Outline

- Introduction
- Existing Conditions Analysis
  - Land Use / Zoning
  - Traffic
  - Safety
  - Geometry
  - Bike / Ped / Transit
- Next Steps

Please feel free to ask questions!

Introduction

Introduction

- Route 5 Corridor Study
  - Evaluate safety, congestion, and transit/bike/ped mobility
  - Assess travel demand growth for a multi-modal corridor to service the future land use vision and recommendations

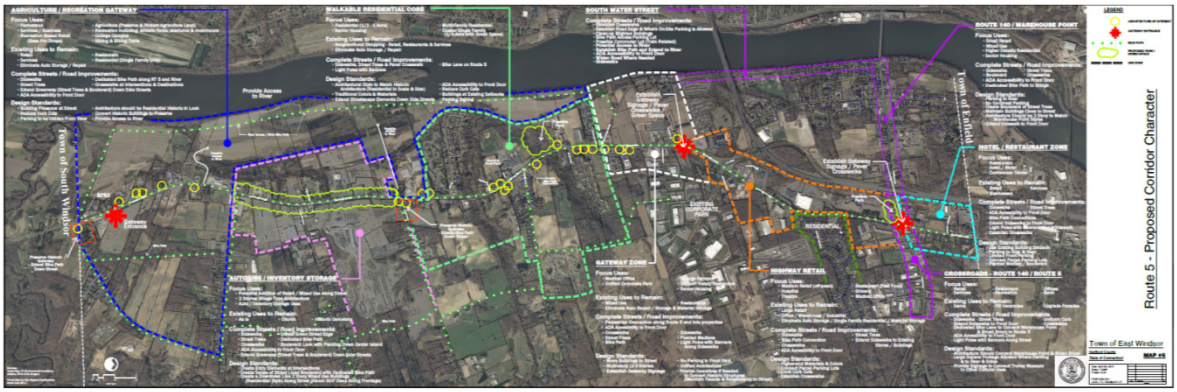
Introduction

- Study Schedule (18 months)
  - Data Collection Complete
  - Community Involvement Phase Currently Underway
  - Existing Conditions Substantially Complete
  - Future Conditions in Fall 2018
  - Alternatives in Winter 2018/2019
  - Transportation Plan in 2019

