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LOTUS TOWER

For the civil engineering senior design project at The Cooper Union (CE-363 and CE-364), the team fully designed a feasible building on an empty lot in New York City with all aspects of design and construction.

The work includes the final design of "The Lotus Tower", which would consist of restaurants, retail, and office spaces from the 1st floor to 4th floor and high-end residential space from the 5th floor to 40th floor, featuring organic architecture inspired by lotus flower. Team also developed the Environmental Impact Statement (EIS), structural framing plans, structural calculations, a foundation plan, a green roof plan, a drainage system, a sprinkler system, architectural plans, cost analysis based on a complete schedule of materials and quantities, and proposed a construction schedule for the finalized project.

