



Town of Westwood Petition

Norfolk County Commissioners

Canton Street Improvements

November 18, 2009





Presentation Objective

To address the Town of Canton's opposition to petitions by the Town of Westwood for alteration to a county highway.

To accomplish this we will present the following:

- Project Purpose and Need
- Traffic Analysis Model
- Proposed Alterations
 - Geometry
 - Traffic Analysis Results
- Intersection of Canton Street & Westwood Station Blvd
 - Objectives
 - Geometry
 - Traffic Analysis Results
- Summary



Project Purpose and Need

Purpose and Need



■ Initial Data Collected

- Manual Intersection Counts
- ATR Information
 - Travel Speeds (85th, Max and Average)
- Travel Time Information
 - Comparison of I-95 to Canton Street
- Origin and Destination
 - Number of people cutting thru

Purpose and Need

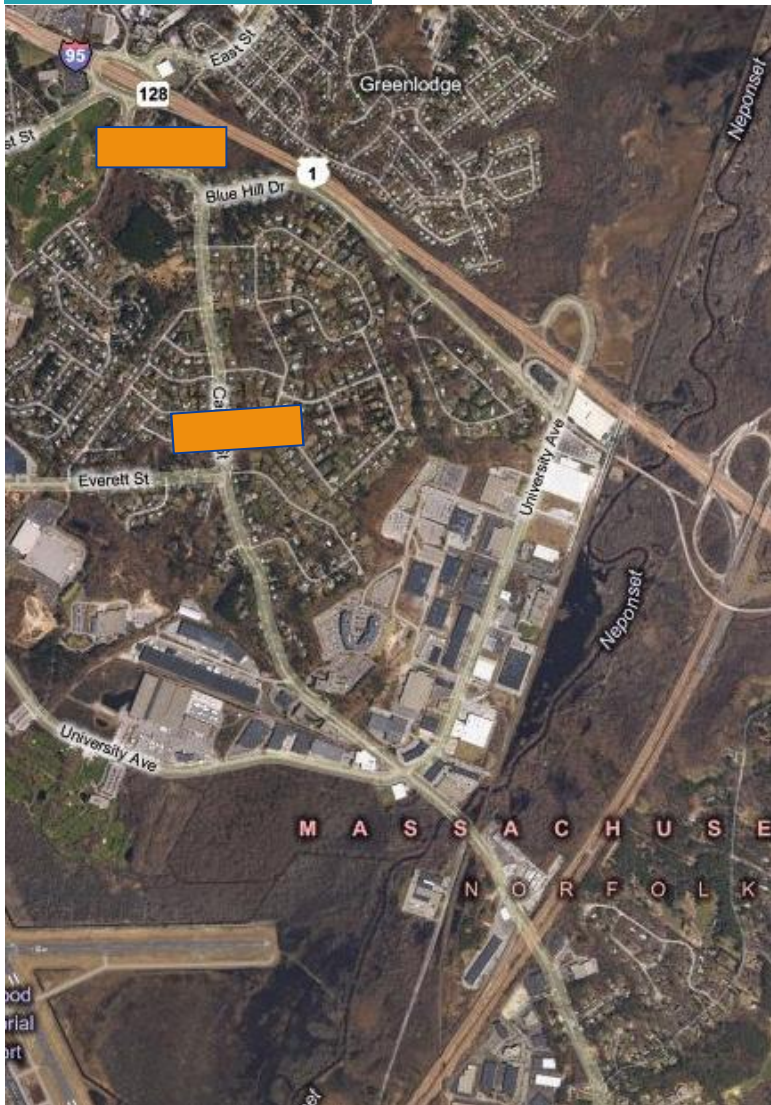
Vehicular Speeds on Canton St.

North of Downey Street*

- 85th Percentile = 37 mph
- Daily Vehicles traveling more than 35mph = 2683
- Maximum speed recorded = 81mph

North of Everett Street*

- 85th Percentile = 40 mph
- Daily Vehicles traveling more than 45mph = 3059
- Maximum speed recorded = 63mph



*Detailed information provided on attached CD



Purpose and Need

Traffic Safety Facts

2007 Data

www.nhtsa.gov

NHTSA

DOT HS 810 998

Speeding

Table 1

Speeding-Related Traffic Fatalities by Road Type and Speed Limit, 2007

State	Total Traffic Fatalities	Speeding-Related Fatalities by Road Type and Speed Limit								
		Total	Interstate		Non-Interstate					
			>55 mph	≤55 mph	55 mph	50 mph	45 mph	40 mph	35 mph	<35 mph
MA	417	140	18	5	8	4	8	18	19	55

In Addition, if a vehicle hits a pedestrian:

- at 20 mph 5% will die
- at 30 mph 45% will die
- at 40 mph 85% will die



Purpose and Need



Southbound Cut Through Traffic*

	2-3	3-4	4-5	5-6	6-7
Weekday	31	96	138	112	62
Weekend	78	47	93	77	59

5 hour Weekday Total = 439 Vehicles

5 hour Weekend Total = 354 Vehicles

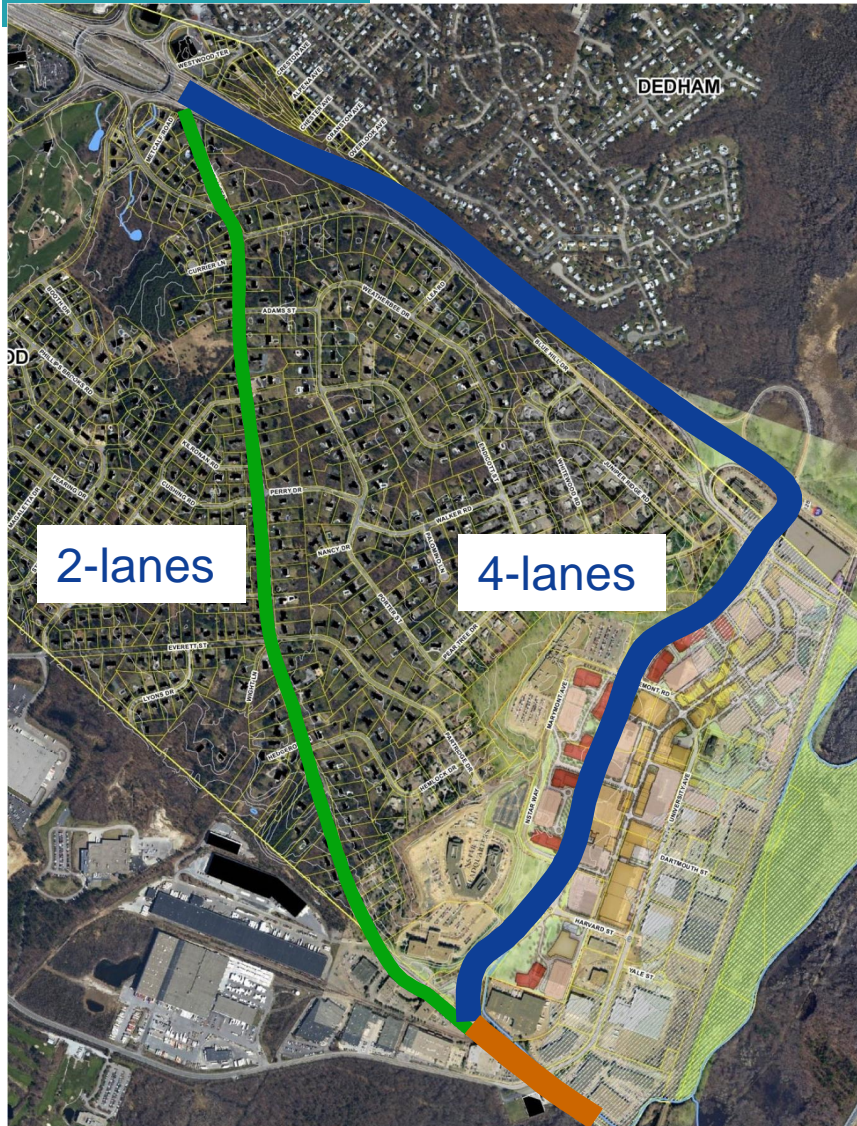
Southbound Travel Time (seconds)*

	2-3	3-4	4-5	5-6	6-7
Canton St	295	320	351	344	284
I-95	237	329	308	367	249

*Detailed information provided on attached CD



Purpose and Need



Westwood Station development

- Provides additional route option between Canton and Dedham (WWSB)
- 4 Travel Lanes
- Direct Access to I-95
- Improvements South of WWSB



Traffic Analysis Model



Traffic Analysis

Synchro and SimTraffic Traffic Analysis



Simulation Modeling

Purpose and Need

Additional Data Collected

- Field Signal Timings
- General Observations of Driver Behavior
- Turning Speeds
- Queuing information
- Vehicles Processed on Green
- Sneakers on yellow/red