Existing Conditions Analysis

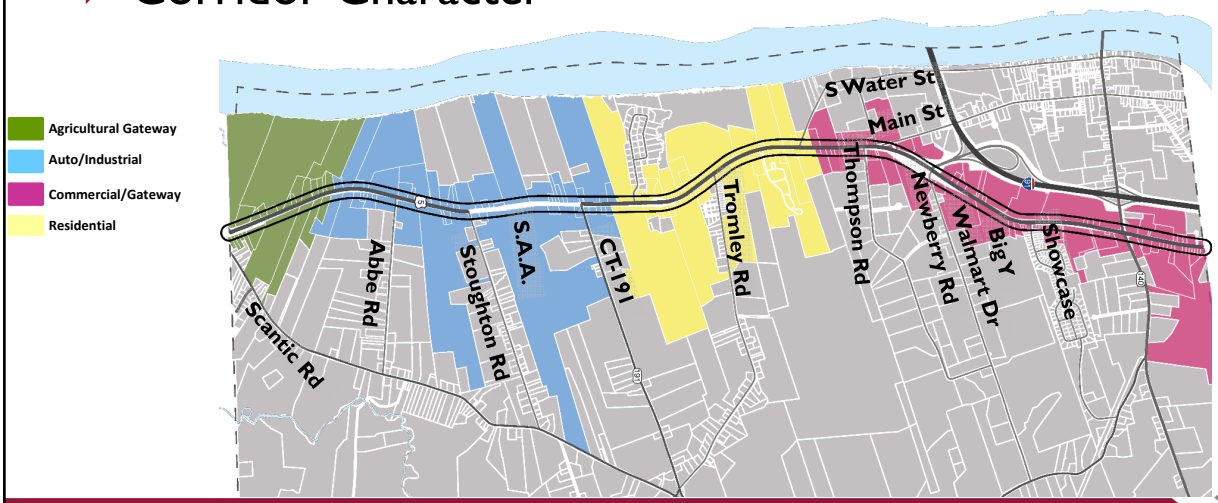
Existing Conditions Analysis

- 2015 Land Use Corridor Study



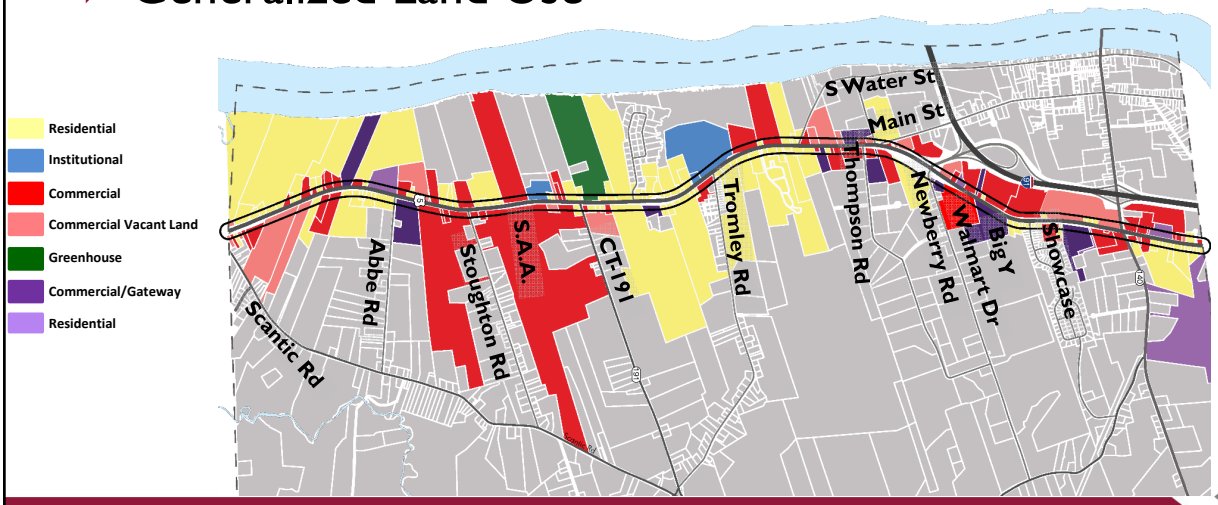
Existing Conditions Analysis

- Corridor Character



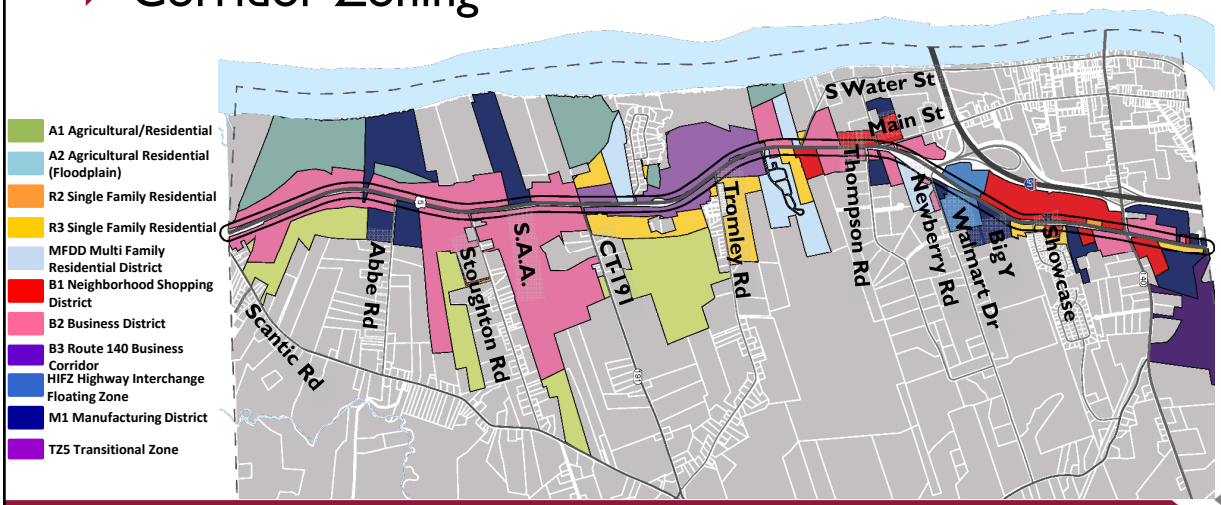
Existing Conditions Analysis

- Generalized Land Use



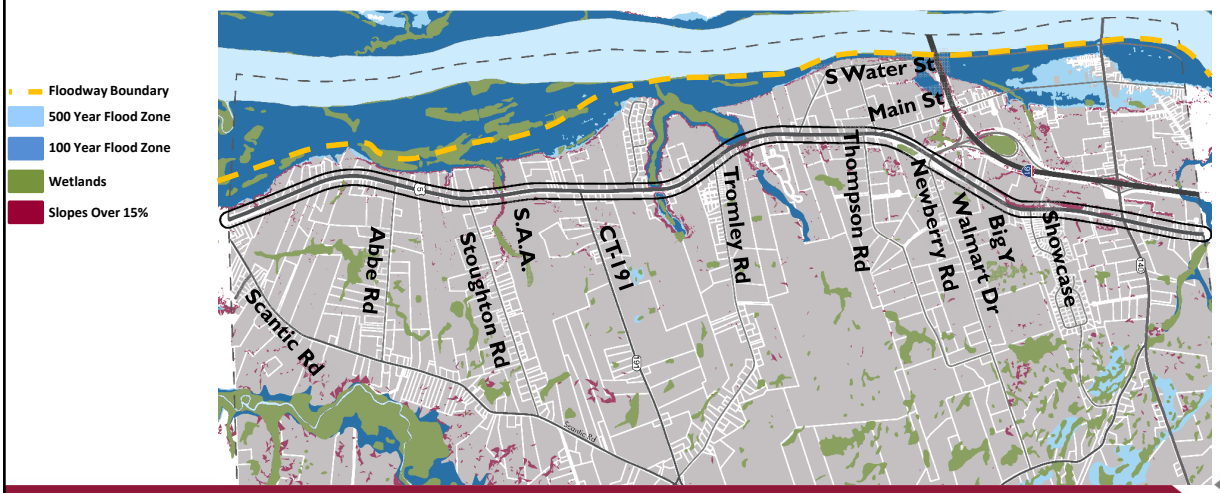
Existing Conditions Analysis

- Corridor Zoning



Existing Conditions Analysis

- Environmental Constraints

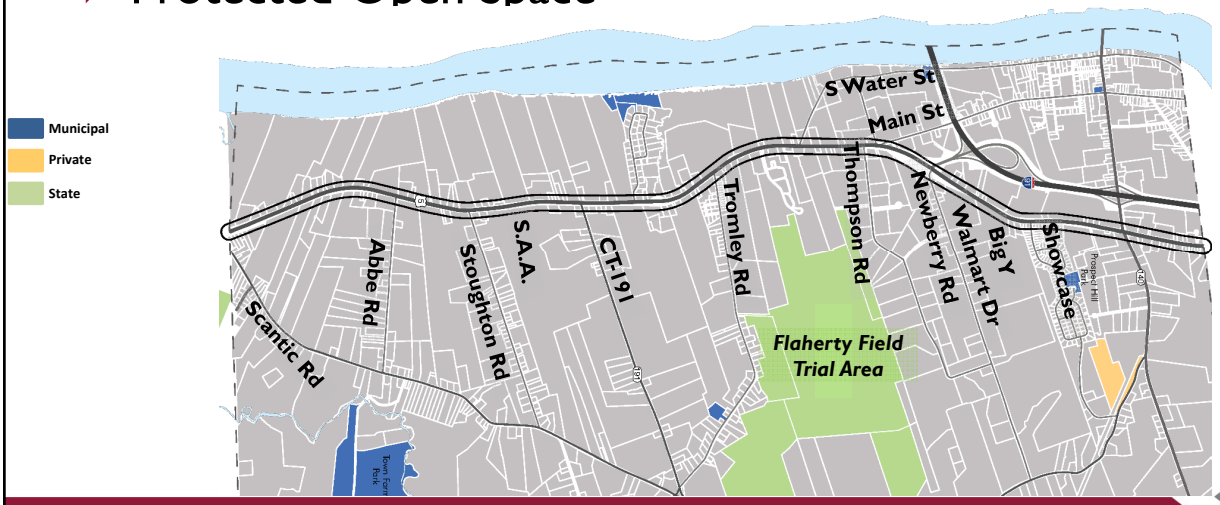


Existing Conditions Analysis

- Wetlands

Existing Conditions Analysis

- Protected Open Space

