Westwood Traffic Calming

Advisory Committee Update

July 1, 2008

URBAN ENGINEERS
Formulating Excellence

Agenda

1. Homework Assignment Summary
2. Overview of the Measures
3. Overview of the Traffic Model
4. Schedule and Expectations
5. Committee Name
6. Google
7. Next Meetings

The Glatting Plan

Homework Assignment

Westwood Traffic Calming Worksheet Rev. 2

Your Name_____

Your Address_____

	Desired Action (as expressed at the opening charrette)	Effect	Practical to Implement?
1	Ramps from Westwood Station to I-95	Removes Westwood Station traffic from surface streets	No, unaffordable
2	Left turn restrictions from Everett onto University	Discourages cut through from Everett onto University	No, outside jurisdiction
3	Eliminate Everett near University	Eliminates cut through from Everett	No, worsens connectivity
4	Add sidewalks	Improves neighborhood walk ability	No, unaffordable
5	Install chicanes on Forbes	Reduces speeds and cut throughs	✔
6	Close Forbes at Everett, Glandore, Spellman or Cushing	Eliminates cut throughs	No, worsens connectivity
7	Narrow Forbes with footpath / trees	Reduces speeds and cut throughs; improves walkability	✔
8	Create neighborhood gateways	Improved aesthetics, value	✔
9	Add STOP signs along Canton and Forbes	Increases delays and reduces cut throughs	✔
10	Add lanes on University	Increases capacity, speed	No, outside jurisdiction
11	Close Canton	Eliminates cut throughs	No, worsens connectivity
12	Provide access from Blue Hill to 128	Encourages cut through's to avoid Canton	No, unaffordable
13	Increase funding from $1.3M	Allows more to be done	✔
14	Left turn only from Forbes onto Everett	Discourages cut through's onto Forbes	✔
15	Left turn restrictions from Canton into Westwood Station	Discourages cut through's onto Canton	✔
16	Right turn restrictions from Westwood Station onto Canton	Discourages cut through's onto Canton	✔
17	Canton Street blind spots between Downey and Blue Hill	Improves safety	Incidental
18	One way on Forbes and Everett	Reduces connectivity; increases speed	No, increases speeds
19	Roundabout at Canton / Everett	Improves intersection safety; reduces speeds	✔
20	Circle at Forbes and Kilronan	Improves intersection safety; reduces speeds	✔
21	Cul-de-sac Canton	Eliminates cut through from Canton	No, worsens connectivity
22	Narrow Canton	Reduces speed	✔
23	Narrow Everett	Reduces speed	✔

Proposed Measure (as shown in the Glatting Jackson plan)		Meets Desired Action	Priority High	Priority Low	If Undesired Replace With[1]
Canton @ Blue Hill Realigned intersection		9 17 22			
Canton @ Cushing & Perry Realigned intersection		9 22			
Canton @ Downey & Metcalf Realigned intersection		9 17 22			
Canton @ Everett Roundabout		19 22			
Canton @ Hemlock Realigned intersection		9 17 22			

[1]Please use accompanying chart to select alternate measure
Return completed form to Chris McKeown at Town Hall by Monday, June 16, 2008
If you have any questions, call Najib at 860-246-7200

6/11/2008

Homework Assignment (Cont'd)

Westwood Traffic Calming Worksheet Rev. 2

Your Name_____

Your Address_____

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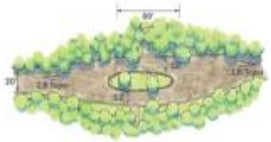
Proposed Measure (as shown in the Glatting Jackson plan)		Meets Desired Action	Priority High	Priority Low	If Undesired Replace With[1]
Forbes @ Cushing Realigned intersection		9 17 22			
Forbes @ Glandore Realigned intersection		9 17 22			
North & south end of Canton Gateways		8			
Midblock between intersections Choker or chicane		5			
Along all streets Lane diet		22 23			

[1]Please use accompanying chart to select alternate measure
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Homework Assignment (Cont'd)

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Your Address_____

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Proposed Measure (as shown in the Glatting Jackson plan)		Meets Desired Action	Priority High	Priority Low	If Undesired Replace With[1]
Forbes @ Everett Turn restrictions		14			

[1]Please use accompanying chart to select alternate measure
Return completed form to Chris McKeown at Town Hall by Monday, June 16, 2008
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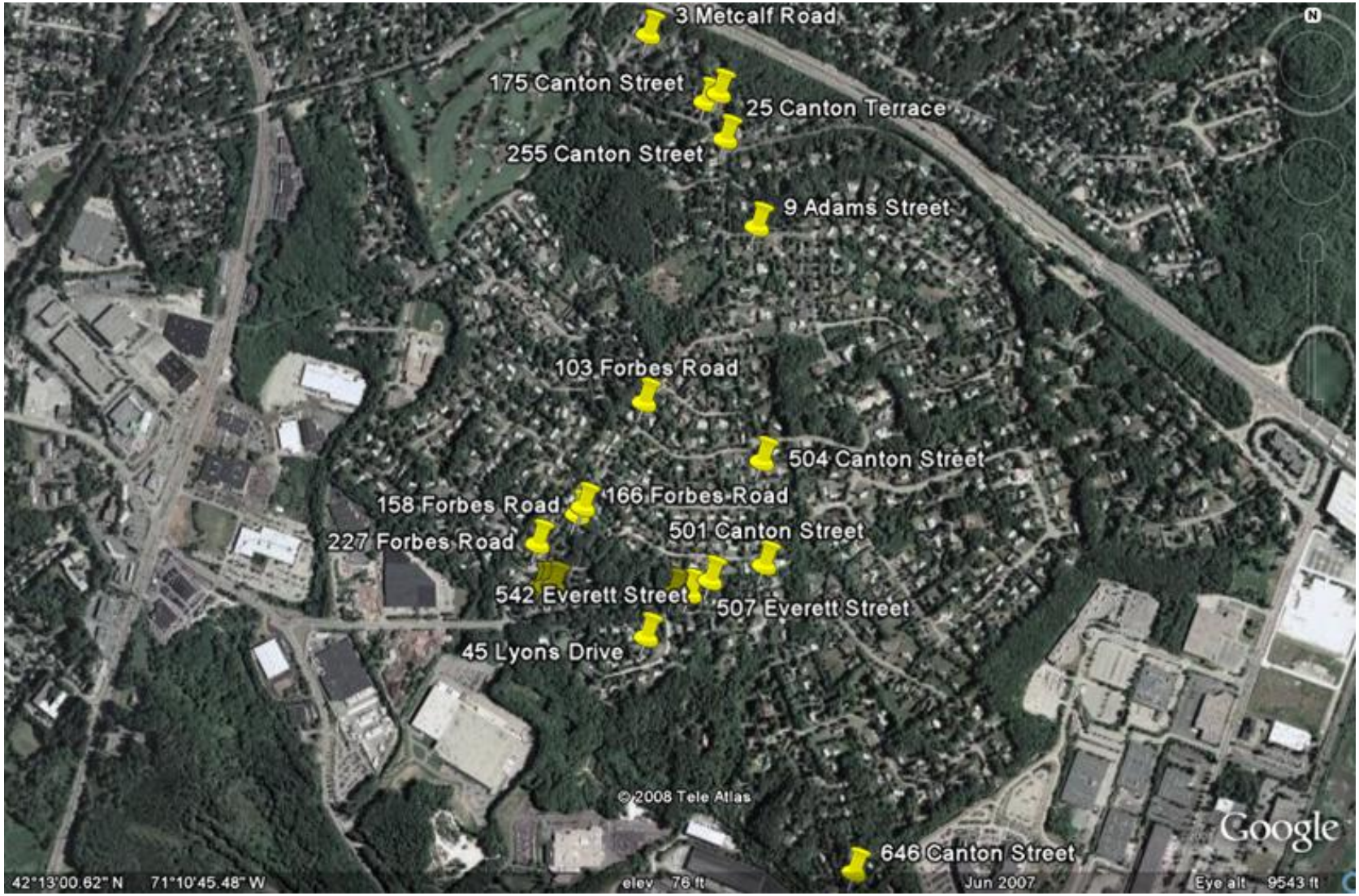
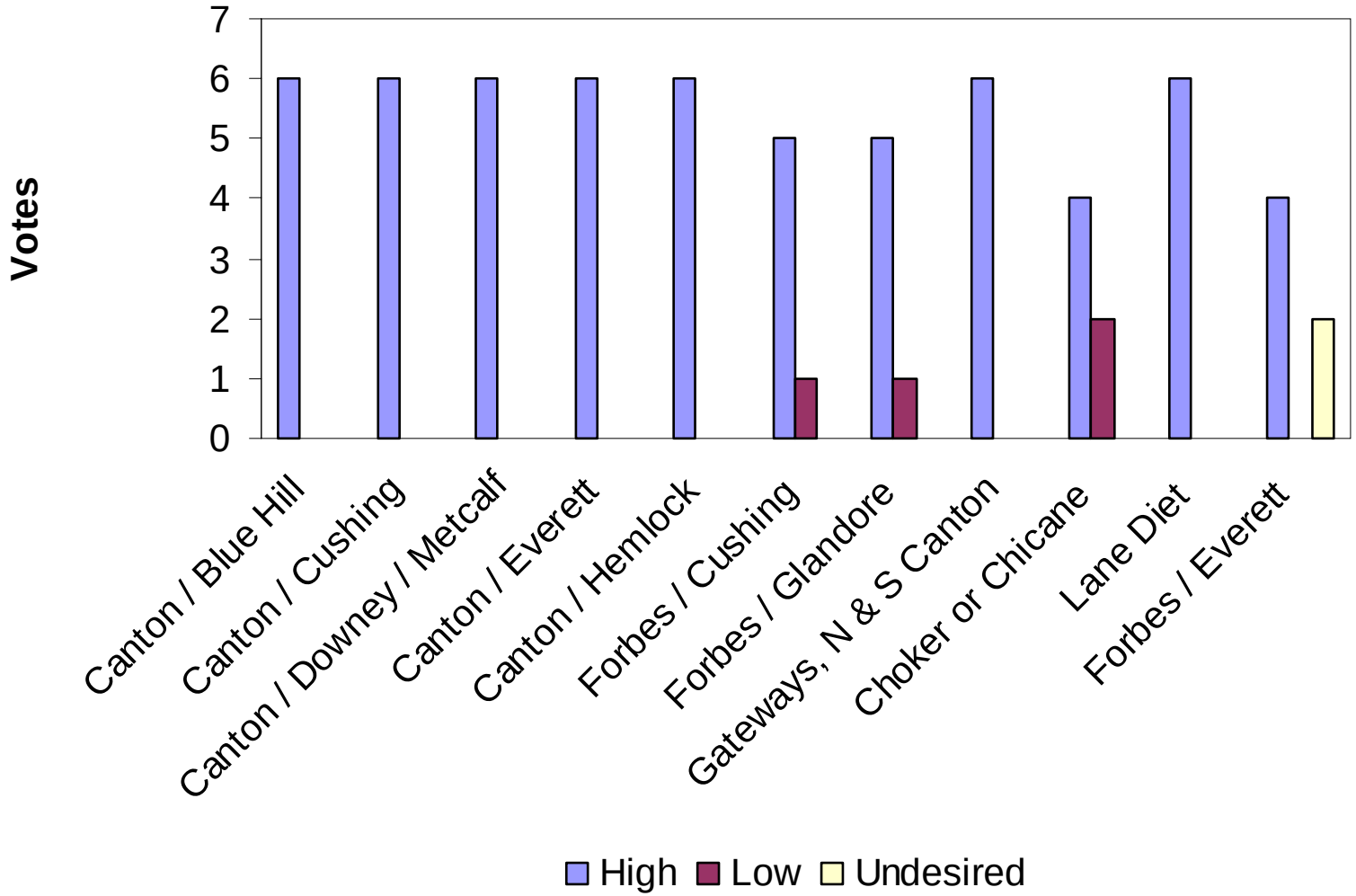
Homework Response Summary