**Detailed information provided on attached CD*





Simulation Model Calibration

AM Peak Travel Times - Canton/Dedham St (May 2008)			
Direction	Route Segment	Field Travel Times (s)	SimTraffic Travel Time (s)
Southbound (8AM-9AM)	Rotary to Everett St	130	123
	Everett St to University Ave	96	118
	University Ave to I-95 On-Ramp	61	89
	I-95 On-Ramp to Proposed Off-Ramp	16	9
	Total	303	339
Northbound (8AM-9AM)	Proposed Off-Ramp to I-95 On-Ramp	15	15
	I-95 On-Ramp to University Ave	122	152
	University Ave to Everett Street	94	94
	Everett St to Rotary	204	216*
	Total	435	477

* Rotary was not simulated. Recorded NB delay at Rotary was added to Simulated travel time



Simulation Model Calibration

PM Peak Travel Times - Canton/Dedham St (May 2008)			
Direction	Route Segment	Field Travel Times (s)	SimTraffic Travel Time (s)
Southbound (4:45-5:45PM)	Rotary to Everett St	127	131
	Everett St to University Ave	205	230
	University Ave to I-95 On-Ramp	52	63
	I-95 On-Ramp to Proposed Off-Ramp	14	9
	Total	398	433
Northbound (4:45-5:45PM)	Proposed Off-Ramp to I-95 On-Ramp	14	9
	I-95 On-Ramp to University Ave	90	74
	University Ave to Everett Street	83	91
	Everett St to Rotary	171	177*
	Total	358	351

* Rotary was not simulated. Recorded NB delay at Rotary was added to Simulated travel time



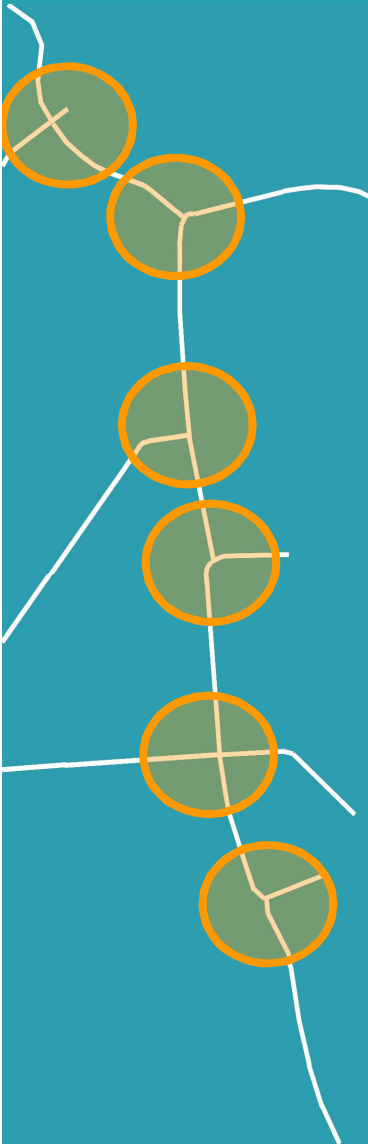
Proposed Alterations

- Geometry
- Traffic Analysis Results



Proposed County Way Alterations

- Canton Street and Downey/Metcalf
- Canton Street and Blue Hill Drive
- Canton Street and Forbes Road
- Canton Street and Perry Drive
- Canton Street and Everett Street
- Canton Street and Hemlock Street
- Everett Street and Forbes Road
- Everett Street and Lyons Drive



Proposed Canton Street Alterations

- Canton Street and Downey



- **Speed Tables (22ft):**

- Wider than speed humps
- Typically 22-32 feet
- Reduction of approximately 7mph (18%) in the 85% speeds*

* From "Traffic Calming, State of the Practice", ITE 1999

Proposed Canton Street Alterations

■ Canton Street and Downey

Proposed Change – Speed Tables Result in:

- Reduction in approach speeds
- Reduction in side-street delay
- Reduction in northbound delay (left turns)
- Increase in southbound delay

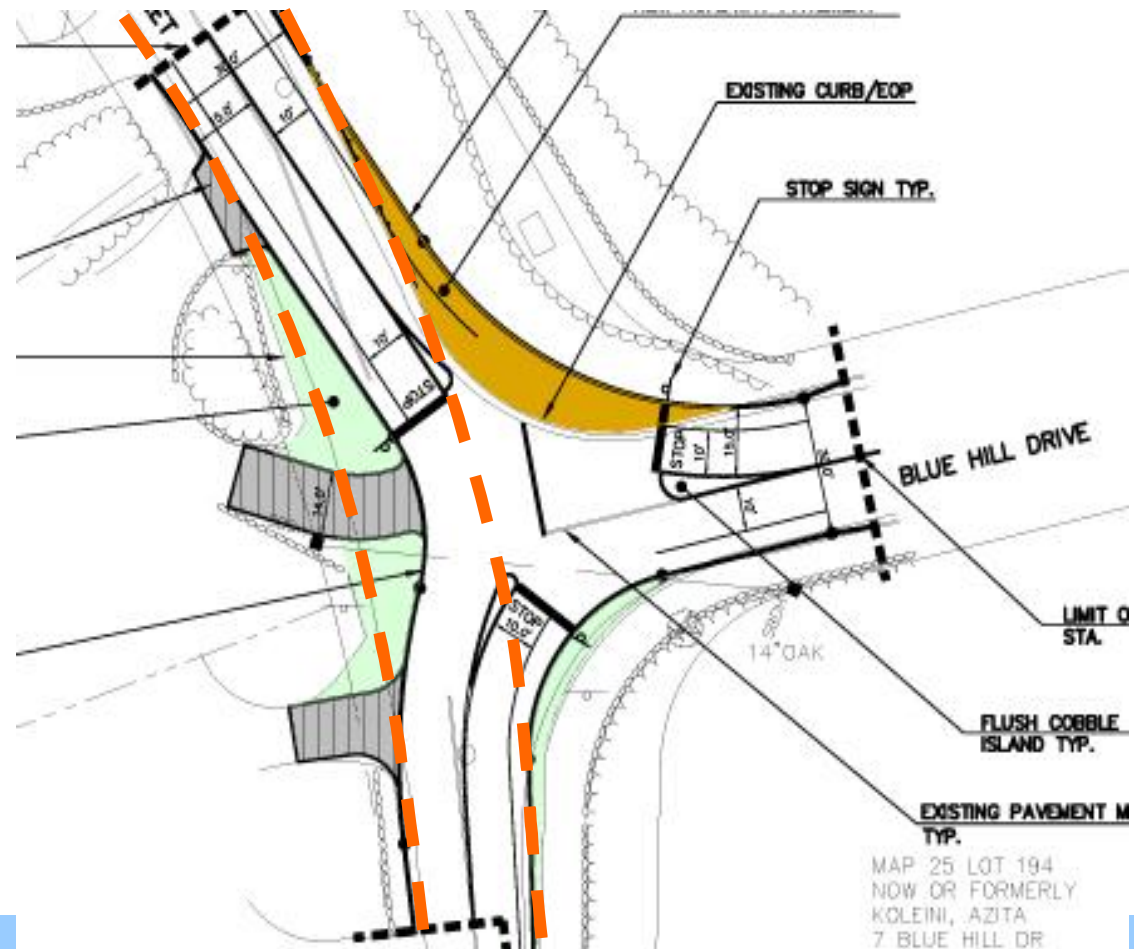
Approach Delay - seconds/vehicle*
AM(PM)

	EB	WB	NB	SB
Without TC	13.2 (12.7)	7.6 (19.9)	4.1 (3.6)	0.9 (1.3)
With TC	7.4 (11.8)	5.2 (5.3)	1.8 (2.4)	1.2 (1.9)

