

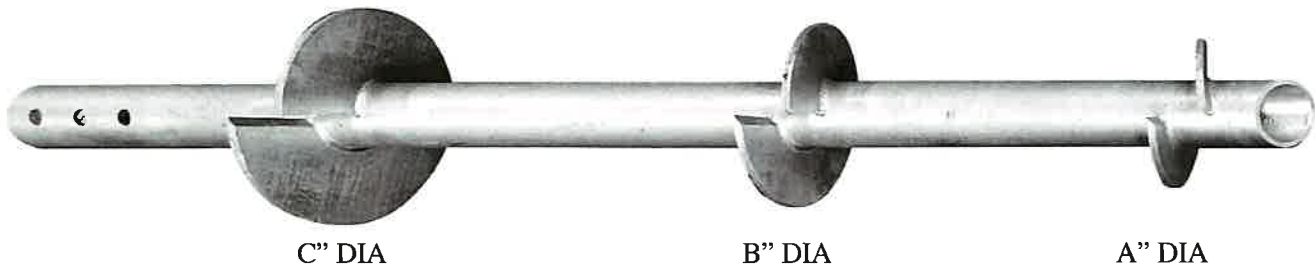


PATRIOT FOUNDATION SYSTEMS



3½" OD TUBULAR LEADS (.254" WALL THICKNESS)

*Refer to the Table "Product Specification" for helical product rating for all capacity values.



Product Description	Plate Diameter			Length	Weight	Part Number
	A	B	C			
3.5" x 7' (.254")	12"	--	--	7'	80lbs	PF350-12-7(80)
3.5" x 7' (.254")	8"	10"	12"	7'	95lbs	PF350-8/10/12-7(80)

Notes:

Other Helix configurations and special orders available.

Allow extra time for manufacturing.

Fabrication for specific lengths is available upon request.



1½" X 1½" Square Bar Anchor and Extensions

Product Specification	
Shaft OD	1.5" X 1.5" Square Bar
Wall Thickness	1.5"
Shaft Material	EN-19 or CR-40
Shaft Coupling	Welded according to AWS D1.1
Helix Material	ASTM A123 (or equivalent)
Corrosion Protection	Hot Dip Galvanized ASTM A123

Capacity	
Ultimate Capacity	70 kips
Ultimate Tension	70 Kips
Torque Rating	10,000 lb-ft
Torque Factor	7 kt



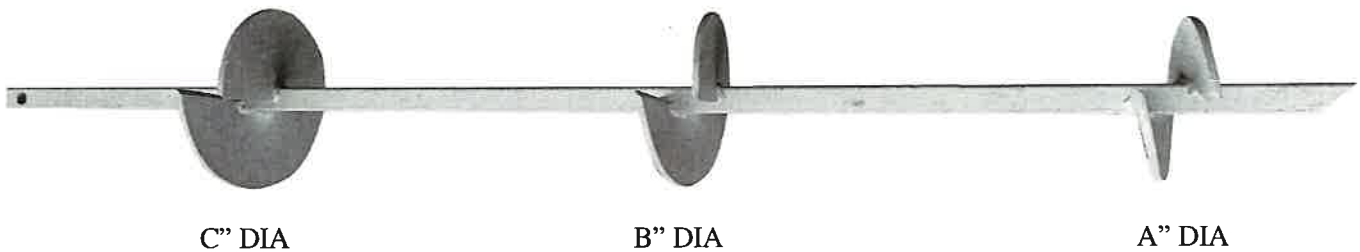
Helix Diameter (in)		Helix Thickness (in)		Helix Torque Rating	
8		.5	.375	10,300 lb-ft	8,300 lb-ft
10		.5	.375	10,300 lb-ft	8,300 lb-ft
12		.5	.375	10,300 lb-ft	8,300 lb-ft
14		.5	.375	10,300 lb-ft	8,300 lb-ft

*Helix shape and thickness can be custom designed upon request



1½" X 1½" Square Leads

*Refer to the Table "Product Specification" for helical product rating for all capacity values.