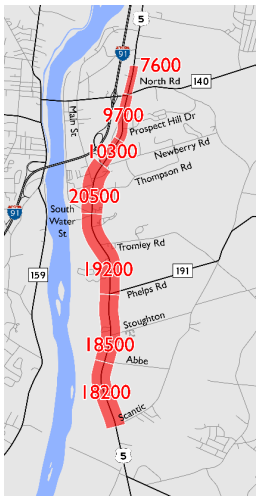


Existing Conditions Analysis

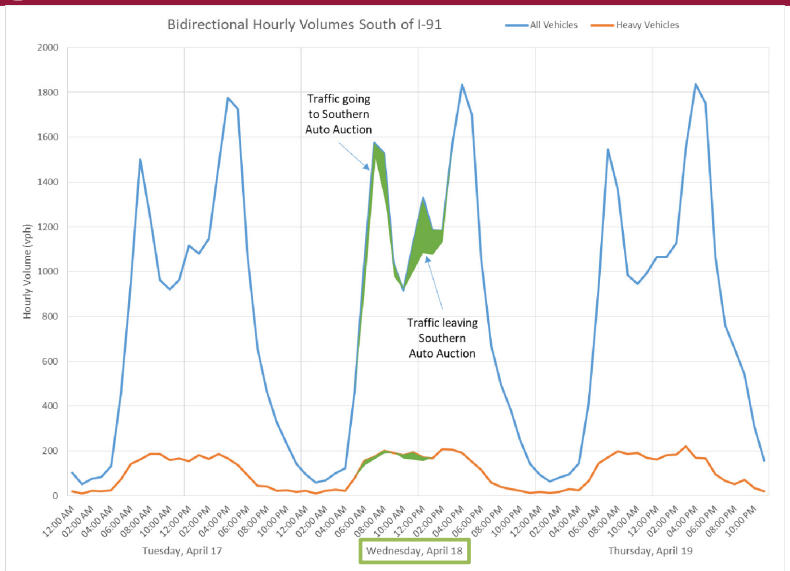
- Route 5 Study Area within East Windsor

Existing Conditions Analysis

- Functional Classification
  - Principal Arterial
- Average Daily Traffic (ADT) Range
  - 7,600-20,500 vehicles per day

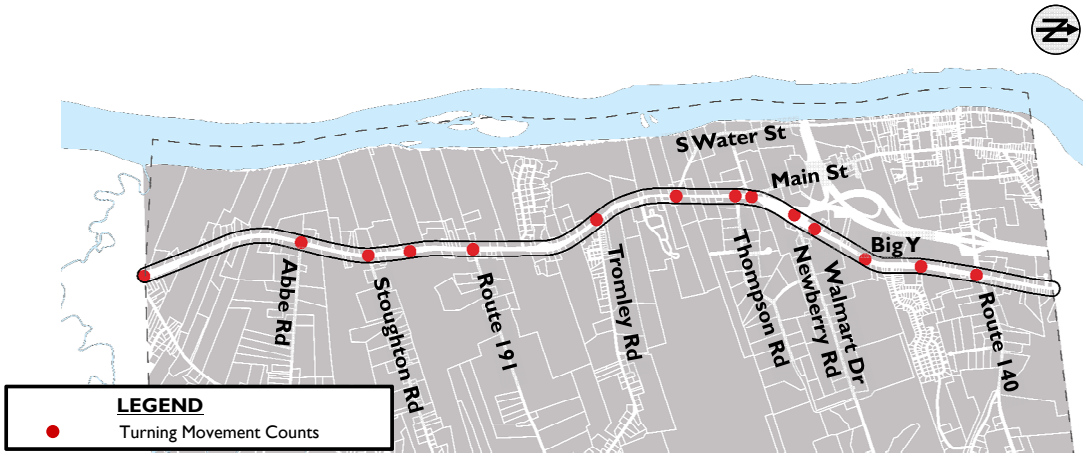


Existing Conditions Analysis



Existing Conditions Analysis

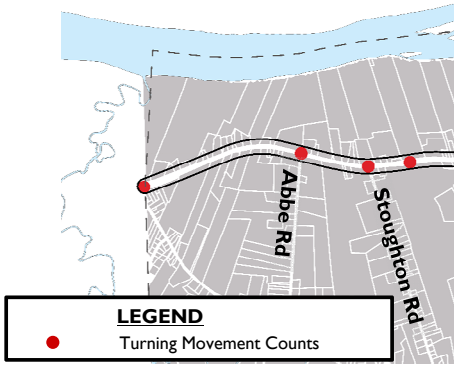
- Turning movement counts

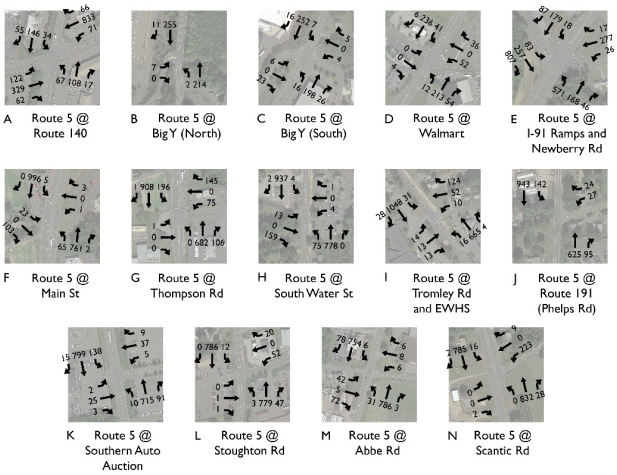


Existing Conditions Analysis

- Turning movement

AM Peak Volumes (7:15-8:15)

