

Mayor's Meeting

2-1-17



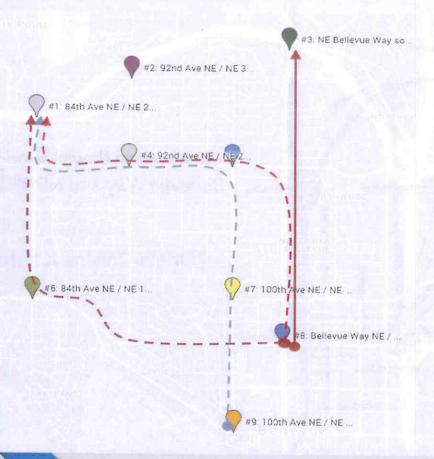
Problems

- Cut-Through Traffic (Traffic)
 - Weekdays PM peak (4-7)
- Tough to get home...Frustrating Inconvenience
- Tough to get on to SR 520...Frustrating Inconvenience
 - Not always a problem

Speeding &/or Inattentive Driving (Safety)

- Commuters Trucks "Others"
- Real (data) vs Perceived (stories) Issues
 - Traffic Study Hot Spots

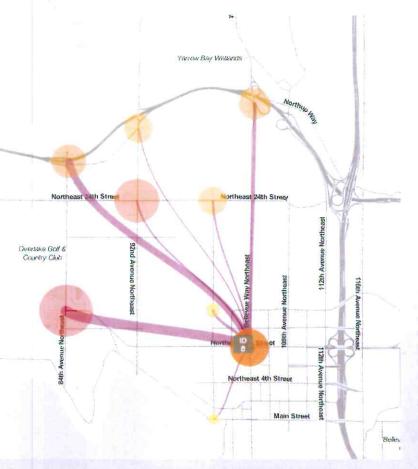
2016 Traffic Study



These were the typical routes chosen as alternatives during the PM peak hour.

[Origin-Destination study]



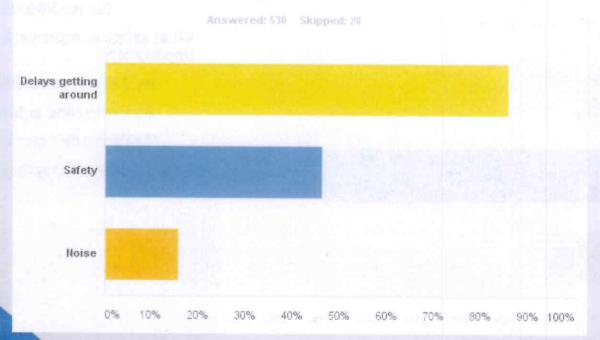


Destination flows for origin at Bellevue Way and NE 8th Street

[Origin-Destination study]

2016 Traffic Study

Q2 What are your primary concerns about traffic congestion in town?



Survey Results

Respondents:

35% Clyde Hill

46% Medina

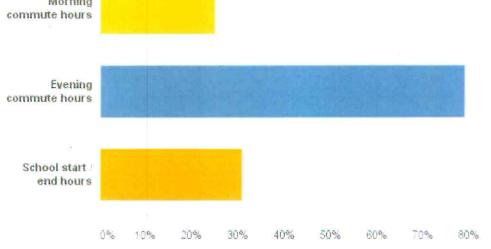
17% Hunts Point

2% Yarrow Point

2016 Traffic Study

What time of day is most important for you?





