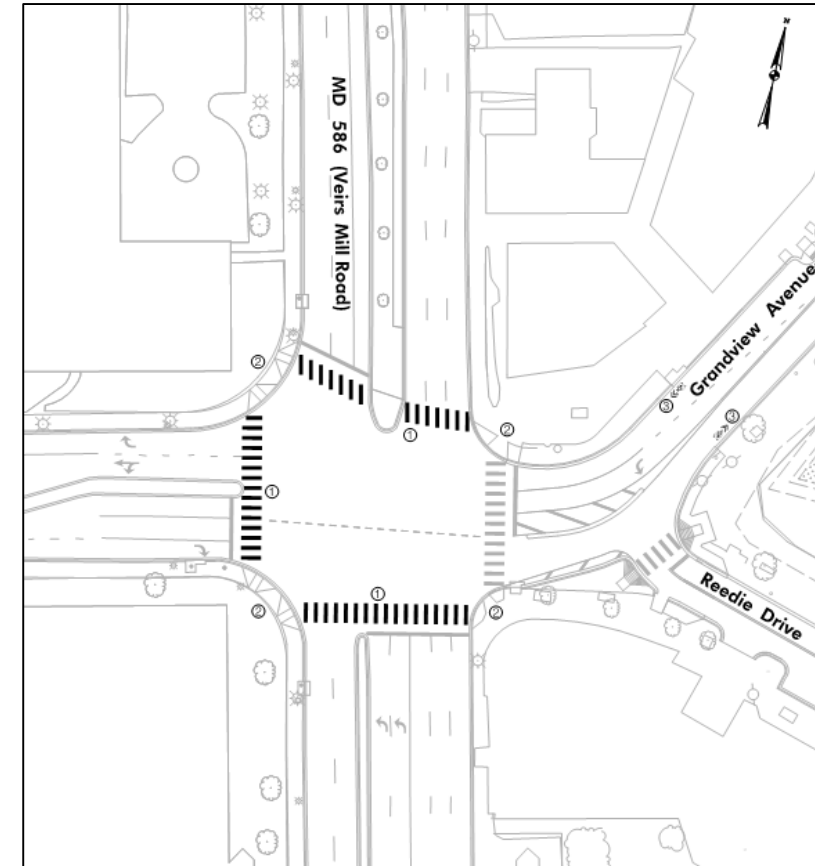
## MD 586 at Reddie Drive/Grandview Avenue Conceptual Layout

### Existing Conditions:

- Sidewalk ramps present on all four corners
- CPS provided on all four corners

### Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable
- Upgrade to APS on all corners
- Install shared lane markings on Grandview Avenue





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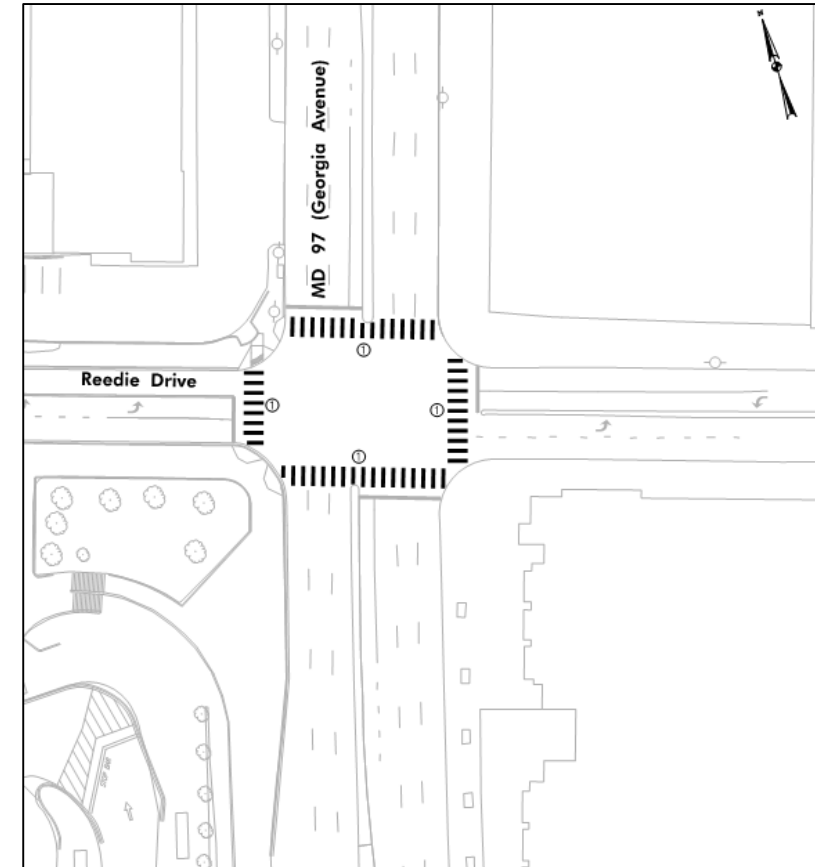
## MD 97 at Reddie Drive Conceptual Layout

### Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

### Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable



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