Energize Eastside

North Sub-Area Workshop #2

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April 16, 2014

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Agenda

- Project overview
- Recap of public process
- What was heard in workshop #1
- Data presentation
- Clarifying questions on data presented
- Individual evaluation of segments
- Group evaluation of segments
- Message to the Sub-Area Committee

Energize Eastside overview

- Growth is straining our region's existing transmission system
- Conservation alone is not enough
- We need to act now
- We will work with the community to identify solutions

Energize Eastside will build new electric transmission infrastructure to ensure dependable power

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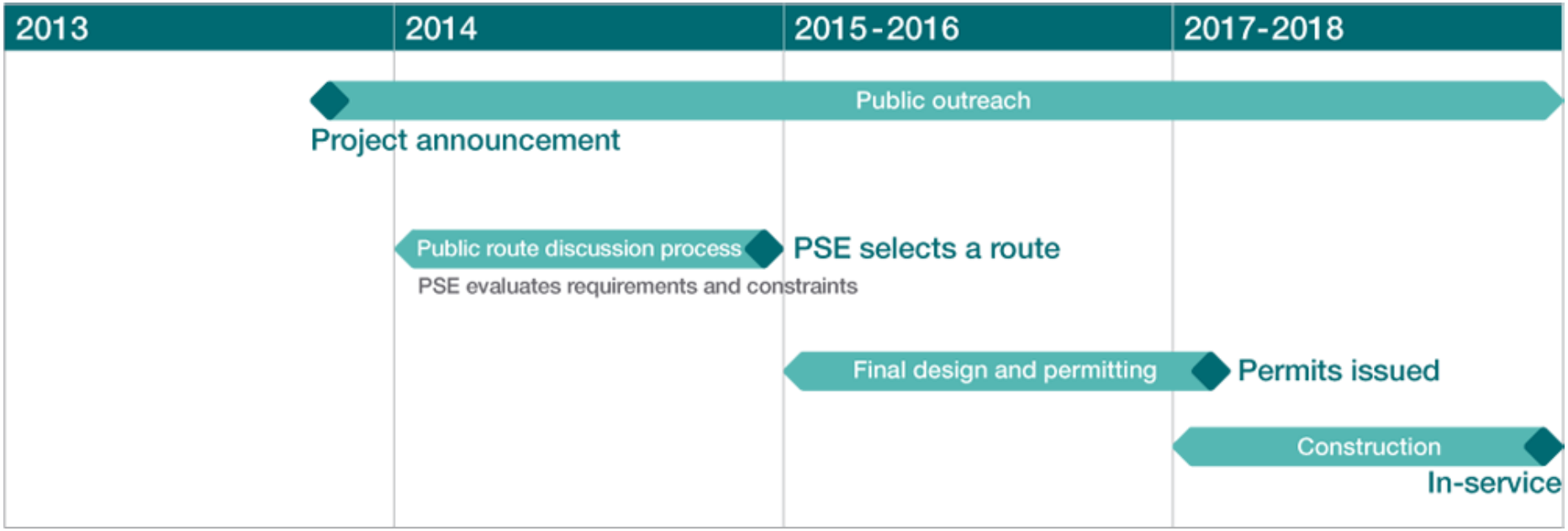
Project schedule



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Opportunities for public involvement

Community Advisory Group | Meetings | Other Opportunities

Workshop #1: Examine route segments and identify evaluation factors

Workshop #2: Score each segment

Sub-Area Committee Meeting: Committee reviews outcomes and develops findings for advisory group

WINTER			FALL
1 Education	**2** Ide or		**4** Recommended route
Learn about electric system and project need (COMPLETED)	Develop sub-area segment input for full Community Advisory Group discussion	options	ommunity Meeting #3 Feedback on Community Advisory Group recommended route
Community Meeting #1 Feedback on project need, potential segments and route selection process (COMPLETED)	• Discu conc • D	ommunity ity values cess ns to d route	• Discuss community concerns • Consider public input and validate recommended route and provide route recommendation to PSE for consideration
• Discuss community concerns • Learn about the factors involved in developing the route segments (COMPLETED) • Bus tour of project area			

Neighborhood and community group briefings, fairs and festivals, public kiosks, online surveys

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Sub-area meeting series

- Workshop #1 – Public examines route segments and identify factors to evaluate segments
- **Workshop #2 – Public scores each segment based on factors discussed in workshop #1**
- Sub-Area Committee Meeting – Sub-Area Committee members review the public's work from workshop #1 and #2 and develop findings for Community Advisory Group, while the public observes.

Workshop #2 purpose and goals

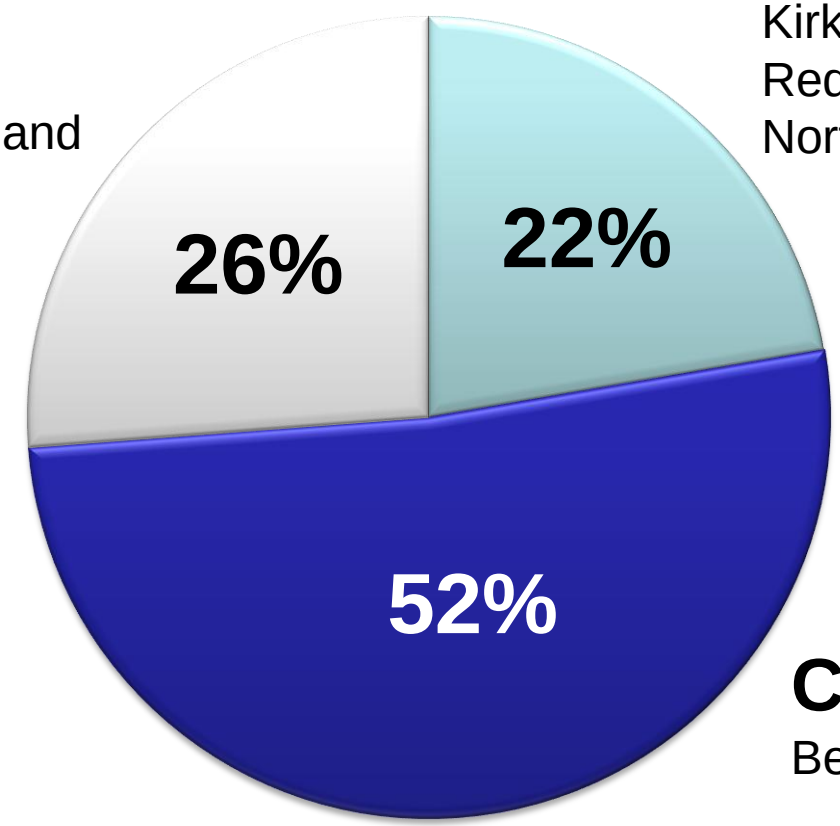
- Review information gathered at workshop #1
- Review data provided by PSE
- Use evaluation factors developed from workshop #1 to score the route segments

How we received feedback

- North Sub-Area Workshop #1
- Online survey

Survey results

What sub-area are you?



