Federal Way Link Extension

Draft Environmental Impact Statement

NOISE AND VIBRATION TECHNICAL REPORT

Appendix G3







Federal Way Link Extension

Noise and Vibration Technical Report

Prepared for:
Sound Transit

Prepared by:
HDR Inc.
Michael Minor & Associates, Inc.
ATS Consulting
CH2M HILL

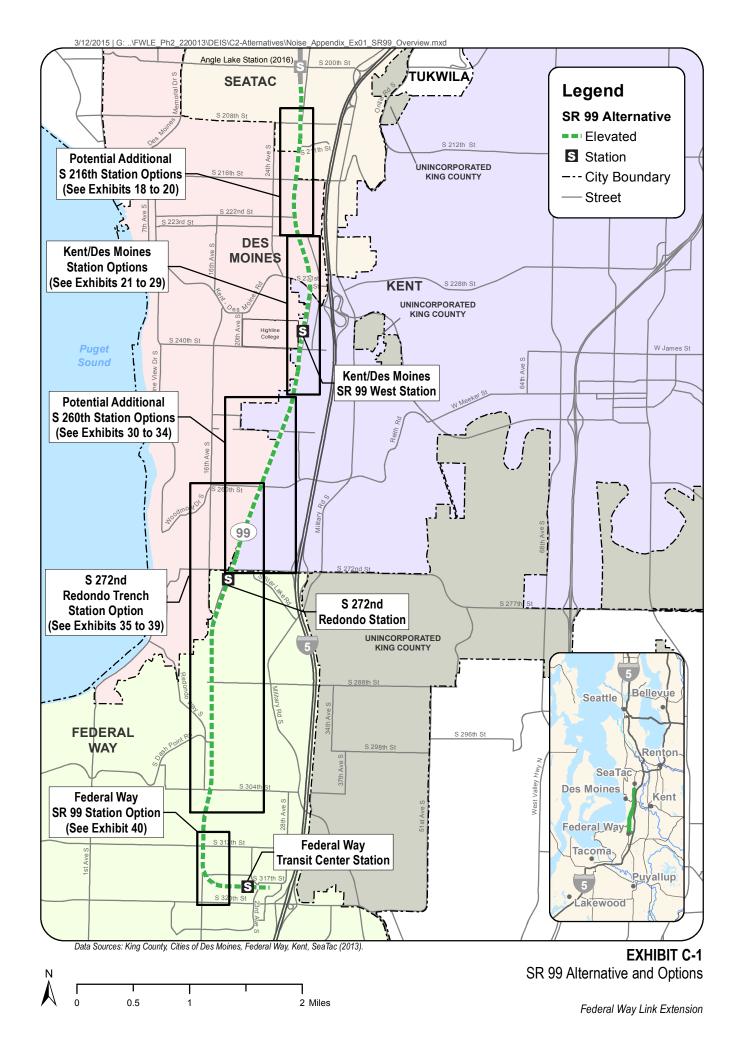
April 2015

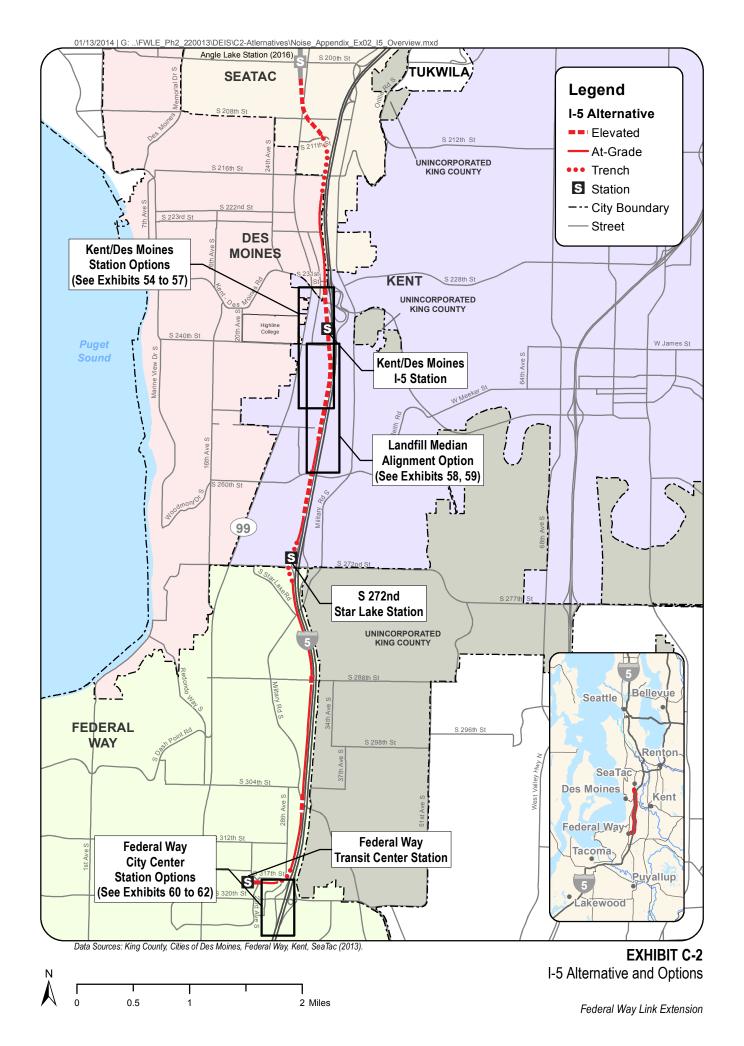


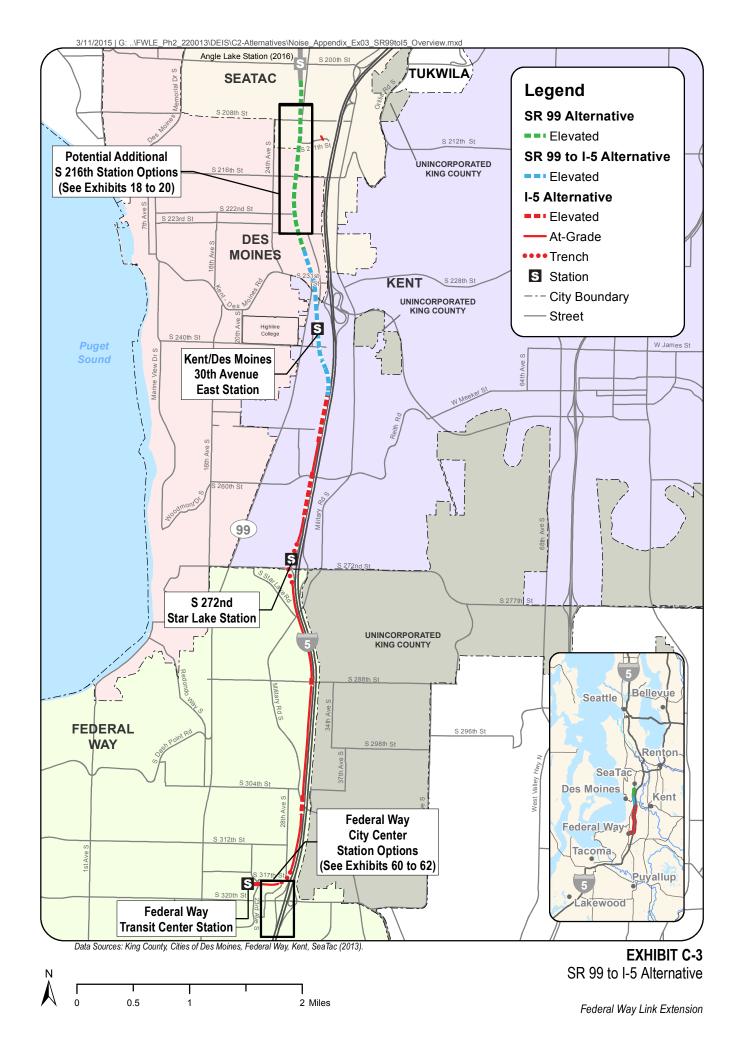


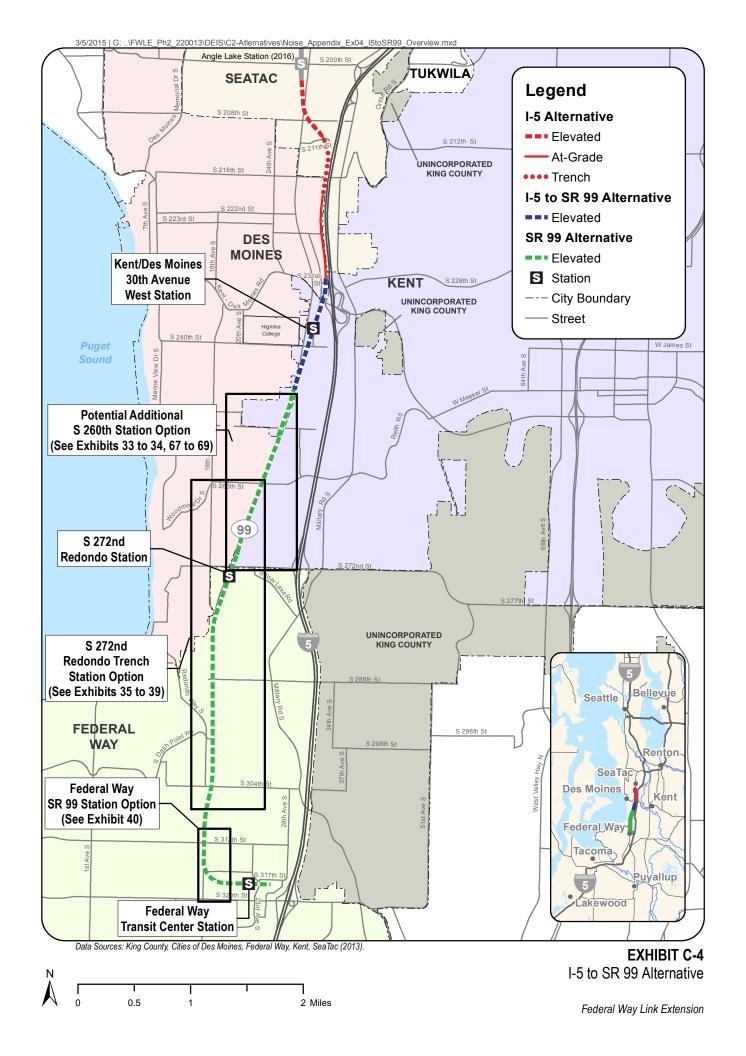


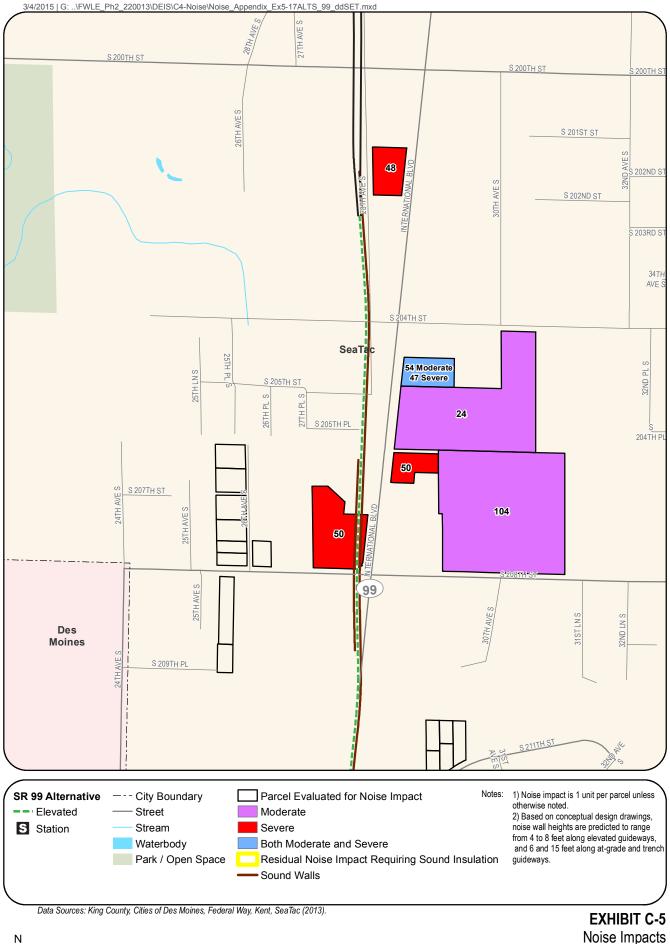






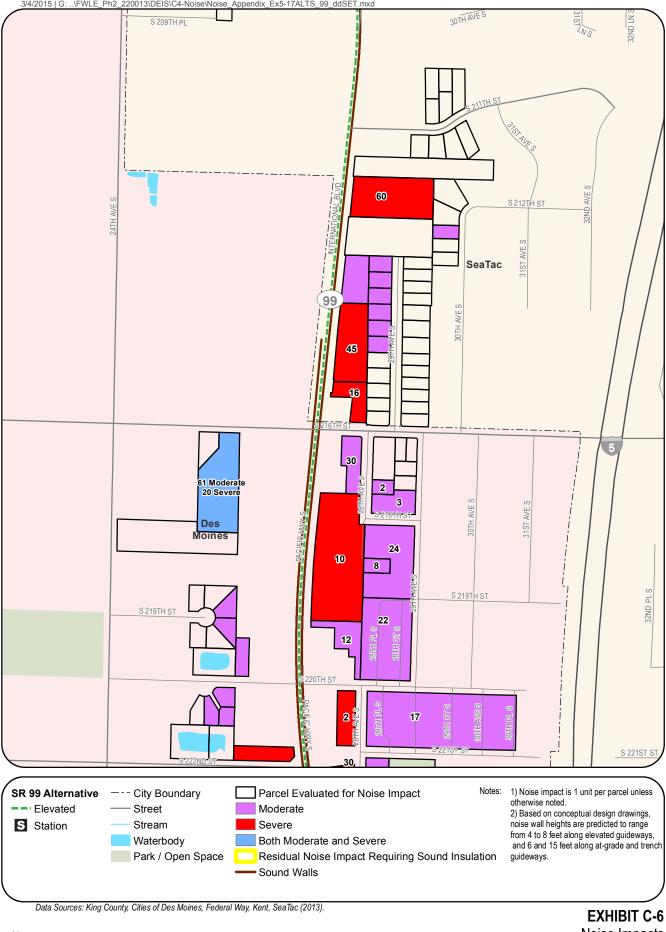






Noise Impacts SR 99 Alternative

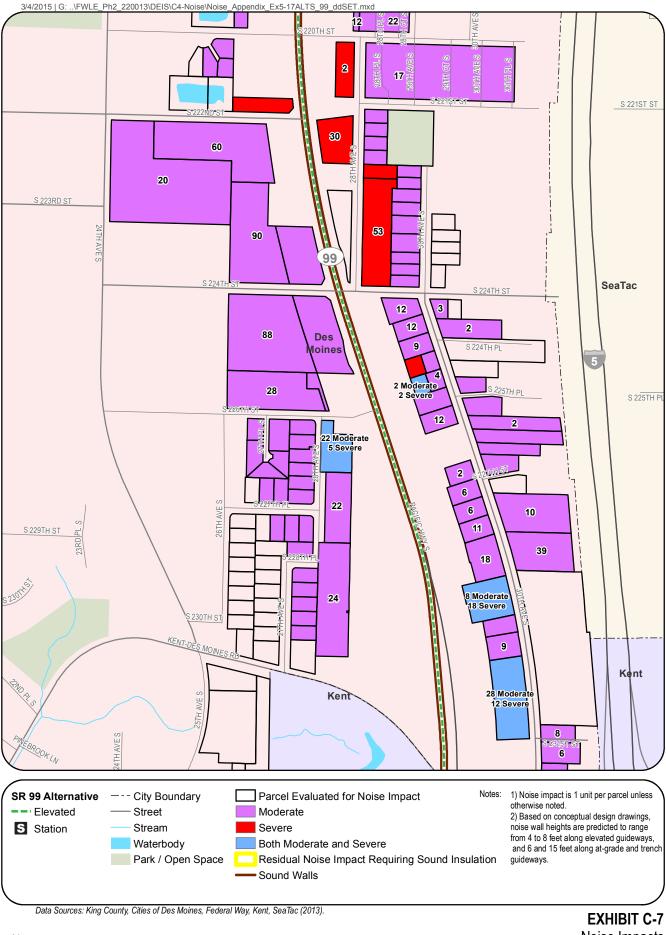
Federal Way Link Extension

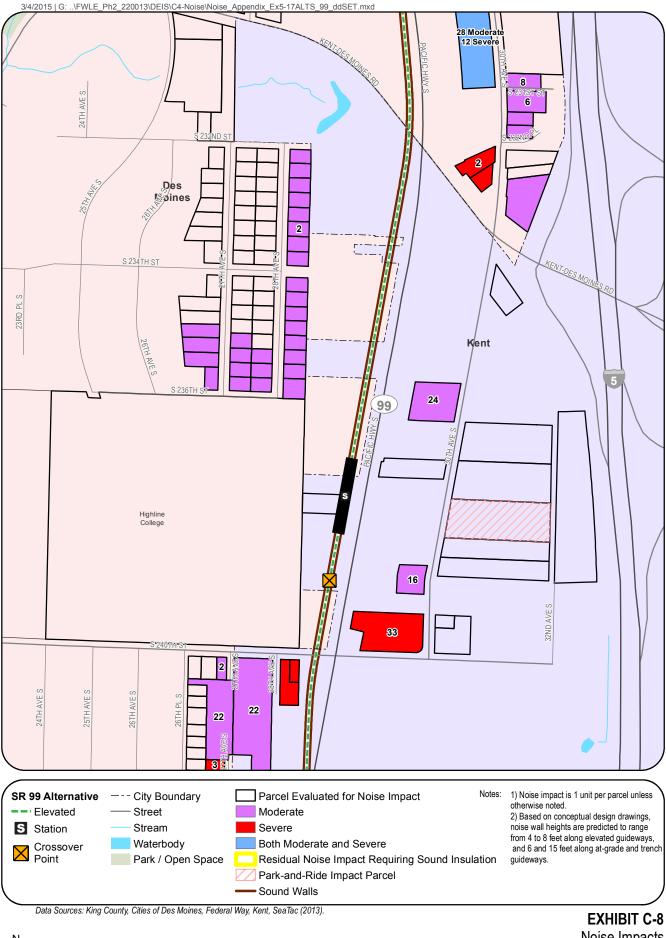


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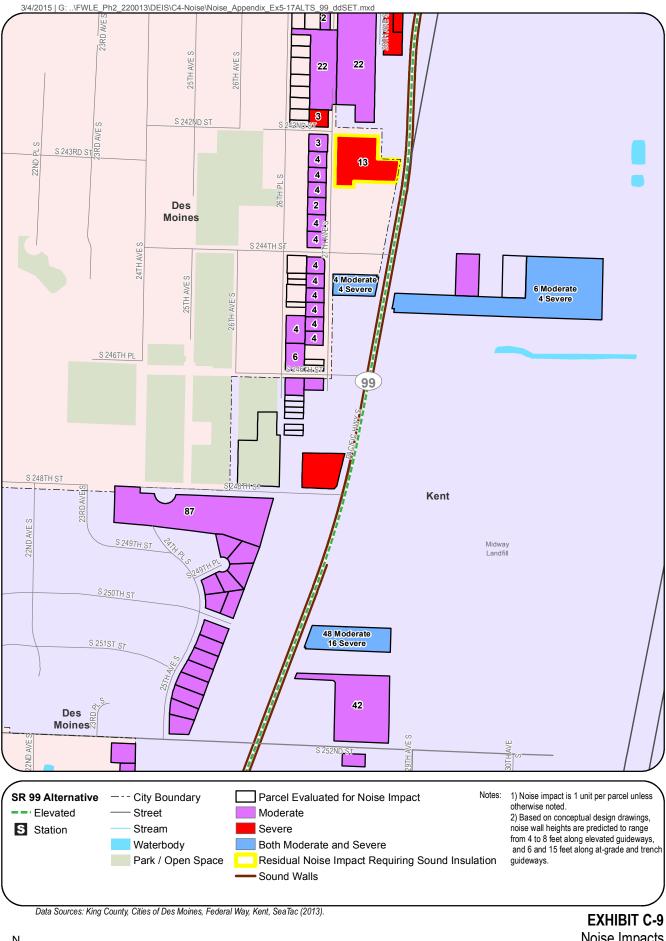
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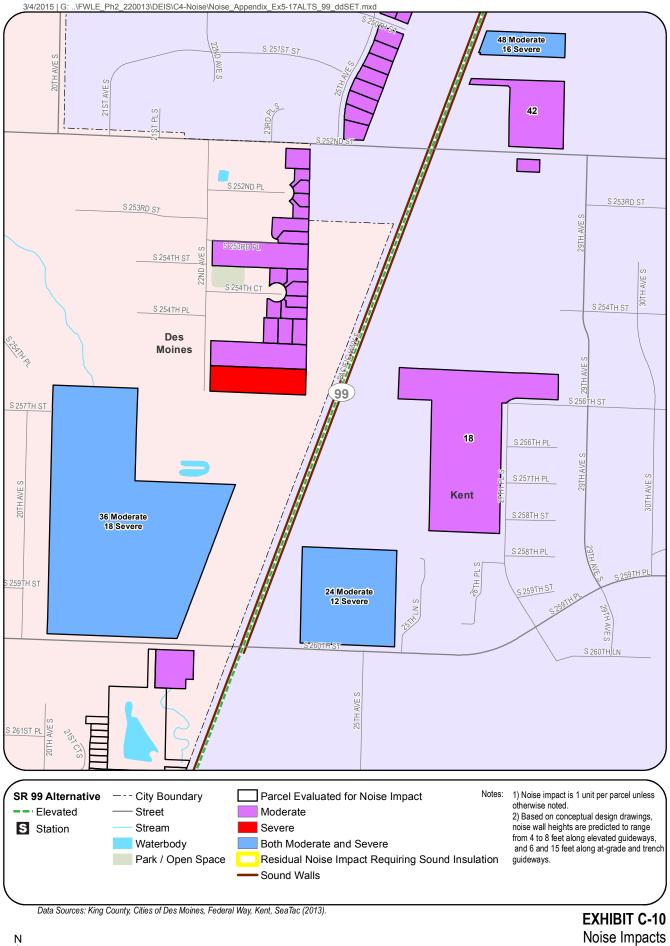


