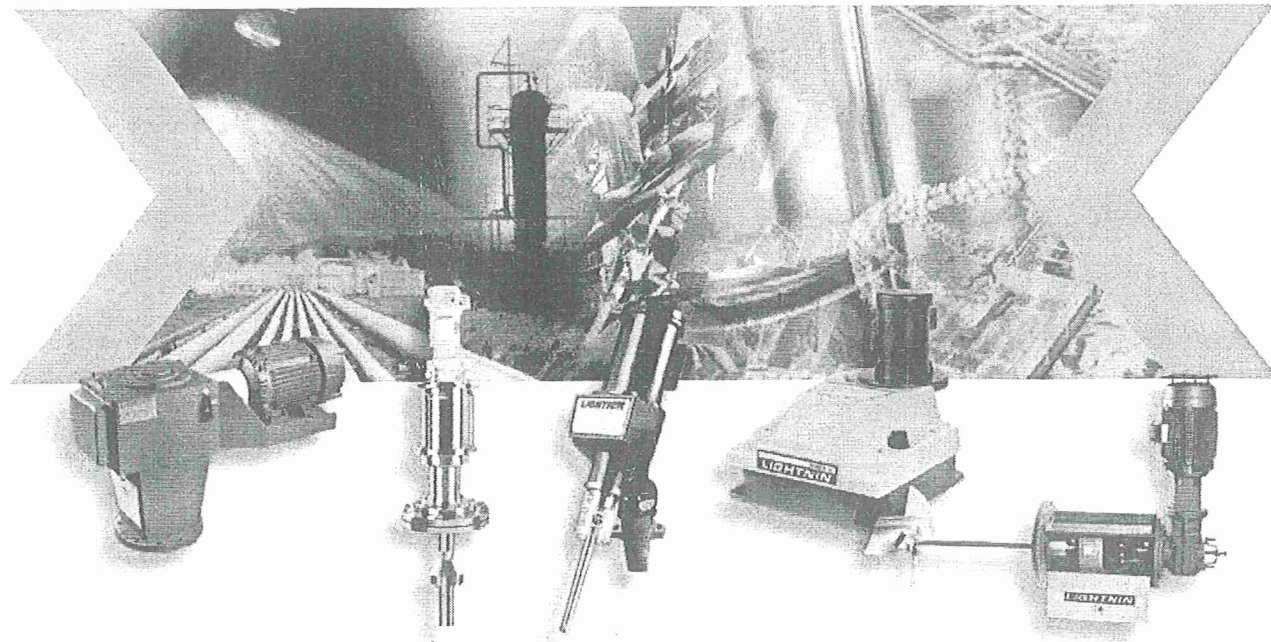


LIGHTNIN
AN SPX BRAND

APPROVAL DRAWING SUBMITTAL



Tagging:
AG-2108 C5 Storage

*AGIT. For
708610*

Ship To Customer: THE UNIVERSITY OF FLORIDA
Bill To Customer: THE UNIVERSITY OF FLORIDA
PO Number: 1100119520
Model: Lightnin Mixer Model X6C50
Order Number: 0001319766
Line Number: 000010

SPX

<http://www.lightninmixers.com>



APPROVAL DRAWING SUBMITTAL
LIGHTNIN SALES ORDER 0001319766
LIGHTNIN LINE ITEM 000010

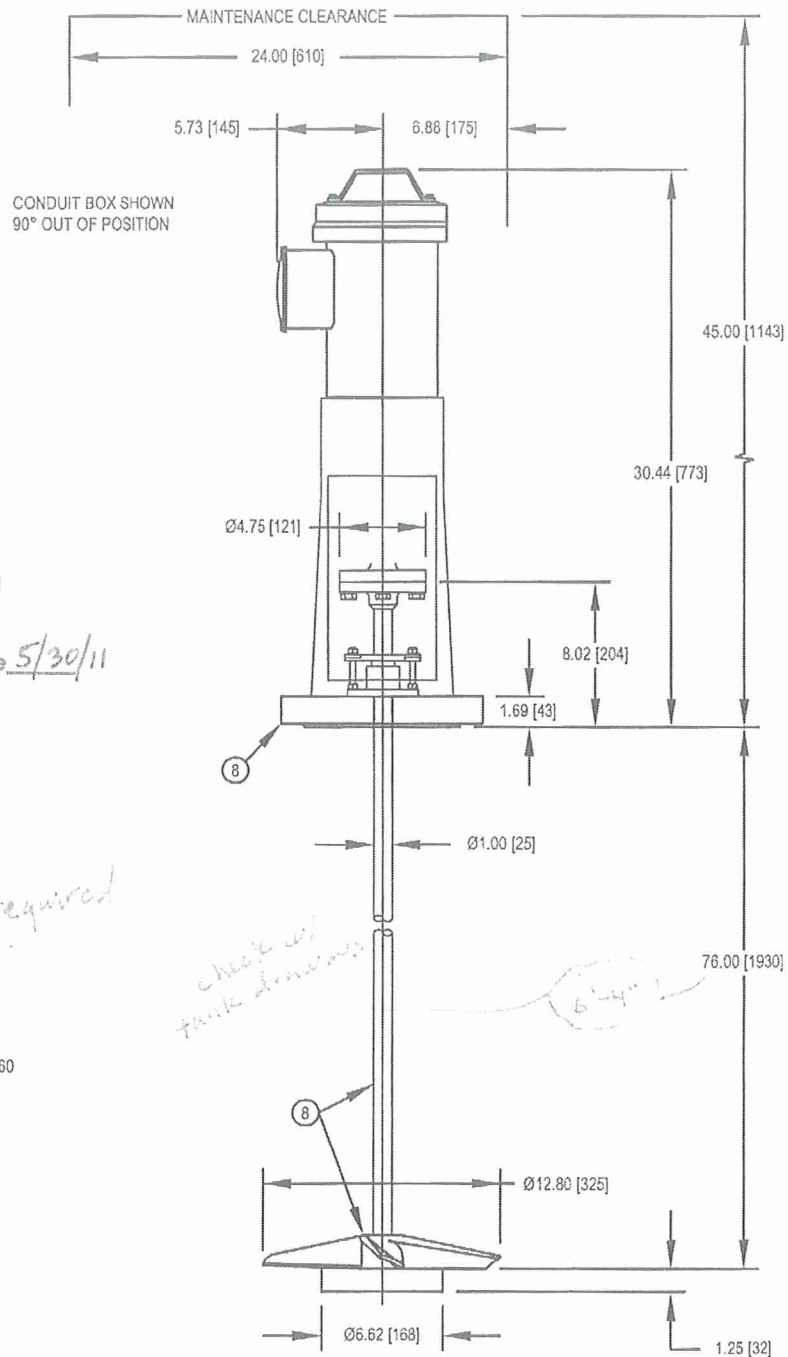
Table of Contents

TITLE	DOCUMENT NO.
General Arrangement Drawing	1319766000010-A
Assembly Drawing X5-X6C-25, 33 & 50	L-18286
Flange and Gasket Proportions	DS-E-571
Stuffing Box Assembly	L-17003
A310 (1 piece) Impeller Assembly	L-16701