North
Kirkland, Redmond and North Bellevue

South
Newcastle and Renton

Central
Bellevue

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Key issues results

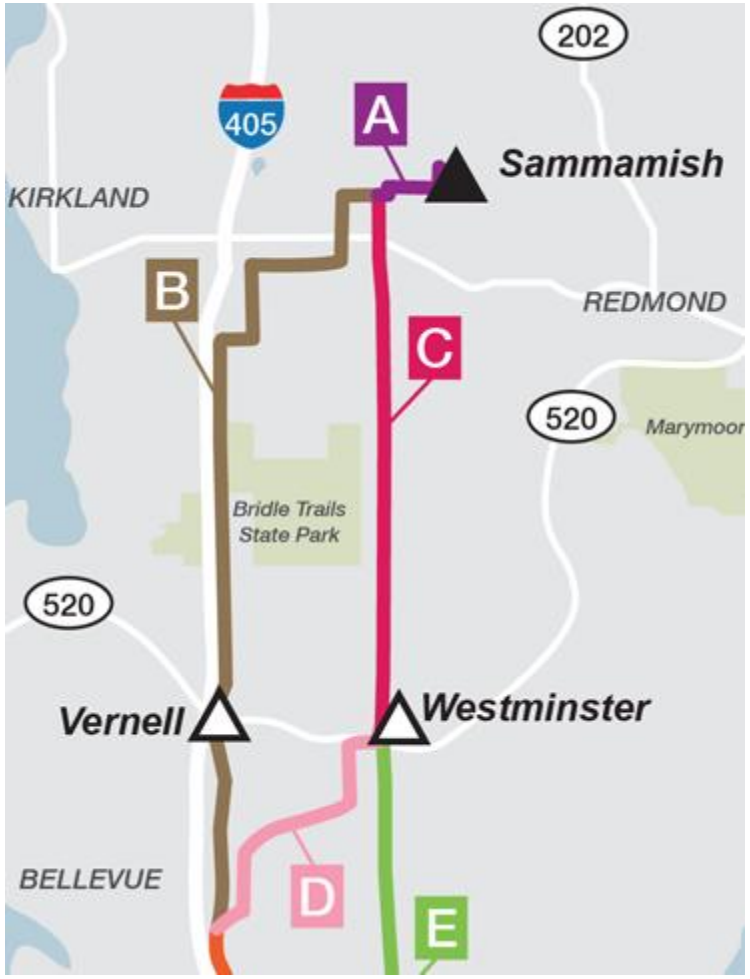
For the potential route segments in the north sub-area, what key issues should the Sub-Area Committee consider?

Issue	Survey total	Workshop total	Cumulative total
Electromagnetic Fields (EMF)	10	39	49
Property values	7	33	40
Residential impacts	11	25	36
Aesthetics	4	28	32
Number of properties impacted	5	24	29
Visual impacts	3	25	28

Segment A

Specific information identified

- Protect the trees
- Walkways for children should be documented



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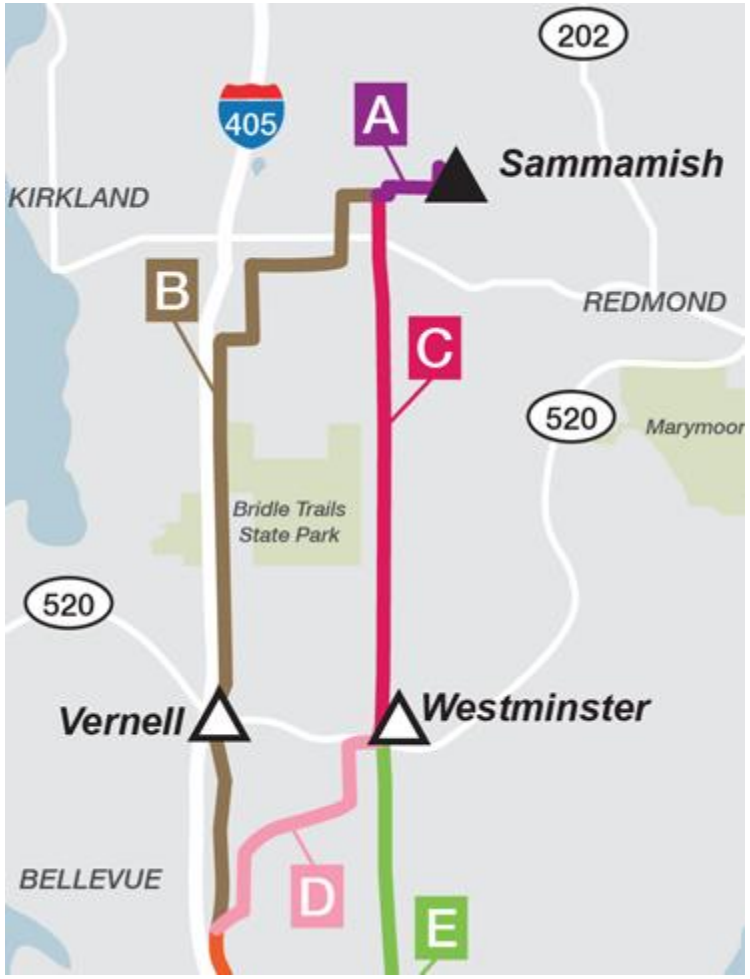
Segment B

Specific information identified

- 122nd Ave NE and 73rd St is a historic property
- 122nd Ave NE is a critical corridor for the Fire and Emergency Department
- Impacts to mature trees on 116th Ave NE



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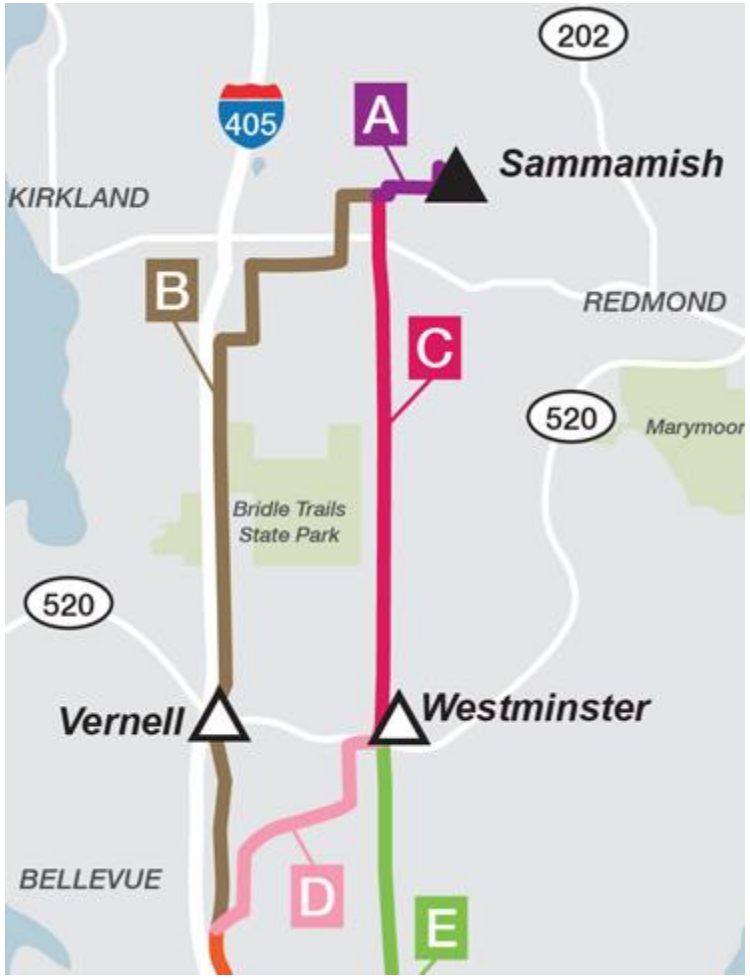
Segment C

