
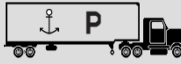


PORT OF WILMINGTON TRUCK PARKING STUDY





AQS
April 2013

Who is WILMAPCO?



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- Wilmington Area Planning Council (“WILMAPCO”)
- Metropolitan Planning Organization
- Long-range Transportation Plan
- Local Community Plans



Agenda

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- Overview
- Port and community ideas
- State of the practice
- Truck patterns
- Potential parking sites
- Other work
- Next steps



Overview

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- Identify new truck parking area near the port
 - Allow for expansion/free space at the port
 - Address community's truck idling concerns
- Steering Committee
 - WILMAPCO
 - Port of Wilmington
 - DelDOT
 - City of Wilmington
 - DNREC
 - Clean Air Council
 - Civic Leaders



Overview

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Source: Google Earth

Port and Community Ideas

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Port of Wilmington Transportation Ideas (source: DeIDOT)

| No. | Improvement | Description |
|-------------------------|-------------------------|---|
| <i>Short-Term Needs</i> | | |
| 1.) | Truck parking areas | Alleviate backups on Terminal Avenue; free space at Port |
| 2.) | Terminal Avenue | Sidewalks; lighting |
| 3.) | Pigeon Point Road | Add shoulders; access for Magellan tankers |
| 4.) | Dredging sites | Identify locations for silt |
| 5.) | Add Dolfin to autoberth | Would accommodate larger ships |
| 6.) | Cranes | Develop schedule for replacement |
| 7.) | New Gate | Improve gate to ease future backups |
| 8.) | Integration of CVISN | Install virtual WIM at the port |
| <i>Long-Term Needs</i> | | |
| 1.) | Extension of autoberth | Add 170 acres on River; this would add four docking sites |
| 2.) | I-495 Interchange | Ensure good future access to highway |
| 3.) | Rail | Extend rail to dock; increase rail car storage capability |

Port and Community Ideas

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Community Ideas (source: March 2010 civic meeting)

| No. | Improvement | Description |
|-----|--|---|
| 1.) | Zoning changes or voluntary relocation | Industry not compatible with residential; social justice issue |
| 2.) | Industrial site regulation | Not enough regulation by DNREC |
| 3.) | Truck traffic | Destroys roads, worsens air quality, late-night trips, idling at interstate ramps |
| 4.) | Terminal Avenue | Left turn violations |
| 5.) | Pyles Lane | Reduce truck volume |
| 6.) | Beautification | Prevent trash dumping, remove unused rail tracks, streetscape |

State of the Practice

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- Reviewed similar work at four seaports
 - Oakland, Seattle, Rotterdam and Hamburg
- Common Themes
 - Parking site should be well signed
 - Security (lighting, guards, fencing, cameras)
 - Sanitation (toilets and showers)
 - Food and beverages (cafés)
 - Electric plug-ins



Source: Paul Chinn, The Chronicle

State of the Practice

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- **Truck Stop Electrification**
 - Trucks plug into the grid instead of idling
 - Reduces diesel exhaust
 - Reduces noise
 - Saves money long-term
- **New Castle County TSE sites**
 - I-95 Rest Area
 - Trinity Trucking



Source: Ohio Environmental Council

State of the Practice

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- **I-95 Rest Area**
- **TSE 2011**
 - 50 spaces
 - 22% occupancy
 - 55% usage
 - 2,387.59 (total gal/hr)
- **Emissions reductions (year)**
 - CO: 39.79 kg
 - CO2: 9,655.99 kg
 - NOx: 60.5 kg
 - PM: 0.69 kg
 - VOC: 7.4 kg