For
108610



DATE: 4/28/2011



FOR APPROVAL

- ☐ Approved as Submitted
☒ Approved as Noted
☐ Not Approved

Name TTC Date 5/30/11

NOTES:

- ① MOTOR DATA:
H.P.: 0.500 R.P.M.: 1725
VOLTS: 230/460 PHASE: 3 Hz: 60
ENCLOSURE: TEFC DUTY: INVERTER
IMPELLER SPEED - 280 IMPELLER TYPE - A310
- ② APPROXIMATE TOTAL MIXER WEIGHT IS 153 lb [69 kg]
WEIGHT WILL VARY WITH MOTOR CHARACTERISTICS.
- ③ ALL DIMENSIONS ARE IN INCHES [mm] AND ARE MAXIMUM.
- ④ MIXER MOUNTING DESIGN DATA:
VERTICAL DOWNWARD LOAD: 320 LBS. [1423 N]
TORQUE: 210 IN.-LBS. [24 N·m]
BENDING MOMENT: 3200 IN.-LBS. [362 N·m]
DESIGN LOADS ARE GREATER THAN ACTUAL LOADS
BY A SUITABLE FACTOR, CONSISTENT WITH
CONSTRUCTION CODES AND **LIGHTNIN** EXPERIENCE.
LIGHTNIN WARRANTIES AND GUARANTEES EXTEND
FOR THOSE ITEMS FURNISHED BY IT. ALL OTHER EQUIPMENT
AND DESIGNS ARE THE RESPONSIBILITY OF OTHERS.
- ⑤ UNIT IS FURNISHED WITH A STUFFING BOX.
PACKING MATERIAL: COMBINATION 50
- ⑥ MIXER MOUNTING FLANGE DATA:
150 LB. ANSI SERIES DRILLING
SIZE: 6" O.D.: 11.00 BOLT CIRCLE: 9.50
NO. OF HOLES: 8 BOLT DIA.: 0.75
AS COMMON PRACTICE, FLANGE BOLT HOLES STRADDLE
MIXER CENTERLINE.
- ⑦ MATERIAL OF IN-TANK MIXER PARTS IS 316
- ⑧ 63RA POLISH SUPPLIED ON SHAFT, IMPELLER, AND FLANGE.

For
#108610



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2011

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LIGHTNIN®
MIXERS AND AERATORS

GENERAL ARRANGEMENT

FOR: **THE UNIVERSITY OF FLORIDA**

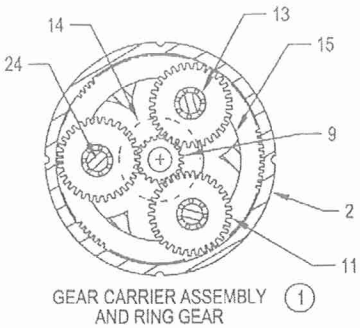
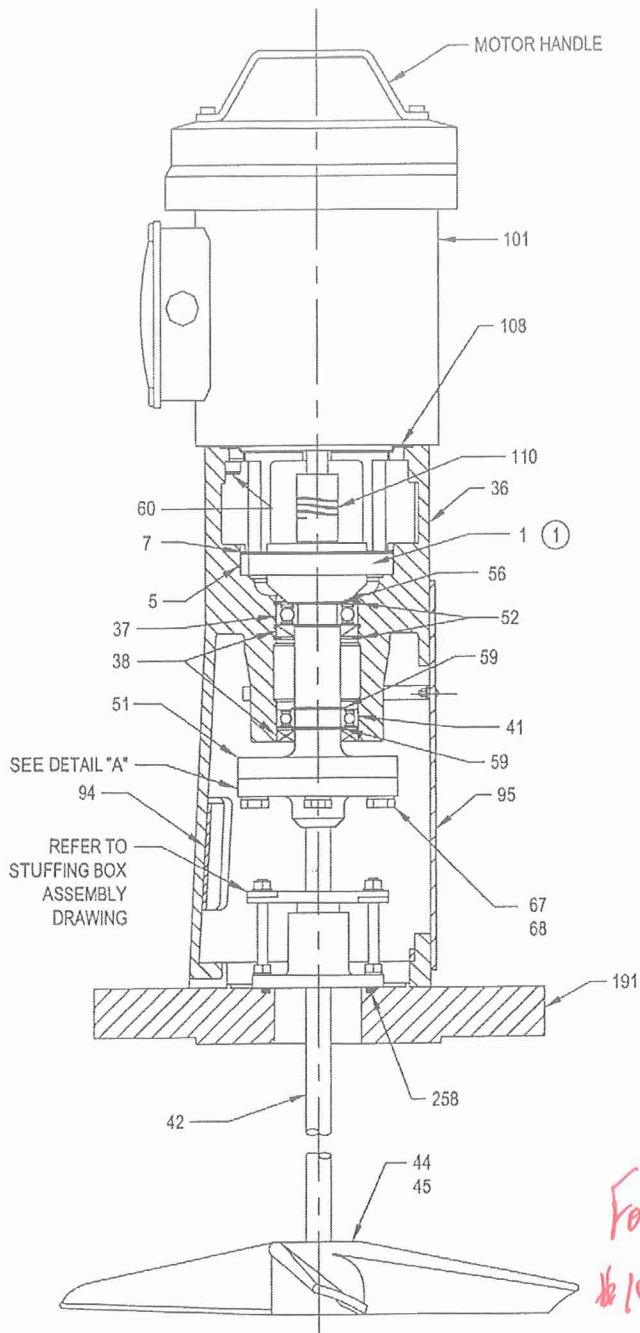
S.O. NO.: 1319766
CUST. P.O. NO.: 1100119520
TAG NO.: AG-2108 C5 Storage
MIXER MODEL: X6C50
SERIAL NO.: 1000002624909

LINE NO.: 10
QUANTITY: 1
RATIO: 6:1

CERTIFIED BY:

DATE:

DRAWING NO. 1319766000010-A



WHEN ORDERING PARTS, SPECIFY:
DRAWING NO., PART NAME, ITEM NO.,
AND MIXER SERIAL NUMBER.

