

**QUESTIONS AND ANSWERS
SK8 PARK STRUCTURAL FOUNDATION REPAIRS
2020-010**

1. Drawing S100 - Structural Piling Note 1 - Can the designed helical pier be reduced to a less expensive 2.875" inch pier that we believe can handle the specified load of 10 kips?

Answer: Yes. The helical pile diameter can be reduced. Submit alternative size and manufacturer's details and specifications.

2. Should galvanized piers for corrosion protection be used at this location?

Answer: The geotechnical report did not address the potential of a corrosive environment present at this site. We're not aware as to whether or not the structural design (Foundation Details, Sheet S301) accounts for corrosion protection. However, given the presence of buried construction debris, Holocene era marine clays, and the necessity of these piles to extend below the groundwater level to develop adequate capacities, it may be prudent to include a margin of sacrificial steel, coating or encase the piles in grout to extend the design life of the structure.

3. Should helical piers be ICC certified?

Answer: Yes. See Addendum 3

4. Is there flexibility to move the piers slightly outside of the stairs due to headroom constraints, debris, or existing grade beams could perhaps save stair demolition costs and provide some flexibility for other items? If a maximum pier spacing allowed for the grade beam loading and design could be specified that that would allow some flexibility to make adjustments in the field easier and less complicated.

Answer: Yes. Maximum spacing for helical piles is 9 feet on center.

5. As implied in item 4 above, is there flexibility in the 3" deviation applied to driven piles on the building (reference Note 4 under Structural Piling Notes)?

Answer: Yes. Maximum deviation is 6 inches from center of pile location per design drawings.

6. Is CCPRC to provide Geotechnical Report to identify such things as the location of the Cooper Marl?

Answer: The geotechnical report for this site encountered the Cooper Marl between 44 and 47 feet from the pre-construction ground surface at borings drilled on the south and north ends of the property, respectively.

7. Is it necessary for helical anchors to extend into the Cooper marl?

Answer: Depth of the helical pile is per geotechnical recommendations. A value engineered deep foundation design shall satisfy the applicable sections of IBC 2012.

8. Just confirming is “pre-augering” acceptable in installing these piers? There is known to be significant debris that could be encountered and also existing utilities to be aware of.

Answer: Means and methods of penetrating buried debris and protecting existing structures is determined by the contractor. The geotechnical report cites driving piles and pre-augering as being difficult; however, sheet S200 of the design drawings references existing PSC piles.

9. Should ground penetrating radar be specified to gain info on what might be found in drilling?

Answer: Means and methods of protection of existing structures is determined by the contractor.

10. I noticed on page S200 in the notes that it refers to S301 for the helical piles. Does S301 pertain to this scope? If so could you please provide the plans

Answer: The notation of sheet S301 is a typo and incorrect and should be deleted as the section and information is shown on sheet S200. There is no sheet S301. See Addendum 3

11. Will CCPRC hire a firm to perform the materials testing and special inspection services or will this be the responsible of the awarded contractor?

Answer: Contractor to hire/coordinate 3rd party inspections under construction bid, consultant entity shall be named at time of bid.