Vertical Conveyance Design Standards

11/14/19
Why we are here

• Vertical Conveyance Design Standards for Link Stations
• Today we are here to provide an update about the current design standards for elevators, escalators and stairs in future Link stations.
• For information only.
Design Standards at Sound Transit

Sound Transit Link Standards Documents

- Design Criteria Manual, updated 2018
- Standard Specifications, updated 2018
- Directive and Standard Drawings, updated 2019

Standards Development

- Collaborative cross-departmental process with staff from planning, design, customer experience, construction, operations
- Updates planned on approximately two-year cycles with interim amendments issued as needed
- Includes lessons learned from current stations
Public stairs

Updated standards include

- If a station has escalators, it will also have public stairs

Public stairs at future stations

- U District Station had stairs added
- All Northgate, East Link and future stations conform to this standard
- Note: emergency egress stairs always provided per code
Escalators

Updated standards include

• Heavy duty escalators
• Upgraded durability of critical components including step chains, motors, comb plates and drive machinery
• Increased loading capacity
• Remote controllers allowing some maintenance activities without shutting down escalator
• Sleep mode to reduce energy consumption and limit wear on equipment
Elevators

Updated standards include

• Redundancy - Where one elevator is provided, a second elevator or alternate accessible path must be provided at all future Link stations

• Heavy duty loading capacity to accommodate wider range of mobility devices
Updated maintenance standards

• In all future stations including those in construction, maintenance will be provided by the installer for up to five years

• If escalators reverse, then they will be exercised monthly in the reverse direction
Summary

Improving the customer experience through design and maintenance standards

• Stairs near escalators
• Heavy duty escalator equipment
• No reliance on a single elevator
• Longer maintenance period by installers
Thank you.