**Detailed information provided on attached CD*

Proposed Canton Street Alterations

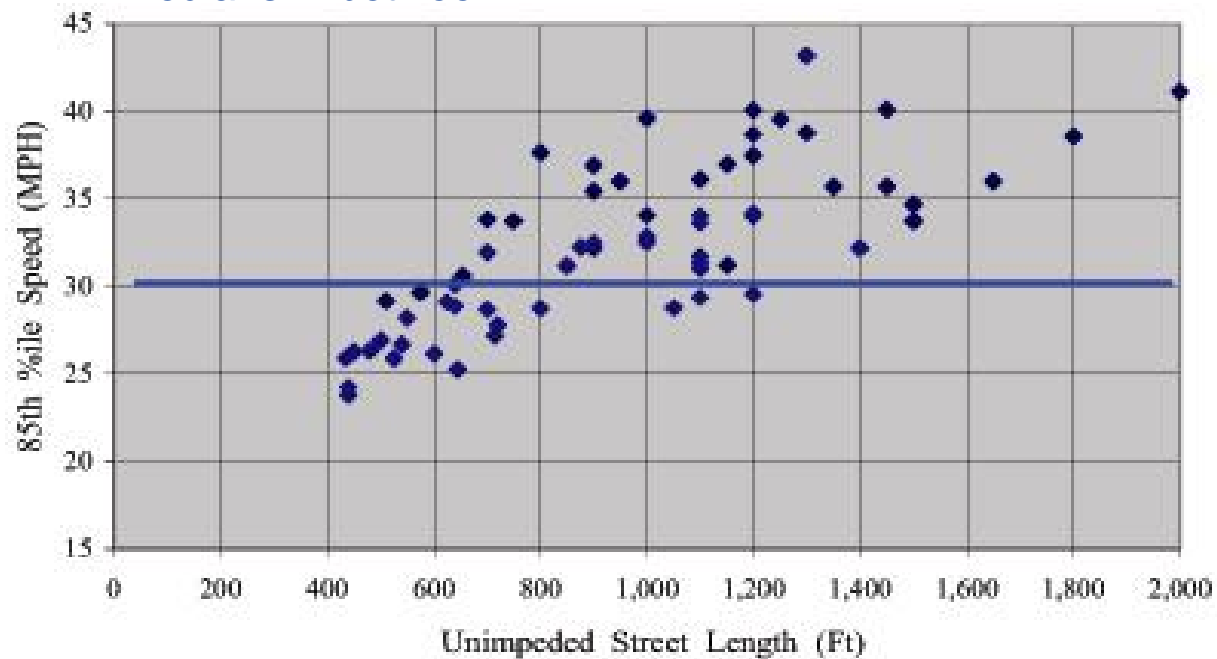
- Canton Street and Blue Hill Dr.
Realigned Intersection



Proposed Canton Street Alterations

REALIGNED INTERSECTIONS:

- Reduce Speeds
- interrupt long straight sections of road
- Canton, Everett, and Forbes currently have straightaways over 2000' long
- Proposed Intersection realignments are 1,000' apart with medians in between



Proposed Canton Street Alterations

- Canton Street and Blue Hill Drive
REALIGNED INTERSECTION EXAMPLE



Proposed Canton Street Alterations

■ Canton Street and Blue Hill Drive

Proposed Change – Realigned Intersection Results in:

- Reduction in approach speeds
- Reduction in side-street delay
- Increase in northbound delay
- Increase in southbound delay

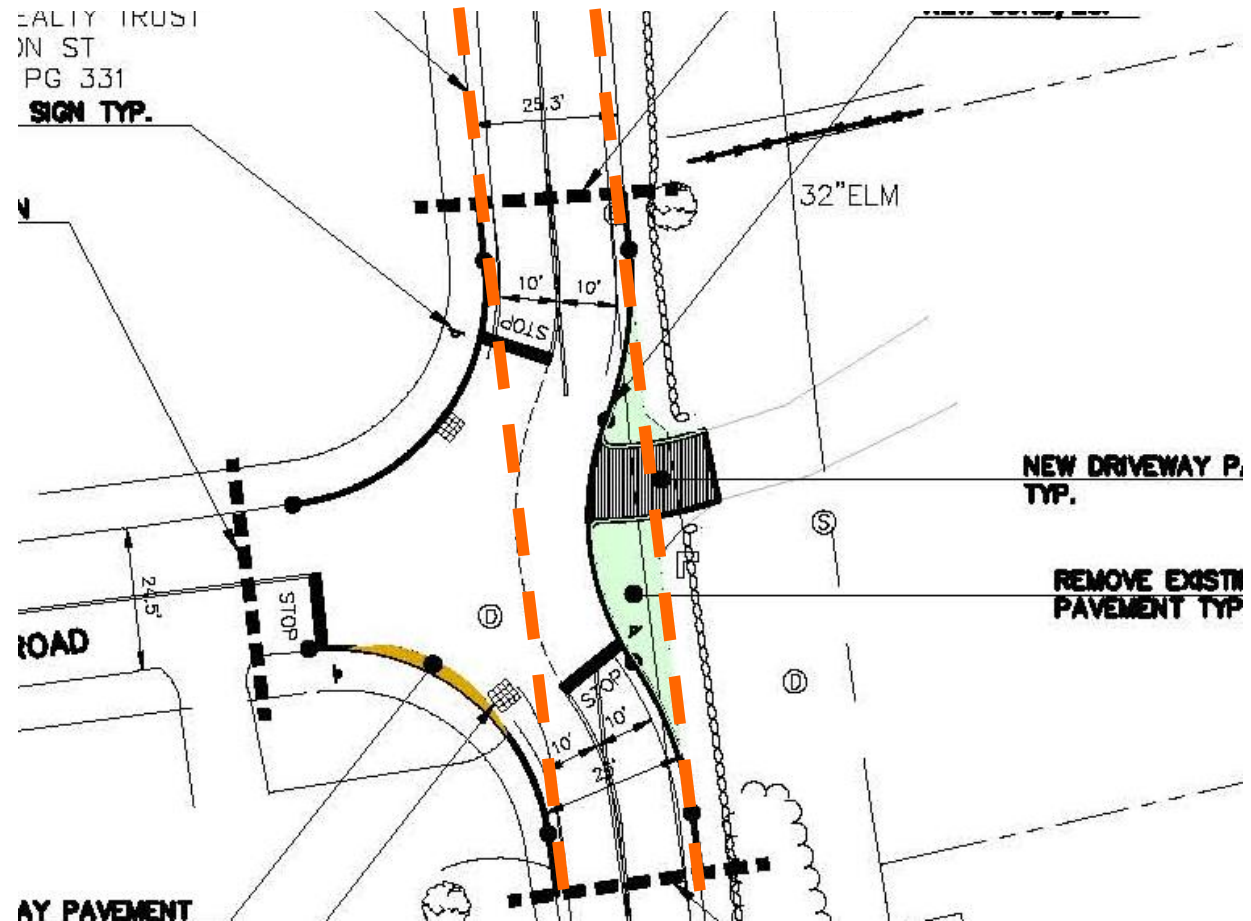
Approach Delay - seconds/vehicle*
AM(PM)

	EB	WB	NB	SB
Without TC	-	17.2 (13.5)	3.0 (2.2)	1.1 (2.6)
With TC	-	6.0 (6.8)	13.6 (10.2)	4.0 (12.3)

*Detailed information provided on attached CD

Proposed Canton Street Alterations

- Canton Street and Forbes Road Realigned Intersection



Proposed Canton Street Alterations

■ Canton Street and Forbes Road

Proposed Change – Realigned Intersection Results in:

- Reduction in approach speeds
- Reduction in side-street delay
- Increase in northbound delay
- Increase in southbound delay

Approach Delay - seconds/vehicle*
AM(PM)

	EB	WB	NB	SB
Without TC	13.7 (14.3)	-	3.0 (2.2)	1.1 (2.6)
With TC	5.2 (5.1)	-	13.7 (11.4)	9.4 (11.2)

*Detailed information provided on attached CD

Proposed Canton Street Alterations

■ Canton Street and Perry Drive

Proposed Change – Realigned Intersection Results in:

- Reduction in approach speeds
- Reduction in side-street delay
- Increase in northbound delay
- Increase in southbound delay

Approach Delay - seconds/vehicle*
AM(PM)

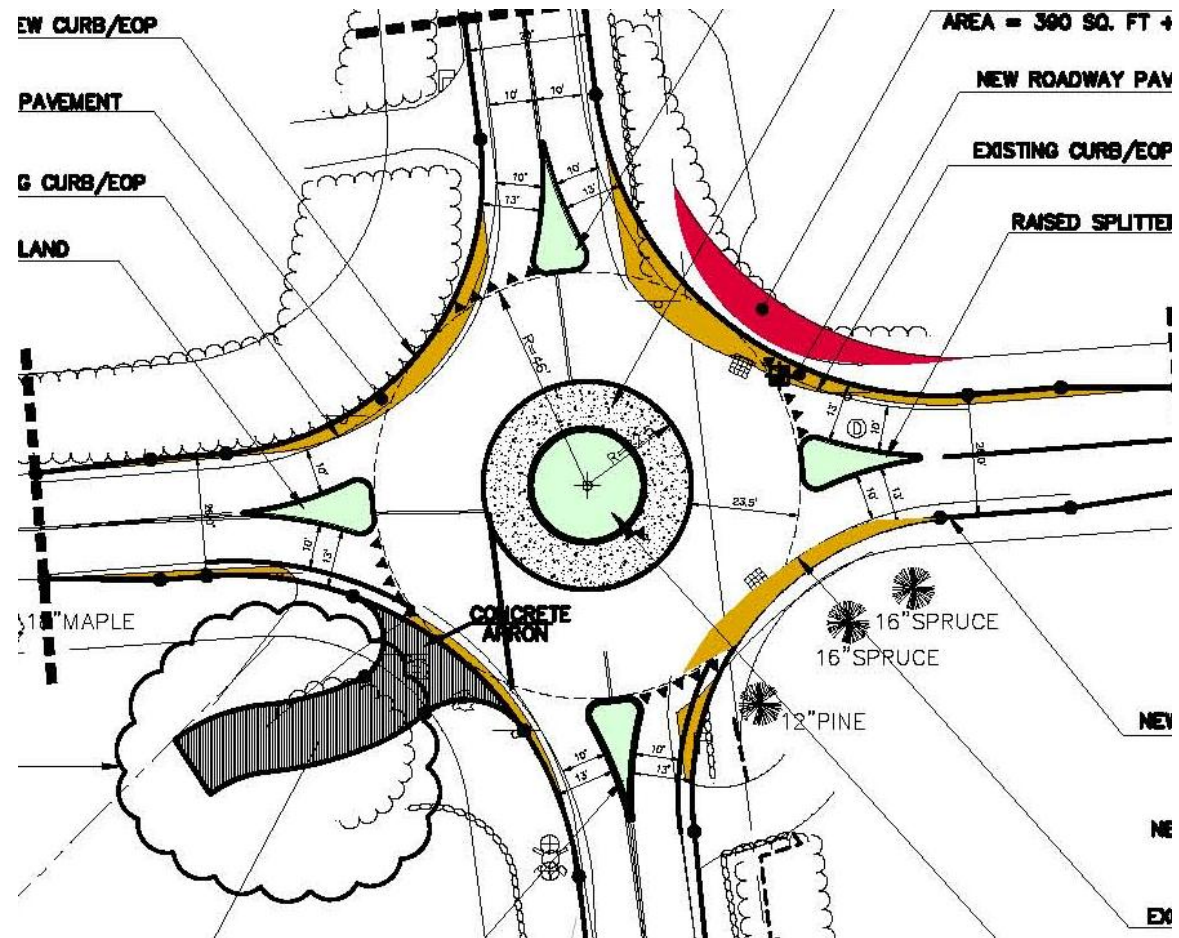
	EB	WB	NB	SB
Without TC	-	10.2 (8.4)	2.2 (1.8)	1.7 (1.7)
With TC	-	4.8 (4.4)	11.6 (9.5)	8.2 (9.3)