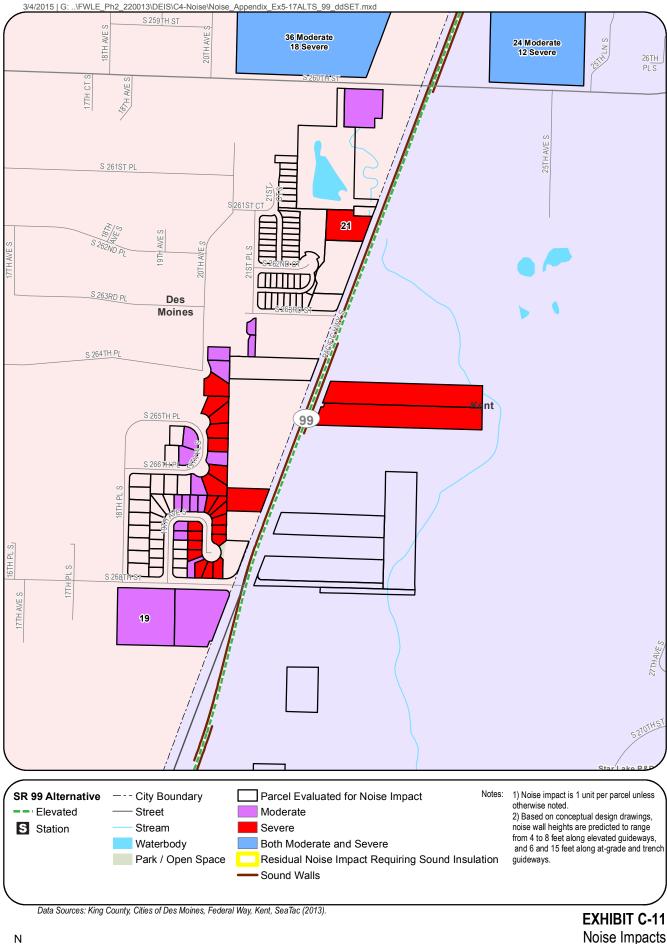


Noise Impacts SR 99 Alternative

Federal Way Link Extension



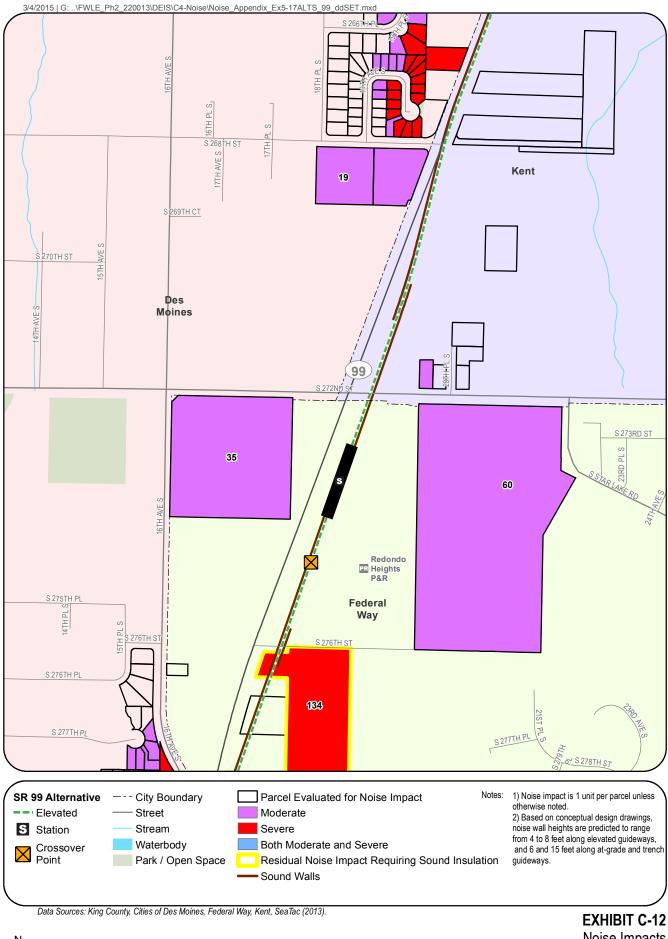


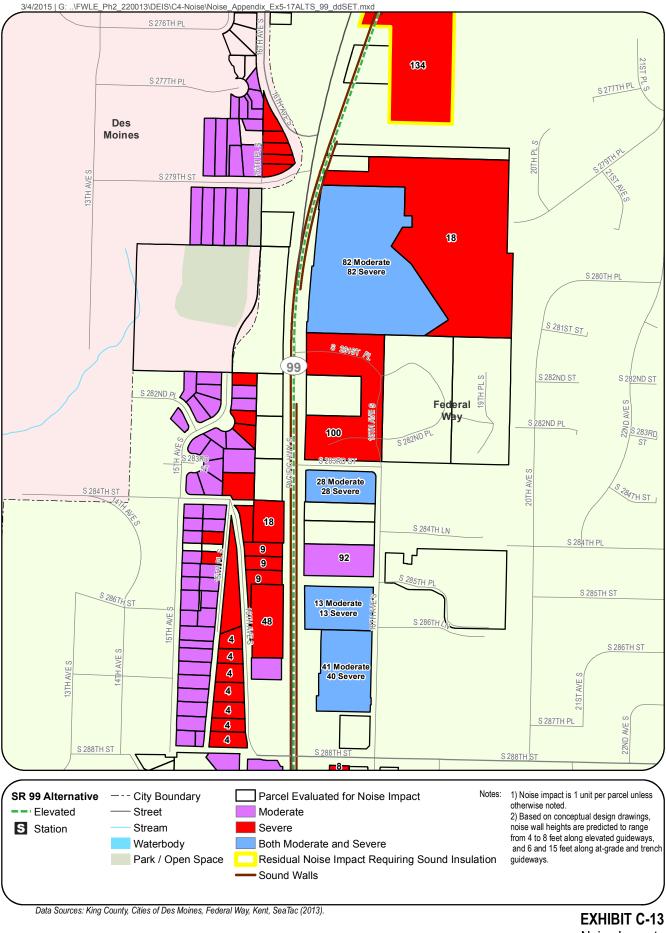


250 500 1,000 Feet

Noise Impacts SR 99 Alternative

Federal Way Link Extension

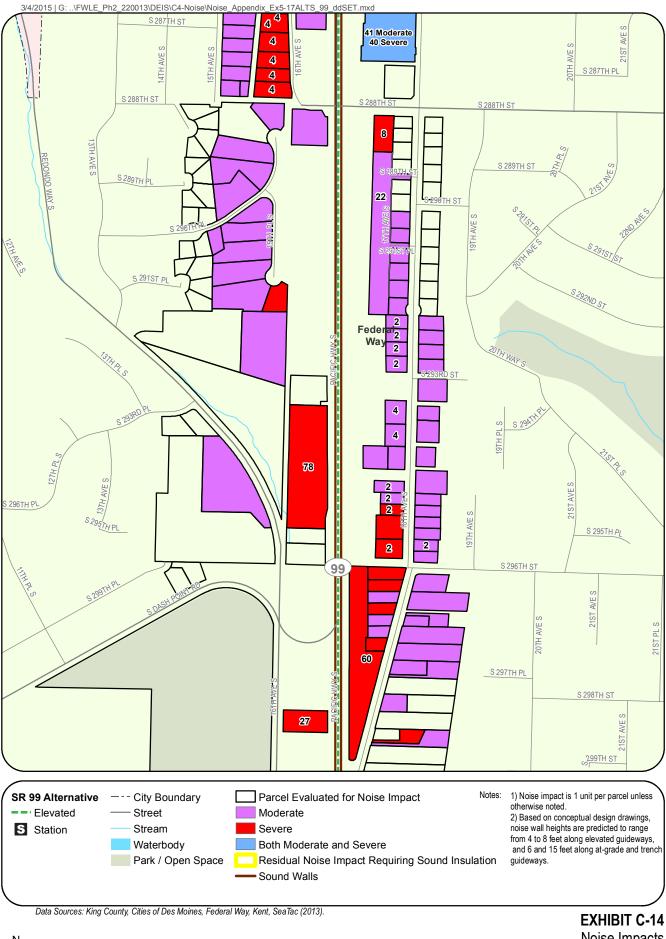


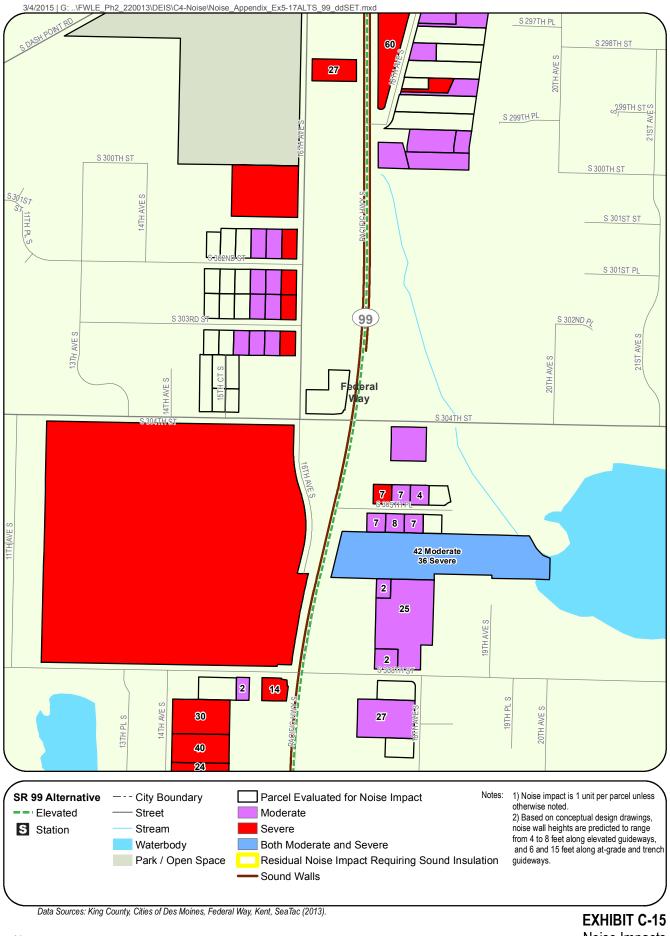


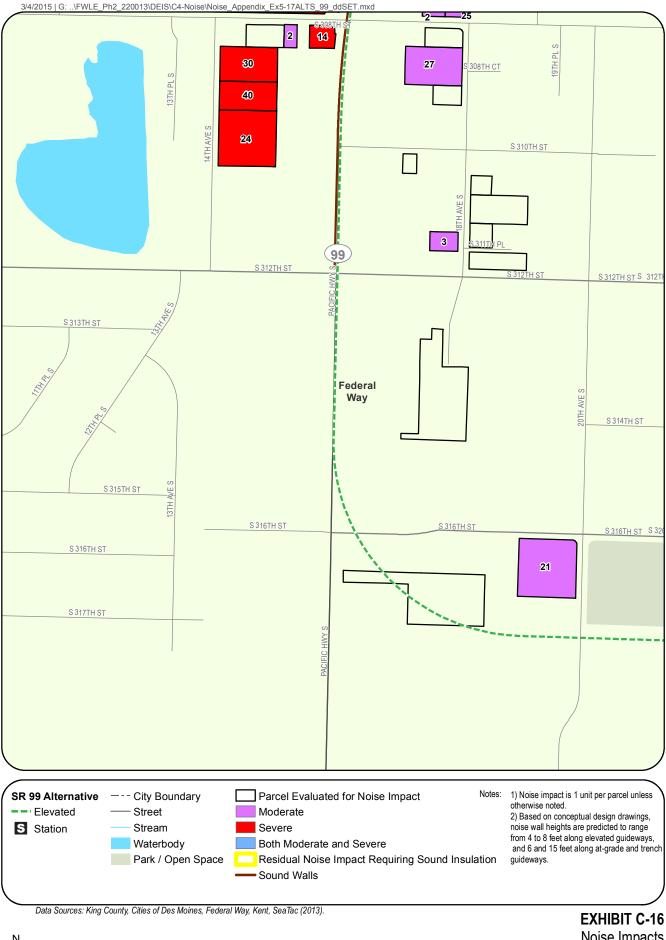
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250



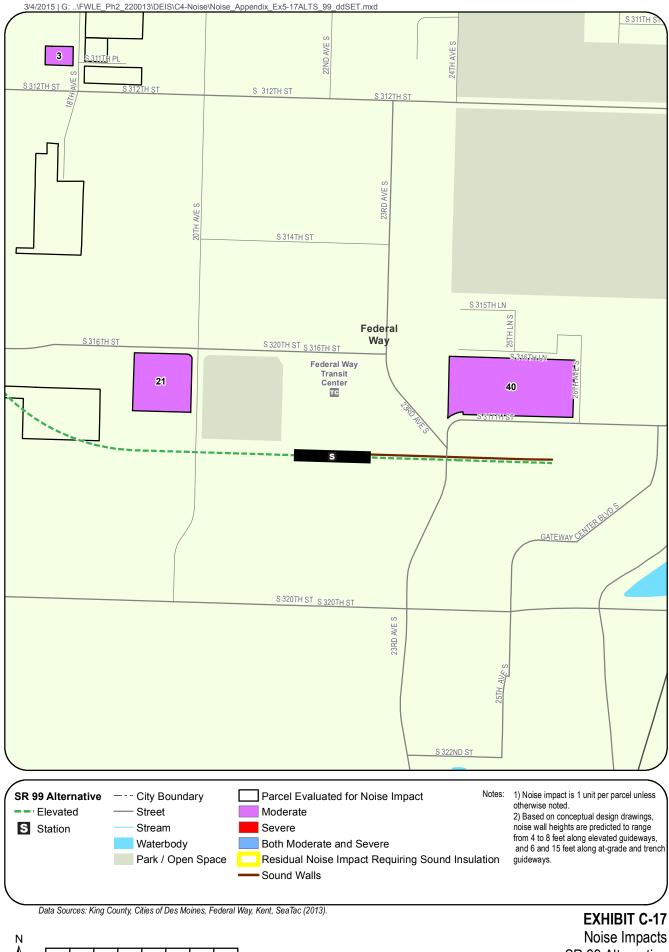




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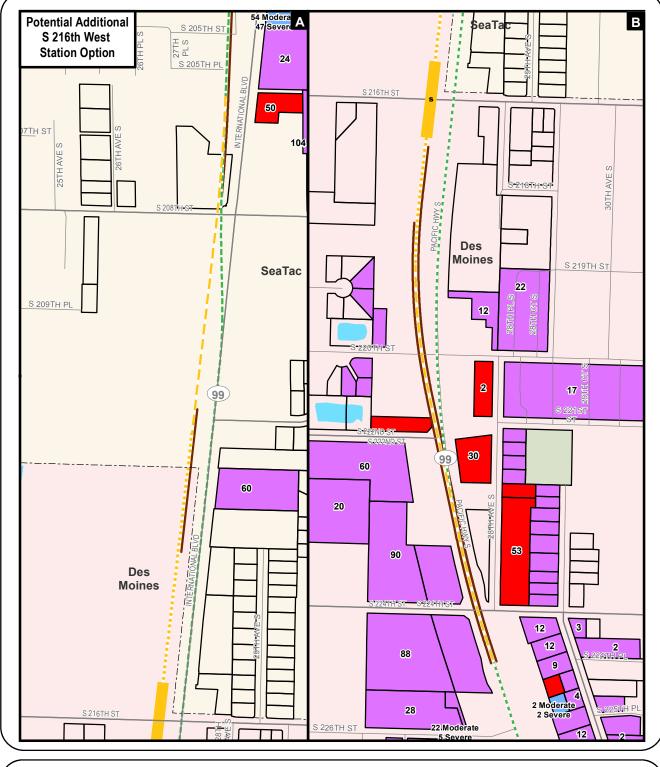
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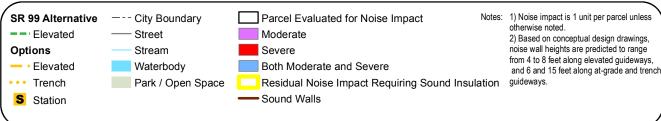


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1,000 Feet

SR 99 Alternative Federal Way Link Extension



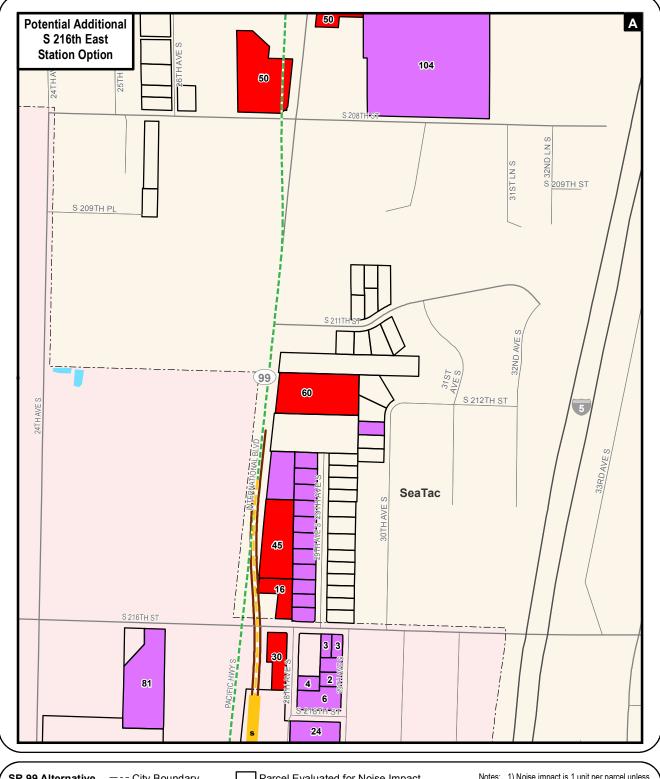


1,000 Feet

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500

EXHIBIT C-18 Noise Impacts SR 99 Alternative S 216th West Station Option Federal Way Link Extension



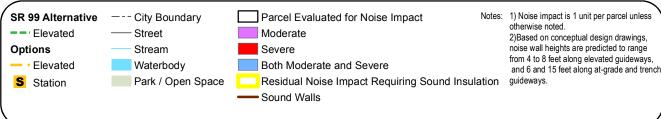
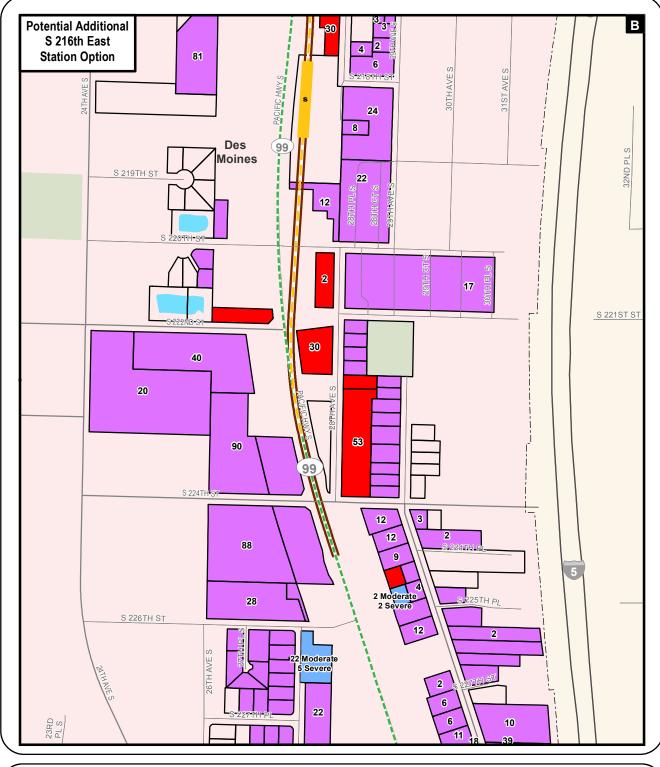