- 21 Responses (2 from same household)
  - 6 From Canton Street
  - 7 From Everett Street
  - 4 From Forbes Road
  - 4 From Other Streets (Adams, Metcalf, Lyons, Canton Terrace)

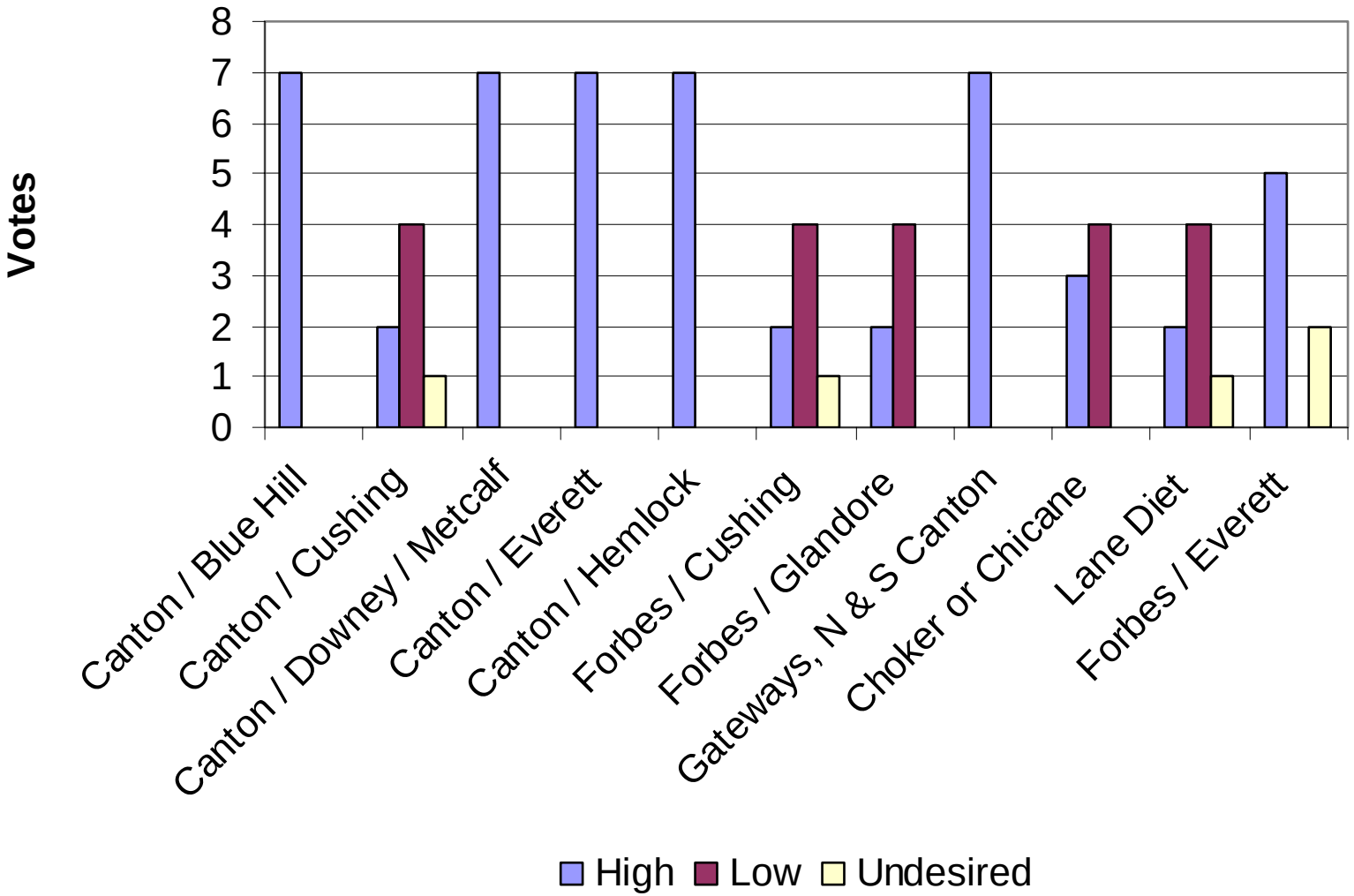
Response Distribution



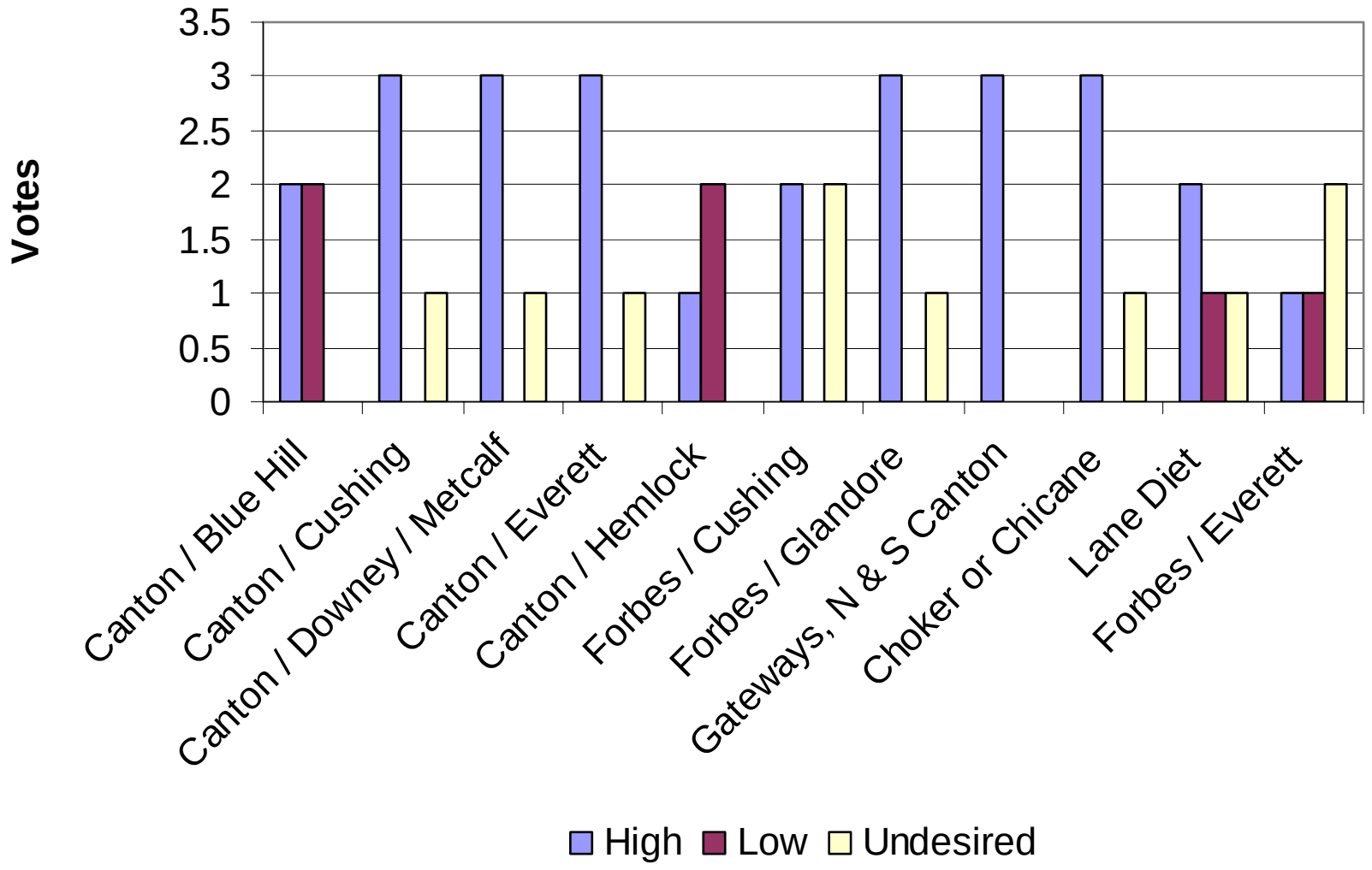
Canton Street Residents



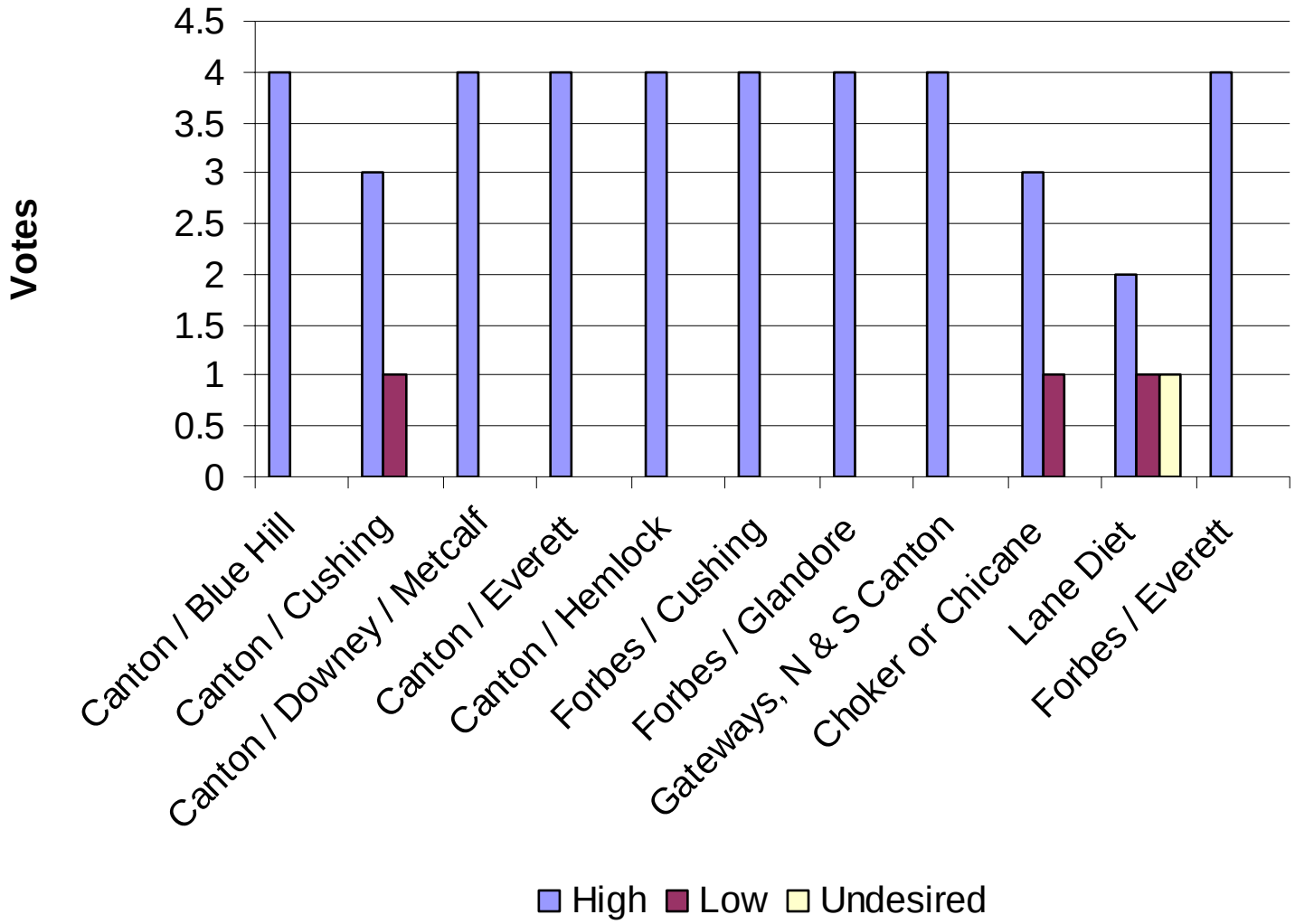
Everett Street Residents



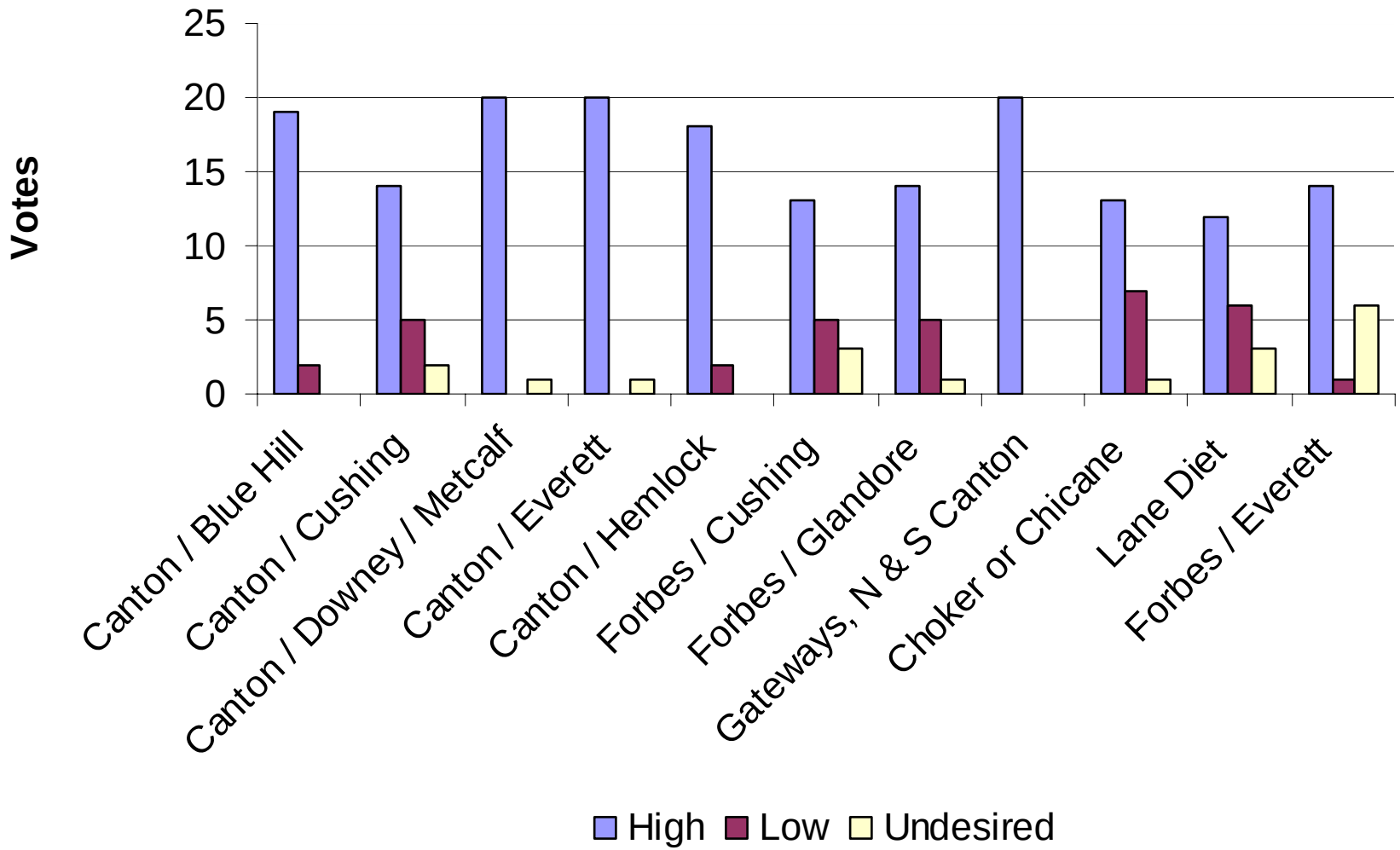
Forbes Street Residents



Other Streets



Overall Votes



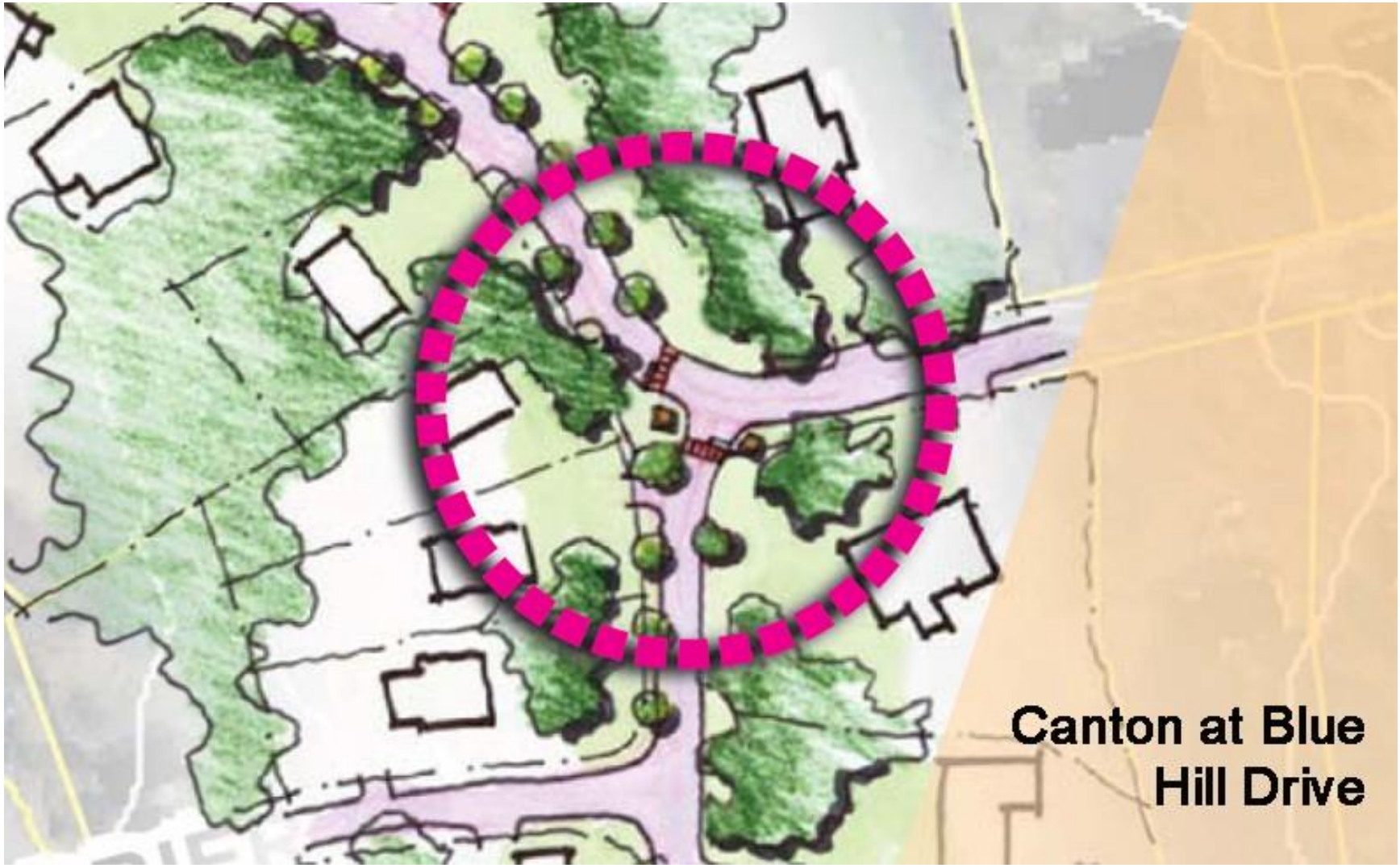
Alternative Measures

Canton @ Cushing & Perry	Circle			
Canton @ Downey & Metcalf	Circle	Gateway		
Canton @ Everett	Circle			
Forbes @ Cushing	Circle	Realign, Circle		
Forbes @ Glandore	Circle	Realign, Circle		
Forbes @ Everett	Roundabout	Medians, Circle	Gateway	Rotary
Canton @ Forbes	Realign			
Forbes	Closure			