Truck Patterns

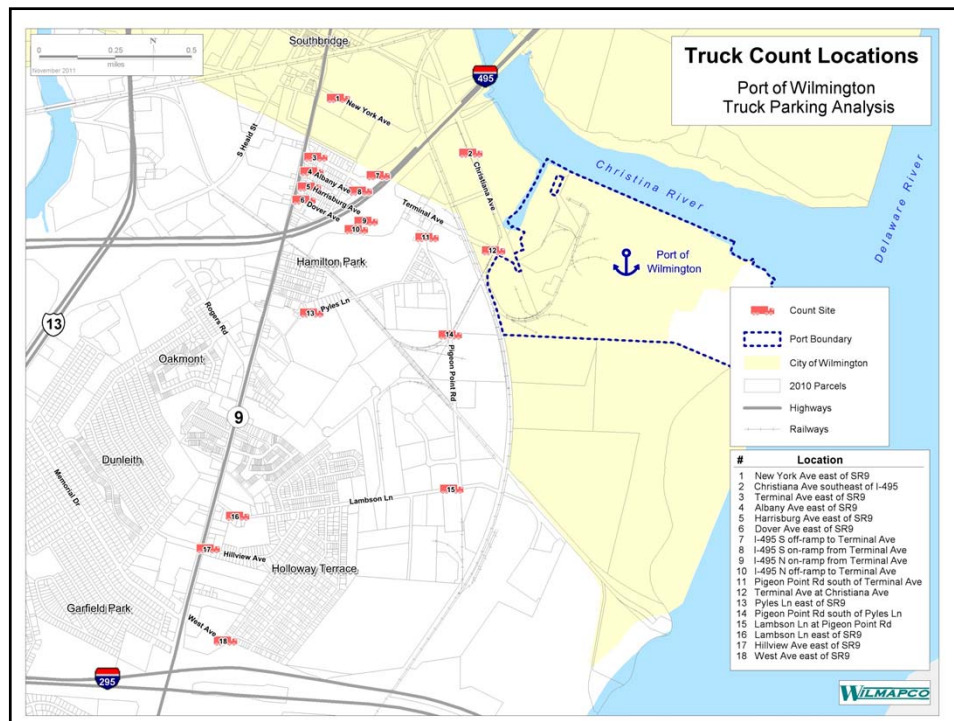
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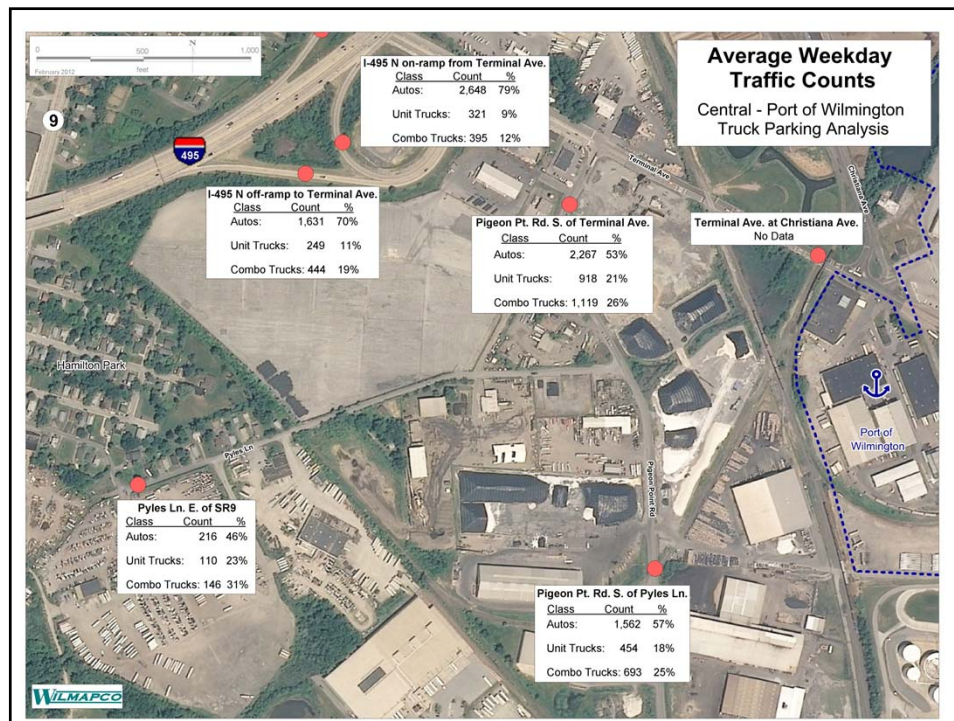
