Zoom Video is shown here

Discussion of Required Electrical Utility
Undergrounding in the 145th Street Station
Subarea and the Impact on the Sound
Transit LLE Project and MUR-70'
Development



February 28, 2022

- Background on SMC 13.20 and electrical undergrounding
- Background on electrification of the ST LLE Project
- Application of SMC 13.20 on the LLE Project and for development
- Alternatives for Council consideration

- Provides City underground regulations
- SMC 13.20.100 Purpose
- SMC 13.20.040 Exceptions for undergrounding
- SMC 13.20.050 Undergrounding required if:
 - City CIP project
 - Joint trenching project
- New extensions, additions, duplications, or rebuilds or any new facilities in areas with no overhead wires

- LLE Project elements requiring 3-phase power:
 - Temporary Construction Power
 - Station and Parking Garage Power
 - Traction Power Sub-Station (TPSS) power to make light rail train operate
- SCL 5th Ave Duct Bank
 - 3-phase power to ST LLE
 - Schedule delayed 2023 to 2027

- With delay in duct bank project, direct bury power in 5th Ave not accessible/usable
- Closest 3-phase power on 8th Ave NE
- For LLE Project construction, temp power extended from 8th Ave NE on NE 148th to ST station at 5th Ave
- Proposal to use this power for interim operational power; Code amendment required

New Temp Overhead 3-Phase Power on NE 148th Street







- Additional 3-phase Power needed to power TPSS
- Without duct bank or alternative overhead 3phase power source, Sound Transit service will be delayed
- Proposal to upgrade/rebuild powerlines along 152nd to 3rd Ave to power TPSS until duct bank completed; Code amendment required

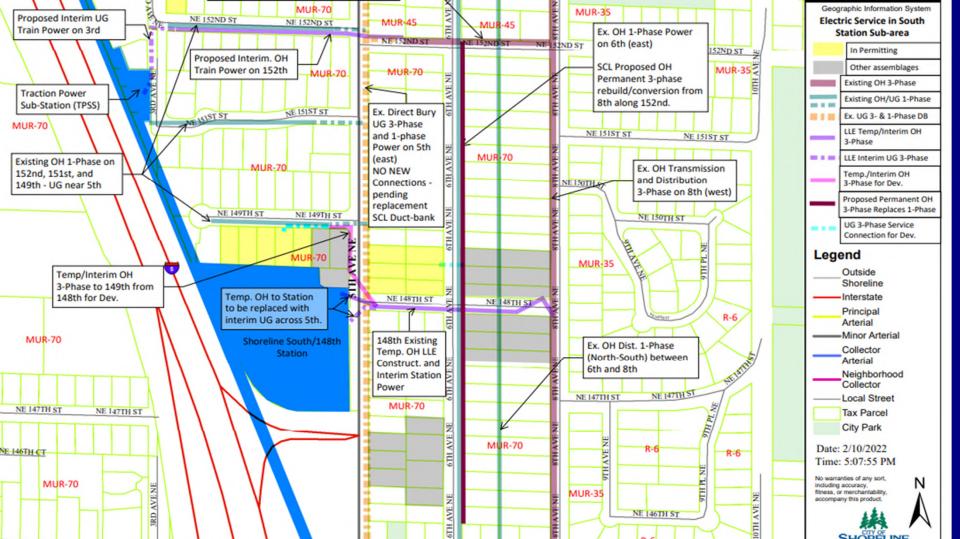


Existing Overhead Power on NE 152nd Street









What is at issue – New Development

- Some development in 145th Station Subarea also relying on duct bank project for 3-phase power
- Need temporary construction power and interim operational power until duct bank is completed
- Proposal to allow overhead temporary construction power as an exception to undergrounding regulations;
 Code amendment required – SMC 13.20.040
- Proposal for some overhead 'interim' power to be constructed/remain in place until duct bank completed;
 Code amendment required – SMC 13.20.050

Council Policy Questions

- Is Council supportive of an amendment to SMC 13.20.040 to allow for overhead temporary construction power? (Option 1)
- Is Council also supportive of some level of interim overhead power until SCL-planned facilities are installed? (Option 2)

Recommendation

- Allow for overhead temporary construction power; amend SMC 13.20.040 immediately
- 2. Allow for interim overhead power in some circumstances until SCL-planning undergrounding facilities are installed; amend SMC 13.20.050 subsequently
- 3. Continue to engage with SCL