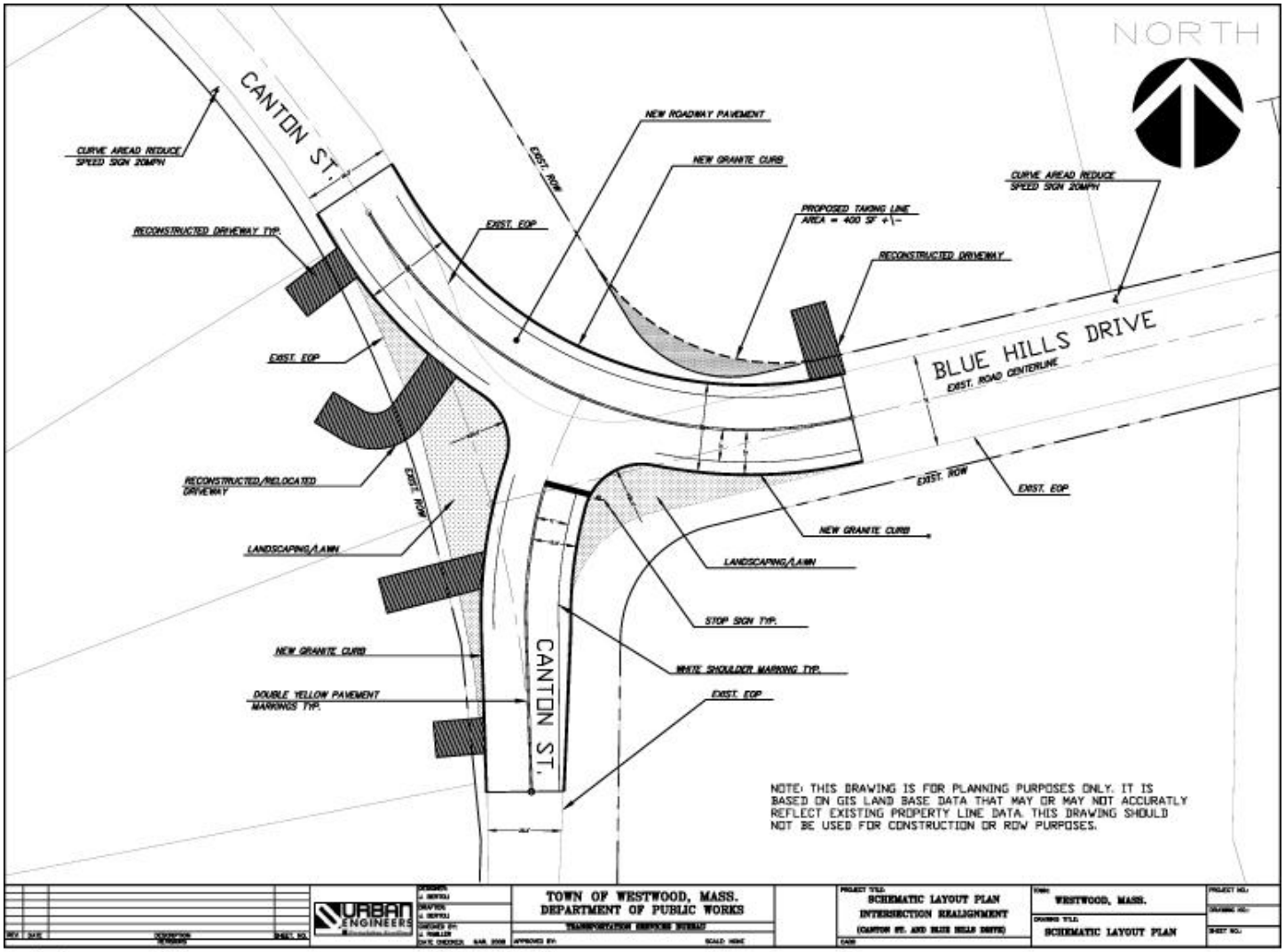
Additional Comments Received

- More traffic calming on Everett Street
- Has enough money been set aside for all options to be implemented?
- Are there measures – other than Glatting's - that should be considered?
- Do not overuse STOP signs
- Lane diets are very good
- What do the red marks across the road on the Glatting plan mean?