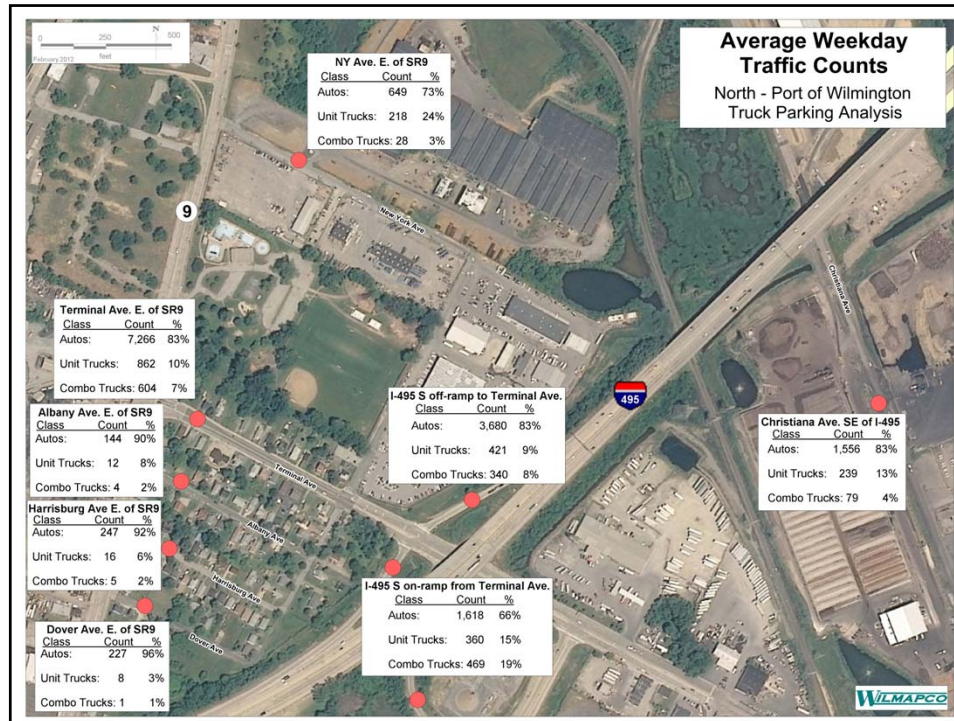
- Get a sense of truck movement around port
- Late-night trips?
- Truck restricted roadways

