

F.L.Smidth Airtech Inc.

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www.flsairtech-us.com

FLSMIDTH
RECEIVED

MAR 30 2006

BUREAU OF AIR REGULATION

CONTRACT INSTRUCTION MANUAL

Pennsuco Cement Co.
Medley, FL.

Nuisance Dust Collectors

461.BF130	441.BF540
461.BF230	481.BF330
341.BF350	461.BF350
351.BF410	311. 331.BF650
351.BF440	311. 331.BF750
351.BF470	481.BF140
331.BF740	311.BF950
321.BF470	481.BF730
481.BF930	481.BF960
481.BF540	481.BF640

Raw material

*311 Raw Material
331 Coal Bin*

Manual No. 60003141

F.L.Smidth Inc. Contract No.: 15-01-20133-015

F.L.Smidth P.O. No.: 4-01-20133-14117

FLS miljø Project No.: C223014

FLS miljø Inc.

3231 Schoenersville Road, Bethlehem, PA 18017, USA
Telephone 610-264-6070 Fax 610-264-6940

FLS miljø



USA

Contract Instruction Manual

**Pennsuco Cement Co.
Medley, Florida**

Jet Pulse Dust Collectors

331.BF200 / 2M5C690D16(6) / Kiln-Raw Mill Dust Collector

331.SC210 to 331.SC310 / Screw Conveyors

331.SG218 to 331.SG318 / Slide Gates

331.RF350 & 331.RF370 / Rotary Airlocks

461.BF500 / 735SX12(6) / Coal Mill Dust Collector

461.SC510 / Screw Conveyor

461.SG518 / Slide Gate

461.RF520 / Rotary Airlock

MANUAL NO.: 60002814

F.L.Smith, Inc. Contract No.: 15-01-20133

F.L.Smith P.O. No.: 4-0120133-13757

FLS miljø Contract No: C123009

Location: Medley, Florida

COAL HANDLING
461.BF130

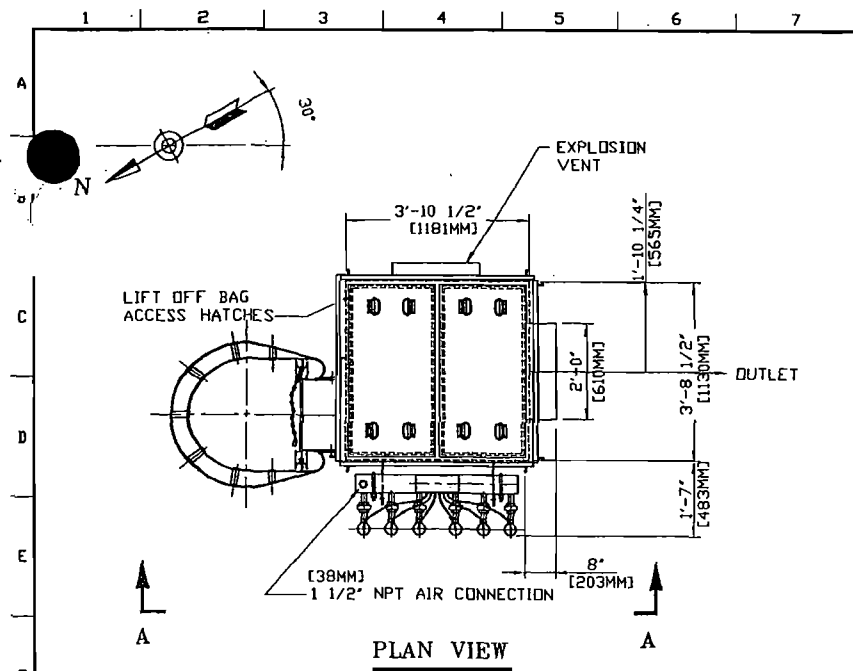


Pennsuco Cement

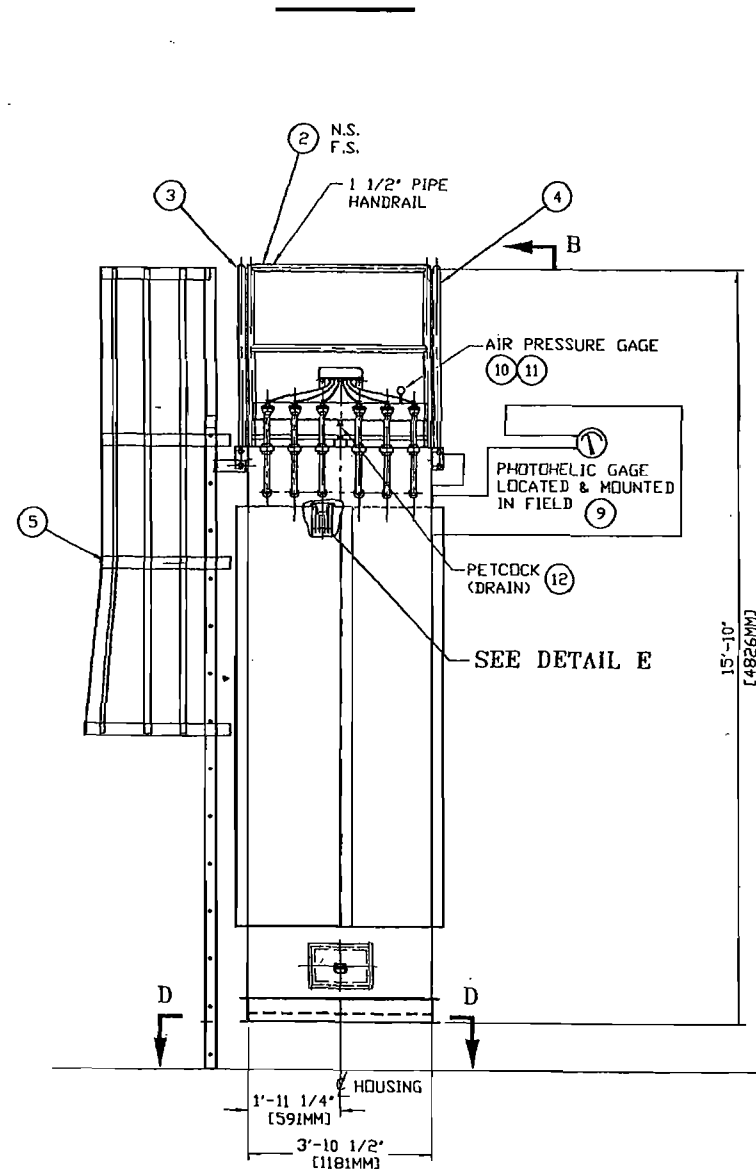
EU ID#	EU Source	BF Unit ID	
016	Packhouse	BF400	
Control Equipment Make	Model #	# of Bags	
Fuller			
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
15000			

EU ID#	EU Source	BF Unit ID	
026	Coal System	461.BF130	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	36TAX10FM	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
1400	469	3.0:1	126

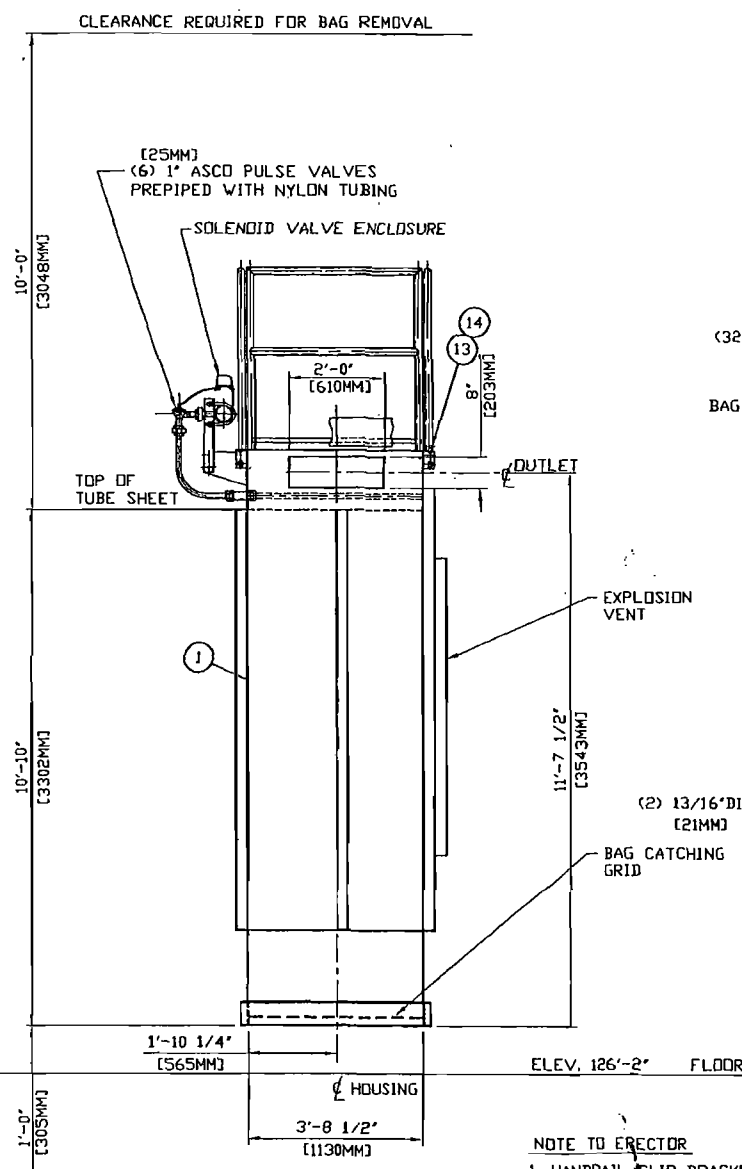




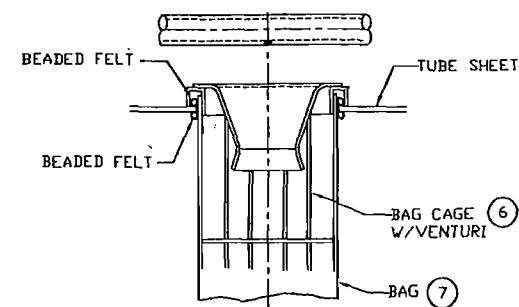
PLAN VIEW



VIEW "A-A"



