

## **1 General**

### **1.1 RELATED SECTIONS**

- .1 Section 03 30 10 – Concrete Work

### **1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CAN/CSA G40.20/G40.21-, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
  - .2 CAN/CSA-S16-, Limit States Design of Steel Structures.
  - .3 CSA W47.1-, Certification of Companies for Fusion Welding of Steel Structures.
  - .4 CSA W48-, Filler Metals and Allied Materials for Metal Arc Welding.
  - .5 CSA W59-, Welded Steel Construction (Metal Arc Welding).

### **1.3 DESIGN REQUIREMENTS**

- .1 Design steel helical piles to support the vertical loads show on the plan.

### **1.4 SHOP DRAWINGS**

- .1 Submit shop drawings in accordance to Section 01 33 00- Submittal Procedures, showing all details including the length, size and wall thickness of shaft, spacing and diameter of helix, and dowels to the grade beam.
- .2 Shop drawings to be sealed by a professional engineer registered in the Province of Saskatchewan.

## **2 Products**

### **2.1 MATERIALS**

- .1 Structural steel: to CAN/CSA-G40.20/G40.21
- .2 Welding materials: to CSA W59 and certified by Canadian Welding Bureau.

### **2.2 FABRICATION**

- .1 Fabricate steel in accordance with CAN/CSA-S16 CAN and in accordance with reviewed shop drawings.

## **3 Execution**

### **3.1 GENERAL**

- .1 Company installing the piles to be have minimum 2 years experience installing helical piles.

### **3.2 FIELD QUALITY CONTROL**

- .1 Work subject to inspection by the consultant on behalf of the owner.

**END OF SECTION**