Product Description	Plate Diameter			Length	Weight	Part Number
	A	B	C			
1.5" x 1' (1.5")	8"	--	--	1'	17lbs	FS150-8-1
1.5" x 1' (1.5")	12"	--	--	1'	20lbs	FS150-12-1
1.5" x 5' (1.5")	8"	--	--	5'	42lbs	FS150-8-5
1.5" x 5' (1.5")	12"	--	--	5'	60lbs	FS150-12-5
1.5" x 7' (1.5")	12"	--	--	7'	71lbs	FS150-12-7
1.5" x 7' (1.5")	8"	10"	--	7'	72lbs	FS150-8/10/-7
1.5" x 7' (1.5")	10"	12"	--	7'	80lbs	FS150-10/12-7
1.5" x 7' (1.5")	8"	10"	12"	7'	84lbs	FS150-8/10/12-7
1.5" x 7' (1.5")	10"	12"	14"	7'	91lbs	FS150-10/12/14-7

Notes:

Other Helix configurations and special orders available.

Allow extra time for manufacturing.

Fabrication for specific lengths is available upon request.



1½" X 1½" Square Extensions

*Refer to the Table "Product Specification" for helical product rating for all capacity values.



Product Description	Square Bar	Length	Weight	Part Number
1.5" Extension	1.5"x1.5"	3'	25lbs	SO150-3
1.5" Extension	1.5"x1.5"	5'	40lbs	SO150-5
1.5" Extension	1.5"x1.5"	7'	51lbs	SO150-7

Notes:

- Fabrication for specific lengths is available upon request.
- Fabrication and welding for added helix plate is available upon request. *Additional cost*

PART NUMBER	DIM "A"	DIM "B"	DIM "C"
PF300	60"	8"	
PF300	60"	10"	
PF300	60"	12"	
PF300	60"	14"	
PF300	84"	8"	10"
PF300	84"	10"	12"
PF300	84"	12"	14"
PF300	84"	14"	16"
JW300	36"		
JW300	60"		
JW300	84"		
JW300	60"	14"	
JW300	84"	14"	14"

NOTES

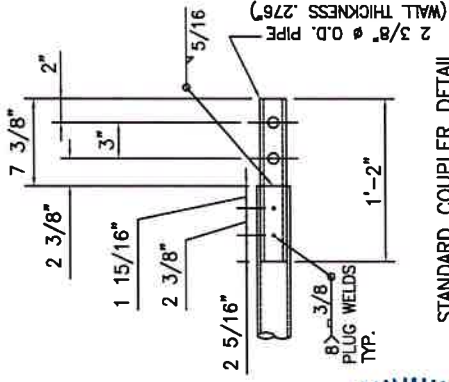
- CORROSION PROTECTION CONFORMS TO ASTM A123 STANDARD SPECIFICATION FOR HOT DIPPED ZINC (GALVANIZED) COATING.
- NUTS AND BOLTS TO BE INCLUDED AS INDICATED SEE DETAIL.
- HELIX ADVANCEMENT RATIO 3:1 INCHES.
- LEADING EDGE OF FLIGHT TO BE BEVELED 45 DEGREES.

STEEL SPECIFICATIONS:

