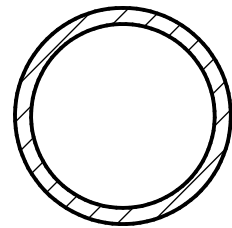


**** NOTES ****

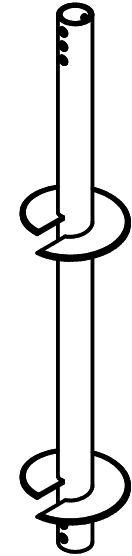
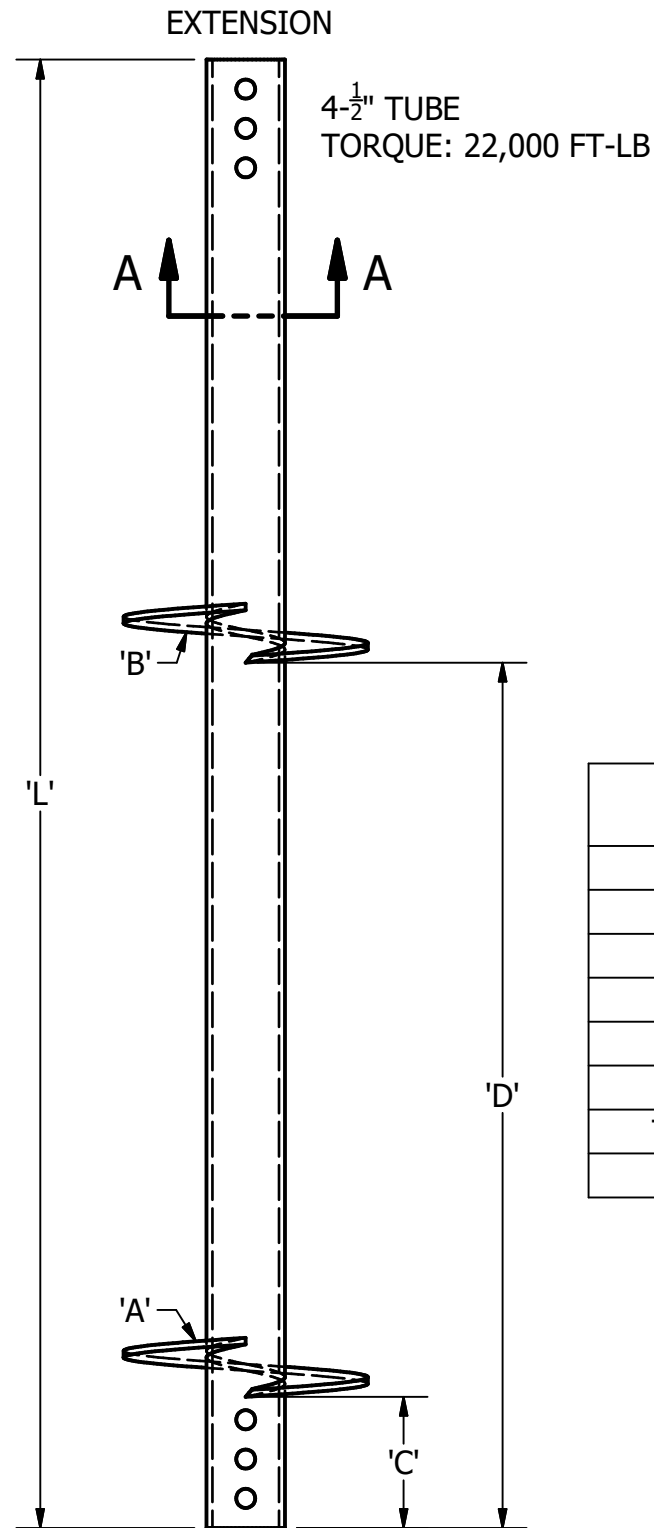
1. HOT DIP GALVANIZED PER ASTM A123 GRADE 75 (LATEST REV)
2. PIPE SHAFT MATERIAL PER ASTM A500 GRADE B MIN YIELD 50 KSI
3. HELIX SHALL BE MADE OF ASTM A572 GRADE 50 OR 80
4. COUPLING BOLTS: 1.0"Ø X 6" LONG HEX HEAD PER SAE J429 GRADE 8
5. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES
6. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1
7. ADD 'H' TO FRONT OF CATALOG NUMBER FOR ½" THICK HELICES



**SECTION A-A
SCALE 1/4**

DESCRIPTION	IMPERIAL	METRIC
SHAFT SIZE, OD	4.5 IN	114.3 mm
WALL THICKNESS	0.337 IN	8.5598 mm
MOMENT OF INERTIA (I)*	9.6104 IN ⁴	4.00x10 ⁶ mm ⁴
SHAFT AREA (A)*	4.4074 IN ²	2843.478 mm ²
SECTION MODULUS (SX-X)*	4.8053 IN ³	78744.76 mm ³
TORQUE	22,000 FT.LBS	29,828 Nm
ULTIMATE CAPACITY	160,000 LBS.	72,574.8 kg
MAX TORQUE VERIFIABLE LOAD	154,000 LBS.	69,853.2 kg

HELICAL PILES



PART NUMBER	DESCRIPTION	'L'	'A'	'B'	'C'	'D'
TAE-450-36	36" EXTENSION	36				
TAE-450-42	42" EXTENSION	42				
TAE-450-42-14	42" EXTENSION W/ 3/8" x 14" HELICAL	42	14		11	
TAE-450-60	60" EXTENSION	60				
TAE-450-84	84" EXTENSION	84				
TAE-450-84-14	84" EXTENSION W/ 3/8" x 14" HELICAL	84	14		11	
TAE-450-84-14-14	84" EXTENSION W/ 3/8" x 14"/14" HELICAL	84	14	14	17	59
TAE-450-120	120" EXTENSION	120				

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	TITLE HELICAL PILES TAE-450			
SIZE A	CAT / PART / ASSY NO. SEE CHART	DWG NO. SD-TAE-450	REV D	
DO NOT SCALE THIS DRAWING	DRN BY GDR	DATE 4/11/23	SHEET 1 OF 1	