VIEW "B-B"

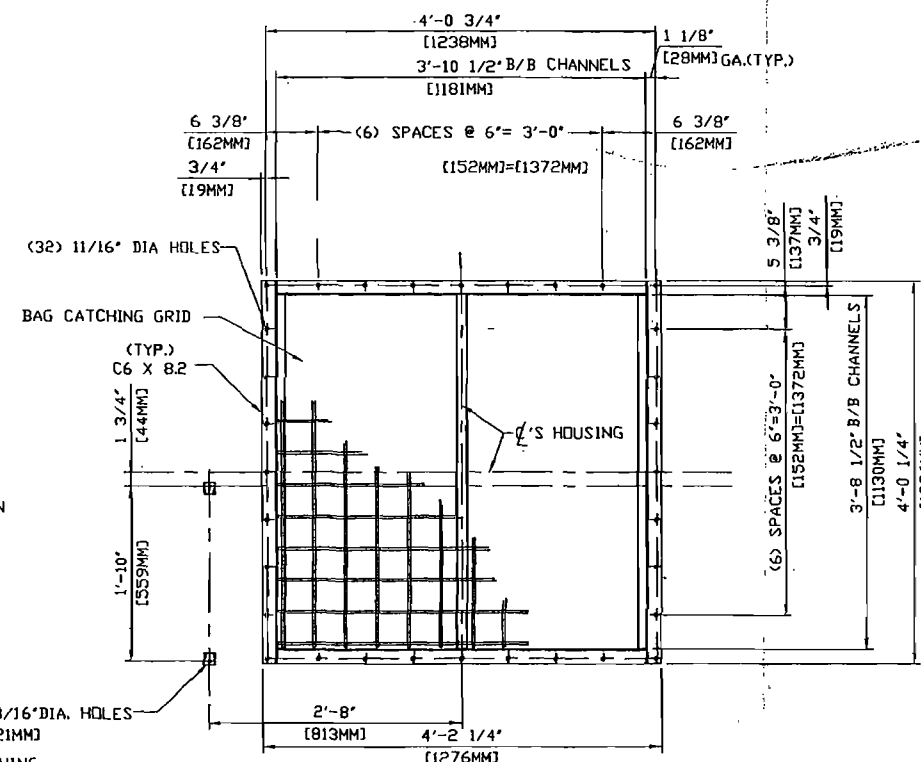


DETAIL E

BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS. WHEN REINSTALLING BLOWTUBES, BE SURE HOLES IN BLOWTUBES ARE CENTERED OVER BAGS.



SECTION "D-D"

NOTE TO ERECTOR

- HANDRAIL CLIP BRACKETS MAY BE USED TO LIFT DUST COLLECTOR USING CHAIN SHACKLES OF APPROPRIATE SIZE.
- DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
		JET PULSE COLLECTOR WT. 1940# [880 Kg]	336-02-4-0144 00
1	1	HOUSING ASSEMBLY	336-02-4-0186 00
2	2	HANDRAIL	336-01-4-0749 01
3	1	HANDRAIL	336-01-4-0749 03
4	1	HANDRAIL	336-01-4-0749 02
5	1	LADDER WITH SAFETY CAGE	336-02-4-0709 01
6	36	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
7	36	BAG 5" DIA X 10'-0" LG SINGED POLYESTER	314-95-4-0004 01
8			
9	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
10		PRESSURE GAGE, 1/4" NPT BOTDM CONNECTION 0-160 PSI	500-01-0-6007 00
		3 1/2" DIA FACE,BLACK STL CASE,MARSHALLTOWN FIG. 23	
11	1	STREET ELBOW 45°, 1/4" NPT 150# SCREWED	000-00-5-4095 00
12	1	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL	
13	18	HEX HD CAP SCREW 5/8" 11NC X 1 3/4" LG ZINC PL	040-00-4-0022 21
14	18	HEX NUT 5/8" 11NC ZINC PL	040-00-4-0022 30

DESIGN DATA	
1. MODEL	-- 36TAX10FM
2. APPLICATION	-- COAL
3. GAS VOLUME	-- 1400 ACFM
4. OPERATING TEMPERATURE	-- 92° F
5. DESIGN PRESSURE	-- -20\"/>

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	REVISION
2	1	1	1	18JUN02	18JUL02	
ITEM #7 WAS 336-74-4-0001-54						
REVISED PER CUSTOMER MARKED DRAWING DATED 02MAY02 MODEL WAS 36TAX10 MADE UNIT OPEN BOTTOM						
THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.						

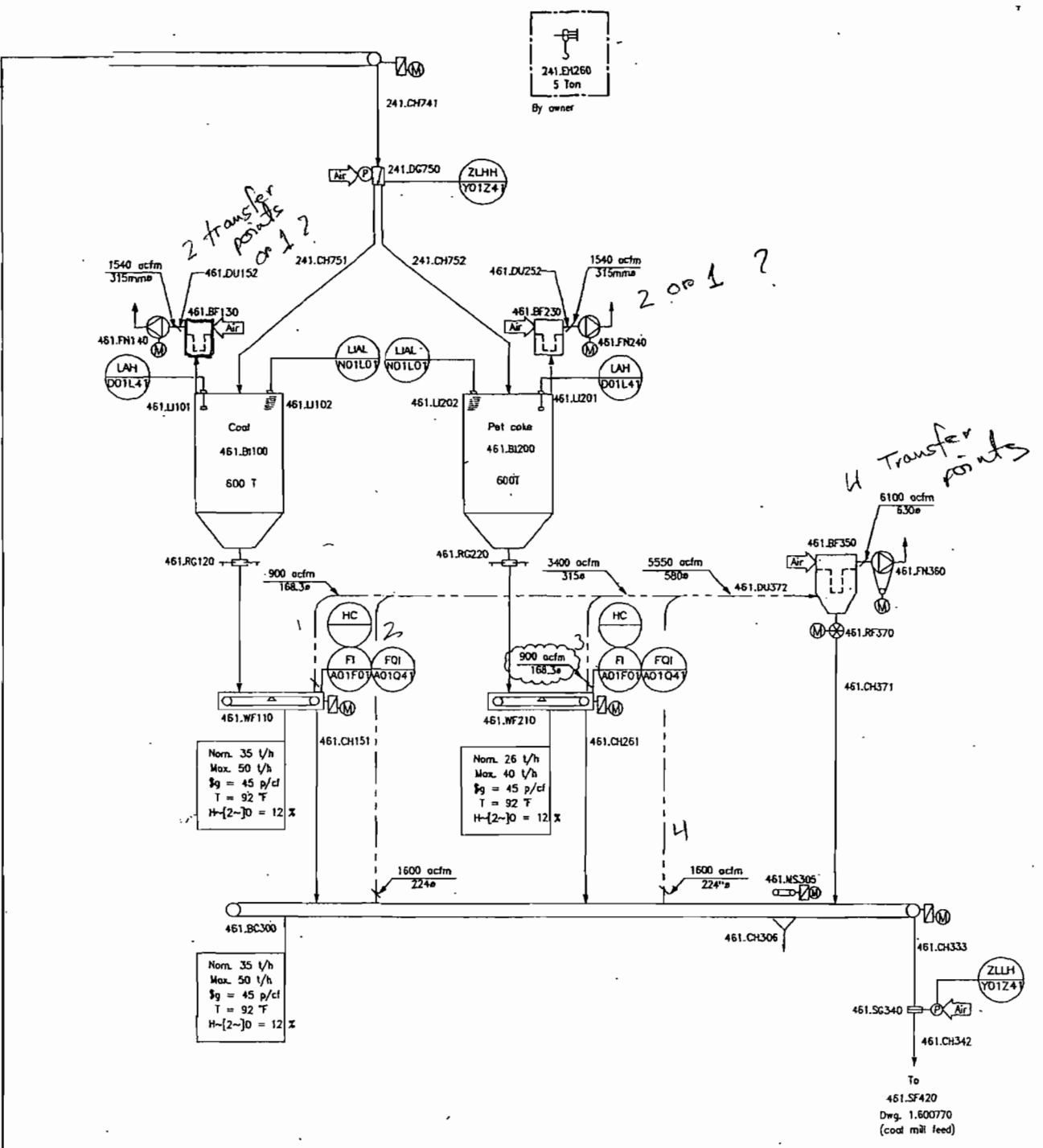
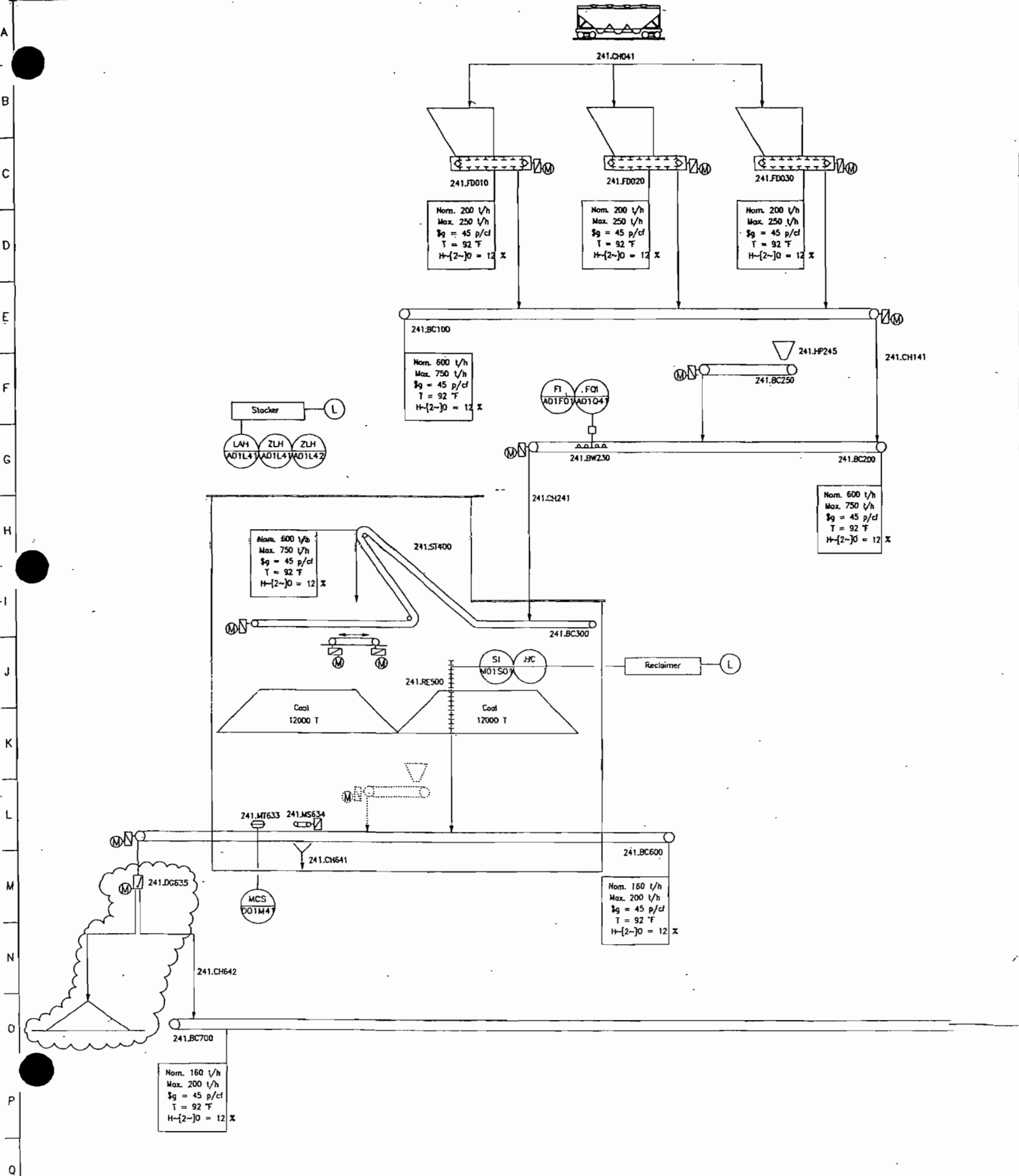
FLS miljø Inc.

