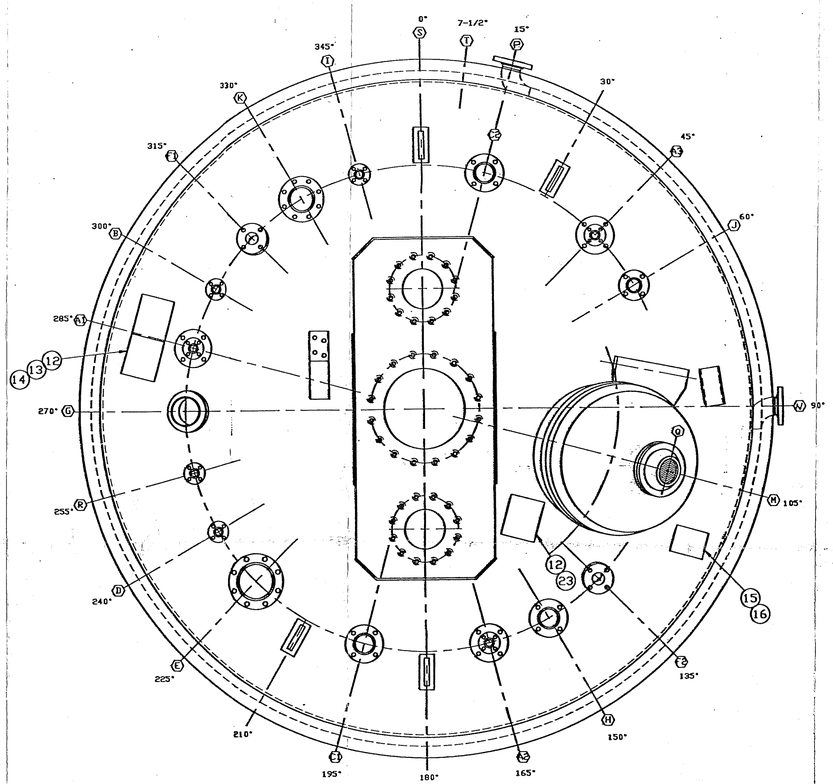
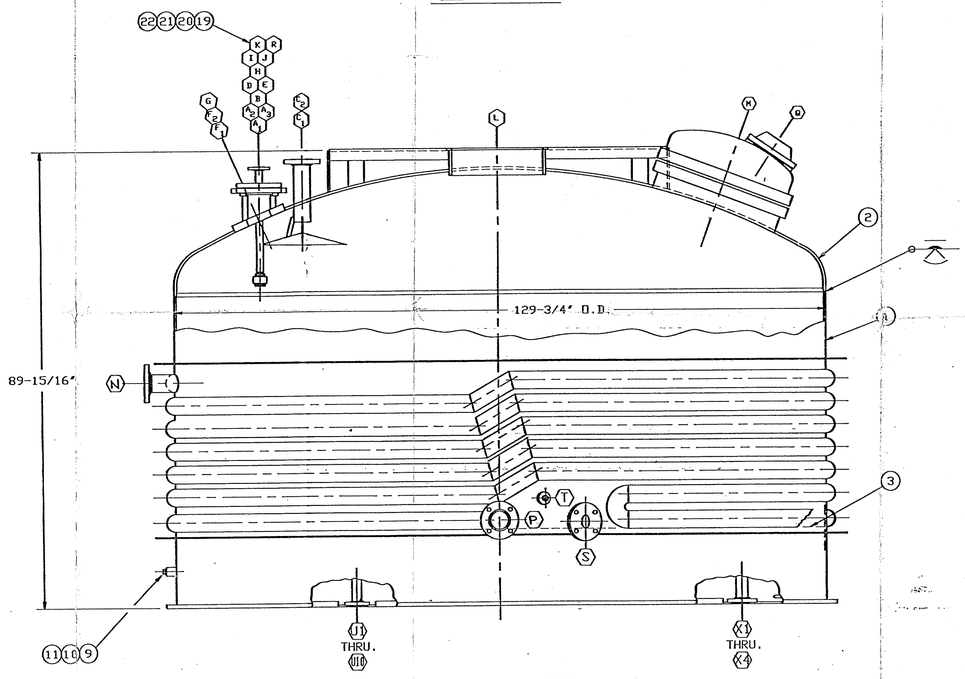


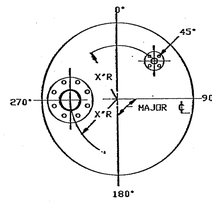

PLAN VIEW




ELEVATION VIEW

SCALE: 1"=1'

CAD REFERENCE NO.
RD00152A




ALL BOLT HOLES STRADDLE MAJOR CENTER LINES UNLESS OTHERWISE SPECIFIED BY NOTE.

REVIEW
Date.

Approval. [signature]
DATE 3/5/91

# ASME CODE SPECIFICATION

| SHELLSIDE OR VESSEL | | TUBESIDE OR JACKET | |
|---|---|---|---|
| DESIGN CONDITIONS: | 50 PSIG -20/370 °F<br>30 in HG -20/370 °F | DESIGN CONDITIONS: | 150 PSIG -20/370 °F<br>30 in HG -20/370 °F |
| OPERATING CONDITIONS: | PSIG °F<br>in HG °F | OPERATING CONDITIONS: | PSIG °F<br>in HG °F |
| CORROSION ALLOWANCE | NONE | CORROSION ALLOWANCE | NONE |
| HYDROSTATIC TEST PRESSURE | 75 P.S.I.G. | HYDROSTATIC TEST PRESSURE | 240 P.S.I.G. |
| RADIOGRAPHY | (SEE NOTE #9) NONE | RADIOGRAPHY | NONE |
| POST WELD H.T. | NONE | POST WELD H.T. | NONE |
| JOINT EFF. HEAD | 1.0 | JOINT EFF. HEAD | |
| SHELL | 0.7 | SHELL | |
| MATERIALS | | MATERIALS | |
| SHELL: | SA-240 304 | SHELL: | SA-240 304 |
| HEAD: | SA-240 304 | HEAD: | |
| FLANGES: | SA-182 304 | FLANGES: | SA-182 304 |
| BOLTING: | SA-193-B7 (CAD PLATED) | BOLTING: | |
| GASKET: | TEFLON ENCAP. VITON/EPDM | GASKET: | |
| INTERNALS: | 304 | INTERNALS: | |
| SUPPORT: | SA-36 C.S. | SUPPORT: | |
| INSULATION: | NONE | INSULATION: | |
| PAINTING: | SEE NOTE #8 | PAINTING: | |

SHIPPING WEIGHT: 18000 LBS. WEIGHT FULL OF WATER: 42,000 LBS.

TRAVELER No. R3
PARA. UHA-51, USC-66(a), UG-20(f)
CALC. ASS'Y No. CA-R6-E

NOTES:

1. ALL NOZZLES TO BE COVERED PRIOR TO SHIPPING VESSEL.
2. THIS VESSEL DESIGNED FOR NON LETHAL SERVICE.
3. 1/8 NPT WEEP HOLES TO BE AT LOWEST POINT WHERE INDICATED.
4. FURNISH CUSTOMER WITH 2 SETS OF MILL TEST REPORTS.
5. REMOVE ALL BURRS, WELDS, SLAG, GREASE AND BREAK SHARP EDGES.
6. PROTECT GASKET SURFACES AND POLISHED MATERIAL SURFACES AT ALL TIMES.
7. ALL INTERIOR WELDS BELOW KR AND ABOVE FILTER PLATES TO BE FLUSH.
8. BEAD BLAST ALL EXTERIOR SURFACES AND APPLY (1) COAT OF SHERVIN-WILLIAMS E65A4 GRAY POLANE PRIMER-SEALER MAX MIL. DFT. AND (1) COAT OF SHERVIN-WILLIAMS POLANE B, No. F63BX-L2270-4373 (ROSENMUND BLUE No.2, MAX MIL. DFT. TO ALL C.S. SURFACES.
9. SPOT X-RAY BOTTOM HEAD E=85, FULL X-RAY TOP HD. E=1.0, SPOT X-RAY TOP HD. TO SHELL JOINT.
10. FABRICATE PER ROSENMUND SPEC. #ES-15175 REV. 3
11. SWEEP INFO: MAX. DEV. .375, CHORD=30.64, RADIUS=64.875
12. DESIGN PER SEISMIC ZONE 2A.
13. THE HEATED FILTER BED CHAMBER IS NOT INCLUDED IN THE CODE STAMPING AND CERTIFICATION.