Specific information identified

- Pea patches, tennis court and volleyball court at 6001 140th Ave NE, Redmond
- Space underneath the lines is a trail used by horses and pedestrians
- Existing petroleum pipeline and other utilities
- Significant tree to the west of the existing 115 kV lines at the end of NE 42nd St



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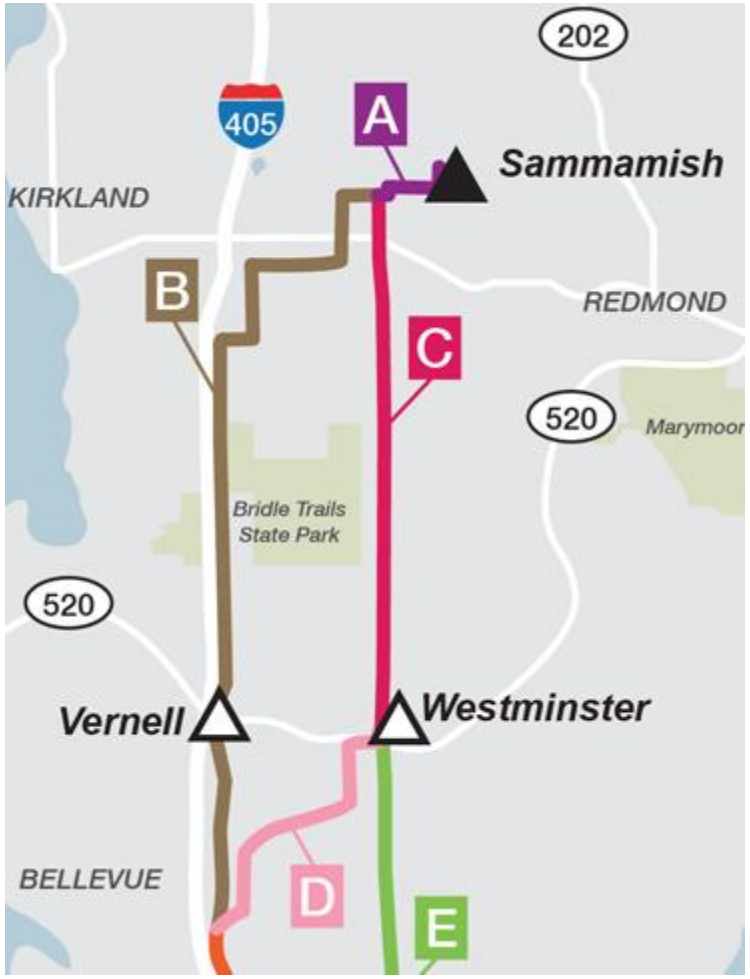
Segment D

Specific information identified

- Protect the trees
- Already a route for power through the area



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What we heard in workshop #1

- *Number of schools nearby*
- *Where does the alignment pass places that are wild and natural?*
- *Impact as few homes as possible*
- *Number of trees affected*
- *Use existing utility corridors*
- *EMF, human health and safety*
- *Number of properties around a route with view impacts*

Evaluation factors

- Least proximity to sensitive community land uses

  (parks and other recreational areas, registered historic sites, schools, churches, etc.)

- Least proximity to sensitive environmental areas

  (wetlands, wildlife habitat, fault lines, etc.)

- Least proximity to residential areas

  (number of residences, population density, noise, etc.)

Evaluation factors

- Least proximity to mature vegetation

  (number of trees impacted)

- Maximizes opportunity areas

  (runs along existing utility corridors, public right-of-way vs. private right-of-way, etc.)

- Most protective of health and safety

  (EMF, Olympic Pipeline, etc.)

- Least effect on aesthetics

  (pole design; see graphic representations)

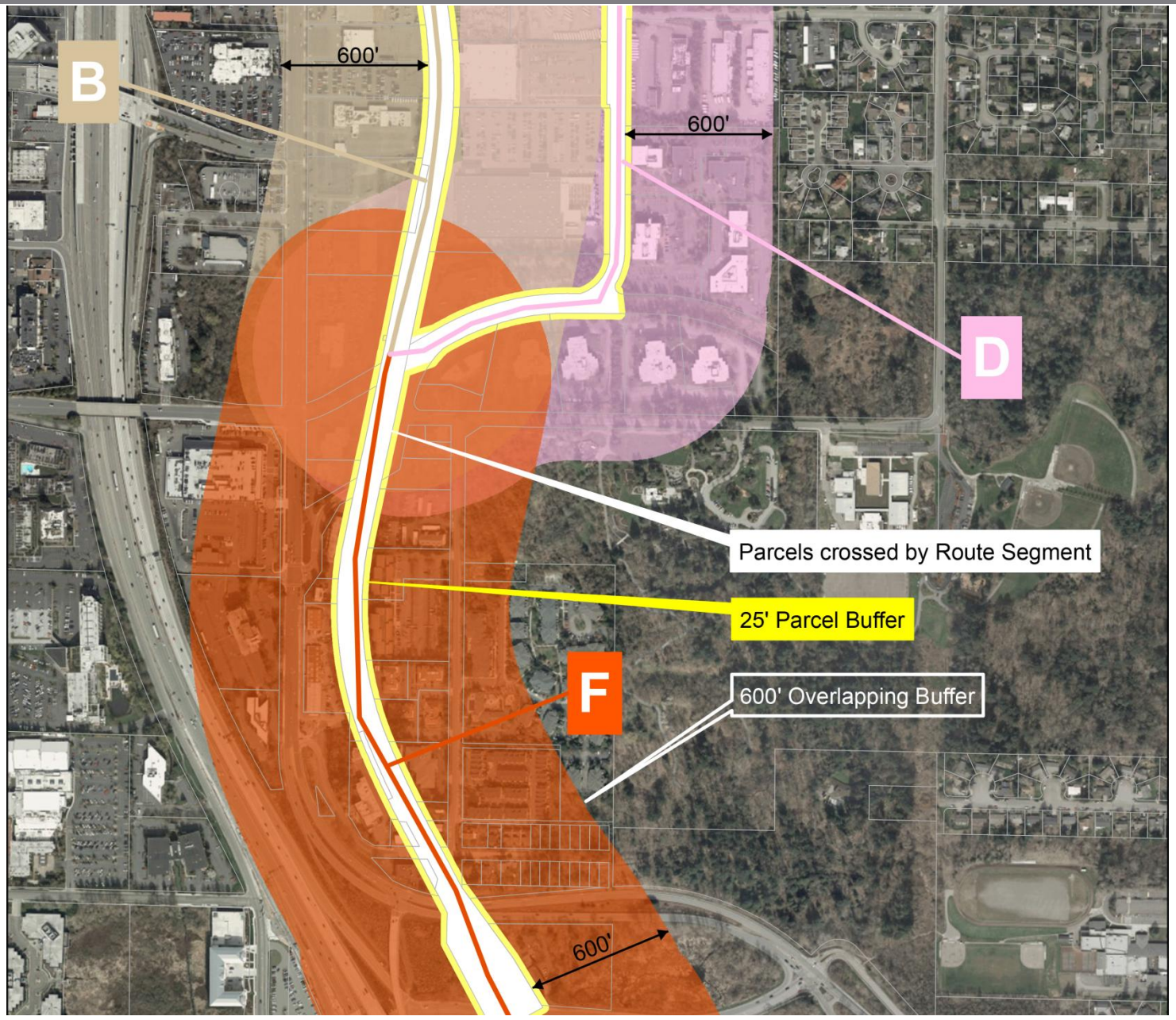
Key themes and evaluation factors

What we heard	Evaluation factors
Number of schools nearby	Least proximity to sensitive community land uses
Where does the alignment pass areas that are wild and natural?	Least proximity to sensitive environmental areas
Impact as few homes as possible	Least proximity to residential areas
Number of trees affected	Least impact to mature vegetation
Use existing utility corridors	Maximizes opportunity areas
EMF, human health and safety	Most protective of health and safety
Number of properties along a segment with view impacts	Least effect on aesthetics