1	GEAR CARRIER ASSEMBLY
2	RING GEAR
5	RING GEAR RETAINING PIN
7	RETAINING RING
9	SUN GEAR
11	PLANET GEAR
12	THRUST WASHER (NOT SHOWN)
13	NEEDLE BEARING
14	COIN
15	CARRIER BODY
16	FLEXIBLE MOUNTING
24	PLANET DOWEL PIN
36	HOUSING
37	BALL BEARING
38	OIL SEAL (2)
41	BALL BEARING
42	IMPELLER SHAFT
44	IMPELLER
45	SET SCREW
51	DRIVE SHAFT
52	RETAINING RING (2)
56	RETAINING RING
59	RETAINING RING (2)
60	SOCKET HEAD CAP SCREW
67	HEX HEAD CAP SCREW
68	LOCKWASHER
94	PEDESTAL BACK GUARD
95	PEDESTAL SAFETY COVER
101	MOTOR
108	GASKET
110	DRIVE COUPLING ASSEMBLY
191	FLANGE
236	REMOVABLE COUPLING
237	KEY
238	THRUST PLATE
239	HEX HEAD CAP SCREW (NYLOK)
258	O-RING

ITEM	PART NAME
------	-----------

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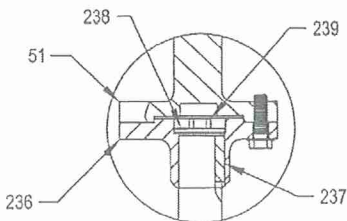
ASSEMBLY DRAWING

**X5C25, X5C33 & X5C50
X6C25, X6C33 & X6C50
GEAR DRIVE ECL
WITH ELECTRIC MOTOR**

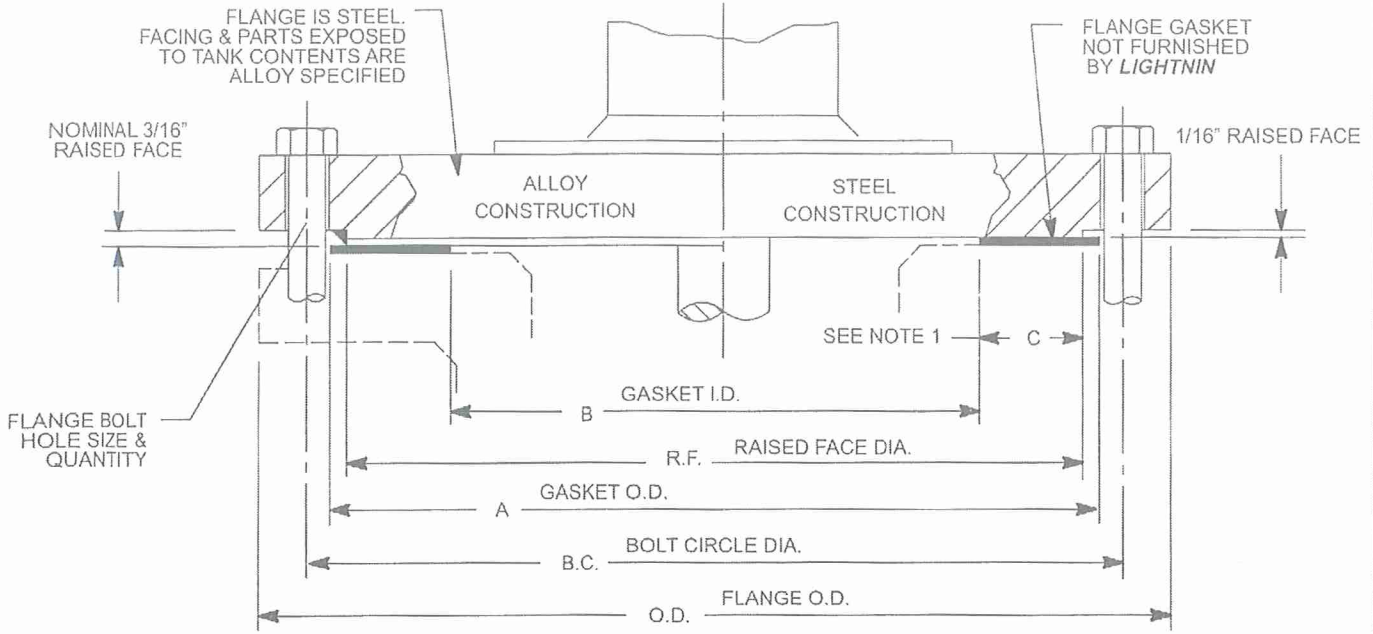
NOTES:

- ① GEAR KIT CONSISTS OF ITEMS 2, 5, 7, 108, 110 AND GEAR
CARRIER ASSEMBLY ITEMS 9, 11, 12, 13, 14, 15, & 24. KIT IS
SOLD AS A SET. INDIVIDUAL ITEMS ARE NOT AVAILABLE.

DETAIL "A"



