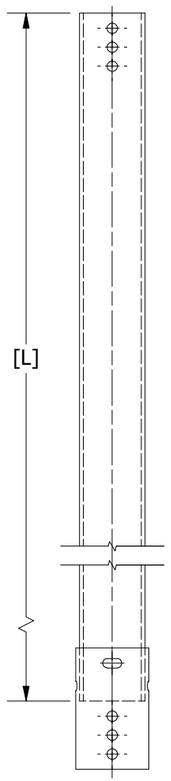
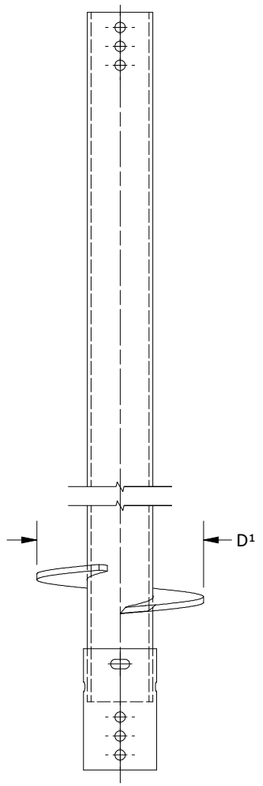
MAXIMUM TORQUE NOT TO EXCEED 125,000 FT-LBS.
ULTIMATE CAPACITY IS CALCULATED BASED ON THE SITE-SPECIFIC SOIL PROFILE.

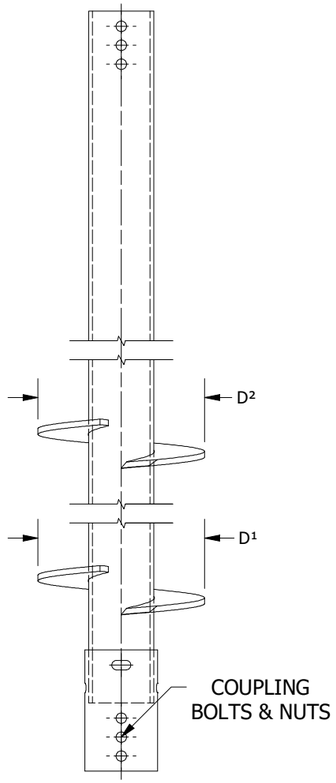
8 5/8" O.D. X 0.500" W.T. HELICAL LEADS & EXTENSIONS



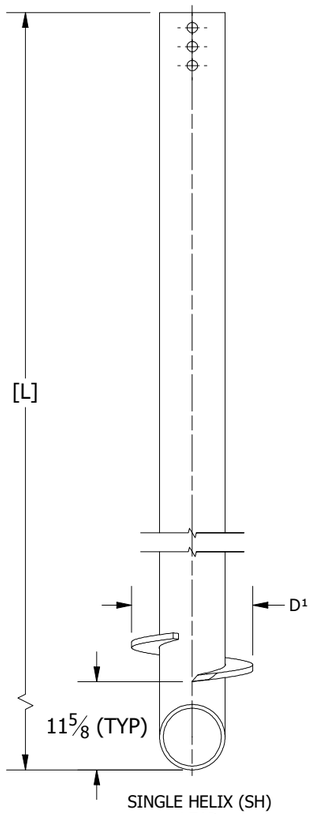
EXTENSION
(EX: 858500EXT[L])



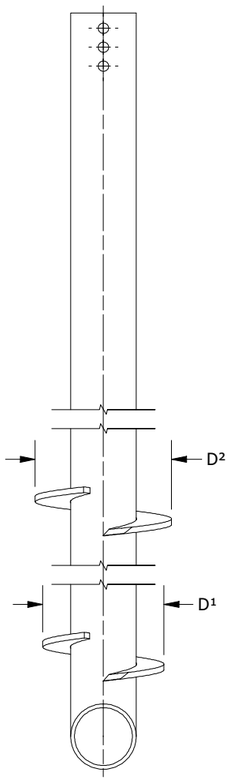
FLIGHTED EXTENSION
SINGLE HELIX (SH)
(EX: 858500FESH[L][D¹]X[T])