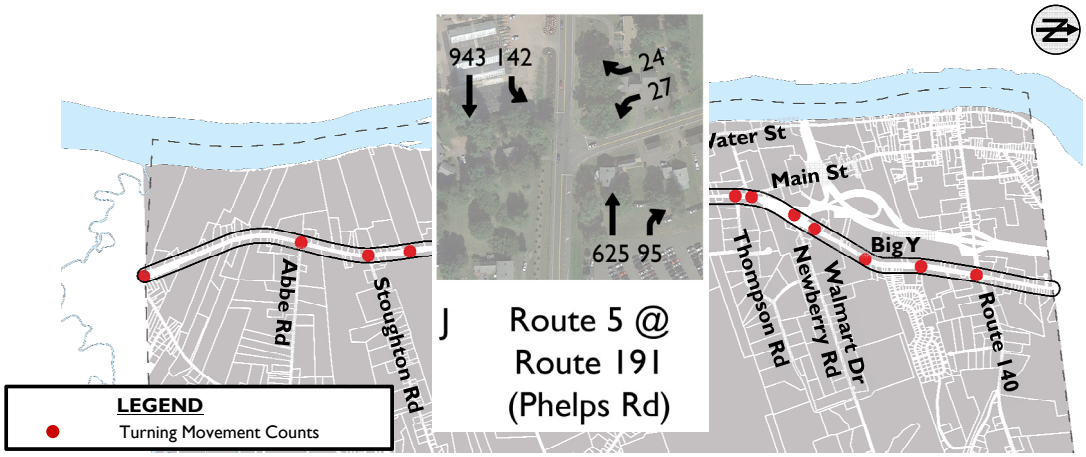




Existing Conditions Analysis

- Turning movement

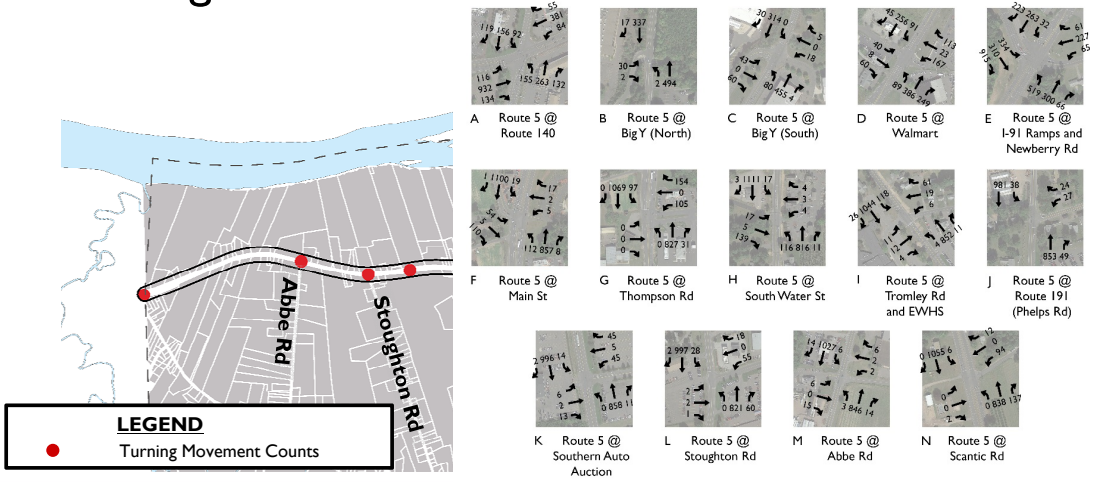
AM Peak Volumes (7:15-8:15)



Existing Conditions Analysis

- Turning movement

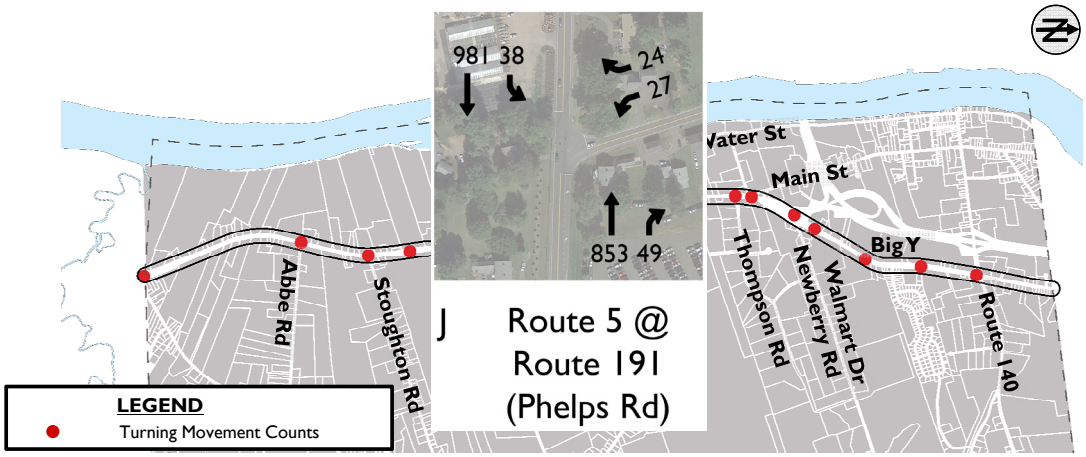
PM Peak Volumes (4:30-5:30)



Existing Conditions Analysis

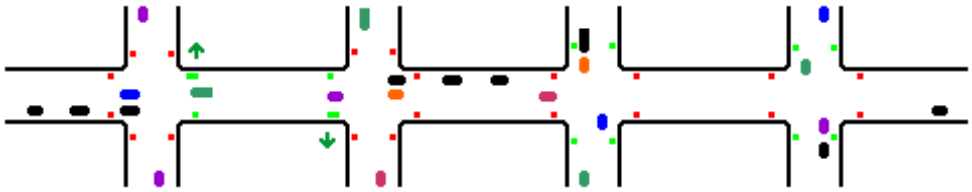
- Turning movement

PM Peak Volumes (4:30-5:30)



Existing Conditions Analysis

- Traffic Signal Coordination



Existing Conditions Analysis

- Traffic Signal Coordination
- Closed – loop system

TIME-SPACE DIAGRAM COVER SHEET

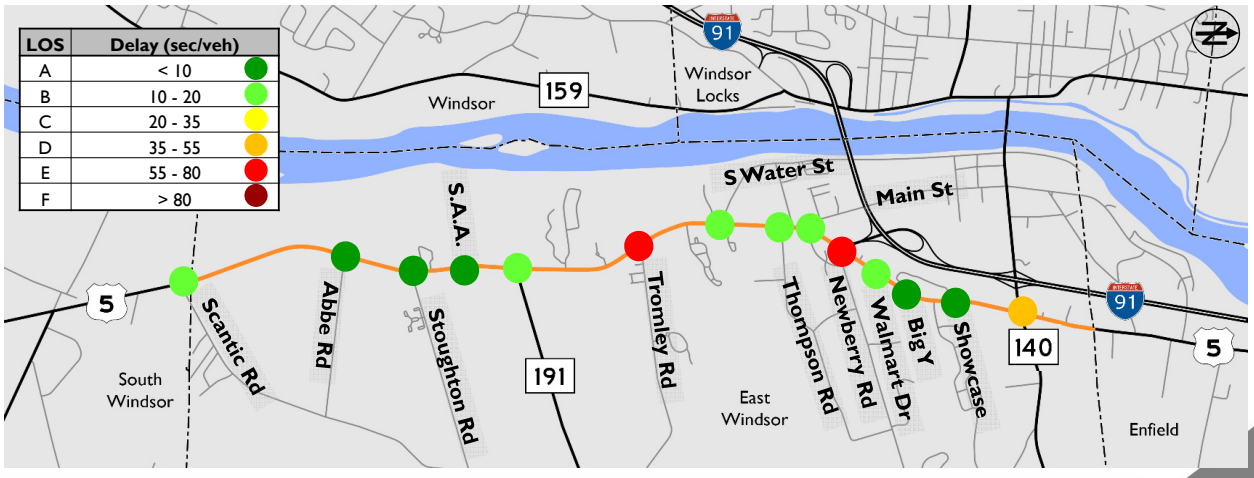
ROUTE: 5 | HOURS OF OPERATION: 0600-0900 | CYCLE: 1 | LENGTH: 90 "
SYSTEM: N-50 | DAY(S) OF OPERATION: MON-FRI | SPLIT: 1
PROJ #: | TOWN(S): EAST WINDSOR | OFFSET: 1

