

LOCATION ST. LOUIS

SOLIDS HOPPER & FEEDER

PERFORMANCE DATA

PROJ/DEPT

EQUIP. IDENT NO.

1-436 & 1-436.100

AUTH NO. 3876

PLANT CHOC. BAYOU

BY J. STRUNA

DATE 1-5-83

APPD

SHEET 1 OF 3

NAME CAKE SURGE BIN AND WET CAKE FEEDER

NO. REQD TWO

FUNCTION TO RECEIVE BATCHES OF WET CAKE FROM THE TAR CENTRIFUGE (1-409) AND THEN FEED THE CAKE CONTINUOUSLY AND AT KNOWN RATES TO THE DOWNSTREAM SLURRY TANKS (1-438 AND 1-701).

OPERATION 8000 HRS/YR. BATCH INLET - ABOUT 7 BATCHES/HR.
CONTINUOUS OUTLET

MATERIALS HANDLED

AVG. FLOW THRU

DESIGN FLOW THRU

1-435 TO 1-701

1-436 TO 1-438

1-435

1-436

SORBIC ACID

922 LBS/HR

817 LBS/HR

1458

1093

WATER

85

75

134

100

MeCl₂

2

2

3

3

TARS

3

3

5

4

CHLORIDES

100 PPM

100 PPM

100 PPM

100 PPM

TOTAL

1012 LBS/HR

897 LBS/HR

1600 LBS/HR

1200 LBS/HR

PROCESS DATA

NORMAL FLOW RATE INTO SURGE BINS FROM 1-434 IS 11440 LBS/HR
FOR 90 SEC. CENTRIFUGE PLOW CYCLEDESIGN FLOW RATE INTO SURGE BINS IS 25,760 LBS/HR FOR 45 SEC.
PLOW CYCLELOOSE DENSITY OF CAKE : 33 LBS/FT³PACKED DENSITY OF CAKE : 43 LBS/FT³ ✓

SEE ATTACHED "BULK MATERIAL LAB TEST #219" FOR ADDITIONAL INFO.

TEMPERATURE - AMBIENT

PRESSURE - ATMOSPHERIC. CENTRIFUGE MAY DRAW 10" H₂O VACUUM

EQUIPMENT SPECS, MATL OF CONST, ETC.

CORROSION ALLOWANCE ZERO

MATERIALS IN CONTACT WITH WET CAKE - 304SS WITH POLISHED
FINISH

FOOD GRADE CONSTRUCTION IS NOT REQUIRED. ✓

UNITS TO BE AIR TIGHT.