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2001



- NOTES:
- 1. GASKETS MUST BE SEATED BETWEEN THE RAISED FACES OF THE MIXER AND TANK FLANGE TO EFFECTIVELY SEAL AGAINST PRESSURE, VAPOR LEAKS AND/OR PRODUCT CONTAMINATION. DIMENSION "C" IS THE MINIMUM GASKET CONTACT AREA FOR 150 LB. RAISED FACES.
 - 2. THE STANDARD RING GASKET OUTSIDE DIAMETER EXTENDS TO THE INNER EDGES OF THE FLANGE BOLTS, WHICH ACT AS CENTERING DEVICES.
 - 3. FULL FACE ANSI GASKETS ARE GASKETS WHICH EXTEND TO THE O.D. OF THE FLANGE. FLANGE BOLT CLEARANCE HOLES MUST BE DRILLED IN THIS FULL FACE TYPE GASKET. SEE TABLE FOR HOLE SIZE AND BOLT CIRCLE.
 - 4. GASKETS CAN ALSO BE MADE EQUAL TO THE RAISED FACE (R.F.) DIAMETER WITH THE SAME I.D. AS SHOWN IN THE TABLE (DIM. "B")
 - 5. GASKET MATERIAL AND THICKNESS ARE THE RESPONSIBILITY OF THE USER. THEY MUST BE PRODUCT COMPATIBLE AND SUITABLE FOR ALL SERVICE CONDITIONS.
 - 6. GASKET STYLES OTHER THAN FLAT FACE RING GASKETS ARE AVAILABLE, BUT ARE USUALLY MORE EXPENSIVE. GASKETS FOR FLANGES WITH RATINGS IN EXCESS OF 150 LBS. ARE NOT SHOWN DUE TO VARIABLE DESIGN CONDITIONS ENCOUNTERED. SPECIFICATIONS FOR OTHER THAN RING GASKETS AND HIGHER PRESSURE DESIGNS CAN BE FOUND IN ASME UNFIRE PRESSURE VESSEL CODES OR ANSI STANDARDS.

2

ANSI 150 LB. FLANGE DATA						ANSI RING GASKET DATA			
NOM. SIZE	O.D.	R.F.	B.C.	HOLE QUAN.	HOLE DIA.	A (O.D.)	B (I.D.)	WIDTH	C MIN.
5	10.0	7.31	8.50	8	.88	7.750	5.562	1.094	.88
6	11.0	8.50	9.50	8	.88	8.750	6.625	1.062	.94
8	13.5	10.62	11.75	8	.88	11.000	8.625	1.188	1.00
10	16.0	12.75	14.25	12	1.00	13.375	10.750	1.312	1.00
12	19.0	15.00	17.00	12	1.00	16.125	12.750	1.688	1.12
14	21.0	16.25	18.75	12	1.13	17.750	14.000	1.875	1.12
16	23.5	18.50	21.25	16	1.13	20.250	16.000	2.125	1.25
18	25.0	21.00	22.75	16	1.25	21.625	18.000	1.812	1.50
20	27.5	23.00	25.00	20	1.25	23.875	20.000	1.937	1.50
24	32.0	27.25	29.50	20	1.38	28.250	24.000	2.125	1.62

For #108610



LIGHTNIN 1985

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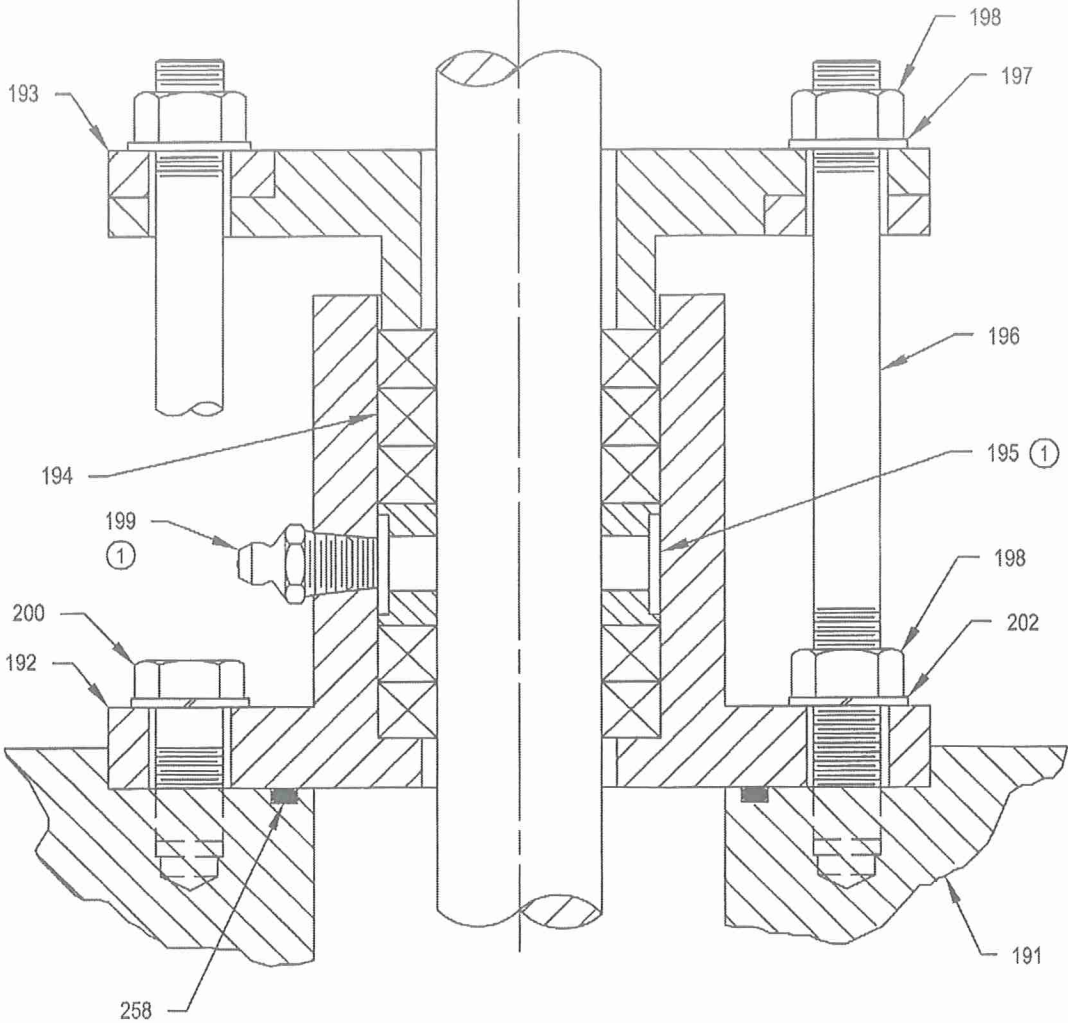
LIGHTNIN

