Subject: ENGR 425 Reinforced Concrete Structures Project Assignment
Last Submittal: 5/19/2014

Requirement:
- A 2-story parking garage structure is to be built in the Bay Area, which 200-ft x 320-ft site is given…
- The design of the reinforced concrete shall confirm ACI 318-08.

Recommended steps:
1. Visit a parking garage of your choice. Document the slab system, the dimension of beams, columns, and span lengths.
2. Study the architectural plans for the parking garage you will design.
3. Set up the design dead load and live load.
4. Layout the foundations. (The allowable bearing pressure on the soil is 4000 psf)
5. Design the columns, beams, one-way slabs and foundations.
6. Draw the details of the members mentioned above.

Following is a list of material to be submitted:
- Dimension of the parking garage.
- Architectural plan.
- Design Dead load & live load.
- Typical columns and beams design.
- Slabs and footings design.
- Calculations to justify your designs.
- The final report.