Denny Substation Program

Powering Seattle through the 21st Century

ANOTHER MILESTONE ON THE HORIZON

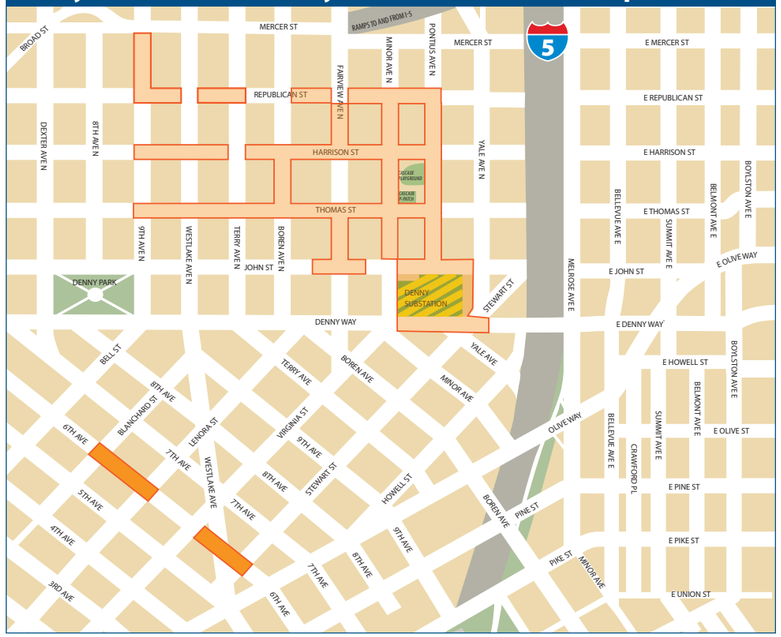
The Denny Network reached the 97% mark of completion for duct bank installation and roadway restoration south of Denny Way. Although all 30 vaults have been installed, more utility work, saw cutting, excavation, shoring, and roadway restoration will keep us busy in 2018 throughout the South Lake Union neighborhood. In 2017, over 6,400 feet of duct bank was installed, bringing duct bank installed to date to a total of more than 11,500 feet!

WHAT'S NEXT?

In early 2018, crews will complete installation of the substation's siding and glass and will put the finishing touches on the elevated walkway. Other upcoming visible work in and around the substation includes restoration of the alley, build-out of the community spaces, and final paving on Minor Avenue N and inside the substation.

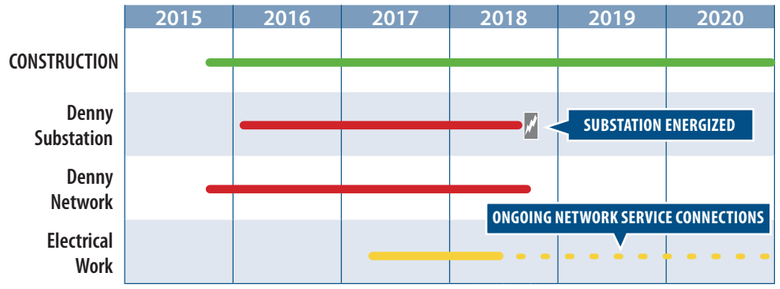
In addition to advancing improvements in the Cascade neighborhood, the Denny Network will continue duct bank installation and roadway restoration in the South Lake Union area.

Denny Substation and Denny Network Construction Map



Project map showing the areas of work in the next phases of the Denny Substation and Denny Network

SCHEDULE



VISIT OUR WEBSITE:
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QUARTERLY REPORT

4TH QUARTER | 2017

POWERING SEATTLE INTO THE 21ST CENTURY

THEN:
Bird's-eye view taken in January of 2017.

NOW:
A year later, with the walkway, siding, and interior nearing completion.

2017 was a year of accomplishment for the Denny Substation Program. Among our significant achievements were the installation of three 125,000-pound transformers at the substation and progress on the elevated walkway and the architectural siding. We also upgraded the substation's transmission line, which means we're one step closer to being powered up! As we move toward program completion in 2018, you'll see the community's "fingerprints" on the project as public input provided during the design comes to life.

THE PROJECT TEAM THANKS ALL OF YOU for your ongoing involvement and interest in this significant investment in Seattle. Cheers to 2018 and the project's final stage!

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PUBLIC BENEFITS COME TO LIFE

The elevated walkway—one of the substation's most prominent features and most popular public benefits— evolved dramatically this year. It will provide a public space for exercise and opportunities to see the inner workings of the substation.

In the fourth quarter, work began on two additional public benefits: the educational viewing portals and community rooms (pictured at right), which will serve as spaces for public use. Unlike most substations, which are designed to keep the public away, the Denny Substation incorporates unique community-requested features that are intended to draw people to the substation and encourage them to learn how it works.

THEN: *Exposed structural steel and concrete form the base for the elevated walkway in January 2017.*

NOW: *Concrete walkway, siding and handrail installation on the elevated walkway. The "portals" on the right side of the photo will allow the public to look into the substation and witness it at work.*

SNEAK PEEK: *It may not look like it now, but this will soon be a place for community gatherings and events.*

INSIDE THE SUBSTATION

PUTTING THE TRANSFORMERS TO WORK

THEN: *Empty platforms ready to hold the weight of three gigantic transformers.*

NOW: *All three transformers resting on their foundations and being prepped for energization in December 2017.*

AROUND THE SUBSTATION

NEIGHBORHOOD IMPROVEMENTS UNDERWAY

The Denny Network has been busy working on project elements that will benefit the neighborhood. Crews have been working on the Cascade Neighborhood Street Improvements, which include a festival-style street (see rendering below) and pedestrian lighting, new sidewalks, and additional trees and landscaping. Feedback from Cascade residents, as well as guidance from other neighborhood plans, helped to shape these improvements.

OUTSIDE THE SUBSTATION

OUT WITH THE OLD, IN WITH THE NEW

TYING IT ALL TOGETHER: Transmission line work on E Denny Way (between Summit Avenue and Boylston Avenue E) and on Denny Way (near Stewart Street and Denny Way intersection) was completed this quarter. This work was necessary for the Denny Substation to tie into the transmission line that runs underneath Denny Way.

This work involved excavating a large pit to expose the existing transmission line, freezing the oil-filled transmission line, removing a section of the old line, splicing new cable, filling the new line with oil, and restoring the street. The Denny Substation can now be connected to other City Light substations and can accept high voltage electricity that will then be transformed into voltages customers can use.

Crews removed approximately a half-mile of old cable as part of upgrading the transmission line for the substation.