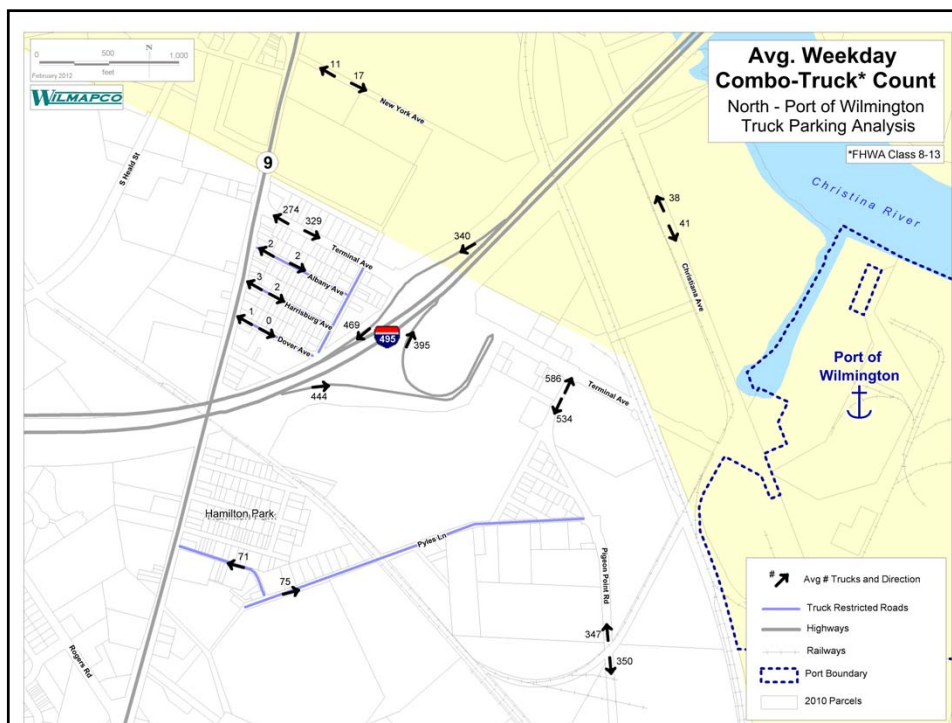
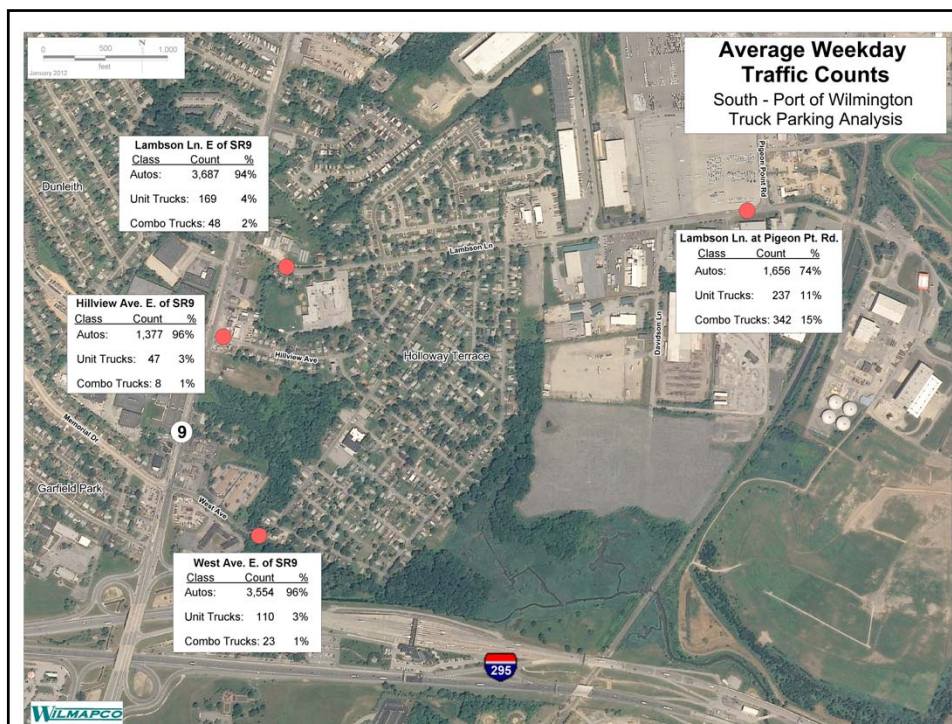
Combo Truck