##16. BLUE #2 POLANE B.
##15. GRAY POLANE SEALER.

| ITEM NO | PART NO. | DRAWING NO. | MATERIAL OR DESCRIPTION | MAT'L SPEC | MAT'L TYPE | QTY/PER | UM |
|---|---|---|---|---|---|---|---|
| 34 | 3600609 | B-3600609 | TEMPLATE-FILTER CLOTH (CENTER) | | B/M | 1. | EA |
| 33 | 3600608 | B-3600608 | TEMPLATE-SUPPORTING SCREEN (CENTER) | | B/M | 1. | EA |
| 32 | 3600607 | B-3600607 | TEMPLATE-METAL FILTER CLOTH (CENTER) | | B/M | 2 | EA |
| 31 | 3600606 | B-3600606 | TEMPLATE-FILTER CLOTH (MIDDLE) | | B/M | 1. | EA |
| 30 | 3600605 | B-3600605 | TEMPLATE-SUPPORTING SCREEN (MIDDLE) | | B/M | 1. | EA |
| 29 | 3600604 | B-3600604 | TEMPLATE-METAL FILTER CLOTH (MIDDLE) | | B/M | 2 | EA |
| 28 | 3600603 | B-3600603 | TEMPLATE-FILTER CLOTH (END) | | B/M | 1. | EA |
| 27 | 3600602 | B-3600602 | TEMPLATE-SUPPORTING SCREEN (END) | | B/M | 1. | EA |
| 26 | 3600601 | B-3600601 | TEMPLATE-METAL FILTER CLOTH (END) | | B/M | 2 | EA |
| 25 | | | TEMPLATES 8m2 P/N 9126248 | | | | |
| 24 | | | | | | | |
| 23 | | | NAMEPLATE, ROSENMUND (FURN. BY ROSENMUND) | | | 1. | EA |
| 22 | 9115372 | | NUT, HEX 5/8-NC (CDA. PLATED) | SA-194-2H | CS | 16 | EA |
| 21 | 9106282 | | STUD, THRD 5/8-NC X 5-1/2 LG. (CAD. PLATED) | SA-193-B7 | CS | 8 | EA |
| 20 | 9103494 | | GASKET, 1/8 THK. X 4-1/2 ID X 6-7/8 OD | | TEF. | 2 | EA |
| 19 | 0100460 | | FLANGE, BLIND 6 150# ANSI | SA-182 | 304 | 1. | EA |
| 18 | 9125065 | | PAINT, SHERVIN-WILLIAMS #F63BX-L2272-4373 ## | | | 1 GAL. | |
| 17 | 9125084 | | PAINT, SHERVIN-WILLIAMS #E65A4 ## | | | 1 GAL. | |
| 16 | 7825410 | | NAMEPLATE, WARNING | | 304 | 1. | EA |
| 15 | 7825410 | B-7825410 | BRACKET, NAMEPLATE | | 304 | 1. | EA |
| 14 | 7005261 | | NAMEPLATE, G.C.D.M.C. FAB. DIV. | | 304 | 1. | EA |
| 13 | 7005273 | B-7005273 | NAMEPLATE, ASME | | 304 | 1. | EA |
| 12 | 1604046 | B-1604046 | BRACKET, NAMEPLATE | | 304 | 3. | EA |
| 11 | 6605912 | | WASHER PLAIN FLAT 1/2" | | 304 | 1. | EA |
| 10 | 6605937 | | WASHER, LOCK 1/2" | | 304 | 1. | EA |
| 9 | 6605077 | | BOLT, HEX 1/2"-13 NC X 1" LG. | | 304 | 1. | EA |
| 8 | | | " | | | | |
| 7 | | | " | | | | |
| 6 | | | " | | | | |
| 5 | | | " | | | | |
| 4 | 9126248 | | TEMPLATES 8m2 | | B/M | 1. | EA |
| 3 | 3600593 | E-3600593 | FILTER PLATE ASSEMBLY 8m2 | | B/M | 1. | EA |
| 2 | 3600591 | E-3600591 | HEAD ASSEMBLY 8m2 | | B/M | 1. | EA |
| 1 | 3600590 | E-3600590 | BASE & SHELL ASSEMBLY 8m2 | | B/M | 1. | EA |

BILL OF MATERIAL PART NUMBER 3600589 — * CUT LENGTH ON THIS B.O.M. FOR REFERENCE ONLY

| REV. | DESCRIPTION | DATE | BY | CHECKED | APPROVED |
|---|---|---|---|---|---|
| G | | | | | |
| F | | | | | |
| E | | | | | |
| D | | | | | |
| C | | | | | |
| B | INTERCHANGE LETTERS N&P | 4-18-91 | | [signature] | |
| A | CUSTOMER CHANGES, ROTATED AGITATOR PLATE AND CHANGED NOZZ C1 & C2 | 2/25/91 | G.M. | [signature] | |

CERTIFIED PRINT
[signature] 4/24/91
Customer Order No. (CAN BE FILLED Partial)
Shop Order No.
GASTON COUNTY DYEING MACHINE CO.
Custom-Stanley, N. C.
Shop Order No.
GASTON COUNTY DYEING MACHINE CO.
Stanley, N. C.

| | | | | | | |
|---|---|---|---|---|---|---|
| X1-X4 | 4 | 2" | 150# | RFSD | 40 | BASE HEAT IN/OUT |
| U1-U10 | 10 | 1-1/2" | 150# | RFSD | 40 | FILTRATE OUT |
| T | 1 | 1/2" | — | — | — | THERMOWELL W/PLUG |
| S | 1 | 3" | 150# | PAD | 40 | SLURRY OUT |
| R | 1 | 1" | 150# | RFSD | 40 | HEADER VENT |
| Q | 1 | 6" | 150# | WELD-IN | — | SIGHTGLASS |
| P | 1 | 3" | 150# | RFSD | 40 | JACKET OUT |
| N | 1 | 3" | 150# | RFSD | 40 | JACKET IN |
| M | 1 | 26-1/2" | 50# | PLATE | .500 | MANWAY |
| L | 1 | 13-3/16" | — | — | — | AGITATOR |
| K | 1 | 4" | 150# | RFSD | 40 | SPARE W/BLIND |
| J | 1 | 2" | 150# | RFSD | 40 | STEAM |
| I | 1 | 2" | 150# | RFSD | 40 | WATER |
| H | 1 | 3" | 150# | RFSD | 40 | VENT |
| G | 1 | 6" | 150# | WELD-IN | — | SIGHTGLASS |
| F1-F2 | 2 | 2" | 150# | PAD | 40 | LIGHT CONNECTION |
| E | 1 | 6" | 150# | RFSD | 40 | SAFETY RELIEF |
| D | 1 | 1" | 150# | RFSD | 40 | PRESSURE GAUGE |
| C1-C2 | 2 | 3" | 150# | RFSD | 40 | PRODUCT INLET |
| B | 1 | 1" | 150# | RFSD | 40 | PRESSURIZATION |
| A1-A3 | 3 | 3/4"/3" | 150# | RFSD | 40 | WASH-SPRAY BALLS |
| No. | QTY. | SIZE | RATING | TYPE | SCHD. | SERVICE/DESCRIPTION |

