STRUCTURAL DESIGN

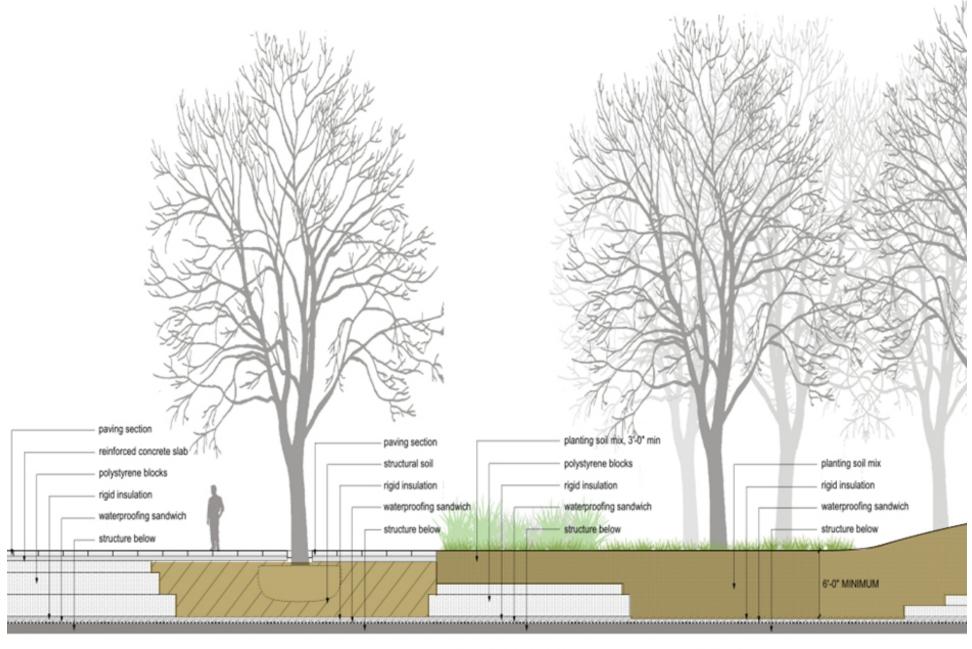
THORNTON-TOMASET Albert Chen, Vice President Transbay CAC October 11, 2011