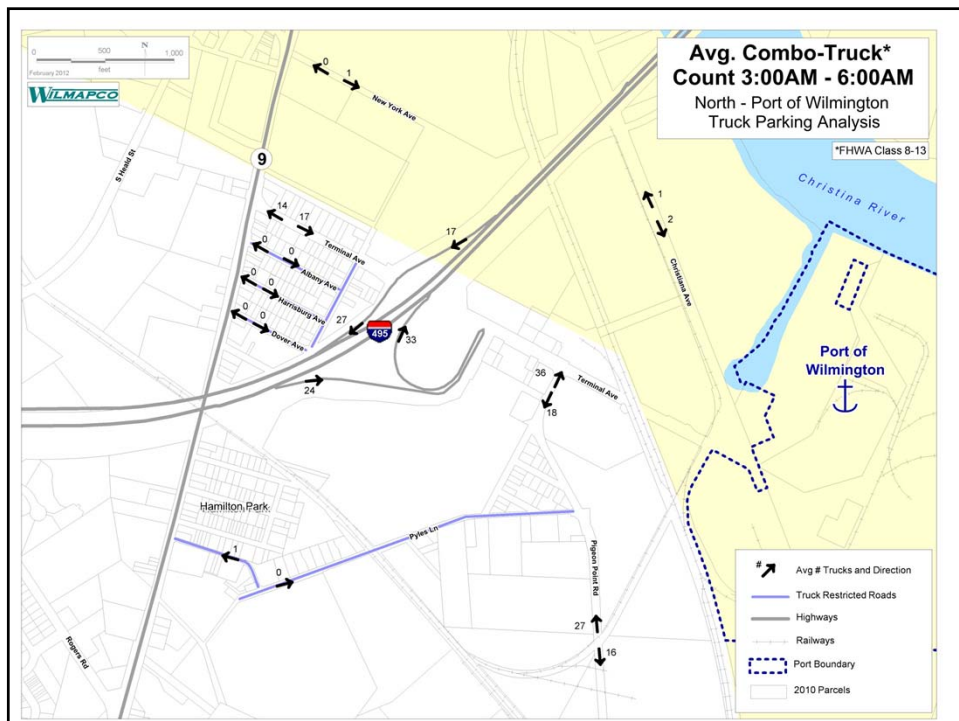
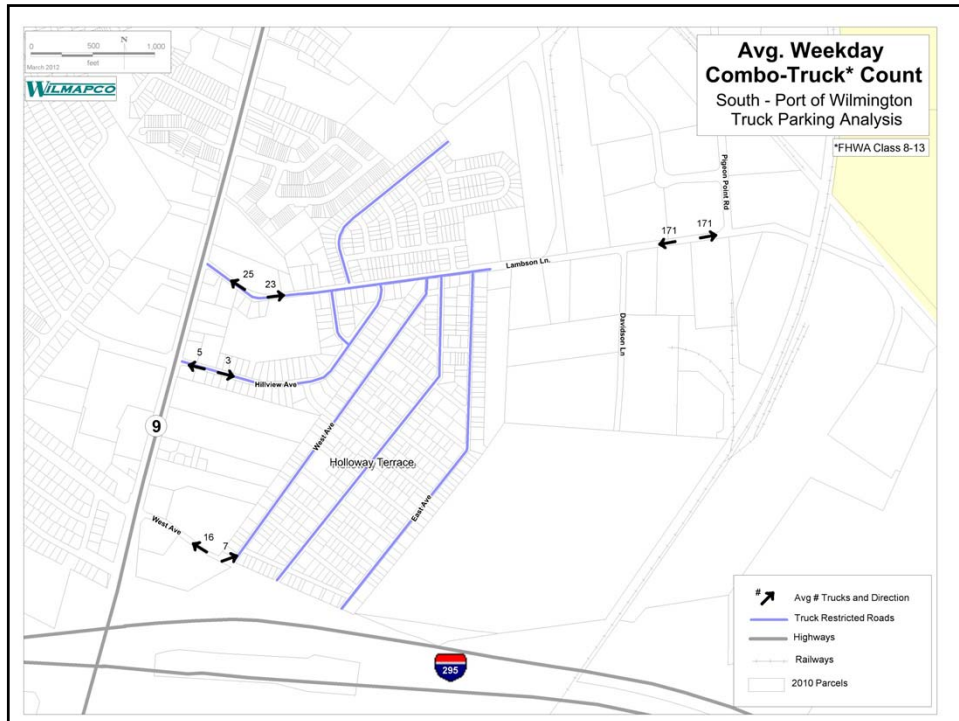


