Aspen Environmental Group

5020 Chesebro Road, Suite 200, Agoura Hills, CA 91301-2285
Tel. 818-597-3407, Fax 818-597-8001, www.aspeneg.com

PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: May 31, 2017
Subject: Monitoring Report #17 – May 22, 2017 to May 28, 2017

This report provides a summary of the construction and compliance activities associated with the PG&E Windsor Substation Project which includes the construction of the Windsor Substation, as well as 12 kV distribution line underbuild and reconductoring work (see Exhibit A).

A summary of the Notices to Proceed (NTPs) for construction and Minor Project Change (MPC) activities are provided in Tables 1 and 2, respectively (below).

CPUC Environmental Monitor (EM): Jody Fessler was on site May 26.

Windsor Substation Site

NTP #1 was issued on June 15, 2016 for the Windsor Substation component of the Project, located at 10789 Old Redwood Highway in the Town of Windsor. NTP #1 included conditions that had to be satisfied prior to the start of construction. PG&E was allowed to start vegetation clearing and tree trimming prior to receiving their grading permit from the Town of Windsor. PG&E received the grading and building permits from the Town of Windsor on November 14, 2016. During the 2016/2017 rainy season, heavy rains and saturated conditions precluded construction activities at the Windsor Substation site for the majority of the season.

Summary of Activity:

Construction activities during the subject week included continuing to build the substation pad with the delivery of base rock, spreading and compaction of base rock, and Kleinfelder performing compaction testing. A water truck was used for dust control and to facilitate compaction.

Construction of the switchgear, transformer, and breaker foundations continued and included grading, excavating, installing forms, installing rebar, pouring cement slurry, and stripping forms.

Pier foundation holes were drilled and groundwater was pumped through a filter bag and into the Baker tank. Concrete was poured for the pier foundations and Kleinfelder performed concrete testing and monitored drilling. All holes not poured with concrete were covered at the end of the day with plywood and surrounded by sandbags to prevent wildlife entrapment.

Asphalt was off hauled from the north fence line near the drain inlet, which is protected with BMPs.

Water was pumped from the Baker tank through a filter bag and into the water buffalo and used for dust control in the center of the pad.

On May 25, the crew moved a traffic control sign north on Old Redwood Highway to avoid interfering with a resident's field of view as he exists his driveway.

At the time of the CPUC EM's site visit on May 26, crews were drilling pier holes on the south side of the pad and working on the pier foundations (see Figures 1 - 4).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and nesting bird monitoring May 22 through May 26. BMPs, stormwater ponds, and wetland areas were checked while inspecting the site. Ongoing surveys for special-status species and nesting birds were also performed. No special-status species were observed.

    - The bird nests around the perimeter of the site were monitored each day that construction activities occurred. The Eurasian collared dove and California scrub jay nests were both observed to be in the incubation stage. All work was conducted a minimum of 30 feet from the nests. On May 23, the PG&E EI observed a California towhee nest under construction along the southern fence line, at the eastern boundary of the wetland. The nest is located approximately 35 feet south of the silt fence. As construction activity has been occurring regularly up to the silt fence, the silt fence was designated as the boundary of the buffer. The nest was observed to be in incubation stage on May 24. No disturbance to nesting birds was observed.

    - Since construction activities are underway, PG&E is implementing the following requirements for nesting birds under MM B-4: "Non-special status species found building nests within the standard buffer zone *after specific project activities begin*, shall be assumed tolerant of that specific project activity and such nests will be protected by the maximum buffer practicable (as determined by the qualified biologist). However, these nests shall be monitored on a daily basis by a qualified biologist until the qualified biologist has determined that the young have fledged, are no longer dependent upon parental care, or construction ends within the buffer zone (whichever occurs first). If the qualified biologist determines that the nesting bird(s) are not tolerant of project activity, the standard buffer shall be implemented."

2. Steve Stetson (Aetna) performed a SWPPP inspection on May 25 following non-forecasted showers. He recommended that a fiber roll be installed between the silt fence and boundary fence on the south side. He also recommended that three empty drums be labeled "empty", and that a small pile of asphalt be removed from the site.