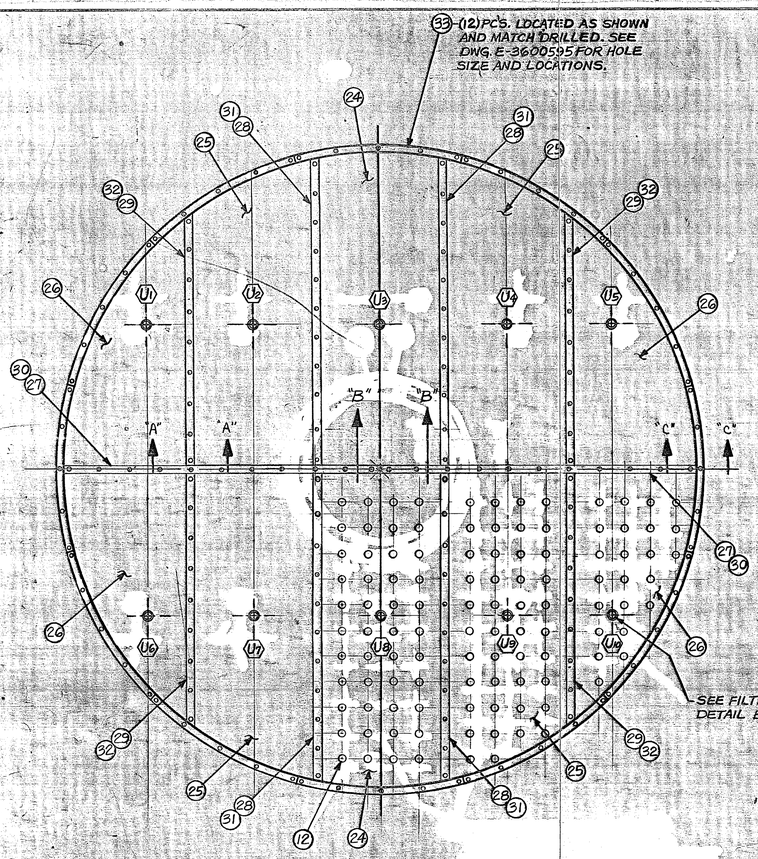
NOZZLE SCHEDULE

FABRICATION DIVISION NAMEPLATE
Serial No. F-80816A-191-1
Size 8m2 Material SA-240 304
Customer P.O. No. 1747
Item No. C-5100

**GASTON COUNTY FABRICATION**
A DIVISION OF GASTON COUNTY DYEING MACHINE COMPANY
STANLEY, NORTH CAROLINA 704 263-4765

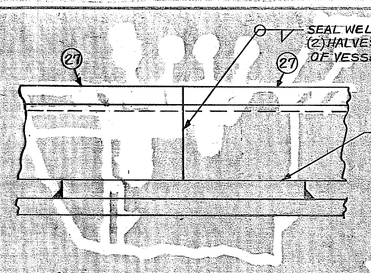
This shop drawing is the property of Gaston County Dyeing Machine Company and is not to be reused without written permission.

CUSTOMER ROSENMUND INC. CHARLOTTE, N.C. FOR SOFIX CORP.
TITLE FINAL ASSEMBLY 8m2
CUSTOMER P.O. NO. 1747 CUSTOMER ITEM NO. C-5100
DRAWN BY G.M. DATE 1/23/91 CHECKED BY [signature] DATE 4-24-91
SHOP ORDER NO. F-80816A NO. REQUIRED 1 SHEET 1 OF 1
SCALE 1"=12" No. E-3600589 REV. B



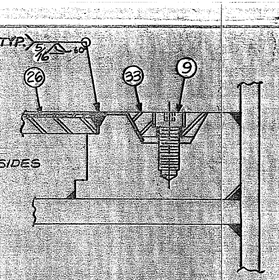

FILTER PLATE LOCATIONS

N.T.S.



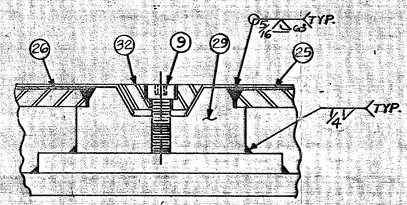

SECTION "B-B"

N.T.S.



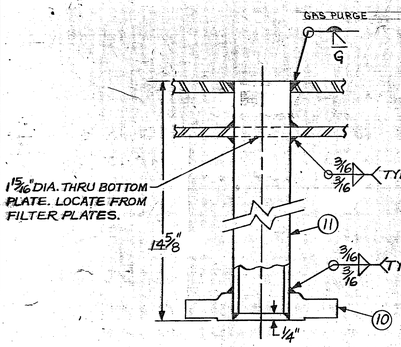

SECTION "C-C"

N.T.S.




SECTION "A-A"

N.T.S.

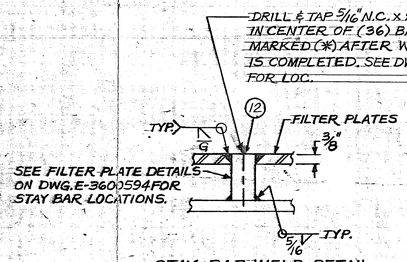



U1 thru U10 FILTRATE OUTLET

1/2" = 1"

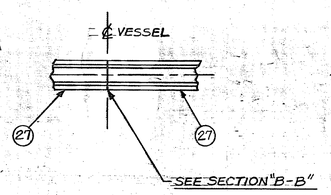
(12) STAY BAR - (348) REQ'D.

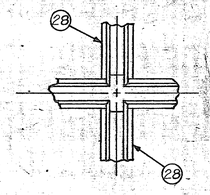
1" = 1"




STAY BAR WELD DETAIL

1/2" = 1"

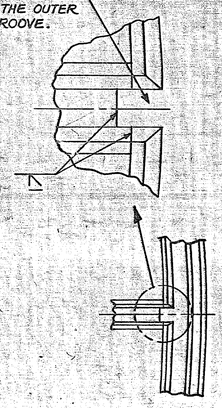



BOTTOM FILTER SUPPORT

N.T.S.

THE NOTCH AT END OF SUPPORT BARS TO BE THE SAME DEPTH AS THE OUTER & INNER RING GROOVE.



| ITM NO. | QTY. | DESCRIPTION | MATERIAL | G.C. PART NO. | DRAWING NO. | QTY./PER. |
|---|---|---|---|---|---|---|
| | 1 | OUTER TIGHTENING RING | SA-240-304 | | E-3600595 | 1 |
| | 4 | END FILTER SCREEN CLAMP | SA-240-304 | | E-3600596 | 4 |
| | 4 | MIDDLE FILTER SCREEN CLAMP | SA-240-304 | | E-3600596 | 4 |
| | 2 | CENTER FILTER SCREEN CLAMP | SA-240-304 | | E-3600596 | 2 |
| | 4 | END FILTER SUPPORT BAR | SA-240-304 | | E-3600596 | 4 |
| | 4 | MIDDLE FILTER SUPPORT BAR | SA-240-304 | | E-3600596 | 4 |
| | 2 | CENTER FILTER SUPPORT BAR | SA-240-304 | | E-3600596 | 2 |
| | 4 | END FILTER PLATE | SA-240-304 | | E-3600594 | 4 |
| | 4 | MIDDLE FILTER PLATE | SA-240-304 | | E-3600594 | 4 |
| | 2 | CENTER FILTER PLATE | SA-240-304 | | E-3600594 | 2 |
| | | (ITEMS ABOVE FOR DWG. REF. ONLY) | | | | |
| | 348 | BAR, RND. 3/4" O.D. X 13/8" LG. | SA-479-304 | 5108000 | | 42.000 |
| | 10 | PIPE, 1 1/2" SCH. 40 X 14 1/2" LG. | SA-312-304/304L | 5230000 | | 13.000 |
| | 10 | FLANGE, R.F.S.O. 1 1/2" 150# ANSI | SA-182-304 | 0100505 | | 10 |
| 9 | 160 | CAP SCREW, HEX SOC. HD. 5/16" NC. X 3/4" LG. | 316 | 9102213 | | 1.10 |
| | | FILTER PLATE RINGS | | 3600595 | E-3600595 | |
| | | SUPPORT & CLAMP BARS | | 3600596 | E-3600596 | |
| | | FILTER PLATE DETAILS | | 3600594 | E-3600594 | |

BILL OF MATERIAL P/N 3600593

| REV. | DESCRIPTION | DATE | BY | CHECKED | APPROVED |
|---|---|---|---|---|---|
| B | REMOVE ITM. 34; EXTEND ITMS. 27 & 30 | 3-6-91 | MKM | | |
| A | P/N FOR 9 WAS 9106078 | 2-6-91 | RSM | | |

CERTIFIED PRINT
Customer Order No.
Shop Order No.
GASTON COUNTY DYEING MACHINE CO.
Stanley, N. C.