Segment information

- Data tables
- Visual conditions and graphic representations

Buffers


B
600'
600'
D
Parcels crossed by Route Segment
25' Parcel Buffer
F
600' Overlapping Buffer
600'

Data table

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North Sub-Area Workshop #2

Segment Scoring Sheet

4/16/14

Evaluation factors	Segment A	Segment B	Segment C	Segment D
Least proximity to sensitive community land uses (parks and other recreational areas, registered historic sites, schools, churches, etc.)				
Least proximity to sensitive environmental areas (wetlands, wildlife habitat, fault lines, etc.)				
Least proximity to residential areas (number of residences, population density, noise, etc.)				
Least proximity to mature vegetation (number of trees impacted)				
Maximizes opportunity areas (runs along existing utility corridors, public right-of-way vs. private right-of-way etc.)				
Most protective of health and safety (EMF, Olympic Pipeline, etc.)				
Least effect on aesthetics (pole design; see graphic representations)				

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Visuals

- Two Graphic Sets

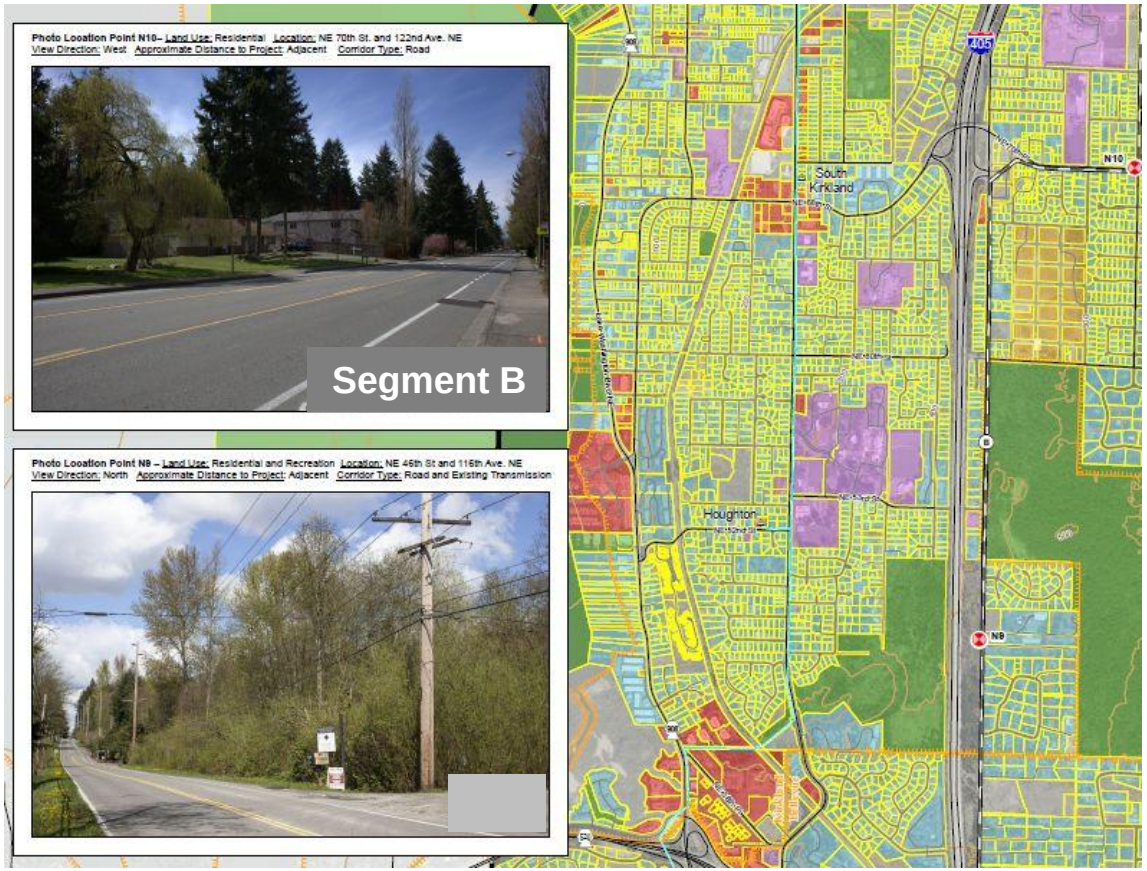
  1) Land Use and Existing Visual Conditions (Large map)

  2) Graphic Representations (at tables)

     - Existing conditions
     - Photo Simulations
     - 3-D Design Option Corridor Graphics

Visual assessment - Maps

Land Use and Existing Conditions



- Existing conditions in various settings
- Representative
- Key Observation Points identified for Graphic Representations (photo simulations, 3-D isometrics)