3. On May 26, 2017, the CPUC EM observed that the site was neat and clean, and that SWPPP measures were in place. Silt fencing was installed around the wetland areas on the west and south sides of the substation site, and was in good working condition. Environmentally Sensitive Area fencing was also installed around oak trees for protection. Soil piles were covered with plastic and surrounded by fiber rolls, and drainage inlets were protected with fiber rolls and sandbags. Watering of the site for dust control was observed. Traffic control signs were setup along Old Redwood Highway near the substation entrance and exit. The site was in compliance with mitigation measures, Applicant Proposed Measures, and other permit requirements.

12 kV Distribution Line Underbuild and Reconductoring Work

NTP #2 for the 12 kV distribution line underbuild and reconductoring work was approved by CPUC on March 30, 2017. No work under NTP #2 occurred during the subject period.

Notices to Proceed

Table 1 summarizes the Notices to Proceed (NTP) for the Windsor Substation Project.

Table 1
Notice to Proceeds (NTPs)
(Updated 5/31/17)

NTP #	Date Requested	Date Issued	Phase	Description
NTP #1	5/17/16	6/15/16	Windsor Substation	Windsor Substation component of the Project.
NTP #2	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Rebuild a segment of the Fulton No. 1 power line to hold a new double-circuit 12 kilovolt (kV) distribution line underbuild, and reconductoring an existing distribution line along Old Redwood Highway.