Roof Park



5.5 acres Average 3 feet of soil Approximately 55,000 tons





PAVING

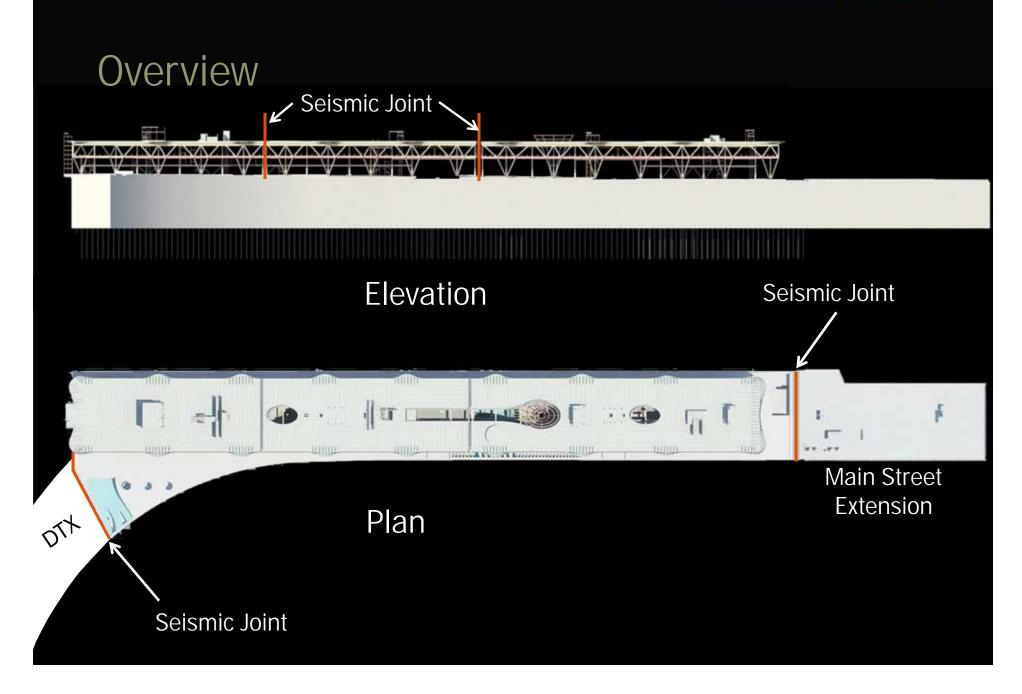
TREE IN PAVING

SHRUB AND GRASS PLANTING

TREE PLANTING

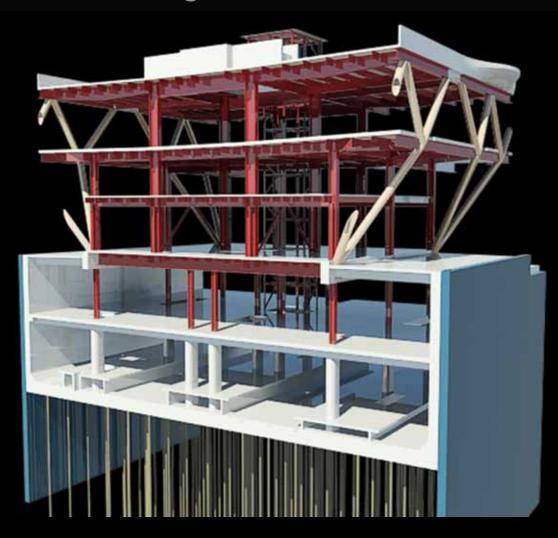
Seismicity





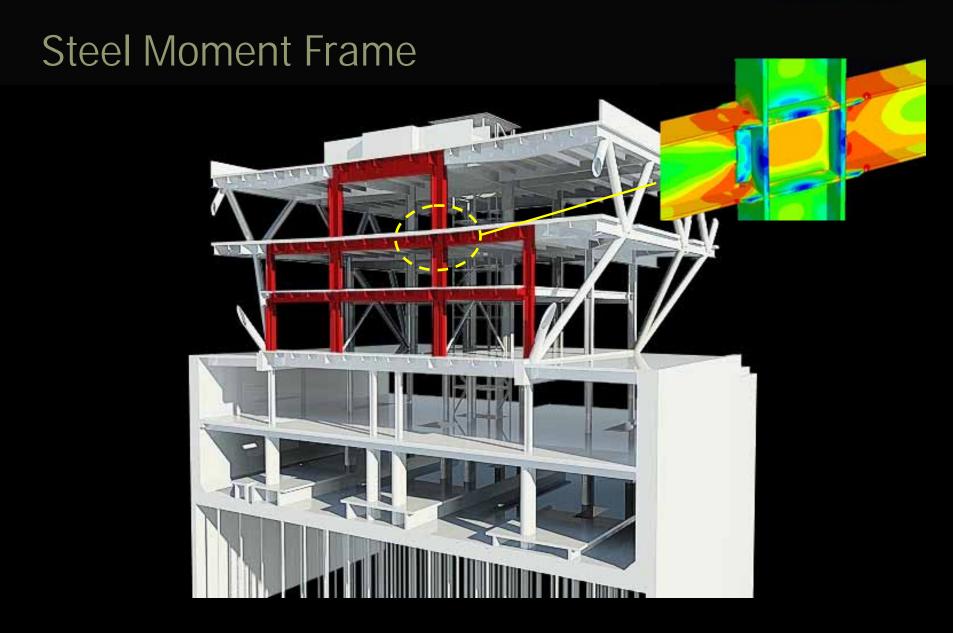


Structural Framing



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t1	Do not animate
	ttuser, 9/21/2011