Proposed Canton Street Alterations

■ Canton Street and Everett Street Roundabout

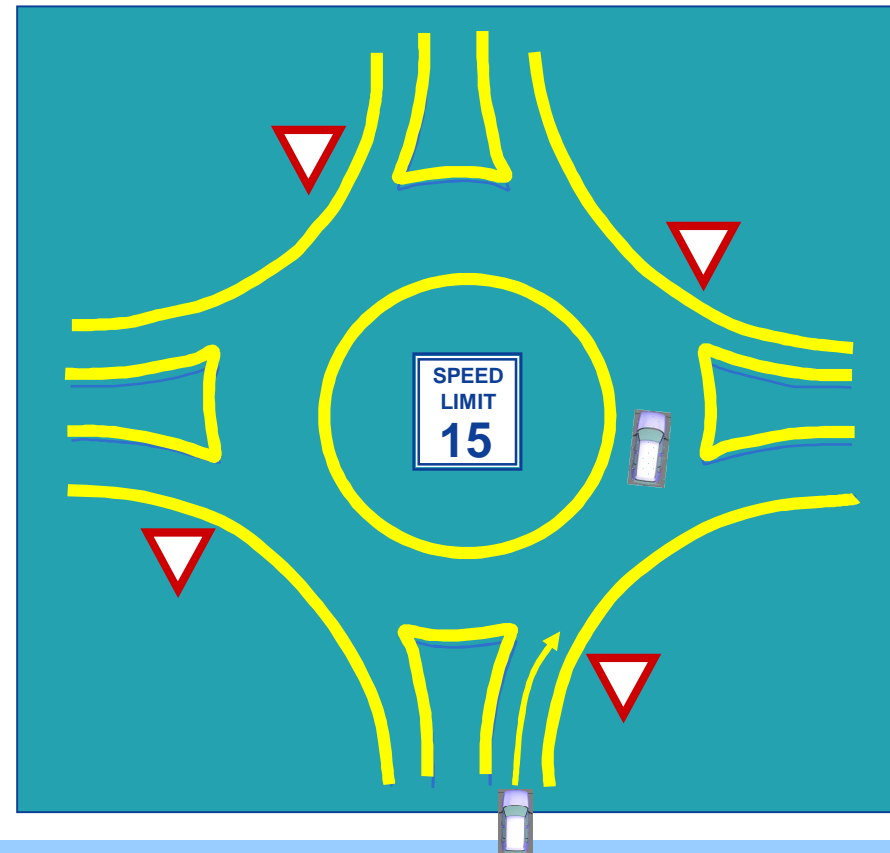


Proposed Canton Street Alterations

What is a Modern Roundabout?

A roundabout is a form of intersection control, generally circular in shape with specific design and operations characteristics

- Yield on Entry
- Deflection on Entry
- Splitter islands
- Central Island
- Slow circulating speeds



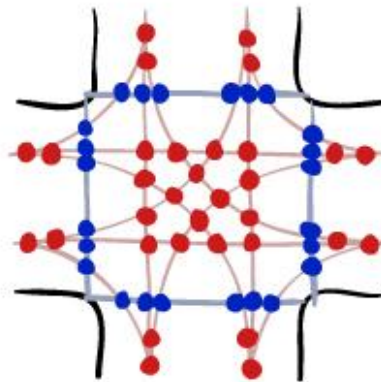
Proposed Canton Street Alterations

■ Canton Street and Everett Street

A 2001 Study by the Insurance Institute for Highway Safety showed that roundabouts:

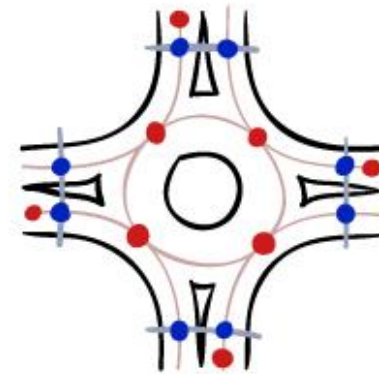
- Reduced crashes by up to 40%
- Reduced injury crashes by up to 80%
- Reduced fatal or incapacitating crashes by 90%

Typical Intersection

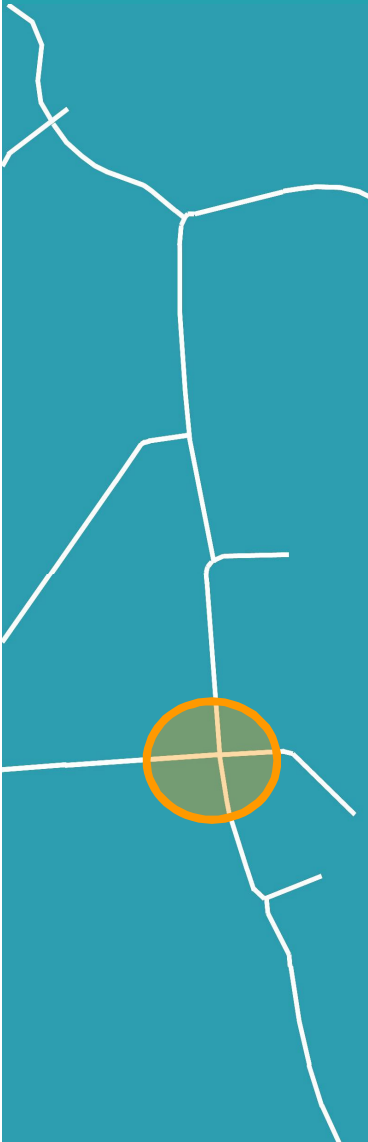


- 32 Vehicle to Vehicle Conflict
- 24 Vehicle to Pedestrian Conflicts

Typical Roundabout



- 8 Vehicle to Vehicle Conflict
- 8 Vehicle to Pedestrian Conflicts



Proposed Canton Street Alterations

■ Canton Street and Everett Street

Proposed Change – Roundabout Results in:

- Reduction in approach speeds
- Reduction in side-street delay
- Increase in main-street delay
- Delay on all approaches <10 seconds

Approach Delay - seconds/vehicle*

AM(PM)