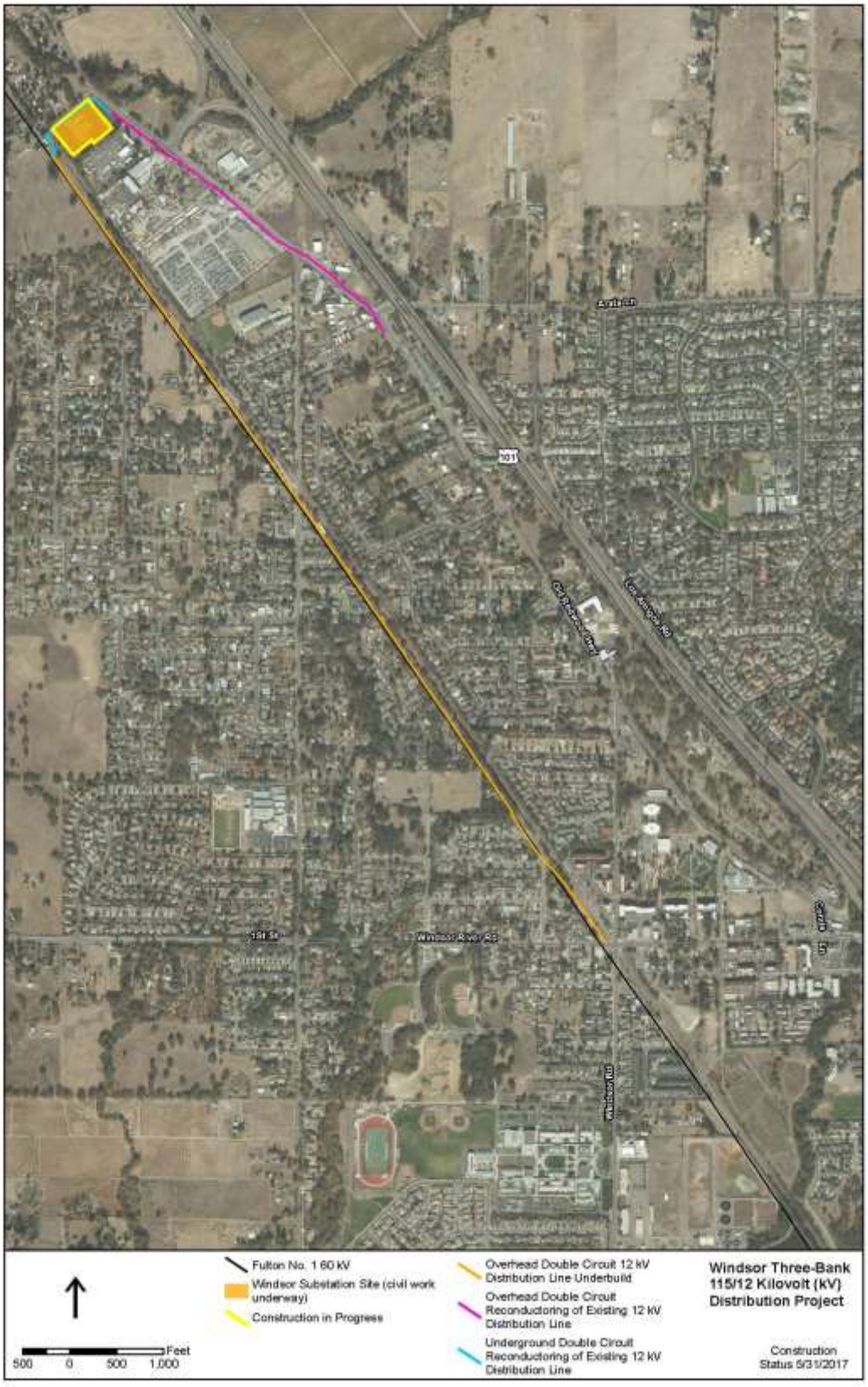
Minor Project Changes

Table 2 summarizes the Minor Project Changes submitted for the Windsor Substation Project.

Table 2
Minor Project Changes (MPCs)
(Updated 5/31/17)

MPC #	Date Requested	Date Issued	Phase	Description
MPC #1	5/17/16	6/15/16	Windsor Substation	Design change to Spill Prevention Control and Countermeasure (SPCC) retention pond and stormwater flow. MPC #1 was incorporated into NTP #1.
MPC #2	5/17/16	6/15/16	Windsor Substation	Use of water truck or driwater pods instead of irrigation system for landscaping. MPC #2 was incorporated into NTP #1.
MPC #3	5/17/16	6/15/16	Windsor Substation	Replacement of culverts in existing roadways entering substation site and Herb Lane. MPC #3 incorporated into NTP #1.
MPC #4	8/11/16	8/19/16	Windsor Substation	Revision of the Conceptual Landscape Plan based on final design and engineering.
MPC #5	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Use of crane staged on SMART tracks to replace certain poles along the Fulton No. 1 Power Line submitted with NTP Request #2.
MPC #6	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Final design and engineering revision to the tubular steel pole (TSP) west of the substation submitted with NTP Request #2.
MPC #7	2/1717	3/30/17	Reconductoring & 12 kV Line Underbuild	Changes to tree trimming and removal due to construction method changes (crane use on SMART tracks) submitted with NTP Request #2.
MPC #8	2/17/17	3/30/17	Reconductoring & 12 kV Line Underbuild	Additional pull and tension site located on Railroad Avenue between Poles a32 and a33 submitted with NTP Request #2.

