Denny Substation Program

Powering Seattle through the 21st Century

QUARTERLY REPORT

3RD QUARTER | 2017

THE SUBSTATION IS SHAPIN' UP!

The first of three 125,000-pound transformers that will power the substation was lowered in place in August

The Denny Substation recently received noteworthy additions with the delivery of its three transformers and the completion of its structural walls. This is an exciting time, as the substation is starting to resemble what it'll look like when it's finished.

The Denny Network installed its last vault and completed 90% of roadway restoration in the Denny Triangle area. To date, over 8,800 linear feet of underground duct bank has been constructed!

INSIDE THE SUBSTATION:

The transformers are here! Transformers are devices that transfer electrical energy more efficiently. Their main job is to transform the high voltage electricity into low voltage electricity that's more usable by customers. All three transformers have been installed, helping the substation get closer to operation.

Crews are completing other work inside the substation such as installing electrical equipment, and testing underground utilities.

OUTSIDE THE SUBSTATION:

"One-of-a kind" exterior begins to take shape During the third quarter, the substation started to take shape with major advancements on the substation's walls and elevated walkway. With installation of the structural steel on the west side complete, and further progress on the siding of the east and south areas, the "look" of the substation is coming together. Crews expect to complete the siding by the end of 2018.

A crewmember installing metal siding on the outer wall of the substation, providing an early glimpse of what the substation will look like when it is finished.

A wider view of the outer wall provides a bigger picture of what the substation will look like. The unfinished section of wall above the siding will eventually be home to the project art call "Switchwall". The area in the foreground will be part of the publicly accessible elevated walkway.

AROUND THE SUBSTATION:

THE DENNY NETWORK REACHES A MAJOR MILESTONE

Ready, set, vault! The Denny Network Project reached a key milestone with the installation of the last of 30 underground vaults on 9th Ave N between Republican and Mercer streets. The majority of the work in the Denny Triangle neighborhood has been completed. Duct bank installation and roadway restoration south of Denny Way is scheduled to be completed by the end of the 4th quarter this year.

Vault installation is a complex process that involves locating existing utilities, saw cutting pavement, excavating the street, installing shoring and bedding, setting the vault structure, backfilling, and restoring the roadways.

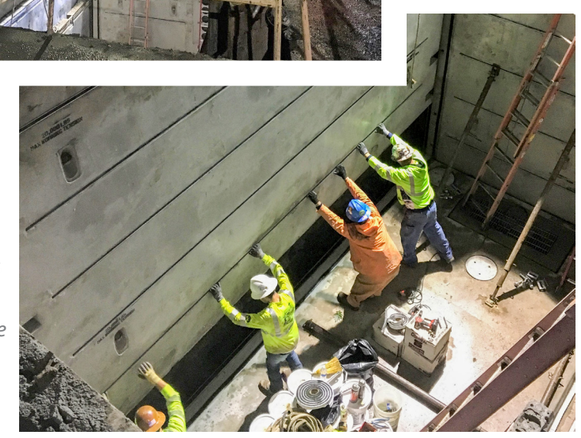
3RD QUARTER PROGRESS

Denny Triangle:

- 10 vaults installed
- 4,503 linear feet of duct bank constructed
- 90% of roadway restoration is completed

South Lake Union:

- 20 vaults installed
- 4,349 linear feet of duct bank constructed
- 5% of roadway restoration completed



Crews installing the last of 30 vaults in the network on 9th Ave N in South Lake Union. Each 10' x 20' vault houses electrical equipment that makes it possible to deliver power to buildings on the distribution network.

Before each vault can be installed, crews must make sure the area is clear of any utilities and shore up the sides to keep the excavated pit from caving in.

Duct banks must be shored to ensure the trench doesn't cave in during installation.

After duct banks are installed, the roadway is restored to its previous condition.