Bethlehem, Pa. 18017 USA

TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
P.O. No. 4-01-20133-14117
CONTRACT No. 16-01-20133
EQUIPMENT No. - 481.BF130

DR. RJK	GENERAL ARRANGEMENT														
CHD. EL	MODEL SIZE 36TAX10FM														
APPR. JFS	JET PULSE COLLECTOR														
DATE 28MAR02	PENNSUCO CEMENT COMPANY								MEDLEY, FL						
SCALE 1/2"=12"	DRAWING NUMBER								REV.	SHEET					
MICRO	3	3	6	-	0	2	-	4	-	0	1	4	4	2	NO. 1 OF 1



Revision	24Mar05	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone / Description
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Coal mill - areas 241 and 461
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

COAL HANDLING SYSTEM
461.BF230



Pennsuco Cement

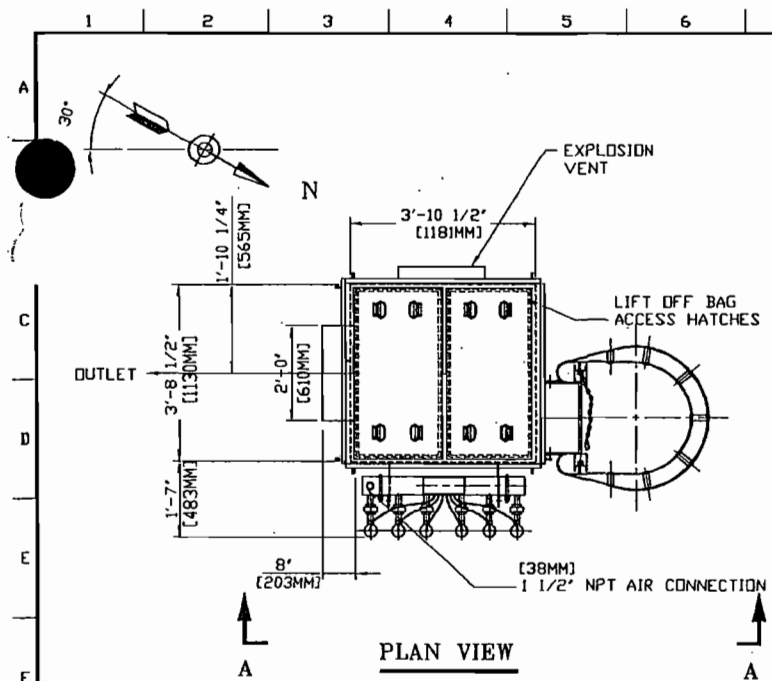
EU ID#	EU Source	BF Unit ID	
026	Coal System	461.BF230	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	36TAX10FM	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
1400	469	3.0:1	126



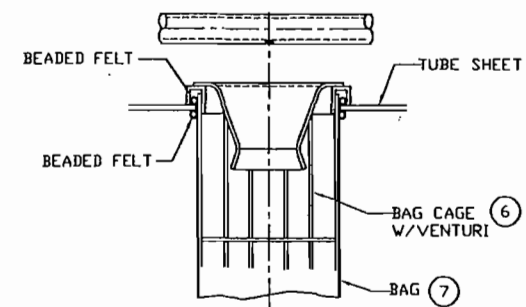
EU ID#	EU Source	BF Unit ID	
026	Coal System	461.BF350	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	121CX10	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5550	1575	3.5:1	75