Moment Frame Test Setup

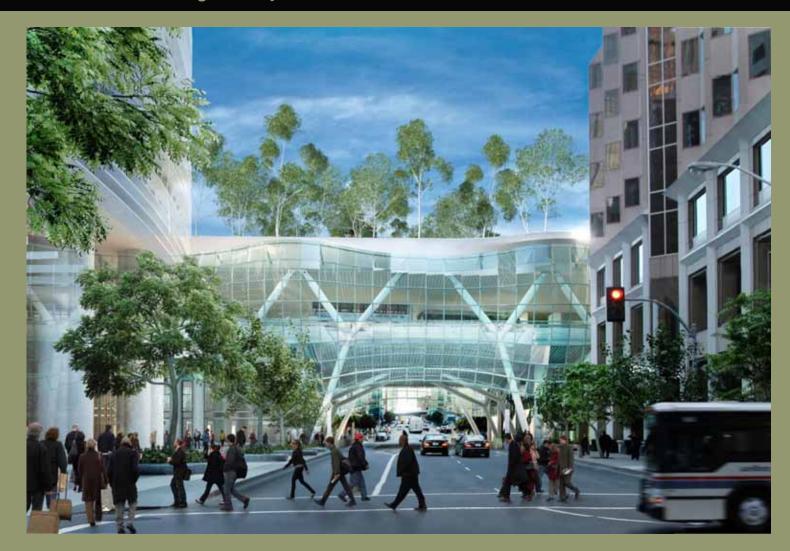




Moment Frame Test Setup

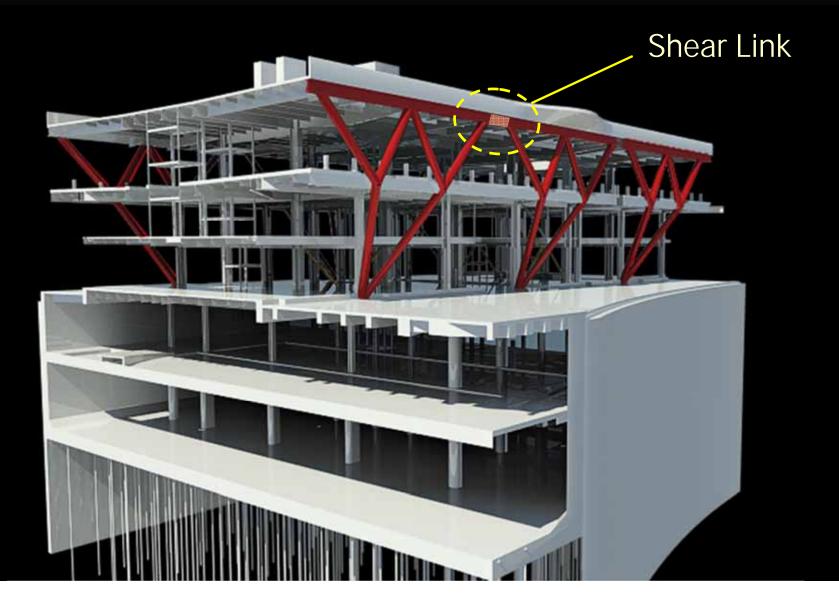
1.5 Percent 2 Cycles

Architecturally Expressive Structure



Courtesy of TJPA

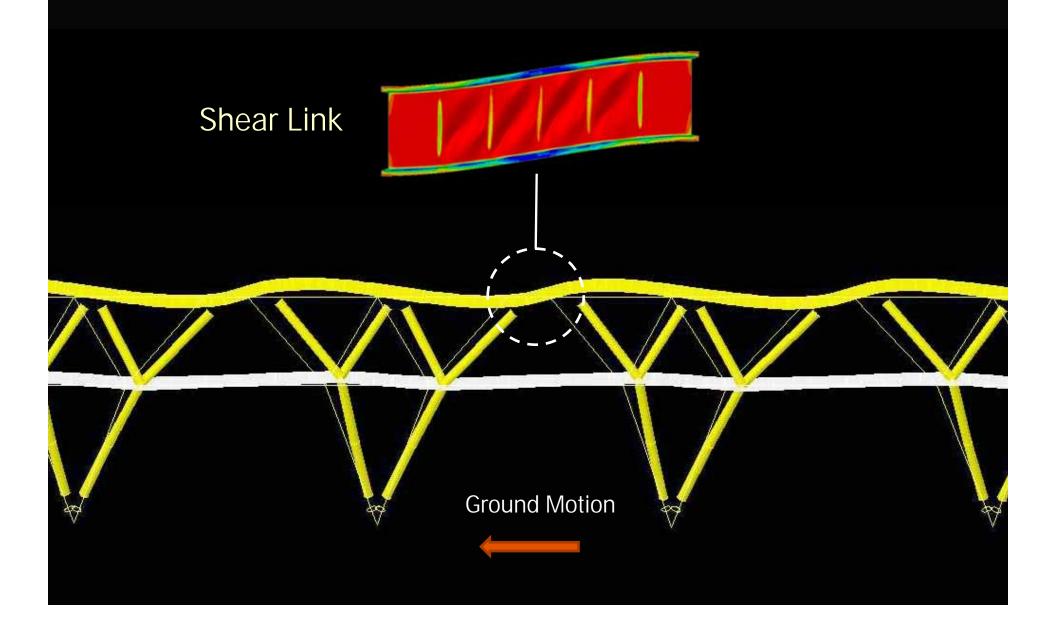