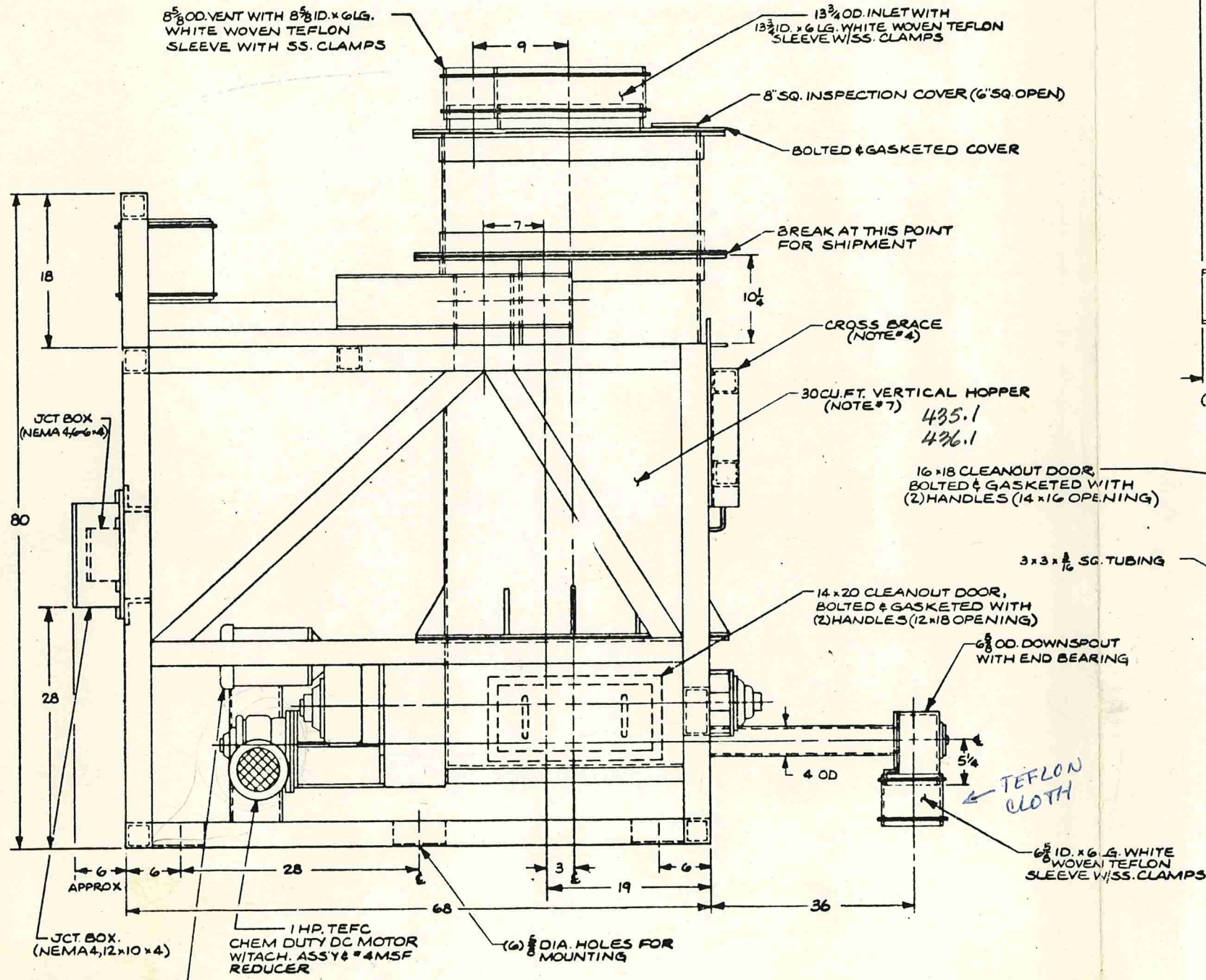
EQUIPMENT TO BE SIMILAR TO ACRISON SERIES 403 "WEIGHT-LOSS-
DIFFERENTIAL" HOPPER (ITEMS 1-435.100 & 1-436.100) AND ACRISON
FEEDER MODEL BDF 2.5 OR 140S (ITEMS 1-435 & 1-436) WITH
INTROMITTER(S).

HOPPER VOLUME TO BE ABOUT 30 CU. FT. (3 CENTRIFUGE BATCHES) EACH.

REMARKS, TESTS, SPECIAL FEATURES, ETC.

1. A TEST SHOULD BE CONDUCTED ON THE SELECTED EQUIPMENT TO CONFIRM ITS ABILITY TO FEED WET CAKE AT CONSISTANT RATES.
2. HOPPER/FEEDER COMBINATION TO BE ON WEIGH CELLS AND ISOLATED BY FLEXIBLE CONNECTIONS.
3. PROVIDE ACCESS FOR MAINTENANCE, ESPECIALLY FOR THE FEEDERS AND INSTRUMENTATION. PROVIDE CLEAN-OUT DOORS AS NEEDED.
4. PROVIDE VARIABLE SPEED DRIVES ON FEEDERS WITH CONTINUOUS ADJUSTMENT FROM 10% TO 100% OF DESIGN RATE WITH $\pm 2\%$ ACCURACY OF DESIRED FEED RATE.
5. ITEM TO BE DESIGNED TO MINIMIZE CAKE BRIDGING.
6. VENDOR TO SPECIFY MOTOR SIZES.