Emission Control Equipment
Aug05



PLAN VIEW



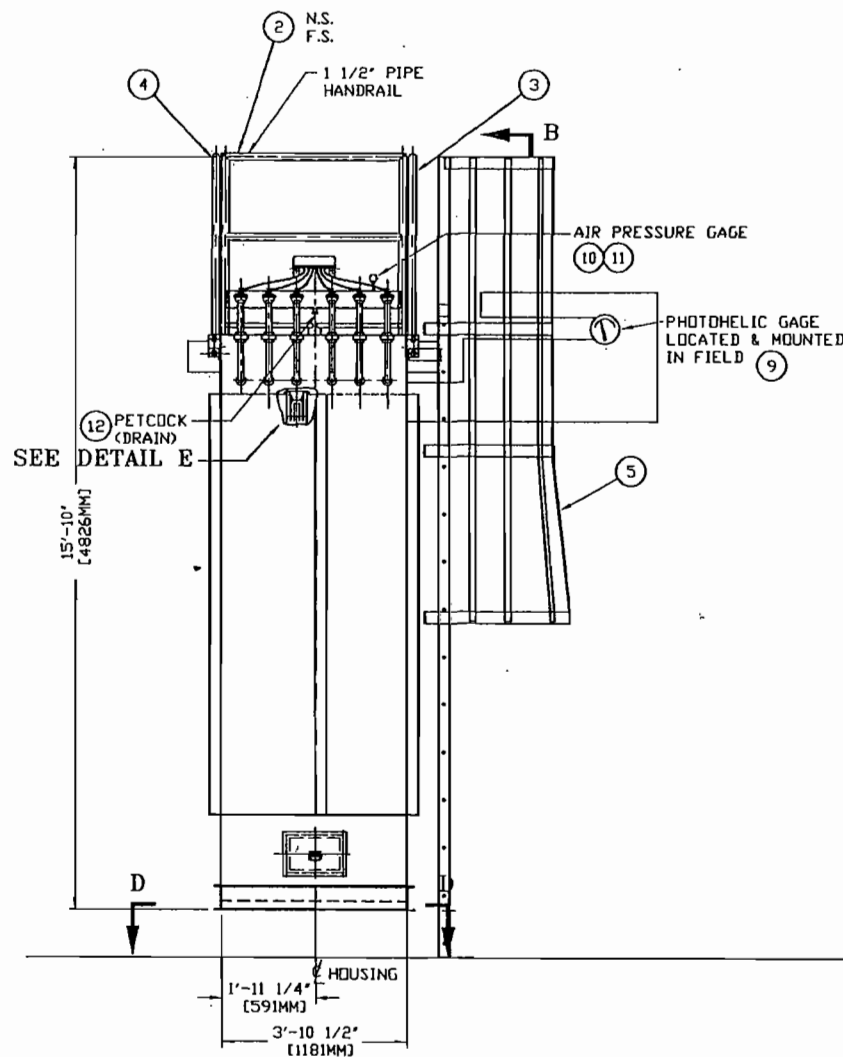
DETAIL E

BAG & CAGE INSTALLATION

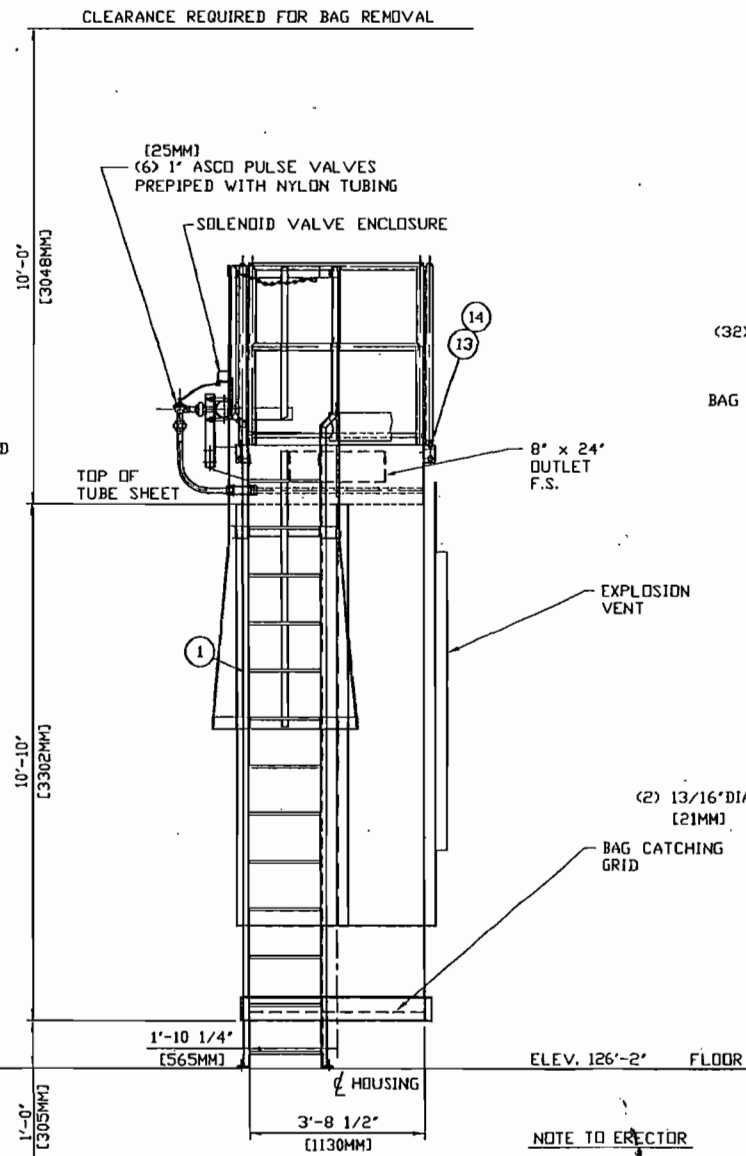
INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS. WHEN REINSTALLING BLOWTUBES, BE SURE HOLES IN BLOWTUBES ARE CENTERED OVER BAGS

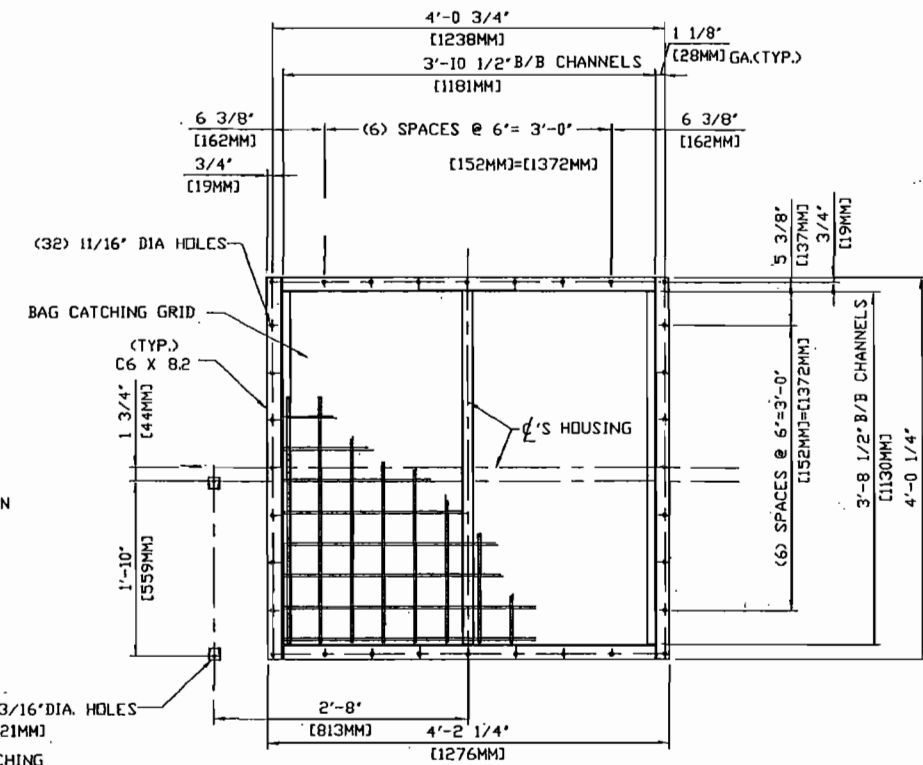
ITEM ID	DESCRIPTION	WT. 1940# [880 Kg]	PART NUMBER
1	JET PULSE COLLECTOR		336-02-4-0145 00
2	HOUSING ASSEMBLY		336-02-4-0188 00
3	HANDRAIL		336-01-4-0749 01
4	HANDRAIL		336-01-4-0749 02
5	LADDER WITH SAFETY CAGE		336-02-4-0709 01
6	BAG CAGE & VENTURI ASSEMBLY		325-85-4-1902 01
7	BAG 5" DIA X 10'-0" LG	SINGED POLYESTER	314-95-4-0004 01
8			
9	PHOTOHELIC GAGE & PIPING ASSEMBLY		325-75-2-2003 04
10	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI		500-01-0-6007 00
11	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23		
12	STREET ELBOW 45°, 1/4" NPT 150# SCREWED		000-00-5-4095 00
13	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL		
14	HEX HD CAP SCREW 5/8" 11NC X 1 3/4" LG	ZINC PL	040-00-4-0022 21
15	HEX NUT 5/8" 11NC	ZINC PL	040-00-4-0022 30



VIEW "A-A"



VIEW "B-B"



SECTION "D-D"

DESIGN DATA	
1. MODEL	-- 36TAX10FM
2. APPLICATION	-- COAL
3. GAS VOLUME	-- 1400 ACFM
4. OPERATING TEMPERATURE	-- 92° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- GROUNDED POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 36
9. TOTAL CLOTH AREA	-- 469 FT ²
10. AIR TO CLOTH RATIO	-- 3.0 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG

NOTE TO ERECTOR

- HANDRAIL CLIP BRACKETS MAY BE USED TO LIFT DUST COLLECTOR USING CHAIN SHACKLES OF APPROPRIATE SIZE.
- DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

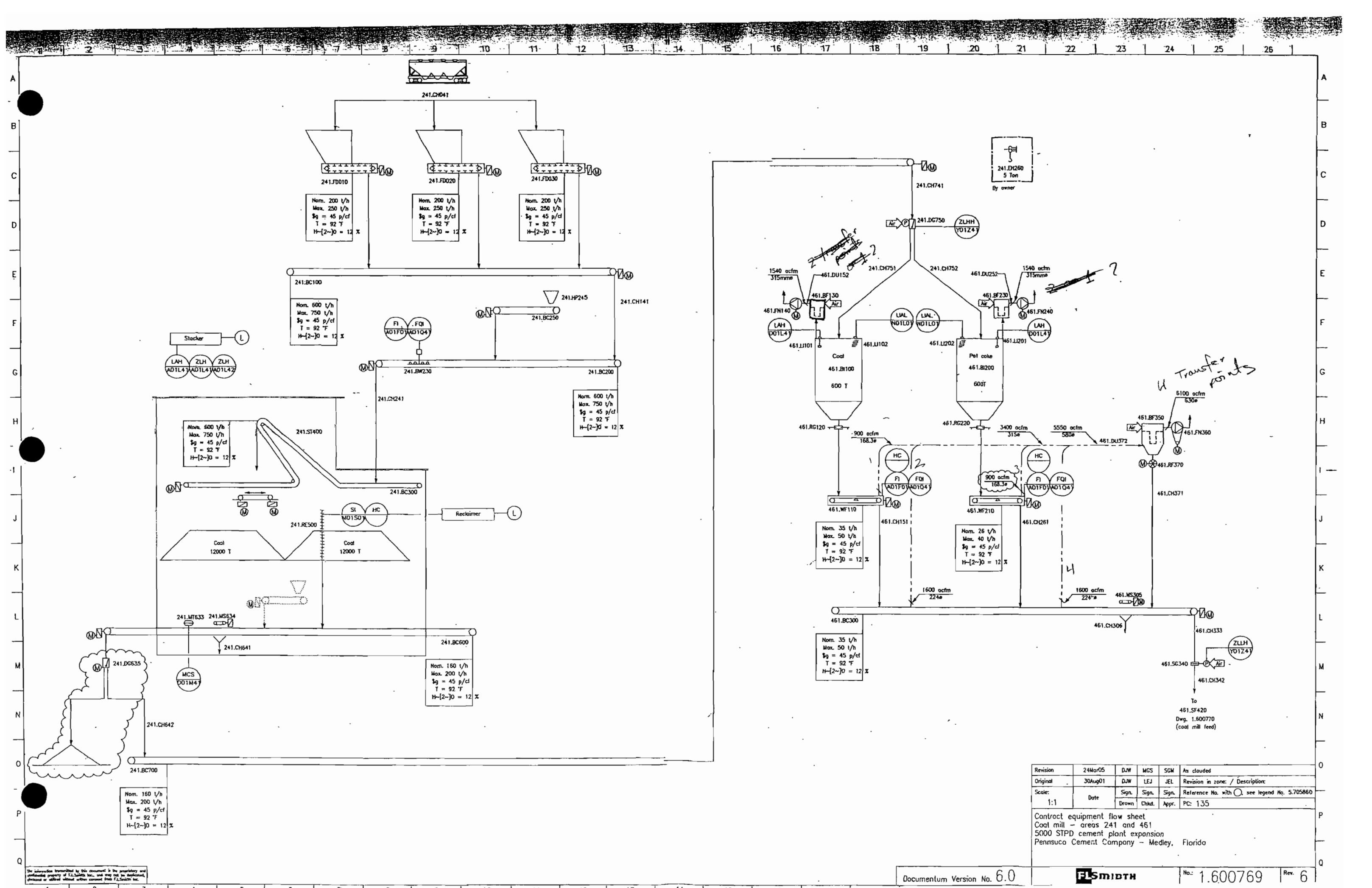
TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
P.O. No. 4-01-20133-14117
CONTRACT No. 15-01-20133
EQUIPMENT No. - 461.BF230