MIXERS AND AERATORS
OUTLINE DIMENSIONS IN INCHES

150 LB. ANSI STANDARD
FLANGE & GASKET
PROPORTIONS

Certified By _____ Date _____

DRAWING NO. DS-E-571B



WHEN ORDERING PARTS, SPECIFY:
DRAWING NUMBER, PART NAME, ITEM NUMBER,
UNIT MODEL & SERIAL NUMBER

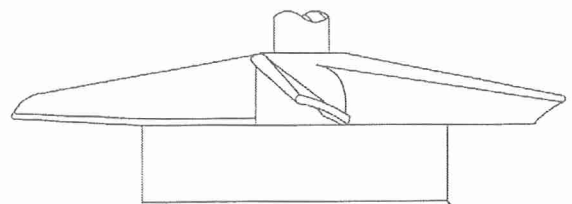
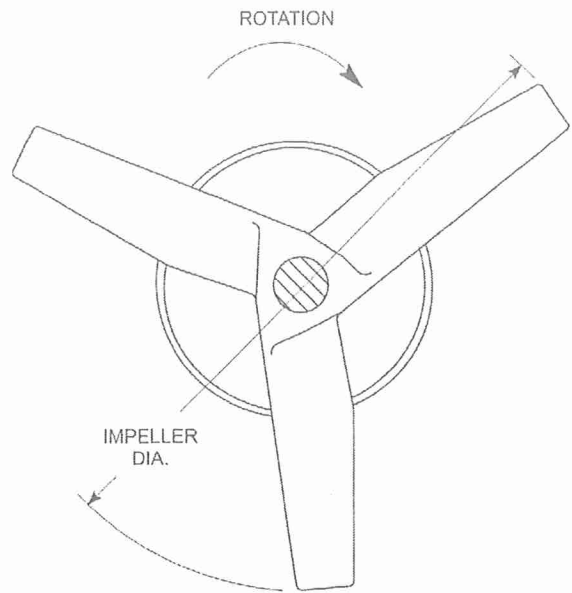
258	SEALING RING
202	LOCKWASHER
200	HEX HEAD CAP SCREW
199	LUBRICANT FITTING ①
198	HEX NUT
197	WASHER
196	GLAND STUD
195	LANTERN RING ①
194	PACKING
193	SPLIT PACKING GLAND
192	STUFFING BOX HUB
191	FLANGE ASSEMBLY
ITEM	PART NAME

NOTE:
① FURNISH ONLY WITH
LUBRICATED STUFFING BOX.

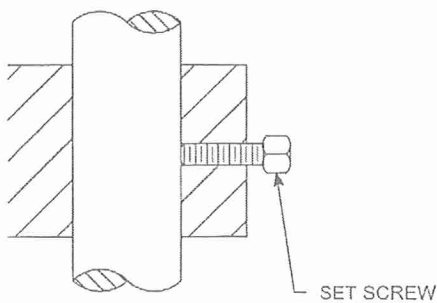


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2007

STANDARD 5 RING STUFFING BOX			
MODEL	SHAFT DIA.	VESSEL PRESSURE	MAXIMUM TEMPERATURE
X1C	1.00	60 PSIG	300° F.
	1.25		
	1.50		
X5C & X6C	1.00	150 PSIG	300° F.
	1.25		
	1.50		
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LIGHTNIN® MIXERS AND AERATORS			
ASSEMBLY DRAWING			
STUFFING BOX ASSEMBLY			