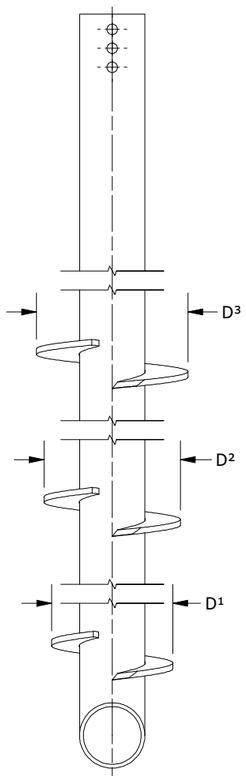
FLIGHTED EXTENSION
DOUBLE HELIX (DH)
(EX: 858500FEDH[L][D¹D²]X[T])



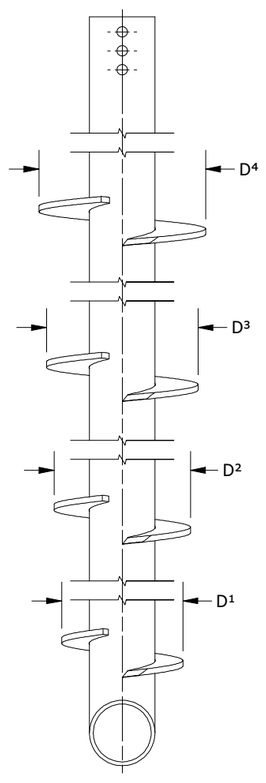
SINGLE HELIX (SH)
LEAD
(EX: 858500SH[L][D¹]X[T])



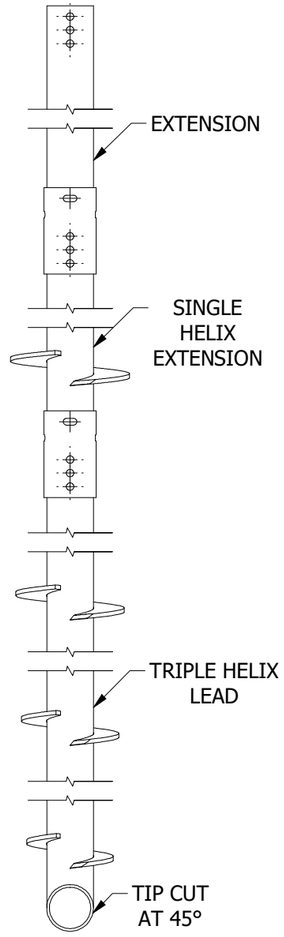
DOUBLE HELIX (DH)
LEAD
(EX: 858500DH[L][D¹D²]X[T])



TRIPLE HELIX (TH)
LEAD
(EX: 858500TH[L][D¹D²D³]X[T])



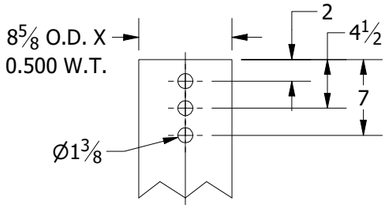
QUAD HELIX (QH)
LEAD
(EX: 858500QH[L][D¹D²D³D⁴]X[T])



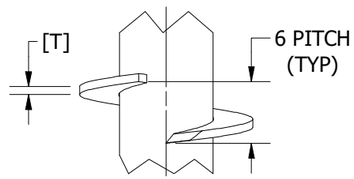
TYPICAL PILE
ASSEMBLY

NOTES:
1. PILE SHAFT TO MEET OR EXCEED 42 KSI.
2. PLATE STEEL TO MEET OR EXCEED REQUIREMENTS OF ATSM A572, GRADE 50.
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 16", 18", 20", 22" & 24". STANDARD HELIX THICKNESS IS 3/4".
6. ALL WELDING TO BE PERFORMED BY CERTIFIED WELDOR IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
7. BARE STEEL IS STANDARD. GALVANIZING IS AVAILABLE IF REQUIRED.
8. (3) 1 1/4" DIAMETER X 12" LONG PLAIN FINISH HEAVY HEX BOLT (GRADE 8) AND (3) 1 1/4" PLAIN FINISH HEAVY HEX NUT ASTM A194 (GRADE 8).

IDEAL PART # ABREVIATIONS:
858 = SHAFT DIAMETER
500 = 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: 16" = 16)
X = X (SEPARATES HELIX DIAMETER(S) AND HELIX THICKNESS)
[T] = HELIX THICKNESS (EXAMPLE: 3/4" = 34)
G = GALVANIZED (IF REQUIRED)



BOLT HOLE
DETAIL



HELIX FORMED
BY PRESS DIE

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NOT TO SCALE ALL UNITS IN INCHES U.N.O.	SIZE B	DWG NO 858500	REV 0
			SHEET 1 OF 1