EXHIBIT C-19
Noise Impacts
SR 99 Alternative S 216th East Station Option
Federal Way Link Extension



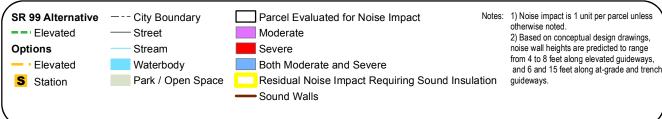
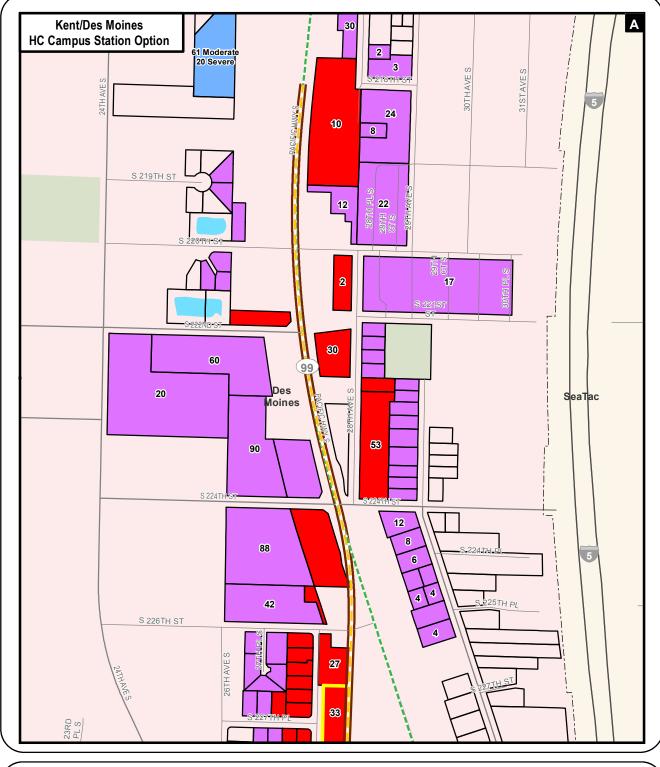
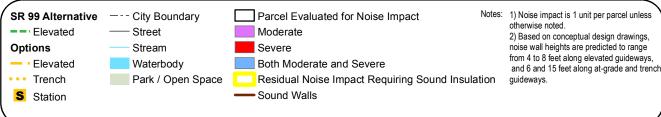
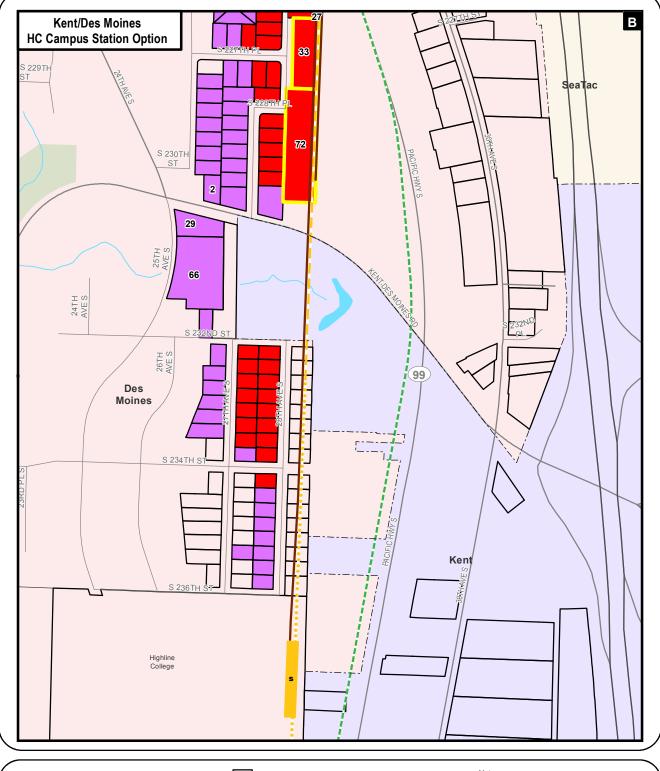


EXHIBIT C-20 Noise Impacts SR 99 Alternative S 216th East Station Option Federal Way Link Extension







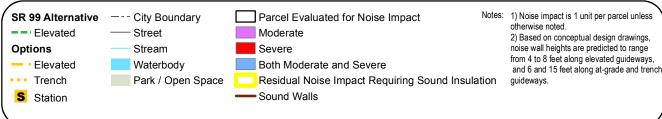
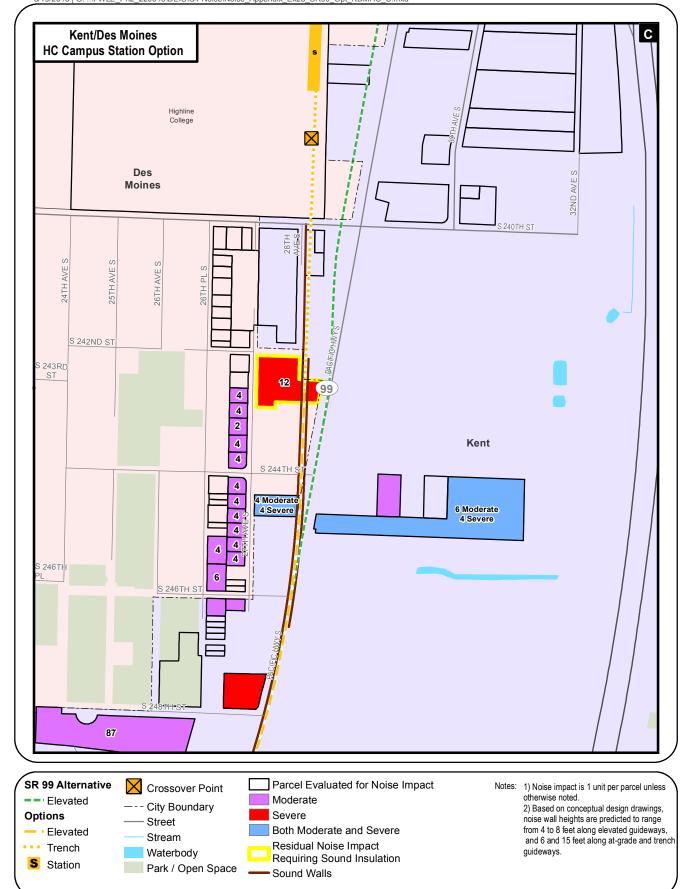
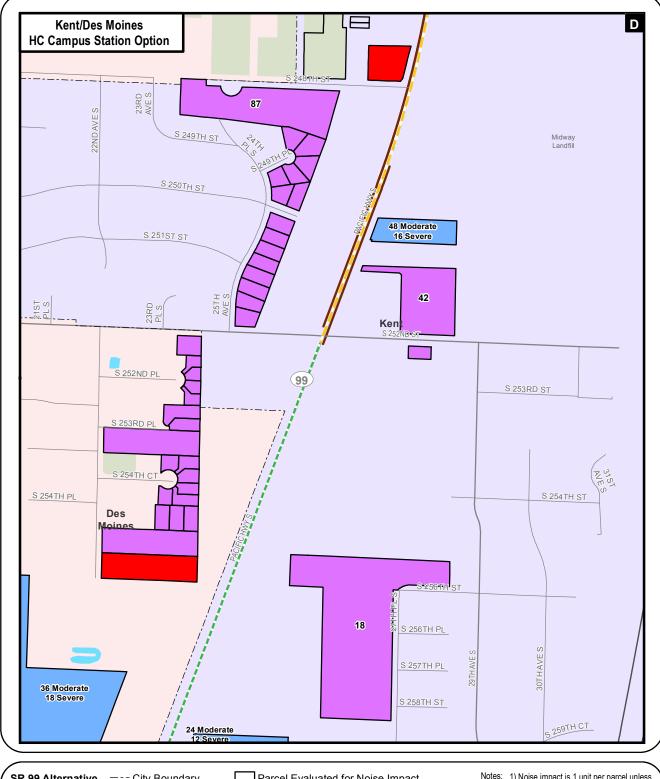


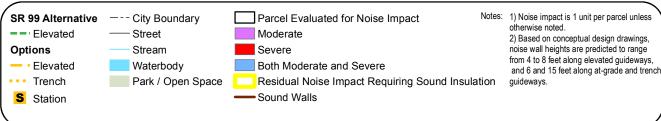
EXHIBIT C-22

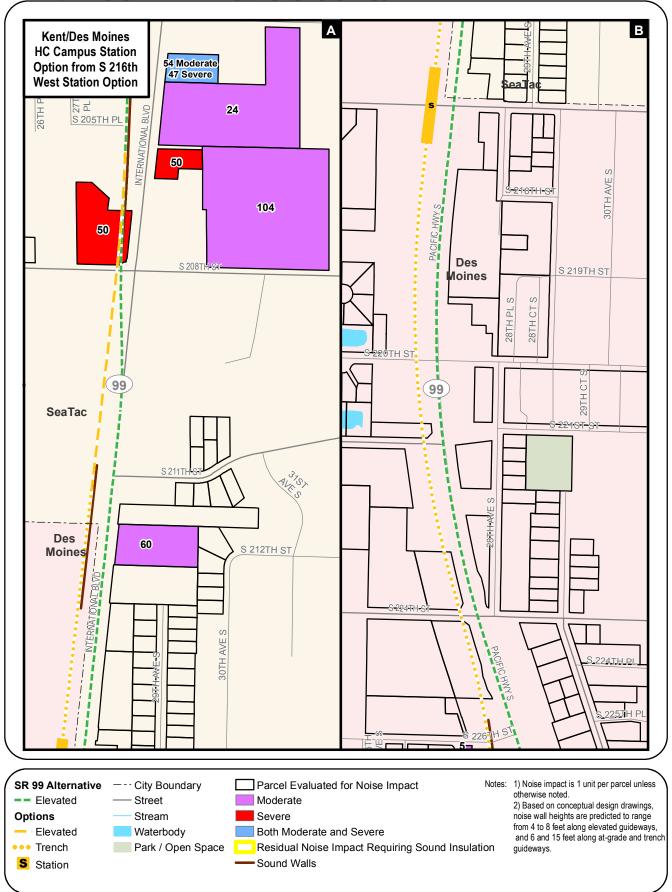
Noise Impacts

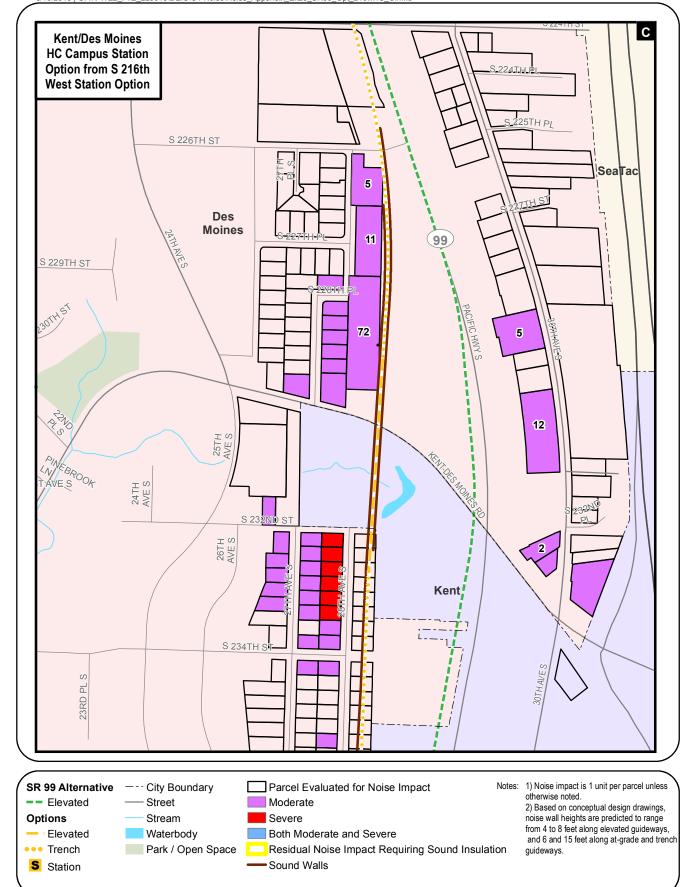


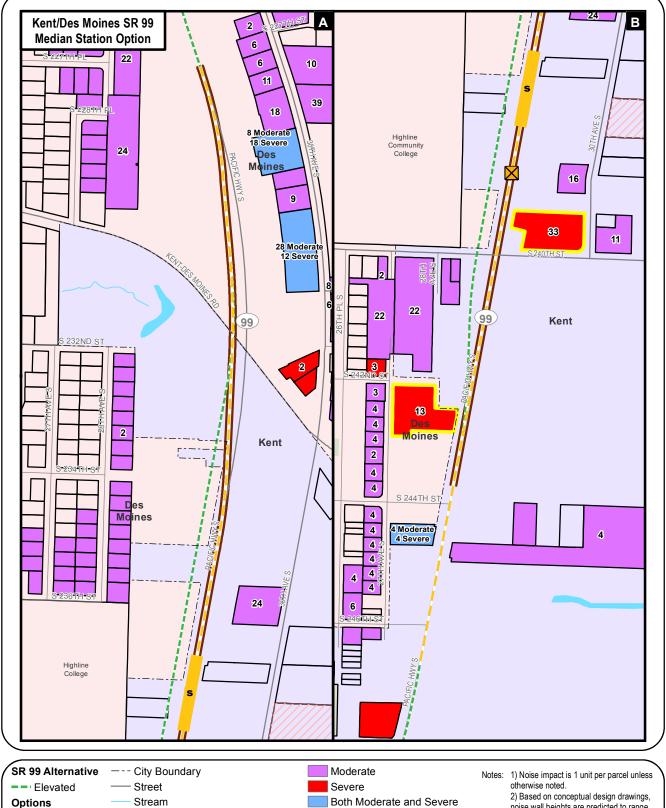
SR 99 Alternative Kent/Des Moines HC Campus Station Option Federal Way Link Extension











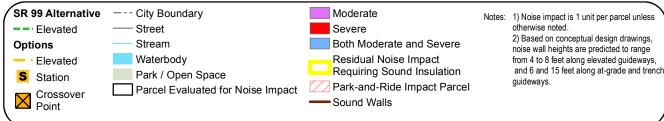
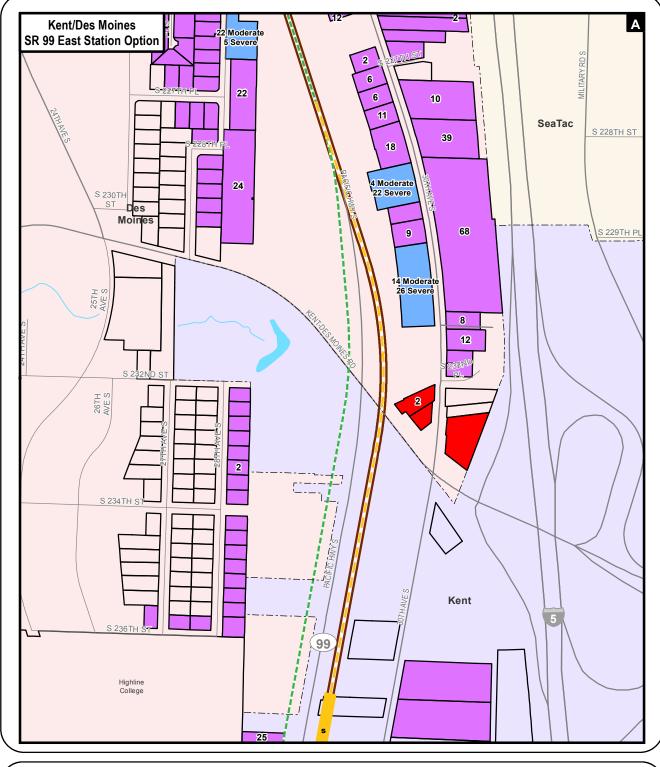


EXHIBIT C-27 Noise Impacts lian Station Option



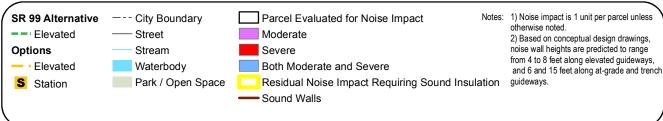
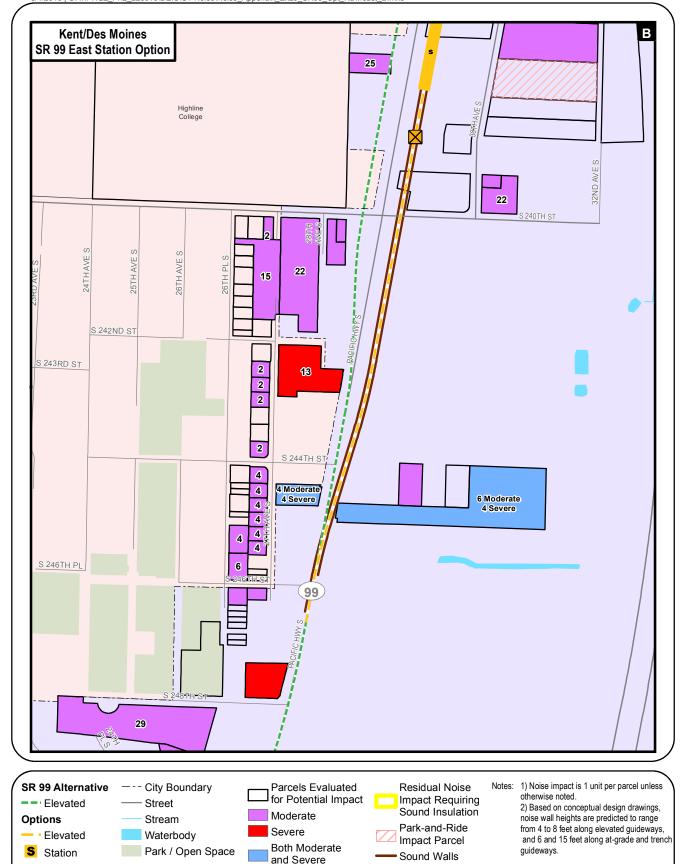


EXHIBIT C-28 Noise Impacts SR 99 Alternative Kent/Des Moines SR 99 East Station Option Federal Way Link Extension



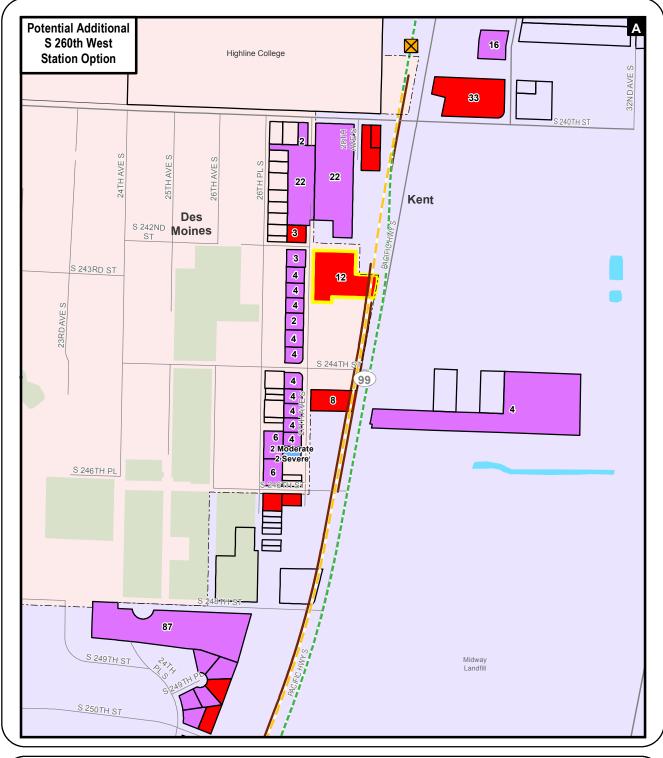
1,000 Feet

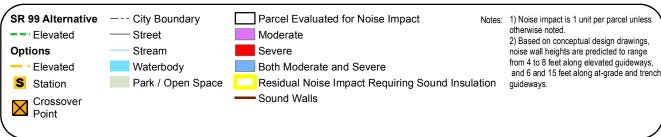
Crossover Point

250

500

REXHIBIT C-29
Noise Impacts
SR 99 Alternative Kent/Des Moines SR 99 East Station Option
Federal Way Link Extension