Survey Results

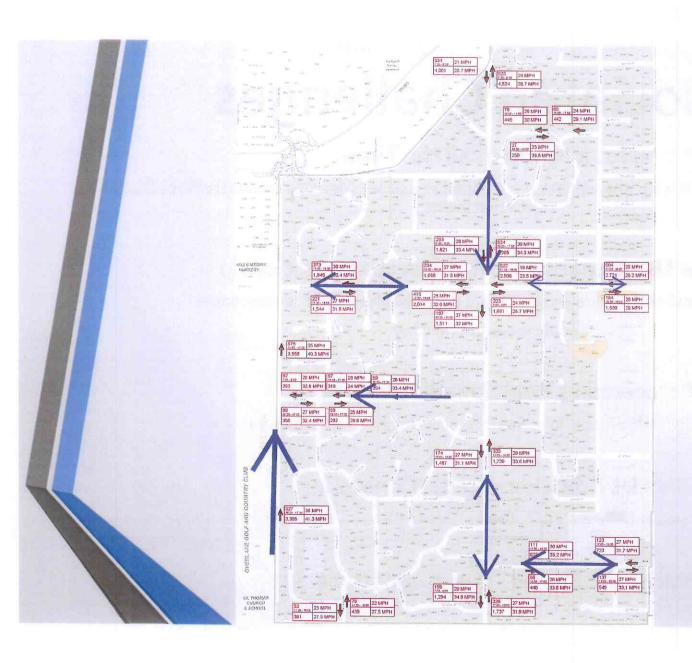
What safety concerns are most important?:

#1 Vehicle queues/blocking

#2 Exiting and entering

#3 Pedestrian crossing

#4 Biking along major road



Traffic Volume & Speed Map

Size of blue arrows signifies the identification /direction of speeding



Associated Challenges

Not a Problem all the Time

When 520 mainline flows all is well, when mainline is stopped (reasons outside of City control) traffic backs up and frustration builds

Greater Use/Reliance on Traffic Apps (WAZE, Google...)

Apps look for shortest route and don't care about neighborhood consequences

People use w/out thinking

Perceived vs Real Speeding Concerns

"Feeling" traffic is too fast - Speed Studies might show differently

Give Us A Sticker – Legal Constraints

Can't Legally Differentiate between "us and them" - Public Roads

Bellevue's Sound Transit Construction

Have Tried To Address Problems

Tried Various Cut-Through, Traffic Calming & Ped Safety Ideas

(bollard/intersection improvements, no left turn signs, enforcement...)

Encountered Problem of Balancing Effectiveness of Solutions with their Impacts to Clyde Hill Residents

Solutions Will Impact Residents

Council Traffic Sub-Committee

To address concerns, Council authorized 2016 Traffic Study

Good information & community input

Following up, formed a Traffic Sub-Committee

Met multiple times

Good input during meetings

Examined and developed the following

Traffic Sub-Committee

Looked at specific problems & perceived problems in Clyde Hill

Looked at pros/cons of most traffic calming and traffic management ideas to manage/solve problems

Recognized influence of Bellevue's downtown growth as well as traffic apps as part of the problem...not alone there

Recognized everyone wants a solution that will restrict others but not them...found out City can't discriminate, but can be strategic

Know that everyone has a traffic story to emphasize their problem but wanted this Plan & City actions to be data based

Developed a set of goals & guiding principles for a plan

Traffic Sub-Committee Objectives

Reduce cut-through traffic

Address traffic volume and traffic safety issues (primarily speed) on both arterial and non-arterial roads

Traffic Sub-Committee Guiding Principles

Motivate non-residents not to cut through Clyde Hill during evening rush hour by:

- Encouraging them to use better alternatives (e.g., Bellevue Way to SR 520)
- Making it harder to cut through Clyde Hill while minimizing any adverse impacts on local residents including neighboring Points cities

Residual non-resident traffic to use only arterials while passing through the City

- (i.e., non-arterials are to be used only by residents for local travel)

Traffic Sub-Committee Guiding Principles

- Search for solutions that are relatively simple and inexpensive to implement and can easily be removed or modified where appropriate
- Be sensitive to unintended consequences
- Get the message out:
 - (Clyde Hill is not a friendly place for unsafe driving or failure to respect traffic restrictions)
- Increase Police Visibility (especially in pm peak times)
- Increase Signage
 - (e.g., speed trailer, fixed signage such as "Your speed is")

