Transmission lines
Overhead Distribution
Underground Distribution

P.U.D.
CHELAN COUNTY

N
W E
S

Transmission (conceptual)
Single Route
Loop Route

Distribution (conceptual)
Circuit Routes

8-a

9

3

Leavenworth Substation – Site Considerations

Site 3 (Gravel Pit)

Electrical Considerations:

- Single source supply is less reliable, but less visual impact
- Double source supply is more reliable, but more costly and greater visual impact
- Transmission supply is a greater distance away, requiring additional transmission to be built
- Tie-in to delivery distribution infrastructure is favorable

Site Access and Earthwork:

- Site topography is favorable, but would require two access points and entrance earthwork

Aesthetics:

- Site would be visible to town entrance
- Significant shielding via plantings and solid perimeter walls would be required
- Transmission would be required near the town commercial district and/or residential areas

Site 8a (Rattlesnake Hill)

Electrical Considerations:

- Double source supply is available nearby, which would enhance reliability
- Some transmission construction would be required, but rather minimal
- Tie-in to delivery distribution infrastructure is available, but distribution runs would be longer

Site Access and Earthwork:

- Site topography is challenging and costly, but likely achievable due to large lot size
- Site access is challenging and might require additional property to the north

Aesthetics:

- Shielding of this site looks favorable due to topography and existing trees
- Transmission would be coming from industrial/commercial areas
- Additional delivery distribution lines would be required

Site 9 (PUD Site)

Electrical Considerations:

- Double source supply is at the site, which enhances reliability
- The site is adjacent to existing substations, which increases risk consequences
- Tie-in to delivery distribution infrastructure is a challenge
- Distribution new construction and rerouting of existing distribution would be required

Site Access and Earthwork:

- Site topography is favorable, as is site access

Aesthetics:

- Less shielding would be required because the site is next to existing substations
- Transmission aesthetics would remain about the same
- Additional delivery distribution lines would be required

Transmission Rendering
State Parking Lot Looking Northeast

Existing Supply Line

Pole Height is approximately 40’

New Transmission Source Line with Underbuilt Supply Line

Pole Height is approximately 60’

Supply line is relocated to west of state property

New Transmission Source Line with Buried Source Line

Pole Height is approximately 50’

Transmission Rendering
Mills Street Looking Southeast

Existing Supply Line

Pole Height is approximately 40’

New Transmission Source Line with Underbuilt Supply Line

Pole Height is approximately 60’

New Transmission Source Line with Buried Source Line

Pole Height is approximately 50’

Transmission Rendering
Municipal Pool Parking Lot Looking West

Existing Supply Line

Pole Height is approximately 40’

New Transmission Source Line with Underbuilt Supply Line

Pole Height is approximately 60’

New Transmission Source Line with Buried Source Line

Pole Height is approximately 50’