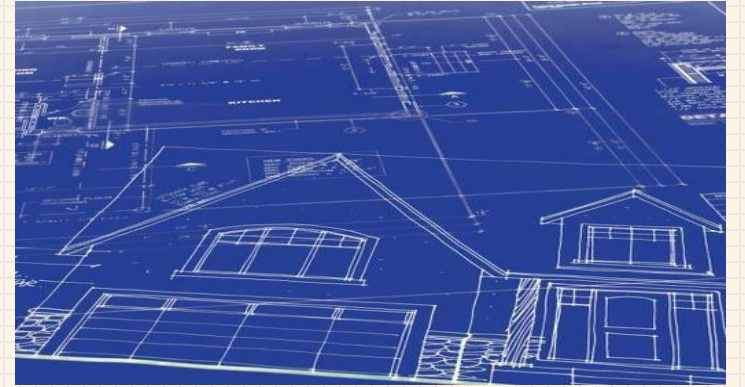


# EV Construction Best Practices



# Pre-Construction Meeting and Inspections

## Pre-Con Meeting

- **Requirements:**
  - Contract Paid
  - Trenching agent to have valid 811 Ticket
  - Trenching agent to have OQ certification if required per OQ Requirements (See "[Operator Qualification Requirements](#)" page for more information)
- **Attendees:**
  - PG&E Inspector
  - Job Owner (Service Planning Rep)
  - Applicant
  - Trenching Agent
- **Scope:**
  - Attendees to review Construction Drawing to discuss requirements to move forward with construction.
  - Discussion Topics:
    - Trench location
    - Trench depth
    - Sand bedding and backfill material
    - Clearance requirements for service trench and riser location
    - Confirm that location of service, riser, and meters will meet all minimum required clearances

# Pre-Construction Meeting and Inspections

## Trench / Conduit Inspection

- **Attendees:**
  - PG&E Inspector
  - Applicant's Trenching Agent with OQ certification (if within 2' of a pressurized gas service or gas main) and valid 811 ticket
- **Scope:**
  - PG&E Inspector to inspect applicant's trench
  - Confirm that an OQ certified trenching agent performed the work
  - Confirm that a valid 811 ticket was obtained before trenching
  - Inspect trench dimensions and depth
  - Inspect sand bedding
  - Advise applicant that adequate backfill will need to be on-site at time of construction
  - Confirm that the work done complies with Greenbook standards and requirements
    - Conduit/Couplings ([Doc 062288](#))
    - End Bells ([Doc 062288](#))
    - Pull Tape, 2500 lb., in conduit (GB Sec 3)
  - If any item is marked "Fail," the item is rejected. Applicant must call for re-inspection once corrections have been made

# Pre-Construction Meeting and Inspections

## Mandrel Inspection

- **Attendees:**
  - PG&E Inspector or PG&E QEW Inspector (A QEW inspector is only needed if mandrel test is to an energized enclosure)
  - Applicant's Trenching Agent with OQ certification (if within 2' of a pressurized gas service or gas main) and valid 811 ticket
- **Scope:**
  - PG&E Inspector to stand-by
  - Applicant to provide pull tape and mandrel
  - Applicant's trenching agent/electrician/contractor to pull mandrel through applicant installed conduit to pole riser or PG&E enclosure
  - If mandrel test fails, applicant must call for re-inspection once corrections have been made

## Panel Inspection

- **Attendees:**
  - PG&E QEW Inspector
  - Applicant's Electrician
- **Scope:**
  - PG&E Inspector to inspect applicants newly installed electrical panel/switchgear/termination section
    - Panel/Switch gear size (ampacity)
    - Test Bypass (if applicable)
    - Meter identification ([GB Sec 5.5.1](#))
    - Meter Height ([GB Sec 5.4.1](#))
    - Panel Conduit (no bends)
    - Panel sealable (all screws + bolts)
    - Cable bushing protector ([Doc 063927](#))
    - Panel/gas line clearance (GB Sec 2-29E)
    - Working space ([GB Sec 5.4.3.](#))
  - Applicant's electrician to be on-site to note any corrections to be made for failed items
  - If any item is marked "Fail," the item is rejected. Applicant must call for re-inspection once corrections have been made

# Pre-Construction Meeting and Inspections

## Final Inspection:

- **Attendees:**
  - PG&E Inspector
  - Applicant or contractor/trenching agent/electrician
- **Scope:**
  - PG&E Inspector to confirm that all applicable items have passed inspections
    - Trench
    - Conduit
    - Mandrel
    - Pad
    - Splice box
    - Vault
    - Panel
  - PG&E Inspector to issue "Clear for Construction" if all applicable inspection items have been passed
  - PG&E Inspector to provide final inspection log to customer and inspection desk
  - Inspection Desk to clear task "PC10" and project is now clear for construction, pending customer readiness

# Construction FAQ

## Construction schedule

❖ When is my construction date confirmed?

Once the Application For Work (AFW) has been approved by Distribution Operator (DO)

❖ What's does “lock-down period” mean?

The point in the construction schedule when all dependencies/inspections must be cleared. \*The lock-down period is the current week plus two additional weeks.

❖ What is typically the construction scheduling lead time?

\*The goal is to have the job built within 4-6 weeks from the time the job is 100% ready for construction (all dependencies cleared).

## Construction

❖ What to expect on the day of your scheduled construction?

- Crew typically has mobilized to the site prior to the day of actual construction.
  - i. Crew working hours
  - ii. Tailboard Elaborate on this
- If crews do not show up call your PGE rep

❖ When can my job be scheduled with construction?

- Jobs can be schedule with construction when they have met the following:
  - Paid contract
  - 100% Ready



# Construction FAQ

- ❖ **What are the switchgear requirements and steps for approval?**
  - [Green Book Section 5.2.2 Drawing Submittal Requirements for Metering and Service Termination Equipment](#). Switchgear reviews/approvals are submitted to the Lead Meter Tech in the respective area through the Job Owner. Customer to submit switchgear submittal to their Service Planning rep.
  - Dual-socket required for meter panels larger than 400A @ 277/480V and for larger than 1,000A @ 120/208V. See [Table 10-3 Greenbook](#) and EUSERC reference drawing# 333.
- ❖ **How far in advance can I get confirmation that the LL/anchor store is impacted by the clearance?**
  - \*PG&E is required to provide at least 10 days advance notice.



\*All timelines and schedules may vary and is subject to weather changes and/or emergency needs.