



NOTES :

- 1-MATERIALS:
 - HELIX PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, ULTIMATE STRENGTH 70 KSI
 -TUBES PER ASTM A500 GR C, FY=60KSI, FU=70KSI
- 2-ANY CHANGE OF MATERIAL IS SUBJECT TO GOLIATHTECH APPROVAL
- 3-WELD PERFORMED IN ACCORDANCE WITH CSA STANDARD W47.1 AND GOLIATHTECH WELDING PROCEDURES. WELDERS ARE ALSO CERTIFIED TO THE AWS STANDARD.
- 4-HOT-DIP GALVANIZED, PARTS PER ASTM A123.

NO.	Dimension (inches)	Description	MECHANICAL ASD LOAD CAPACITY							
			Unbraced Shaft Length, L_u (ft)	Compression (kips)			Tension (kips)	Lateral (kips)	Bending Moment (kips.ft)	Max Soil Capacity Comp/Ten* (kips)
				0 Coupler	1 Coupler	2 Coupler				
A	84		0	70.6	70.6	70.6	28.78	21.30	7.12	43.75
B	13		5	40.2	26.2	16.3				
C	4 1/4		10	22.8	17.5	12.5				
D	3 PITCH		15	13.0	11.1	8.8				
E	3/8		20	8.2	7.4	6.3				
F	1		Note:							
G	1 1/2		1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.							
H	3 1/2		2. Maximum ultimate soil capacity is determined from $P_{ult} = K_t \times T$ based on the corresponding maximum installation torque rating for the specific pile model. Allowable soil capacity is determined from $P_a = P_{ult} / 2.0$ based on the corresponding maximum installation torque rating for the specific pile model. See Section 4.1.5 for additional information.							
I	9/16		3. Mechanical torsion rating is the maximum torsional resistance of the steel shaft.							
J	1/4	Weld	4. Maximum Torque Per Soil Tests is the maximum torque achieved during field axial verification testing that was conducted to verify the pile axial capacity related to pile-soil interaction.							
K	39		5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the "maximum torque per soil tests".							
L	15		6. The allowable soil capacity under the IRC must be determined in accordance with Equation 3 of Section 4.1.5 of this report, when applicable.							
M	3 PITCH		*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost helix.							
N	3/8		8. Max Soil Capacities based on the the tube torsional capacity.							
O	3 1/2									
P	1/4	Weld								

3		
2		
1	INITIAL RELEASE	2023-09-08
REV	MODIFICATION	DATE



GOLIATHTECH PRESTIGE LINE

TITLE: Double Helix Screw Pile of 3 1/2 (0.250 wall) with a 13" and 15" Helix

SEAL:	DWG. NO : GTP13121315
	DRAWN BY: ARG
	DESIGN BY: GOLIATHTECH
	CHECK BY: CPOC
	APP BY: CPOC
OTHER NO : -	

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