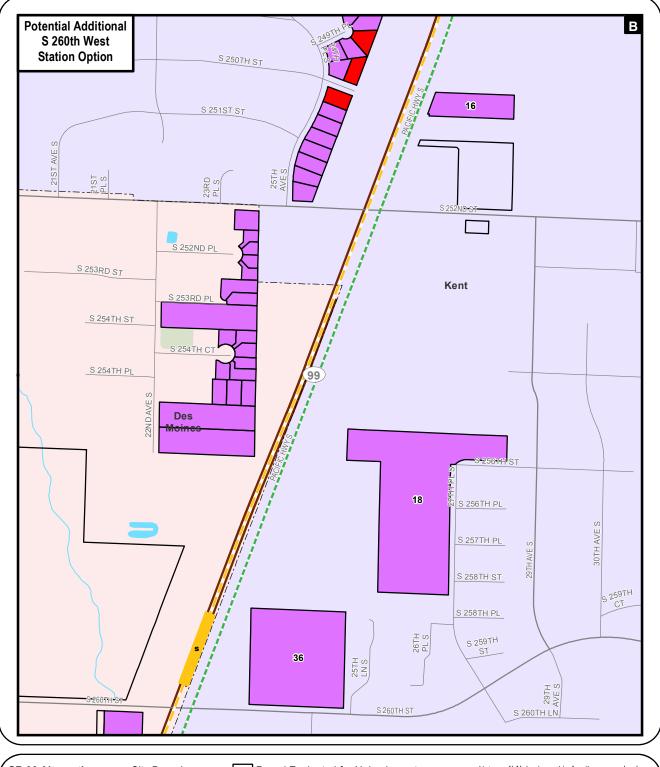


1,000 Feet

250

500

EXHIBIT C-30
Noise Impacts
SR 99 Alternative S 260th West Station Option
Federal Way Link Extension



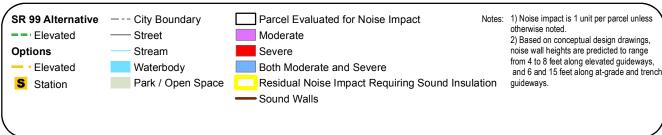
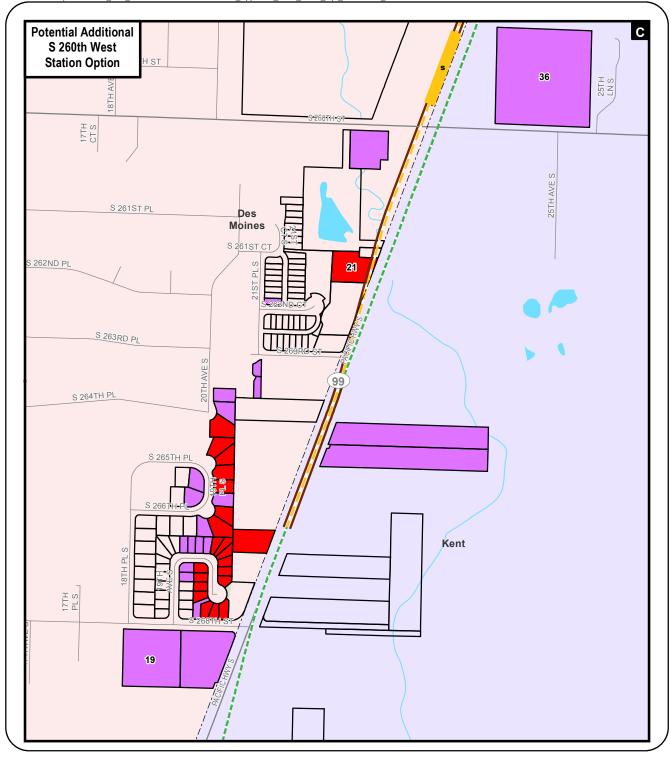


 EXHIBIT C-31
Noise Impacts
SR 99 Alternative S 260th West Station Option
Federal Way Link Extension



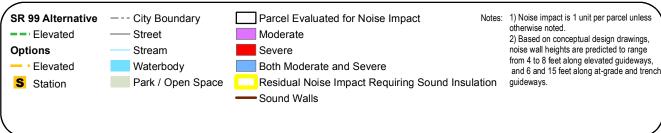
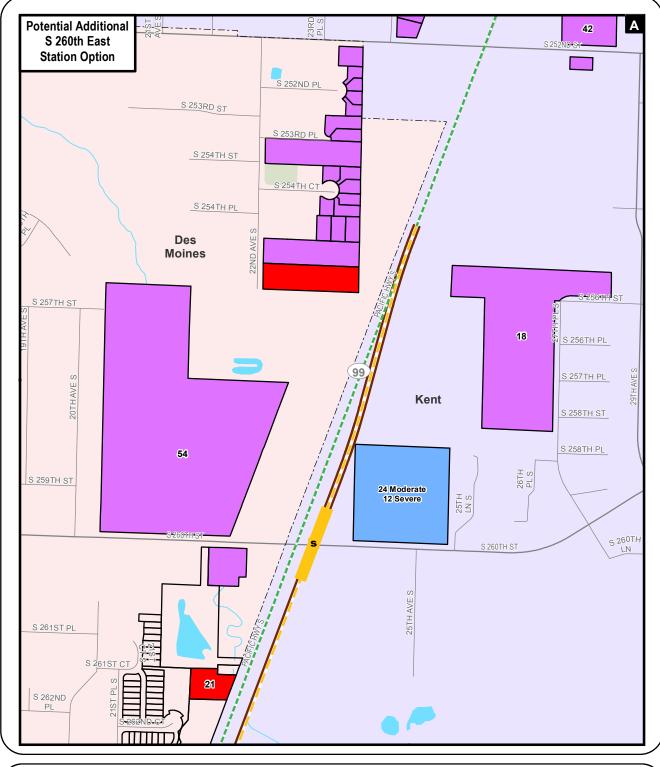


EXHIBIT C-32
Noise Impacts
SR 99 Alternative S 260th West Station Option
Federal Way Link Extension



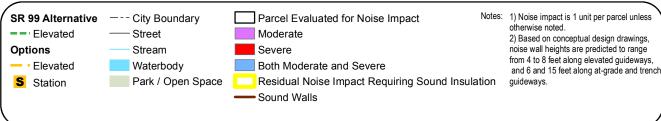


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Noise Impacts
SR 99 Alternative S 260th East Station Option
Federal Way Link Extension

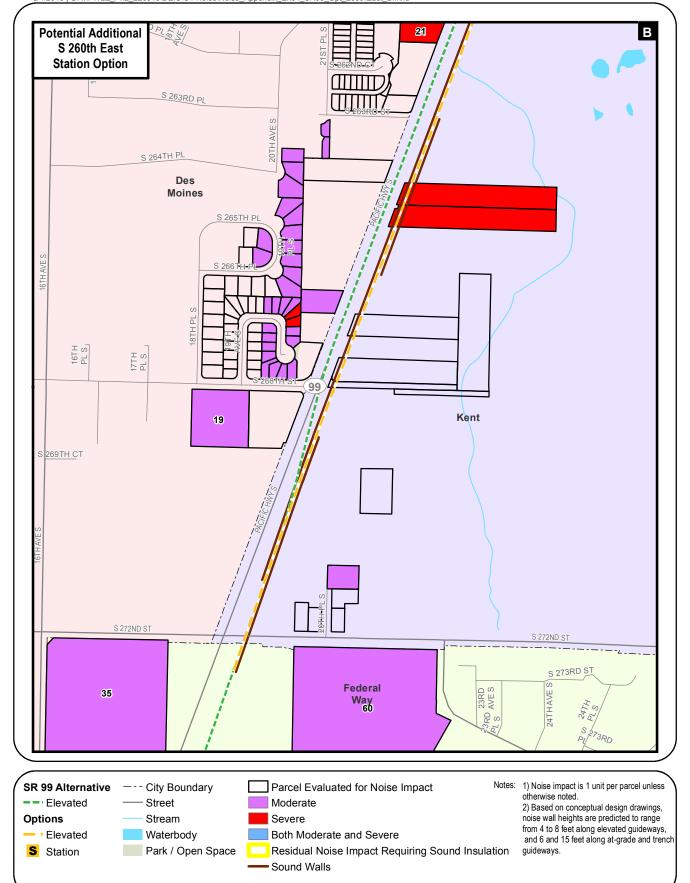
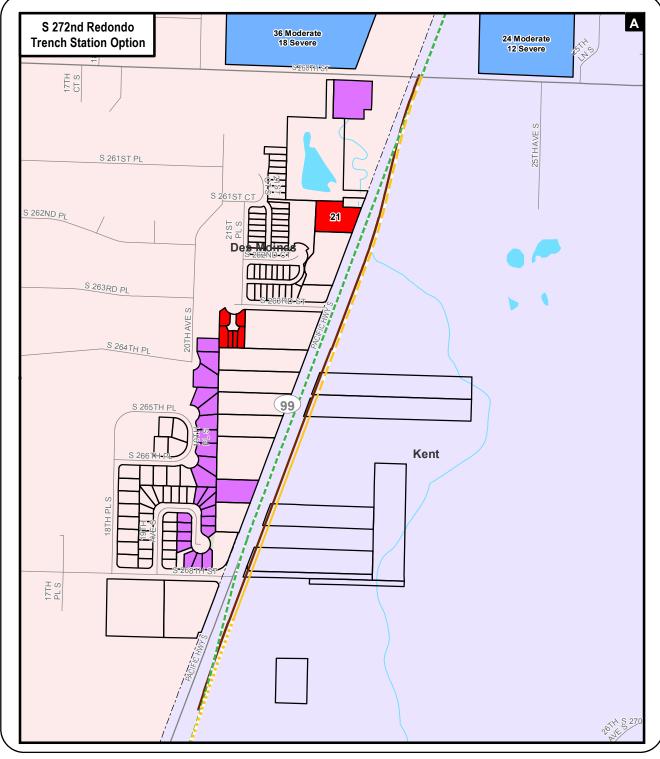
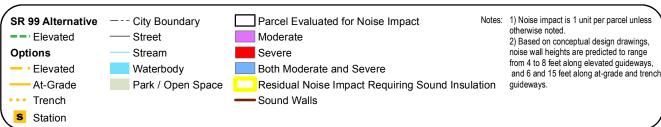


EXHIBIT C-34
Noise Impacts
SR 99 Alternative S 260th East Station Option
Federal Way Link Extension





250 500 1,000 Feet

Noise Impacts

EXHIBIT C-35

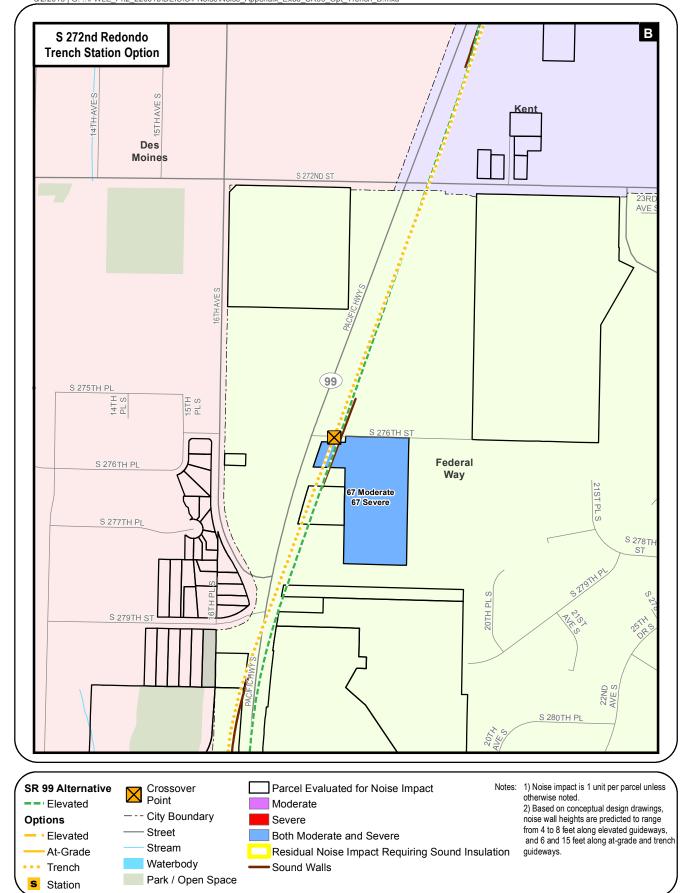
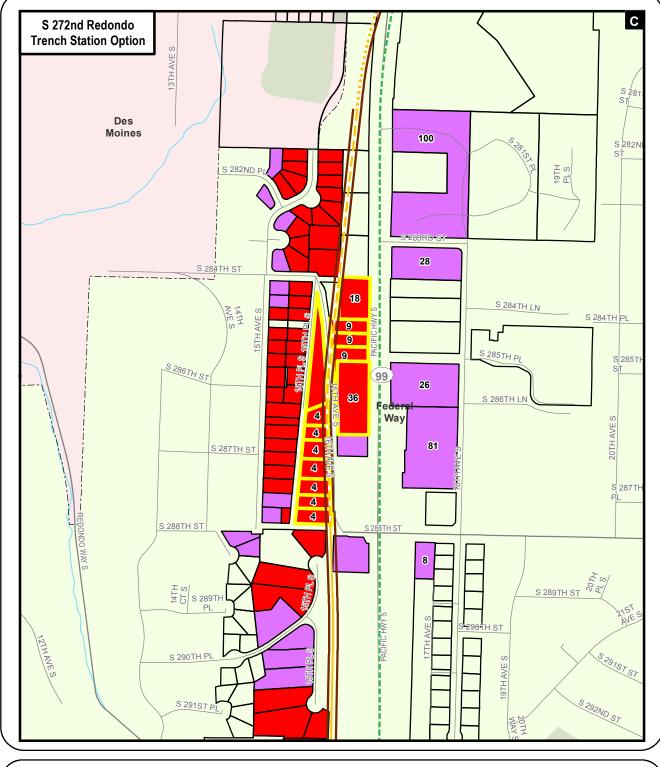


 EXHIBIT C-36 Noise Impacts ch Station Option



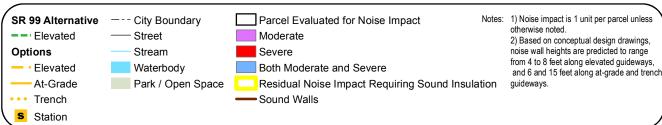
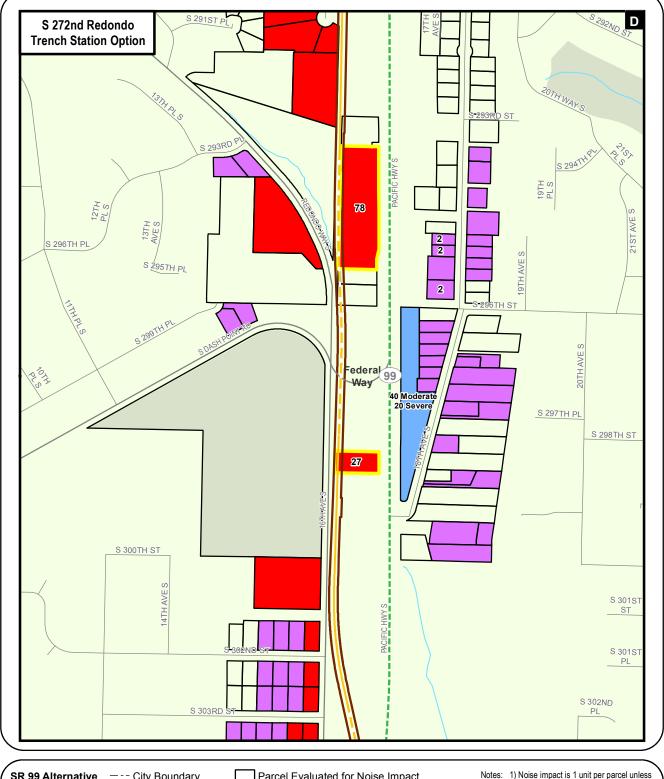
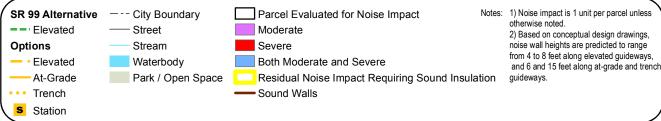


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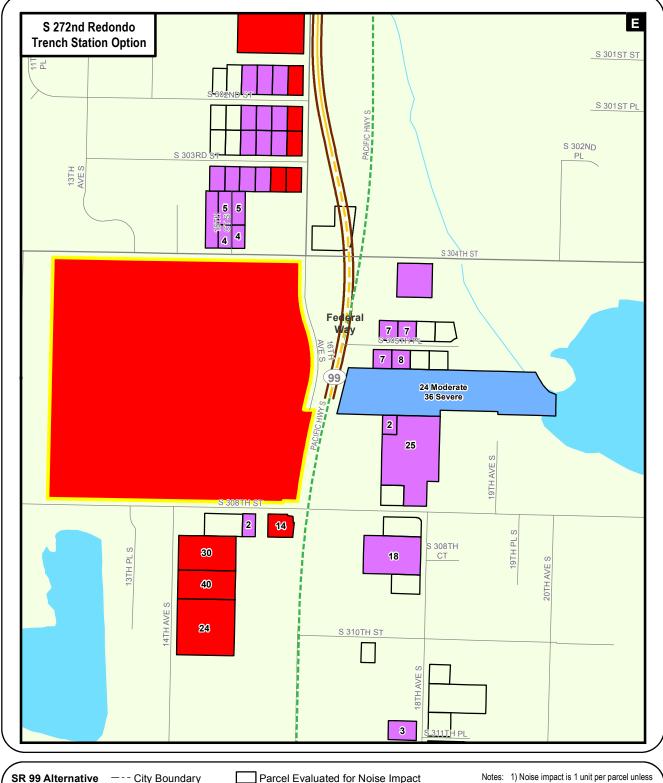


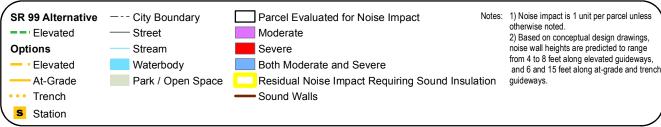


 Noise Impacts SR 99 Alternative S 272nd Redondo Trench Station Option

Federal Way Link Extension

EXHIBIT C-38





 Noise Impacts SR 99 Alternative S 272nd Redondo Trench Station Option
Federal Way Link Extension