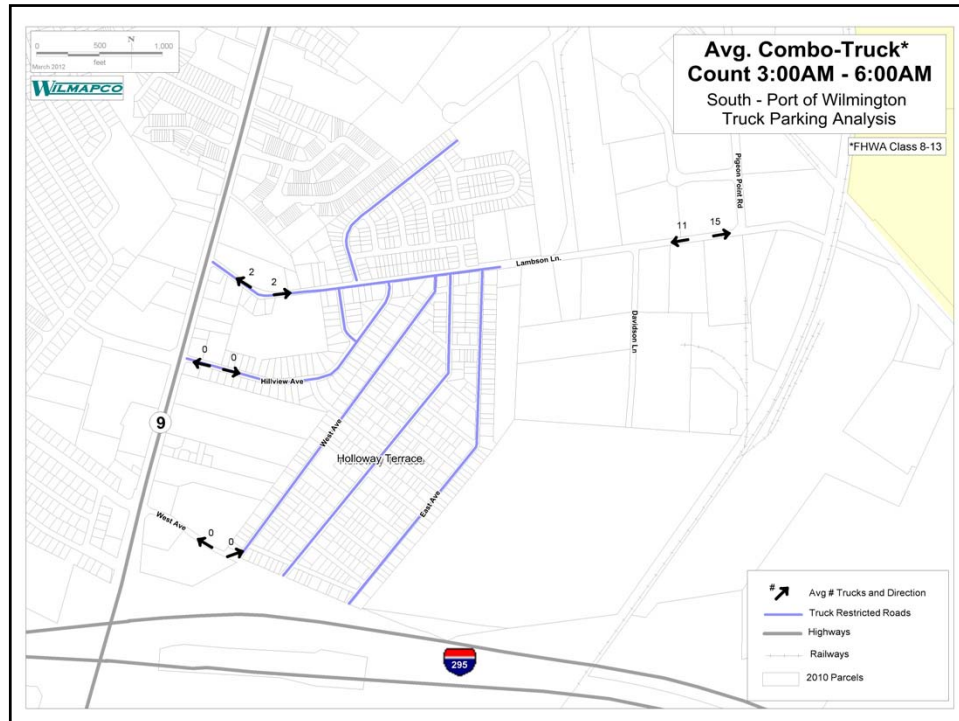
Unit Truck











Truck Patterns

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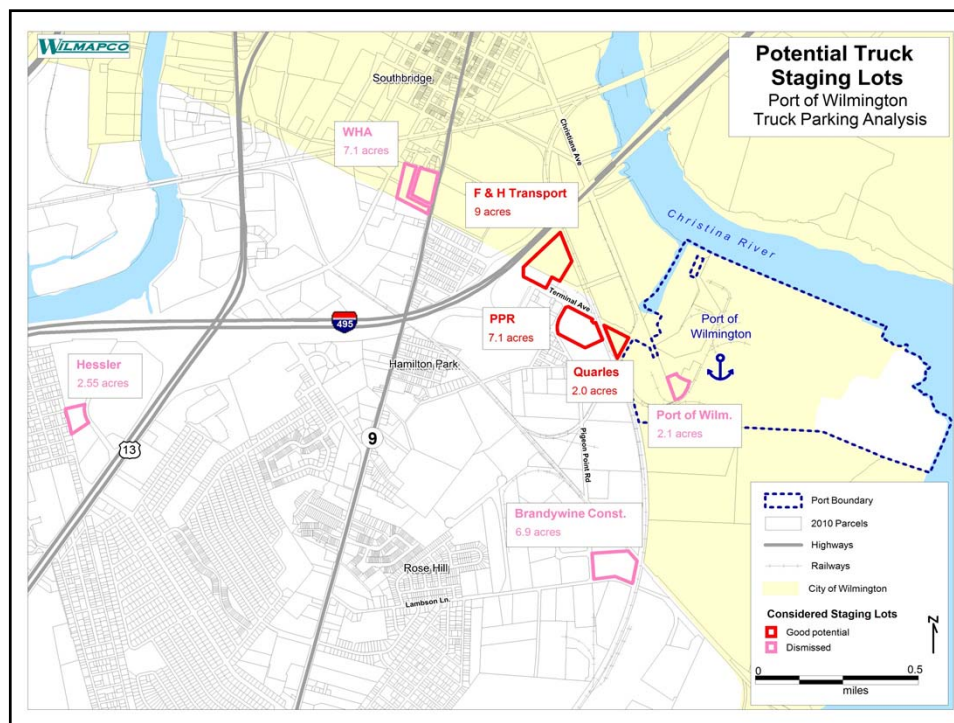
- Most truck movement around port
- Potential violations of truck-restricted roads
 - Especially Pyles Lane and Lambson Lane
 - Have talked to NCC Police about enforcement options
- Early morning (3 AM to 6 AM) truck movements confirmed
 - Especially along Pigeon Point Road
- Good potential for use of parking site


Potential Truck Parking Areas

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- Nearby the port
- Can handle at least 30 trucks
- Three sites identified







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F & H Transport: Terminal Avenue

- 9 acres; 0.5 miles (1 min.); commercial
- Closest to interstate
- Already a truck stop
- Most developed/active
- Largest site
- \$250k +
- Moderate housing impact
 - 55 units w/in 0.25 mi.