Traffic Sub-Committee

- Hired Traffic Engineer to help staff develop ideas & management solutions
- Looked at situation from an overall city basis, using the principles
- Examined/refined overall City plan to make it more difficult for commuters (M-F-4pm-7pm) to cut through community...make it quicker to use Bellevue Way
- Recognized that portions of the Plan would restrict Clyde Hill residents too, so developed a Communications Plan & sequenced ideas in stages to allow for periodic Council evaluation

Traffic Sub-Committee Guiding Principles

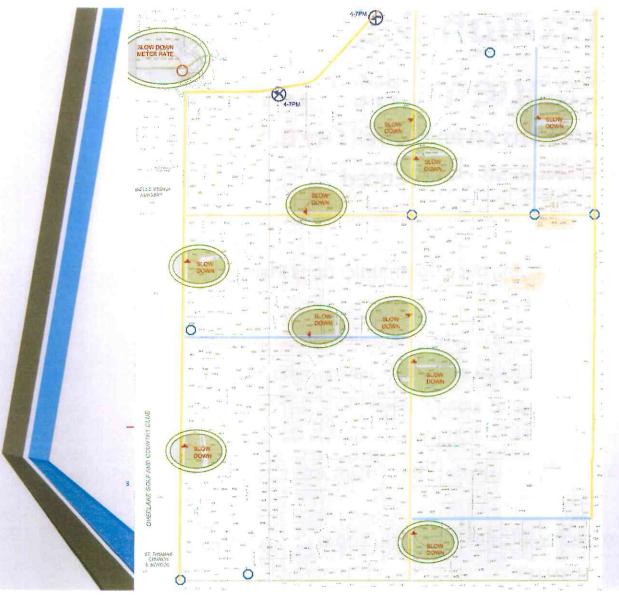
Communicate, Communicate, Communicate

- Create environment encouraging residents to share their concerns about traffic volumes and traffic safety with the City in an objective and constructive manner
- Be sure the problem is clearly defined. Is it a traffic volume or safety issue (e.g., speed traffic) or both?
- Develop and review potential solutions with residents. Get support of key local residents for neighborhood projects
- Notify residents of changes proposed for implementation
- If changes implemented, evaluate effectiveness & what, if any, were the negative impacts

Cut-Through & Speeding Management Plan

Manages problems on an Overall City Basis Strategically Sequenced

- 1st step immediately helps speeding and will collect speed/volume data that will be used for further analysis/decisions
- Subsequent ideas implemented after carrying out a Communications Plan
- Plan will take a lot of time to implement
 - Will take 3-4+ weeks to gather effectiveness data on any idea...need to analyze
 - Will be chaos/frustration during those 3-4 weeks until behavior is modified
 - May decide to modify/eliminate Plan ideas along the way
 - Must have a clear/unified message to share w/those that are frustrated
- Ability for Council to analyze & make go/no go decisions in between implementation of ideas
- Most of the Plan is budgeted
 - Except for implementation of new traffic signal (24/98)...also waiting on Medina (24/84)



FUTURE MODIFICATIONS

1. COMMUNICATION

A.) WSDOT - REDUCED RAMP METER RATE @ 84TH WB

B.) W/ BELLEVUE OTHER LOCAL JURISDICTIONS

C.) MOBILE RADIO UPDATES,

D.) COMMUNICATING TO WAZE AND GOOGLE

E.) COMMUNICATION TO LOCAL RESIDENTS SO THEY ARE AWARE OF THE CHANGES FIRST

- 2. ENFORCEMENT
- 3. PDCA PLAN, DO, CHECK, ACT

LEGEND

NO RIGHT ON RED/TURN RESTRICTIONS ARE WEEKDAYS 4-7PM.