EXHIBIT C-39

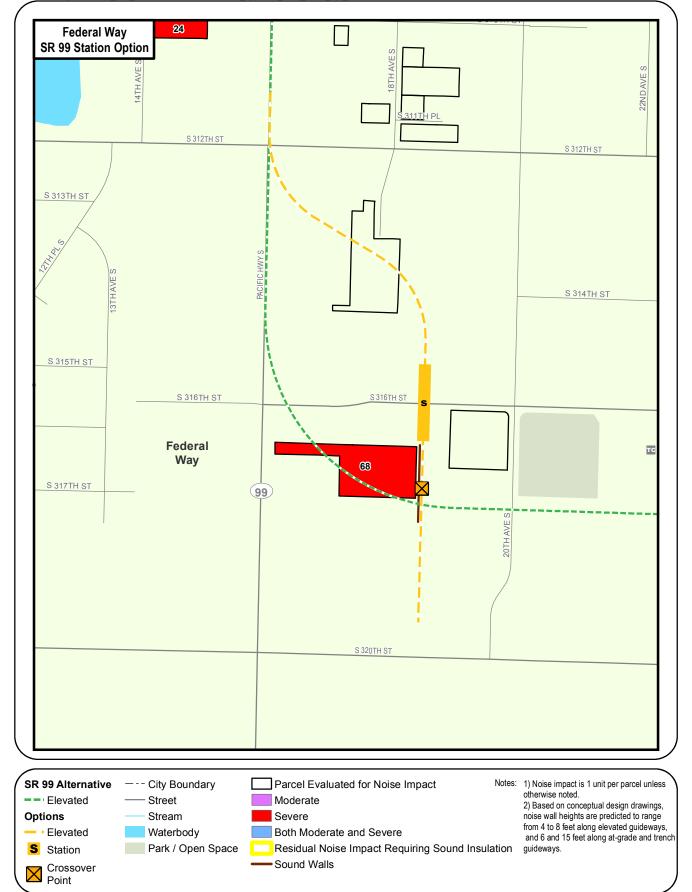
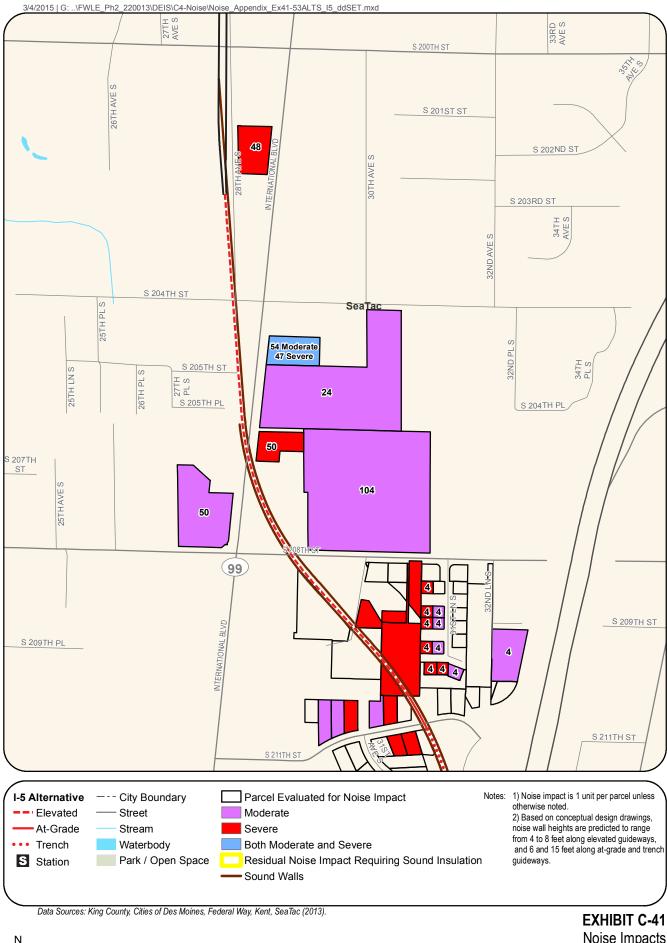
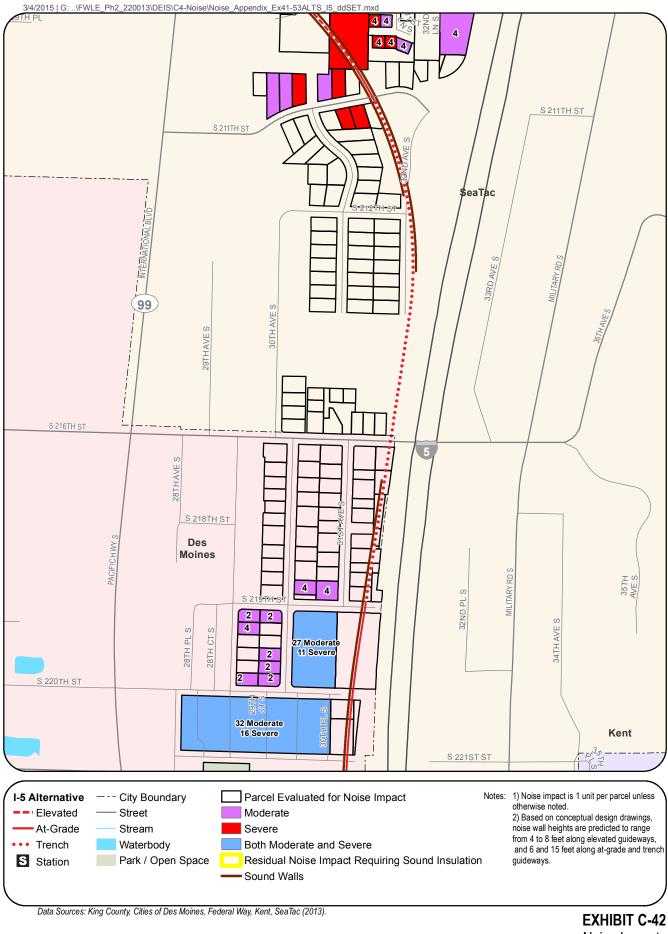
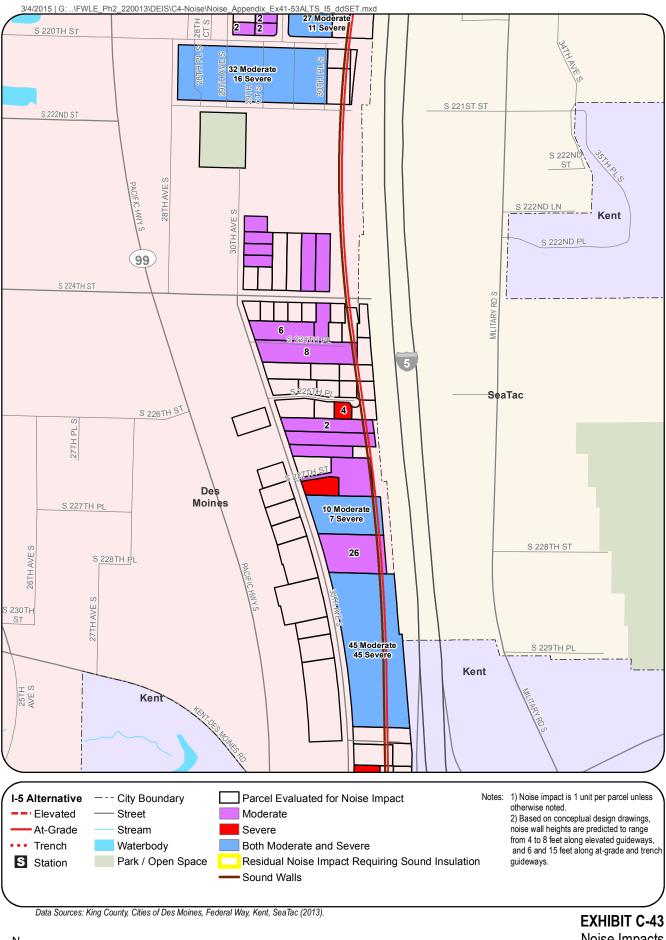
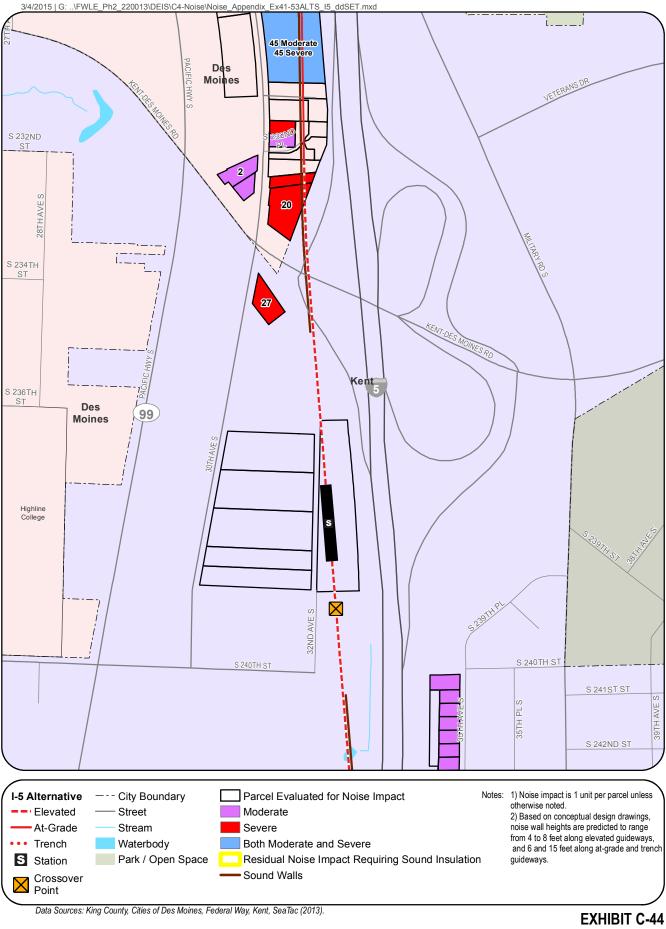


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Noise Impacts
SR 99 Alternative Federal Way SR 99 Station Option
Federal Way Link Extension