EXHIBIT A – CONSTRUCTION STATUS



PROJECT PHOTOS

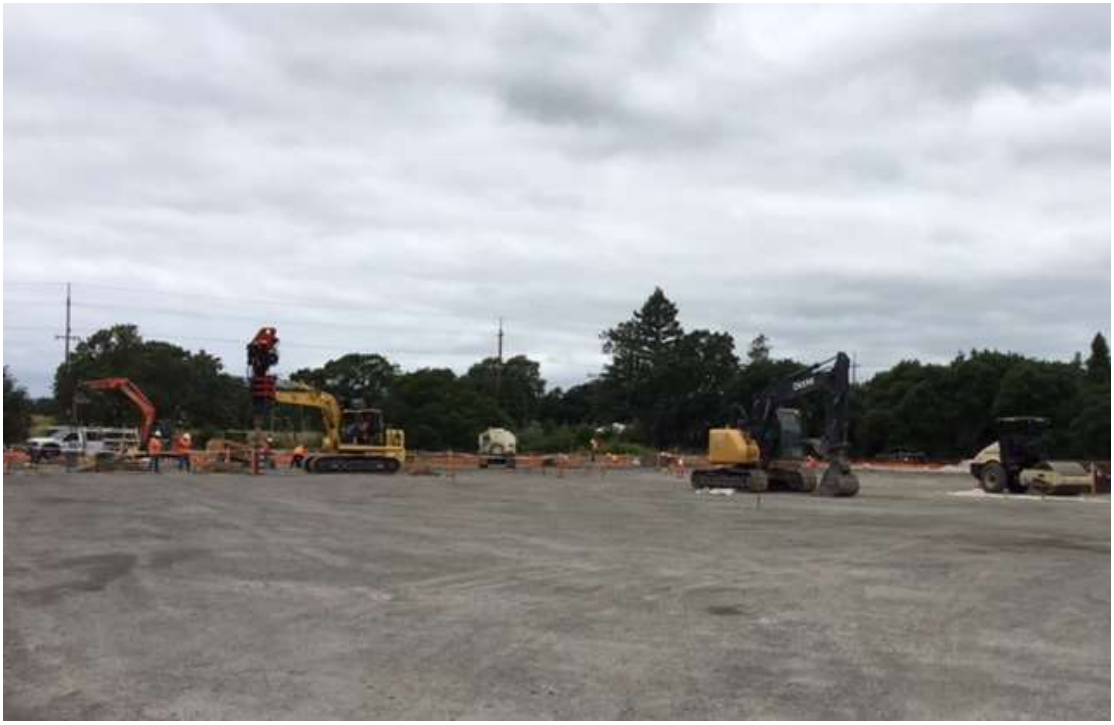


Figure 1 – Substation site and pad – view northwest, May 26, 2017.

