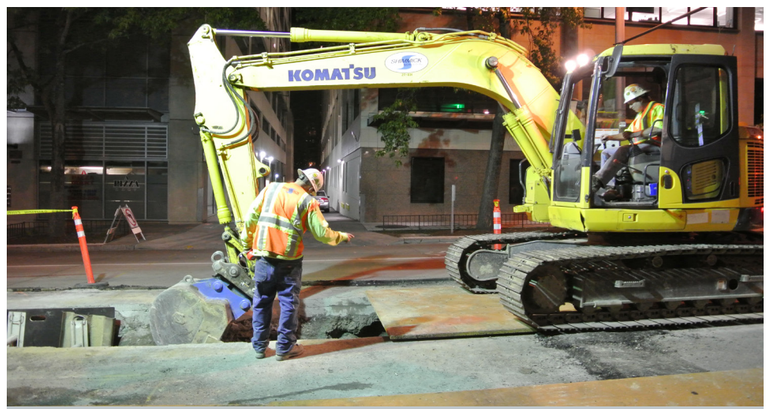
Denny Substation Program

WHY WEEKEND AND NIGHT WORK?

Occasionally, the crew must conduct nighttime and weekend work due to the area's transit routes, major intersections, and overall complexity. We will continue to work on the weekend and at night to allow as much movement as possible through the area during weekday commute hours and other peak times. Work during this time was approved and is monitored by the City of Seattle's Department of Construction and Inspections. We appreciate the community's patience as we work as quickly and safely as possible.

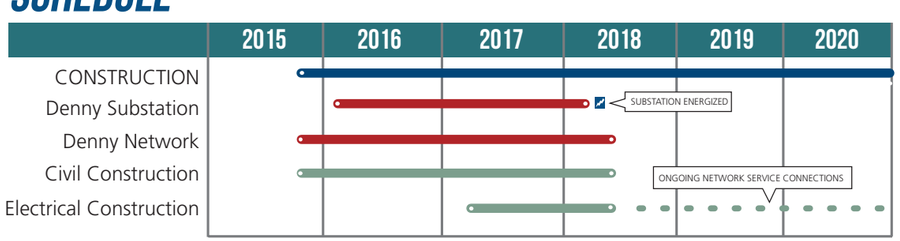


Nighttime excavation work on Stewart Street

WONDERING WHEN WE'LL BE WORKING ON YOUR BLOCK?

To stay updated on when work will occur on your block, go to our interactive construction map and click on your street.
Find it here:
www.seattle.gov/light/dennysub/gismap.asp

SCHEDULE



WHAT'S AHEAD:

SUMMER 2016:
Project outreach at the South Lake Union Block Party (August 12)

VISIT OUR WEBSITE:
www.seattle.gov/light/dennysub

SEND US AN EMAIL:
SCL_dennysub@seattle.gov

CALL OUR HOTLINE:
(206) 257-2142

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Seattle City Light

Powering Seattle through the 21st Century

Denny Substation Program

QUARTERLY REPORT

2ND QUARTER | 2016

Construction of the Denny Network is in progress, and crews have broken ground on the Denny Substation site! The network crew has installed 5 vaults and over 1,335 linear feet of duct bank, and the substation crew has already drilled 57 concrete shafts, which will serve as foundational support for the substation structure. Look inside for more on construction progress!

Our outreach team has been hard at work ensuring that local businesses and residents are in the know about construction activities in the area. In the second quarter, our team shared information at the Terry Avenue Farmers Market and the South Lake Union Saturday Market. We also began hosting online construction updates. These web-based meetings occur monthly and are a great way for the public to ask the contractor questions, learn about construction activities, and remain aware of upcoming work. Our next online update will be July 28 at noon.

A team member answering questions at the June 23 Terry Avenue Farmers Market.

Members of the project team preparing for the June 30 online construction update.

INSIDE:

DUCT BANKS AND VAULTS 101 | UPCOMING WORK | WHAT TO EXPECT DURING CONSTRUCTION

Denny Substation Program

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DENNY NETWORK CONSTRUCTION

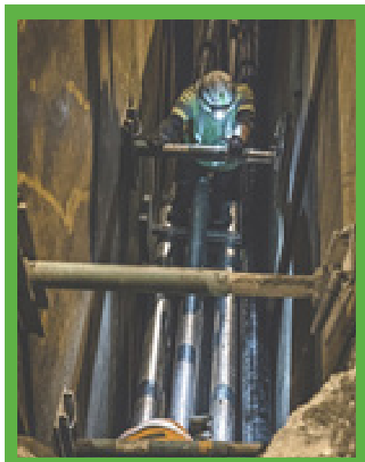
When complete, the network will span 54 city blocks throughout the South Lake Union and Denny Triangle neighborhoods. Follow along below to better understand what the components of the network look like, and how they are installed.

