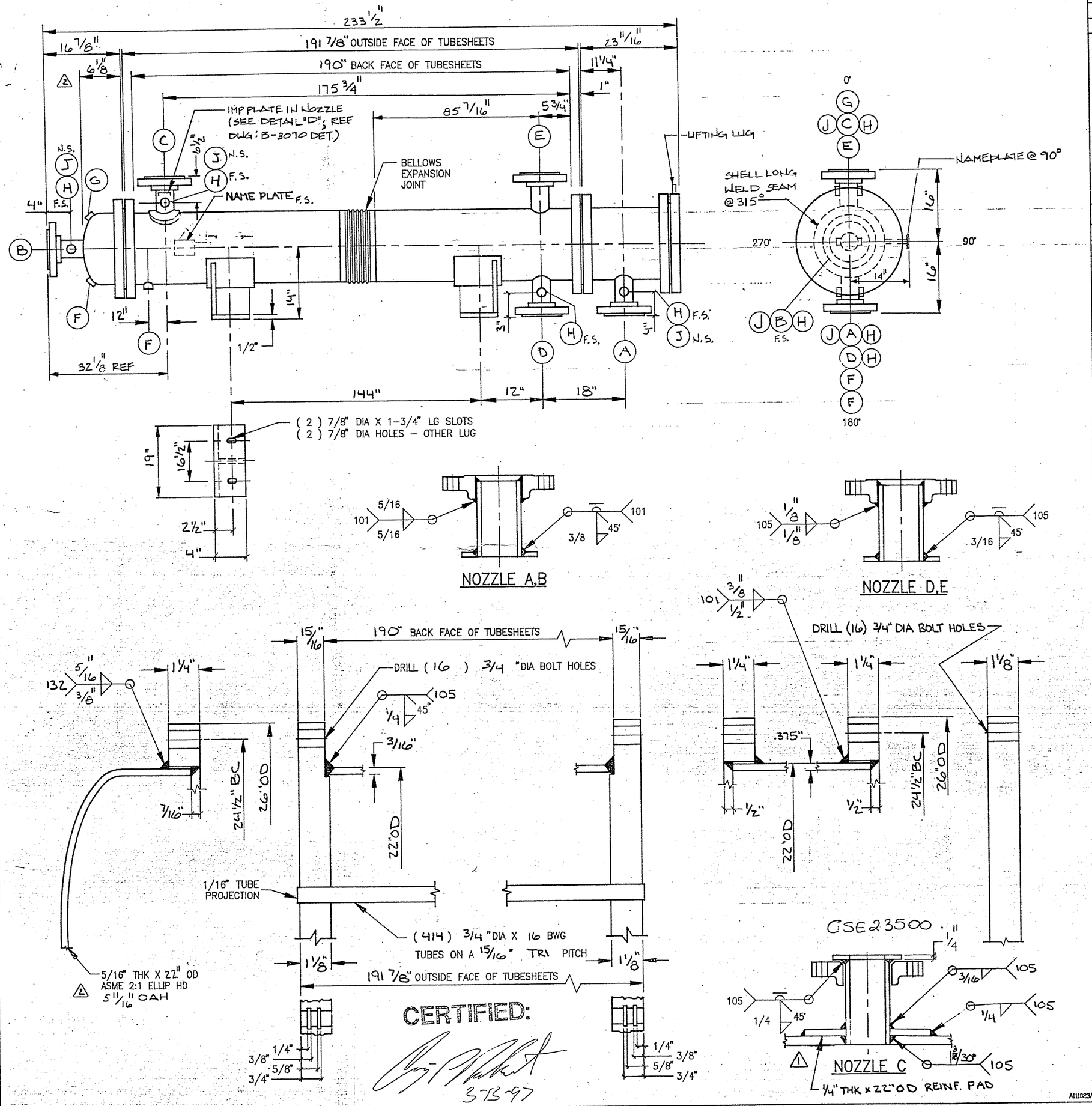

NO.	REVISION	BY	DATE
2	CHANGE OAH ON REAR HEAD	RES	3-13-97
1	REINF. PAD	DD	1-28-97

GENERAL NOTES

1. ALL DIMENSIONS ARE IN INCHES.
2. ALL BOLT HOLES STRADDLE BOTH NATURAL CENTERLINES.
3. ALL NOZZLES TO BE FLUSH WITH INSIDE CONTOUR OF SHELL & CHANNEL.
4. INSIDE EDGES OF TUBESHEET TUBE HOLES TO BE DEBURRED.
5. NUMBER OF UNITS REQUIRED: (ONE)
6. SHIPPING WT. 5405 LBS:
   FLOODED WT. 7930 LBS:
   BUNDLE WT. 3648 LBS:
7. UNITS ARE TO BE SANDBLASTED PER SSPC-SP6-63, AND PAINTED W/CARBOZINC #11 (C/STL ONLY)

MATERIAL SPECIFICATIONS

SHELL SIDE	PART	TUBE SIDE
SA240-316L	SHELL & BONNET	SA106-B
	GIRTH FLANGES	SA516-70
SA312-316L/SA240-316L	NOZZLE NECKS	SA106-B
SA182-316L/SA105	NOZZLE FLANGES	SA105
SA182-316L	COUPLINGS	SA105
	COVERS	SA516-70
	TUBESHEET	SA240-316L
	GASKETS 1/16" THK	GARLOCK 3300
SA240-316L	BAFFLES	
	TUBES	SA249-316L
SS-316	TIE RODS & SPACERS	
	BOLTS	SA193-B7
	NUTS	SA194-2H
C/STL	SUPPORTS	
SS-304	SUPPORT PADS	
	LINERS	
SA240-316L/321	EXP. JOINT	

NOZZLE SCHEDULE