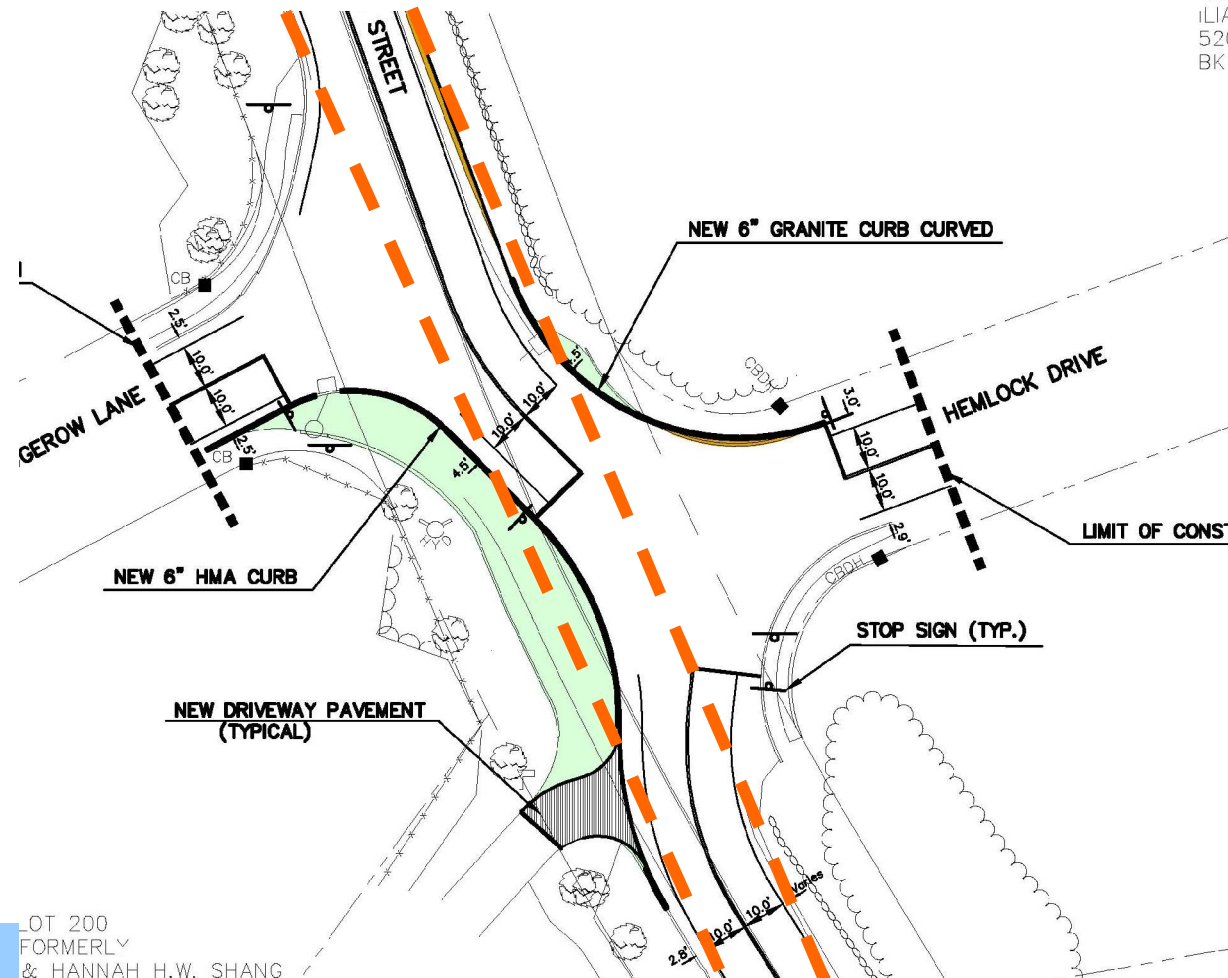
	EB	WB	NB	SB
Without TC	10.2 (12.6)	6.7 (8.1)	2.2 (2.7)	2.0 (3.0)
With TC	4.5 (4.2)	4.3 (3.9)	6.7 (6.2)	5.2 (6.1)

*Detailed information provided on attached CD

Proposed Canton Street Alterations

- Canton Street and Hemlock Street Realigned Intersection

NO
ILI/
521
BK



LOT 200
FORMERLY
& HANNAH H.W. SHANG

Proposed Canton Street Alterations

■ Canton Street and Hemlock Street

Proposed Change – Realigned Intersection Results in:

- Reduction in approach speeds
- Reduction in AM side-street delay
- Increase in northbound delay
- Increase in southbound delay

Approach Delay - seconds/vehicle*
AM(PM)

	EB	WB	NB	SB
Without TC	-	8.3 (6.8)	2.7 (2.4)	1.0 (1.5)
With TC	-	6.0 (8.5)	13.7 (11.3)	3.4 (3.8)

*Detailed information provided on attached CD



Proposed Canton Street Alterations

■ Canton Street Corridor (Rotary-WWSB)

Proposed Changes Results in:

- Reduction in average travel speeds along the corridor
- Increase in travel time between East Street Rotary and Westwood Station Boulevard

AM Northbound	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>
<i>Travel Time (secs)</i>	189	258 (+37%)
<i>Average Speed (mph)</i>	34	25 (-27%)

PM Southbound	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>
<i>Travel Time (secs)</i>	204	265 (+30%)
<i>Average Speed (mph)</i>	32	24 (-23%)

**Detailed information provided on attached CD*



Proposed Canton Street Alterations

AM Northbound Travel Time & Speeds (Rotary-WWSB)

Travel Time (seconds)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>WWSB – Everett</i>	76	99	23 (+30%)
<i>Everett – Forbes</i>	43	75	32 (+74%)
<i>Forbes – Rotary</i>	70	84	14 (+20%)
<i>Total</i>	189	258	69 (+37%)

Average Speed (mph)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>WWSB – Everett</i>	33	25	8 (-23%)
<i>Everett – Forbes</i>	33	19	14 (-43%)
<i>Forbes – Rotary</i>	36	30	6 (-17%)
<i>Average</i>	34	25	9 (-27%)



Proposed Canton Street Alterations

PM Northbound Travel Time & Speeds (Rotary-WWSB)

Travel Time (seconds)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>WWSB – Everett</i>	77	96	19 (+25%)
<i>Everett – Forbes</i>	42	70	28 (+67%)
<i>Forbes – Rotary</i>	67	80	13 (+19%)
<i>Total</i>	186	246	60 (+32%)

Average Speed (mph)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>WWSB – Everett</i>	33	26	7 (-20%)
<i>Everett – Forbes</i>	34	21	13 (-40%)
<i>Forbes – Rotary</i>	38	32	6 (-16%)
<i>Average</i>	35	26	9 (-24%)



Proposed Canton Street Alterations

AM Southbound Travel Time & Speeds (Rotary-WWSB)

Travel Time (seconds)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>Rotary – Forbes</i>	65	87	22 (+33%)
<i>Forbes – Everett</i>	42	58	16 (+38%)
<i>Everett – WWSB</i>	79	93	14 (+18%)
<i>Total</i>	186	238	52 (+28%)

Average Speed (mph)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>Rotary – Forbes</i>	39	29	10 (-25%)
<i>Forbes – Everett</i>	34	25	9 (-28%)
<i>Everett – WWSB</i>	32	27	5 (-15%)
<i>Average</i>	35	27	8 (-22%)



Proposed Canton Street Alterations

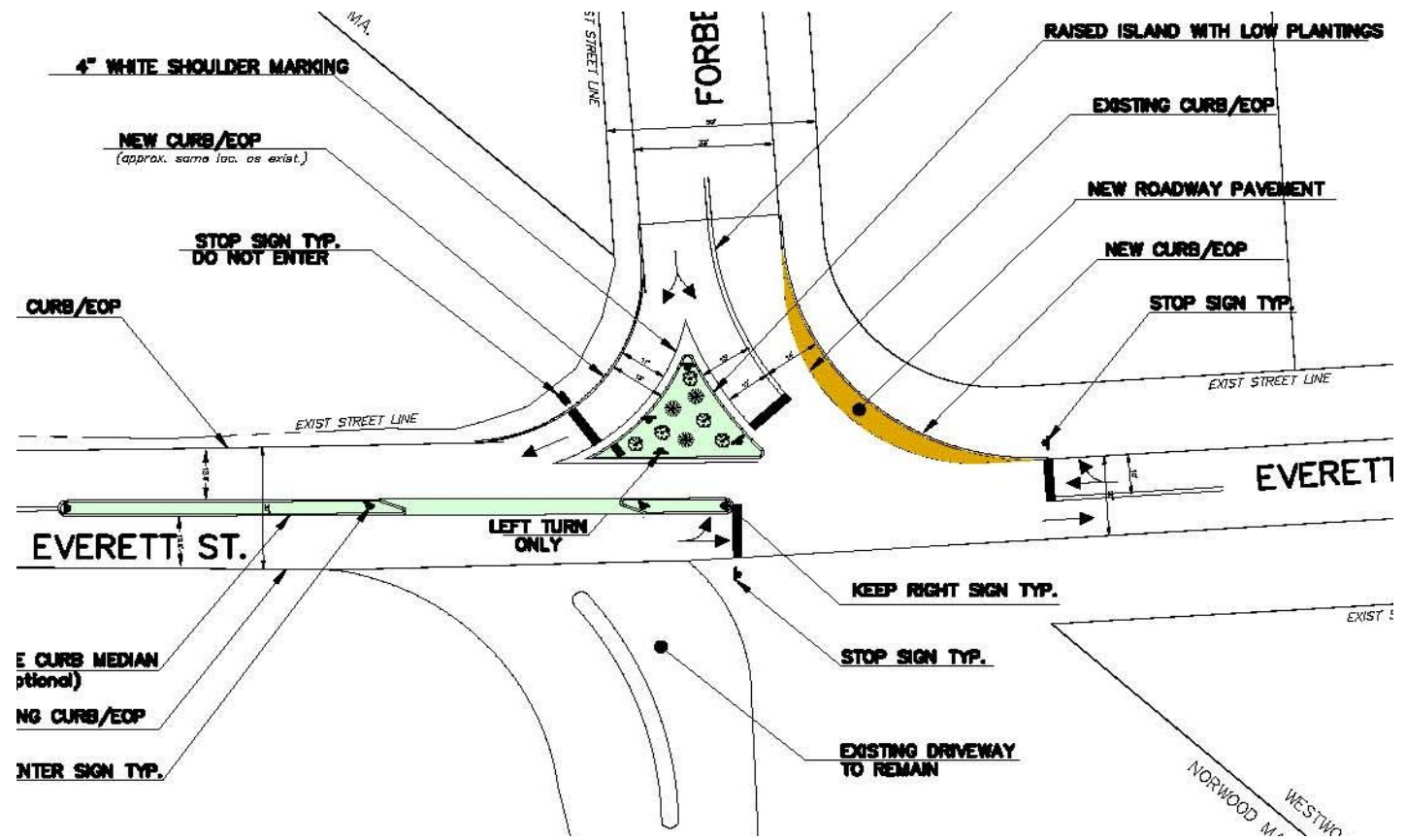
PM Southbound Travel Time & Speeds (Rotary-WWSB)