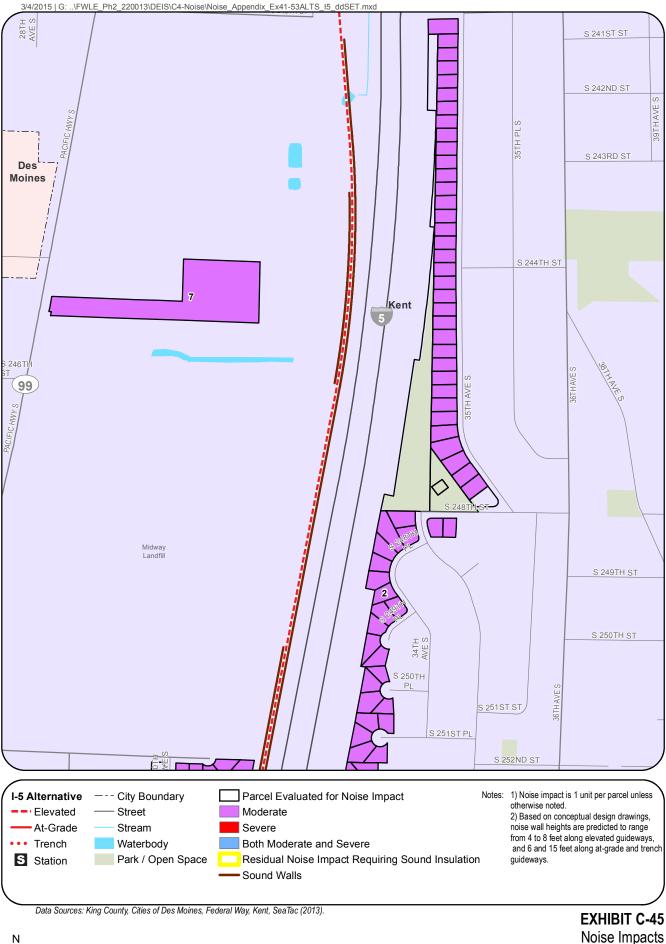




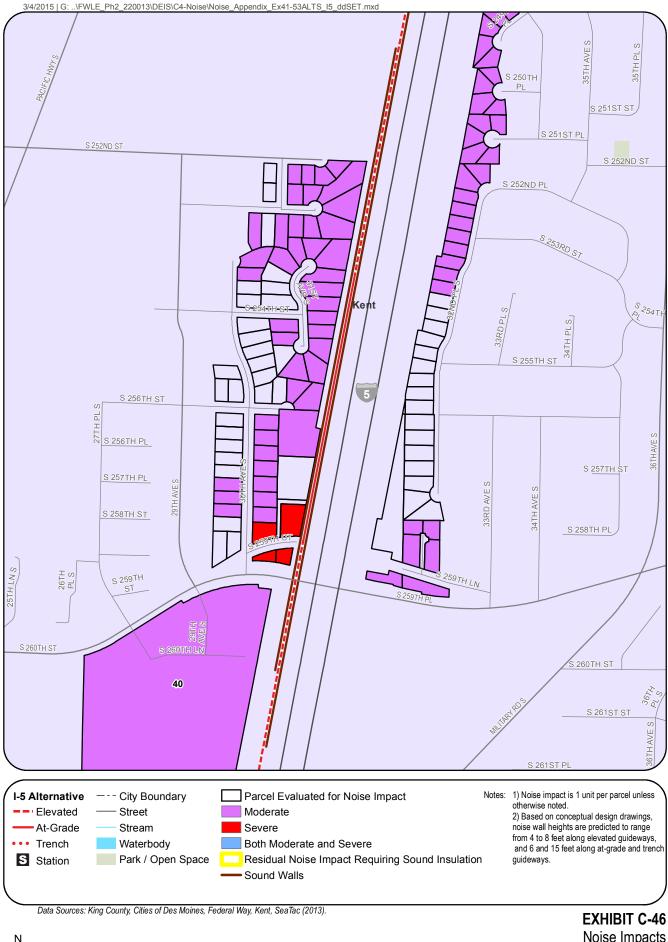


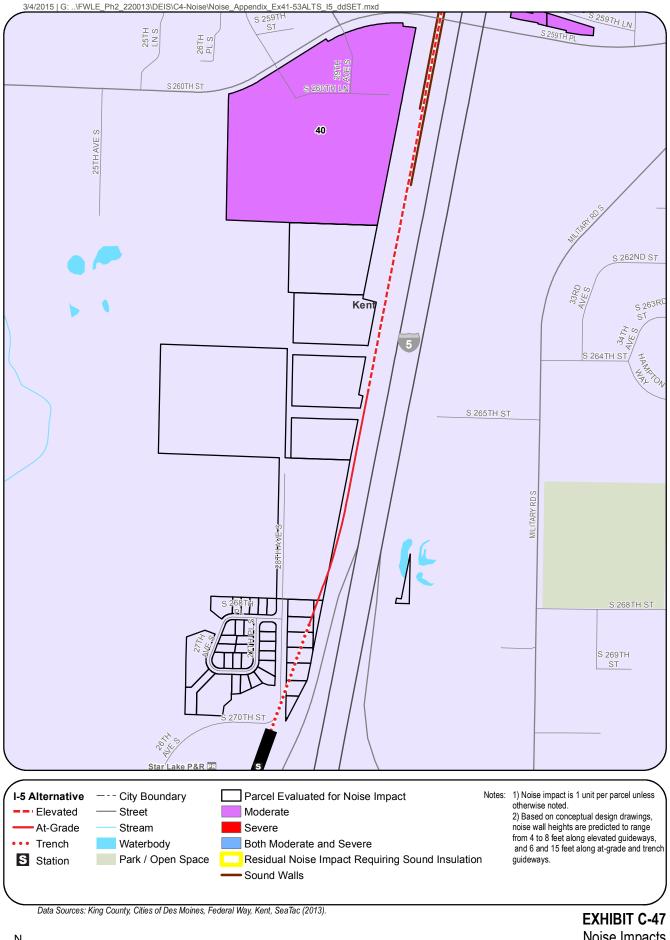


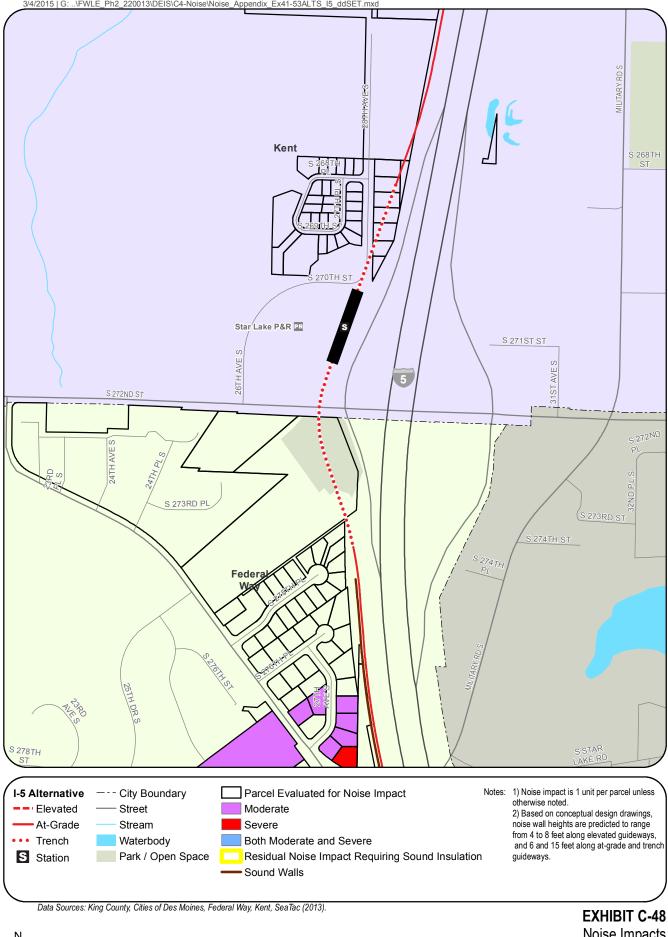
N 0 250 500 1,000 Feet

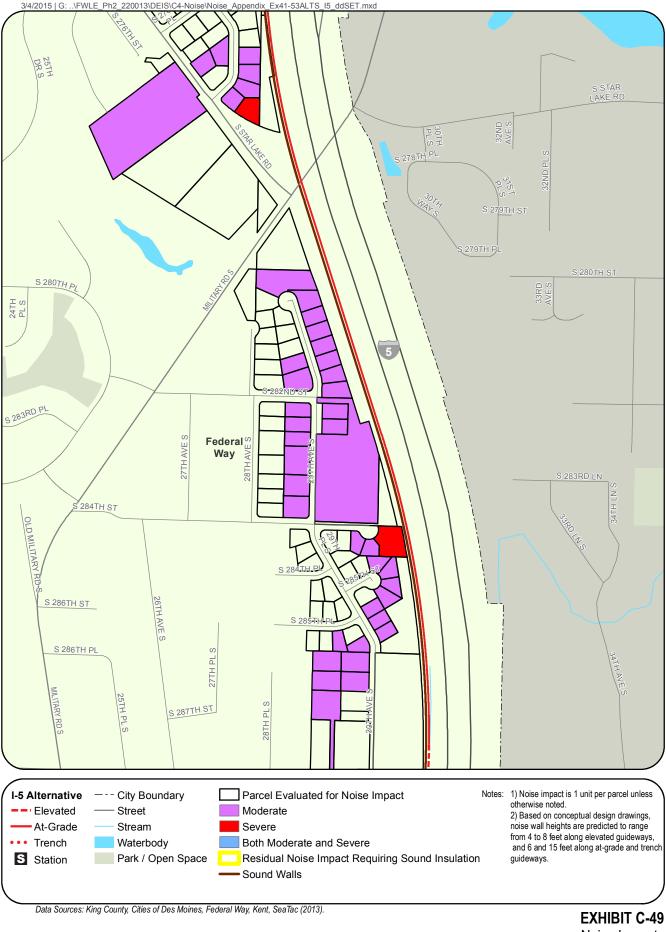


250 500 1,000 Feet





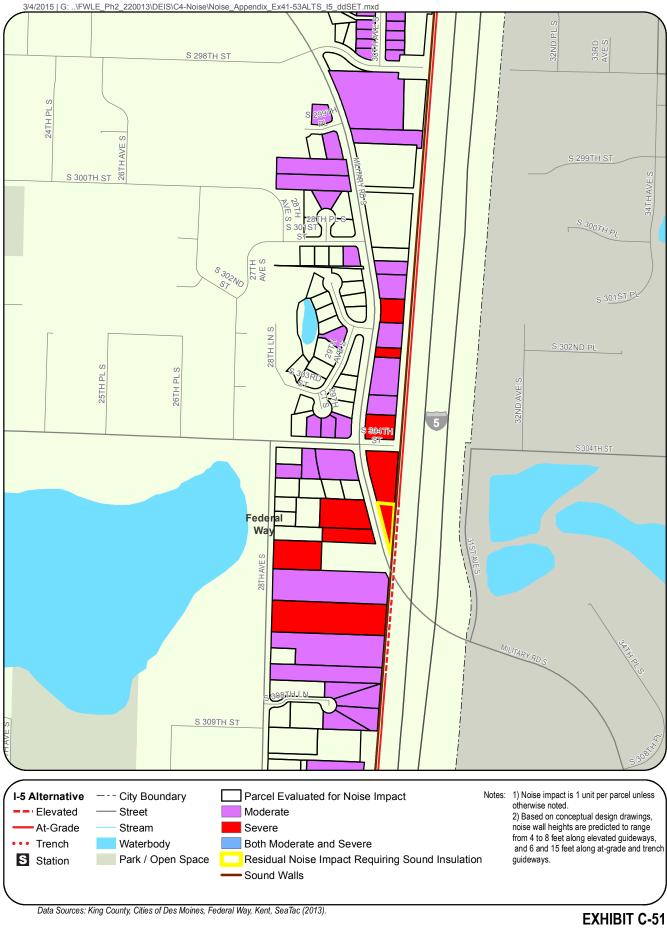






Noise Impacts I-5 Alternative

Federal Way Link Extension



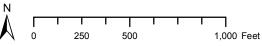
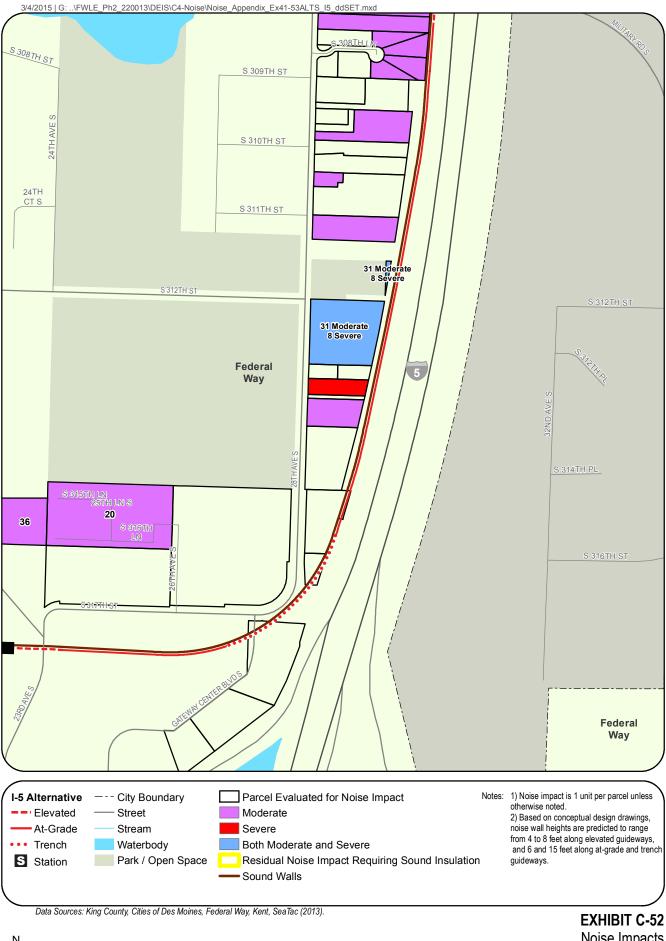
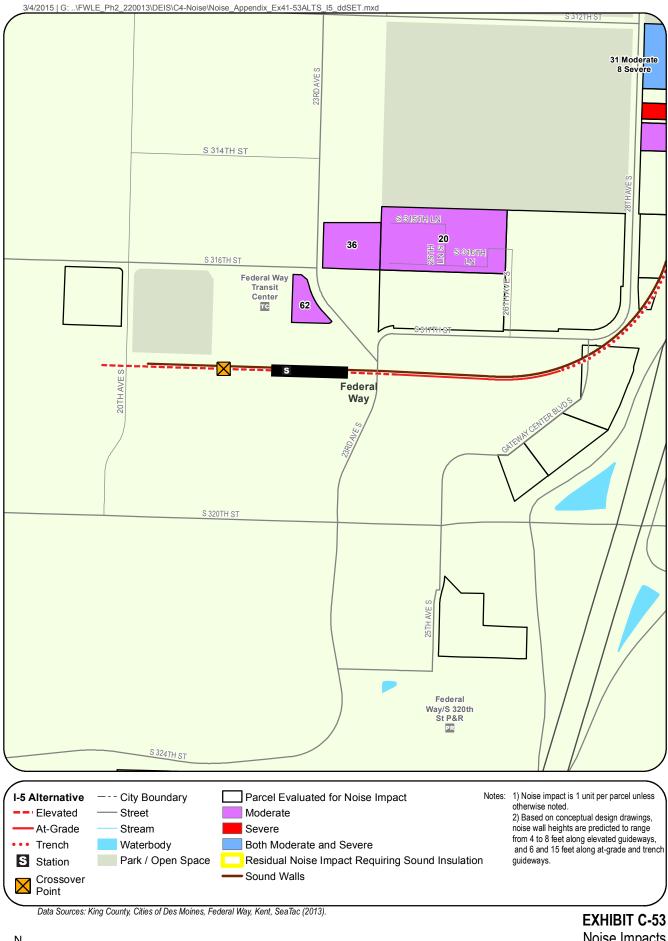


EXHIBIT C-51 Noise Impacts I-5 Alternative

Federal Way Link Extension

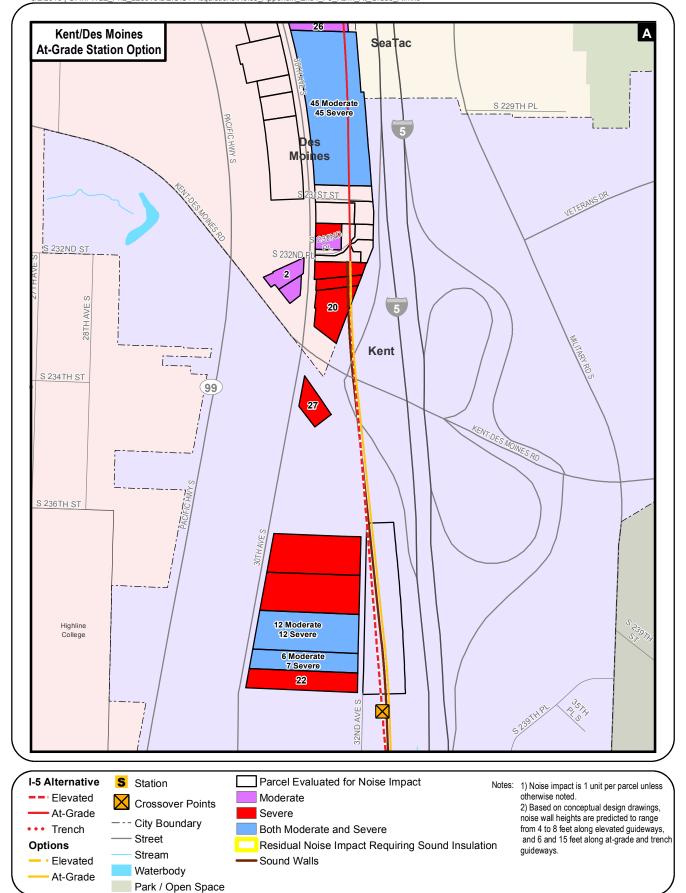




1,000 Feet

500

250



Noise Impacts

V

O

Data Sources. King County, Clies of Des Molnes, Federal Way, Kerlt, Sea fact (2015).

Noise Impacts

I-5 Alternative Kent/Des Moines At-Grade Station Option

Federal Way Link Extension

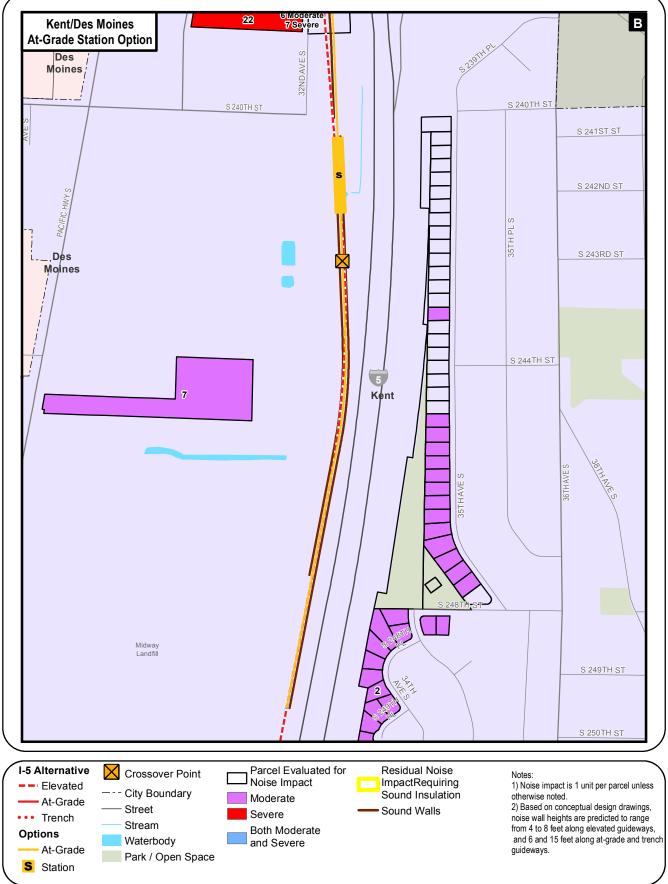
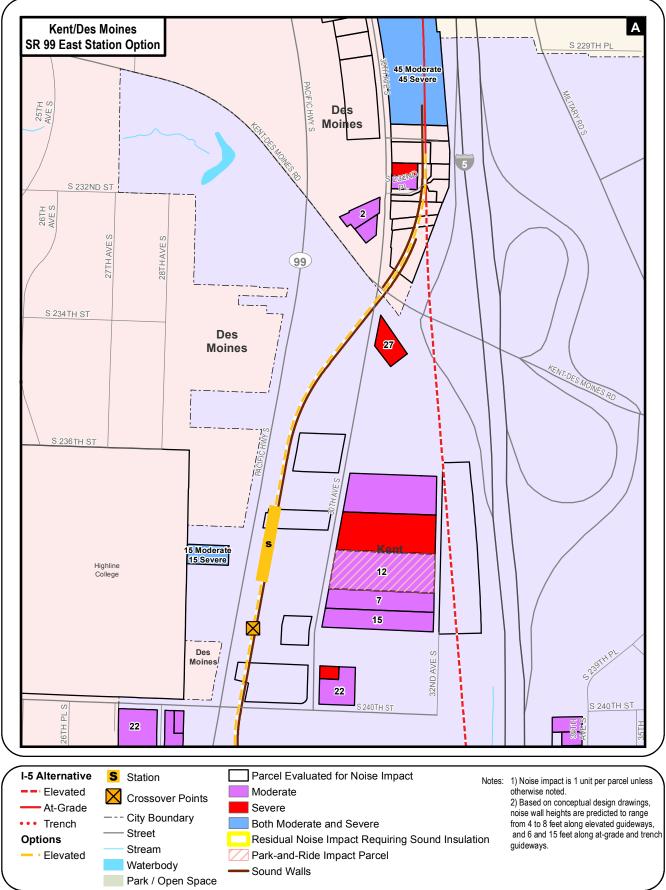


EXHIBIT C-55 Noise Impacts 1-5 Alternative Kent/Des Moines At-Grade Station Option Federal Way Link Extension



Noise Impacts

Laternative Kent/Des Moines SR 99 East Station Option

Federal Way, Kellit, Sealact (2013).

Noise Impacts

Laternative Kent/Des Moines SR 99 East Station Option

Federal Way Link Extension

500

1,000 Feet

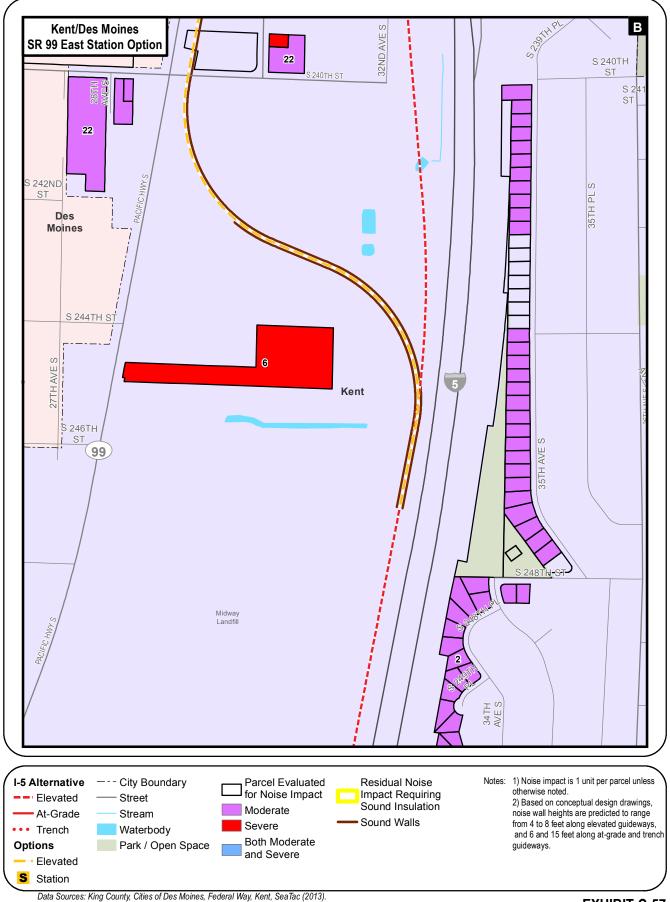
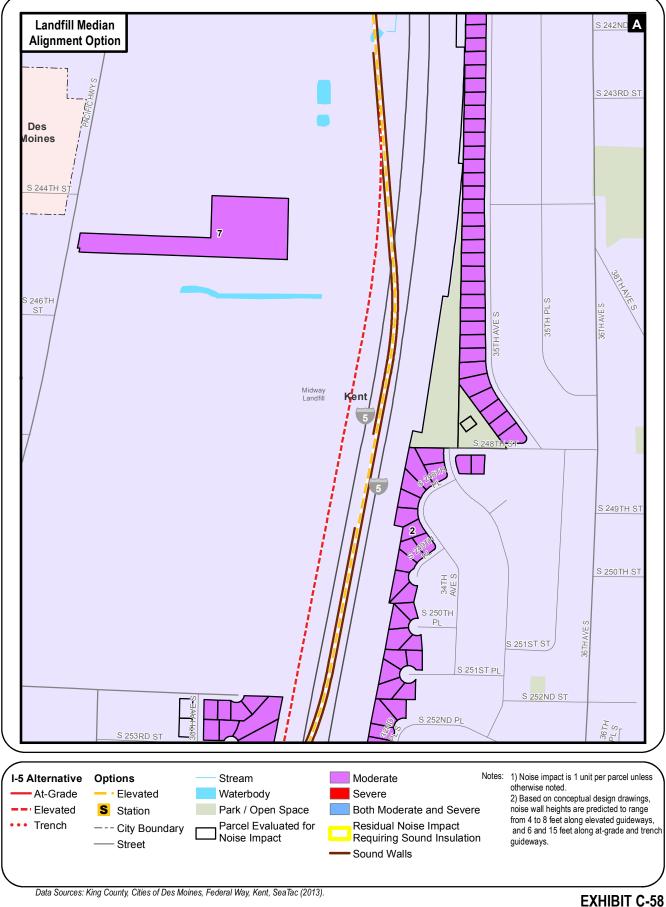


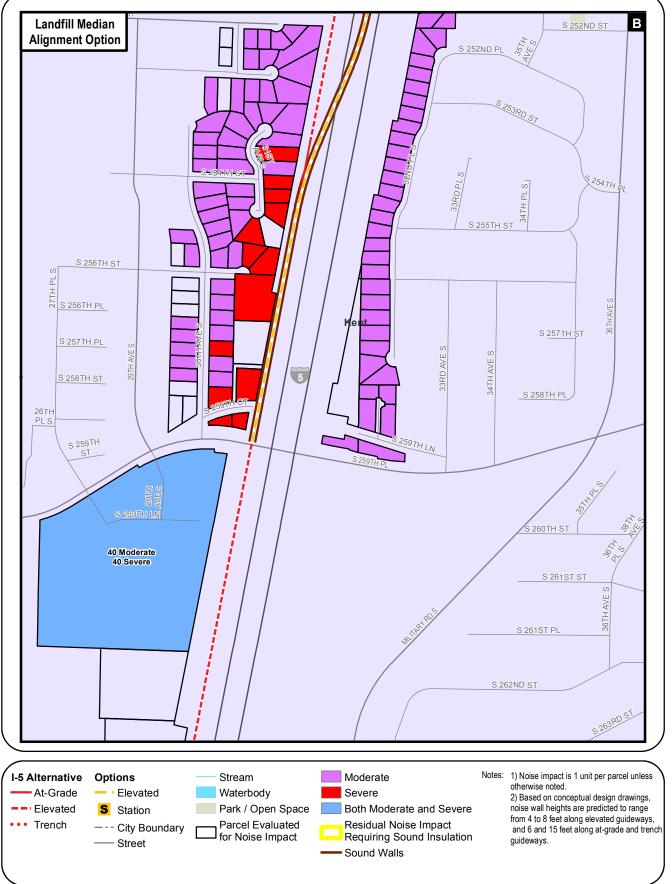
EXHIBIT C-57
Noise Impacts
I-5 Alternative Kent/Des Moines SR 99 East Station Option
Federal Way Link Extension



Noise Impacts

I-5 Alternative Landfill Median Alignment Option

Tederal Way Link Extension



1,000 Feet

250

500

Noise Impacts
I-5 Alternative Landfill Median Alignment Option
Federal Way Link Extension

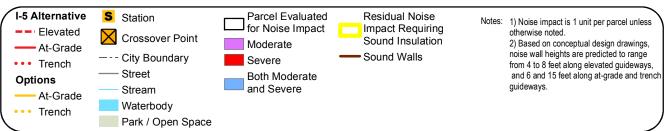


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Noise Impacts
I-5 Alternative Federal Way I-5 Station Option
Federal Way Link Extension

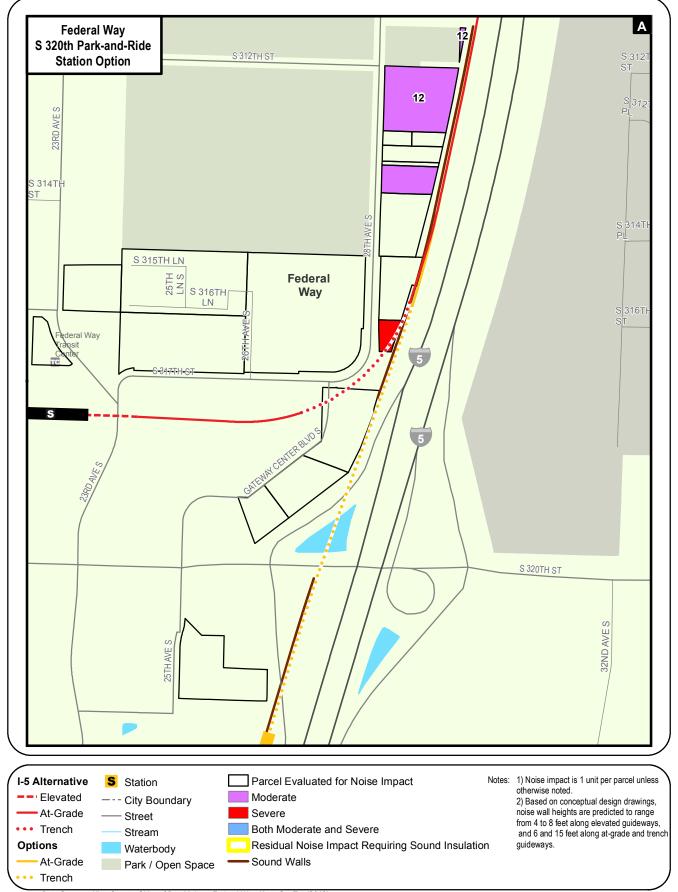
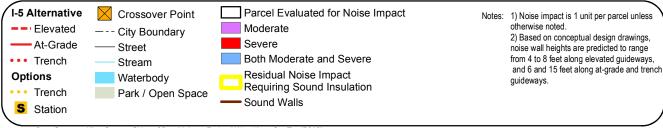
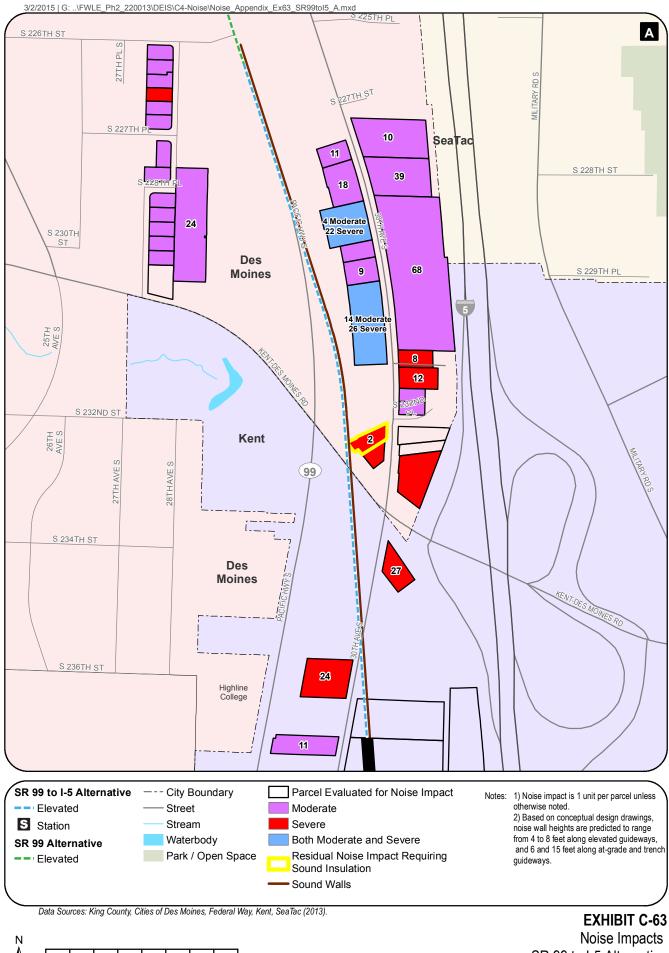