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Pigeon Point Road LLC: Terminal Avenue

- 7.1 acres; 0.4 miles (1 min.); industrial
- Developed and active
- \$293.6k
- Great access
- Little housing impact
 - 7 units w/in 0.25 mi.



Quarles Petroleum

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- 2.0 acres; 0.2 miles (33 sec.); industrial
- Very small
- Undeveloped
- \$285k
- Great access
- Little housing impact
 - 3 units w/in 0.25 mi.



Source: Google Earth

Other Work

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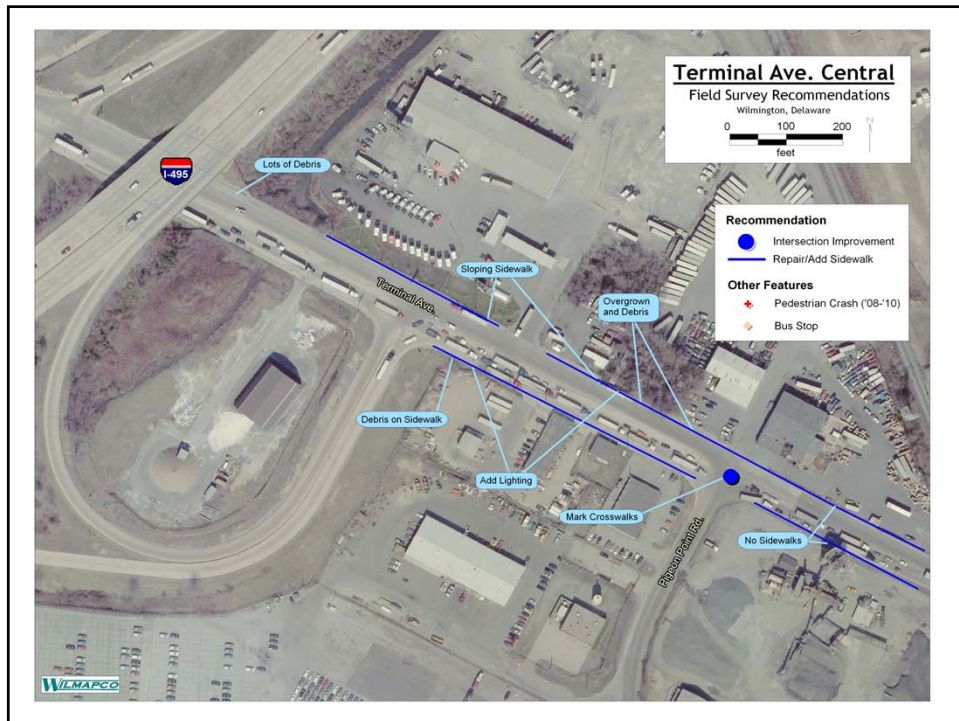
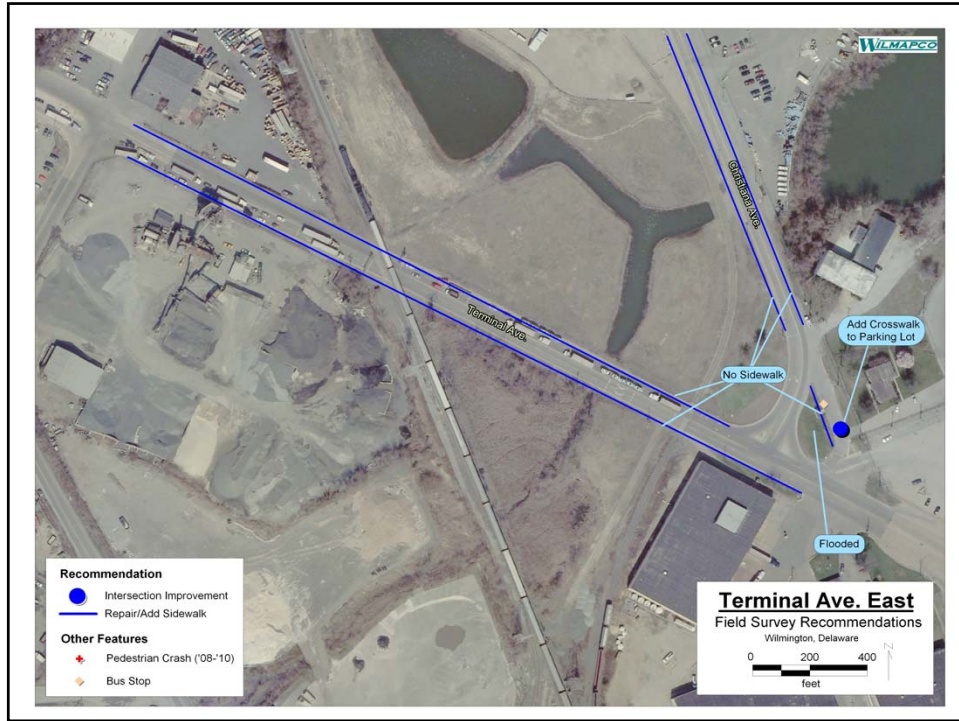