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STOP CONTROLLED I/S



EXISTING TURN
RESTRICTIONS WEEKDAYS
4-7PM

-

LED SPEED SIGN



ARTERIAL

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NEW TRAVEL PATH THRU ROUNDABOUT

SECONDARY ARTERIAL

Phase 1
Cut-Through
Traffic
Management
& Speeding
Plan

(10) Solar Speed Signs

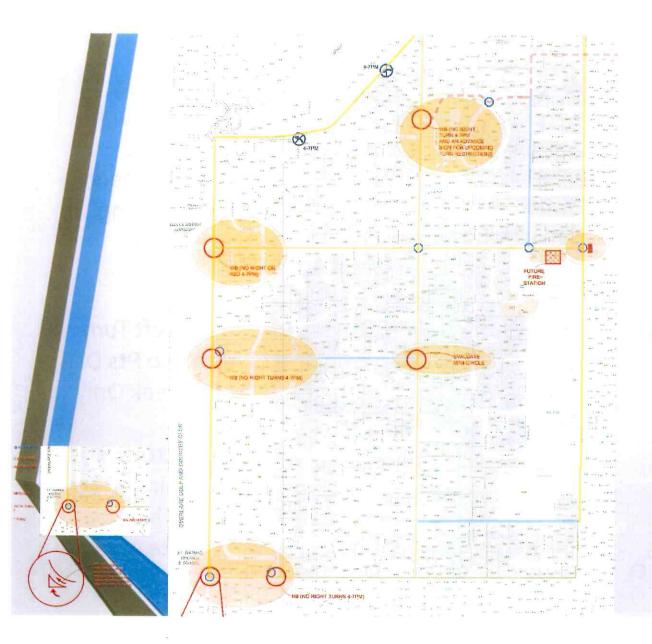
Tweak Ramp Metering



Phase 2
Cut-Through
Traffic
Management
& Speeding
Plan

No Left Turn (92nd to Pts Dr) PM Peak Only

Buttons & Flashing Stop Sign in Aqua Vista Area



FUTURE MODIFICATIONS

1. COMMUNICATION

A.) WSDOT - REDUCED RAMP METER RATE @ 84TH WB

B.) WI BELLEVUE OTHER LOCAL JURISDICTIONS

C.) MOBILE RADIO UPDATES

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2. ENFORCEMENT

3. PDCA - PLAN, DO, CHECK, ACT

LEGEND

NO RIGHT ON RED/TURN RESTRICTIONS ARE WEEKDAYS 4-7PM.

STOP CONTROLLED I/S

EXISTING TURN
RESTRICTIONS WEEKDAYS
4-7PM

LED FLASHING STOP SIGN

FUTURE SIGNALIZED STOP SIGN

ARTERIAL

SECONDARY ARTERIAL

NEW TRAVEL PATH THRU ROUNDABOUT

CURRENT CUT THRU
PATTERN

Phase 3

Other Left Turn PM Restrictions

12th/84th HOV Stop

24th/98th Traffic Signal

Key Elements of Success

Engineering
Education
Enforcement

It will take all 3 to be successful

How To Measure Success

New solar speed signs will collect both traffic speeds and traffic volumes

This information will allow evaluation before/after impacts of new plan elements

Will collect and use the following to evaluate effectiveness:

Speed

- o Average speed
- o 85th percentile
- o % of cars traveling at no faster than 5MPH over the speed limit

Volumes

- o AADT
- o Weekday traffic average
- o Weekday PM traffic 4-7pm total
- o Weekday Peak hour traffic (noting the peak hour)

Cut-Through Traffic

- o Difference (#) between peak 4-7 PM count (towards 520) and the 4-7 PM count on a similar peak average count.
 - -The 7-9 AM count will serve as a lowest end variable...will have a larger delta when the counts are compared
 - Comparing w/the average will provide the other end of the spectrum showing the total cut through is somewhere in-between these numbers

Not yet sure how or if we even want to keep track of weather or other outside influences like a sporting event or a traffic jam on I-5