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Photo Simulations

Existing Conditions – Segment C

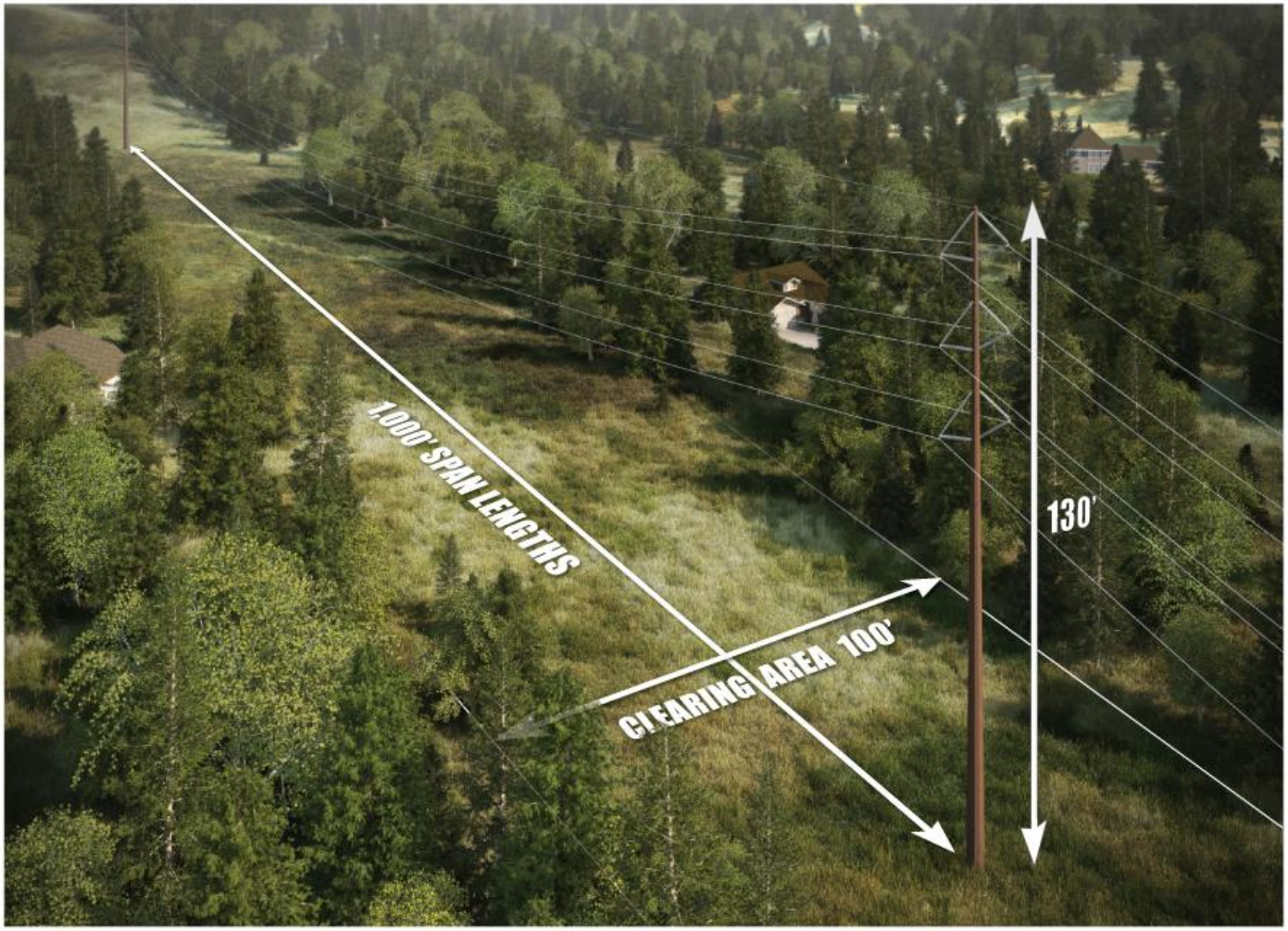
Photo Simulations

Segment C

Conceptual Project – Structure Type: G2-5

Photo Simulations are for discussion purposes only and may change pending public, regulatory and utility review.

Structure Type



STRUCTURE TYPE

G2-5

- Height: 130'
- Clearing Area: 100'
- Span Lengths: 1,000'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Photo Simulations

Segment C

Conceptual Project – Structure Type: G2-6

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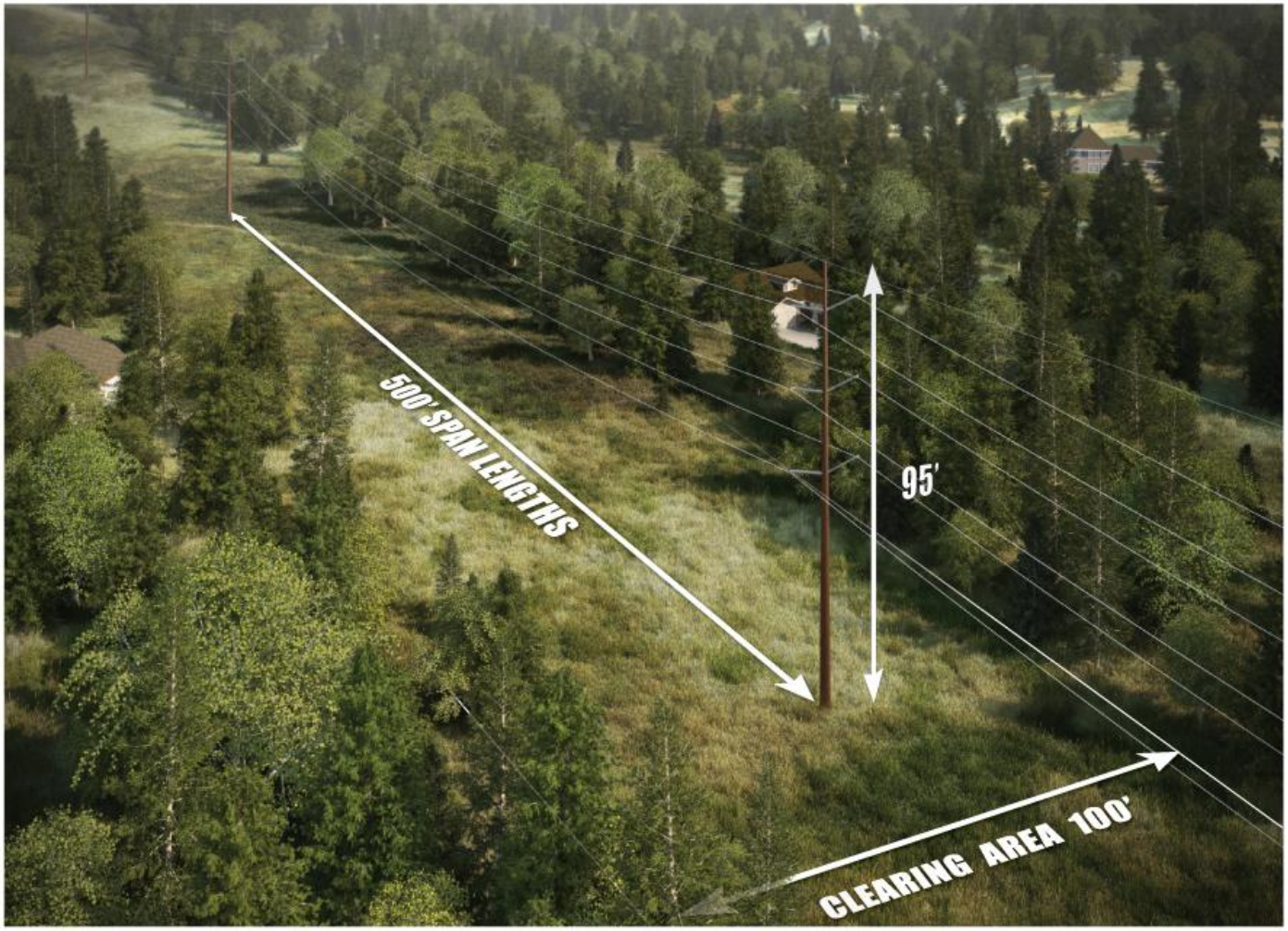
Structure Type



STRUCTURE TYPE

G2-6

- Height: 95'
- Clearing Area: 100'
- Span Lengths: 500'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Photo Simulations