FLS miljø Inc.
Bethlehem, Pa. 18017 USA

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	ITEM #7 WAS 314-79-4-0001-54
2	VEH	EL	JFS	26-JUN-02	18-JUL-02		
1	VEH	EL	JFS	26-JUN-02	18-JUL-02		
							REVISED PER CUSTOMER MARKED DRAWING DATED 02MAY02 MODEL WAS 36TAX10 MADE UNIT OPEN BOTTOM
							THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

DR. RJK	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 36TAX10FM
APPR. JFS	JET PULSE COLLECTOR
DATE 28MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL
SCALE 1/2"=12"	DRAWING NUMBER
MICRO	REV. SHEET
	336-02-4-0145 2
	OF 1

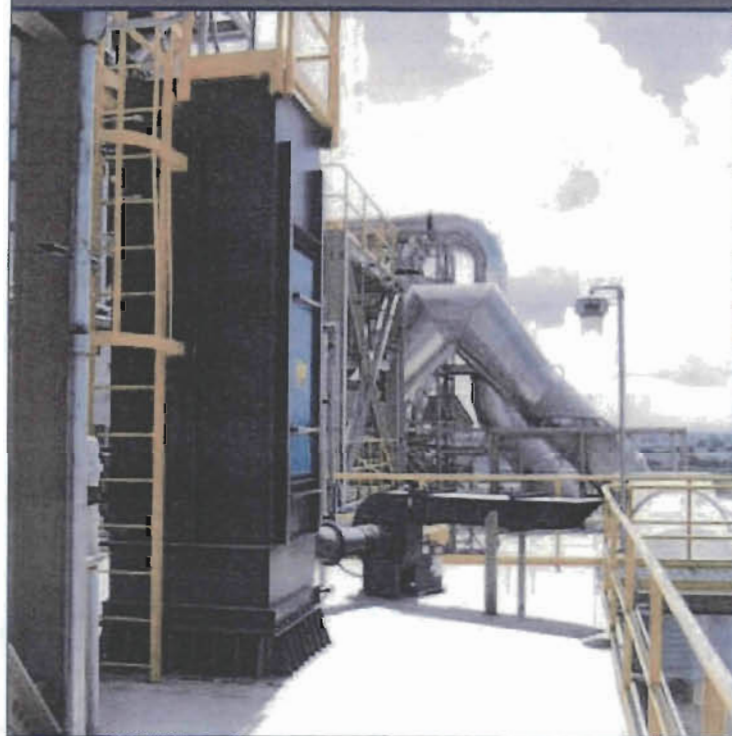


COAL HANDLING SYSTEM
461.BF350



Pennsuco Cement

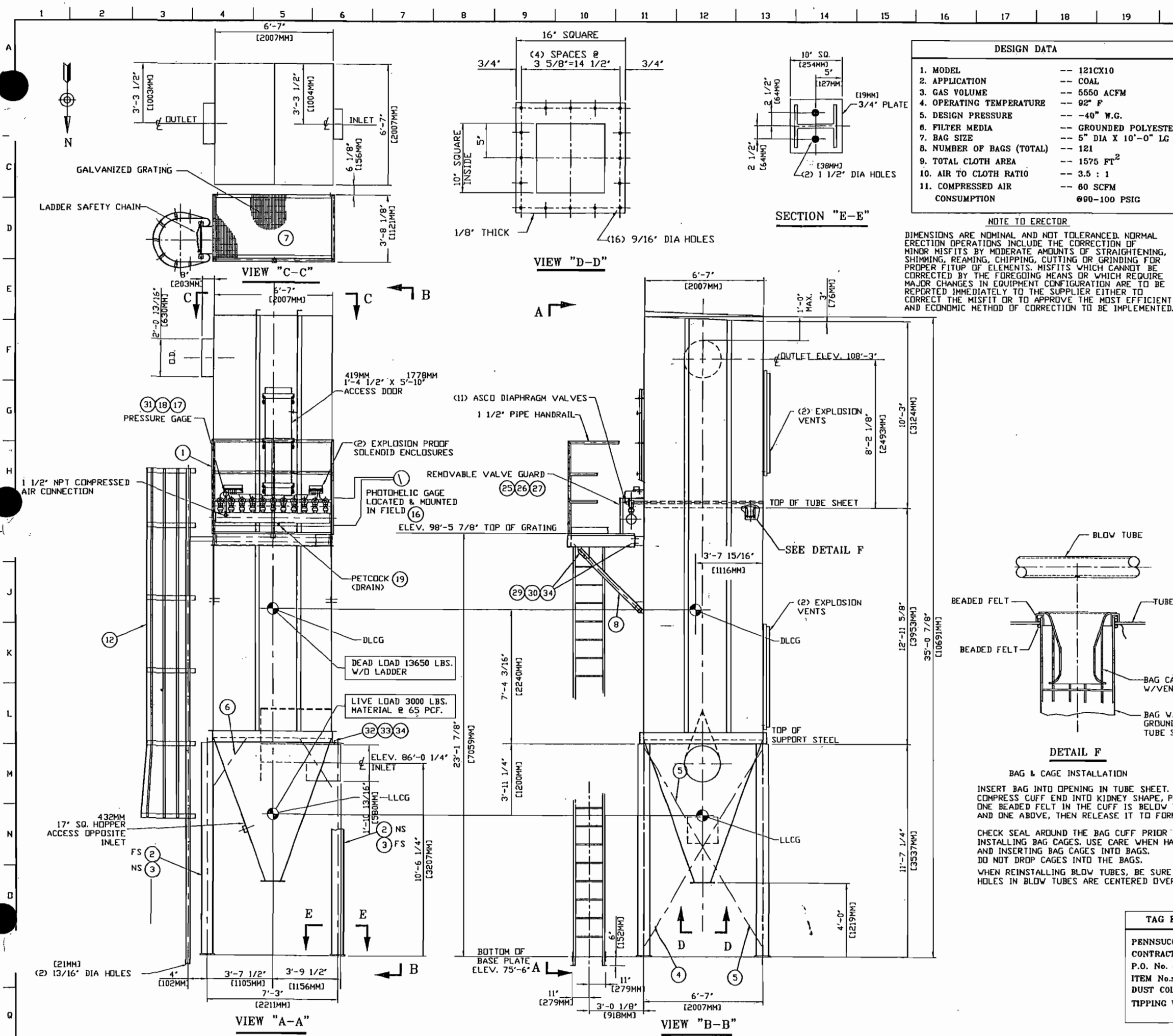
EU ID#	EU Source	BF Unit ID	
026	Coal System	461.BF230	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	36TAX10FM	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
1400	469	3.0:1	126



EU ID#	EU Source	BF Unit ID	
026	Coal System	461.BF350	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	121CX10	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5550	1575	3.5:1	75



Emission Control Equipment
Aug05

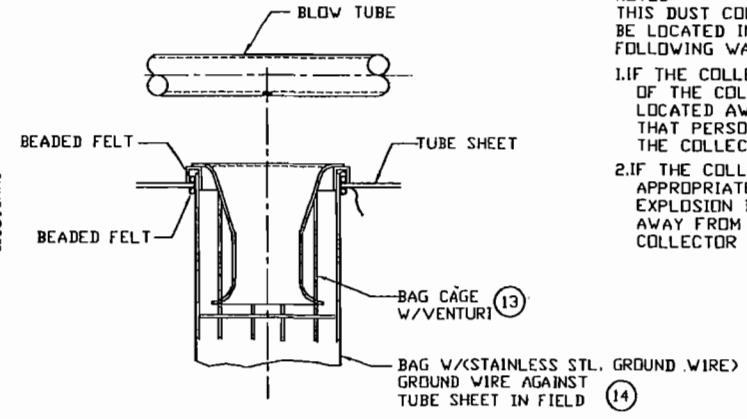


DESIGN DATA		
1. MODEL	--	121CX10
2. APPLICATION	--	COAL
3. GAS VOLUME	--	5550 ACFM
4. OPERATING TEMPERATURE	--	92° F
5. DESIGN PRESSURE	--	-40" W.G.
6. FILTER MEDIA	--	GROUND POLYESTER
7. BAG SIZE	--	5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	--	121
9. TOTAL CLOTH AREA	--	1575 FT ²
10. AIR TO CLOTH RATIO	--	3.5 : 1
11. COMPRESSED AIR CONSUMPTION	--	60 SCFM @ 90-100 PSIG