Travel Time (seconds)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>Rotary – Forbes</i>	70	99	29 (+41%)
<i>Forbes – Everett</i>	44	61	17 (+39%)
<i>Everett – WWSB</i>	90	105	15 (+17%)
<i>Total</i>	204	265	61 (+30%)

Average Speed (mph)	<i>Without Traffic Calming</i>	<i>With Traffic Calming</i>	<i>Difference</i>
<i>Rotary – Forbes</i>	36	25	11 (-29%)
<i>Forbes – Everett</i>	33	24	9 (-28%)
<i>Everett – WWSB</i>	28	24	4 (-14%)
<i>Average</i>	32	24	8 (-23%)

Proposed Everett Street Alterations

- Forbes Street and Everett Street





Proposed Everett Street Alterations

- Everett Street and Lyons Drive
 - Speed Tables
 - Similar to Canton Street near Downey/Metcalf



Intersection of Canton Street and Westwood Station boulevard

- Objectives
- Geometry
- Analysis



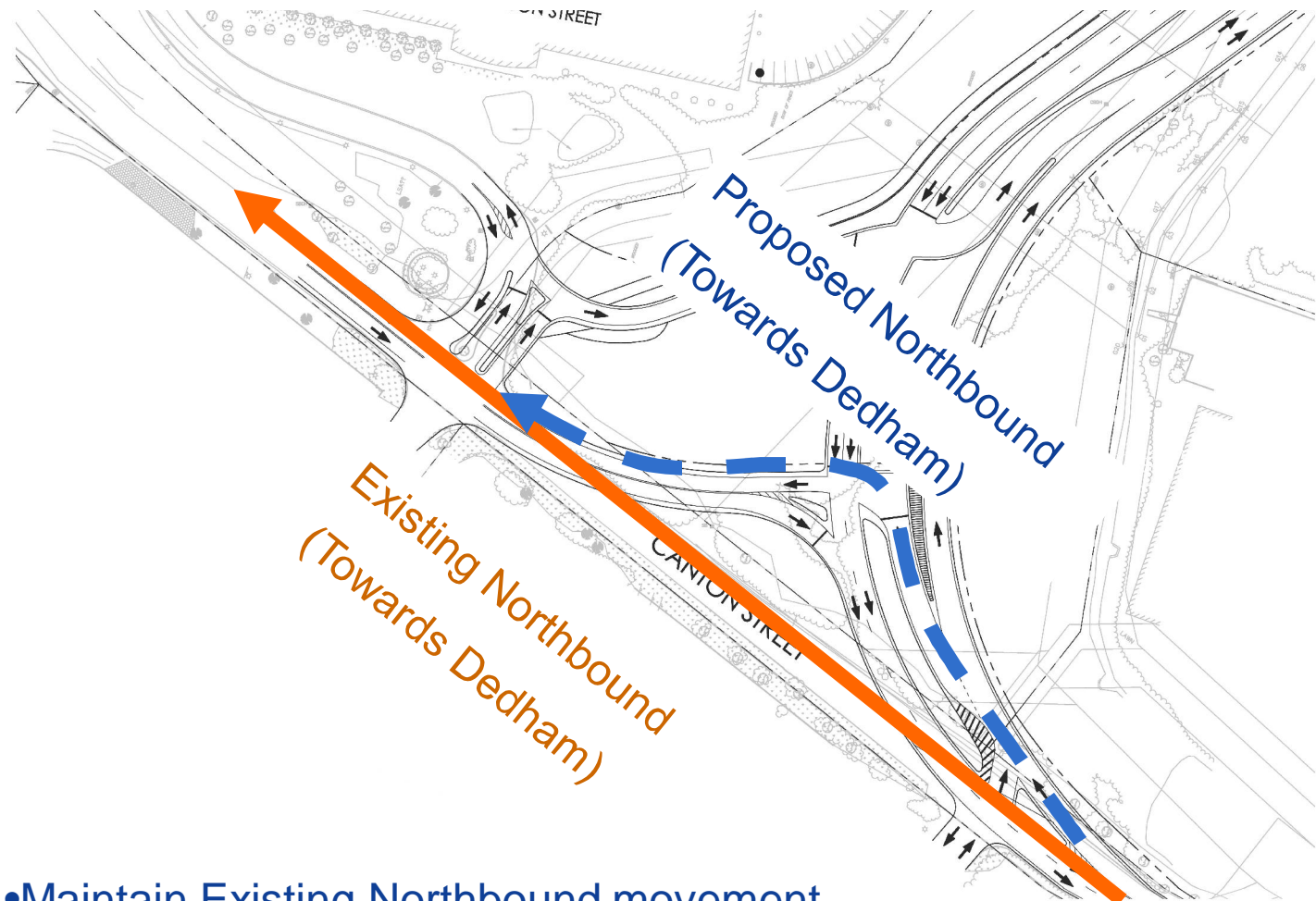
Proposed Canton Street and WWSB

Design Objectives

- Maintain existing northbound and southbound movements
- Prohibit NEW movements to and from Westwood Station
 - No right turn from WWSB onto Canton Street
 - No left turns into WWS from Canton Street
- Restricted access to WWSB for Oceana Way & 690 Canton

