Overall Performance

- Originally constructed ca. 1931-1932
- Detailed structural analysis including 3-D structural modeling
- Development of phased strengthening concepts
Spandrel Strengthening

- Strengthening can be completed from the inside only, with no impact on exterior or on building’s historic fabric.
Steel Plate Shear Walls

• Similar to what was used in the construction of LA Live.

• Thinner and lighter than more conventional concrete shear walls.

• Can be constructed with access from one side only without impacting existing historic/sensitive finishes.
Steel plate shear walls will be placed below tower corner walls on 2nd floor through 4th floor and most of 1st floor, providing full height continuity.

Steel plate shear wall will replace existing non-bearing partitions and can be constructed from office sides or inside elevator shafts to minimize impact on historic architectural fabric on the 2nd floor rotunda and other sensitive finishes.
Steel Plate Shear Walls

- Flexibility in placement of the new walls to minimize Architectural and historic impact.