# Bellevue Way SE HOV – 112th Ave SE 'Y' to South Bellevue P&R

## Design Options Analysis

**February 9, 2017 – Transportation Commission**

**Presenters:**
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Justin Matthews, KPFF Consulting Engineers
Meagan Powers, Concord Engineering, Inc.

# Tonight's Purpose:

- Describe project and public outreach
- Describe design options
- Provide survey results from January 19th Open House
- Discuss next steps
- Questions and comments

# Future Changes Near Bellevue Way SE

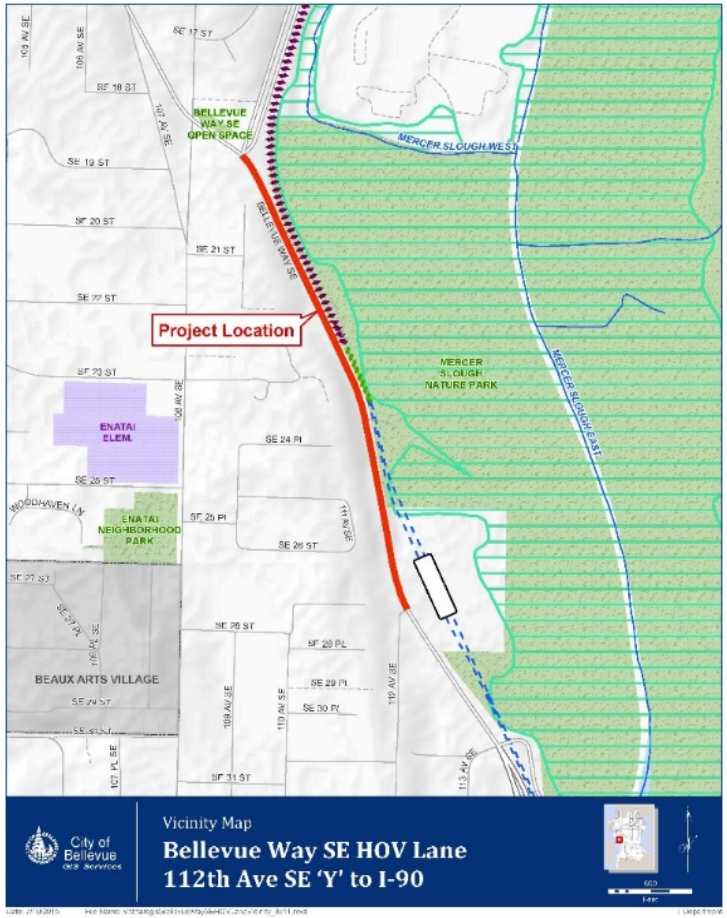
## East Link will:

- Close SB Bellevue P&R
- Construct Light Rail Station
- Expand P&R 519 stalls to 1500 stalls
- Build SB HOV lane from P&R to I-90

## WSDOT will:

- adding EB and WB HOV lanes on I-90 to replace express lanes

# Bellevue Way SE Southbound HOV Project



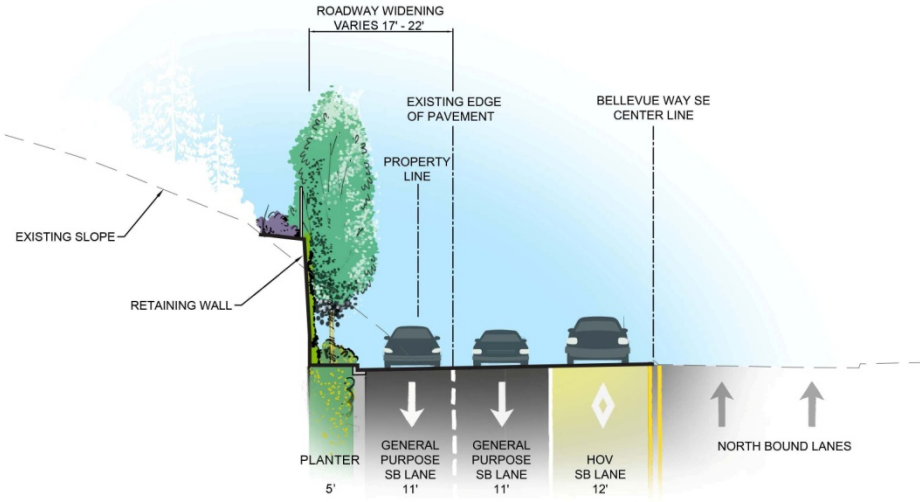

## Project Objectives as defined in CIP:

- Reduce traffic congestion in PM peak
- Reduce delay in services for buses
- Improve multi-model access