Proposed Canton Street and WWSB

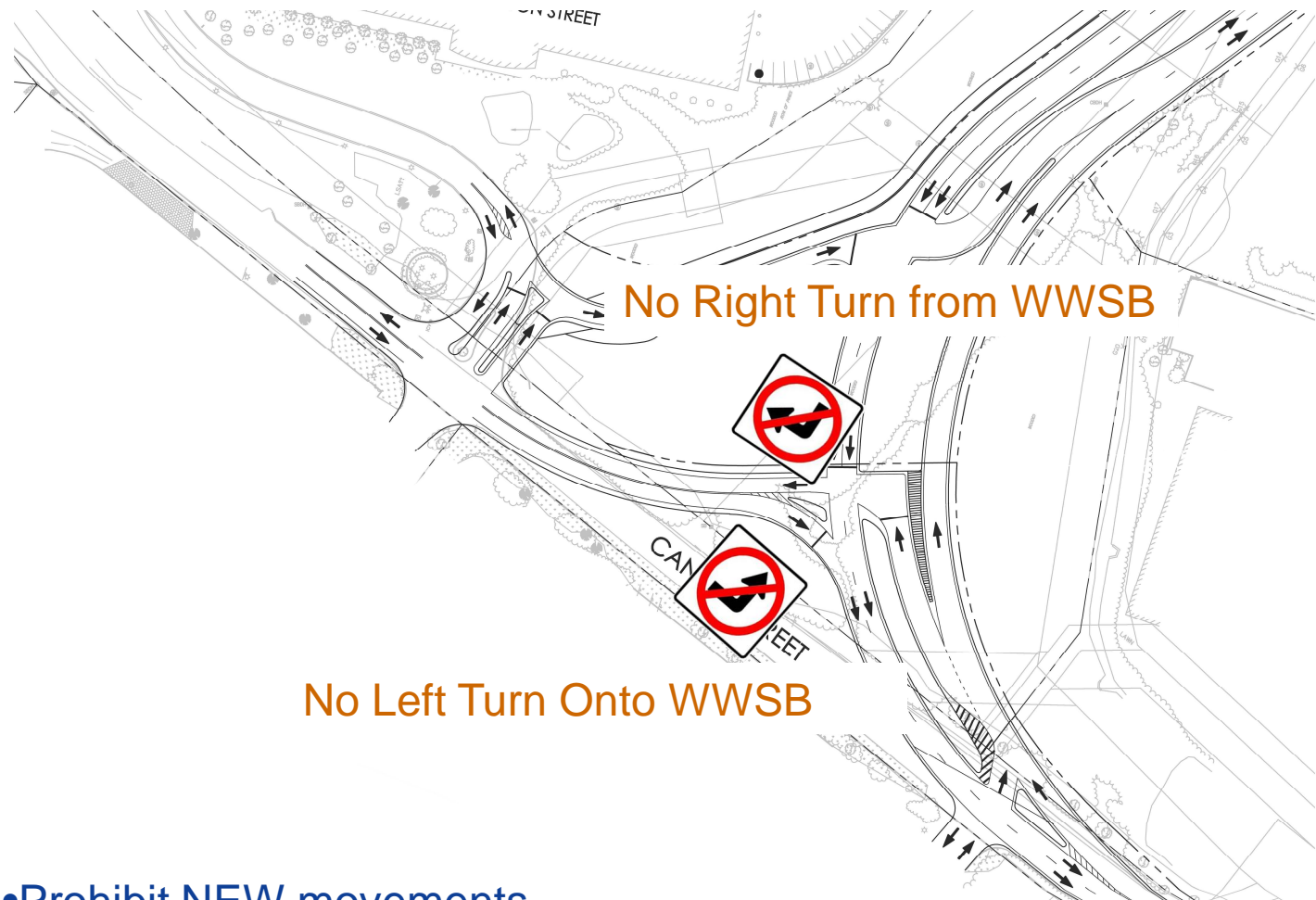
- Design Objectives



- Maintain Existing Northbound movement

Proposed Canton Street and WWSB

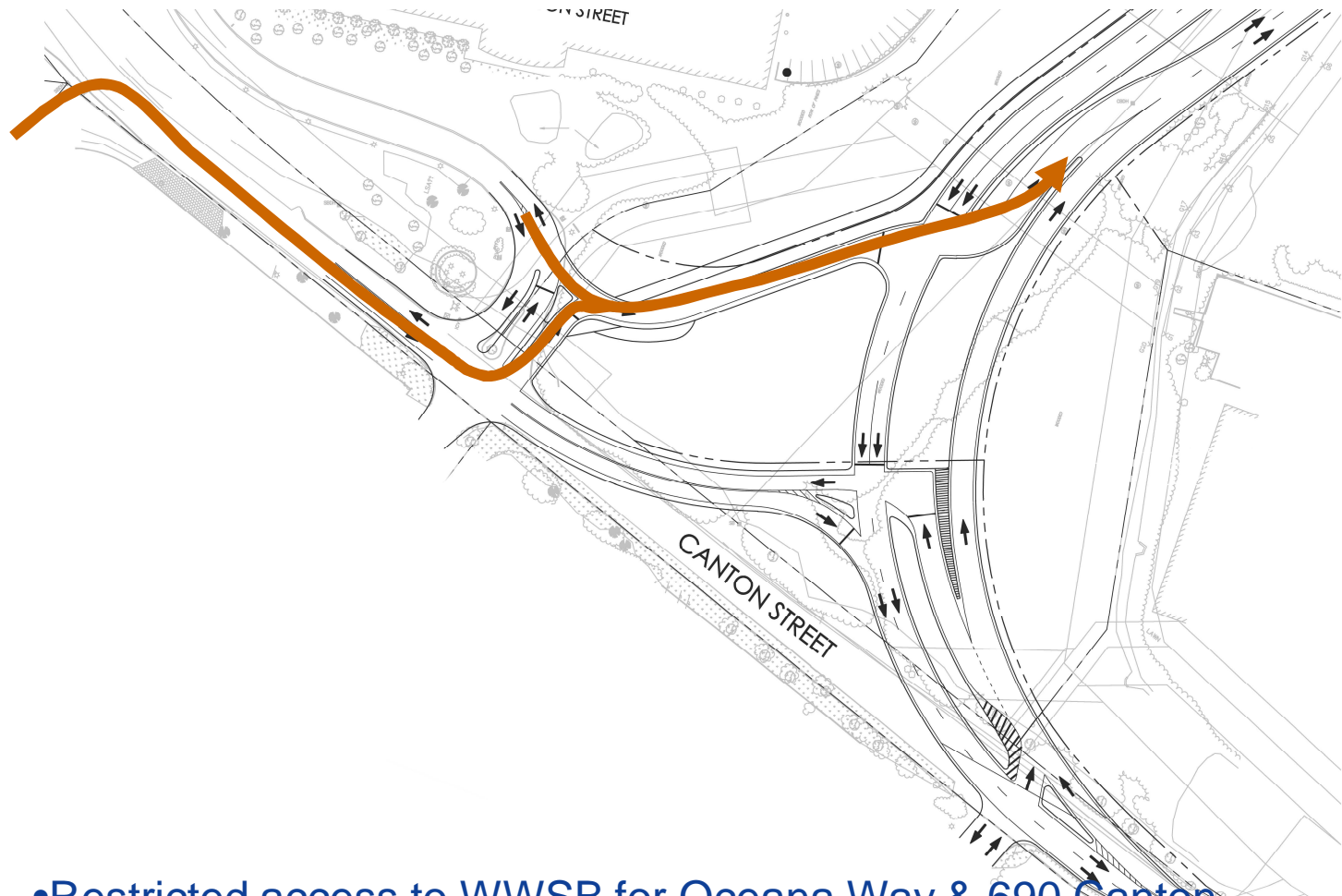
- Design Objectives



- Prohibit NEW movements

Proposed Canton Street and WWSB

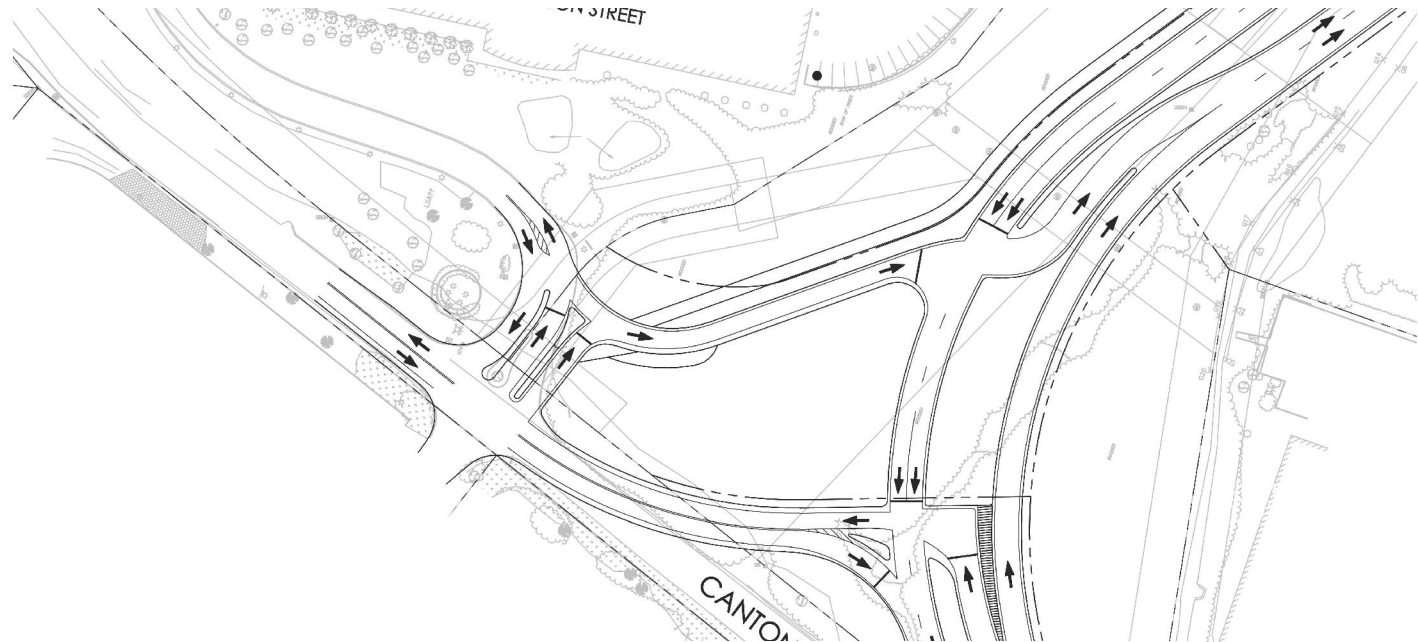
- Design Objectives



- Restricted access to WWSB for Oceana Way & 690 Canton

Proposed Canton Street and WWSB

■ Geometric Information



- Design Approved by Mass Highway
- Designed to AASHTO and Mass Highway Standards
- Consensus from Westwood Selectmen
- Consensus from Canton Street Residents



Proposed Canton Street and WWSB

■ Intersection Analysis

- MUTCD Signal Warrant Analysis
 - Based on the 2015 traffic projections a traffic signal is not warranted at this time.
 - Signal warrants will be re-evaluated following construction