Canton at Blue Hill

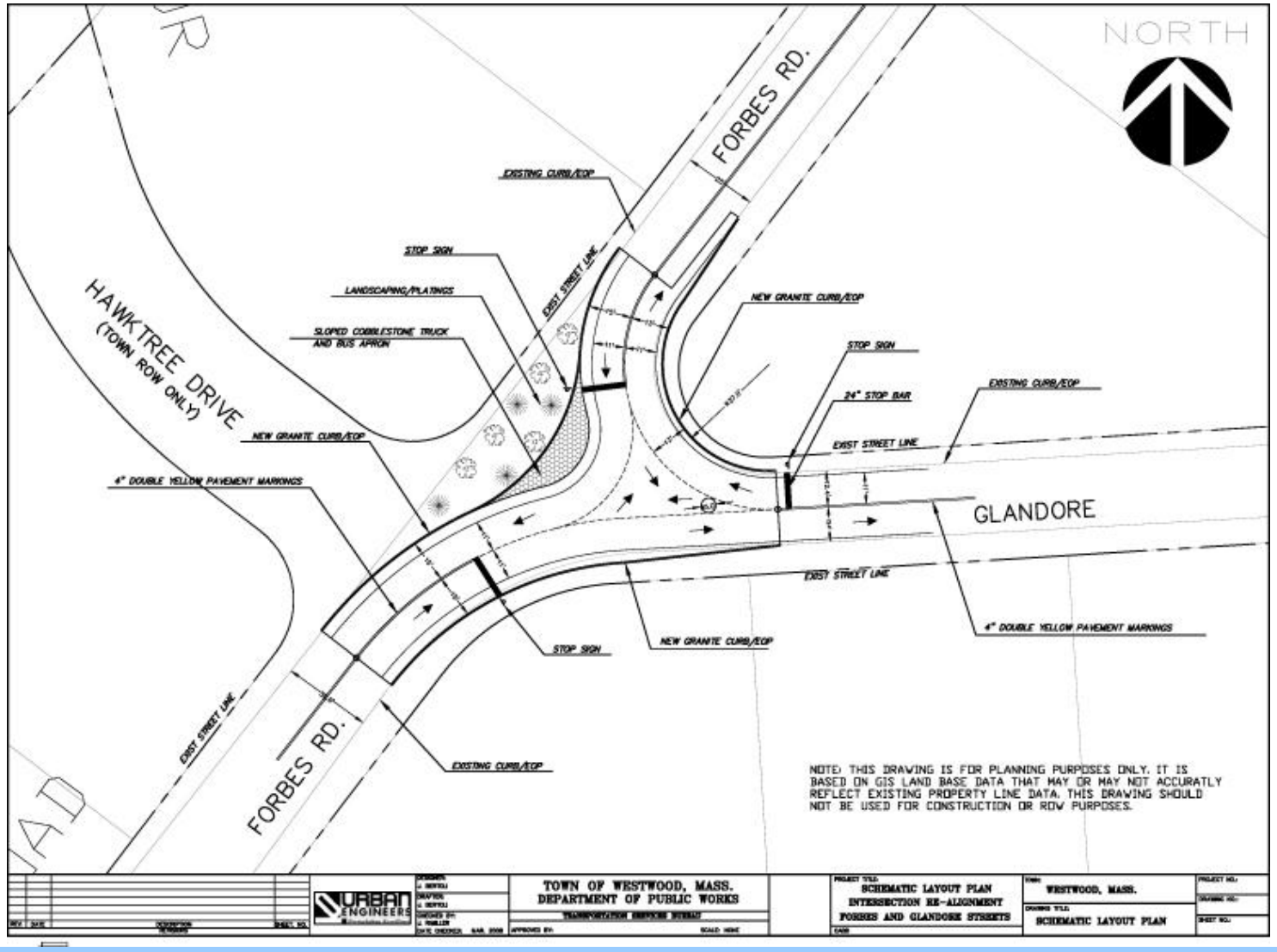


Canton at Blue Hill

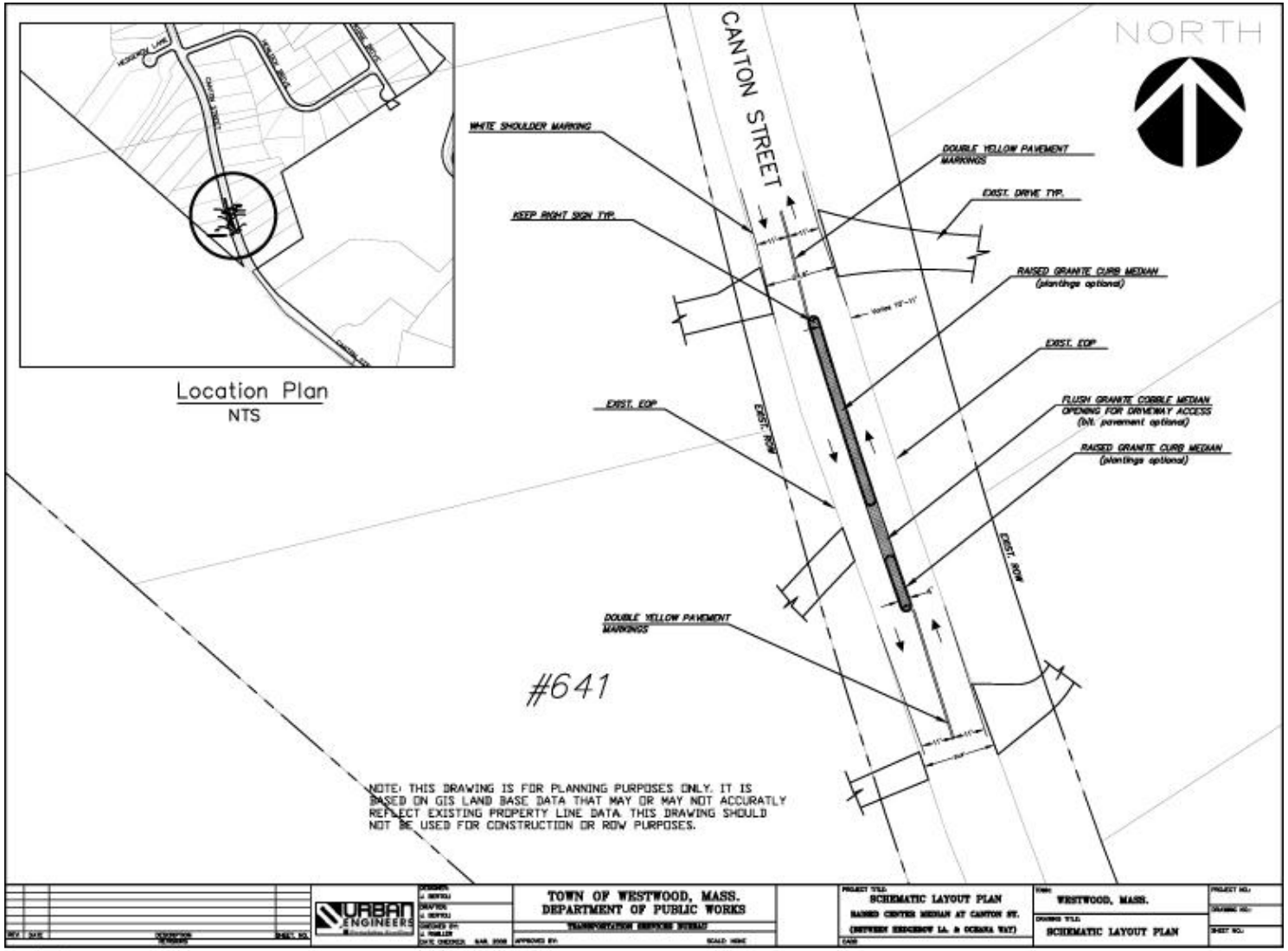


Forbes at Glandore

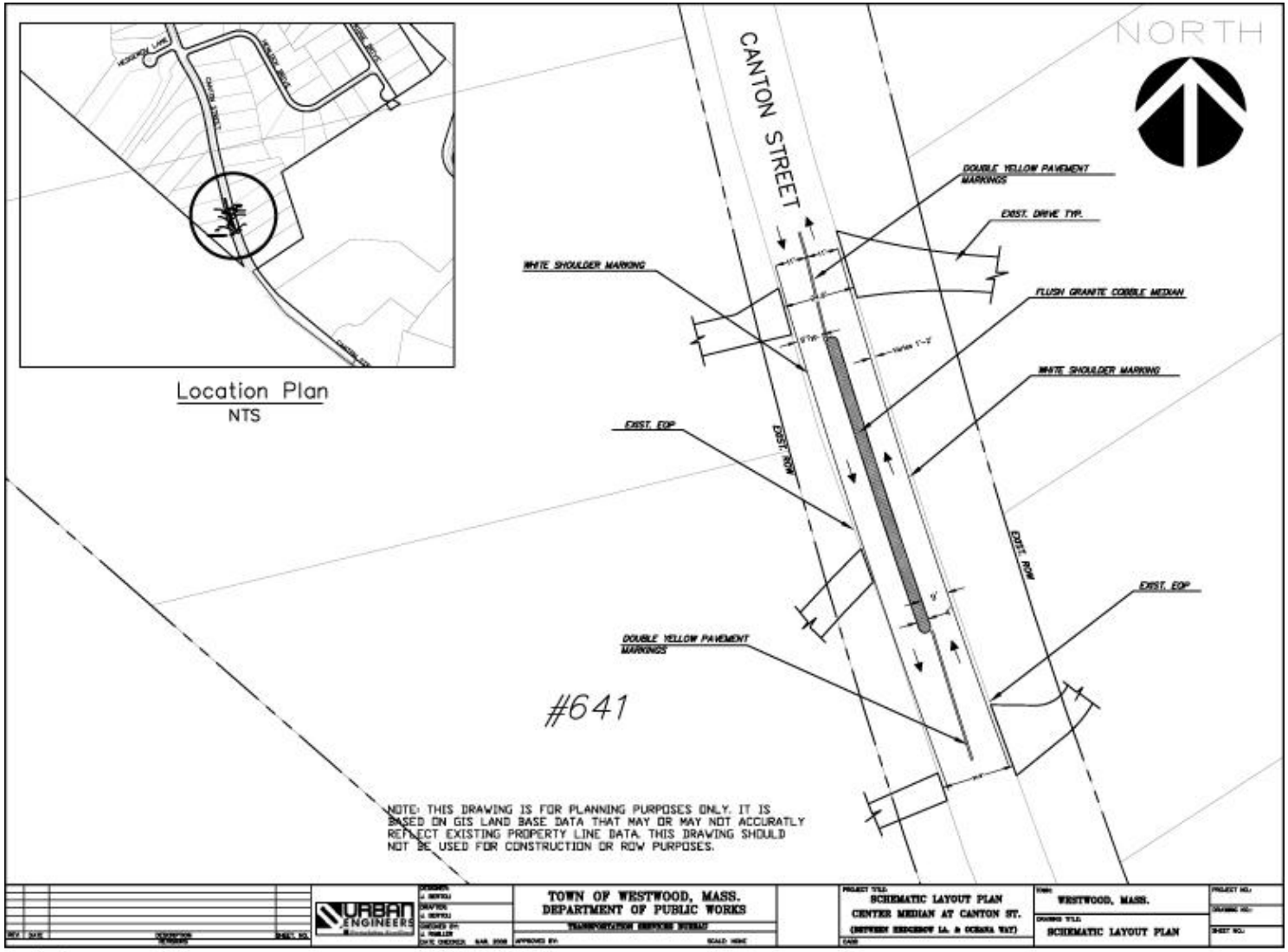
Forbes at Glandore



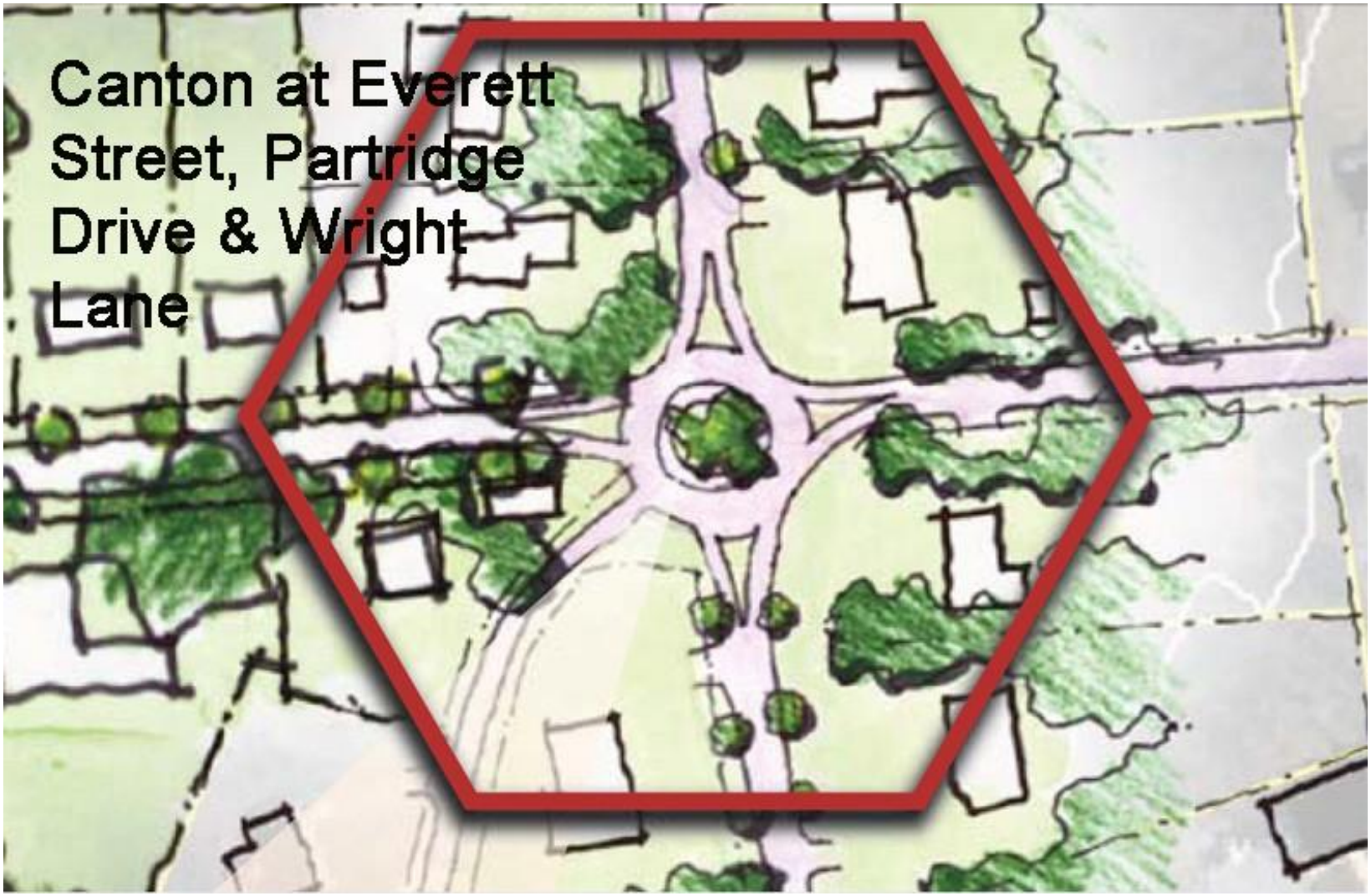