ASME CODE

| APPROVAL | DATE |
|---|---|
| W. Mall | 3/5/91 |
| APPROVAL | DATE |

| NO. | QTY. | SIZE | RATING | TYPE | SCH. | SERVICE/DECRIPTION |
|---|---|---|---|---|---|---|

NOZZLE SCHEDULE

GASTON COUNTY FABRICATION
A DIVISION OF GASTON COUNTY DYEING MACHINE COMPANY
STANLEY, NORTH CAROLINA 704-263-4765

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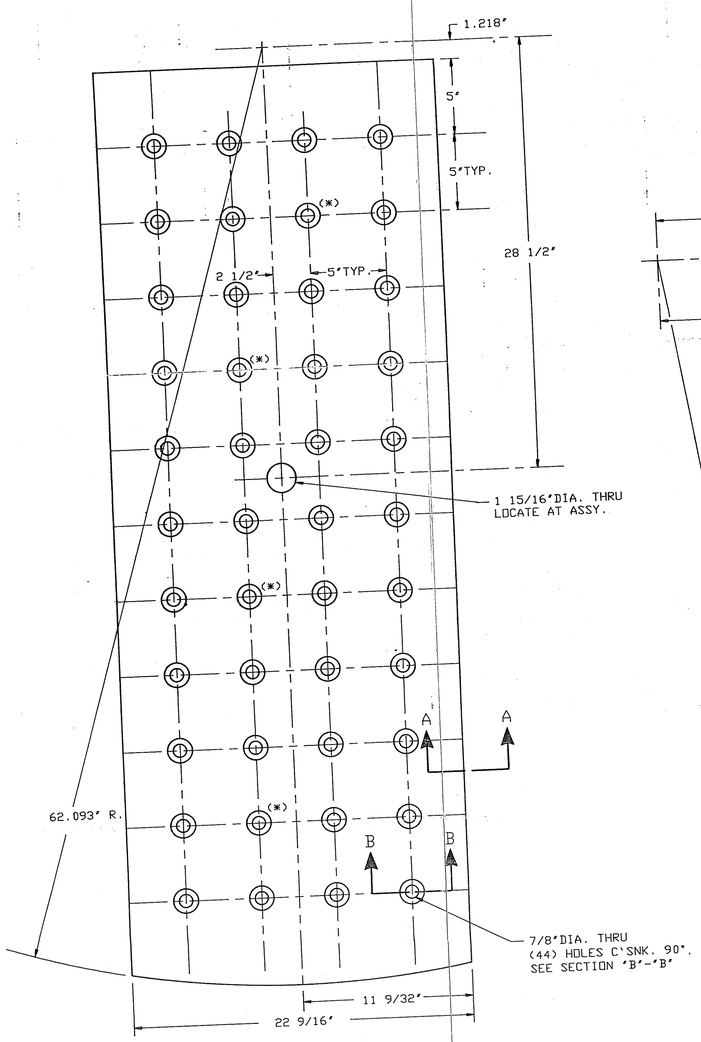
CUSTOMER ROSENMUND INC., CHARLOTTE, N.C. FOR SOFIX

TITLE SIMPLE HEATED FILTER PLATE ASSY.

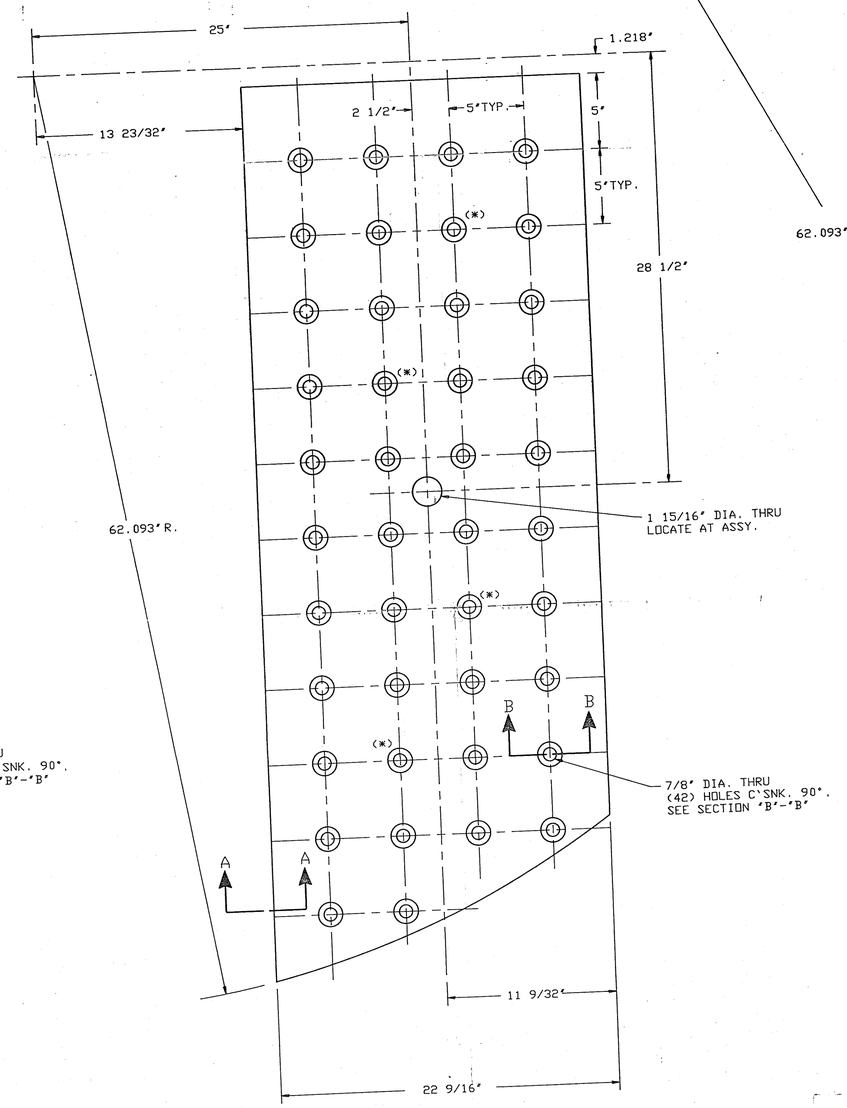
| CUSTOMER P.O. NO. | 1747 | CUSTOMER ITEM NO. | C5100 |
|---|---|---|---|
| DRAWN BY | M. McINTOSH | DATE 1-9-91 | CHECKED BY | DATE 1/21/91 |
| SHOP ORDER NO. | F-80816A | NO. REQUIRED | 1 | SHEET 1 OF 1 |
| SCALE | NOTED | No. E-3600593 | REV. B |




1 CENTER FILTER PLATE

SCALE-3'=1'

