



MONTEREY CONFERENCE CENTER RENOVATION

MONTEREY, CA

SDI Scope

- PT Slab Opening
- Beam Strengthening with External PT
- Post-Tension Repair
- New PT Installation

Contractor

Stronghold Engineering, Inc.

Owner

City of Monterey



Project Description

The Monterey Conference Center Renovation addresses improvements for present needs and future sustainability. Renovation includes a more flexible and usable meeting space, upgraded tech systems, ADA compliance modifications, and resource efficiency modifications to meet or exceed LEED certification requirements. The \$60 million renovation project was fully funded by Monterey city hotels and motels through Conference Center Facilities District (CCFD) bonds. The project broke ground in 2015 and was completed in 2017.



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SDI'S SCOPE OF WORK

Install new ½" diameter strand for elevated slab and beam:

- Furnish all post-tensioning materials (encapsulated anchorage system).
- Furnish post-tension field installation drawings, including friction loss calcs.
- Supply of labor, supervision, and equipment for fabrication, installation, and stressing of strand.

Strengthening of concrete beam with external post-tensioning:

- Furnish and install steel brackets for end anchorages and mid span deflectors.
- Core drill existing beam.
- Epoxy grout weldments.
- Furnish, install, and stress post-tensioning tendons.
- Furnish, pour, and finish high-strength grout and concrete, including associated forming.

De-tensioning and re-anchoring 58 existing post-tensioned tendons on side of slab opening:

- Shore adjacent span where required for de-tensioning.
- De-tension existing tendons.
- Furnish, install, and stress post-tensioning anchors.
- Local demolition, forming, and pourback as required to re-anchor tendons.

Repair damaged strands in the slab:

- Furnish and install splice coupler to stressing anchor.
- Install and stress new ½" strand between new anchors.
- Local demolition, forming and pourback as required for new coupler placement.

PROJECT HIGHLIGHTS AND FACTS

- Challenges include congestion with the new post-tension installation (slab and beam).
- External post-tensioning (unbonded tendons):
 - Capping grout into HDPE pipe without stressed tendons for fire protection.
 - Difficult stressing access over staircase; end anchorages close to ceiling.