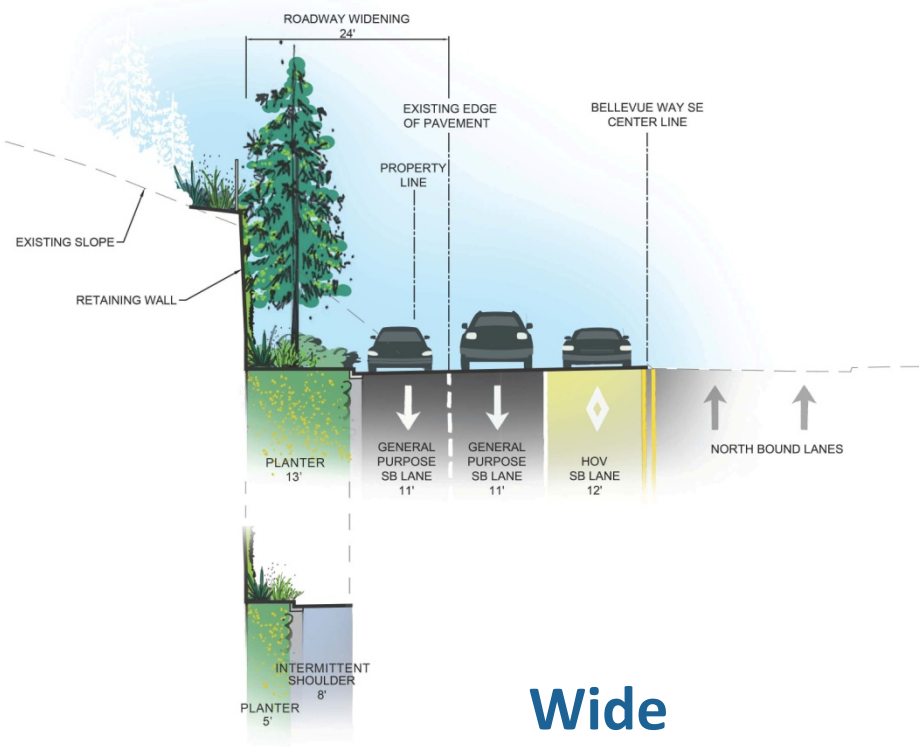
# Public Involvement: To Date

- Newsletter to introduce the project: March 2016
- Small group community briefings: Spring 2016
- 1st Public Open House & Online: June 2016
- Incorporated community feedback: Summer/Fall 2016
- City Council update on design options: January 9th, 2017
- 2nd Public Open House & Online: January 19th, 2017