INT #	ID #	LOCATION	PHASES (sec-%)																OFFSET (sec-%)		DISTANCE (ft)
			Φ1		Φ2		Φ3		Φ4		Φ5		Φ6		Φ7		Φ8		Φ9				
046-214	502	ABBE ROAD			70	78%			20	22%											80	89%	0
046-216	503	STOUGHTON ROAD			66	73%			24	27%											78	87%	1890
046-222	504	SOUTHERN AUTO SALES			75	83%			15	17%											61	68%	1200
046-205	505	RTE 191 (PHELPS)	10	11%	58	65%			22	24%											45	50%	1680
046-213	506	TROMLEY ROAD	13	14%	62	69%			15	17%	13	14%	62	69%							85	94%	3580
046-215	507	SOUTH WATER ST	10	11%	68	76%			12	13%	10	11%	68	76%							42	47%	0
046-201	508	THOMPSON ROAD	18	20%	40	44%			32	36%	18	20%	40	44%							75	83%	1885
046-209	509	RTE 91 RAMPS	21	23%	23	26%			26	29%	21	23%	23	26%			20	22%			29	32%	1605
046-228	512	RTE 5 WENDY'S, WAL-MART	12	13%	46	52%	12	13%	20	22%	12	13%	46	52%	12	13%	20	22%			40	44%	575
046-226	510L	PROSPECT AND MARKET	10	11%	60	67%			20	22%											44	49%	1595
046-225	511	RTE 5 & CINEMA DR	10	11%	62	69%			18	20%											22	24%	1540

INT 046-213 RUNS PATTERN 1 0600-0645 & 0715-0900 AND RUNS FREE MON-FRI 0646-0715

Existing Conditions Analysis

- Traffic Operations - AM

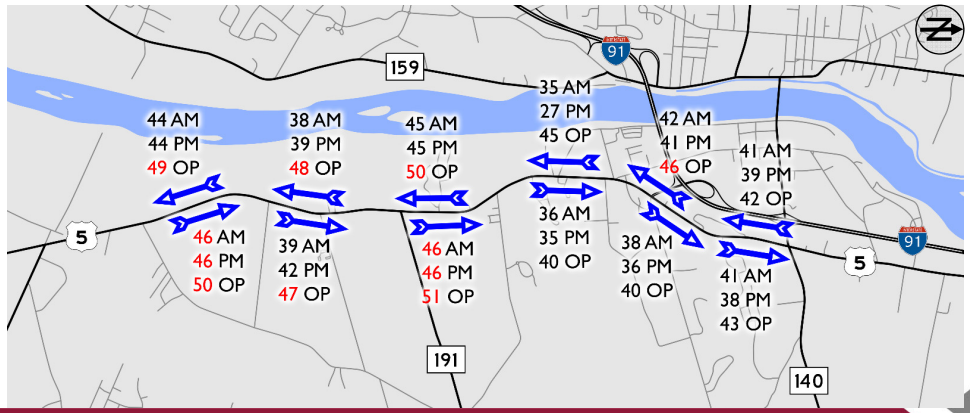


Existing Conditions Analysis

- Traffic Operations - PM

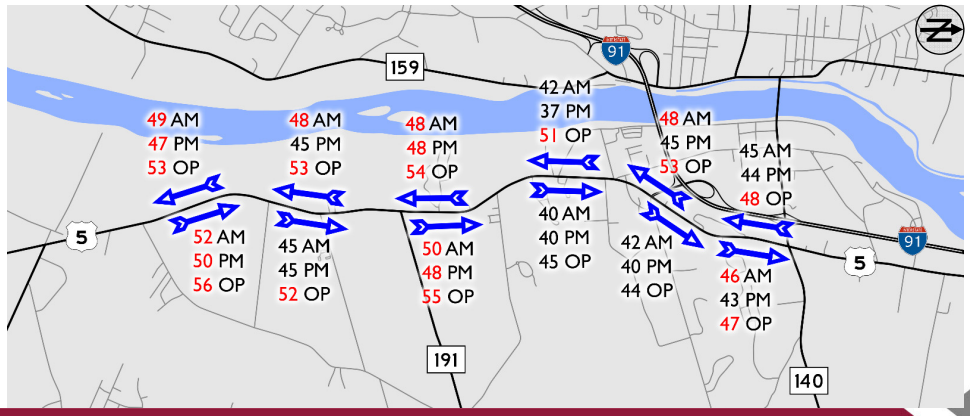
Existing Conditions Analysis

- Average Weekday Segment Speeds (AM, PM, Off-Peak)
  - Does not include delay from signals



Existing Conditions Analysis

- 85th Percentile Weekday Segment Speeds
  (AM, PM, Off-Peak)



Preliminary Data Collection

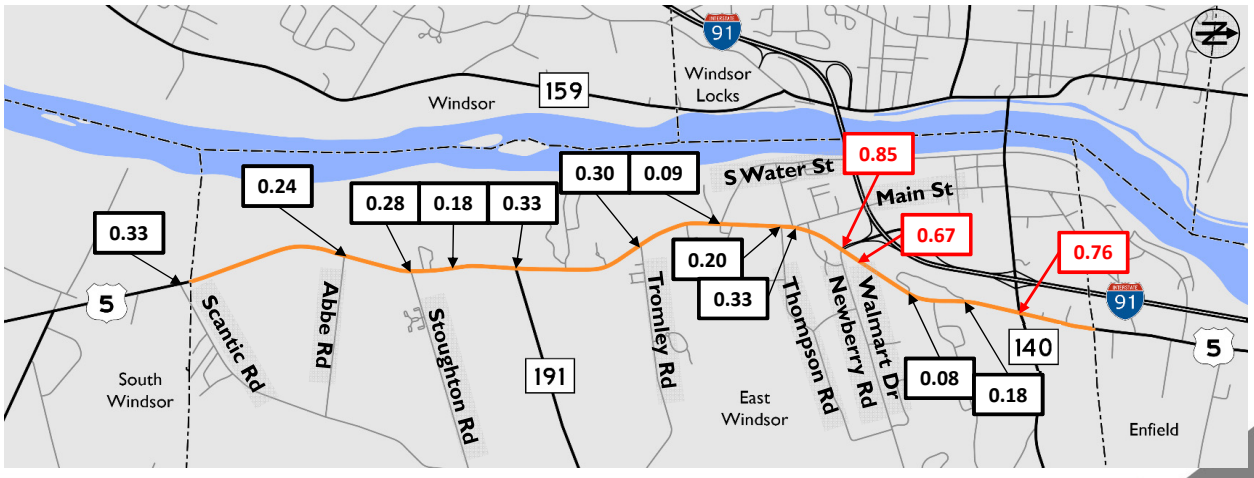
- Average Weekday Travel Speeds (10 AM – 4 PM)