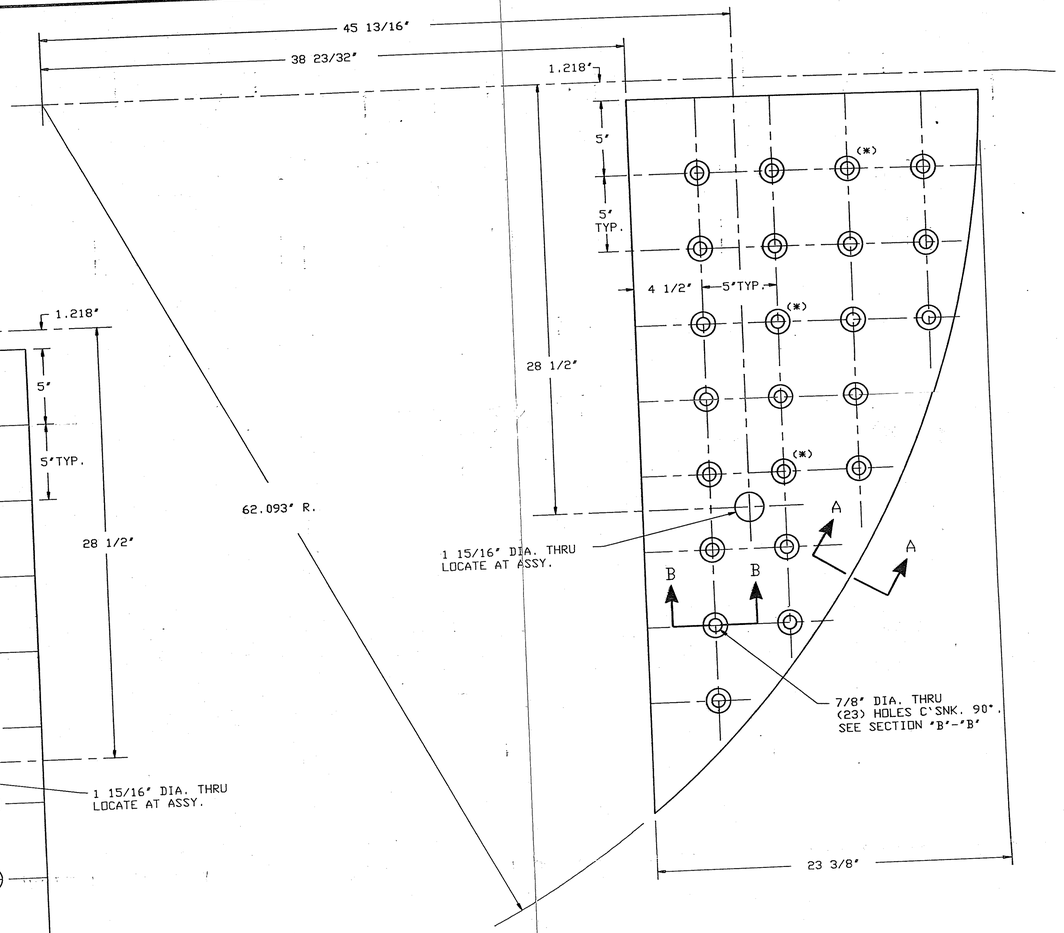
(1)REQ'D. AS SHOWN
(1)REQ'D. OPPOSITE HAND




2 MIDDLE FILTER PLATE

SCALE-3'=1'

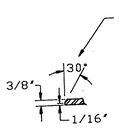
(2)REQ'D. AS SHOWN
(2)REQ'D. OPPOSITE HAND



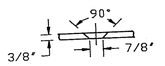

3 END FILTER PLATE

SCALE-3'=1'

(2) REQ'D. AS SHOWN
(2) REQ'D. OPPOSITE HAND




SECTION A-A




SECTION B-B

NOTE:
ALL HOLES WITH (*) SYMBOL
ARE TO HAVE STAY BARS
WITH TAPPED HOLES AT ASSY.

CERTIFIED PRINT
Larry Robinson 3/7/91
Customer Order No.
Shop Order No.
GASTON COUNTY DYEING MACHINE CO.
Stanley, N. C.

| ITEM NO | PART NO. | DRAWING NO. | MATERIAL OR DESCRIPTION | MATERIAL SPEC | MAT'L TYPE | QTY/PER | U/M |
|---|---|---|---|---|---|---|---|
| 003 | 9120027 | | PLATE,3/8' X 64' X 128' LG. | SA-240 | 304 | .5860 | U/M |
| 002 | 9120027 | | PLATE,3/8' X 64' X 128' LG. | SA-240 | 304 | .6939 | U/M |
| 001 | 9120027 | | PLATE,3/8' X 64' X 128' LG. | SA-240 | 304 | .3567 | U/M |

BILL OF MATERIAL PART NUMBER

* CUT LENGTH ON THIS B.O.M.
FOR REFERENCE ONLY

| REV. | DESCRIPTION | DATE | BY | CHECKED | APPROVED |
|---|---|---|---|---|---|
| G | | | | | |
| F | | | | | |
| E | | | | | |
| D | | | | | |
| C | | | | | |
| B | | | | | |
| A | REMOVE INNER RAD. FROM CENTER PLATE | 3-6-91 | M.K.M. | | |

**GASTON COUNTY FABRICATION**
A DIVISION OF GASTON COUNTY DYEING MACHINE COMPANY
STANLEY, NORTH CAROLINA 704 263-4765

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CUSTOMER ROSENMUND INC. CHARLOTTE, N.C. FOR SOFIX CORP.

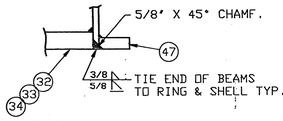
TITLE ILTER PLATE DETAILS, SIMPLE HEAT 8M2 FILTER VESSEL

CUSTOMER P.O. NO. 1747 | CUSTOMER ITEM NO. C5100

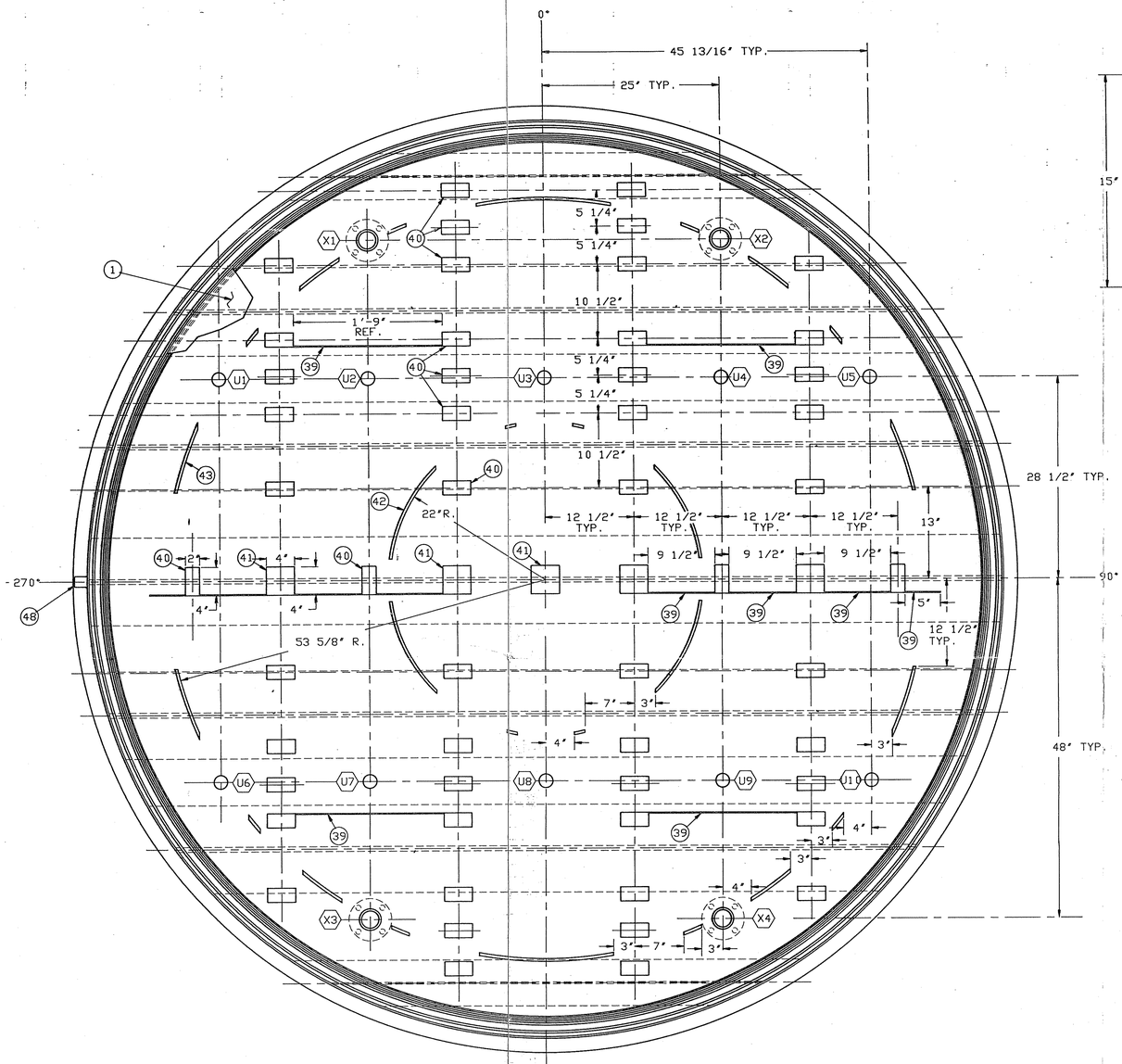
DRAWN BY H.K.M. | DATE 1-9-91 | CHECKED BY | DATE