# SB HOV Project Roadway Width:
## Narrow Section vs. Wide Section

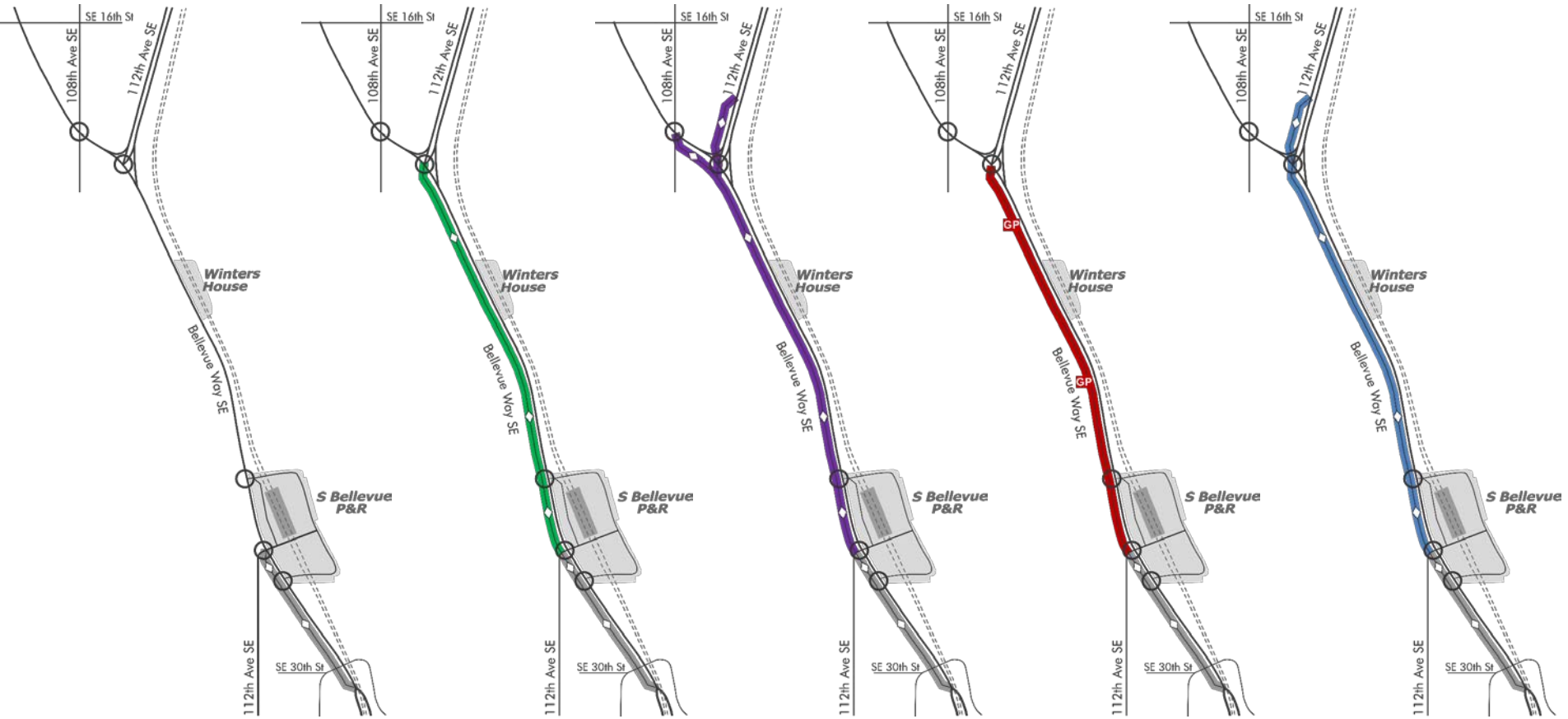



Narrow




Wide

# Traffic Study: Options Modeled

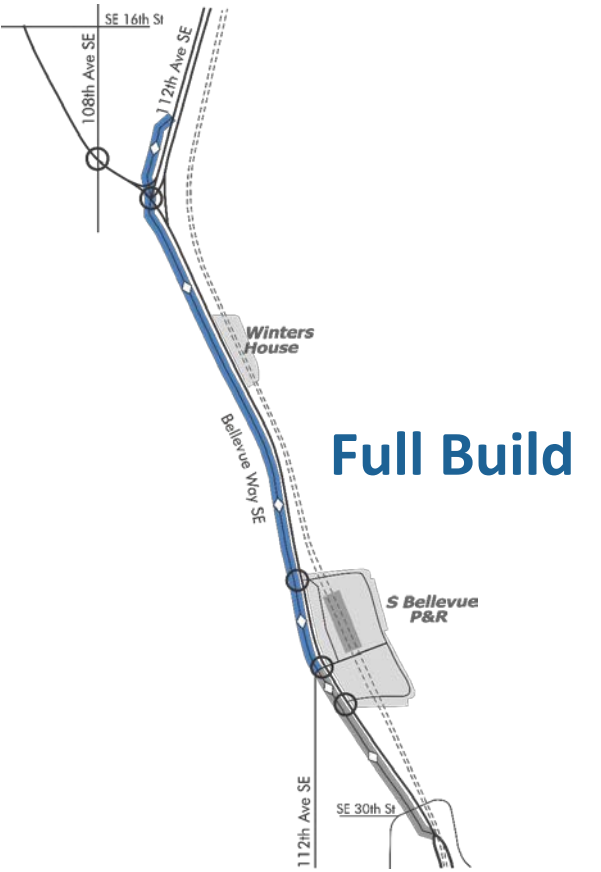



2030 Future Baseline | Option 1 | Option 2 | Option 3 | Option 4

# Comparison of Southbound Throughput & Travel Time Savings (PM Peak)

| | 2015 Existing Conditions | 2030 Future Baseline | Option1: HOV to "Y" | Option 2: HOV through "Y" | Option 3: GP Lane to "Y" | Option 4: HOV through "Y" 112th Only |
|---|---|---|---|---|---|---|
| **Throughput** | | | | | | |
| **Vehicles** | 2,284 | 2,164 | 2,488 | 2,493 | 2,281 | 2,463 |
| **People** | 3,252 | 4,056 | 4,691 | 4,708 | 4,256 | 4,670 |
| **From Bellevue Way SE** | | | **Change in PM Peak SB Travel Times from 2030 Baseline** | | | |
| **SOV** | 5.6 min | 7.5 min | -0.2 min | 0.5 min | 2.4 min | 0.4 min |
| **HOV** | 5.6 min | 7.2 min | -2.8 min | -2.8 min | 2.2 min | -2.5 min |
| **Transit** | 5.7 min | 6.7 min | -2.0 min | -2.3 min | 1.9 min | -2.0 min |
| **From 112th Ave SE** | | | **Change in PM Peak SB Travel Times from 2030 Baseline** | | | |
| **SOV** | 7.6 min | 9.9 min | -0.2 min | 0.5 min | 2.6 min | 0.2 min |
| **HOV** | 7.6 min | 9.5 min | -2.8 min | -3.9 min | 2.3 min | -4.5 min |
| **Transit** | 6.2 min | 10.6 min | -3.0 min | -3.6 min | 2.8 min | -4.6 min |
| **Annual Travel Time Savings ($)** | | | $1,387,075 | $1,347,535 | -$1,951,067 | **$1,477,686** |