Median – 4' Raised



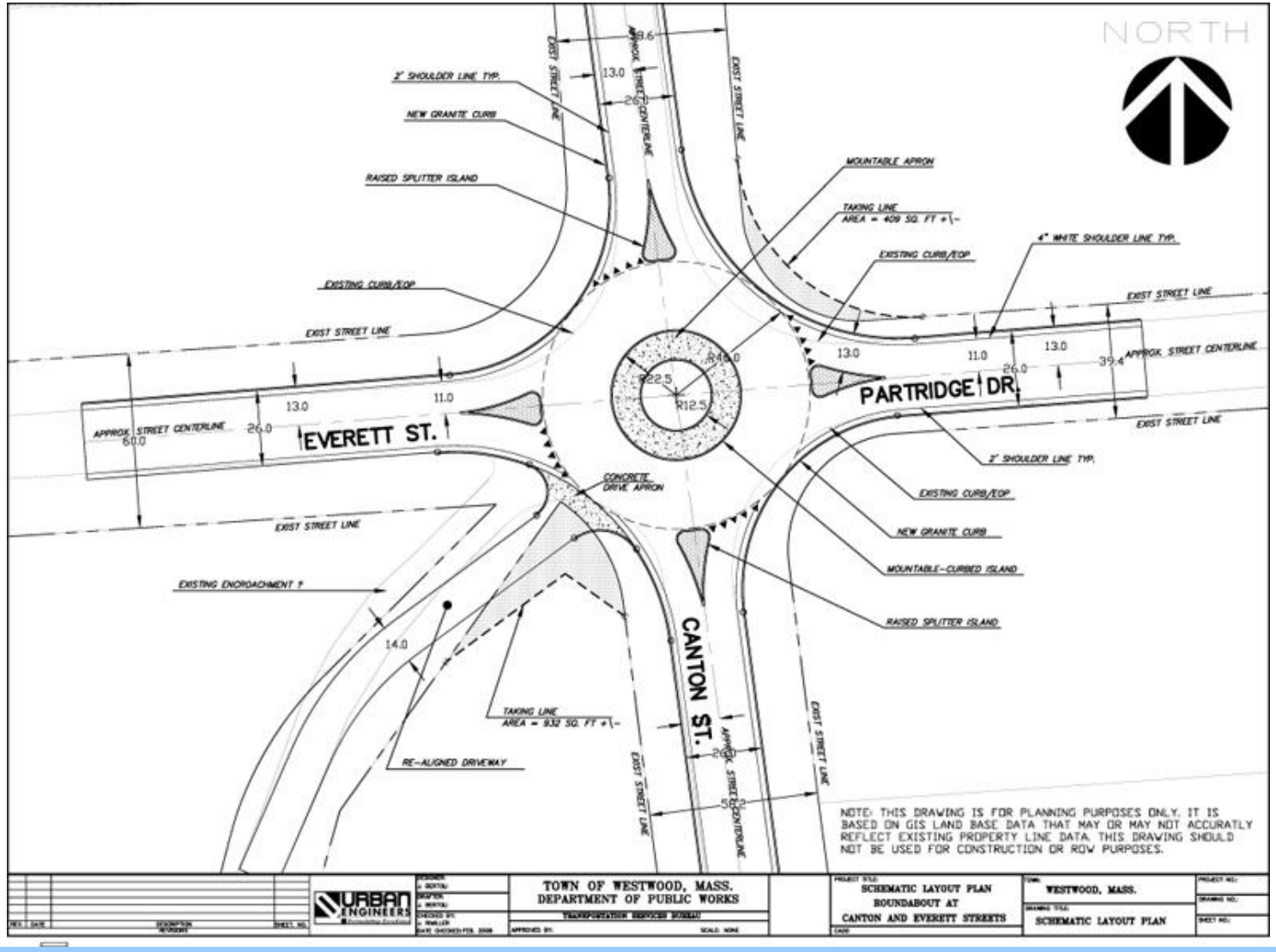
Median - Flush



Canton at Everett



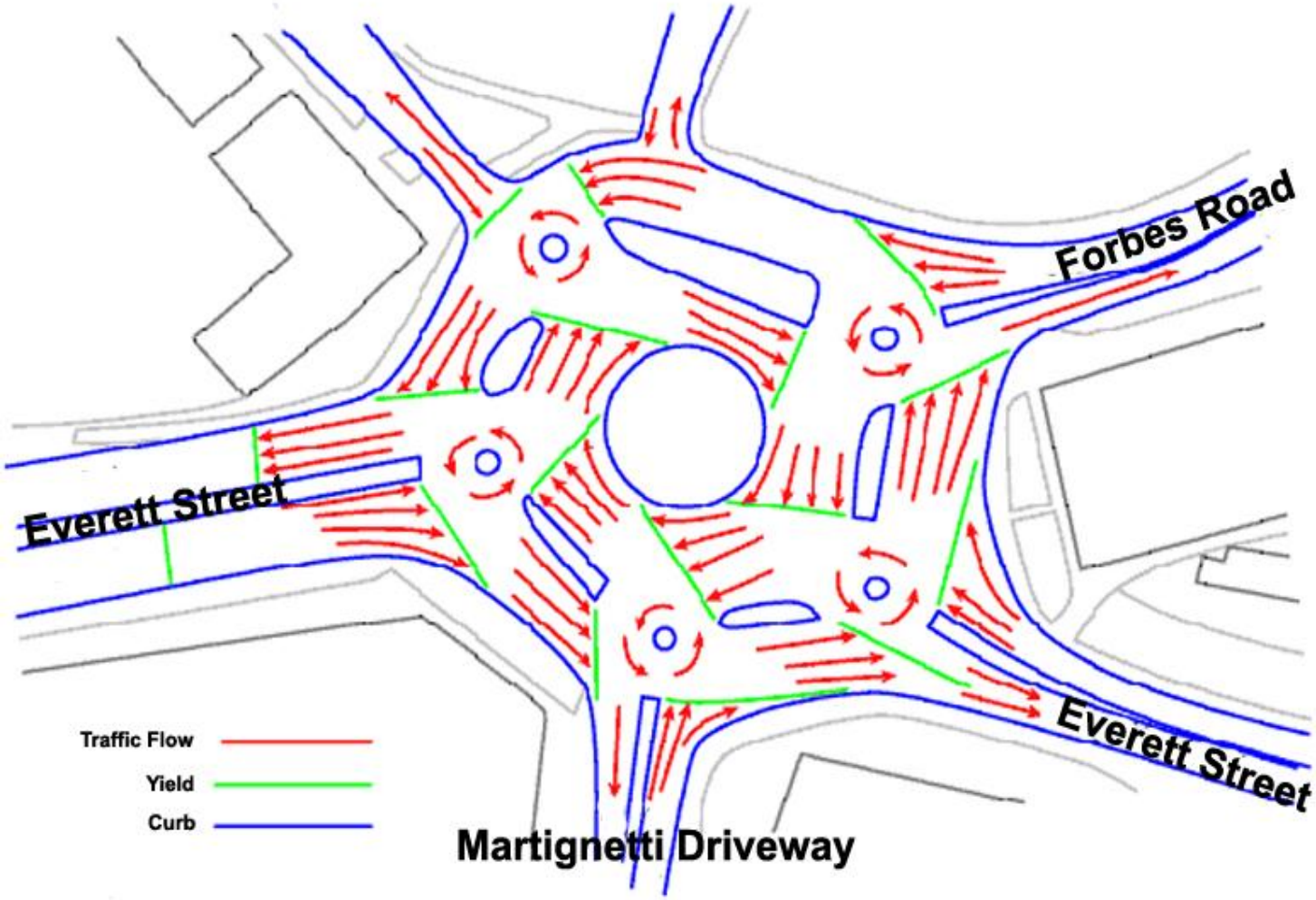
Canton at Everett



Roundabout Examples

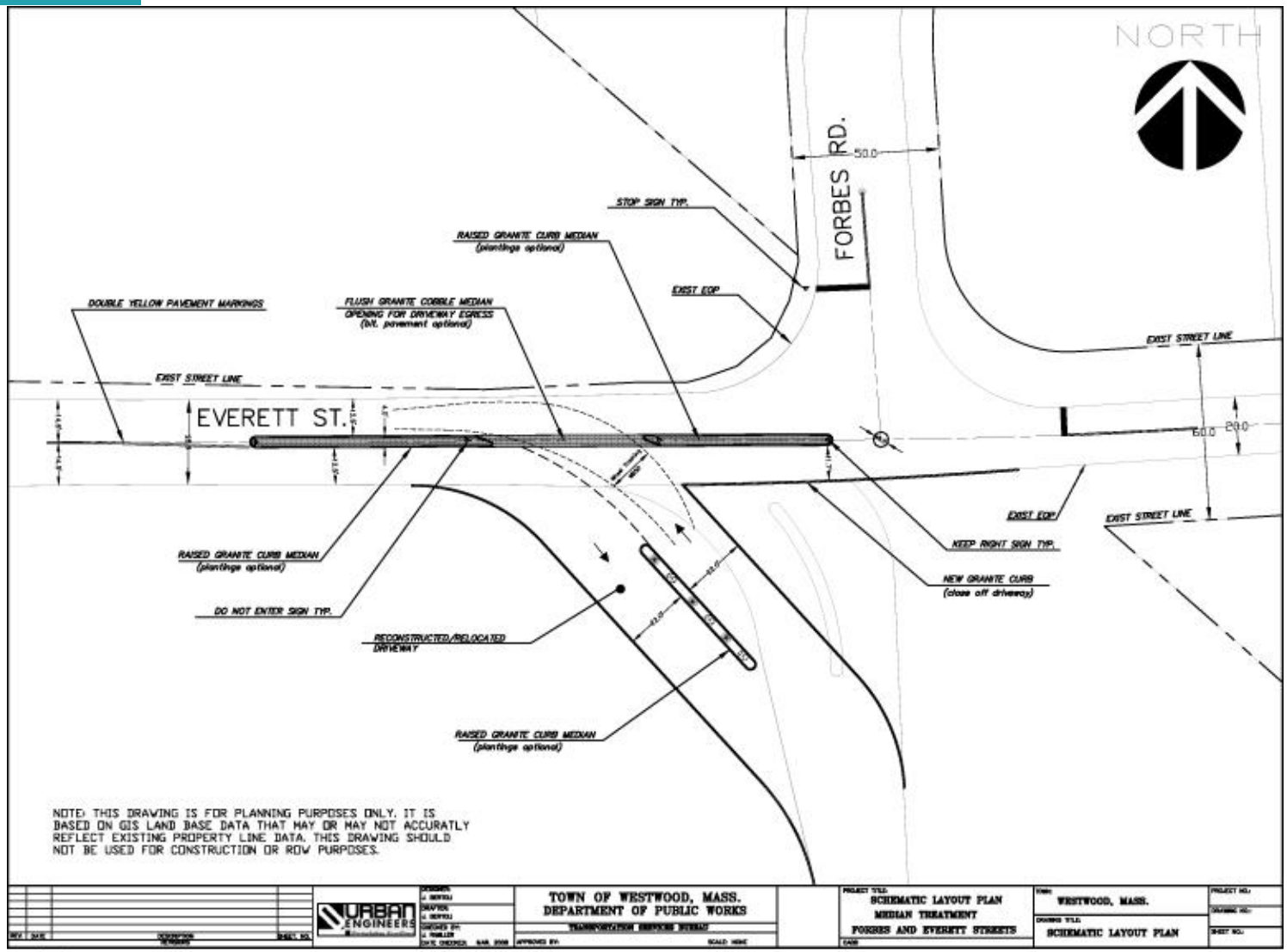