EXHIBIT C-61 Noise Impacts I-5 Alternative Federal Way S 320th Park-and-Ride Station Option Federal Way Link Extension

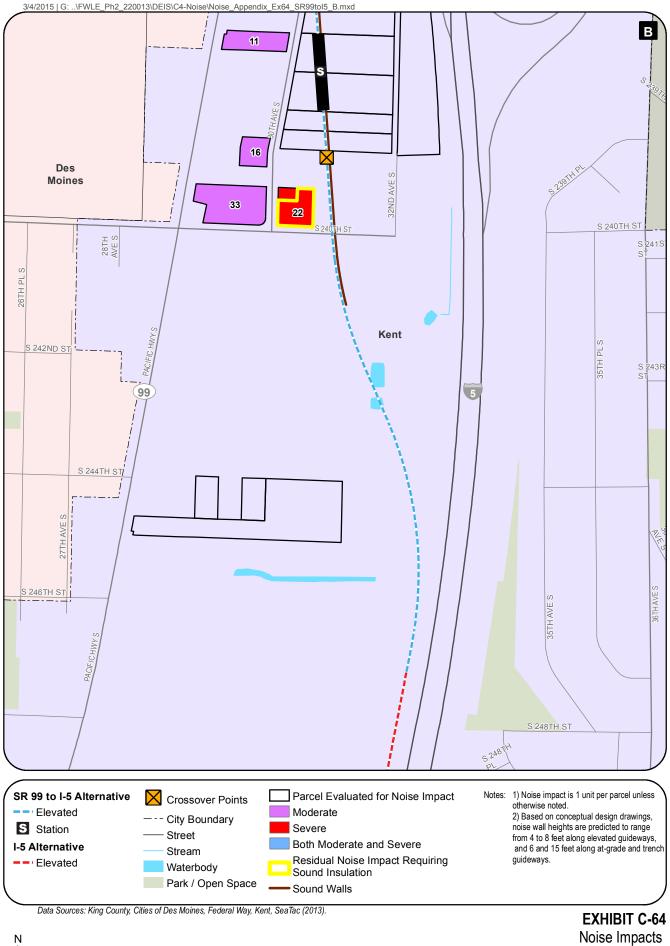


Noise Impacts
I-5 Alternative Federal Way S 320th Park-and-Ride Station Option

Federal Way Link Extension



250 500 1,000 Feet SR 99 to I-5 Alternative Federal Way Link Extension



0 250 500 1,000 Feet

Noise Impacts
SR 99 to I-5 Alternative
Federal Way Link Extension

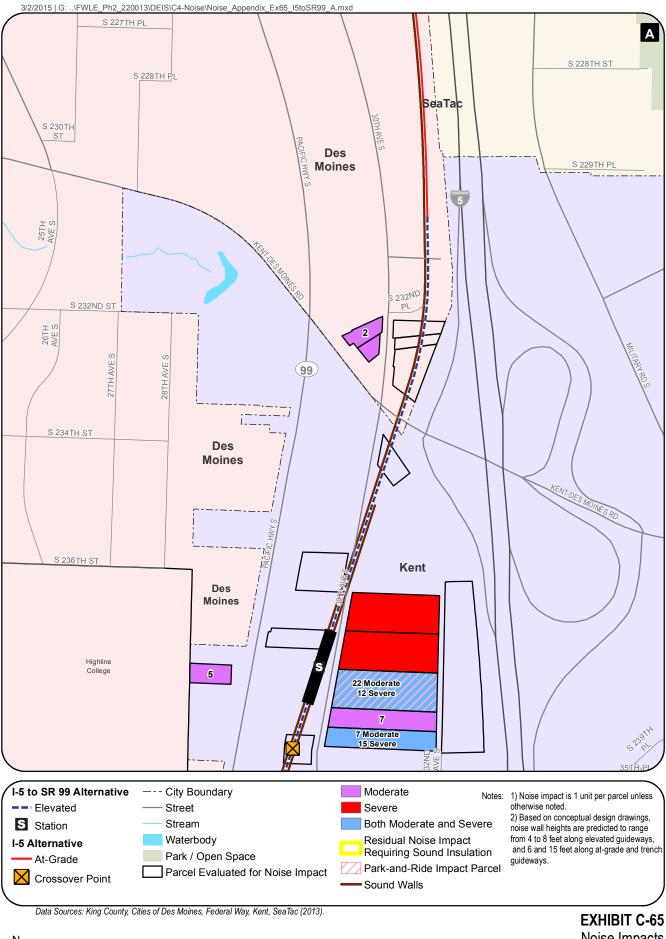




EXHIBIT C-65 Noise Impacts I-5 to SR 99 Alternative Federal Way Link Extension

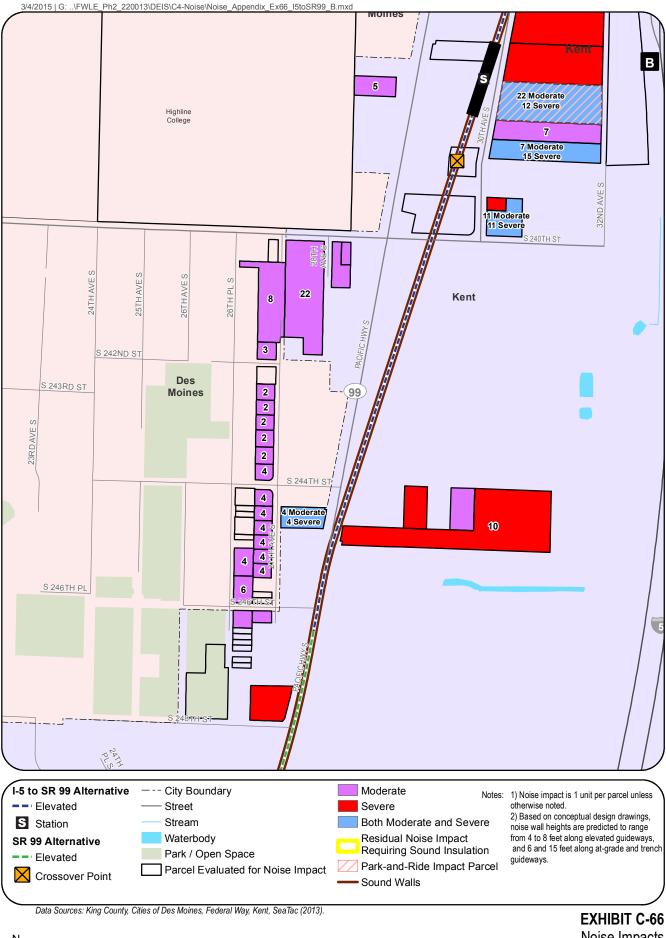
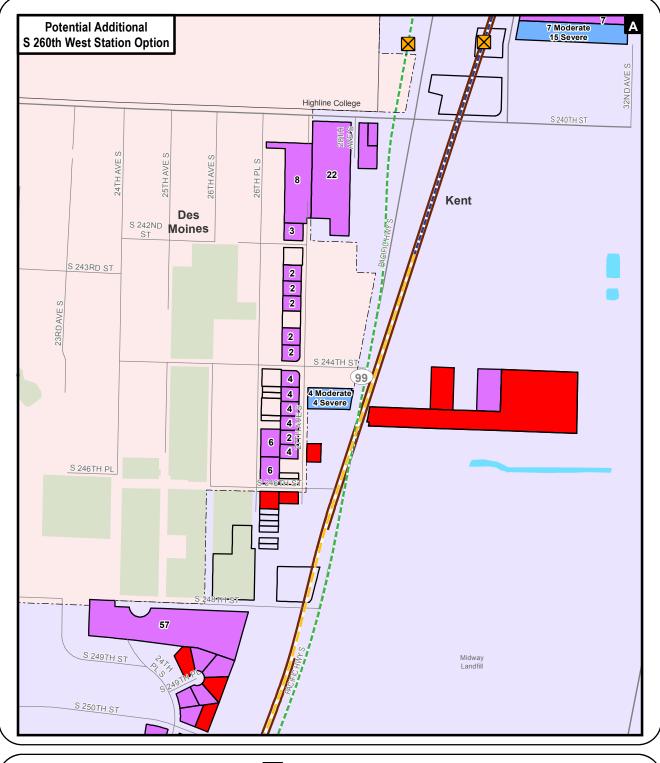
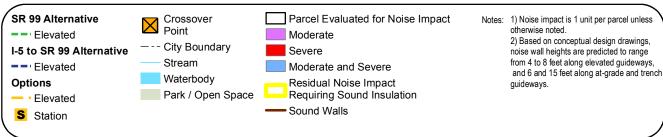


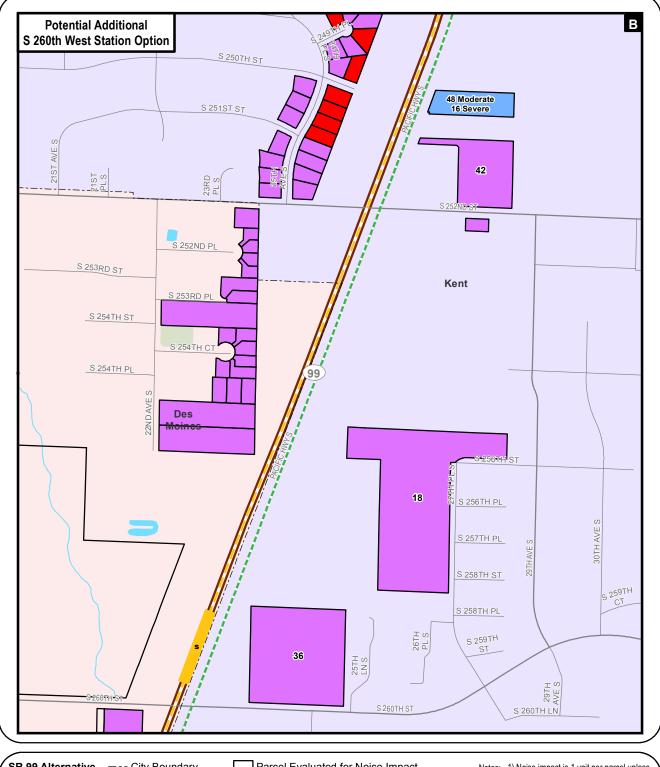
EXHIBIT C-66
Noise Impacts
I-5 to SR 99 Alternative
Federal Way Link Extension

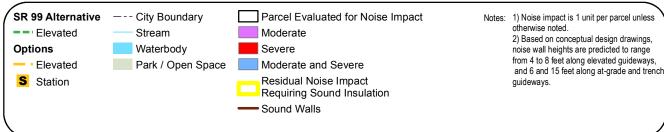




Data Sources: King County, Cities of Des Moines, Federal Way, Kent, SeaTac (2013).

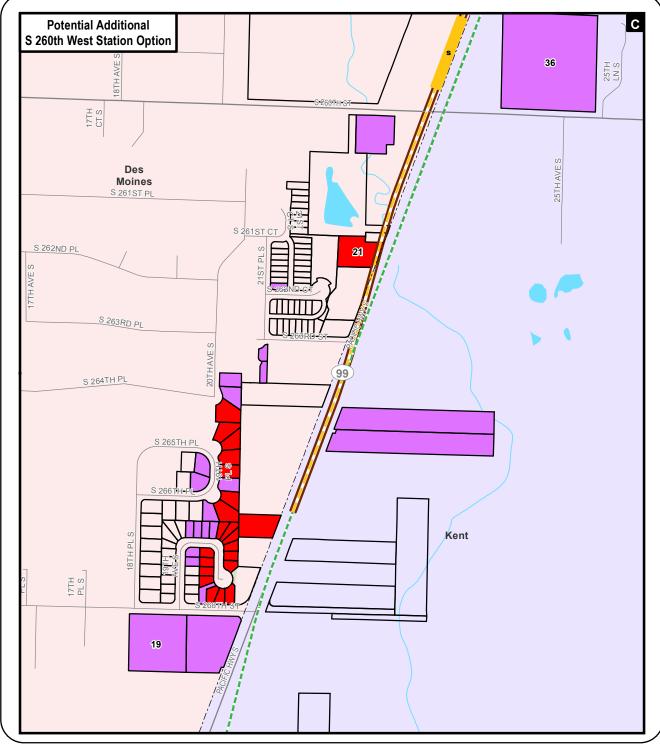
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Noise Impacts
I-5 to SR 99 Alternative S 260th West Station Option
Federal Way Link Extension

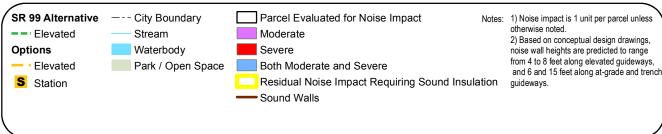




Data Sources: King County, Cities of Des Moines, Federal Way, Kent, SeaTac (2013).

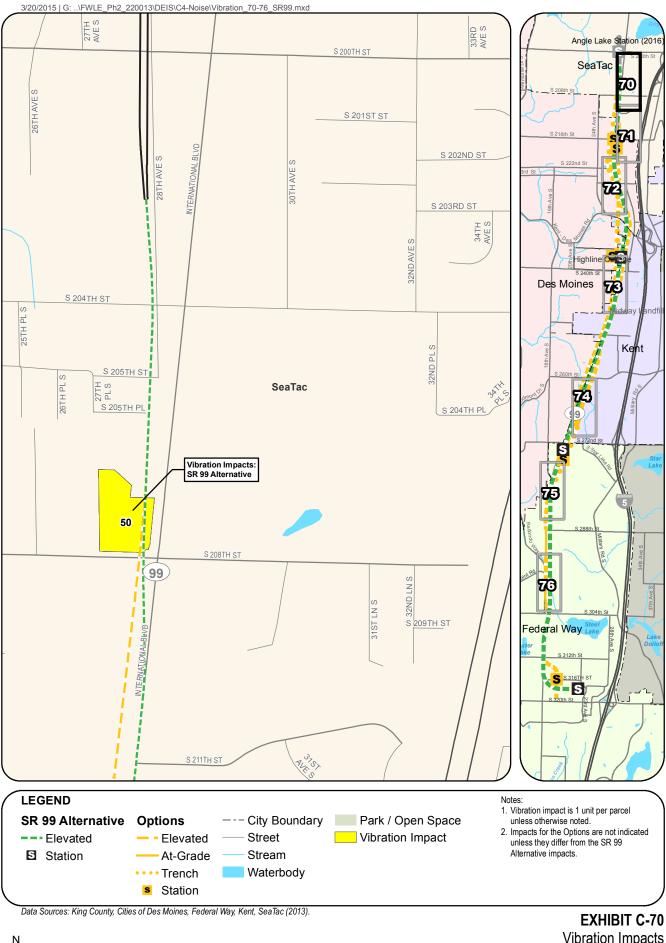
 EXHIBIT C-68
Noise Impacts
I-5 to SR 99 Alternative S 260th West Station Option
Federal Way Link Extension

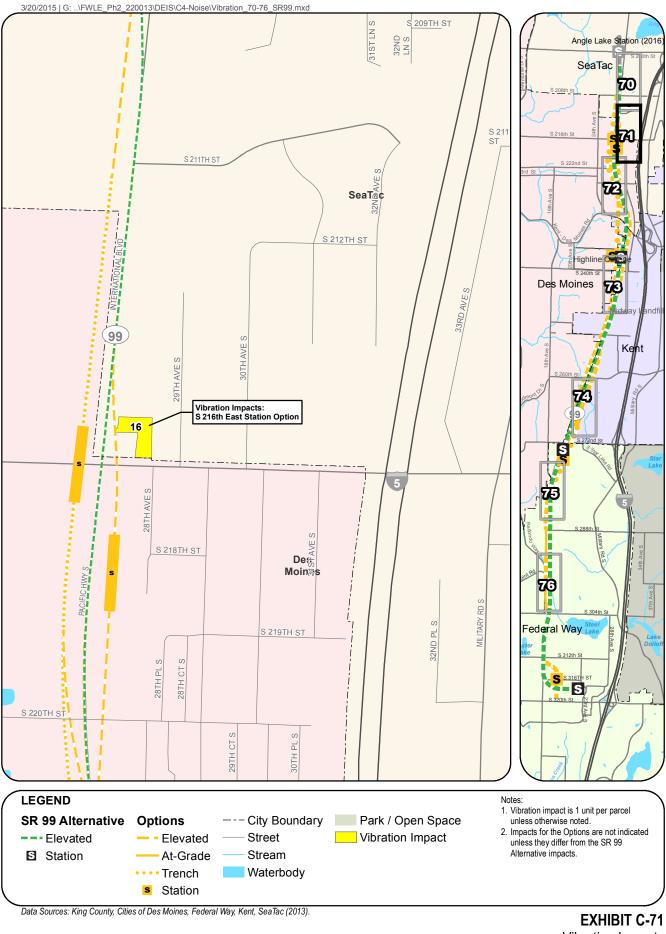


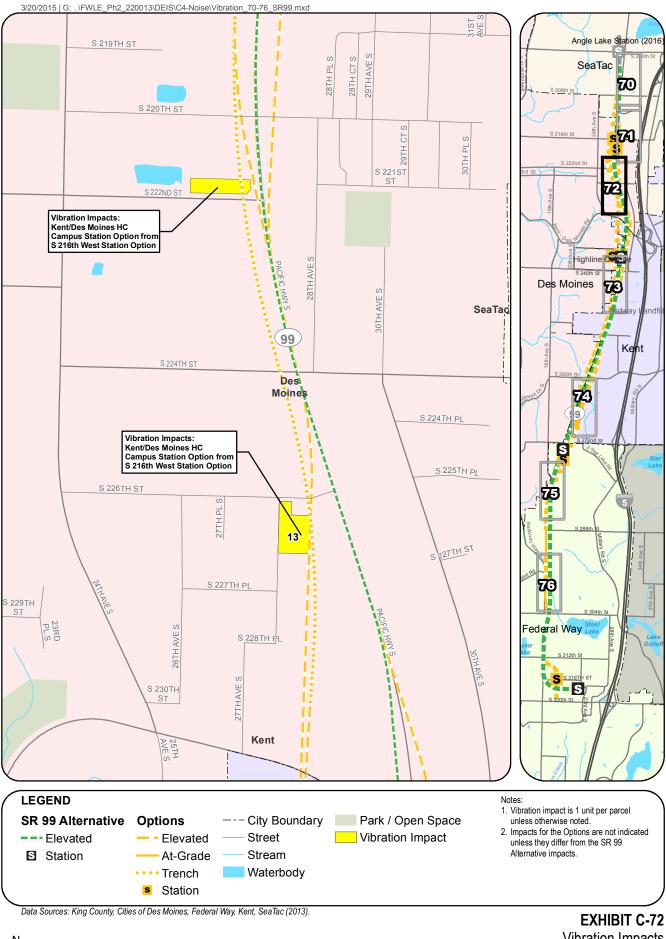


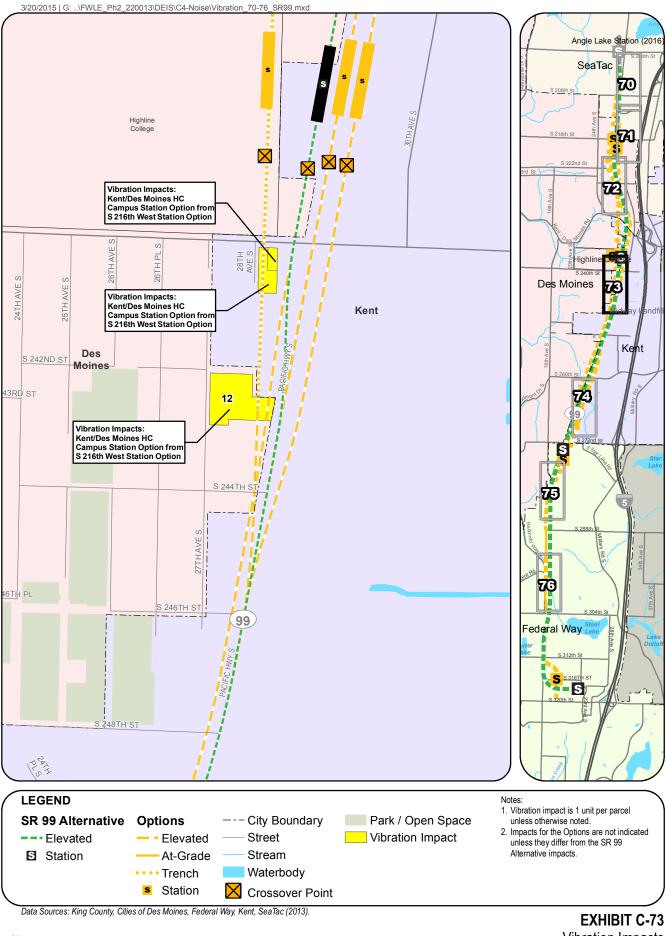
Data Sources: King County, Cities of Des Moines, Federal Way, Kent, SeaTac (2013).