SHOP ORDER NO. F-80816 | NO. REQUIRED 1 | SHEET 1 OF 1

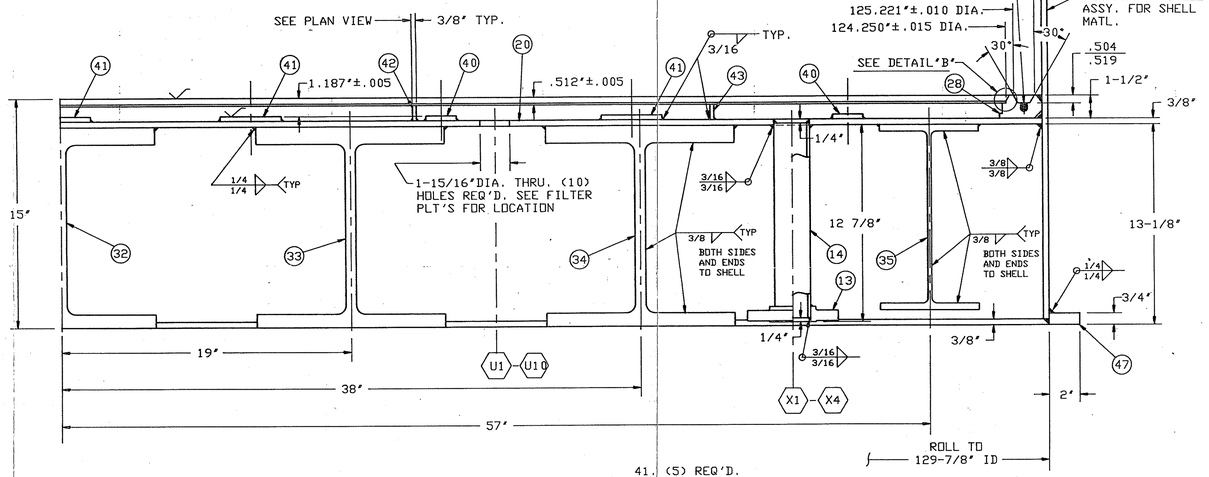
SCALE 3'=1' | No.E-3600594 | REV. A




SECTION "C"-"C"
N.T.S.




PLAN VIEW
1/8"=1"




BED SECTION DETAIL
1/4"= 1"

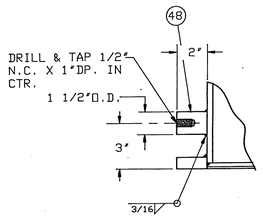
41. (5) REQ'D.
40. (52) REQ'D.
(**)28. +0 -3/16 X 1 3/4"THK.

| ITEM NO | PART NO. | DRAWING NO. | MATERIAL OR DESCRIPTION | MATERIAL SPEC | MAT'L TYPE | QTY/PER UM |
|---|---|---|---|---|---|---|
| 055 | | | | | | |
| 054 | | | | | | |
| 053 | | | | | | |
| 052 | | | | | | |
| 051 | | | | | | |
| 050 | | | | | | |
| 049 | | | | | | |
| 048 | 51 7000 | | BAR,RND. 1 1/2" D.D. X 2" LG. | SA-479 | 304 | .167 |
| 047 | 50 2000 | | BAR,FL. 3/4" X 2" X 34'-6 5/16" LG. | SA-479 | 304 | 36.0 |
| 046 | | | PREP. PARTS - P.N.9126247 | | | |
| 045 | | | | | | |
| 044 | | | | | | |
| 043 | 50 9000 | | BAR,FL. 3/8" X 1 1/2" X 28'-2 1/16" LG. | SA-479 | 304 | 30.0 |
| 042 | 50 9000 | | BAR,FL. 3/8" X 1 1/2" X 11'-7 3/8" LG. | SA-479 | 304 | 12.0 |
| 041 | 65 5038 | | PLATE,1/2" THK. X 4" X 4" LG. (**) | SA-240 | 304 | .0035 |
| 040 | 65 5038 | | PLATE,1/2" THK. X 2" X 4" LG. (**) | SA-240 | 304 | .0181 |
| 039 | 65 5017 | | SHEET,11 GA. X 95/16" X 14'-0" LG. (APPROX.) | SA-240 | 304 | .023... |
| 038 | | | BAFFLES & BLOCKS - P.N. 9126246 | | | |
| 037 | | | | | | |
| 036 | | | | | | |
| 035 | 91 01831 | | BEAM,I 12" X 31.8 LB./FT. X 71 3/4" LG. | SA-36 | C.S. | 2 |
| 034 | 91 25193 | | BEAM,12" W F 120 LB. X 112 1/2" LG. | SA-36 | C.S. | 2 |
| 033 | 91 25192 | | BEAM,12" W F 120 LB. X 126 3/8" LG. | SA-36 | C.S. | 2 |
| 032 | 91 25192 | | BEAM,12" W F 120 LB. X 129" LG. | SA-36 | C.S. | 1 |
| 031 | | | SUPPORT BEAMS - P.N. 9126245 | | | |
| 030 | | | | | | |
| 029 | | | | | | |
| 028 | 91 24949 | | RING,129"O.D.+3/16 -0 X 123 1/4"I.D. (**) | SA-240 | 304 | 1 |
| 027 | | | OUTER SUPPORT RING - P.N. 9126244 | | | |
| 026 | | | | | | |
| 025 | | | | | | |
| 024 | | | | | | |
| 023 | | | | | | |
| 022 | | | | | | |
| 021 | | | | | | |
| 020 | 91 25194 | | DISC,129"O.D.+1/8 -0 X 3/8" THK. | SA-240 | 304 | 1 |
| 019 | | | FLAT HEAD - P.N. 9126242 | | | |
| 018 | | | | | | |
| 017 | | | | | | |
| 016 | | | | | | |
| 015 | | | | | | |
| 014 | 52 31000 | | PIPE,2" SCH. 40 X 12 7/8" LG. | SA-312 | 304 | 4.3000 |
| 013 | 01 00506 | | FLANGE,R.F.S.O. 2"-150# ANSI | SA-182 | 304 | 4 |
| 012 | | | | | | |
| 011 | | | | | | |
| 010 | | | | | | |
| 009 | | | | | | |
| 008 | | | | | | |
| 007 | | | PREP. PARTS - P.N. 9126247 | | | |
| 006 | | | BAFFLES & BLOCKS - P.N. 9126246 | | | |
| 005 | | | SUPPORT BEAMS - P.N. 9126245 | | | |
| 004 | | | OUTER SUPPORT RING - P.N. 9126244 | | | |
| 003 | | | CENTER DISC - P.N. 9126243 | | | |
| 002 | | | FLAT HEAD - P.N. 9126242 | | | |
| 001 | 3600593 | E-3600593 | FILTER PLATE ASSY. | B/M | 304 | 1 |