Roundabout Examples

Forbes at Everett

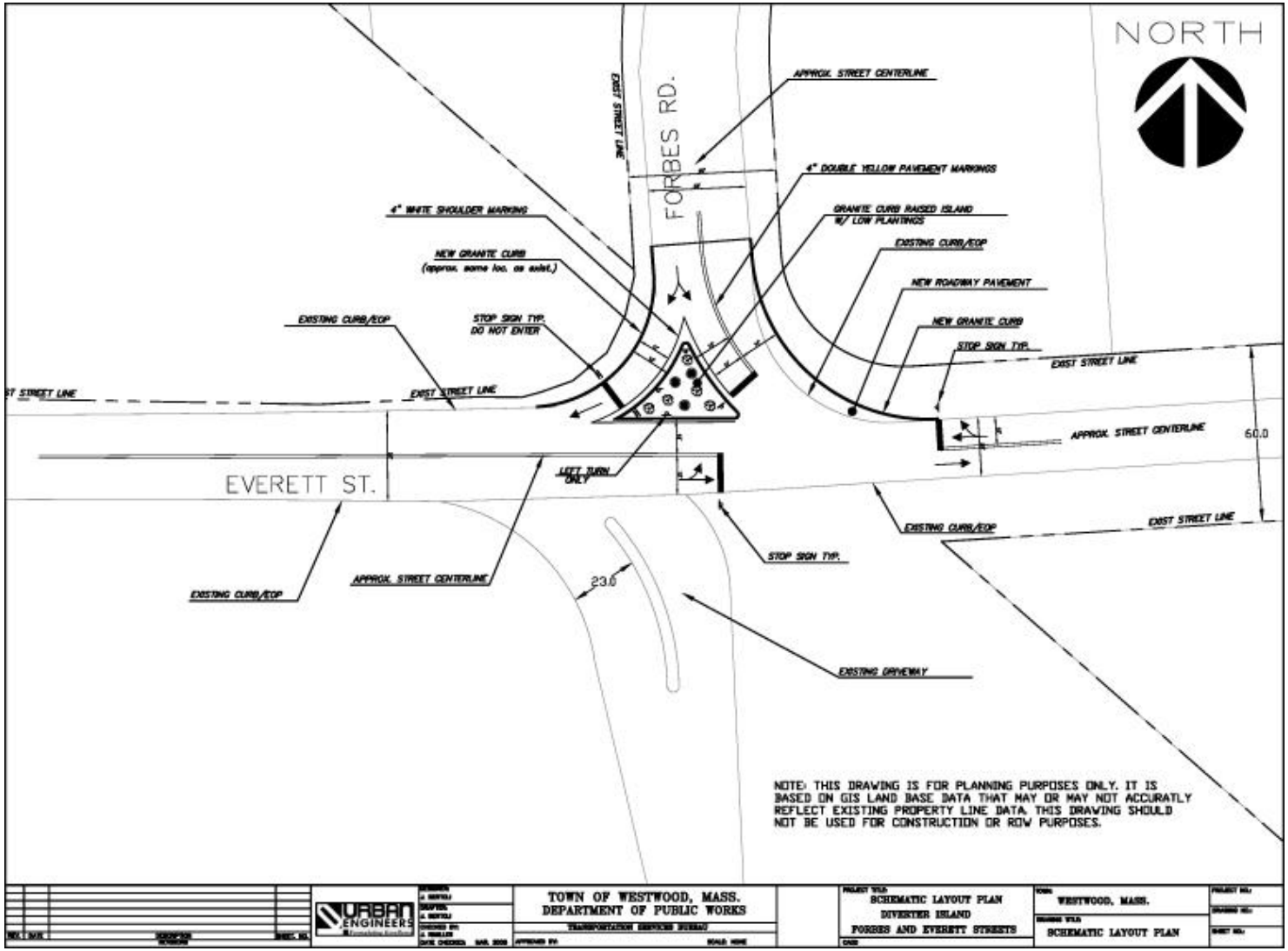


© 2008 Microsoft

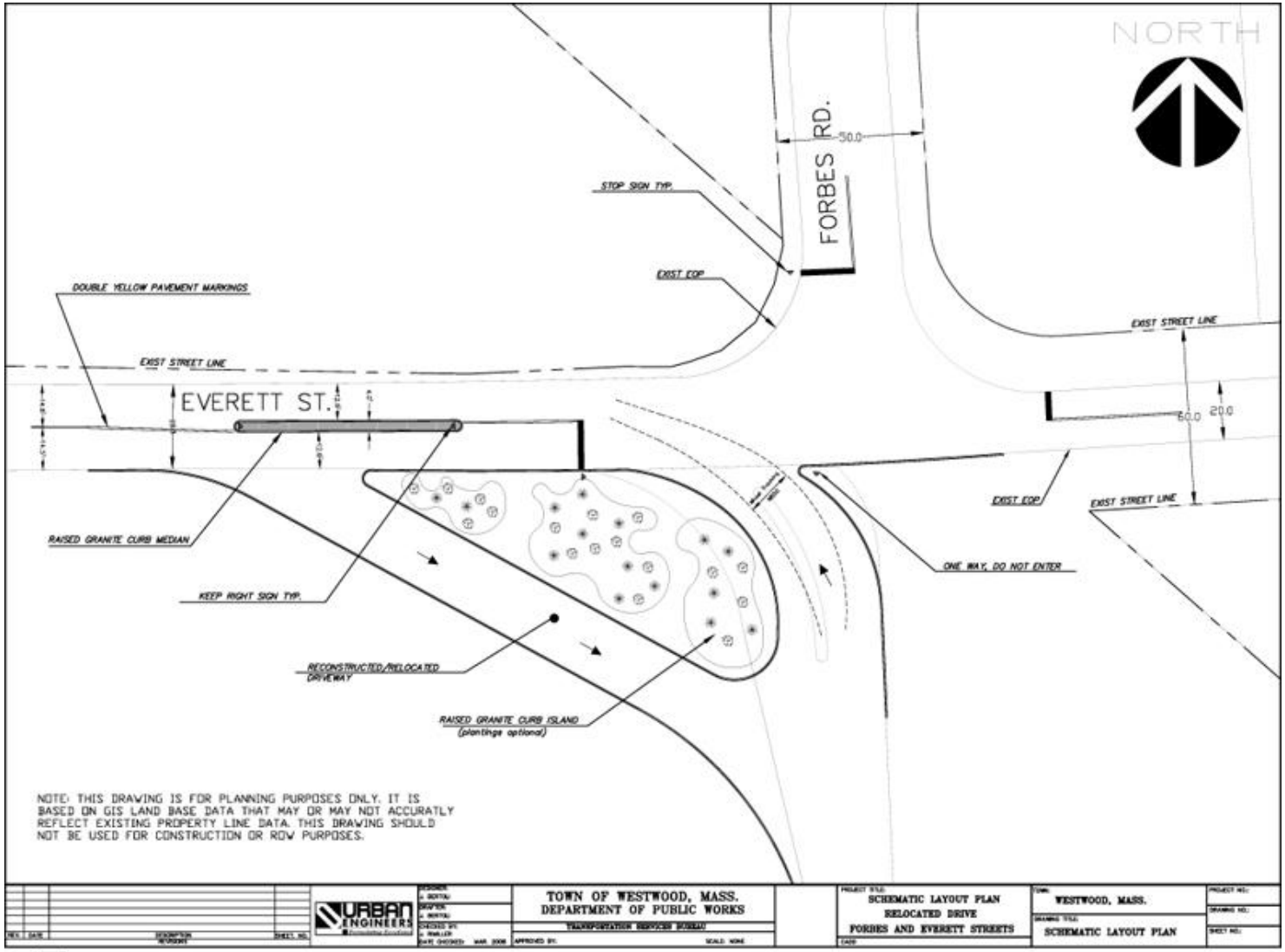
Forbes at Everett – Eric's Concept



Forbes at Everett

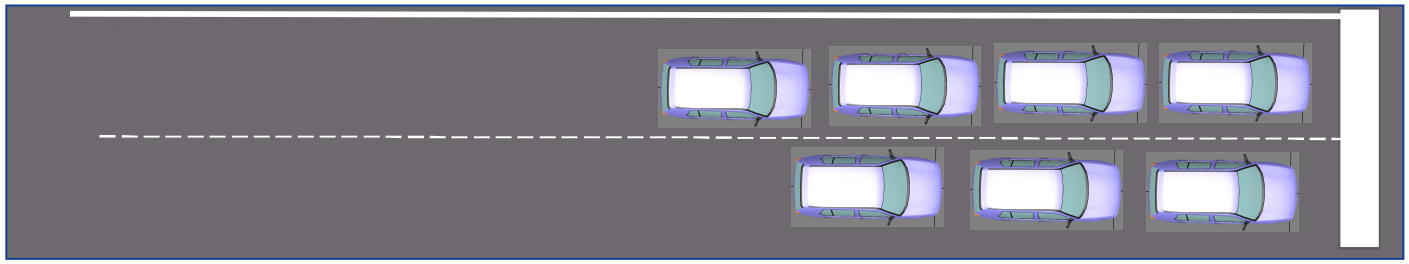


Forbes at Everett