NOTE TO ERECTOR
DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

ITEM NO	DESCRIPTION	WT.	QTY	PART NUMBER
1	JET PULSE COLLECTOR	WT. 13900# [6305Kg]		336-02-4-0143 00
2	HOUSING & HOPPER ASSEMBLY			336-02-4-0180 00
3	COLUMN			336-02-4-0520 01
4	COLUMN			336-02-4-0520 02
5	BRACE			336-02-4-0520 03
6	BRACE			336-02-4-0520 04
7	BRACE			336-02-4-0520 05
8	PLATFORM			336-01-4-0542 01
9	PLATFORM BRACE			336-01-2-0557 01
10				
11				
12	LADDER WITH SAFETY CAGE			336-02-4-0706 01
13	BAG CAGE & VENTURI ASSEMBLY			325-85-4-1902 01
14	BAG 5" DIA X 10'-0" LG W/SS GROUND STRIP SINGED POLYESTER			314-95-4-0004 01
15	10' DOUBLE TIPPING VALVE			
16	PHOTOHELIC GAGE & PIPING ASSEMBLY			325-75-2-2003 04
17	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI			500-01-0-6007 00
18	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23			
19	COUPLING 1/4" NPT 150# M.I.			000-00-5-3095 00
20	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL			
21	1" X 1/8" X 5'-0" LG. J-CALK NO. 7446			BURNSTINES 000-02-0-0176 51
22	16 HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG			ZINC PL 040-00-4-0022 49
23	16 HEX NUT 1/2" 13NC			ZINC PL 040-00-0-4420 00
24				
25	2 HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG			ZINC PL 040-00-4-0022 16
26	2 HEX NUT 3/8" 16NC			ZINC PL 040-00-4-0022 28
27	1 VALVE COVER PLATE			336-99-2-2011 01
28				
29	46 HEX NUT 3/4" 10NC			ASTM-A325
30	46 PLAIN FLAT WASHER 3/4" DIA			ASTM-A325 040-00-4-0002 54
31	1 PIPE 1/4" SCH 40 X 9' LG T.B.E.			
32	8 HARDENED BEVEL WASHER 3/4" DIA.			ASTM-F436
33	8 HEAVY HEX NUT 3/4" 10NC			ASTM-A363, GRADE C
34	54 HEX HD BOLT 3/4" 10NC X 2" LG			ASTM-A325 040-00-4-0022 26
35	1 WJ-10 TIMER, NEMA 4, 115V/1PH/60HZ (NOT SHOWN)			315-84-4-3019 00

NOTES:
THIS DUST COLLECTOR EQUIPPED WITH EXPLOSION DOORS MUST BE LOCATED IN THE SYSTEM ARRANGEMENT IN EITHER OF THE FOLLOWING WAYS TO PROVIDE PERSONNEL SAFETY:
1. IF THE COLLECTOR IS LOCATED OUTSIDE, THE SIDE OF THE COLLECTOR WITH THE EXPLOSION DOORS MUST BE LOCATED AWAY FROM ANY WORKING OR TRAFFIC AREA SO THAT PERSONNEL WILL NOT PASS BY THE DOORS WHILE THE COLLECTOR IS IN OPERATION.
2. IF THE COLLECTOR IS LOCATED WITHIN A BUILDING, APPROPRIATE DUCTS MUST BE PROVIDED TO DIRECT ANY EXPLOSION DOOR GASES OUTSIDE THE BUILDING AND AWAY FROM ANY WORKING OR TRAFFIC AREAS WHILE THE COLLECTOR IS IN OPERATION.

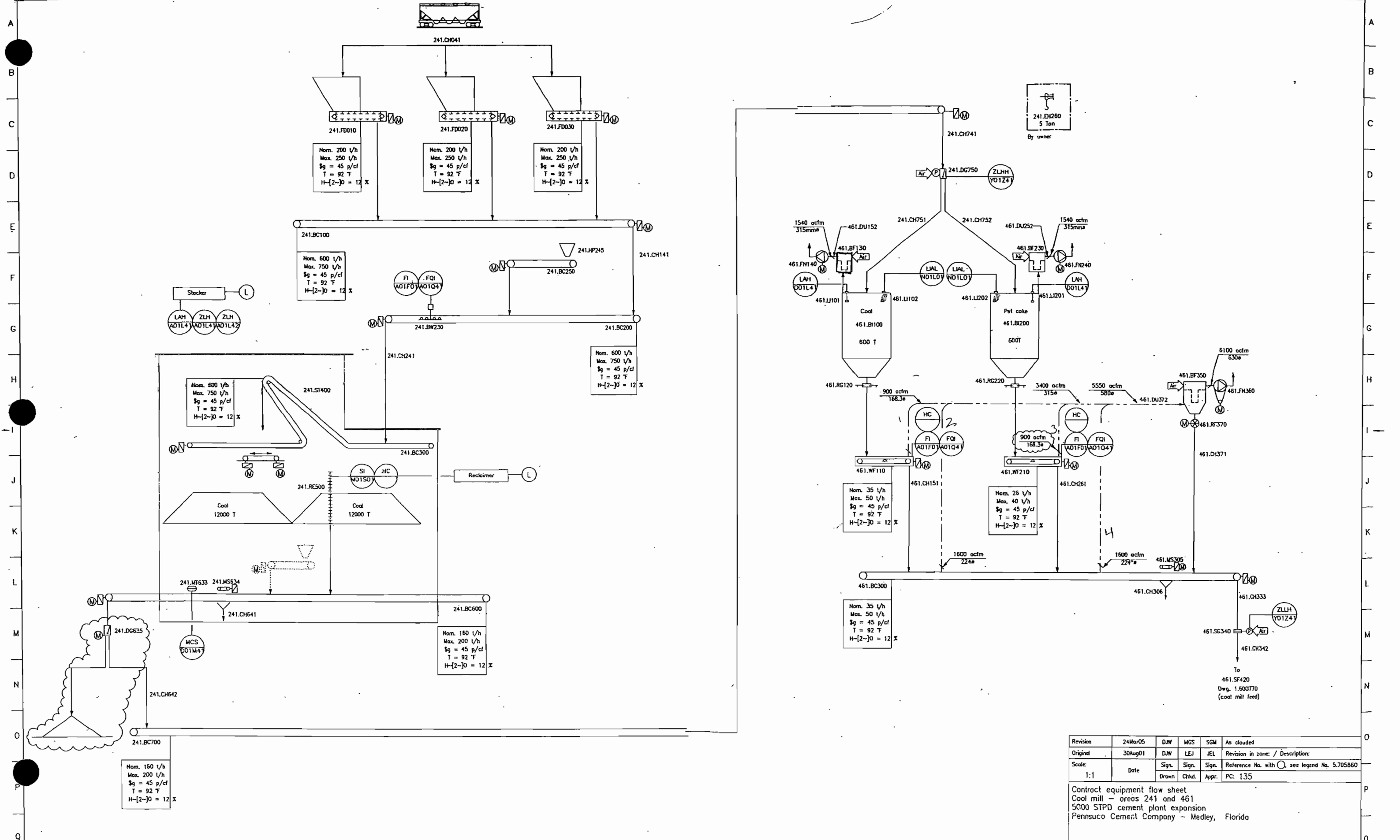


BAG & CAGE INSTALLATION
INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.
CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS. WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	
CONTRACT No. 15-01-20133	
P.O. No. 4-01-20133-14117	
ITEM No.s	
DUST COLLECTOR - 461.BF350	
TIPPING VALVE - 461.FV370	

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	ITEM # 2 THRU 6 WERE 336-00-4-0589
3	VEH	EL	JFS	27AUG02			REMOVED 6" PEDESTAL
2	VEH	EL	JFS	06AUG02			REVISED PER CUSTOMER MARKED DRAWING DATED 02MAY02 INLET WAS 2'-0" OUTLET WAS 2'-1"
1	VEH	EL	JFS	12JUN02			THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.	
Bethlehem, Pa. 18017 USA	
DR. RJK	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 121CX10
APPR. JFS	JET PULSE COLLECTOR
DATE 28MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL.
SCALE 3/8"=1'-0"	DRAWING NUMBER
MICRO	REV. SHEET
	336-02-4-0143 3
	NO. 1 OF 1



Revision	24Mar05	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

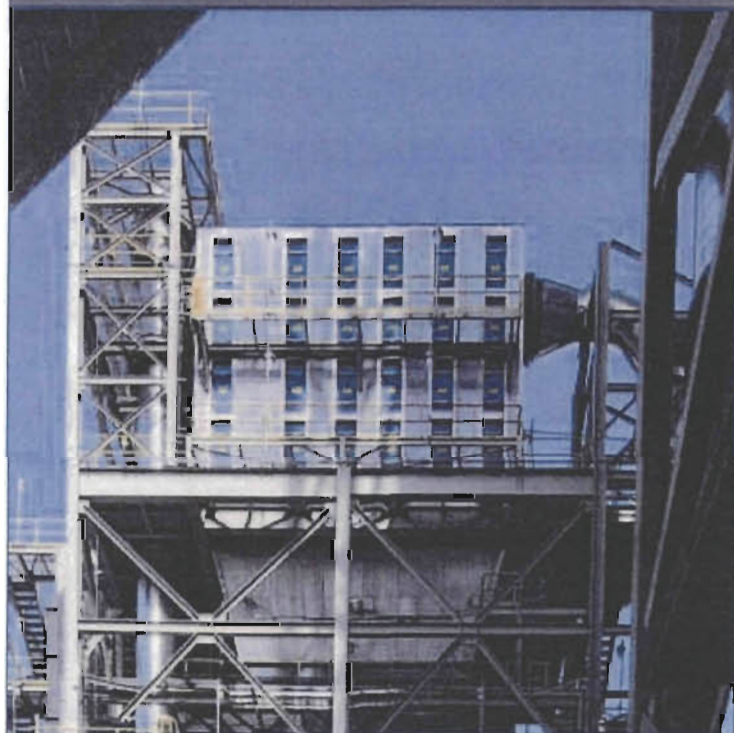
Contract equipment flow sheet
Cool mill - areas 241 and 461
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