Photo Simulations

Segment B

Conceptual Project – Structure Type: G3-2

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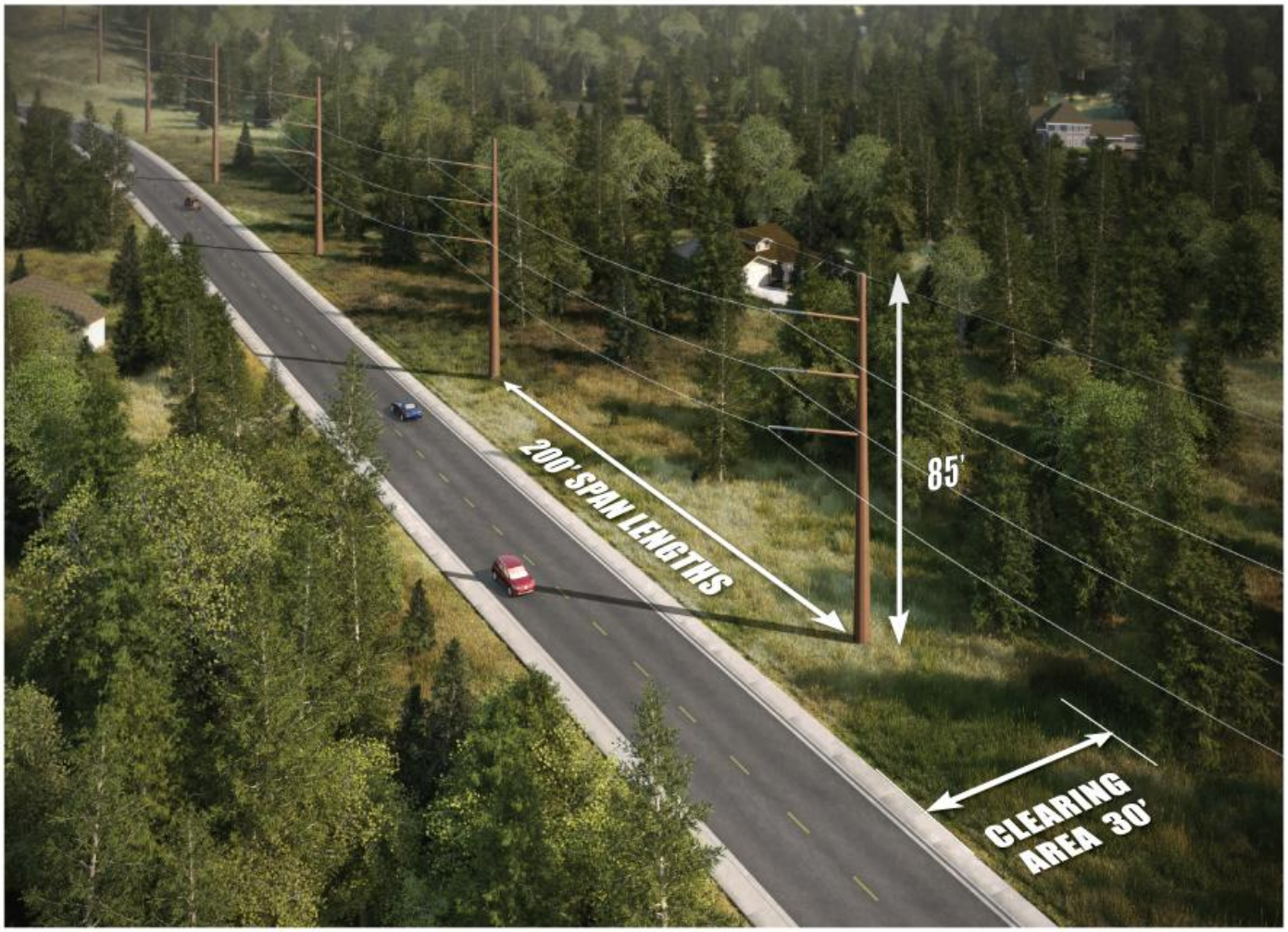
Structure Type



STRUCTURE TYPE

G3-2

- Height: 85'
- Clearing Area: 30'
- Span Lengths: 200'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

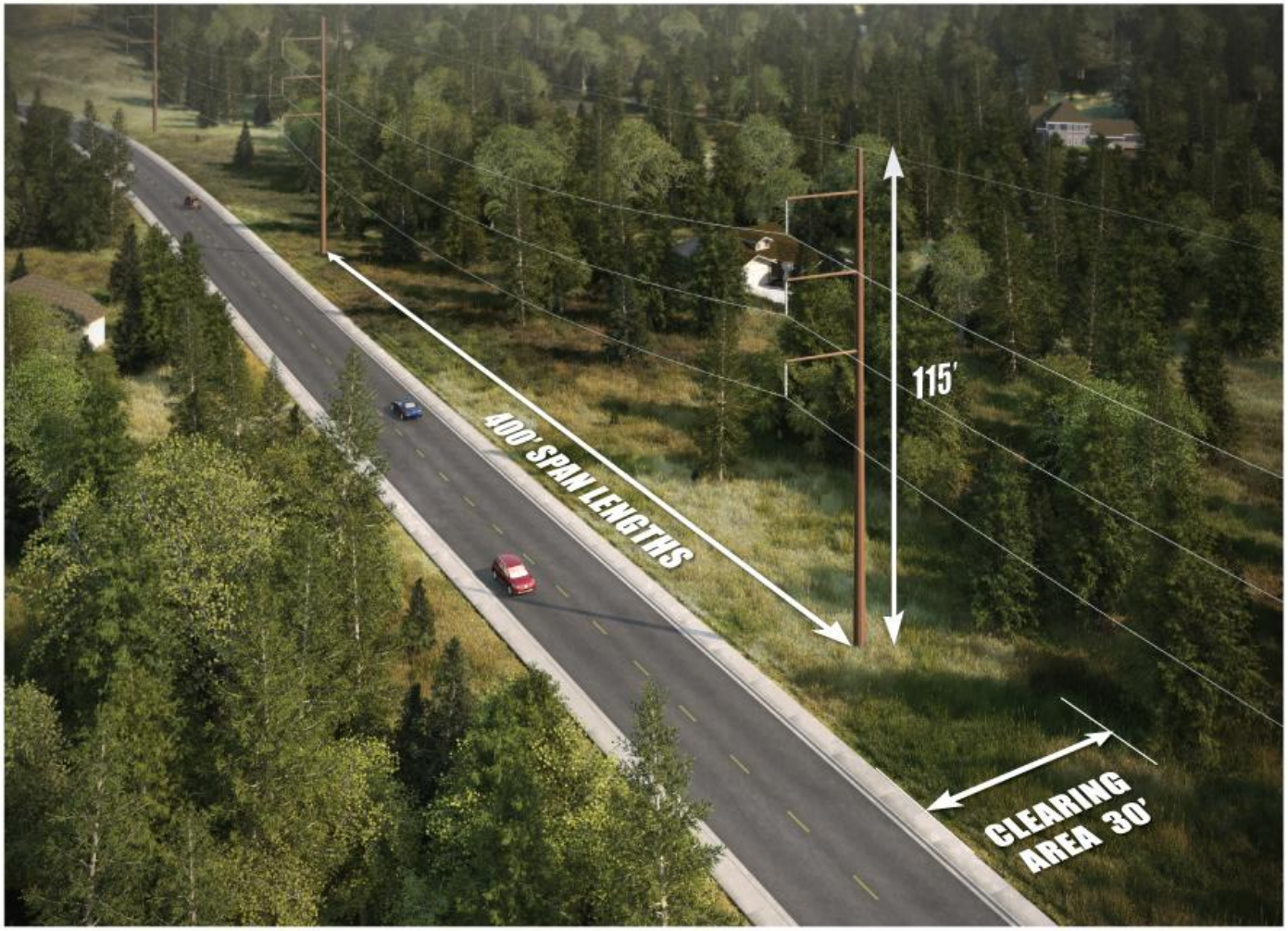
Photo Simulations

Segment B

Conceptual Project – Structure Type: G3-4

Photo Simulations are for discussion purposes only and may change pending public, regulatory and utility review.