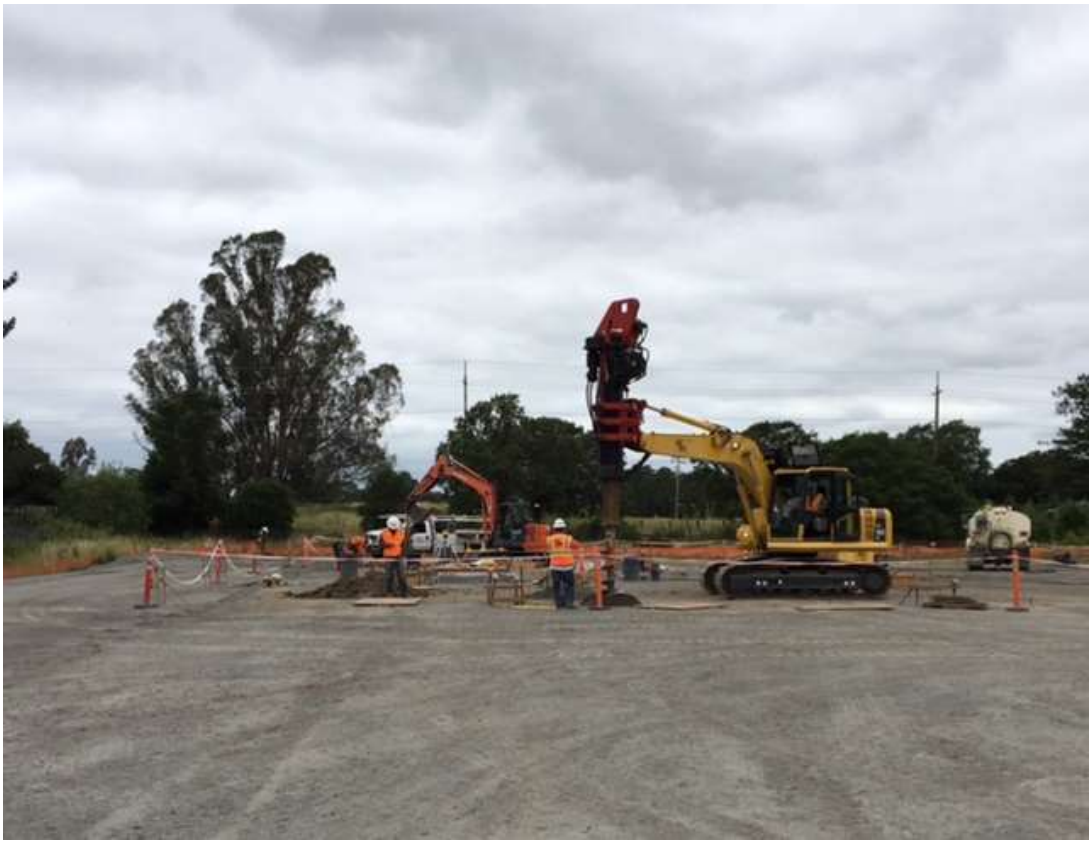


Figure 2 – Drilling pier holes on south side of substation site – view west, May 26, 2017.

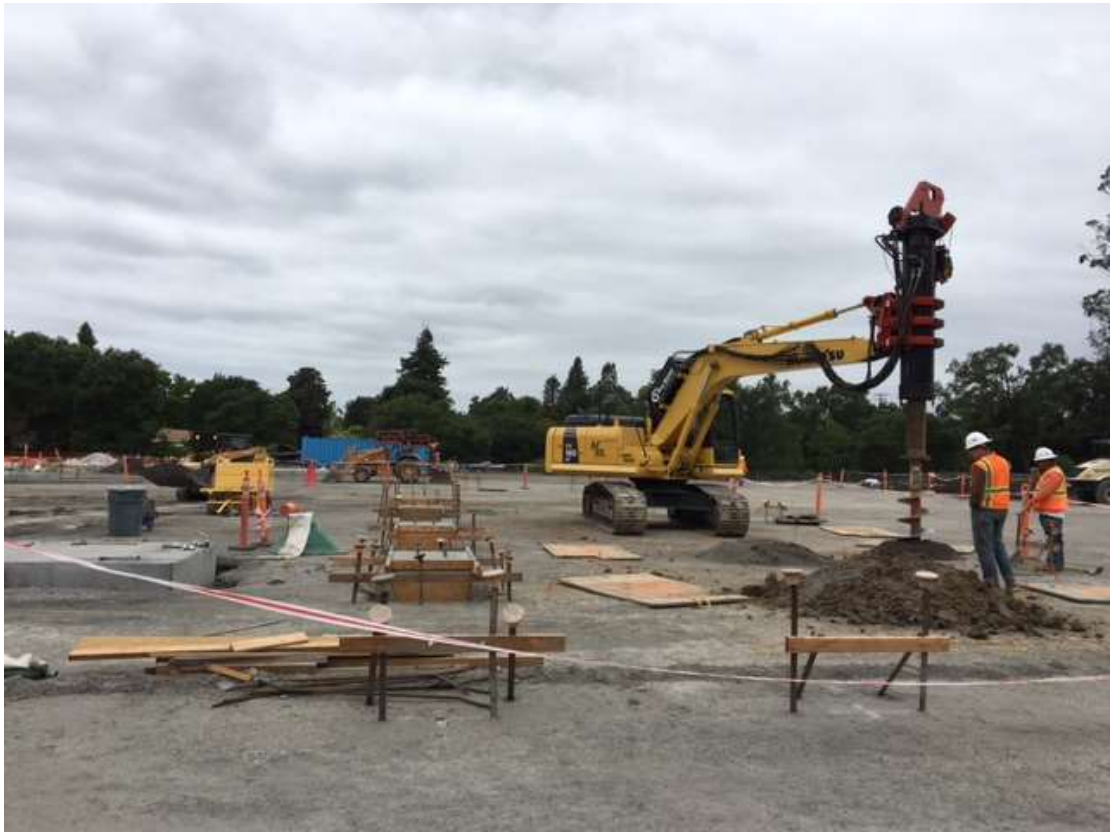


Figure 3 – Drilling pier holes on south side of substation site – view north, May 26, 2017.

Figure 4 – Pier foundation work at south side of substation site – view north, May 26, 2017.