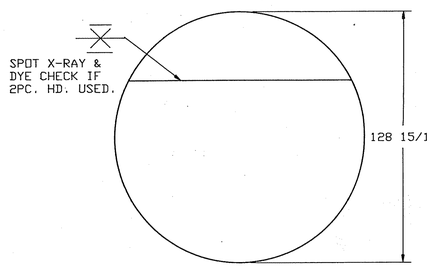
BILL OF MATERIAL PART NUMBER

* CUT LENGTH ON THIS B.O.M. FOR REFERENCE ONLY

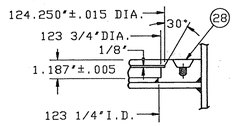
| REV. | DESCRIPTION | DATE | BY | CHECKED | APPROVED |
|---|---|---|---|---|---|
| G | | | | | |
| F | | | | | |
| E | | | | | |
| D | | | | | |
| C | | | | | |
| B | | | | | |
| A | DELETE CENTER DISC ITM.24;CHG. QTY ITM.41 | 3-6-91 | M.K.M. | | |



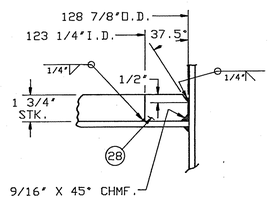

GROUNDING LUG DETAIL
N.T.S.




20 FLAT HEAD DETAIL
N.T.S.




DETAIL "B"




OUTER RING ROUGH MACH'G. DETAIL

ASME CODE
CODE SPEC
DATE
REV DATE APP.

CERTIFIED PRINT
Customer Order No.
Shop Order No.
GASTON COUNTY DYEING MACHINE CO.
Stanley, N. C.

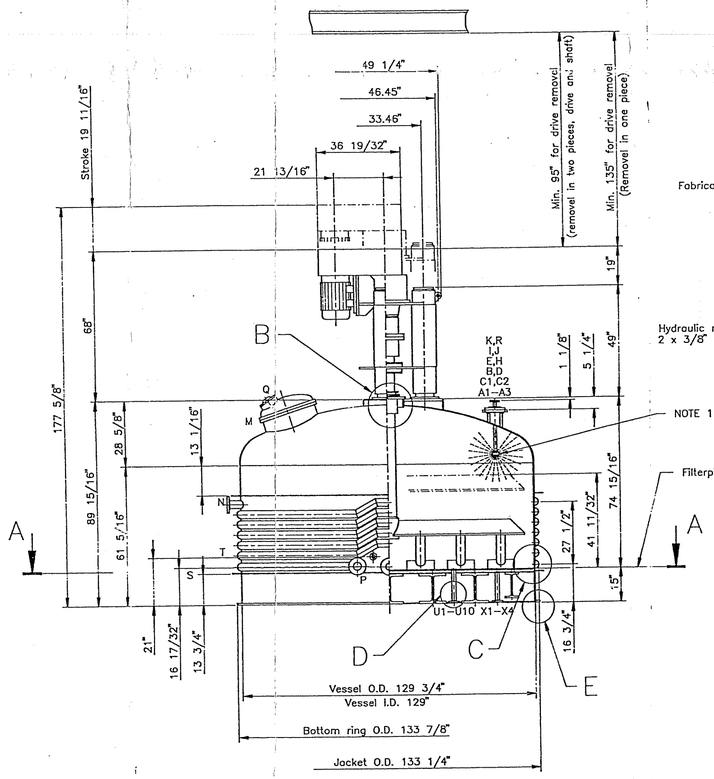
CAD REFERENCE NO. RD00147A

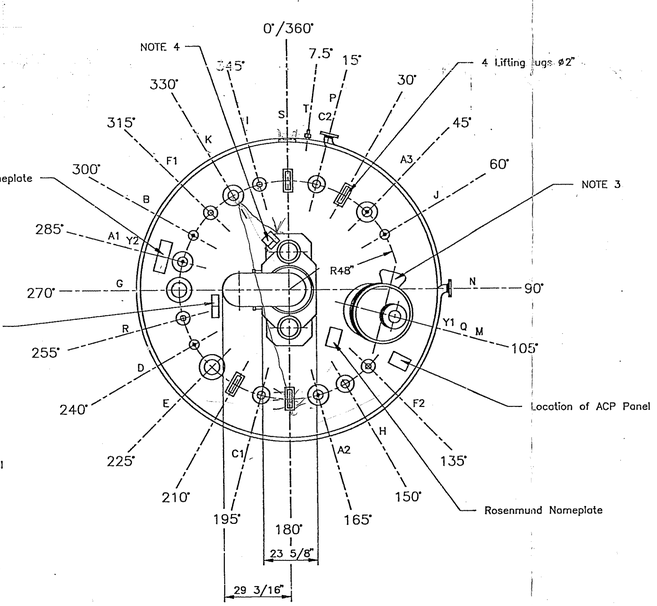
**GASTON COUNTY FABRICATION**
A DIVISION OF GASTON COUNTY DYEING MACHINE COMPANY
STANLEY, NORTH CAROLINA 704-263-4765

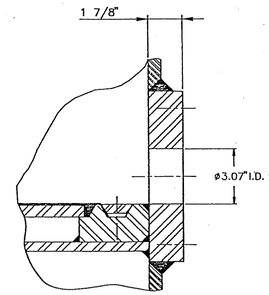
This shop drawing is the property of Gaston County Dyeing Machine Company and is not to be reused without written permission.

CUSTOMER ROSEMOND INC. CHARLOTTE,N.C. FOR SOFIX CORP.
TITLE 8m2 BASE ASSY.,SIMPLE HEATED F.P
CUSTOMER P.O. NO. 4747 | CUSTOMER ITEM NO. C5100
DRAWN BY M.K.M. DATE 1-21-91 | CHECKED BY | DATE
SHOP ORDER NO. F-80816 | NO. REQUIRED 1 | SHEET 1 OF 1
SCALE 1/8"=1" | No.E-3600592 | REV. A