# Potential Phasing of Option 4

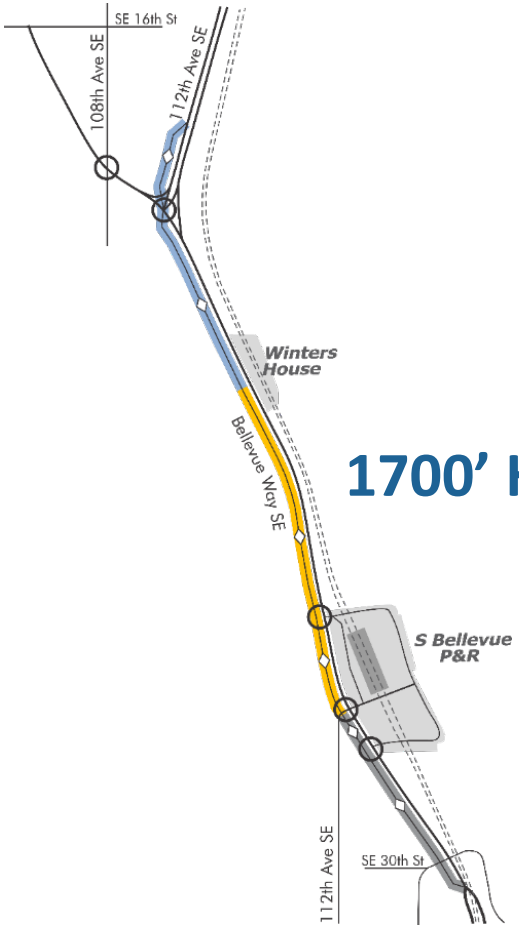



## Full Build

| Narrow Option | Wide Option |
|---|---|
| $30,800,000 | $40,000,000 |


## 320’ HOV

| Narrow Option | Wide Option |
|---|---|
| $5,000,000 | $9,000,000 |




## 1700’ HOV

| Narrow Option | Wide Option |
|---|---|
| $23,000,000 | $31,000,000 |

# January 19th Open House Feedback

- **Preferred Length:** Option 2 – 33% (10 of 30)
- **Acceptable Length:** Option 4 – 70% (21 of 30)
- **Preferred Width:** Wider option – 61% (22 of 36)
- **Construction Phasing:**
  - No phased approach – 56% (18 of 32)
  - If phased, option 4B (to Winters House) – 60% (9 of 15)
- **Aesthetics Design:** Supported – 75% (20 of 28)
- **Noise Walls:** Continue considering – 63% (20 of 32)
- **Project Opposition:** 10% (4 of 40)

Please note that respondents did not always answer all questions.

# Next Steps

- Return to Transportation Commission on March 9th to seek recommendation on a staff-preferred option
- Return to the City Council on March 27th to present recommendation on a preferred option and seek direction on next step

# Questions?


**Contact Information:**
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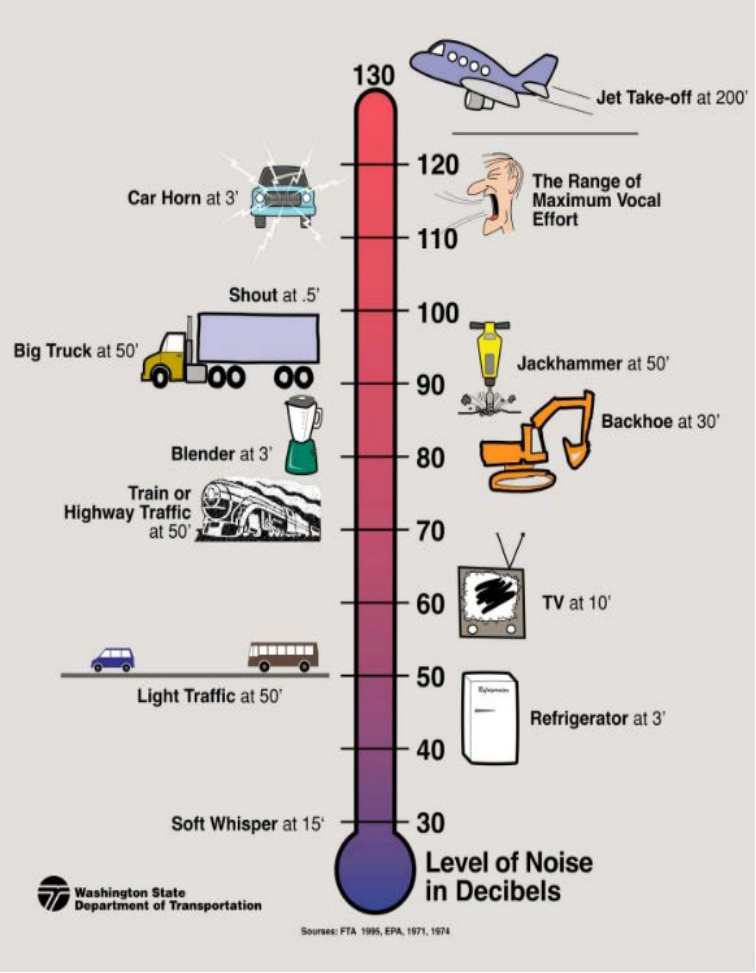
# Noise

| Condition | Noise Level |
|---|---|
| Existing Noise Level | 64 to 69 dB |
| Without Project (w/ growth by 2030) | Add 0 to 1 dB |
| With Project (No Noise Wall) | Change -2 to 2 dB |
| With Project (10’ to 20’ Noise Wall) | Reduce by 2 to 7 dB |




## Noise Walls facts:

- 10’ to 20’ would be in addition to 5’ to 20’ retaining walls needed
- Will block views
- Need to be continuous to be effective
- Cost approximately $2M