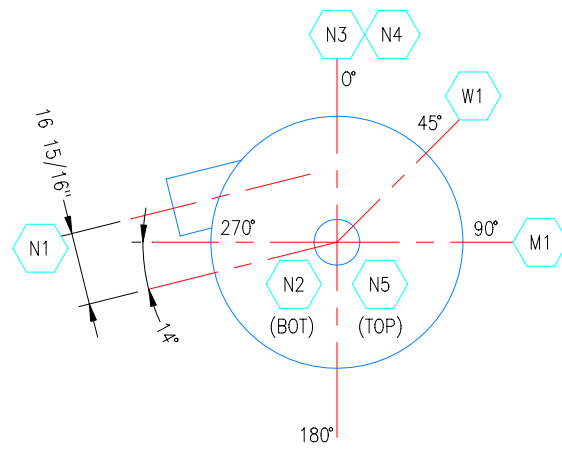
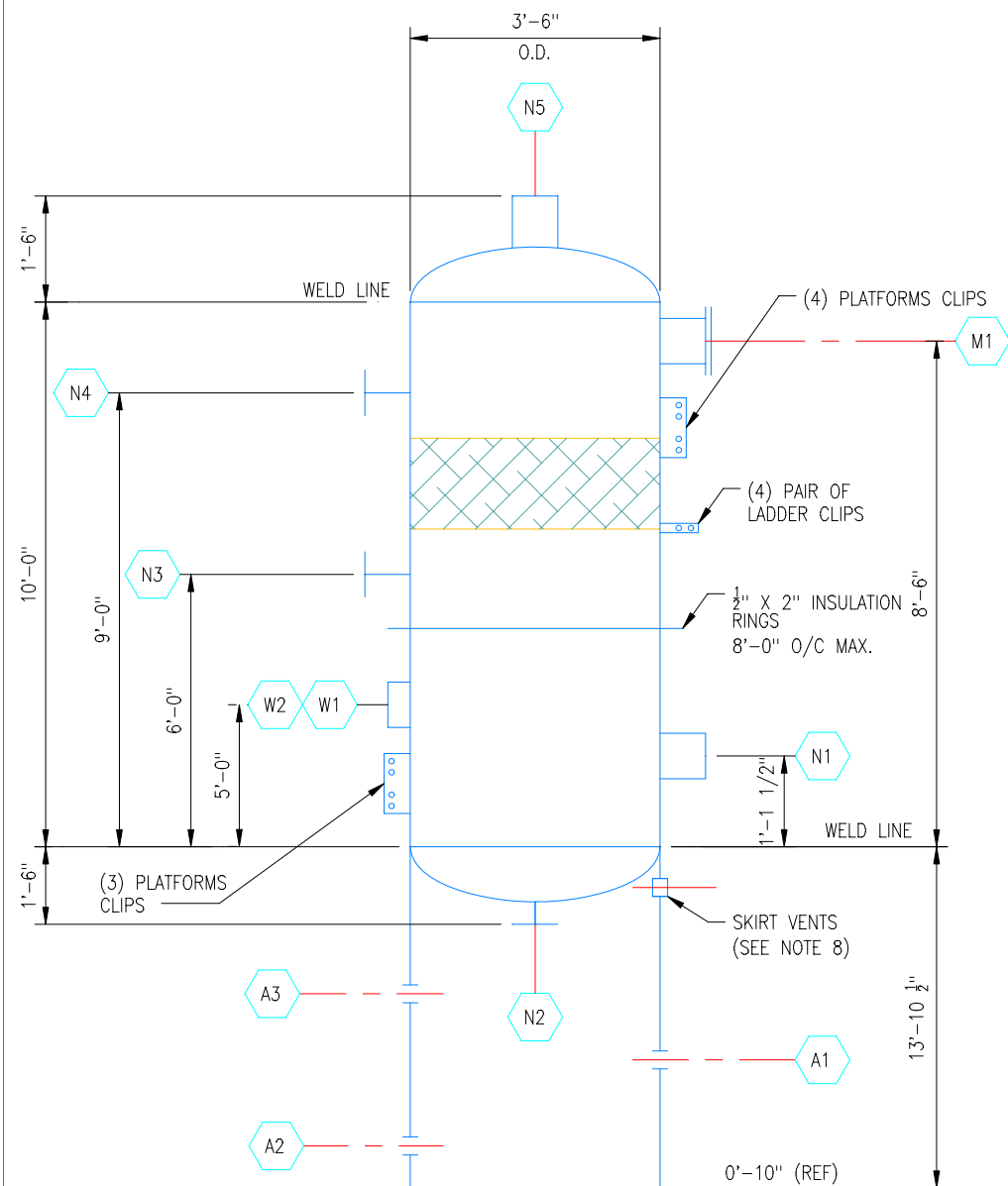