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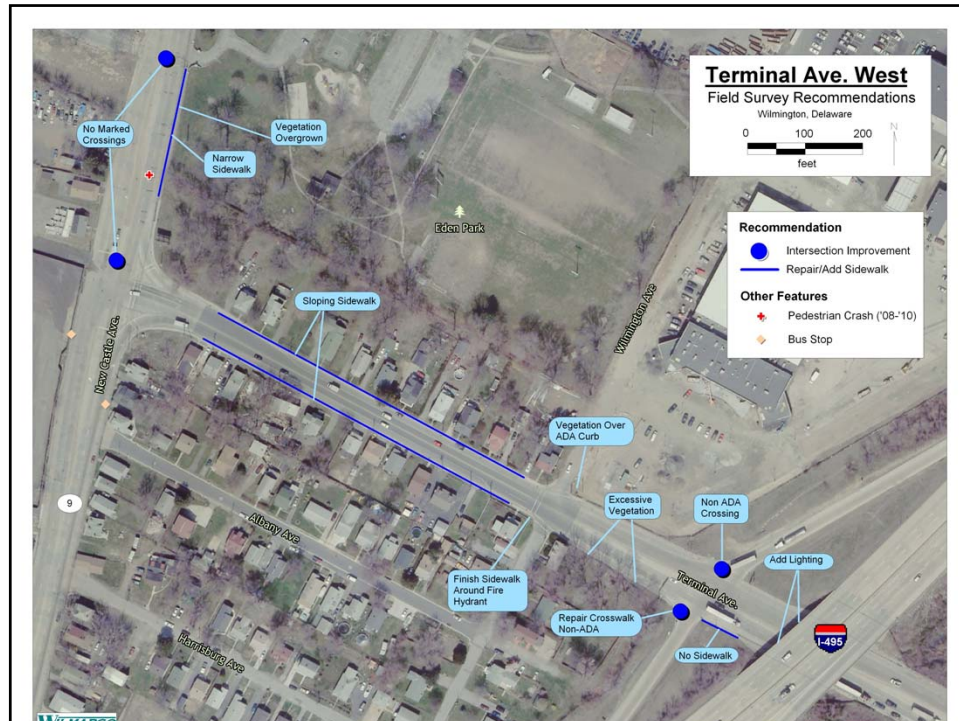
- Non-motorized recommendations on Terminal Avenue
 - Access from bus stop at Christiana Avenue
 - Walkability to New Castle Avenue



Source: Google Earth







Next Steps

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- **Public feedback**
 - January 23 public meeting
 - April 24 public meeting
- **Identify preferred parking site**
- **Assemble implementation needs**
 - Truck idling/restriction enforcement and education
 - Identify potential funding sources
 - Maintenance and operation of potential parking site
- **Draft report**



Questions/Feedback

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