STABILIZER RING
FURNISHED ONLY
WHEN SPECIFIED



SET SCREW

For
#108610

WHEN ORDERING PARTS, SPECIFY:
DRAWING NUMBER, PART NAME, ITEM
NUMBER AND SERIAL NUMBER



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1991

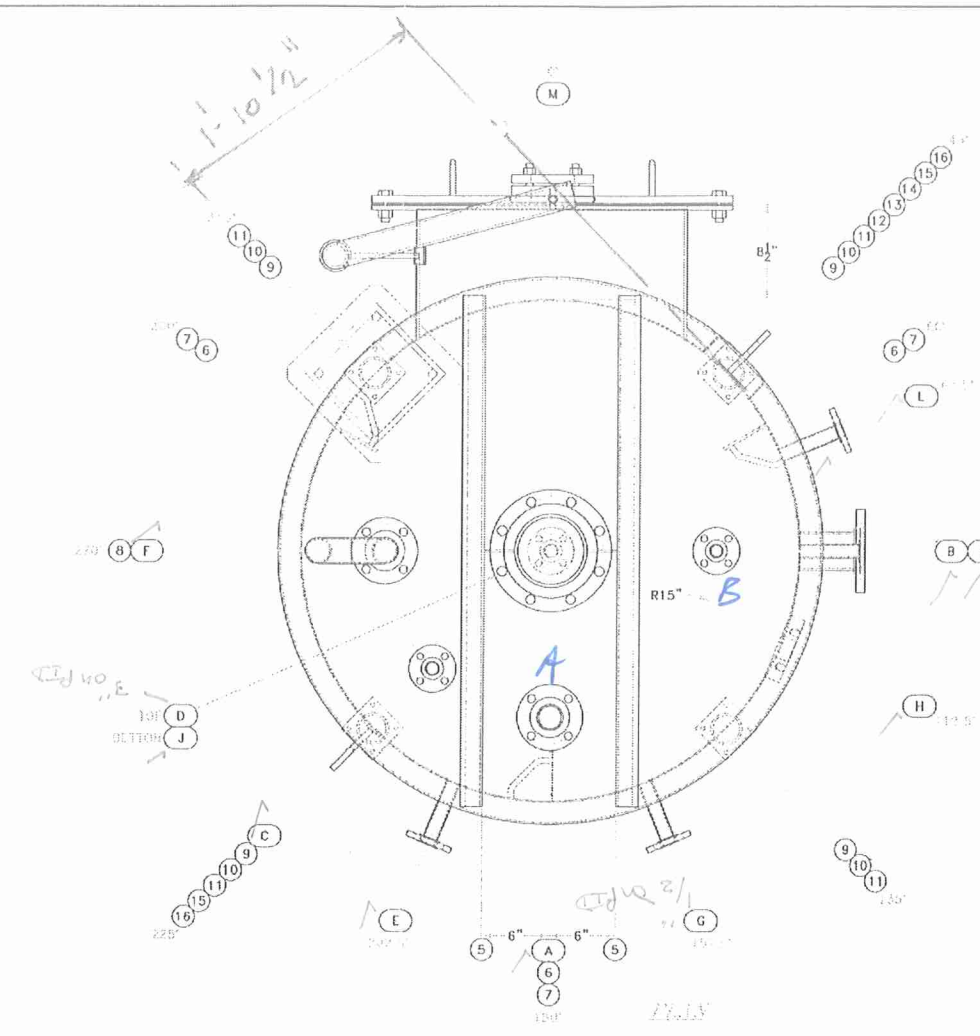
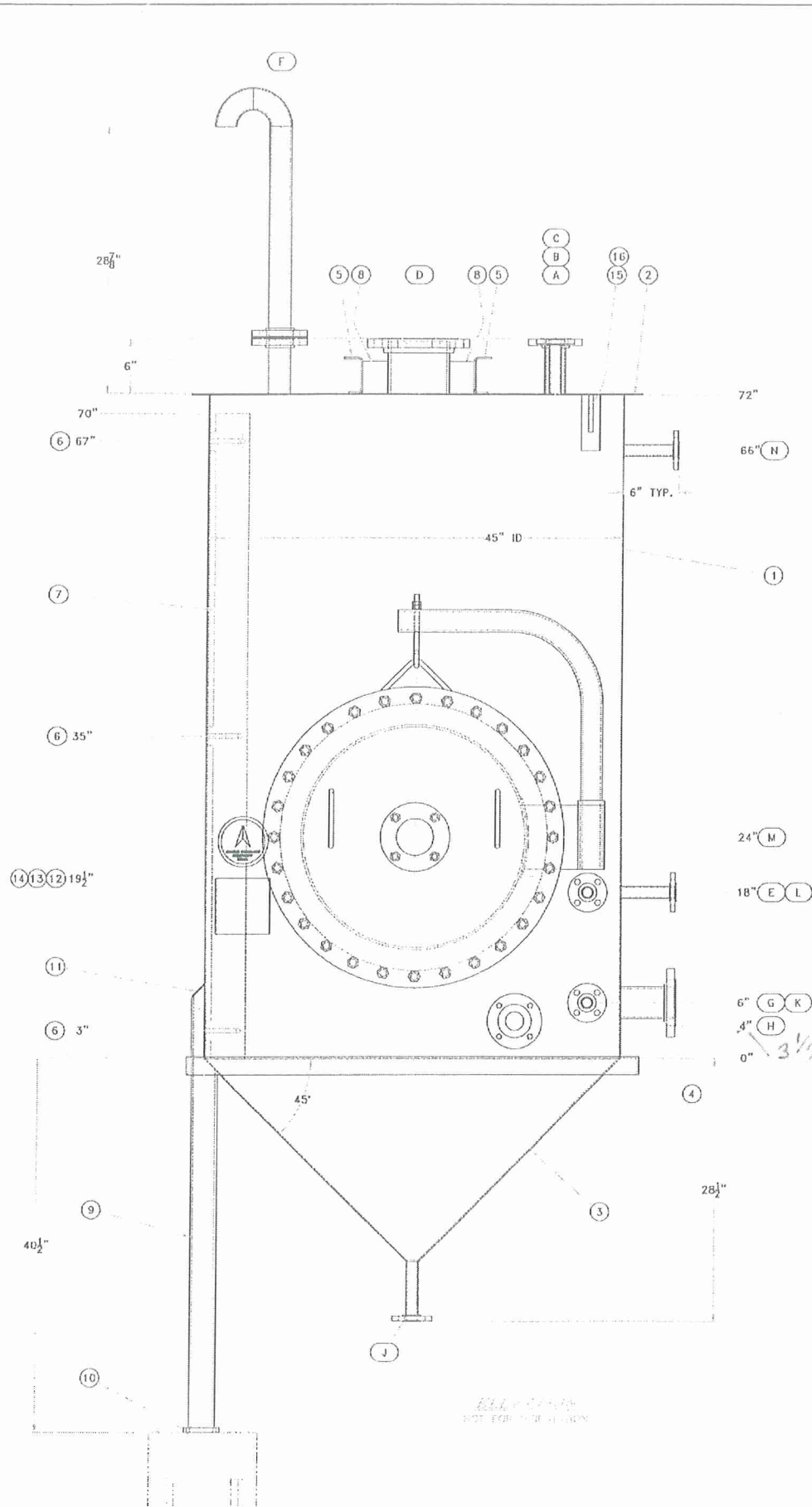
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LIGHTNIN®
MIXERS AND AERATORS

ASSEMBLY DRAWING

A310
AXIAL FLOW IMPELLER

DRAWING NO. L-16701B



FOR APPROVAL
 Approved as Submitted
 Approved as Noted
 Not Approved
 Name T.P.K. Date 3/31/11

1. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE TANK.
 3. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED INTERNAL PRESSURE OF 1.0 PSIG AT 200°F.
 4. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED EXTERNAL PRESSURE OF 1.0 PSIG AT 200°F.
 5. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED VIBRATION OF 0.1 IN/IN AT 200°F.
 6. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED CORROSION OF 0.1 IN/IN AT 200°F.
 7. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED TEMPERATURE OF 200°F.
 8. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED HUMIDITY OF 100% AT 200°F.
 9. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED DUST OF 0.1 IN/IN AT 200°F.
 10. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED SOLID PARTICLES OF 0.1 IN/IN AT 200°F.
 11. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED LIQUID PARTICLES OF 0.1 IN/IN AT 200°F.
 12. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED GAS PARTICLES OF 0.1 IN/IN AT 200°F.
 13. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED RADIATION OF 0.1 IN/IN AT 200°F.
 14. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED ELECTROMAGNETIC INTERFERENCE OF 0.1 IN/IN AT 200°F.
 15. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED ACoustic INTERFERENCE OF 0.1 IN/IN AT 200°F.
 16. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED THERMAL INTERFERENCE OF 0.1 IN/IN AT 200°F.
 17. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED MECHANICAL INTERFERENCE OF 0.1 IN/IN AT 200°F.
 18. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED CHEMICAL INTERFERENCE OF 0.1 IN/IN AT 200°F.
 19. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED BIOLOGICAL INTERFERENCE OF 0.1 IN/IN AT 200°F.
 20. THE TANK SHALL BE DESIGNED TO WITHSTAND A MAINTAINED ENVIRONMENTAL INTERFERENCE OF 0.1 IN/IN AT 200°F.