COAL HANDLING SYSTEM
461.BF500



Pennsuco Cement

EU ID#	EU Source		BF Unit ID
026	Coal System		461.BF500
Control Equipment Make	Model #	# of Bags	
FLS Airtech	735SX12	735	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
54500	13855	3.9:1	420



EU ID#	EU Source		BF Unit ID
026	Coal System		461.BF650
Control Equipment Make	Model #	# of Bags	
FLS Airtech	800/7	9	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
294	75	3.9:1	67



Emission Control Equipment
Aug05

NOTE:
THIS DUST COLLECTOR EQUIPPED WITH EXPLOSION VENTS MUST BE LOCATED IN THE SYSTEM ARRANGEMENT IN EITHER OF THE FOLLOWING WAYS TO PROVIDE PERSONNEL SAFETY:

1. IF THE COLLECTOR IS LOCATED OUTSIDE, THE SIDES OF THE COLLECTOR WITH THE EXPLOSION VENTS MUST BE LOCATED AWAY FROM ANY WORKING OR TRAFFIC AREA SO THAT PERSONNEL WILL NOT PASS BY THE VENTS WHILE THE COLLECTOR IS IN OPERATION.

2. IF THE COLLECTOR IS LOCATED WITHIN A BUILDING, APPROPRIATE DUCTS MUST BE PROVIDED TO DIRECT ANY EXPLOSION VENT GASES OUTSIDE THE BUILDING AND AWAY FROM ANY WORKING OR TRAFFIC AREAS WHILE THE COLLECTOR IS IN OPERATION.

DESIGN DATA

MODEL	- 735SX12(6)
APPLICATION	- COAL MILL
GAS VOLUME	- 54,500 ACFM
OPERATING TEMPERATURE	- 176°F
CLOTH AREA	- 13,855 ft ²
AIR TO CLOTH RATIO	- 3.93 : 1
BAG SIZE	- 6" DIA X 12'-0" LG
NUMBER OF BAGS	- 735
DESIGN PRESSURE	- -42" W.G.
DUST EMISSIONS	- <.001 grains/dscf
MAX. DUST DISCHARGE	- 10,620 FT ³ /HR
DUST DENSITY	- 30LB/FT ³ FOR VOLUMETRIC SIZING - 50LB/FT ³ FOR DRIVE SIZING
COMPRESSED AIR REQUIREMENT	- 135 SCFM @ 90-100 PSIG CLEAN, DRY & OIL FREE

ITEM NO.	DESCRIPTION	PART NUMBER
1	JET PULSE COLLECTOR MODEL 735SX12(6)	336-02-4-0105 00
1	UPPER HOUSING FIELD ASSEMBLY	336-02-4-0151 00
2	LOWER HOUSING & INLET MANIFOLD FIELD ASSEMBLY	336-02-4-0152 00
3	HOPPER FIELD ASSEMBLY	336-02-4-1400 00
4	SUPPORT STEEL FIELD ASSEMBLY	336-02-4-0502 00
5	SPOOL PIECE WITH SUPPORT FIELD ASSEMBLY	336-02-4-2203 00
6	MANUAL SLIDE GATE	
7	SCREW CONVEYOR	
8	2500 METRIC FEEDER NFPA	
9	FILTER BAG (BY OTHERS)	
10	BAG CAGE WITH VENTURI (BY OTHERS)	
11	MAGNETIC GAUGE & PIPING ASSEMBLY	325-75-3-2003 00
12	PRESSURE GAUGE, 1/4" NPT BOTTOM CONN. 0-160 PSI	500-01-0-6007 00
13	3 1/2" DIAL FACE, BLK. STL. CASE MARSHALLTOWN FLG23	000-00-7-4150 00
14	PIPE 1/4" SCH 40 X 13' LG. T.B.E.	000-00-5-3095 00
15	COUPLING 1/4" NPT 150#	000-00-5-0885 00
15	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	

FIELD BOLT NOTES

- SUMMARY QUANTITIES LISTED ARE GREATER THAN ACTUAL COUNT (PLUS 10%).
- DO NOT MAKE SUBSTITUTIONS WITHOUT ENGINEERING APPROVAL.
- BAG ALL NUTS, BOLTS & WASHERS AND TAG WITH METAL IDENTIFICATION.
- ALL NUTS, BOLTS & WASHERS SHALL BE ZINC PLATED.

FIELD GASKET NOTES

- ALL GASKETS SHALL BE FIBERGLASS DROPWARP TAPE, 2" WIDE X 1/4" THICK.
- SILICONE RUBBER ADHESIVE/SEALANT, HIGH TEMPERATURE, G.E. RTV-102 OR EQUAL, SHALL BE USED WITH ALL GASKETING (QTY. AS REQ'D)

APPLICATION SHALL BE AS FOLLOWS:

- APPLY COAT OF SEALANT TO ONE SIDE OF GASKET.
- CLEAN & APPLY LIBERAL COAT OF SEALANT TO SURFACES TO BE SEALED.
- PLACE COATED SIDE OF GASKET ON SURFACE.

GENERAL FABRICATION NOTES:

- ALL FABRICATED ITEMS SHALL BE SUBJECT TO INSPECTION DURING FABRICATION BY AN AUTHORIZED FULLER BULK HANDLING INSPECTOR. ANY EVIDENCE THAT THE FABRICATED ITEMS ARE NOT FURNISHED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS DRAWING AND ASSOCIATED DRAWINGS, AND THESE SPECIFICATIONS SHALL BE SUFFICIENT CAUSE FOR REJECTION.
- ALL WELDING SHALL CONFORM TO REQUIREMENTS OF THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE D11" LATEST EDITION.
- PROPER WELDING ROD SELECTION IS THE MANUFACTURERS RESPONSIBILITY, UNLESS NOTED.
- ALL SEAL WELDS TO BE CONTINUOUS AND GASTIGHT. ENSURE SEAL WELDS TIE TOGETHER.
- PAIN PER PAINT SPECIFICATION.
- MARK PART NO. BEFORE SHIPMENT.
- ALL DIMENSIONS ARE IN INCH. DIMENSIONS IN BRACKETS ARE IN MILLIMETER.
- SHOP TO PROVIDE TEMPORARY SUPPORT/STIFFENER FOR SHIPPING.

MATERIAL SPECS:

- ALL MATERIALS SHALL BE NEW AND UNDAMAGED AND SHALL CONFORM TO PERTINENT AISC AND ASTM STANDARD SPECIFICATIONS.
- ALL FABRICATED MATERIALS SHALL CONFORM TO THE TOLERANCES SPECIFIED IN THE AISC MANUAL, AND SHALL BE FABRICATED IN TOLERANCES THAT PERMIT FIELD ERECTION.
- ALL W, M, WT, S AND C STRUCTURAL SHAPES SHALL MEET ASTM A-572, GRADE 50 REQUIREMENTS. ALL OTHER STRUCTURAL SHAPES, PLATES SHALL MEET ASTM A36.
- ALL SHEETS AND STRIPS - LOW CARBON COMMERCIAL QUALITY ASTM - A569 STEEL.
- ALL FLAT BARS ARE ASTM-A575 M-1020.
- ROUNDS 5/16" TO 5 1/2" C-1018 (C.R.S.).
- ALL PIPE TO BE ASTM-A53 GR. B
- MATERIALS TO BE AS SPECIFIED UNLESS NOTED.
- ALL BOLTS/NUTS/WASHER TO CONFORM ASTM-A-325 (HIGH STRENGTH BOLT) ZN PLATED.

NOTES:

- FILTER BAGS AND CAGES (BY OTHERS)
- ACCESS PLATFORMS, LADDERS, AND SUPPORT STEEL (DESIGN BY FLS-MILJO ONLY)
- PAINT:
SP2/SP3 SURFACE PREPARATION
ONE (1) COAT RUST INHIBITIVE PRIMER, GRAY, ONE (1) SIDE ONLY.
NO FINISH PAINT.
- HEADER ASSEMBLY SHIPPED LOOSE FOR FIELD INSTALLATION.
- SYSTEM TO BE FIELD INSULATED (TOP OF THE STIFFENERS).
- INSTALL SHED PLATES (FIELD INSTALLATION) ON HOPPER INTERNAL STIFFENERS AFTER ERECTION OF HOPPER & HOUSING PER HOPPER DRAWING.

