1

MECHANICAL ACD LOAD CADACITY

determined from Pa = Pult /2.0 based on the corresponding maximum installation torque rating

4. Maximum Torque Per Soil Tests is the maximum torque achieved during field axial

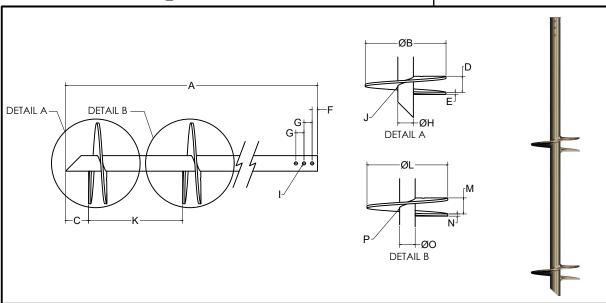
verification testing that was conducted to verify the pile axial capacity related to pile-soil

5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the

6. The allowable soil capacity under the IRC must be determined in accordance with Equation

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.



## 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	2023-09-21
REV	MODIFICATION	DATE

## GOLIAŢH TECH

## **GOLIATHTECH VENTURA LINE**

TITLE: 14'Double Helix Screw Pile of 3 1/2 (0.250 wall) with a 15"and 17"Helix

SFAL:

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

ORMAT : A		REV.:		DATE :		PAGE :		
SCALE :	NTS		1	2	2023-09-21	1	DE 1	

\*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE REPRODUCED OR COPIED WITHOUT THE EXPRESS WRITTEN PERMISSION OF A DULY AUTHORIZED REPRESENTATIVE OF GOLIATHTECH INC.

			MECHANICAL ASD LOAD CAPACITY							
NO.	Dimension	Description	d Straft Luftil	Compression (kips)			Tension	Lateral	Bending	Max Soil Capacity
	(inches)		Undraced shaft Luften	0 Coupler	1 Coupler	2 Coupler	(kips)	(kips)	Moment (kips.ft)	Comp/Ten * (kips)
Α	168		0	58.4	58.4	58.4				
В	15		5	34.5	22.3	13.9				
С	4 1/4		10	19.6	14.9	10.6	22.79	18.50	6.20	43.75
D	3 PITCH		15	11.3	9.5	7.5				
E	3/8		20	7.1	6.3	5.4				
F	1		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							
G	1 1/2	·								
Ιн	3 1/2		maximum installation torque rating for the specific pile model. Allowable soil capacity is							

"maximum torque per soil tests".

3 of Section 4.1.5 of this report, when applicable.

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

helix.

3 1/2

9/16

1/4

3 PITCH

3/8

1/4

3 1/2

45

17

M

Ν

0

Weld

Weld

В