EXHIBIT C-69
Noise Impacts
I-5 to SR 99 Alternative S 260th West Station Option
Federal Way Link Extension



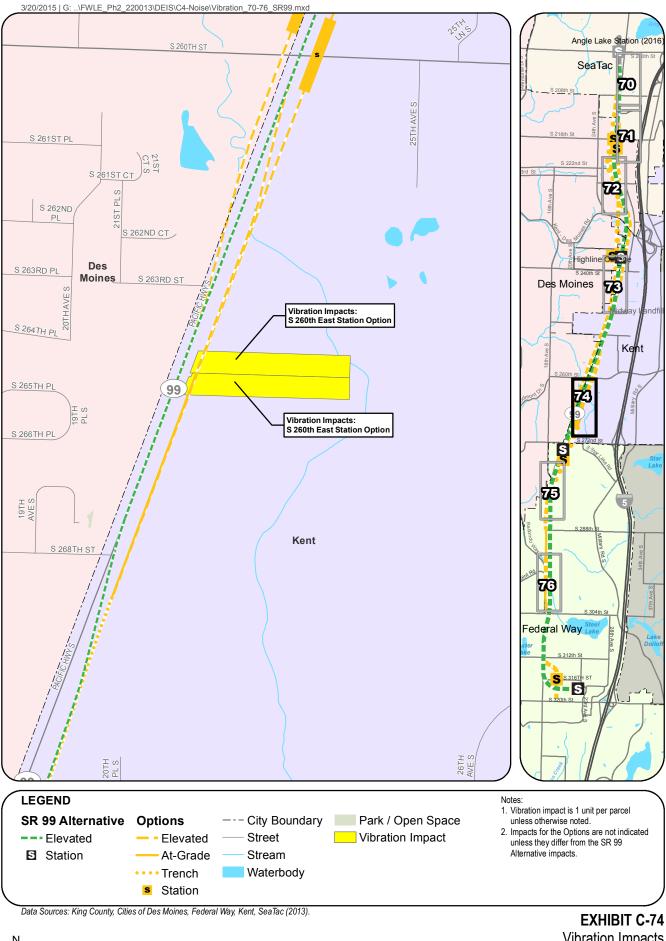


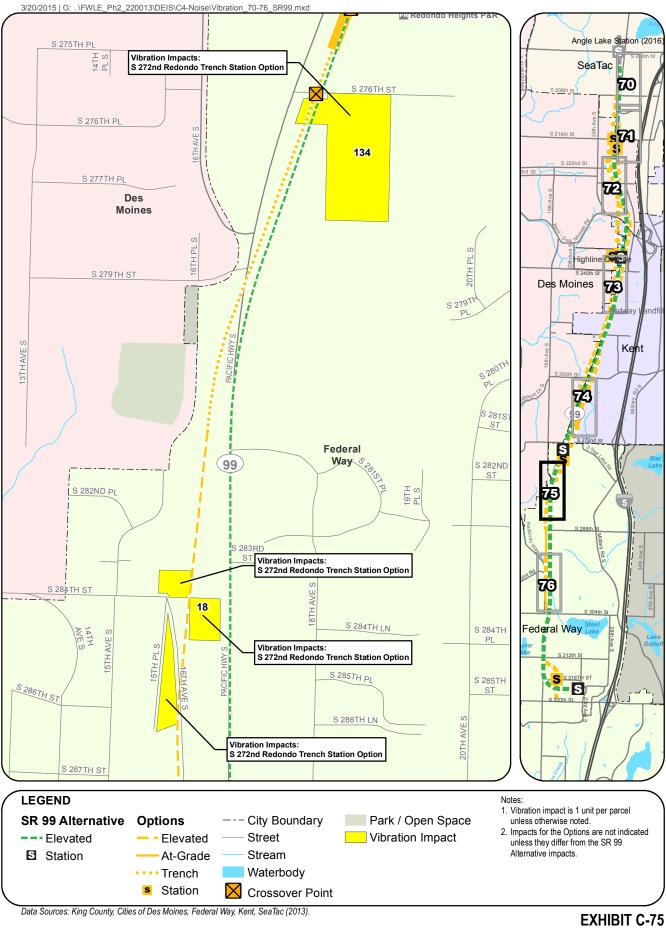




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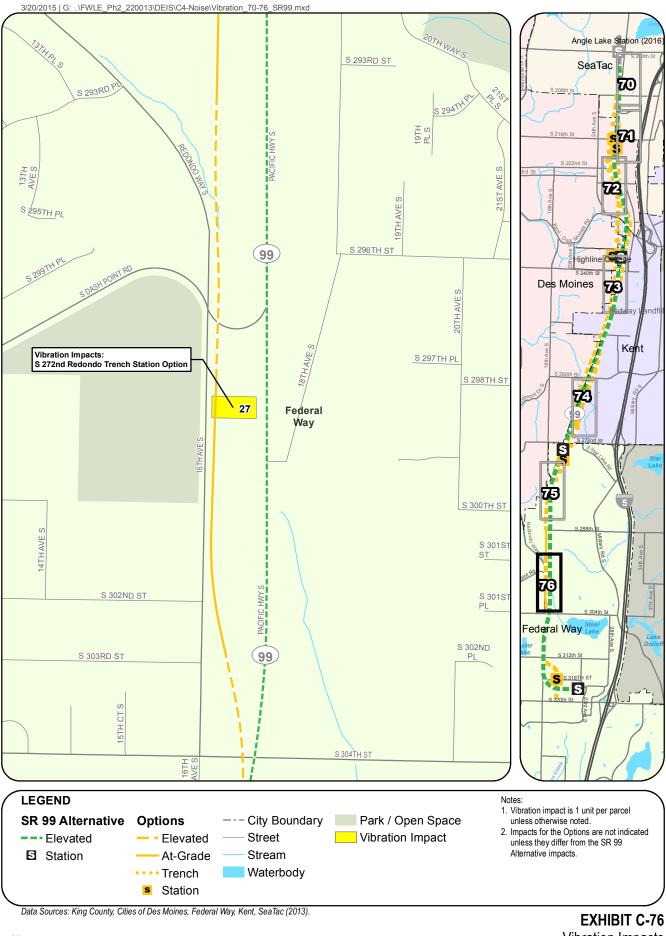
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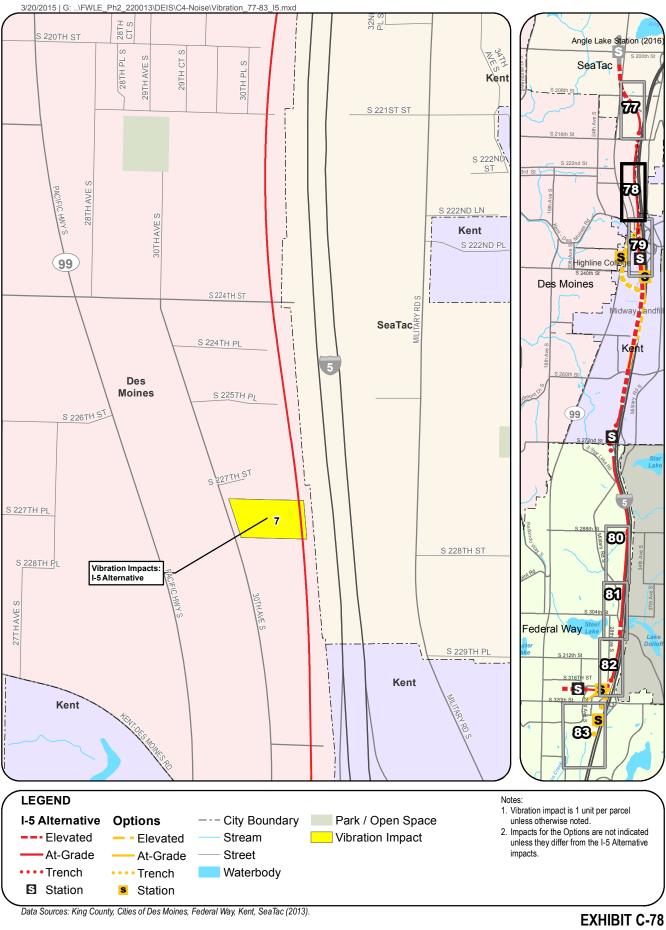
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1,000 Feet

250

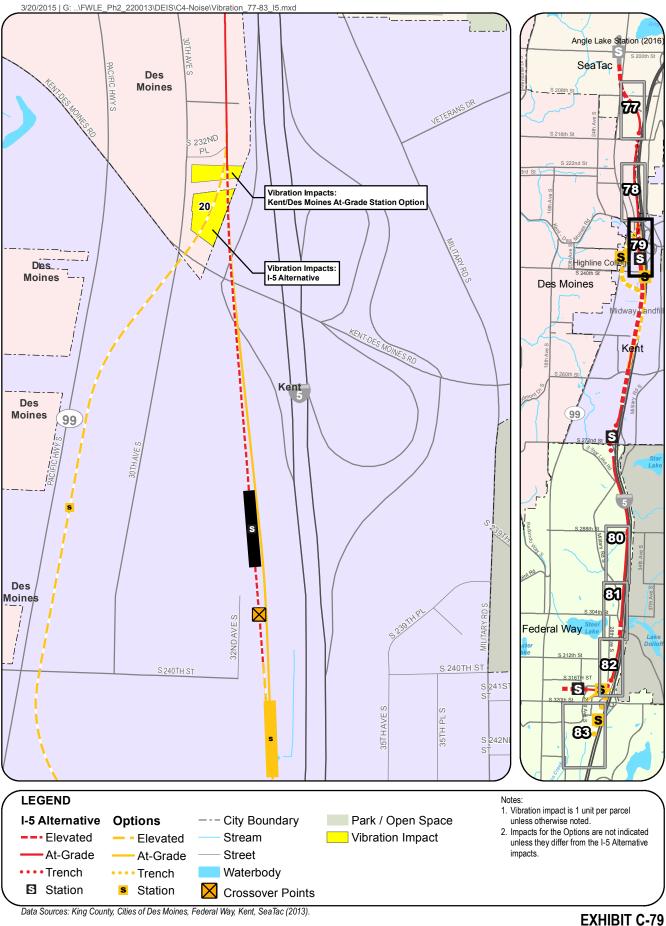


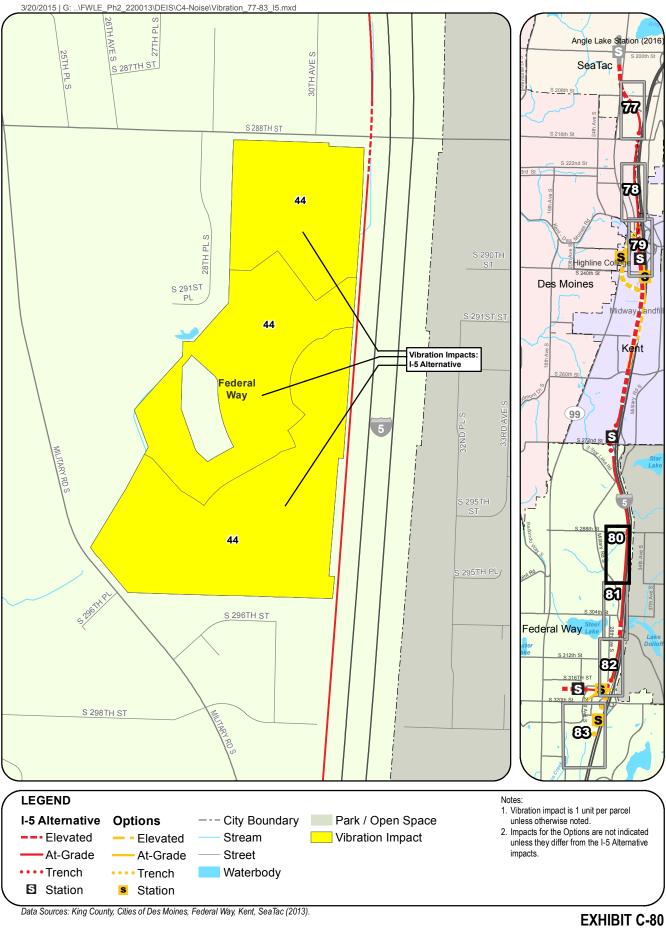
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1,000 Feet

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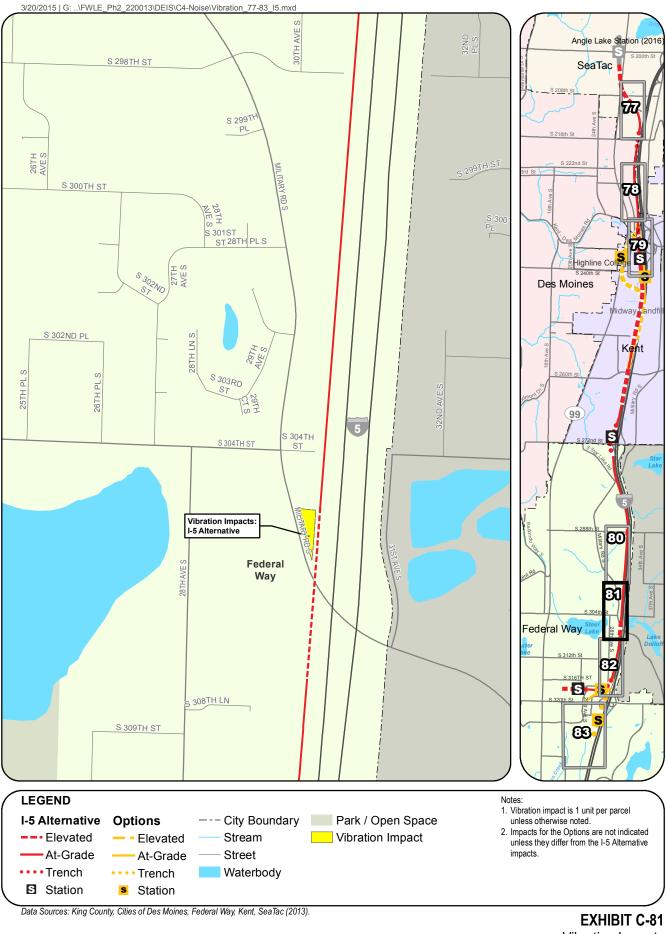
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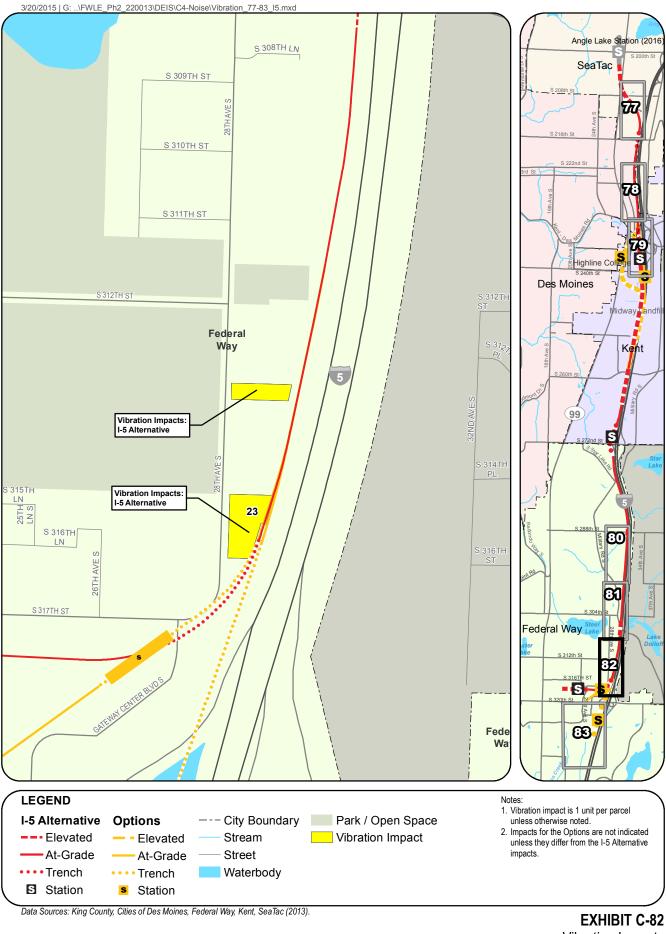
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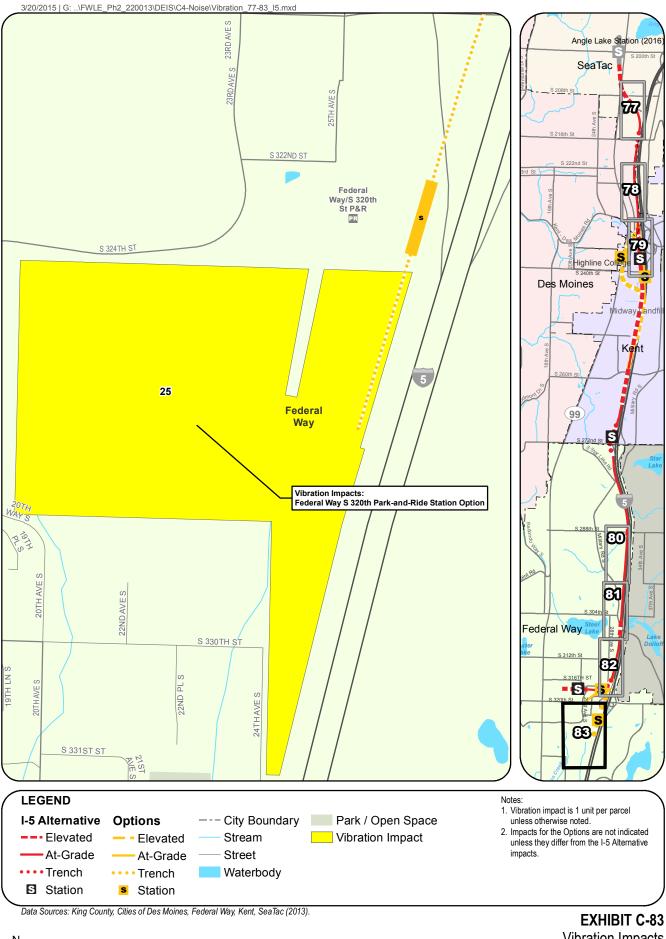
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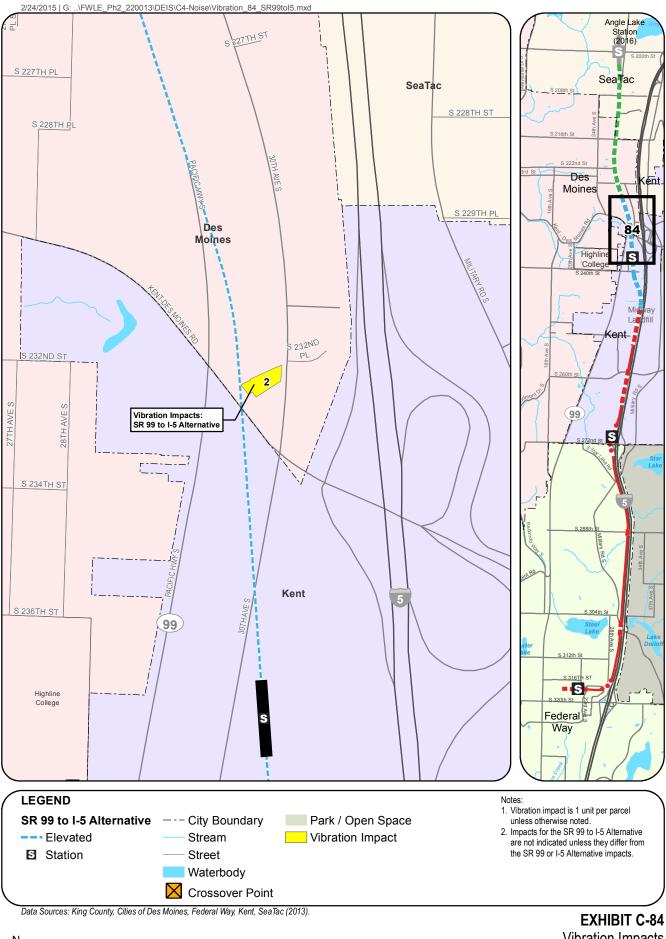
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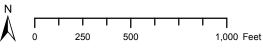




500

1,000 Feet





Vibration Impacts SR 99 to I-5 Alternative Federal Way Link Extension