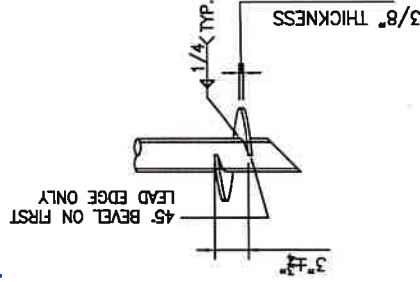
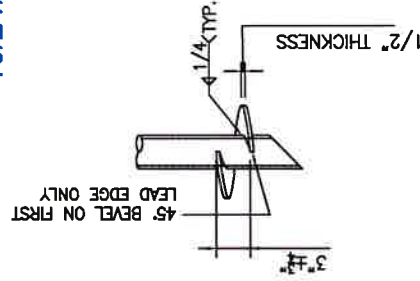
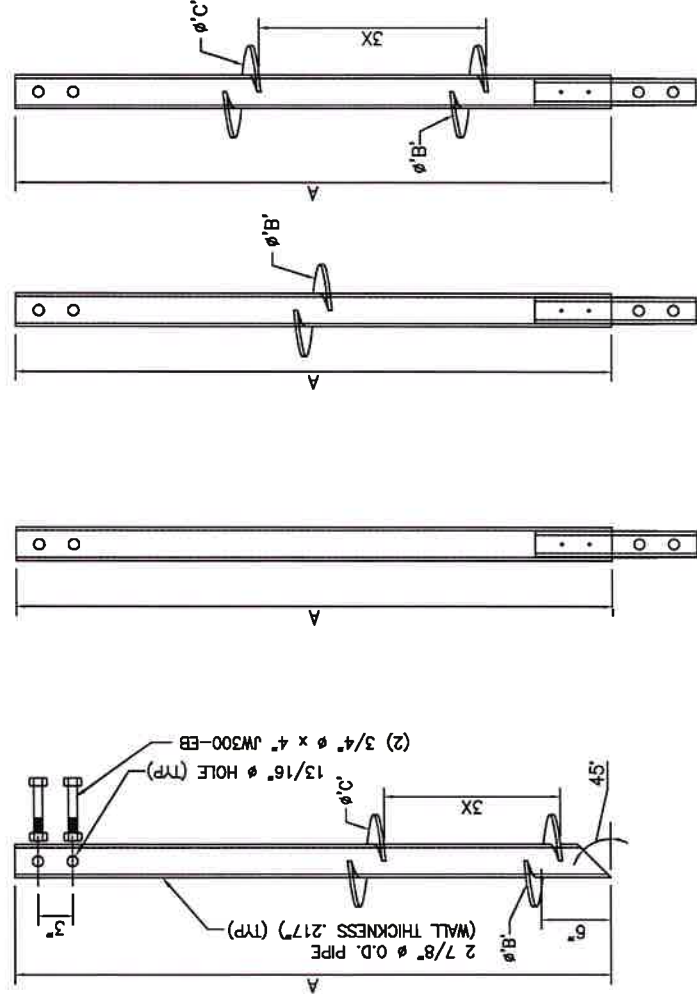
- PIPE SHAFT: 2 7/8" Ø OD J55 SEAMLESS TUBE .217" WALL (FY=55 KSI).
- PIPE SHAFT INSERT: 2 3/8" Ø OD J55 SEAMLESS TUBE .276" WALL (FY=36 KSI).
- HELIX PLATES: GB/T 3274 Q235B HOT ROLLED PLATE STEEL 3/8" (.375") STOCK.
- THIS PRODUCT IS IN CONFORMANCE WITH ASTM A513
- STEEL SPECIFICATIONS MUST BE STRICTLY ADHERED TO