Existing Conditions Analysis

- Sources of Delay:
  - Signal Phasing / Coordination
  - Irregular Signal Spacing
  - High School
  - Inconsistent Speeds
  - Heavy Vehicles
  - Turning Vehicles
  - Broken Detectors

Existing Conditions Analysis

- Crash Rate at Intersections (crashes per million vehicles)

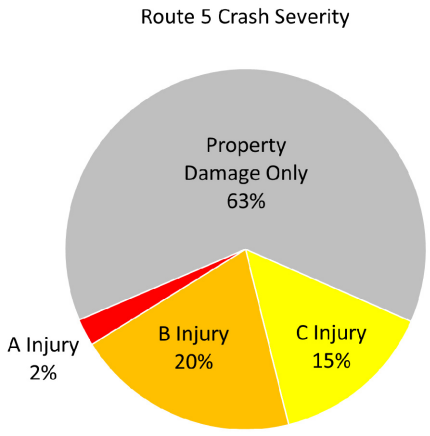


Existing Conditions Analysis

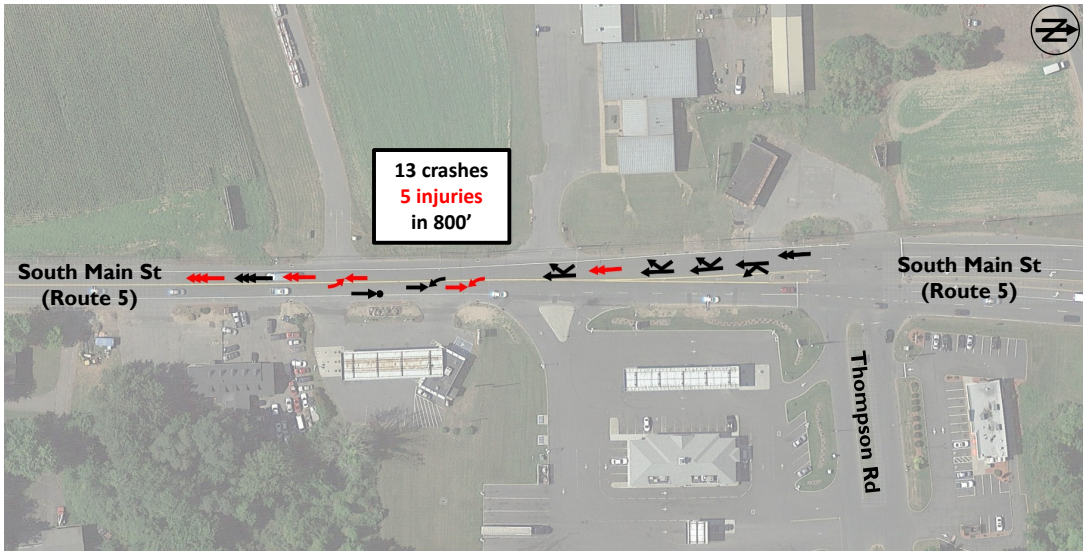
- Crash Rate on Segments (crashes per 100 million vehicle-miles)

Existing Conditions Analysis

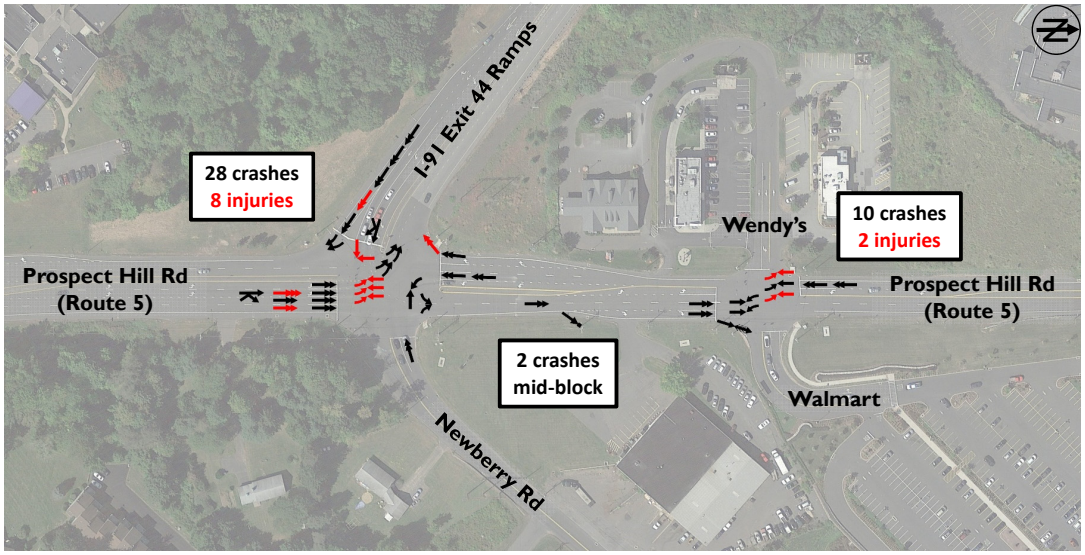
- Crash Rate Overview
  - Crash rates are highest in the north
  - Crash severity is highest in the south
  - Many rear-end crashes due to congestion
  - Many angle crashes at driveways
  - Accident clusters:
    - Just south of Thompson
    - At I-91 x44 ramps
    - Route 140 intersection