TAG	SIZE	QTY	SERVICE	TYPE	NECK	REMARK
A	10	1	TUBE INLET	150# RFSO	STD WT	
B	10	1	TUBE OUTLET	150# RFSO	STD WT	
C	20	1	SHELL INLET	150# LJ	1/4" THK	
D	3	1	SHELL OUTLET	150# RFSO	SCH 10	
E	1	1	VENT	150# RFSO	SCH 10	
F	3/4	2	DRAIN	3000# HC	NPT	W/PLUG
G	3/4	1	VENT	3000# HC	NPT	W/PLUG
H	3/4	4	INSTRE. CONN.	3000# HC	NPT	W/PLUG
J	1	3	INSTRE. CONN.	3000# HC	NPT	W/PLUG

DESIGN CONDITIONS

CODE: 1995 ASME SECTION VIII, DIV 1 (95 ADDENDA) TEMA CLASS: B

SQ. FT. OF OUTSIDE TUBE SURFACE 1300

DESIGN & TEST	SHELL SIDE		TUBE SIDE	
DESIGN PRESSURE	FV / 30	PSIG	100	PSIG
DESIGN TEMPERATURE	300	°F	300	°F
TEST PRESSURE	47	PSIG	150	PSIG
CORROSION ALLOW.	NONE	INCH	.0625	INCH
NO. OF PASSES	1		1	
STRESS RELIEVE	NONE		NONE	
RADIOGRAPH	NONE		NONE	

ECOLAIRE

1550 Lehigh Drive, Easton, PA 18042

TITLE 1ST22-192

SERVICE SECOND CROP EVAPORATOR CONDENSER

DRAWN BY: DD	2-12-97	CUSTOMER: ECOLAIRE
CHECKED: C. RUCKERT	2-12-97	CUST PO#: 3927-001
APPROVED: G. KNOELLER	2-12-97	ITEM NO:

SHOP ORDER NUMBER	SCALE	DRAWING NUMBER	REV
701-2189	NTS	C-3070	2

CSE23500

C-9895 #108347