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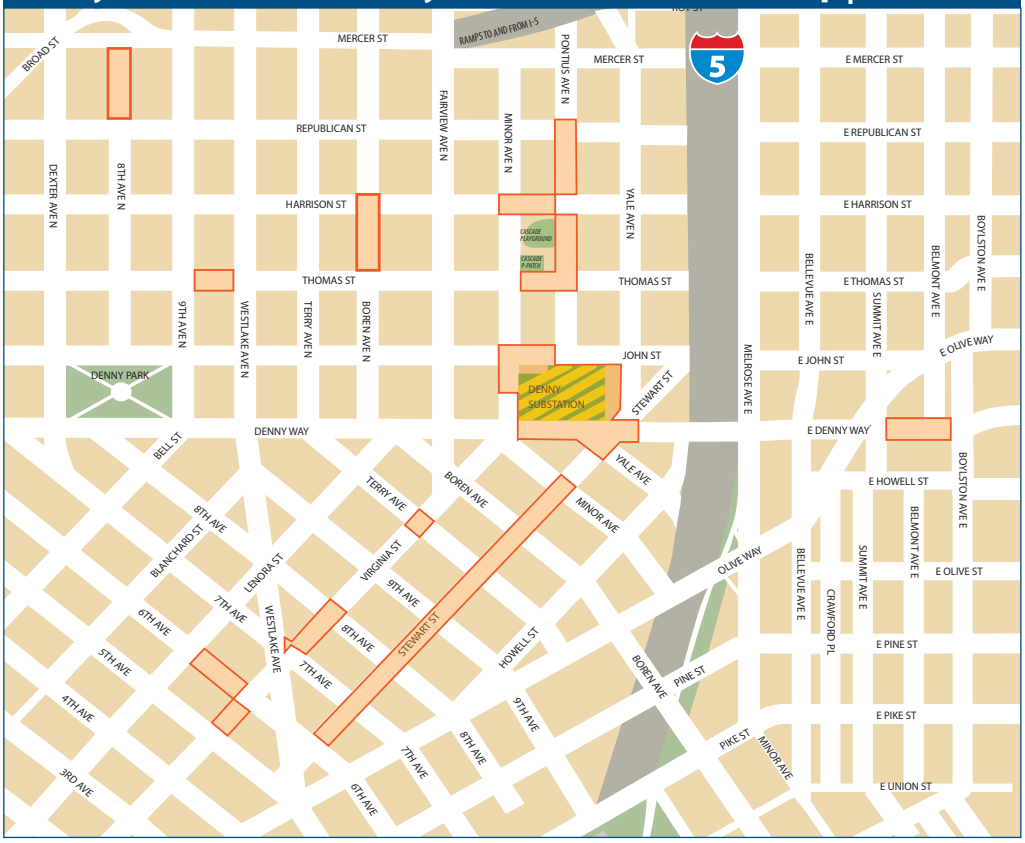
WHAT'S NEXT?

Work adjacent to the Denny Substation will focus on connecting the substation to an existing underground transmission line. This work is critical to "energizing" the substation in mid-2018 and involves extended work on E Denny Way (near Belmont Ave E), John Street (near Minor Ave N) and Denny Way (near Stewart Street).

The Denny Network will be continuing duct bank installation and roadway restoration in the South Lake Union area.

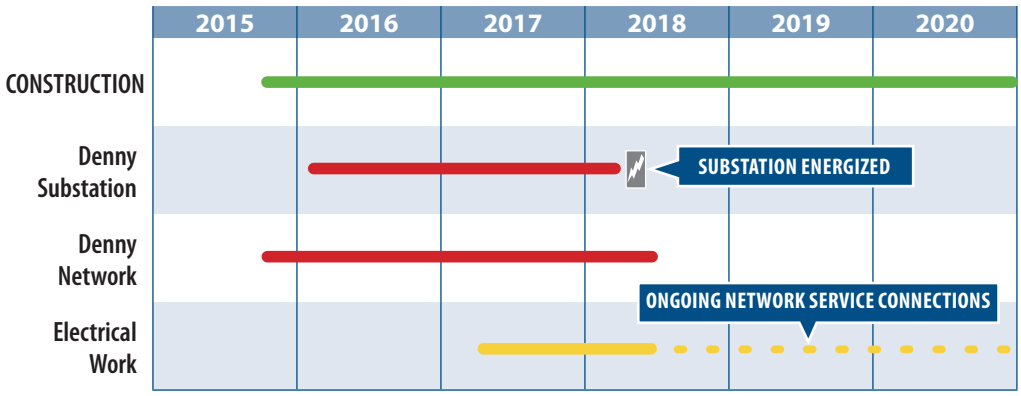
The project area map above illustrates the work areas in Denny Triangle, South Lake Union, and Capitol Hill neighborhoods. To learn about more project details and the schedule of work, check out our interactive construction map: www.seattle.gov.light/dennysub/gismap.asp

Denny Substation and Denny Network Construction Map | Fall 2017



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

SCHEDULE



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