REV NO.	REVISION	BY	DATE	APPD	DATE
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②					
③					

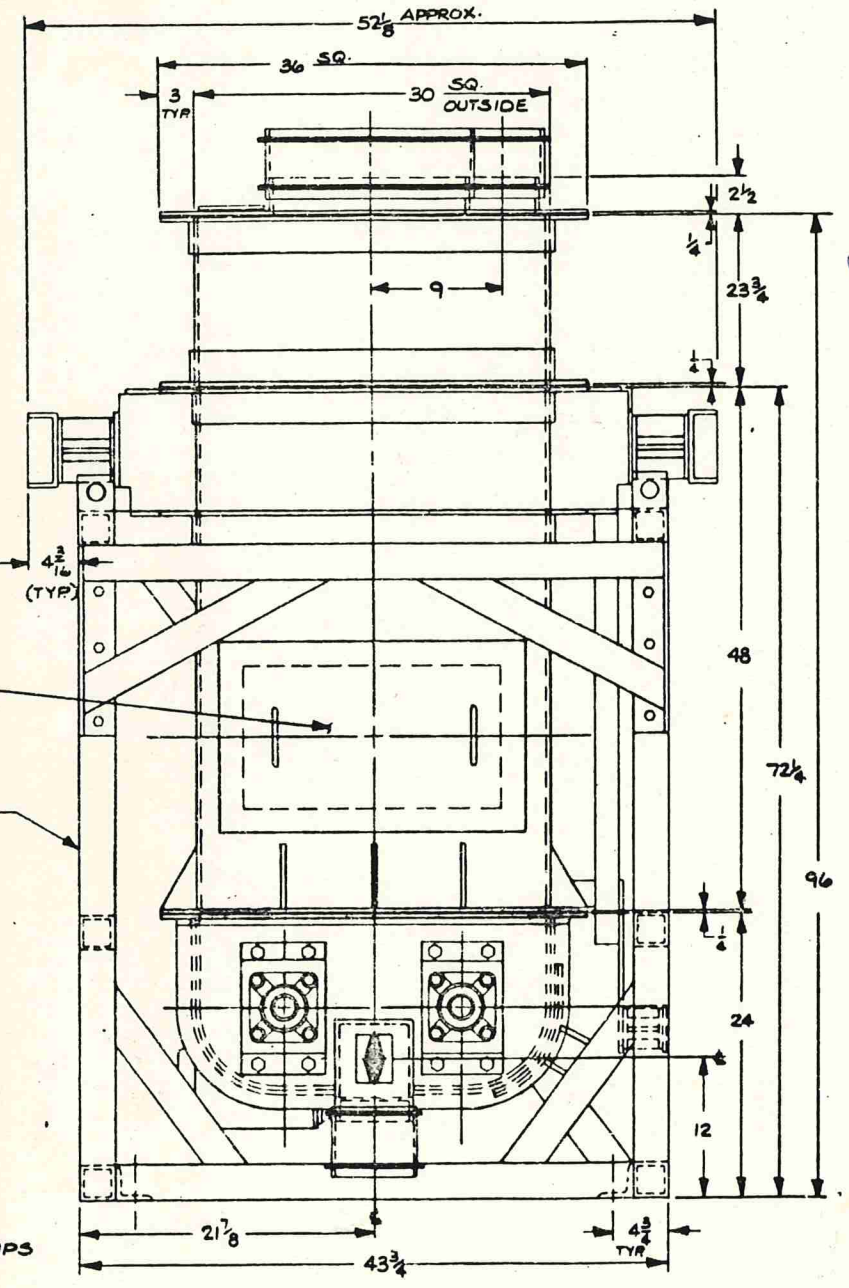


- NOTES:
1. APPROX. WEIGHT: 3500 LBS (EMPTY)
 2. ALL CONTACT MATERIAL TO BE 304 SS.
 3. DC MOTOR CONTROLS FURNISHED BY ACRISON, SHIPPED LOOSE.
 4. CROSS BRACE MUST BE BOLTED IN PLACE DURING FEEDER OPERATION.
 5. LIFTING EYES ARE FOR FEEDER INSTALLATION ONLY, NOT DESIGNED FOR LIFTING WITH PRODUCT IN HOPPER.
 6. ANY CONNECTION TO THE SCALE, MUST NOT IMPAIR THE MOVEMENT.
 7. INTERNAL HOPPER PRESSURE, MUST NOT VARY DURING FEEDER OPERATION.
 8. FEEDER TO BE PAINTED WITH ACRISON MODIFIED VINYL GREEN, 8-10 MILS.
 9. ALL WIRING AT FEEDER TO BE NEMA 4.

(2) 1 HP TEFC CHEM DUTY AC MOTORS, 230/460/3/60 WITH (2) REDUCERS, 750:1 RATIO

WINSMITH

T.L. MADDOX Company - RITA
 CHESTERTOWN, MO.
 1-314-532-7667 - DAVE O'BRIEN



MONSANTO COMPANY
 CORPORATE ENCL. DEPT. ENGINEERING 1876-9-0017
 LOCATION: CHOC, BAYOU, TEXAS AREA 01
 EQUIPMENT NO. 435.435100/336.476100
 DESCRIPTION: ACRISON MODEL #01 RDP 2.5K
 REVIEWED BY: DATE
 D. MALL CORRECTIONS: NONE, D. LEAVE 35-10-10 (1/2)

THIS DOCUMENT HAS BEEN REVIEWED FOR GENERAL ARRANGEMENT ONLY. THIS REVIEW DOES NOT RELIEVE THE SUBMITTER OF RESPONSIBILITY TO PERFORM IN STRICT ACCORDANCE WITH CONTRACT DOCUMENTS. REVIEW DOES NOT COVER DIMENSIONS, QUANTITIES, ACCURACY, FIT AND ADEQUACY OR DETAILS.

ACRISON
 1-800-222-0897
 1-201-440-8300
 DON RIENHART

SOUTHERN SOLIDS
 HOUSTON, TEX
 713-460-0777
 JUSTIN JOAQUIN

#73313

LTR		DWN		DATE															