Structure Type



STRUCTURE TYPE

G3-4

- Height: 115'
- Clearing Area: 30'
- Span Lengths: 400'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Photo Simulations

Existing Conditions – Segment B

Photo Simulations

Segment B

Conceptual Project – Structure Type: G3-4

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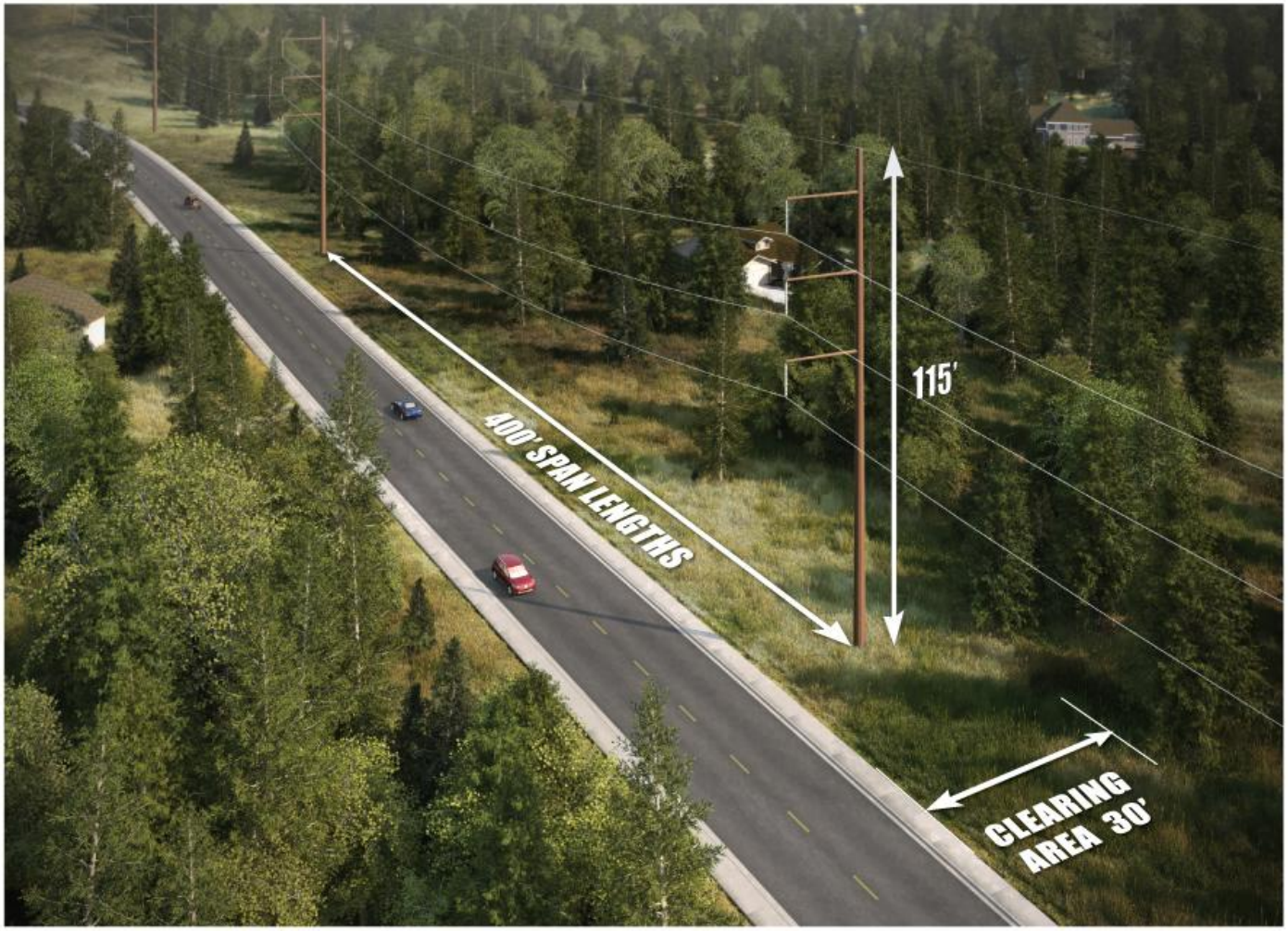
Structure Type



STRUCTURE TYPE

G3-4

- Height: 115'
- Clearing Area: 30'
- Span Lengths: 400'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Photo Simulations

Segment B

Conceptual Project –Structure Type: G3-8

Photo Simulations are for discussion purposes only and may change pending public, regulatory and utility review.

Structure Type

STRUCTURE TYPE

G3-8

- Height: 130'
- Clearing Area: 30'
- Span Lengths: 400'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Photo Simulations

Existing Conditions – Segment C

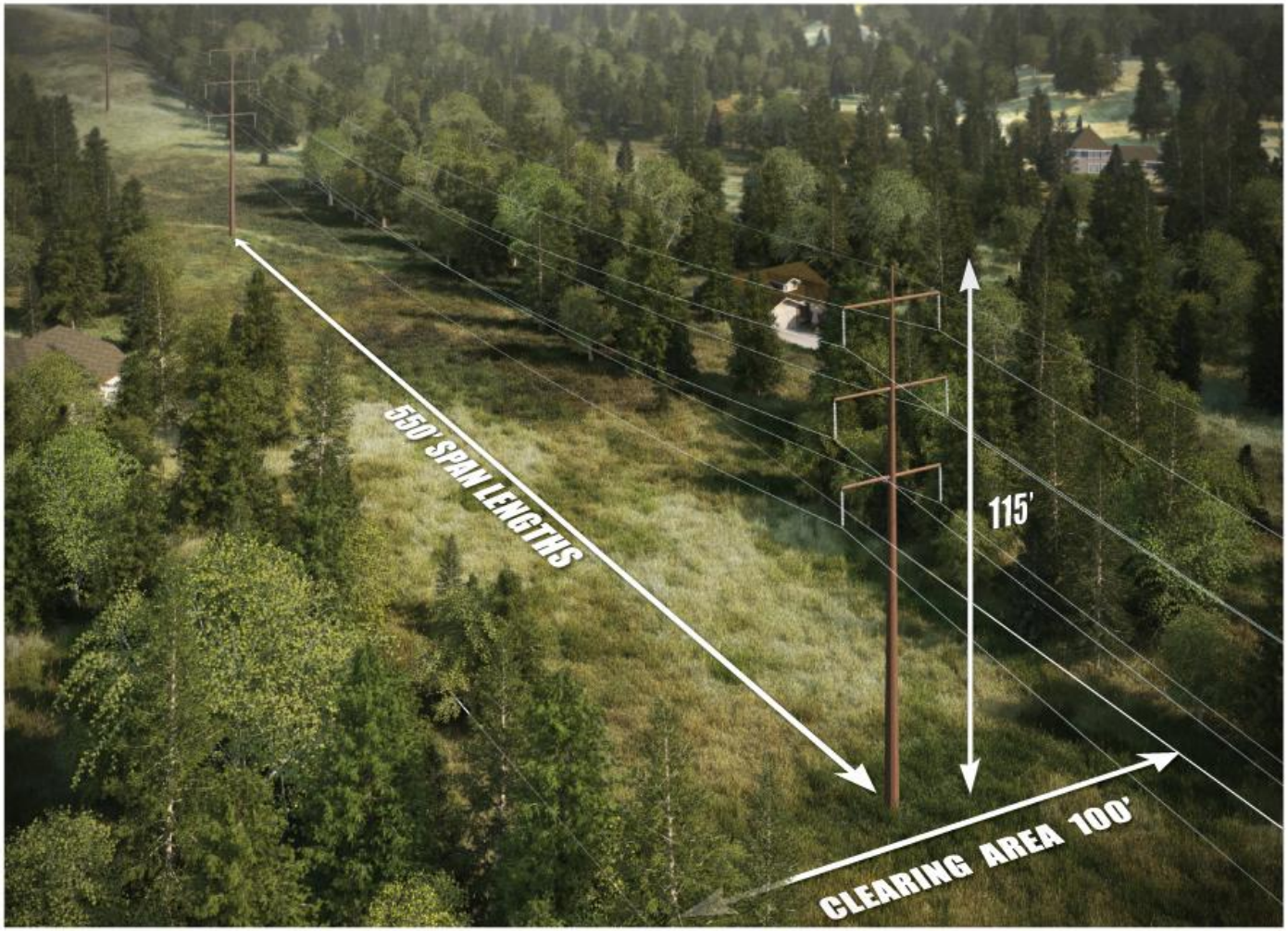
Photo Simulations

Segment C

Conceptual Project – Structure Type: G2-1

Photo Simulations are for discussion purposes only and may change pending public, regulatory and utility review.

