



BILL OF MATERIALS.				
MARK	QUAN.	DESCRIPTION	LENGTH	MATERIAL
1	1	2 3/4" X 96" (ROLLED TO 46" I.D.)	12'-4 1/2" (TRUE)	SA516-GR.70
2	2	3" NOMINAL THICK 2:1 ELLIPSOIDAL HEAD	46" I.D.	SA516-GR.70
3	2	2" - 5/160 PIPE, (0.344" WT)	0'-8 1/2"	SA108-GR.B, SMLS
4	2	2" - 300# RF SO FLANGE		SA-105
5	1	18" XS PIPE (.500" WT)	0'-10 1/2"	SA108-GR.B, SMLS
6	1	18" - 300# RF SO FLANGE		SA-105
7	1	3/4" NOMINAL THICK REPAD	2'-8" O.D.	SA516-GR.70
8	2	2 3/4" X 10"	0'-8 1/2"	SA516-GR.70
9	4	2 3/4" X 10"	0'-10 1/2"	SA516-GR.70
10	8	2 3/4" X 10"	1'-4 1/2"	SA516-GR.70
11	4	WBX35	3'-3"	A36
12	4	E 1" X 10 1/2"	0'-10 1/2"	A36
13	4	1" - 3000# FULL THREAD COUPLING		SA-105

NOZZLE SCHEDULE																
MARK	SERVICE	SIZE	QUAN.	RATING	TYPE	NECK O.D.	WALL	PROJECTION O.S.	REINFORCEMENT I.S.	WELD THICK	WELD "A"	WELD "B"	WELD "C"	ATTACH DETL. #	REMARKS	
A	OUTLET	2"	1	300#	RF SO	2.375	0.344	6"	0.5	N/A	N/A	.375	.5	N/A	2" - 5/160 PIPE, SMLS	
B	INLET	2"	1	300#	RF SO	2.375	0.344	6"	0.5	N/A	N/A	.375	.5	N/A	2" - 5/160 PIPE, SMLS	
C	FULL COUPLING	1"	3	3000#	THR'D	1.75	.22	1.25	.32	N/A	N/A	.313	.25	N/A	FORGED STEEL	
D	MANWAY	18"	1	300#	RF SO	18	.5	8"	.75	.825	32"	.375	.5	.5	3	18" XS PIPE, SMLS
E	DRAIN	1"	1	3000#	THR'D	1.75	.22	1.25	0	N/A	N/A	.313	N/A	N/A	2	FORGED STEEL

- CONSTRUCTION NOTES**
- FLANGE BOLT HOLES TO STRADDLE NORMAL VESSEL CENTERLINES UNLESS NOTED.
  - NOZZLE INSIDE PROJECTIONS SHALL HAVE ROUNDED CORNERS, MINIMUM OF 1/8" RADIUS.
  - DRILL & TAP 1/4" NPT TELLTALE HOLE IN REINFORCING PADS.
  - VESSEL SHALL BE CLEANED INSIDE & OUTSIDE FREE OF DIRT, GRAPE, DEBRIS, WELD SPATTER, LOOSE MILL SCALE, ETC.
  - PROTECT ALL MACHINED SURFACES & THREADED CONNECTIONS WITH A RUST PREVENTIVE BEFORE SHIPMENT.
  - INSTALL PROTECTORS ON ALL OPENINGS BEFORE SHIPMENT.
  - INSIDE PROJECTIONS SHOWN ON NOZZLE SCHEDULE ARE MINIMUM UNLESS NOTED AND ARE MEASURED FROM CENTER OF NOZZLE.
  - OUTSIDE PROJECTIONS SHOWN ON NOZZLE SCHEDULE ARE FROM O.D. OF VESSEL UNLESS NOTED AND MEASURED FROM CENTER OF NOZZLE.

- MATERIAL NOTES**
- SHELL MATERIAL: SA516-GR.70, NORM.
  - HEAD MATERIAL: SA516-GR.70, NORM. TYPE: 2:1 ELLIPSOIDAL
  - NOZZLE MATERIAL: FLANGED: SA-105 NECK: SA-106, GR.B MANWAY: SA-105 NECK: SA-106, GR.B REINFL: SA516-GR.70 COVERS: SA-105
  - WELD FITTINGS: SA-105
  - INTERNAL PIPING: N-A
  - STRUCTURAL: INT: EXT: SUPPOTS: A36 LIFTING: SA516-GR.70
  - PRES-BOLTING: SA-183 GR.7
  - NON-PRES-BOLTING: GASKETS: NON-ASBESTO PAINTING: SHOP COAT PRIMER

**DESIGN DATA**

- DESIGN PER 2004 ASME CODE SECTION VIII DIVISION 1 2008 ADDENDA U STAMP REQ'D.
- MAXIMUM ALLOWABLE WORKING PRESSURE: DESIGN: 500 PSIG AT 650 °F MOMI: 15 °F AT 500 PSIG NEW: PSIG LIM BY: CORR: PSIG AT EXT: PSIG AT
- C.A. SHELL: .0625 HEADS: .0625
- RADIOGRAPHY: EFF: 100% LONG SEAM FULL EFF: 100% GIRTH SEAM FULL
- PHWT: N-A °F
- OPER. PRES.: WEIGHT: TEST PRES.: 650 PSI WEIGHT:

**WELDING PROCEDURES**

MELDED JOINT	PROCEDURE	ALTERNATE
LONG SEAM	1.71	
ROUND SEAM	1.71	
18" NOZZLE	1.71	
SUPPOTS	1.71	
LIFTING LUGS	1.71	
REPAD	1.71	
2" NOZZLES	1.71	
1" NOZZLES	1.71	

**DRAWING APPROVAL**

CUSTOMER: DATE:  PRELIMINARY  APPROVED FOR CONSTRUCTION  APPROVED AS NOTED  REVISED - DESTROY ALL PREVIOUS DWG'S  CERTIFIED AS-BUILT

**SYSTEMS APPROVAL**

G.C. MANAGER: DATE:  APPROVED  NOT APPROVED

ENG. MANAGER: DATE:  APPROVED  NOT APPROVED

AUTHORIZED INSPECTOR REVIEW: DATE:

**REVISIONS**

NO.	REVISION	CHKD	APP'D	DATE
1	CHANGE TO RT1	JRW	DA	05/07
0	ISSUED FOR FABRICATION	JRW	DA	04/07
1	APPROVAL	JRW	DA	03/07

**NAME PLATE DATA**

NATIONAL BOARD NO **116**

CERTIFIED BY **SYSTEMS CONTRACTING CORP**

ELDORADO, AR

500 PSIG @ 650 °F

WAMP

15" F @ 500 PSIG

WDMT

SERIAL NO. 073635-1 | DATE MFG. 05/07

**SYSTEMS CONTRACTING CORP**

ELDORADO, AR

48" O.D. CONDENSATE TANK

FOR:

NO.  REVISION  CHKD  APP'D  DATE

DRWN  SCALE  N.T.S.

DWG. NO. **07-3635-01** REV. NO.