Proposed Canton Street and WWSB

- Intersection Analysis – 2015 AM Peak

Synchro 7 - C:\Orla P...tersection Analysis\2015 AM Level 1 TC- West T4.syn

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41 Canton St #1 #5 & WWSB #4

NODE SETTINGS		SIGNING SETTINGS		EBL	EBR	NBL	NBT	SBT	SBR
Node #	41	Lanes and Sharing (#RL)			↗	↖	↕	↕	
Zone:	B	Traffic Volume (vph)	0	277	644	287	323	0	
X East (ft):	3325	Sign Control	Stop	—	—	Free	Free	—	
Y North (ft):	3953	Median Width (ft)	0	—	—	20	24	—	
Z Elevation (ft):	86	TW/LTL Median	<input type="checkbox"/>	—	—	<input type="checkbox"/>	<input type="checkbox"/>	—	
Description		Right Turn Channelized	—	Yield	—	None	—	None	
Control Type	Unsig	Critical Gap, tC (s)	—	6.9	4.1	—	—	—	
Max v/c Ratio:	0.58	Follow Up Time, tF (s)	—	3.3	2.2	—	—	—	
Intersection Delay (s):	7.2	Volume to Capacity Ratio	—	0.36	0.58	0.18	0.10	—	
Intersection LOS:	—	Control Delay (s)	—	11.7	12.0	0.0	0.0	—	
ICU:	0.51	Level of Service	—	B	B	A	A	—	
ICU LOS:	A	Queue Length 95th (ft)	—	33	78	0	0	—	



Proposed Canton Street and WWSB

- Intersection Analysis – 2015 PM Peak

Synchro 7 - C:\Orla P...tersection Analysis\2015 PM Level 1 TC- West T4.syn

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41 Canton St #1 #5 & WWSB #4

NODE SETTINGS		SIGNING SETTINGS		EBL	EBR	NBL	NBT	SBT	SBR
Node #	41	Lanes and Sharing (#RL)			↗	↖	↕	↕↕	
Zone:	B	Traffic Volume (vph)	0	558	444	287	462	0	
X East (ft):	3325	Sign Control	Stop	—	—	Free	Free	—	
Y North (ft):	3953	Median Width (ft)	0	—	—	20	24	—	
Z Elevation (ft):	86	TWLT Median	<input type="checkbox"/>	—	—	<input type="checkbox"/>	<input type="checkbox"/>	—	
Description		Right Turn Channelized	—	Yield	—	None	—	None	
Control Type	Unsig	Critical Gap, tC (s)	—	6.9	4.1	—	—	—	
Max v/c Ratio:	0.81	Follow Up Time, tF (s)	—	3.3	2.2	—	—	—	
Intersection Delay (s):	11.4	Volume to Capacity Ratio	—	0.81	0.46	0.18	0.15	—	
Intersection LOS:	—	Control Delay (s)	—	26.9	11.2	0.0	0.0	—	
ICU:	0.54	Level of Service	—	D	B	A	A	—	
ICU LOS:	A	Queue Length 95th (ft)	—	172	49	0	0	—	



Proposed Canton Street and WWSB

■ Intersection Analysis

- 2016 Build Out Analysis
 - Signalized intersection analysis if intersection meets warrants following construction and build out of the Westwood Station Development



Proposed Canton Street and WWSB

Intersection Analysis

2016 Build Out Analysis – AM Peak

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41 Canton St #1 #5 & WWSB #4

NODE SETTINGS		TIMING SETTINGS	
Node #	41	Lanes and Sharing (#RL)	EBL EBR NBL NBT SBT SBR
Zone	B	Traffic Volume (vph)	0 262 745 673 308 0
X East (ft)	3325	Turn Type	— Over D.P+P — —
Y North (ft)	3953	Protected Phases	— 5 5 8 —
Z Elevation (ft)	86	Permitted Phases	— 8 Free — —
Description		Detector Phases	— 5 5 None 8 —
Control Type	Semi Act-Unord	Switch Phase	— 0 0 0 0 0 —
Cycle Length (s)	60.0	Leading Detector (ft)	— 20 170 0 0 —
Lock Timings:	<input type="checkbox"/>	Trailing Detector (ft)	— 0 0 0 0 —
Optimize Cycle Length:	Optimize	Minimum Initial (s)	— 4.0 4.0 — 4.0 —
Optimize Splits:	Optimize	Minimum Split (s)	
Actuated Cycle(s):	41.6	Total Split (s)	
Natural Cycle(s):	45.0	Yellow Time (s)	
Max v/c Ratio:	0.70	All-Red Time (s)	
Intersection Delay (s):	3.6	Lost Time Adjust (s)	
Intersection LOS:	A	Lagging Phase?	
ICU:	0.57	Allow Lead/Lag Optimize?	
ICU LOS:	B	Recall Mode	
Offset (s):	—	Actuated Effect Green (s)	
Referenced to:	—	Actuated g/C Ratio	
Reference Phase:	—	Volume to Capacity Ratio	
Master Intersection:	—	Control Delay (s)	
Yield Point:	—	Queue Delay (s)	
		Total Delay (s)	
		Level of Service	
		Approach Delay (s)	
		Approach LOS	
		Approach LOS	
		Queue Length 50th (ft)	
		Queue Length 95th (ft)	

Volume to Capacity Ratio	—	0.29	0.70	0.39	0.42
Control Delay (s)	—	1.5	6.4	0.6	5.5
Queue Delay (s)	—	0.0	0.0	0.0	0.0
Total Delay (s)	—	1.5	6.4	0.6	5.5
Level of Service	—	A	A	A	A
Approach Delay (s)	1.5	—	—	3.6	5.5
Approach LOS	A	—	—	A	A
Queue Length 50th (ft)	—	0	0	0	5
Queue Length 95th (ft)	—	15	73	0	8

#49
#41
#49
#41 #49
v/c ok | Mins ok



Proposed Canton Street and WWSB

Intersection Analysis

2016 Build Out Analysis – PM Peak

Synchro 7 - C:\Orla P...ction Analysis\2015 PM Level 1 TC- West T4 2016.syn

File Edit Transfer Options Optimize Help

41 Canton St #1 #5 & WWSB #4

NODE SETTINGS		TIMING SETTINGS					
		EBL	EBR	NBL	NBT	SBT	SBR
Node #	41	Lanes and Sharing (#RL)					
Zone:	B	0	578	493	311	852	0
X East (ft):	3325	Turn Type					
Y North (ft):	3953	Protected Phases					
Z Elevation (ft):	86	Permitted Phases					
Description:		Detector Phases					
Control Type:	Semi Act-Uncred	Switch Phase					
Cycle Length (s):	80.0	Leading Detector (ft)					
Lock Timings:	<input type="checkbox"/>	Trailing Detector (ft)					
Optimize Cycle Length:	Optimize	Minimum Initial (s)					
Optimize Splits:	Optimize	Minimum Split (s)					
Actuated Cycle(s):	71.6	Total Split (s)					
Natural Cycle(s):	50.0	Yellow Time (s)					
Max v/c Ratio:	0.76	All-Red Time (s)					
Intersection Delay (s):	10.2	Lost Time Adjust (s)					
Intersection LOS:	B	Lagging Phase?					
ICU:	0.68	Allow Lead/Lag Optimize?					
ICU LOS:	C	Recall Mode					
Offset (s):	—	Actuated Effct. Green (s)					
Referenced to:	—	Actuated g/C Ratio					
Reference Phase:	—	Volume to Capacity Ratio					
Master Intersection:	—	Control Delay (s)					
Yield Point:	—	Queue Delay (s)					
		Total Delay (s)					
		Level of Service					
		Approach Delay (s)					
		Approach LOS					
		Queue Length 50th (ft)					
		Queue Length 95th (ft)					

#49
#41

How many yield points from coordinated phases. v/c ok Mins ok

Actuated g/C Ratio	—	0.51	0.85	1.00	0.34
Volume to Capacity Ratio	—	0.75	0.53	0.19	0.76
Control Delay (s)	—	20.3	9.1	0.2	7.6
Queue Delay (s)	—	0.0	0.0	0.0	0.0
Total Delay (s)	—	20.3	9.1	0.2	7.6
Level of Service	—	C	A	A	A
Approach Delay (s)	20.3	—	—	5.7	7.6
Approach LOS	C	—	—	A	A
Queue Length 50th (ft)	—	168	68	0	14
Queue Length 95th (ft)	—	287	137	0	31



Summary

In response to the Town of Canton's opposition to petitions by the Town of Westwood for alteration to a county highway, we have:

- Established the Project Purpose and Need is to improve safety by slowing travel speeds and discouraging I-95 cut-thru traffic.
- Provided designs completed to a level necessary to convey intent and establish feasibility
- Provided detailed traffic analysis showing potential impact of proposed designs
- Answered concerns related to intersection operations and the ability of local traffic to continue to use Canton Street



Town of Westwood Petition

Norfolk County Commissioners

Canton Street Improvements

