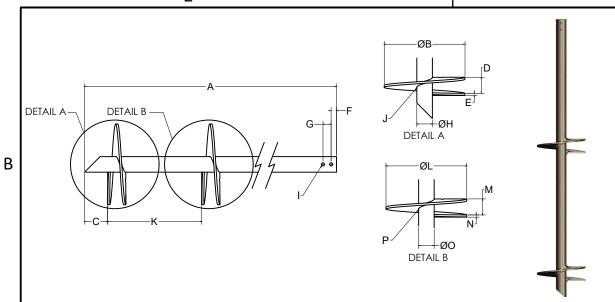
1



NOTES
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.

3		
2		
1	INITIAL RELEASE	2023-09-05
REV	MODIFICATION	DATE

GOLIAŢH TECH

GOLIATHTECH VENTURA LINE

TITLE: Double Helix Screw Pile of 2 3/8 (0.154 wall) with a 13" and 15" Helix

SFAL:

DWG. NO: VGTPI2381315 DRAWN BY: ARG DESIGN BY: **GOLIATHTECH** CHECK BY: CPOC APP BY: CPOC OTHER NO:

FORMAT : A	REV.:	DATE :	PAGE :
SCALE: NTS	1	2023-09-05	1 DE

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NO		Dimension	Description	shaft uft	Compression (kips)		Tension	Lateral	Bending	Max Soil Capacity	
		(inches)		Unbraced Straft Luten	0 Coupler	1 Coupler	2 Coupler	(kips)	(kips)	Moment (kips.ft)	Comp/Ten * (kips)
l	Α	84		0	26.3	26.3	26.3	11.74	6.40	1.51	15.75
l	В	13		5	9.7	5.2	3.1				
l	C	4 1/4		10	4.3	3.1	2.2				
l	D	3 PITCH		15	2.2	1.9	1.5				
l	Ε	3/8		20	1.4	1.2	1.1				
l	F	1		Note:							
l	G	1 1/2			. 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						
I	Н	2 3/8		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.

MECHANICAL ASD LOAD CAPACITY

- 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
- 8. Max Soil Capacities based on the the tube torsional cpacity.

9/16

1/4

3 PITCH

3/8

1/4

2 3/8

39

15

K

M

Ν

0

P

Weld

Weld