CAPACITIES

- ULTIMATE CAPACITY = 54 KIPS
- ULTIMATE TENSION = 48.6 KIPS
- ULTIMATE TORQUE RATING = 6,000 LB-FT



10/21/2021



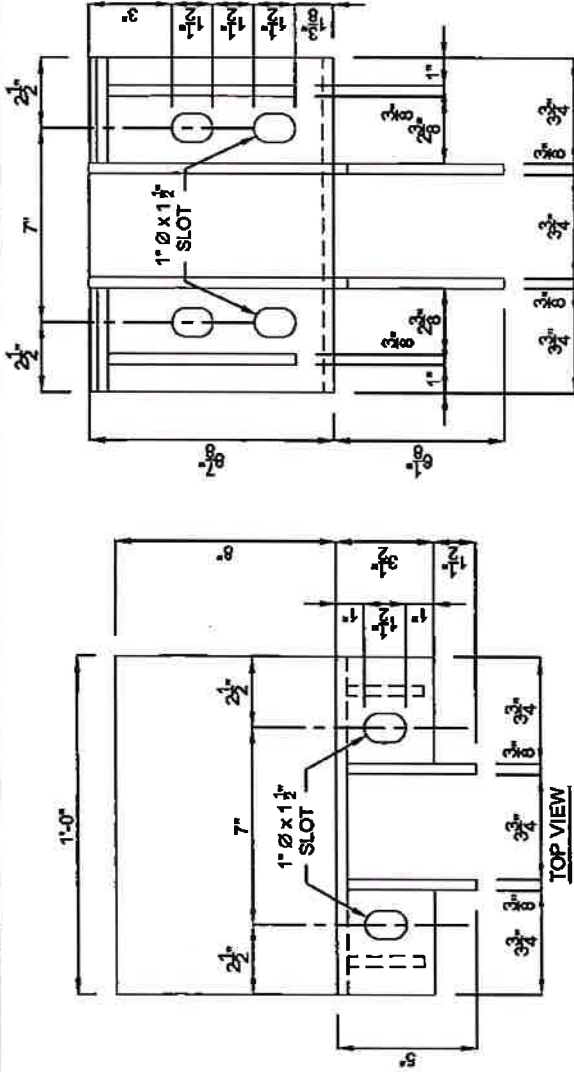
DOUBLE HELIX
LEAD SECTION

PLAIN
EXTENSION

SINGLE HELIX
EXTENSION

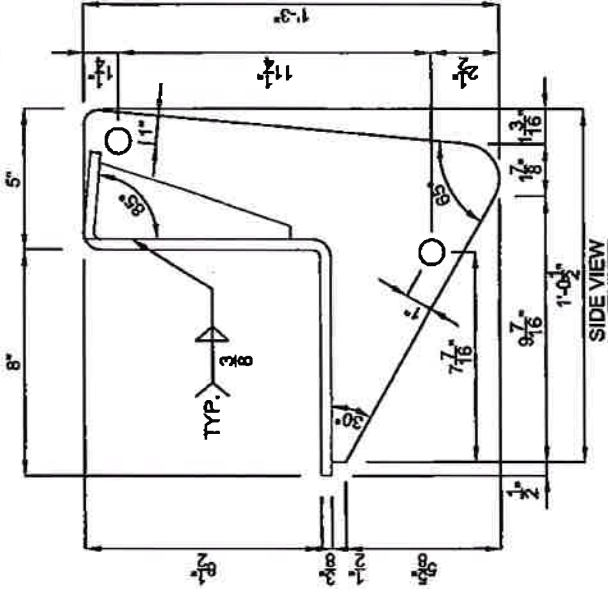
DOUBLE HELIX
EXTENSION

DRAWN	VD	08/31/2021	 PATRIOT FOUNDATION SYSTEM 30427 COMMERCE DR SAN ANTONIO, FLORIDA 78216 PH: 352-668-4842 FAX: 352-588-0911	JW300 DOUBLE HELIX LEADS AND EXTENSIONS	DWG NO	XXXXXX	SHEET X OF X
CHECKED	FA	08/31/2021					
APPROVED	RSC	08/31/2021					
MFG	COMPANY	DATE					
SCALE	NTS	DWG SIZE SIZE					

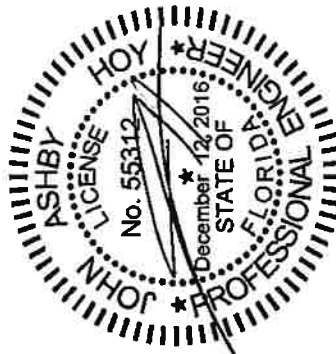


BACK VIEW

WA300



SIDE VIEW



NOTES:

1. CORROSION PROTECTION CONFORMS TO ASTM A123 STANDARD SPECIFICATION FOR HOT DIPPED ZINC (GALVANIZED) COATING.

STEEL SPECIFICATIONS:

PLATES: GB/T 3274 Q235B HOT ROLLED PLATE STEEL 3/8" (.375") STOCK WELDING: IN ACCORDANCE WITH AWS D1.1 LATEST REVISIONS

STEEL SPECIFICATIONS MUST BE STRICTLY ADHERED TO.

John A. Hoy
Fl. Lic. No. 55312
Florida Engineering
Solutions Inc. CA No. 26300
12620 Curley St. - Suite 105
San Antonio, Florida 33576
Ph: 352-588-5311



PATRIOT FOUNDATION SYSTEMS

30427 Commerce Drive
San Antonio, Florida 33576
Ph: 352-668-4842 Fax: 352-668-4803

ITEM DESCRIPTION: SEAT DETAIL

PART NUMBER: WA300

ULTIMATE CAP.: 46.8 kips ALLOWABLE CAP.: 23.4 kips

TITLE: SEAT DETAIL WA300

DATE: 3/11/13 DRAWN BY: J.A. CHD. BY: J.H.

REV. 12/08/16 16-7383-014 SHEET- 5 of 12