



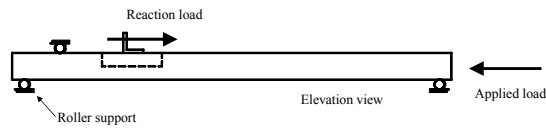
# Corbel Capacity of Channel Embeds

Richard A. DeVries  
Jon Bliese

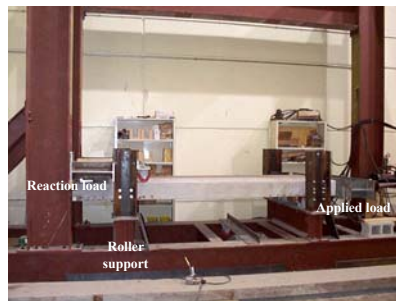
## Test Program

Conduct 8 tests to determine the capacity in concrete planks of channel embeds subjected to corbel loading.

Variables included the length and location of channel embed.



Schematic of test setup



Test Setup



Typical failure at plank end



Typical failure away from plank end



Prestressing strand in anchorage zone



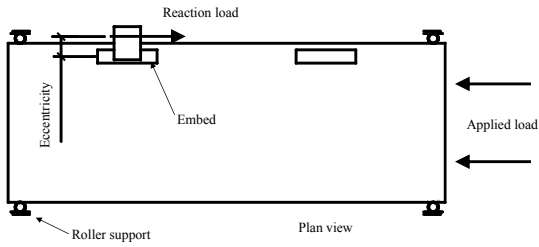
# Anchorage Capacity of Channel Embeds

Richard A. DeVries

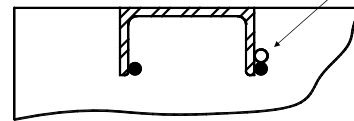
## Test Program

Conduct 48 tests to determine the anchorage capacity in concrete planks of channel embeds subjected to shear and/or tension loads.

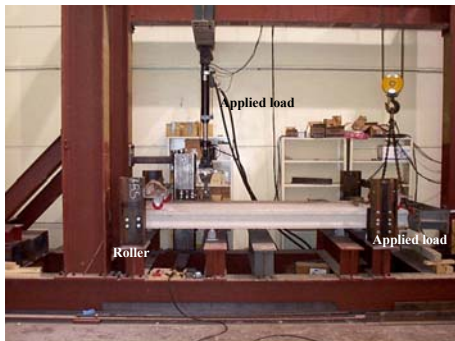
Variables included the eccentricity of applied loads and the effect of a prestressing strand in the anchorage zone.



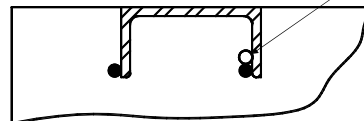
Schematic of test setup



Prestressing strand outside of anchorage zone

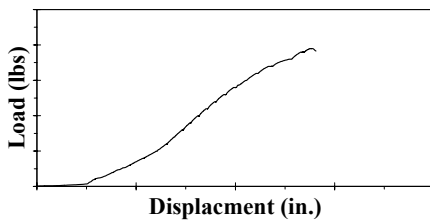


Test setup



Prestressing strand inside anchorage zone

## Typical Load vs. Displacement



## Observations and Results:

- The location of the prestressing strand had a large effect on the anchorage capacity and behavior.
- Capacity interaction between shear and tension load was determined.