Eccentric Braced Frames





Eccentric Braced Frames

B1



B1 can we do a better graphic of this showing the frames of our model rotating? BGibbons, 9/15/2011

EBF Test Results: Deformed Configuration

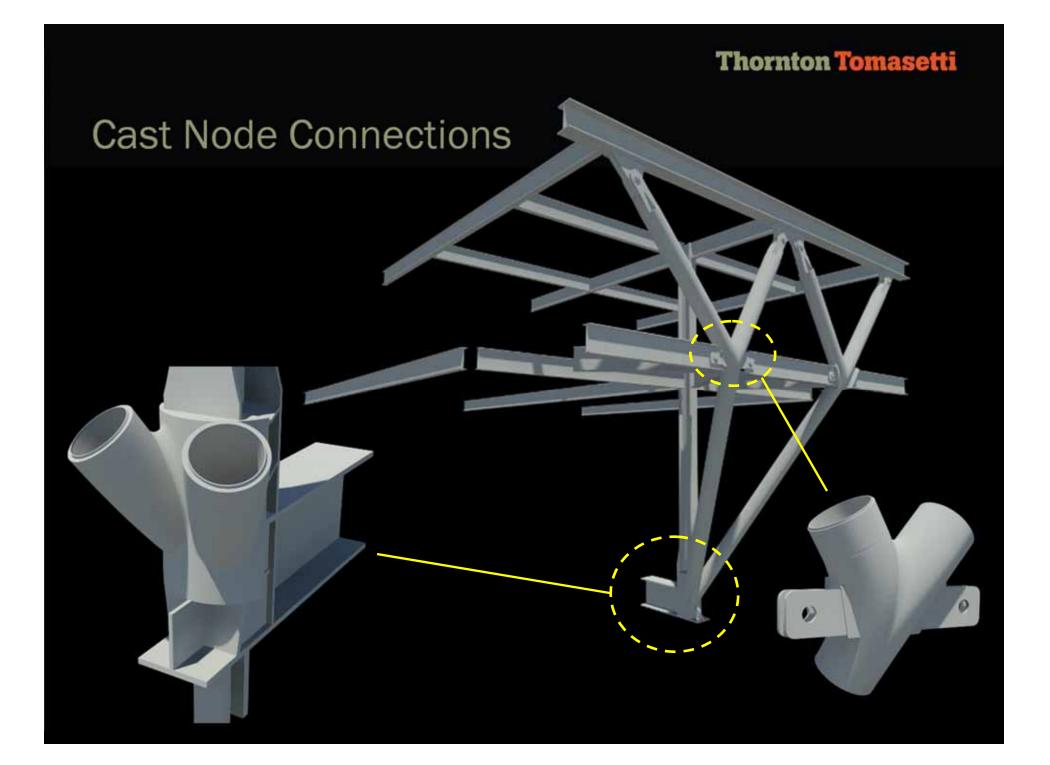


at $\gamma_{total} = +0.08$ rad.