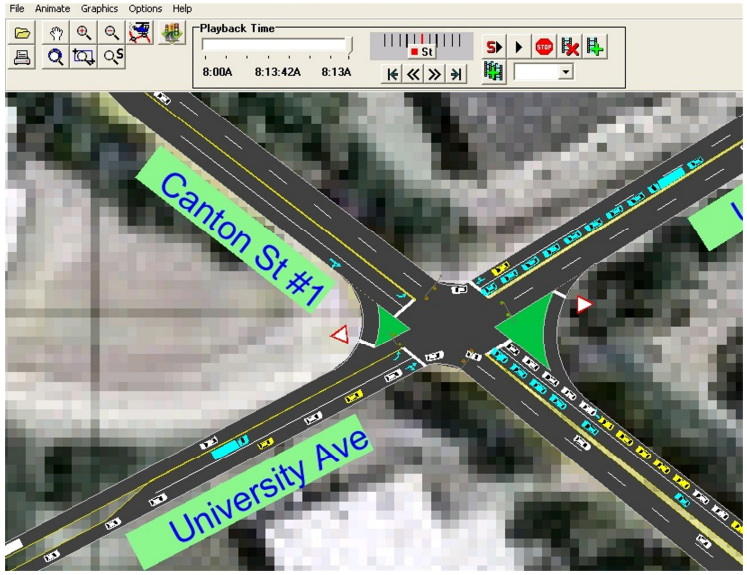
Existing Conditions

Traffic



Simulation Modeling

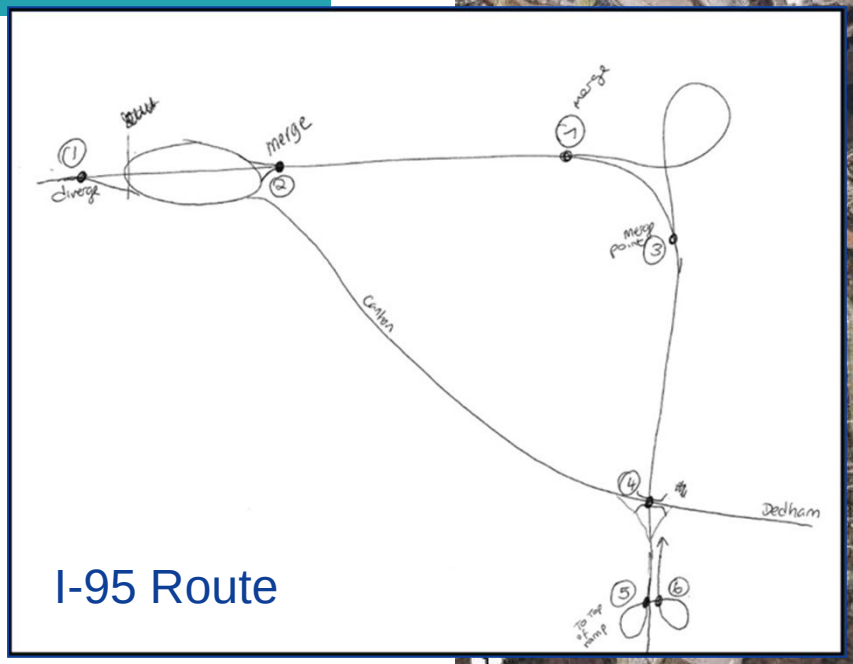
What is Simulation Modeling?



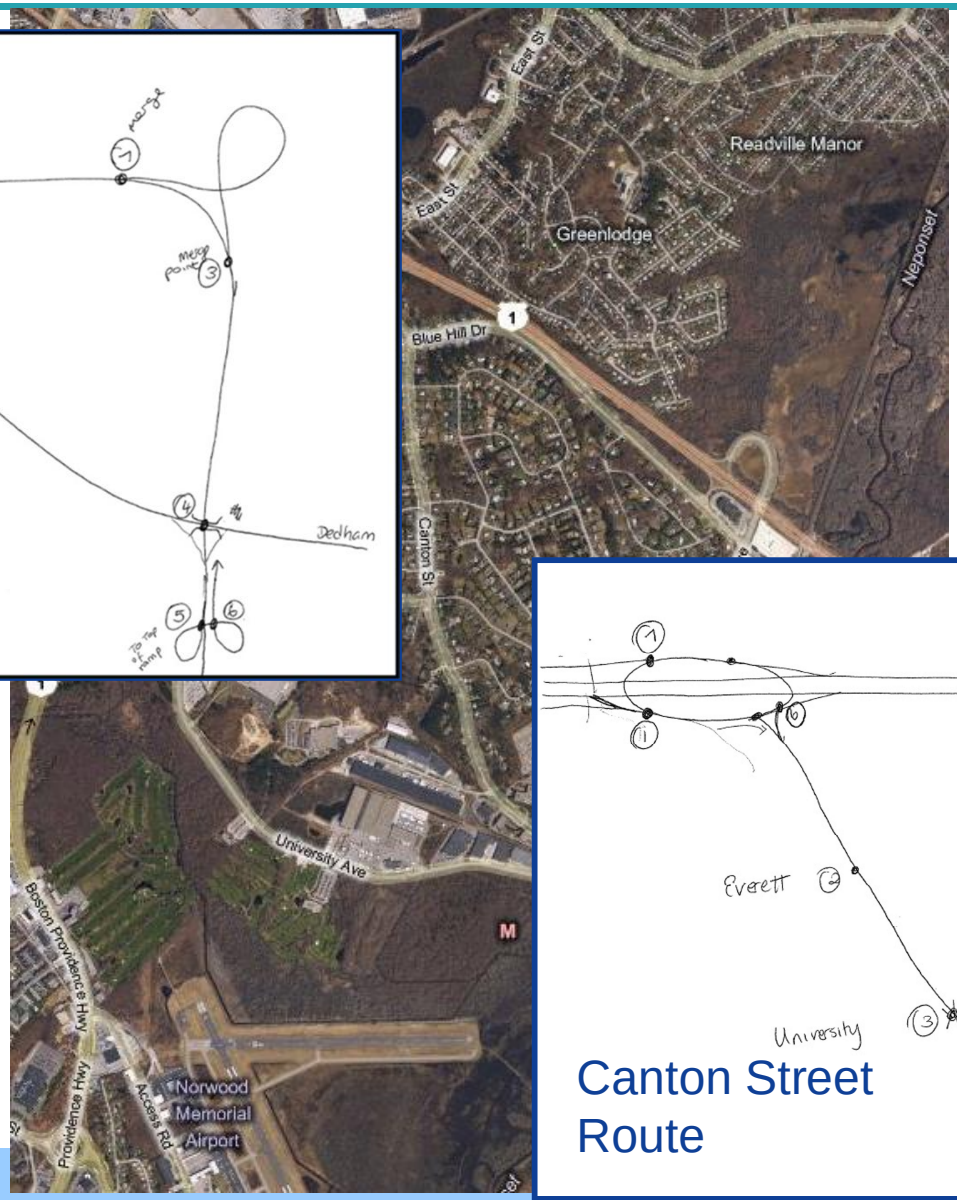
And how will it help us?