ITEM	DESCRIPTION	QTY	UNIT
1	SHELL	1	EA
2	TOP COVER	1	EA
3	BOTTOM CONE	1	EA
4	INSULATION RING	1	EA
5	ROOF STIFFENER	1	EA
6	BAFFLE BRACE	1	EA
7	BAFFLE	1	EA
8	GUSSET	1	EA
9	LEG	1	EA
10	FOOT	1	EA
11	LEG CAP	1	EA
12	NAMEPLATE BRACKET	1	EA
13	NAMEPLATE	1	EA
14	LOGO	1	EA
15	LIFT LUG REPAD	1	EA
16	LIFT LUG	1	EA

APACHE STAINLESS EQUIPMENT CORP.
 P.O. BOX 370 2910 APACHE DRIVE
 PUYER WISCONSIN 54467
 PH (715) 344-6638 FAX (715) 344-8811

TS-2108
C5 STORAGE TANK

CUST. P.O. 1100108602 MANF. DRG. NO. 0-7326-01

NOV. SIZE 45" ID X 72" S.W.
 NOV. CAPACITY 548 GALLONS
 DESIGN SPECIFIC GRAVITY 1.0
 DESIGN PRESSURE 1 PSIG/-6" WC AT 200° F
 YEAR COMPLETED 2011

MANUFACTURE DATE (13)
 AGITATOR LOADS BY CUSTOMER

ITEM	REQ'D	DESCRIPTION	MAT'L	DIMENSIONS
3	PIPE	316L 2" SCH 40S		
3	FLANGE	316L 2" 150# RFSS		
2	ELBOW (F)	316L 2" SCH 40 90° L.R.		
1	GASKET	GARLOCK 1/8" THICK FOR 2" FLANGE		
4	HEX HEAD BOLT	SS 5/8"-11UNC X 2-3/4" LONG		
4	HEX NUT	SS 5/8"-11UNC		
B - HOSE CONNECTION, C - SPARE, E - RECIRCULATION, G - SAMPLE PORT, J - PUMP SUCTION, L - TEMPERATURE INDICATION, N - SPARE				
7	PIPE	316L 1" SCH 40S		
7	FLANGE	316L 1" 150# RFSS		
1	FLANGE	316L 1" 150# BLIND		
1	GASKET (C)	GARLOCK 1/8" THICK FOR 1" FLANGE		
4	HEX HEAD BOLT (C)	SS 1/2"-13UNC X 2-1/4" LONG		
4	HEX NUT (C)	SS 1/2"-13UNC		
D - AGITATOR				
1	PIPE	316L 6" SCH 40S		
1	FLANGE	316L 6" 150# RFSS		
H - LEVEL INDICATOR				
1	FLANGE	316L 2" 150# PAD		
K - LEVEL TRANSMITTER				
1	PIPE	316L 3" SCH 40S		
1	FLANGE	316L 3" 150# RFSS		
M - MANWAY				
1	24" MANWAY	316L SEC B-7326-02MW		
1	SIGHT GLASS	316L LUMIGLASS #DIN28120/DN80		

ITEM	REQ'D	DESCRIPTION	MAT'L	DIMENSIONS
1	1	SHELL	316L	10GA 45" ID X 72" SW
2	1	TOP COVER	316L	10GA #49-1/4"
3	1	BOTTOM CONE	316L	10GA 45" ID 45°
4	1	INSULATION RING	304	2x2x3/16" ANGLE, ROLLED
5	2	ROOF STIFFENER	304	3/16" PLATE, FORMED
6	9	BAFFLE BRACE	316L	#1/2" BAR, FORMED
7	3	BAFFLE	316L	10GA
8	2	GUSSET	304	3/16" PLATE
9	4	LEG	CS	2-1/2" SCH 40S
10	4	FOOT	CS	1/2" PLATE 4" X 4"
11	4	LEG CAP	CS	10GA
12	1	NAMEPLATE BRACKET	304	11GA 6"W X 6"H X 3" DP
13	1	NAMEPLATE	SS	APACHE STANDARD
14	1	LOGO	VINYL	APACHE STANDARD
15	2	LIFT LUG REPAD	304	3/16" PLATE 2" X 6"
16	2	LIFT LUG	CS	1/2" PLATE

#108610

APACHE STAINLESS EQUIPMENT CORPORATION
 SUBMITTED FOR
 CUSTOMER APPROVAL

WELD FINISH STANDARDS
 WF = WELD FINISH
 SUFFIX DESCRIPTIONS:
 1 = AS WELDED (RELATIVELY SMOOTH, CONTINUOUS, CRACK AND CREVICE FREE.)
 2 = PASSIVATED
 3 = COLOR CLEANED (NO WELD DISCOLORATION PRESENT) WHEN STRIP GRINDING WITH TRACK

4 = GLASS BEAD
 5 = GRIND SMOOTH (WELDS CLEANED AND RIPPED GROUND OFF, 60 GRIT, BEAD
 6 = RIBBON GRIND FLUSH (WELD AREAS TAPED AND GROUND FLUSH WITH PARENT METAL - MUST SPECIFY GRIT, TAPING NOT REQUIRED WHEN STRIP GRINDING WITH TRACK)

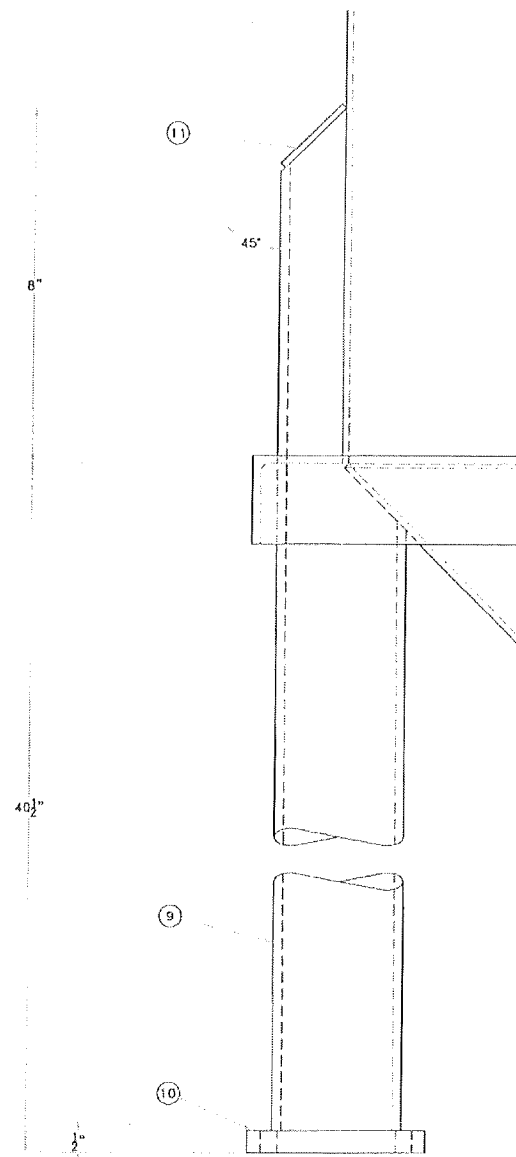
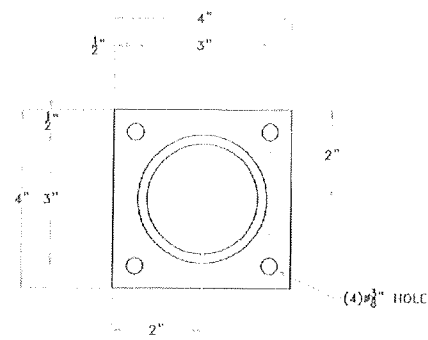
7 = FLUSH GRIND (WELDS GROUND SMOOTH, MARKS DO NOT BLEND WITH PARENT MATERIAL, THOUGH SMOOTHNESS IS THE SAME - MUST SPECIFY GRIT)
 8 = BLENDED (POLISH MARKS ON WELD BLEND WITH PARENT MATERIAL, POLISH MARKS ON PARENT MATERIAL, NO POLISH MARKS PRESENT)

