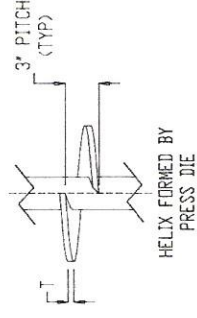
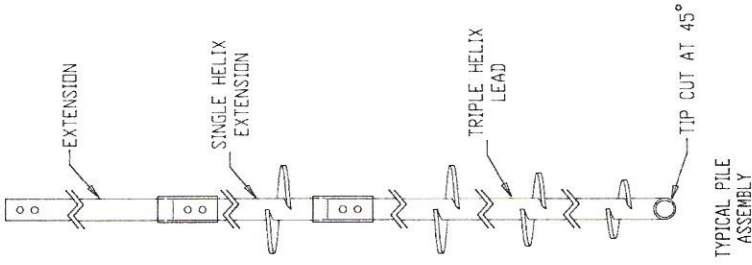
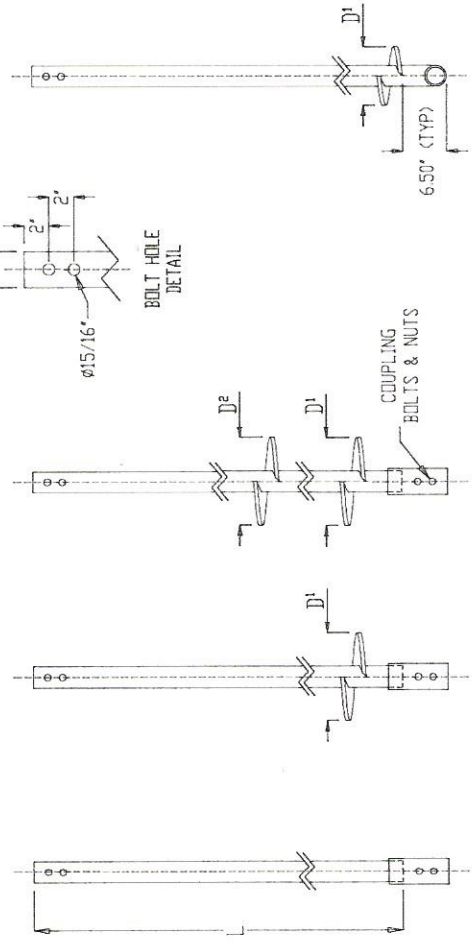
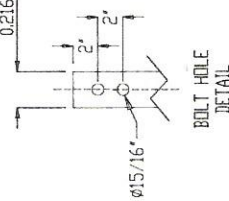


MAXIMUM TORQUE NOT TO EXCEED 13,000 FT LBS.  
 ULTIMATE CAPACITY IS 91 KIPS BASED ON A CAPACITY TO  
 TORQUE RATIO OF  $K_t = 7 \text{ ft}^{-1}$ .

# 3 1/2" O.D. X 0.216" W.T. HELICAL LEADS & EXTENSIONS ICC-ES AC358 - REPORT # ESR-3750

3 1/2" O.D. X  
 0.216" W.T.



**NOTES:**

1. SHAFT TO MEET OR EXCEED REQUIREMENTS OF ASTM A500, 80 KSI.
2. HELIX TO MEET OR EXCEED REQUIREMENTS OF ASTM A572/A1018/A656, 50 KSI.
3. ALL HELICES ARE FORMED BY PRESS DIE. LEADING EDGE OF HELICES ARE TAPERED TO IMPROVE INSTALLATION CAPABILITIES.
4. HELIX SPACING IS THREE (3) TIMES THE DIAMETER OF THE LOWER HELIX. SPACING OF LEADING HELIX ON FLIGHTED EXTENSIONS IS THREE (3) TIMES THE DIAMETER OF THE LAST HELIX ON THE PRECEDING SHAFT.
5. STANDARD HELIX DIAMETERS ARE 8", 10", 12", & 14". STANDARD HELIX THICKNESS IS 3/8" OR 1/2".
6. ALL WELDING TO BE PERFORMED BY SHOP QUALIFIED WELDORS TO AWS D11 STRUCTURAL WELDING CODE - STEEL.
7. HOT DIP GALVANIZING PER ASTM A153/ASTM A123.
8. (2) 3/4" DIAMETER X 5 1/2" LONG GALVANIZED HEAVY HEX BOLT PER ASTM A325 AND (2) 3/4" GALVANIZED HEAVY HEX NUT PER ASTM A194 (GRADE 2H).
9. HELICAL PILE ASSEMBLIES MANUFACTURED IN ACCORDANCE WITH ICC-ES AC358 (IDEAL REPORT #ESR-3750) ACCEPTANCE CRITERIA FOR HELICAL FOUNDATION SYSTEMS AND DEVICES.

**IDEAL PART # ABBREVIATIONS:**

- 312 = SHAFT DIAMETER
- 216 = SHAFT WALL THICKNESS
- EXT = EXTENSION
- FE = FLIGHTED EXTENSION
- SH, DH, TH, QH = SINGLE, DOUBLE, TRIPLE, OR QUAD. HELIX
- L = SHAFT LENGTH IN FEET (EXAMPLE: 7' = 7)
- D = HELIX DIAMETERS IN INCHES (EXAMPLE: 10" = 10)
- X = X (SEPARATES HELIX DIAMETERS) AND HELIX THICKNESS
- T = HELIX THICKNESS (EXAMPLE: 1/2" = 12)
- G = GALVANIZED



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