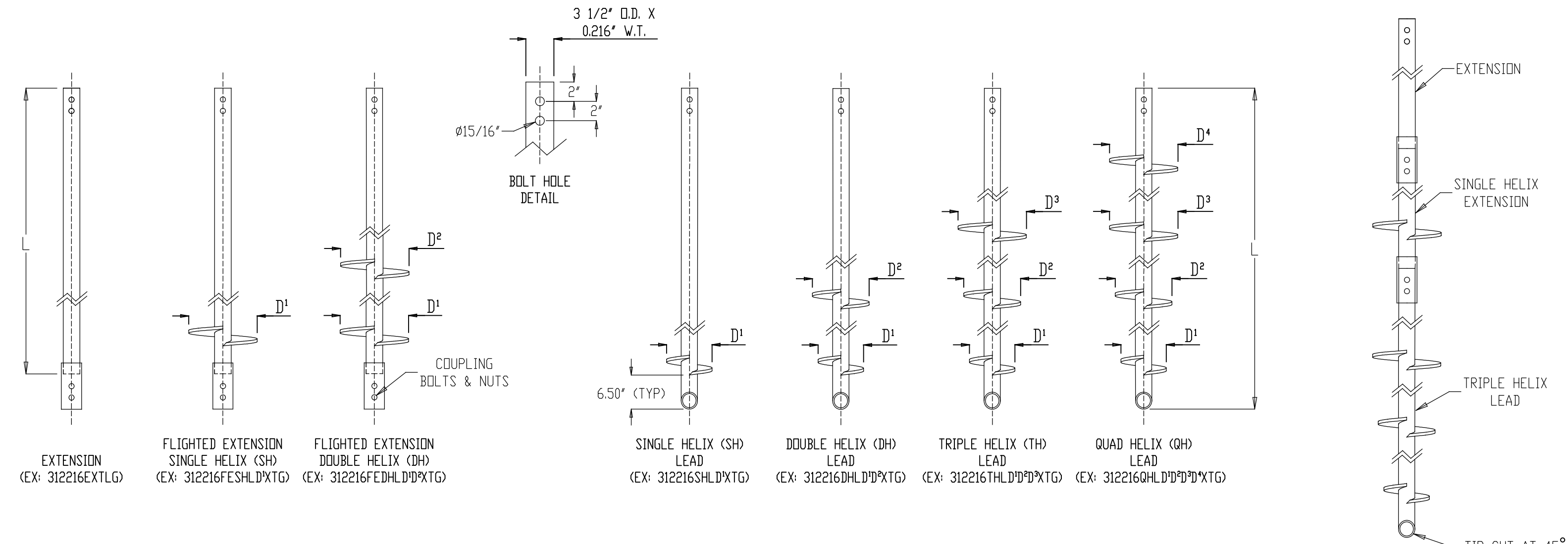


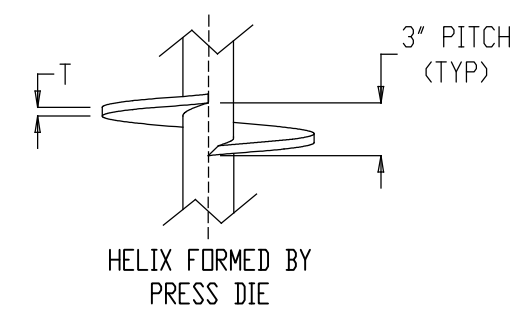
MAXIMUM TORQUE NOT TO EXCEED 13,000 FT LBS.
 ULTIMATE CAPACITY IS 91 KIPS BASED ON A CAPACITY TO
 TORQUE RATIO OF $K_t = 7 \text{ ft}^{-1}$.

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



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 PRECEEDING 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 D1.1 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 DIAMETER(S) IN INCHES (EXAMPLE: 10" = 10)
 X = X (SEPARATES HELIX DIAMETER(S) AND HELIX THICKNESS)
 T = HELIX THICKNESS (EXAMPLE: 1/2" = 12)
 G = GALVANIZED

IDEAL Group

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DRAWN BY: DSS	DATE: 06/26/17	Rev: DD NOT SCALE DRAWING

SHEET 1 OF 1