DO NOT SCALE THIS DRAWING

NOTES:

1.) THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN & STRUCTURAL INTEGRITY OF THE TANK.

2.) WIND AND SEISMIC LOAD PER BOCA 1996
SNOW LOAD, P_g = 20 PSF

3.) ALL NON CONTACT SURFACES TO BE CARBON STEEL

4.) FABRICATOR TO SUPPLY BRACKETS FOR VENDOR NAMEPLATE AND THERMAL KINETICS SYSTEMS NAMEPLATE

5.) ALL CARBON STEEL PARTS ATTACHED TO STAINLESS STEEL PARTS SHALL BE ATTACHED USING 304L STAINLESS STEEL. SCAB PLATES SHALL BE USED WITH ATTACHMENTS FOR VESSEL WALL THICKNESS OF 3/16" OR LESS. 304L STAINLESS STEEL PARTS MAY BE USED INSTEAD OF CARBON STEEL AT THE VENDORS OPTION.

6.) ALL NOZZLES SHALL BE SQUARE, PLUMB, AND ACCURATELY LOCATED TO THE FOLLOWING TOLERANCES:

A) OVERALL DIAMETER AND HEIGHT: ± 1/2"
B) FLATNESS: ± 1/4"
C) NOZZLE LOCATION: ± 1/4" FROM CENTERLINES
D) PROJECTION: ± 1/8" FROM OUTSIDE SHELL TO FACE OF NOZZLE
E) FLANGE FACES: 1/2" IN ANY PLANE

7.) FABRICATOR TO PROVIDE VESSEL COMPLETE WITH LIFTING AND TRAILING LUGS FOR HANDLING AND ERECTION

SPECIFICATIONS:

GF-1-73338: GENERAL FABRICATION STANDARDS FOR PRESSURE VESSELS & HEAT EXCHANGERS

REF. DWG'S:

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NOZZLE SCHEDULE

MK	SIZE	RATING	FACING	PROJ.	SERVICE	REMARKS
N1	14"	150 LB	RFSO	6"	INLET	FR ET-4114
N2	14"	150 LB	RFSO	6"	OUTLET	TO TW-4301/TW-4302

DESIGN DATA

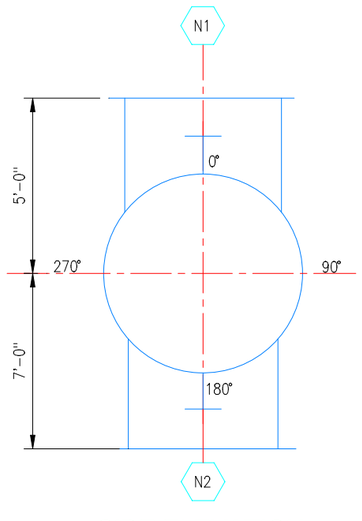
CODE: ASME VIII DIV1 STAMPED AND REGISTERED			
SPECIFIC GRAVITY/CONTENTS: 0.25			
DESIGN PRESS.: 75/FV	(psig)	DESIGN TEMP.: 450	(°F)
OPERATING PRESS.: 48	(psia)	OPERATING TEMP.: 325	(°F)
MDMT: -20°F			
CORROSION ALLOWANCE: 1/16"			
No. & TYPE OF TRAYS: N/A			
STRESS RELIEF:			
TESTS:			
WIND: BASIC WIND SPEED: 80 MPH WIND IMPORTANCE FACTOR: 1.0		SEISMIC: A_V = 0.05 A_a = 0.05	
WEIGHT EMPTY: VENDOR TO PROVIDE(lbs)		WEIGHT FLOODED:	
VOLUME: VENDOR TO PROVIDE	(gal)		
WEIGHT INSULATION: VENDOR TO PROVIDE			

NOZZLE LOADS

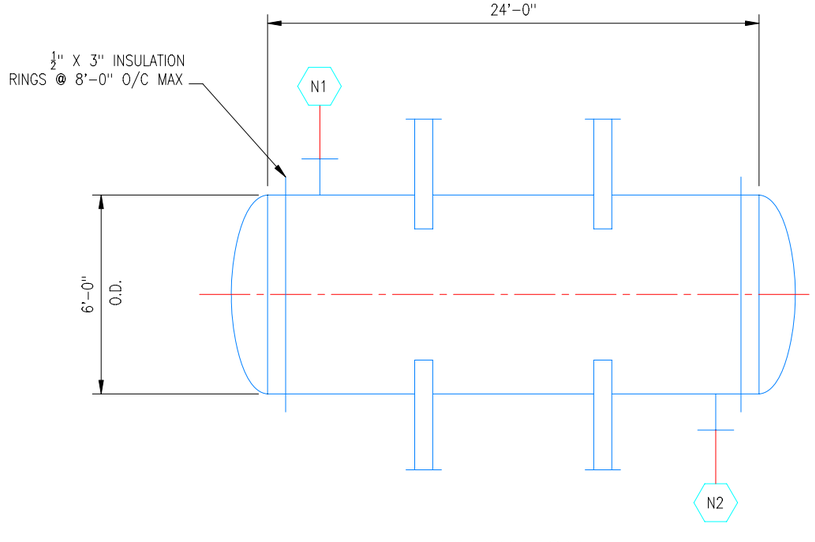
MK	F_R (lbs)	M_R (ft/lbs)	MK	F_R (lbs)	M_R (ft/lbs)
N1	4400	6332			
N2	4400	6332			

MATERIALS OF CONSTRUCTION

ITEM	MATERIAL	COMMENTS
SHELL	CS	
HEADS	CS	2:1 ELLIPTICAL
JACKET	N/A	
CLADING/LINER	N/A	
INTERNAL SUPPORTS	N/A	
GASKETS	IFG5500	
BOLTING	SA-193-B7/S14-194-2H	
LADDER	N/A	
PLATFORMS	N/A	
VESSEL SUPPORTS	CS	SADDLES
PAINT:	SEE SPEC GF-1-73338 CL-1	
SURFACE PREP:	SEE SPEC GF-1-73338 CL-1	
INSULATION:	3" FIBERGLASS	PURCHASER TO PROVIDE



SIDE ELEVATION



ELEVATION

CONFIDENTIAL

ACCUMULATOR-INLET

THERMAL KINETICS Engineering, PLLC & Systems, LLC
Evaporation/Distillation/Chemical Reaction/Process Design & Energy Conservation
667 Tifft Street Buffalo, NY 14220

REV	REVISION	DATE ISSUED	DWN BY	CHK BY	CLIENT APPD
B	ISSUED FOR REVIEW & COMMENT	7-14-06	KAR	JL	–
A	ISSUED FOR BID	06-27-06	RJS	–	–

SPEC. No.: GF-1-73338 | SCALE: NONE | SIZE: B
DRAWN BY: JEM | DATE: 5-23-06 | CHECKED BY: – | DATE: –

EQUIPMENT No.: TP-4301
PROJECT No.: 73338
PROJECT NAME: CENTRAL ILLINOIS
SHEET No.: 1 of 1
DRAWING No.: 6018-MQ-4301 | REV.: B

B-SIZE (11x17)