REVISIONS																			
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All wiring to this Equipment must be made by the User. This includes all interconnects between the Equipment and ACRISON supplied Control Boxes as well as any Safety Switches and/or Safety Interlocks as required for use in the particular standards of the User. All ACRISON MARKED EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL SAFETY LAWS, RULES AND REGULATIONS.																			
It is the User's responsibility to ensure that all Safety, Codes, Laws, Ordinances, etc. are followed in the use of this Equipment. ACRISON is not responsible for any damage or injury to the User or others resulting from the use of this Equipment. It is also the User's responsibility to continuously maintain all guards, covers and enclosures, which are included and/or stated on this Machinery, particularly those which act as a shield for rotating components.																			
Safety procedures for maintenance, cleaning, etc. must be established and enforced by the User.																			
ACRISON, INC. 20 EMPIRE BLVD. MOONACHIE, N. J. MODEL 403-2000-1200-BDF-2.5-K MONSANTO SN: 831296-297 <table border="1"> <tr> <th>DATE</th> <th>DWN</th> <th>DATE</th> <th>DWN</th> <th>DATE</th> <th>DWN</th> <th>REV</th> </tr> <tr> <td>4-11-83</td> <td>MS</td> <td>5-18-83</td> <td>GT</td> <td>5-14-83</td> <td>403-1-796</td> <td></td> </tr> </table>						DATE	DWN	DATE	DWN	DATE	DWN	REV	4-11-83	MS	5-18-83	GT	5-14-83	403-1-796	
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