DO NOT SCALE THIS DRAWING



PLAN



ELEVATION

NOZZLE SCHEDULE							DESIGN DATA	
MK	SIZE	RATING	FACING	PROJ.	SERVICE	REMARKS	CODE: ASME V111 DIV 1 STAMPED AND REGISTERED	
N1	14"		BUTT WELD	6"	VAPOR INLET	FR ET-4104	SPECIFIC GRAVITY/CONTENTS: 1.08	
N2	6"	150 LB	LJ FLG	6"	LIQUID RETURN	TO PC-4104	DESIGN PRESS.: 75/FV (psig)	DESIGN TEMP.: 250 (°F)
N3	6"	150 LB	LJ FLG	6"	LOWER CIP	FR TP-4105	OPERATING PRESS.: 12.26 (psia)	OPERATING TEMP.: 203 (°F)
N4	6"	150 LB	LJ FLG	6"	UPPER CIP	FR TP-4105	MDMT: -20°F	
N5	14"		BUTT WELD	6"	VAPOR DISCH	TO TW-4104	CORROSION ALLOWANCE: NONE	
M1	24"				MANWAY W/HINGE OR DAVIT		No. & TYPE OF TRAYS: 8" THICK MIST ELIMINATOR	
W1			WELD PAD	N/A	SIGHTGLASS W/4" VIEW		STRESS RELIEF:	
W2			WELD PAD	N/A	SIGHTGLASS W/4" VIEW		TESTS:	
A1	14"	ATMO	PLAIN	3"	SKIRT PENETRATION FOR N2		WIND: BASIC WIND SPEED: 80 MPH	SEISMIC: A _y = 0.05
A2	24"	ATMO	PLAIN	3"	SKIRT ACCESS		WIND IMPORTANCE FACTOR: 1.0	A _z = 0.05
A3	3"	ATMO	PLAIN	3"	FIRE PROTECTION			

NOTES:

- THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN & STRUCTURAL INTEGRITY OF THE TANK.
- WIND AND SEISMIC LOAD PER BOCA 1996
SNOW LOAD, P_s = 20 PSF
- ALL NON CONTACT SURFACES TO BE CARBON STEEL
- FABRICATOR TO SUPPLY BRACKETS FOR VENDOR NAMEPLATE AND THERMAL KINETICS SYSTEMS NAMEPLATE
- 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.
- 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
- FABRICATOR TO PROVIDE VESSEL COMPLETE WITH LIFTING AND TRAILING LUGS FOR HANDLING AND ERECTION
- FABRICATOR SHALL PROVIDE AND ORIENT (4) EA. 2" SCH. 40 SKIRT VENTS APPROX. EQUAL SPACING AND TO CLEAR ALL SKIRT OPENINGS, SEAMS, SUPPORT CLIPS, ETC.

SPECIFICATIONS:

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

REF. DWG'S:

- 6018-MD-4001

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WEIGHT EMPTY:	(lbs)	WEIGHT FLOODED:	(lbs)
VOLUME:	(gal)		
WEIGHT INSULATION:			

NOZZLE LOADS

MK	FR (lbs)	MR (ft/lbs)	MK	FR (lbs)	MR (ft/lbs)
N1	4400	6332	N4	1500	2394
N2	1500	2394	N5	4400	6332
N3	1500	2394			

MATERIALS OF CONSTRUCTION

ITEM	MATERIAL	COMMENTS
SHELL	304L SS	
HEADS	304L SS	2:1 ELLIPTICAL
JACKET	NONE	
CLADING/LINER	NONE	
INTERNAL SUPPORTS	304L SS	DEMISTER SUPPORT RING
GASKETS	IFG 5500	
BOLTING	SEE SPEC GF-1-73338	
LADDER	CS	CLIPS ONLY
PLATFORMS	CS	CLIPS ONLY
VESSEL SUPPORTS	CS	SKIRT
PAINT:	SEE SPEC GF-1-73338 CL-1	
SURFACE PREP:	SEE SPEC GF-1-73338 CL-1	
INSULATION:	2" FG-TOP HEAD Ca Si	PURCHASER TO PROVIDE

CONFIDENTIAL

200 PROOF CONDENSER/ BC BOILER SEPARATOR



Evaporation/Distillation/Chemical Reaction/Process Design & Energy Conservation
667 Tiftt Street Buffalo, NY 14220

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EQUIPMENT No.:	TP-4104
PROJECT No.:	73338
PROJECT NAME:	CENTRAL ILLINOIS
SHEET No.:	1 of 1
DRAWING No.:	6018-MQ-4106
REV.:	B

B	ISSUED FOR REVIEW & COMMENT	7-14-06	KAR	JL	-
A	ISSUED FOR BID	06-23-06	RJS	-	-
REV	REVISION	DATE ISSUED	DWN BY	CHK BY	CLIENT APPR

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

B-SIZE (11x17)