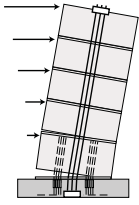


# HYBRID PRECAST WALL SYSTEMS

## FOR SEISMIC REGIONS



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October 13, 2008

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### Industry Meeting Resolutions

Meeting Date: October 3 and 6, 2008

Meeting Venue: PCI Annual Convention, Orlando, FL

In Attendance: N. Hawkins, W. Korkosz, K. Baur, D. Schneider, M. Zvorsky,  
R. Sause, Y. Kurama, B. Smith

The following resolutions have been made based on the meeting:

#### *Prototype Wall Design*

- The production drawings for the first test specimen were reviewed with consideration of the construction of the unscaled prototype wall based on the scaled specimen details. It was concluded by the advisory panel that the design was reasonable for construction in practice.

#### *Test Specimen Design*

- Consideration will be given to prevent delamination of the cover concrete and welded wire fabric within the base wall panel, which may cause a buckling failure of the confined concrete region. Within the design procedure document, a maximum PT duct-to-wall thickness ratio as well as a minimum distance from the edge of the outermost PT duct to the end of the wall will be specified to prevent buckling failure of the confined region.

#### *Test Specimen Details*

- The PT strands will be anchored using individual steel barrel anchors instead of the Dwyidag flat anchorage (FA) system in order to maximize the unbonded length of the PT strands and minimize the complexity of the specimen production forms. This will also allow for the same type of anchors to be used at the live (top) and dead (bottom) ends of the strands.

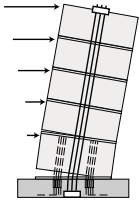
#### *Future Test Specimens with Wall Panel Openings*

- The unscaled size of the wall panel openings in future test specimens will be approximately 4-feet wide by 6-feet tall. There will be two openings placed symmetrically within the base panel. The panel openings will start approximately 3-feet from the base of the panel and approximately 3-feet from the panel ends.

This project is funded by the Charles Pankow Foundation and the Precast/Prestressed Concrete Institute. Any opinions, findings, conclusions, and/or recommendations expressed in this material are those of the researchers and do not necessarily represent the views of the sponsors.

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### *Foundation Beam Design*

- The vertical joints between the foundation end blocks and the foundation beam will be match-cast for all of the test specimens. The use of a rubber bearing pad at these joints was eliminated due to the potential for excessive shear deformations of the rubber pad.
- The foundation beam and the foundation end blocks for Specimen 1 will be cast at the same time. After the testing of Specimen 1, the foundation beams and the foundation end blocks for the remaining specimens will be cast at the same time to allow for match-casting of all vertical joints within the foundation.

### *Production Drawings*

- The production drawings for Specimen 1 were reviewed by the advisory panel. Specific changes to the drawings were discussed. B. Smith will complete the final review and mark-up of the drawings within the next two weeks, which includes changes to the PT strand anchorage details at the top of the wall. W. Korkosz will perform the revisions of the production drawings.

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