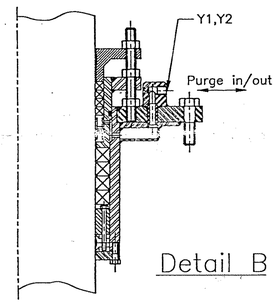
#1144447



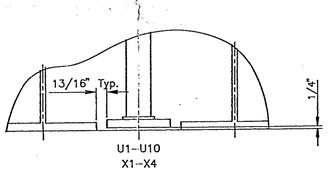



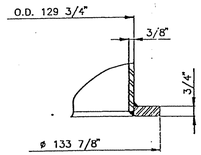

Detail nozzle S



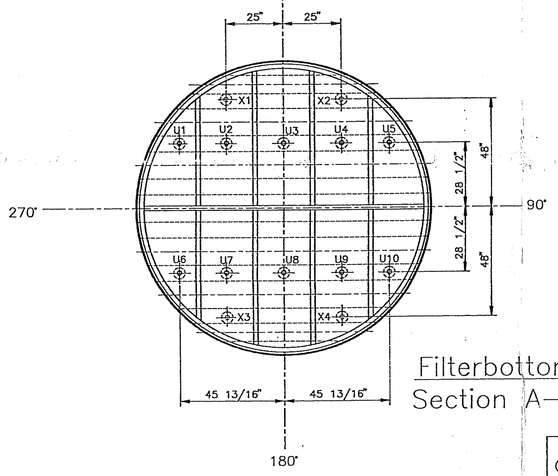

Detail B



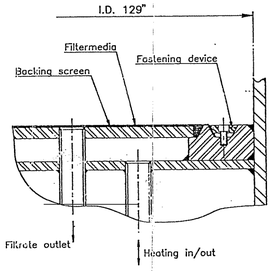

Detail D



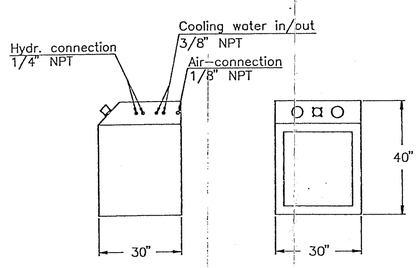

Detail E



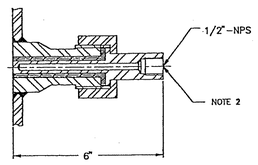

Filterbottom Section A–A




Filterplate Detail C



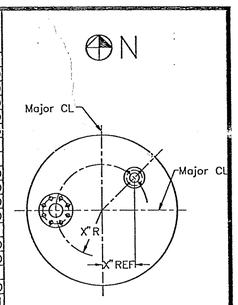

Auxiliary power pack




Detail nozzle T

| NOZZLE | DESCRIPTION | SIZE | RATING | TYPE |
|---|---|---|---|---|
| A1–A3 | Wash–spray balls | ¾/3/ | 150# | RFSO |
| B | Pressurization | 1" | 150# | RFSO |
| C1,C2 | Product inlet | 3" | 150# | RFSO |
| D | Pressure outlet | 1" | 150# | RFSO |
| E | Safety relief | 6" | 150# | RFSO |
| F1,F2 | Light connection | 2" | 150# | Pad. |
| G | Sight glass | 6" | 150# | Weld |
| H | Vent | 3" | 150# | RFSO |
| I | Water | 2" | 150# | RFSO |
| J | Steam | 2" | 150# | RFSO |
| K | Spare with blindflange | 4" | 150# | RFSO |
| L | Agitator | | RoAG | Pad. |
| M | Manway | 26" | 50# | RFSO |
| N | Jacket in | 3" | 150# | RFSO |
| O | | | | |
| P | Jacket out | 3" | 150# | RFSO |
| Q | Manway sight glass | 6" | 150# | Weld |
| R | Header vent | 1" | 150# | RFSO |
| S | Slurry outlet | 3" | 150# | Pad. |
| T | Thermowell with plug | ½" | 3000# | Pad. |
| U1–U10 | Filtrate outlet | 1½" | 150# | RFSO |
| V | | | | |
| W | | | | |
| X1–X4 | Base heating in/out | 2" | 150# | RFSO |
| Y1,Y2 | Purge connection with plug | ⅜" | NPT | |
| Z | | | | |

Nozzle Orientation




All bolt holes must straddle major center lines unless otherwise specified

PROCESS DATA

| | | | | | |
|---|---|---|---|---|---|
| Filter surface area | m2 | 8 | HEAT TRANSFER AREA | | |
| Max. working volume | Gal | 2900 | Agitator | ft2 | N/A |
| Max. cake volume | Gal | 1100 | Sidewall | ft2 | 40 |
| | | | Filterbase | ft2 | 90 |

SERVICES REQUIRED

| | |
|---|---|
| Air connection: | Instrument air 80psig (One required) |
| Nitrogen: | 60–90psig |
| Cooling water: | N/A |

DISCHARGE VALVE

| | | | |
|---|---|---|---|
| Type: | N/A | MATERIALS | |
| Valve model: | | Main body: | |
| Bore: | | Slide plate: | |
| Drawing number: | | Spindle: | |
| Design pressure: | | Seals: | |
| Design temperature: | | Seats: | |
| Flanges: | | Solenoid valve: | |
| Actuator: | | Sensor: | |

DUSTFILTER SPECIFICATION

| | | VESSEL | JACKET | MATERIALS | |
|---|---|---|---|---|---|
| Design pressure | Psig | N/A | N/A | Main body: | |
| Design temperature | °F | | | Jacket: | |
| Test pressure | Psig | | | Body flange: | |

DRIVE UNIT SPECIFICATION

| | | | |
|---|---|---|---|
| Drive size: | 8m2 F2 Drive stool | Max. Torque on Agitator: | 18'000 NM |
| Driven by: | Electric motor | Metco C16 Couting: | N/A |
| Gearbox: | RVP–1311 | Internal parts made of: | 316L SS |
| Drive Type: | Belt drive | External parts made of: | Carbon steel |
| Stroke: | 500mm | External bolting: | CS Galvanized-Nickle plated |
| Agitator: | 2–arm,non–htd,paddle–rake | Main shaft with lantern ring: | Yes |
| Design conditions: | FV/50 Psig at –20°/370° | Discharge tube with lantern ring: | N/A |
| Shaft diameter: | 180mm | Finish internal: | Mill+Acid cleaned |
| HP motor: | 20 | Paint on Carbon steel: | Sherwin Williams Polane B |
| Speed of Agitator: | 7.5 RPM | | No.F63BX–L2270–4373,color "blue" |

MOTOR INFORMATION

| TYPE | HP | RPM | VOLTS | HERTZ | SPECIFICATION |
|---|---|---|---|---|---|
| Main drive motor: | 20 | 1800 | 460 | 60 | Cl.1 Div.2 Group C+D |
| Auger drive motor: | | | | | N/A |
| Main power pack motor: | | | | | N/A |
| Auxiliary pack motor: | | | | | N/A |

VESSEL SPECIFICATION

| | | VESSEL | JACKET | BASE |
|---|---|---|---|---|
| Design pressure max/min | Psig | 50/FV | 150/FV | 150/FV |
| Design temperature max/min | °F | –20/+370 | –20/+370 | –20/+370 |
| Test pressure | Psig | Per code | Per code | Per code |
| ASME Code stamped | | Yes | Yes | No |

| | | MATERIALS | |
|---|---|---|---|
| Corrosion allowance: | None | Shell: | 304 SS |
| Flanges: | ANSI+Per code | Dished head: | 304 SS |
| Radiography: | Per code | Flat head: | 304 SS |
| Seizmic zone: | 2A | Jacket: | 304 SS |
| Internal finish: | Mill | Skirt: | 304 SS |
| External finish: | Zirclean–blasted | Internals: | 304 SS |
| Paint on CS comp: | Sherwin Williams Polane B | Body flange: | N/A |
| | No.F63BX–L2270–4373,color "blue" | Internal bolting: | 304 SS/Monel |
| Manway cover: | Spring return | External bolting: | CS Nickle plated |
| Wash system: | 3 Sprayballs PTFE | O–Rings: | Teflon encap. Viton/EPDM |
| | | Gasket: | Teflon |

| | | | |
|---|---|---|---|
| Weight of filter, full | 62'000 LBS, | Weight of filter, empty | 34'000 LBS |
| Customer P.O. No. | 90–00001 | Customer Ref. No. | C 5100 |
| Rosenmund Inc. Job No. | 90–RF–171 | Filter Serial No. | RND8–629–91 |

NOTES:

① Sprayball type: Spray system 27500E–3/4–18–TEF
② Sensor by client
③ Safety limit switch type: Square D 9007CR53F
④ Three (3) limit switches type: Square D 9007CR53B2
⑤ For electrical panel see seperate drawings

Client: SOFIX Corporation

| No. | REVISION | Date | Appr. |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| C | Exchanged location of nozzle N and P | 4\23\91 | V.Furrer |
| B | Rotated drive to 0°, changed manway to 26" | 3\08\91 | V.Furrer |
| A | New nozzle orientation and misc. customer changes | 2\01\91 | V.Furrer |

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ROSENMUND INC. 2969 INTERSTATE STREET / P.O. BOX 668625
CHEMICAL PROCESS EQUIPMENT CHARLOTTE, NC 28266–8625

For 8m2 Liquid–Discharge–Filter

Dimensional drawing

| Scale | Drawn | 1/10/91 | V.Furrer |
|---|---|---|---|
| None | Checked | | |
| DWG. NO. | | | REV. |
| 90–RF–171 | | | C |

#114447