**305mm Prestressed Concrete Pile**

**Typical Section A-A**

- **Concrete Pile** EL 175 2500
  - **Concrete Pile Strength**: $f'_c = 34.5$ MPa
- **Build-Up Concrete Pile**: EL 175 2500
  - **Concrete Pile Strength**: $f'_c = 51.7$ MPa
- **Prestressed Concrete Pile**: EL 175 2500
  - **Concrete Pile Strength**: $f'_c = 51.7$ MPa

**Steel Pile Tip Details**

- **Plate and Sheave Bolts** must meet the requirements of ASTM A207 Grade 250. Threads of the sheave bolts must be lubricated at the face of the nut.
- **Sheave Bolts** shall be easy to slide on the sheave and plate to be placed.

**Reinforcement Details**

- **5 Layers** shall be placed at the tip of the pile to resist shear forces.
- The shear reinforcement is designed to prevent rotational failure at the pile tip.
- The longitudinal reinforcement shall be installed in the annular gap between the steel plate and concrete pile.

**Dowel Installation for Optional Build-Up**

- **Group Compressive Strength**: $f'_c = 34.5$ MPa

**Notes**

- The steel plate and concrete pile shall be reinforced with stirrups and hoops as required by the engineer.
- The concrete must be cast in accordance with the specifications provided by the engineer.