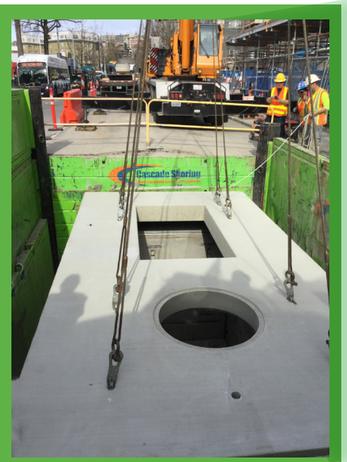
Construction of the Denny Network consists of two major components: vault and duct bank installation.

A duct bank is an underground structure of conduits (pipes) that creates a pathway for electrical conductors and wiring to deliver power to customers. A vault houses transformers and provides access to the wiring. Vaults are typically installed first because they serve as start and finish points for the duct banks. Once the ground has been excavated and shored (reinforced), concrete panels for the 10 X 20 foot-wide vault are carefully lowered into position by a crane.

Next, the duct bank is installed by first excavating and shoring a pathway between two vaults. Then, duct bank pipes are laid into the pathway to form what's called "the raceway." Once installed, the duct bank is encased with red concrete that serves as a visual warning of high-voltage electricity.

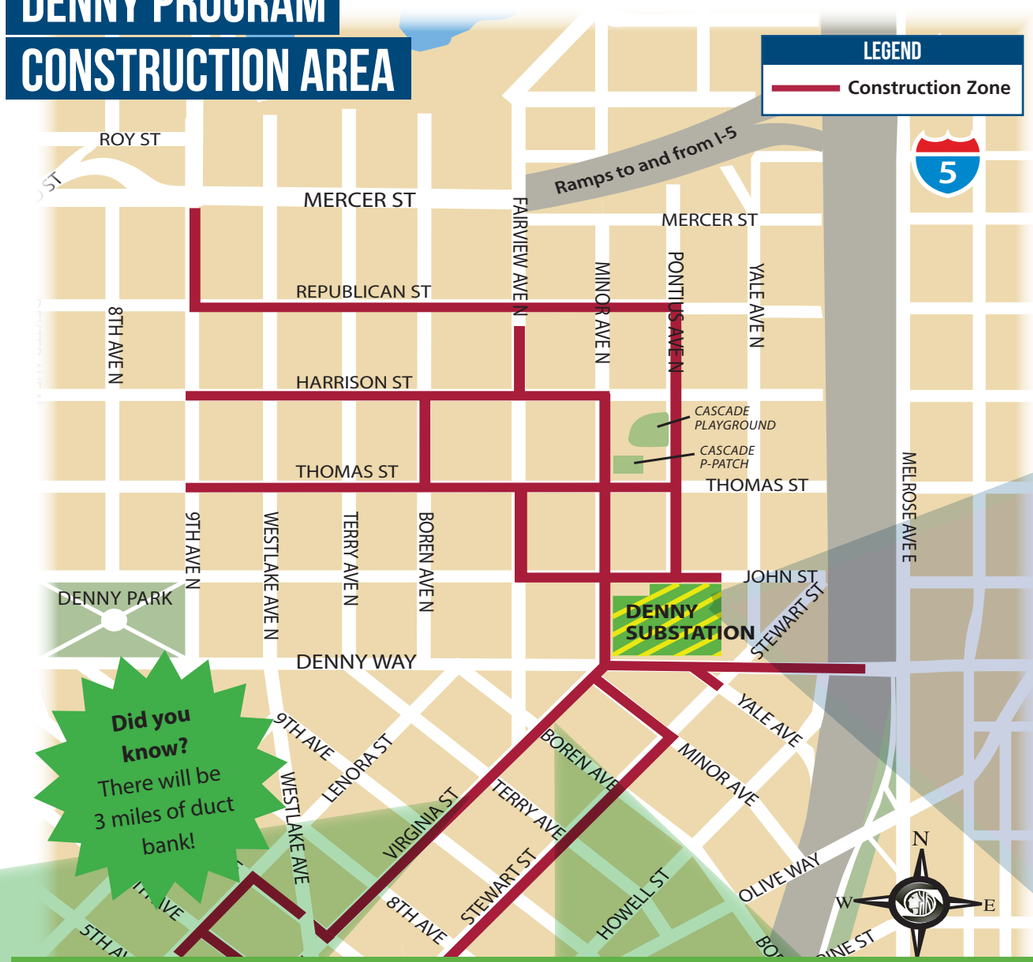
The excavations are then covered with dirt or "backfill," and the roadway is temporarily paved. At a later date, the entire roadway is permanently restored with concrete and asphalt paving.





INSTALLING "THE RACEWAY"

DENNY PROGRAM CONSTRUCTION AREA



Did you know? There will be 3 miles of duct bank!

EXCAVATION

BACKFILLING WITH RED SAFETY CONCRETE

DENNY SUBSTATION CONSTRUCTION

Substation construction began in March 2016. Crews have completed excavation for an electrical vault that will be installed on John Street later in the third quarter and have begun relocating water and sewer lines between Minor and Yale avenues. Crews will continue to drill shafts and pour concrete for foundation columns inside the substation site.

EXCAVATION FOR WATER AND SEWER LINE RELOCATION

DRILLING SHAFTS FOR SUBSTATION FOUNDATION COLUMNS