DETAIL A

DETAIL B

REV	MODIFICATION	DATE
3		
2		
1	INITIAL RELEASE	2023-09-07

GOLIATHTECH

GOLIATHTECH PRESTIGE LINE

TITLE: Double Helix Screw Pile of 2 7/8 (0.250 wall) with a 11" and 13" Helix

SEAL:

DWG. NO : **GTPI2781113**

DRAWN BY: ARG

DESIGN BY: GOLIATHTECH

CHECK BY: CPOC

APP BY: CPOC

OTHER NO : -

FORMAT : A

SCALE : NTS

REV.: 1

DATE : 2023-09-07

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MECHANICAL ASD LOAD CAPACITY

NO.	Dimension (inches)	Description	Unbraced Shaft Length, Lu (ft)	Compression (kips) 0 Coupler	Compression (kips) 1 Coupler	Compression (kips) 2 Coupler	Tension (kips)	Lateral (kips)	Bending Moment (kips.ft)	Max Soil Capacity Comp/Ten * (kips)
A	84		0	65.5	65.5	65.5				
B	11		5	28.1	15.0	8.1				
C	4 1/4		10	14.1	9.8	6.3	25.78	16.70	4.59	34.88
D	3 PITCH		15	7.4	6.0	4.5				
E	3/8		20	4.6	4.0	3.3				
F	1									
G	1 1/2									
H	2 7/8									
I	9/16									
J	1/4	Weld								
K	33									
L	13									
M	3 PITCH									
N	3/8									
O	2 7/8									
P	1/4	Weld								

Note:
1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.
2. Maximum ultimate soil capacity is determined from Pult = Kt x T based on the corresponding maximum installation torque rating for the specific pile model. Allowable soil capacity is determined from Pa = Pult /2.0 based on the corresponding maximum installation torque rating for the specific pile model. See Section 4.1.5 for additional information.
3. Mechanical torsion rating is the maximum torsional resistance of the steel shaft.
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.
5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the "maximum torque per soil tests".
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.
*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost helix.
8. Max Soil Capacities based on the the tube torsional cpacity.