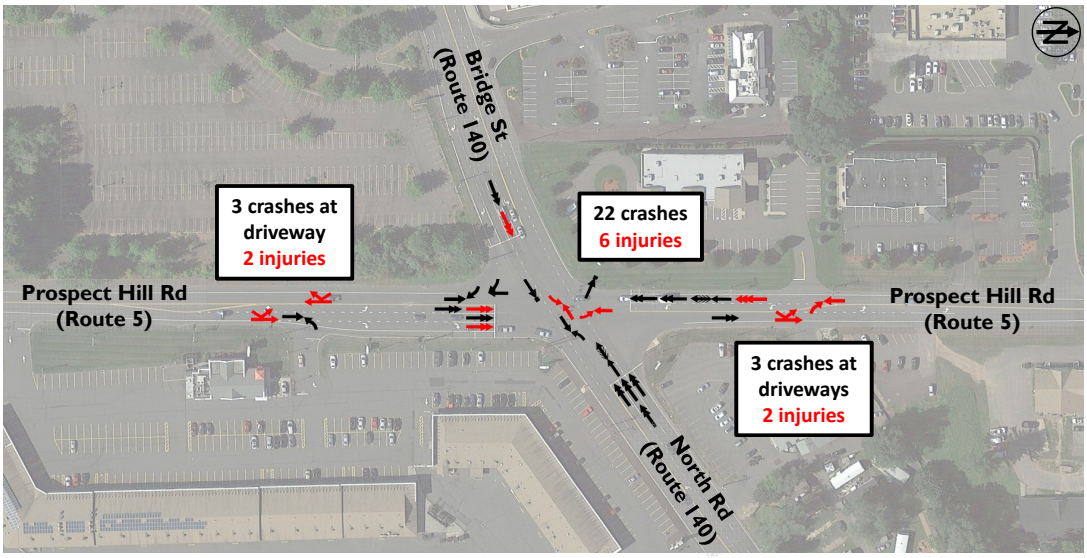
Existing Conditions Analysis



Existing Conditions Analysis

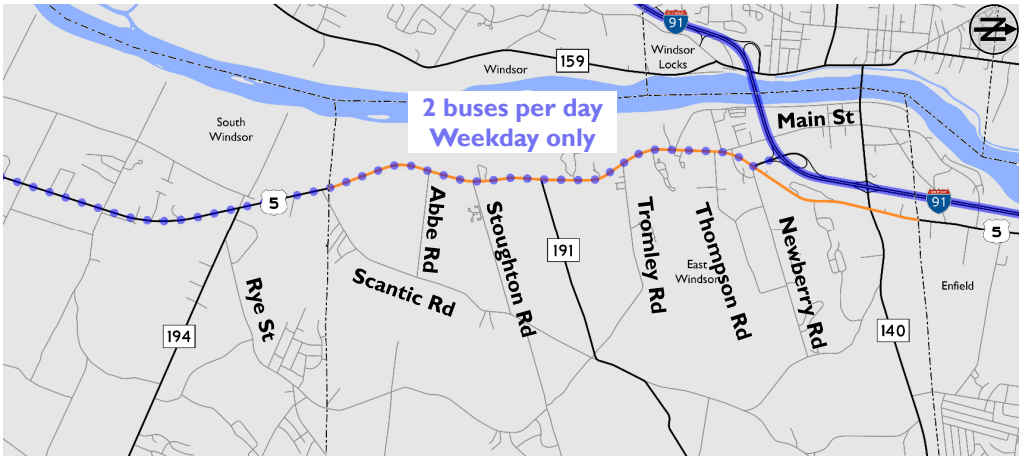


Existing Conditions Analysis



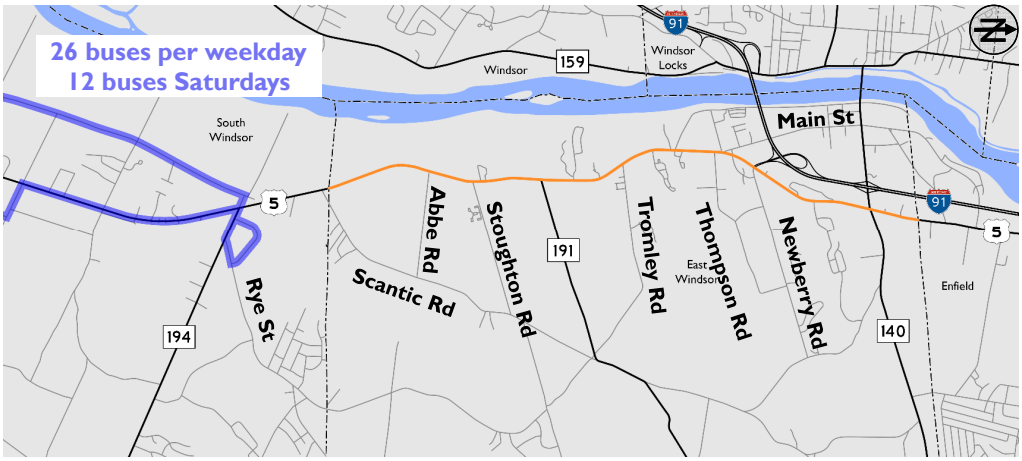
Existing Conditions Analysis

- CT*transit* Route 905



Existing Conditions Analysis

- CT*transit* Route 96



Existing Conditions Analysis

- School Bus Stops

Existing Conditions Analysis

- No Sidewalks, Only One Marked Crosswalk

Existing Conditions Analysis

- Pedestrian Counts at Intersections (7-9 AM)

Existing Conditions Analysis

- Pedestrian Counts at Intersections (4-6 PM)

Existing Conditions Analysis

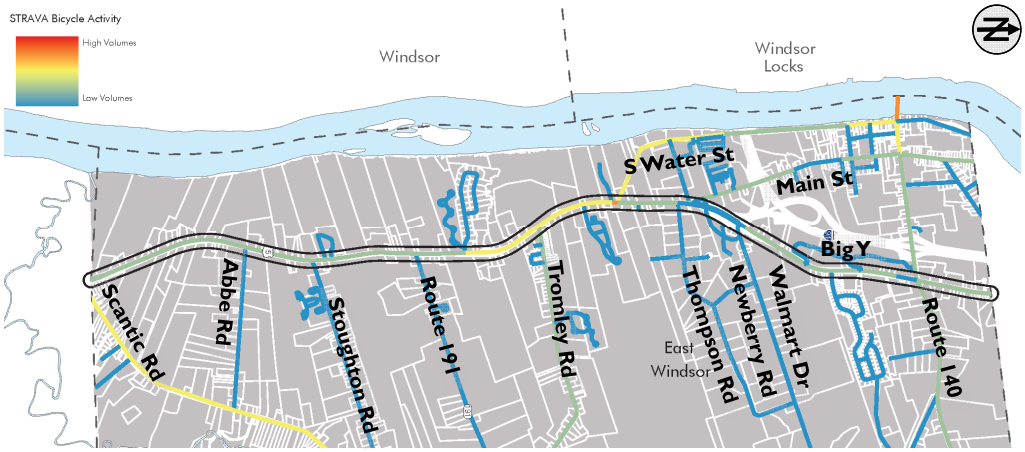
- Bicycle Counts at Intersections (7-9 AM)