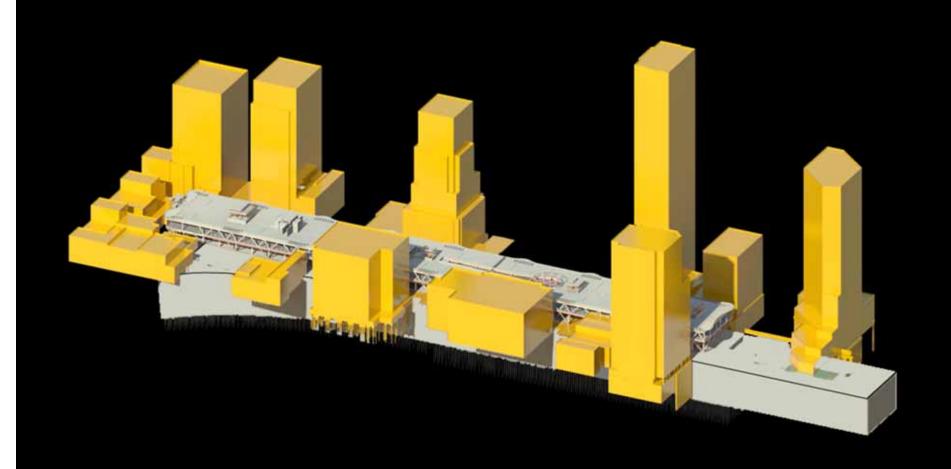
at γ_{total} = -0.08 rad.

Image s courtesy of UCSD

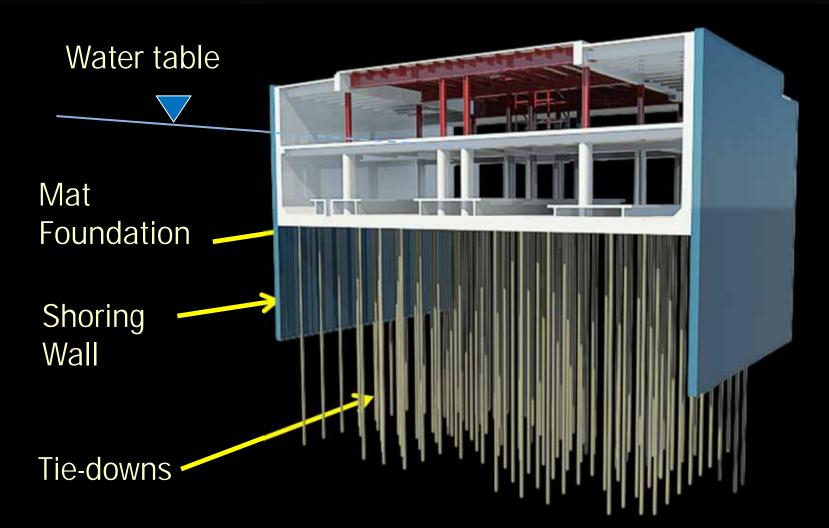




Adjacent Buildings



Shoring, Foundation & Train Box



Slide 16

- **B2** animate this slide to sequentially show:

 - shoring walls
 Mat slab (& shoring)
 - 3. Lower concourse and columns
 - THEN ON A NEW SLIDE:
 - 4. Steel frame & concrete ground floor slab
 - 5. Steel superstructure

SHOW SHORING WALLS IN SAY BLUE, CONCRETE IN GREY; STEELWORK IN RED PRIMER BGibbons, 9/15/2011



t2

Slide 17

t2	Do not animate		
	ttuser, 9/21/2011		