HELICAL PILE GENERAL NOTES

HELICAL PILES

1. HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE CURRENT INTERNATIONAL BUILDING CODE (IBC) ADOPTED BY THE LOCAL JURSIDICTION.

2. HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED BY RAM JACK OR APPROVED EQUAL.

3. HELICAL PILE SHALL BE RECONGNIZED BY ICC AND THE MANUFACTURER SHALL HOLD A CURRENT ICC-ES ESR REPORT SHOWING COMPLIANCE WITH AC358 AND CURRENT INTERNATIONAL BUILDING CODE (IBC) ADOPTED BY THE LOCAL JURSIDICTION.

4. DIMENSIONS OF THE CENTRAL SHAFT AND THE NUMBER, SIZE, SPACING AND THICKNESS OF THE HELICAL BEARING PLATES SHALL BE DESIGNED AND FABRICATED TO SUPPORT THE SPECIFIED DESIGN LOADS.

5. ONLY ROUND CENTRAL PILE SHAFTS WILL BE ALLOWED.

6. MINIMUM AND MAXIMUM INSTALLATION TORQUES SHALL BE SPECIFIED BY THE HELICAL PILE MANUFACTURER. THE MINIMUM INSTALLATION TORQUE SHALL BE HIGH ENOUGH TO ACHIEVE THE REQUIRED BEARING CAPACITY, INCLUDING A SAFETY FACTOR OF 2. THE MAXIMUM INSTALLATION TORQUE SHALL NOT EXCEED THE ALLOWABLE TORSIONAL CAPACITY OF THE PILE SHAFTS.

7. HELICAL PILES SHALL BE DESIGNED AND MANUFACTURED TO RESIST ALL STRESSES INDUCED BY INSTALLATION.

8. EXISTING CONDITIONS AND UNDERGROUND OBSTRUCTIONS SHALL BE CONFIRMED BY THE PILE INSTALLER. PROBING OR SCANNING MAY BE NECESSARY TO LOCATE UNDERGROUND OBSTRUCTIONS. REPORT ANY UNFORSEEN OBSTRUCTIONS TO THE STRUCTURAL ENGINEER.

9. LOCATIONS OF PILES SHALL NOT BE CHANGED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

10. SPECIAL INSPECTION OF THE HELICAL PILE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.10 OF THE 2009 & 2012 IBC OR SECTION 1705.9 OF THE 2015 IBC UNLESS EXCEPTIONS NOTED IN SECTION 1704.2 OF IBC ARE MET. THE INSPECTOR SHALL RECORD THE FOLLOWING:

    A. INSTALLATION DATE.
    B. PILE MANUFACTURER.
    C. INSTALLATION CONTRACTOR.
    D. IDENTIFICATION OF INSTALLATION EQUIPMENT.
    E. MINIMUM ALLOWABLE INSTALLATION TORQUE.
    F. MAXIMUM ALLOWABLE INSTALLATION TORQUE.
    G. CENTRAL SHAFT DIAMETER OF EACH PILE.
    H. HELIX PLATE CONFIGURATION OF EACH PILE.
    I. ACTUAL TIP EMBEDMENT OF EACH PILE.
    J. ACTUAL INSTALLATION TORQUE OF EACH PILES.
    K. ULTIMATE CAPACITY OF EACH PILE AS SPECIFED BY MANUFACTURER.
    L. ALLOWABLE CAPACITY OF EACH PILE AS SPECIFIED BY MANUFACTURER.