Existing Conditions Analysis

- Bicycle Counts at Intersections (4-6 PM)

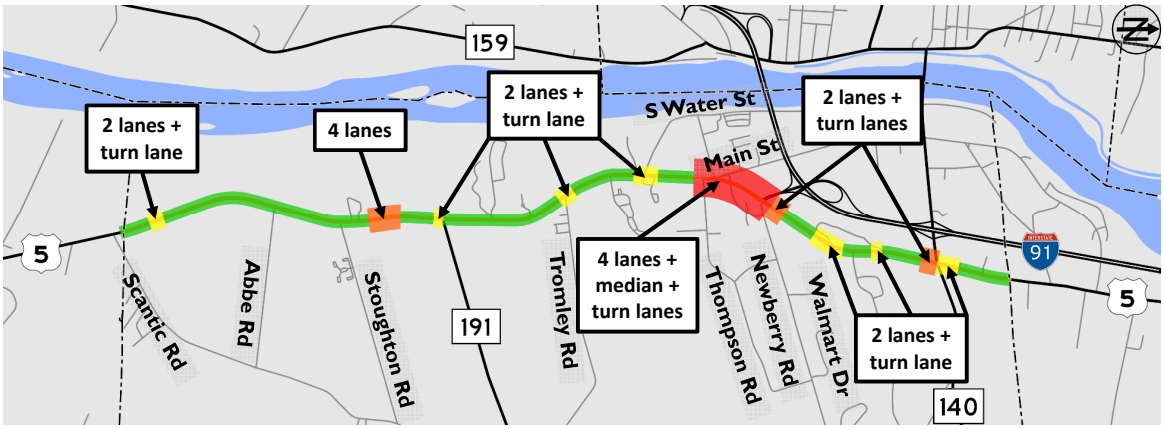
Existing Conditions Analysis

- Strava Bike Use



Existing Conditions Analysis

- Lane Configuration



Existing Conditions Analysis

- Deficient Shoulder Widths

	Design Values
Travel Lane Width	12'
Shoulder Width	4' - 8'
Sidewalk Width	5' minimum
Deficiency	

Existing Conditions Analysis

- Access Management

Existing Conditions Analysis

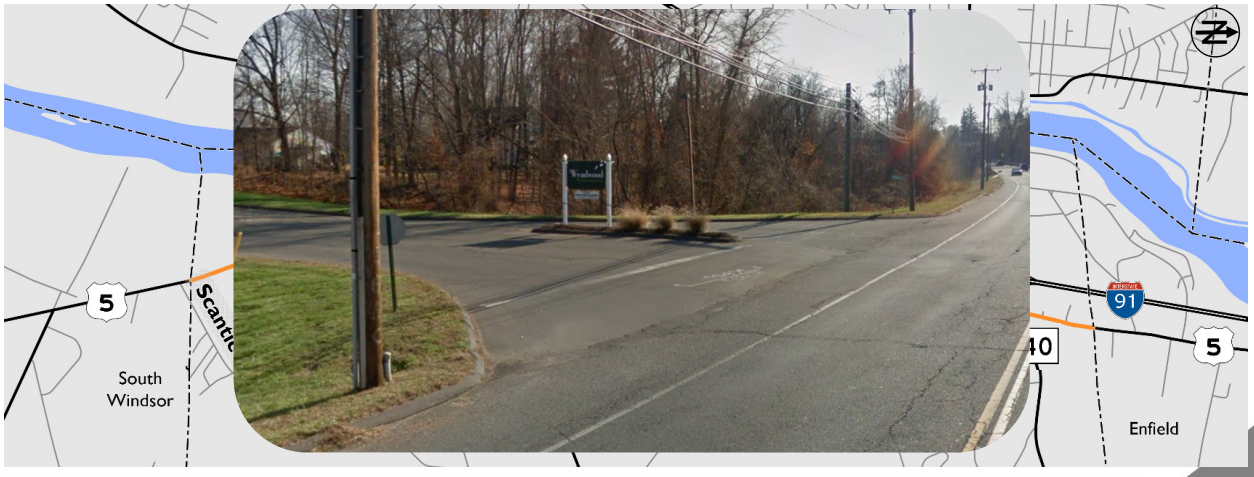
- Access Management

Existing Conditions Analysis

- Access Management

Existing Conditions Analysis

- Access Management



Existing Conditions Analysis

- Access Management

Next Steps

- Finalize Assessment of Existing Conditions
- Stakeholder Outreach
- Public meeting (Fall)
- Newsletter
- Public survey

Public Involvement Plan

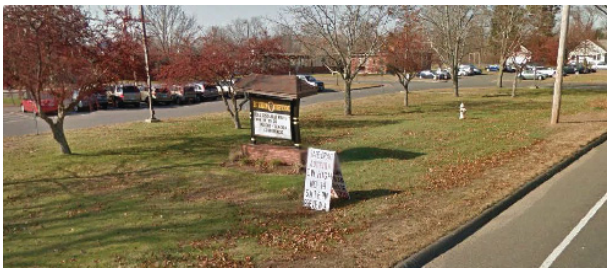
- Stakeholder Meetings
  - Town Planning – Held 5/3
  - Town LTA – Police – Held 5/18
  - Town Emergency Responders – Scheduling
  - Town Board of Ed. / High School – Scheduling
  - Town DPW – Scheduling

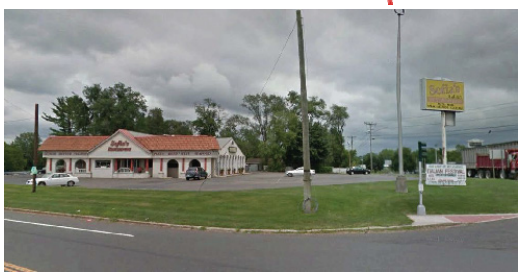
Public Involvement Plan

- Stakeholder Meetings
  - Southern Auto
  - Casino
  - Residential Group
  - Harken's Market / Nutmeg
  - Pasco Commons
  - Walmart
  - Bike / Ped
  - Lincoln Tech

Existing Conditions Analysis

- Pop-up Events
  - Attended Abby's Walk 4/21
  - Plan next for early fall
  - Unless other summer events are worthwhile





Thank you for your time!

Any questions?