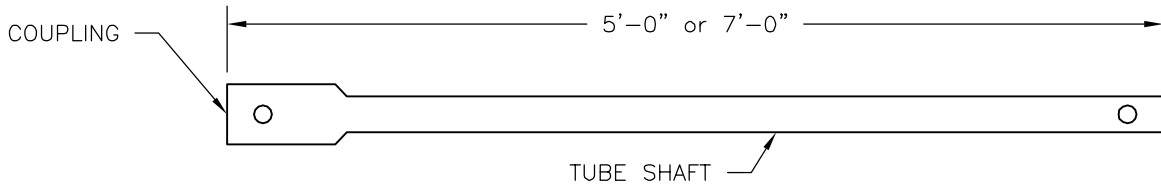


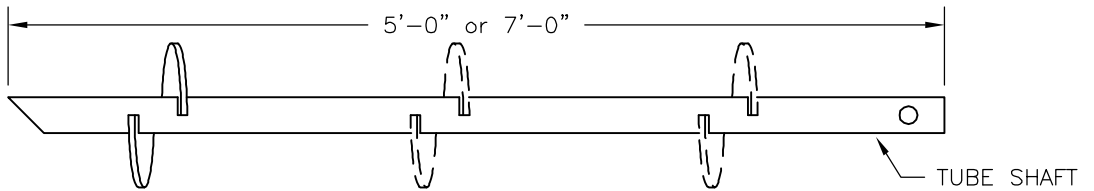
THIS DRAWING AND THE INFORMATION CONTAINED HEREON ARE THE PROPERTY OF IMR, Inc. THIS DRAWING IS INTENDED FOR THE SOLE USE OF IMR, Inc., AND ITS AUTHORIZED CLIENTS ONLY.

HPFT



EXTENSION

NO SCALE




**LEAD SECTION
SINGLE OR MULTIPLE HELIX**

NO SCALE

NOTES:

1. THIS DRAWING COVERS 2", 2.5", 3", AND 4" TUBULAR HELICAL PILE MATERIAL MANUFACTURED BY IMR.
2. 2" TUBULAR IS 2"x2" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 0.75" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT.
3. 2.5" TUBULAR IS 2.5"x2.5" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 0.75" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT.
4. 3" TUBULAR IS 3"x3" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 0.875" DIAMETER SAE J429, Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT.
5. 4" TUBULAR IS 4"x4" STRUCTURAL TUBING, 0.50" WALL THICKNESS. THE CONNECTION BOLT IS 1.25" DIAMETER SAE J429, Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT.
6. ALL STRUCTURAL TUBING IS PER ASTM A500 Gr C (Fy = 50KSI)
7. ALL HELIX MATERIAL IS 0.5" THICK AND IS PER ASTM A656 Gr 80 TYPE 7.
8. ULTIMATE HELIX MECHANICAL CAPACITY: 6" THROUGH 12" DIAMATER = 70,000 LBS
14" DIAMETER = 56,000 LBS
9. ALL WELDS ARE 0.25" FILLET MINIMUM WITH ER70S ELECTRODE.
10. ALL STEEL MATERIAL IS GALVANIZED PER ASTM B633-85 FE/ZN, TYPE III.
11. ULTIMATE MECHANICAL CAPACITY: 2" TUBULAR: 40,000 LBS. COMPR., 40,000 LBS TENSION.
2.5" TUBULAR: 70,000 LBS. COMPR., 60,000 LBS TENSION.
3" TUBULAR: 110,000 LBS. COMPR., 62,000 LBS TENSION.
4" TUBULAR: 300,000 LBS. COMPR., 105,000 LBS TENSION.

 IMR, Inc. - DENVER 5135 Ward Road, Wheat Ridge, Colorado, 80033 USA 303-423-0591 Fax: 303-423-9155 www.helipile.com	SPECIFICATION SHEET		TUBULAR HELICAL PILES	
	DRAWN BY: RJV	ENGINEER: JSP	HPFT.DWG DATE: 2/17/10	SHEET 1 OF 1 REVISION: 2