Structure Type



STRUCTURE TYPE

G2-1

- Height: 115'
- Clearing Area: 100'
- Span Lengths: 550'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Photo Simulations

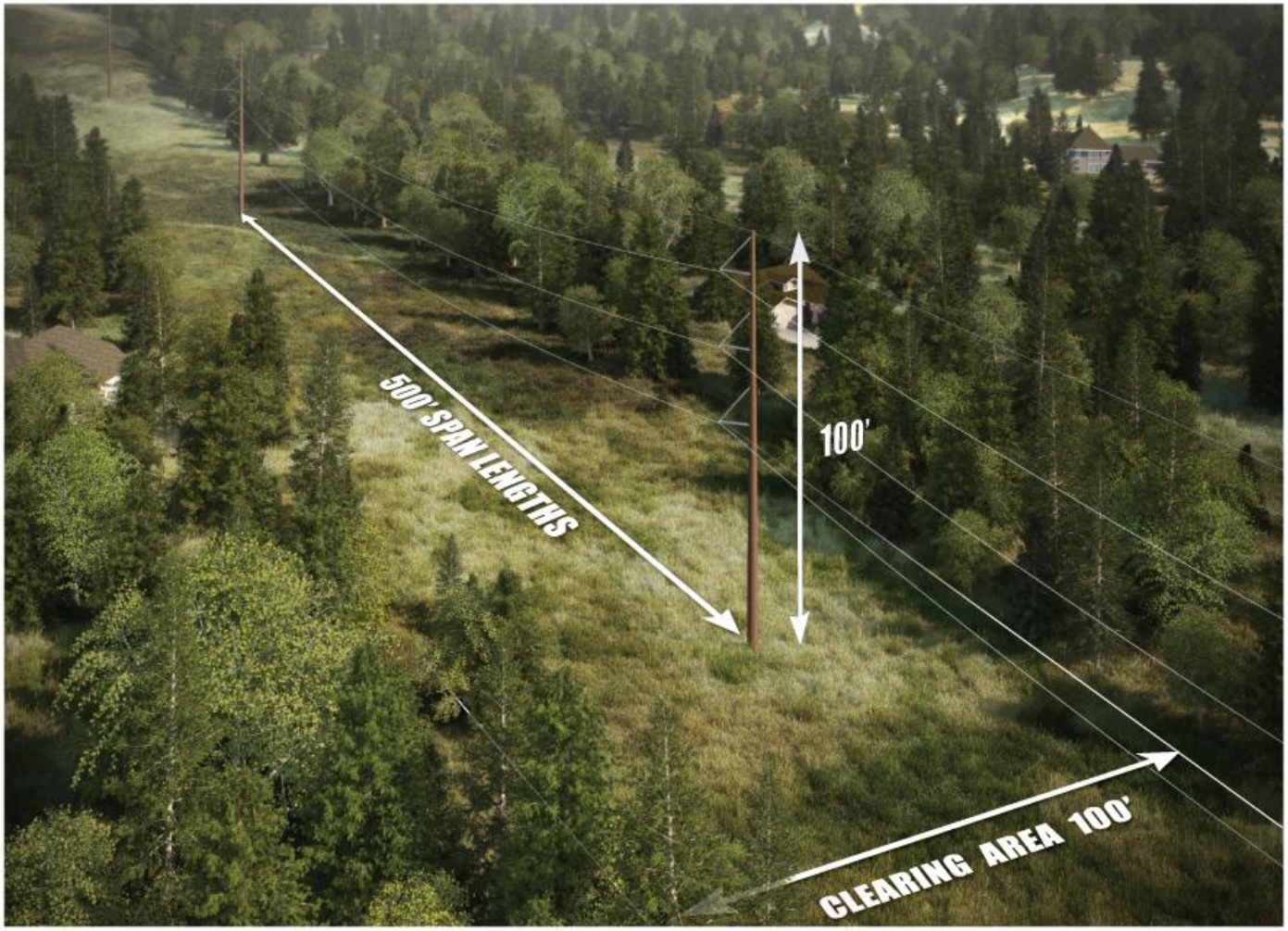
Photo Simulations

Segment B

Conceptual Project – Structure Type: G4-5

Photo Simulations are for discussion purposes only and may change pending public, regulatory and utility review.

Structure Type



STRUCTURE TYPE

G4-5

- Height: 100'
- Clearing Area: 100'
- Span Lengths: 500'

Note: Span Lengths and Tower Heights shown are typical, and may vary due to localized site conditions and engineering requirements.

Questions

- Clarifying questions about the information you just heard (15 min)

Scoring the route segments

- Score all segments in the north sub-area
- Use a ranking of 1 to 5
  - 5 points = Best meets
  - 4 points = Meets
  - 3 points = Mostly meets
  - 2 points = Mostly does not meet
  - 1 point = Does not meet at all
- Consider all the information provided

Scoring the route segments

- First, use the data provided to **individually** score all the route segments in the north sub-area (20 min)

- Then, score all the segments **as a group** (30 min)

Message to the Sub-Area Committee

- **As a group,** what is one key thing you want to say to the Sub-Area Committee about this sub-area? (15 min)

Upcoming meetings

- **Question and Answer Session**

  April 21 from 6 to 9 p.m. at Renton Technical College

- **North Sub-Area Committee Meeting**

  May 7 from 6:30 to 9 p.m. at the Old Redmond Schoolhouse

What's next for the advisory group?

Community Advisory Group | Sub-Area Committees | Community Meetings | Other Opportunities

WINTER	SPRING	SUMMER	FALL
1 Education	**2** Identify route options	**3** Narrow route options	**4** Recommended route
Learn about electric system and project need (COMPLETED)	Develop sub-area segment input for full Community Advisory Group discussion	**Community Meeting #2** Feedback on potential route options	**Community Meeting #3** Feedback on Community Advisory Group recommended route
Community Meeting #1 Feedback on project need, potential segments and route selection process (COMPLETED)	• Discuss community concerns • Develop potential route options based on input from Sub-Area Committees	• Discuss community concerns • Weight community values for evaluation process • Narrow route options to one recommended route	• Discuss community concerns • Consider public input and validate recommended route and provide route recommendation to PSE for consideration
• Discuss community concerns • Learn about the factors involved in developing the route segments (COMPLETED) • Bus tour of project area	**Community Advisory Group Meetings #3 and #4**	**Community Advisory Group Meeting #5**	**Community Advisory Group Meeting #6**

Neighborhood and community group briefings, fairs and festivals, public kiosks, online surveys

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Thank you!