REV.	CN#	DESCRIPTION	BY	DATE	REV.	CN#	DESCRIPTION	BY	DATE

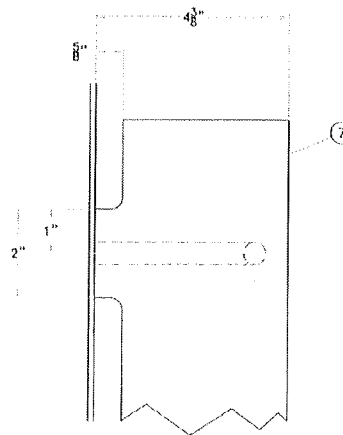
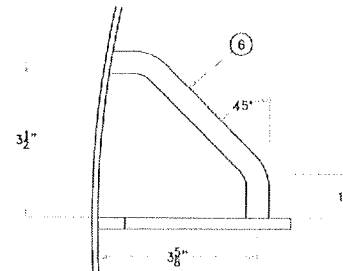
THIS DRAWING INCLUDING THE DESIGN AND PRINCIPLES OF CONSTRUCTION DISCLOSED IS THE PROPERTY OF APACHE STAINLESS EQUIPMENT CORPORATION AND IS SUBMITTED WITH THE UNDERSTANDING THAT IT IS NOT TO BE REPRODUCED NOR COPIED IN WHOLE OR IN PART NOR LOANED OR OTHERWISE COMMUNICATED TO ANY THIRD PARTY NOR USED IN ANY MANNER DETERMINED TO THE INTERESTS OF APACHE, WITHOUT ITS EXPRESS CONSENT. ACCEPTANCE OF THIS DRAWING WILL BE CONSIDERED AS AN AGREEMENT TO THE ABOVE.

UNIVERSITY OF FLORIDA
 PERRY, FL
 1100108602
 1 OF 2

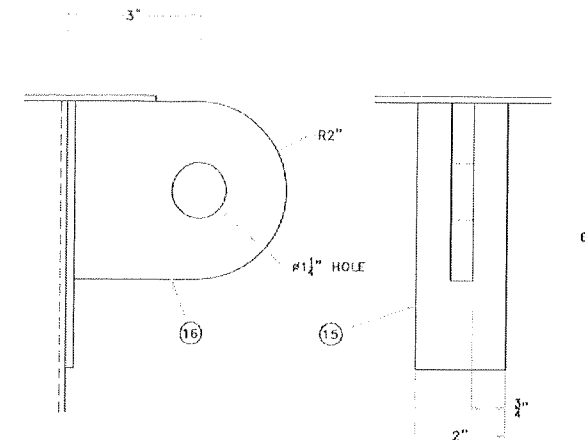
TS-2108
C5 STORAGE TANK
 316L
 SEE DRAWING 0-1000-101
 DRAWN: CHJ JOB NO: 7326
 CHECKED: TJB DATE: 8-9-11
 APPROVED: SCALE: 1 - 1
 D-7326-01



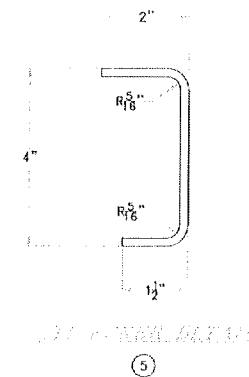
SEE SHEET 1 FOR DETAIL



PREP FLATNESS



PREP FLATNESS



SEE SHEET 1 FOR DETAIL

FOR APPROVAL
☐ Approved as Submitted
☒ Approved as Noted
☐ Not Approved
 Name TFL Date 3/31/11
 see sheet 1 For comments

WELD FINISH STANDARDS WF = WELD FINISH SUFFIX DESCRIPTIONS: 1 = AS WELDED (RELATIVELY SMOOTH, CONTINUOUS, CRACK AND CREVICE FREE) 2 = PASSIVATED 3 = COLOR CLEANED (NO WELD DISCOLORATION PRESENT)		4 = GLASS BEAD 5 = GRIND SMOOTH (WELDS CLEANED AND RIPPED GROUND OFF, TO GRIT, BEAD) 6 = RIBBON GRIND FLUSH (WELD AREAS TAPED AND GROUND FLUSH WITH PARENT METAL - MUST SPECIFY GRIT, TAPPING NOT REQUIRED WHEN STRIP GRINDING WITH TRACK)		7 = FLUSH GRIND (WELDS GROUND SMOOTH, MARKS DO NOT BLEND WITH PARENT MATERIAL, THOUGH SMOOTHNESS IS THE SAME - MUST SPECIFY GRIT) 8 = BLENDED (POLISH MARKS ON WELD BLEND WITH POLISH MARKS ON PARENT MATERIAL, NO POLISH MARKS PRESENT)		REV. CH# DESCRIPTION BY DATE REV. CH# DESCRIPTION BY DATE		UNIVERSITY OF FLORIDA PERRY, FL 1100108602 2 OF 2		TS-2108 C5 STORAGE TANK DETAILS 316L DRAWN: CB JOB NO: 7326 CHECKED: TD DATE: 5-3-11 APP'D: SCALE: 1 = 2		D-7326-01	
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