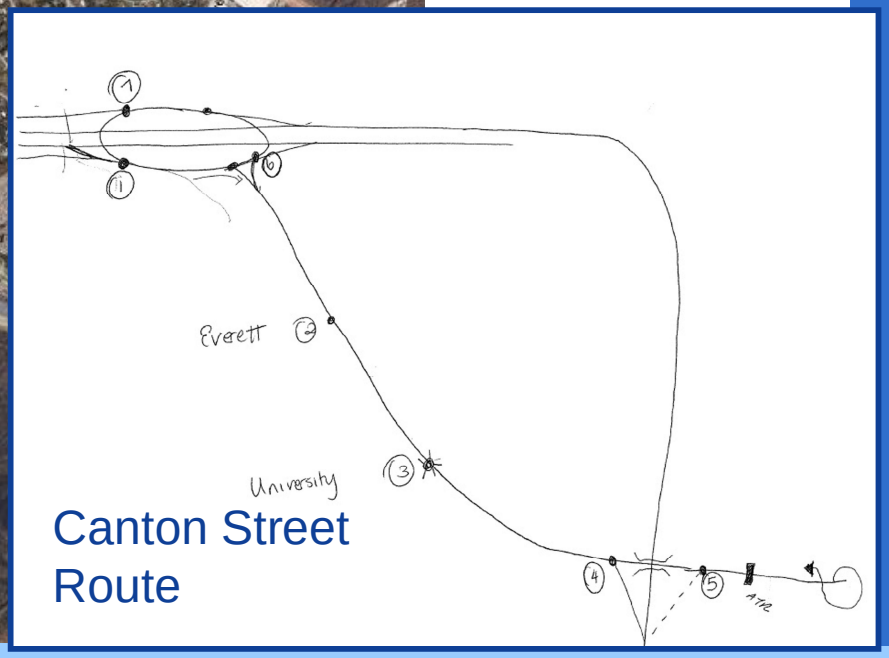
Simulation Modeling

Canton St Travel Time Data



I-95 Route





Canton Street Route

AM Peak Travel Times

Existing Travel Time

Northbound Travel Time (seconds)					
Route	**6-7**	**7-8**	**8-9**	**9-10**	**10-11**
Canton St	302	473	460	306	298
I-95 (April)	307	386	439	271	283
I-95 (May)*	483	1077	924	455	249

**Construction on I-95 Northbound*

Southbound Travel Time (seconds)					
Route	**6-7**	**7-8**	**8-9**	**9-10**	**10-11**
Canton St	276	275	303	290	268
I-95 (May)	202	205	212	203	206

PM Peak Travel Times

Existing Travel Time

Northbound Travel Time (seconds)					
Route	**2-3**	**3-4**	**4-5**	**5-6**	**6-7**
Canton St	320	312	345	365	299
I-95 (May)*	234	307	260	224	224

**Construction on I-95 Northbound*

Southbound Travel Time (seconds)					
Route	**2-3**	**3-4**	**4-5**	**5-6**	**6-7**
Canton St	295	320	351	344	284
I-95 (April)	212	221	238	232	216
I-95 (May)	237	329	308	367	249

Simulation Model Validation

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 Validation

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*

Travel Times for Example Traffic Calming Treatment

Travel Times

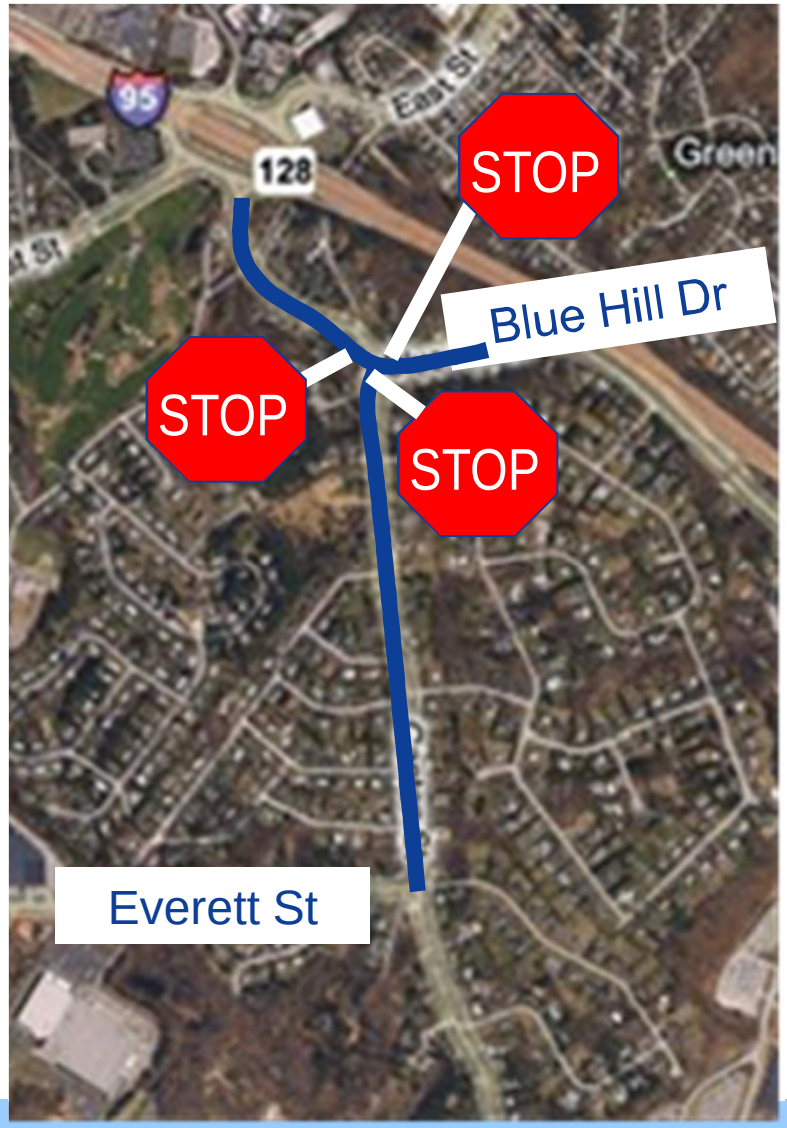
- **Stop sign for Northbound Canton Street**
- **Realigned Blue Hill Drive**

Travel Times between Rotary and Everett

AM Travel Time (seconds)				
Rotary to Everett St.	Existing	With TC	Diff.	% Diff.
Northbound	216	236	30	9%
Southbound	123	132	9	7%

PM Travel Time (seconds)				
Rotary to Everett St.	Existing	With TC	Diff.	% Diff.
Northbound	177	212	34	20%
Southbound	131	141	10	7.6%

Travel Times



- **All-Way STOP**
- **Realigned Blue Hill Drive**

Travel Times between Rotary and Everett

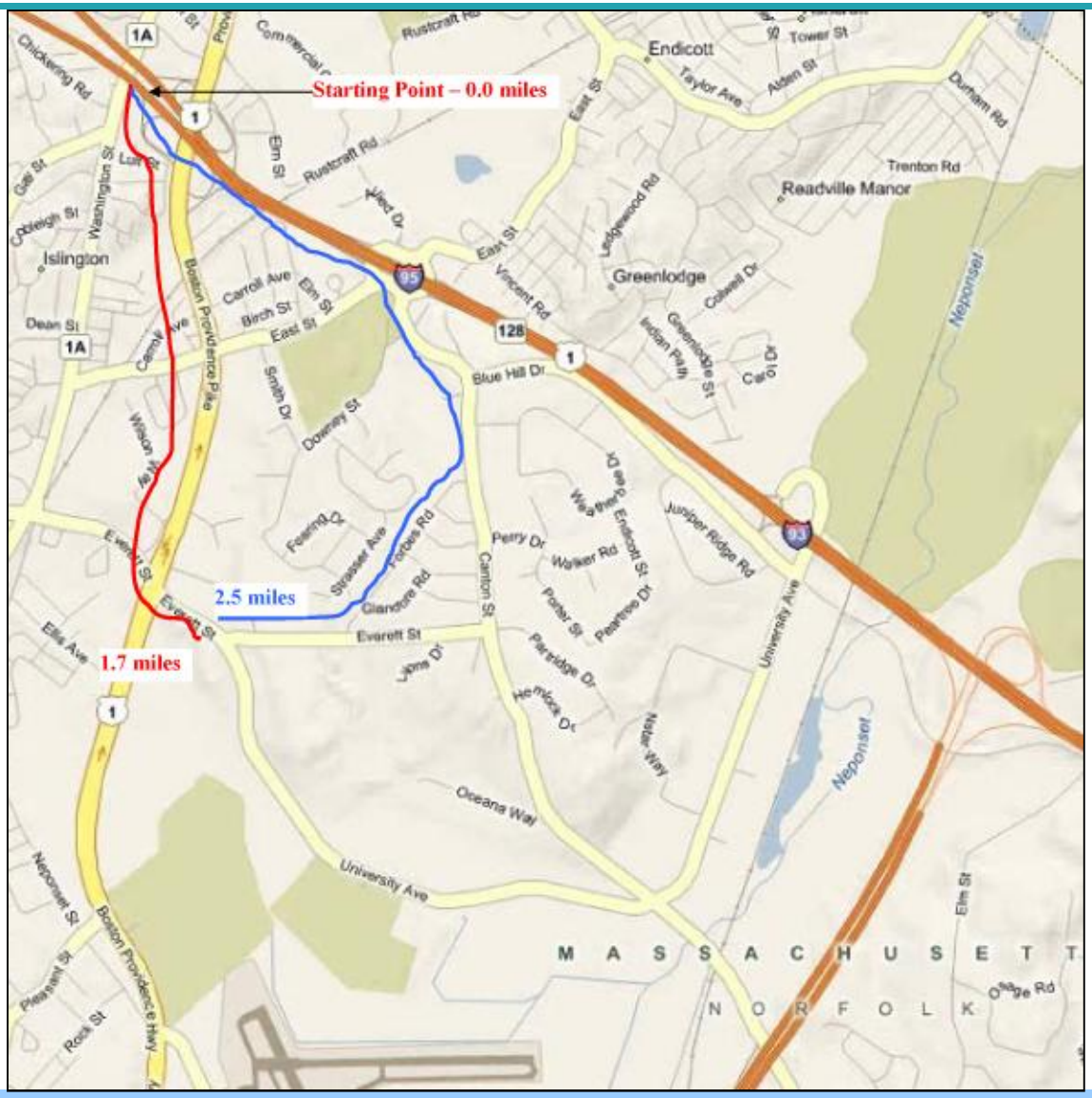
AM Travel Time (seconds)				
Rotary to Everett St.	Existing	With TC	Diff.	% Diff.
Northbound	216	227	61	28%
Southbound	123	137	14	11%

PM Travel Time (seconds)				
Rotary to Everett St.	Existing	With TC	Diff.	% Diff.
Northbound	177	193	16	9%
Southbound	131	165	34	26%

Next Steps

Model Review	Mobile Workshops	Design	Build
July	**August**	**Fall '08**	**Spring '09**

Canton/Forbes vs Route 1



Westwood Traffic Calming

Advisory Committee Update

Thank You

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