PENNSUCO CEMENT COMPANY
FL SMIDTH INC CONTACT NO. 15-01-20133
FL SMIDTH INC P.O. NO. 4-0120133-13757
EQUIPMENT NOS:-
461.BF500 - COAL COLLECTOR
461.SC510 - SCREW CONVEYOR
461.SG518 - SLIDE GATE
461.RF520 - ROTARY FEEDER

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	REVISION	REVISED FLSMIDTH P.O. NUMBER
10	JTB	RJK	NC				REVISED HANDRAIL AT ACCESS DOOR
9	JTB	RJK	NC				REVISED HOPPER FIELD JOINT SEE REVISION 8 SHEET 2 IN VIEW B-B EL. 106'-9 7/8" WAS 106'-10"
8	RJK	NC	BTB				ADDED HOPPER FIELD JOINT SEE REVISION 7 SHEET 2
7	RJK	NC	BTB				TOP OF GRATING AT AIR HEADER SIDE ALTERED.
6	LP	SB	JFS				REVISED PER CUSTOMER COMMENTS.
5	AH	SB	JFS				ITEM 32 ADDED. SECTION J-J DELETED. SHT. 2 REVISED. NOTE 6 ADDED.
4	BARUN	SB	JFS				ITEM, BOW & FIELD WELDING ADDED. SHEET 2 REVISED.
3	BARUN	SB	JFS				REVISED PER CUSTOMER COMMENTS. SHEET 2 REVISED.
2	BARUN	SB	JFS				STUB COLUMN ADDED. LOGO ALTD. SHEET 2 REVISED.
1	BARUN	SB	JFS				

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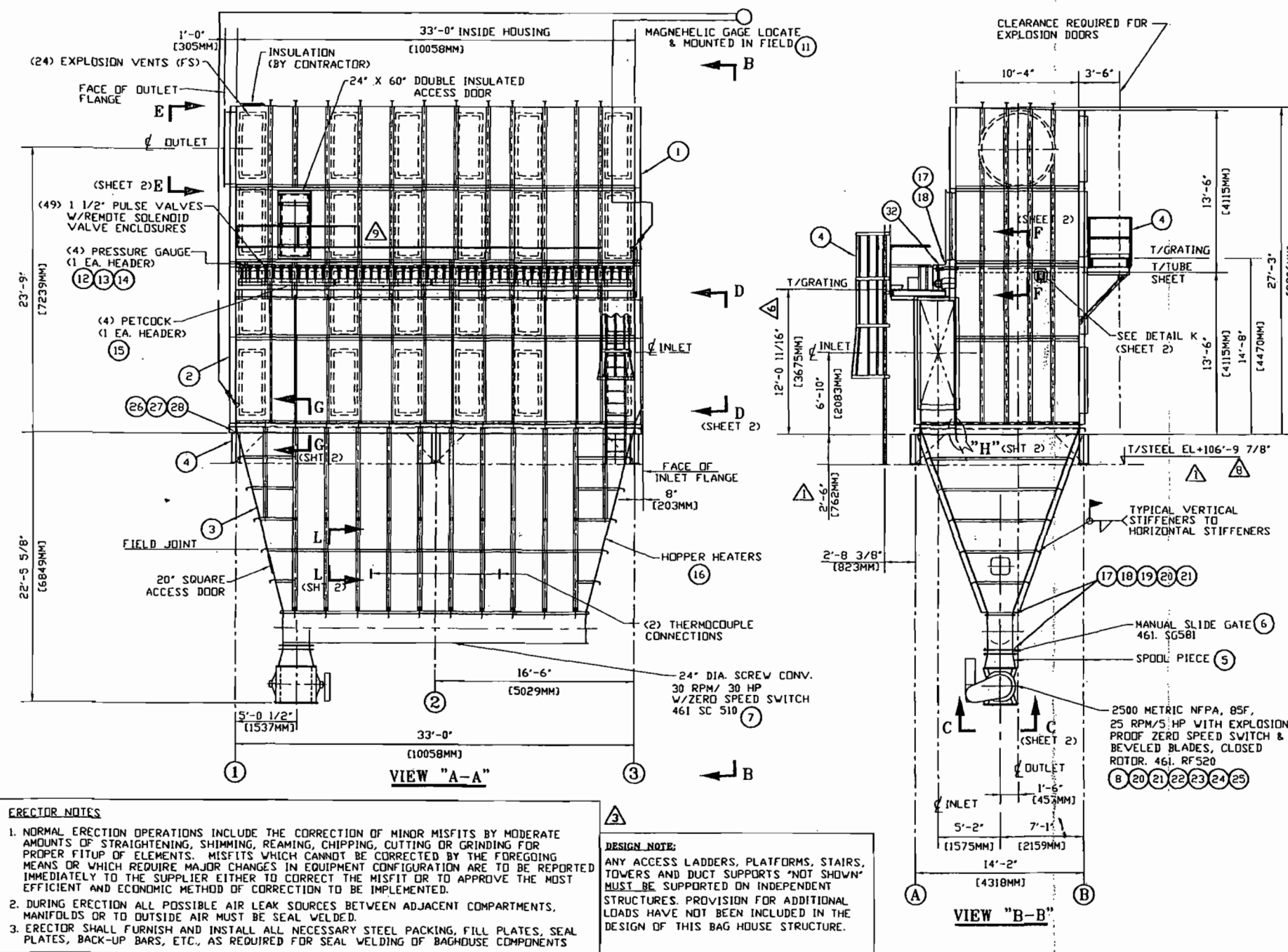
FLS miljø Inc.
Bethlehem, Pa. 18017 USA

DR. JTB	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 735SX12(6)
APPR. JFS	JET PULSE COLLECTOR
DATE 16JAN02	PENNSUCO CEMENT COMPANY, MEDLEY, FL.
SCALE 3/8"=1'-0"	DRAWING NUMBER
MICRO	REV. SHEET
	336-02-4-0105 10 OF 2

PLAN VIEW

VIEW "A-A"

VIEW "B-B"

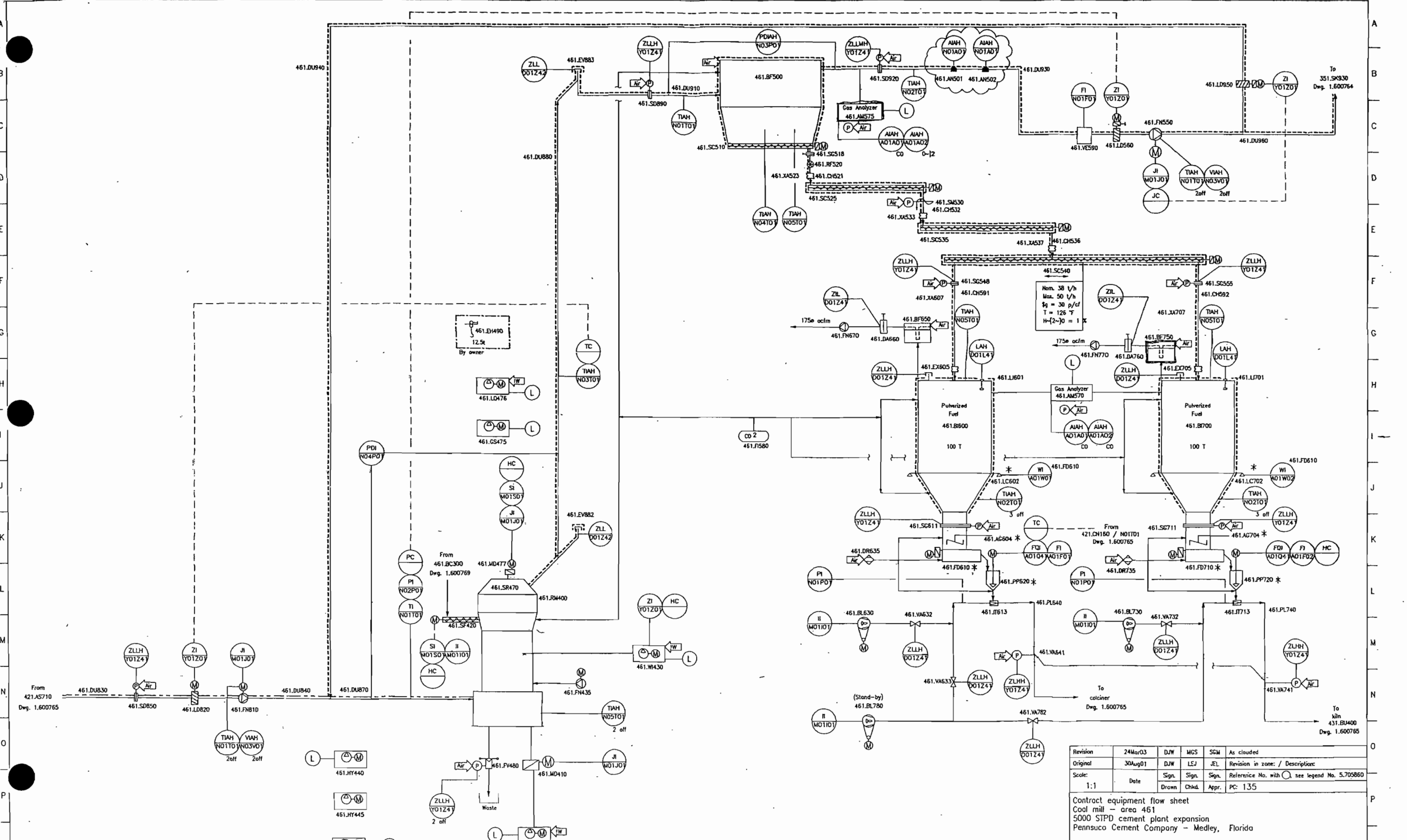


ERECTOR NOTES

- NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.
- DURING ERECTION ALL POSSIBLE AIR LEAK SOURCES BETWEEN ADJACENT COMPARTMENTS, MANIFOLDS OR TO OUTSIDE AIR MUST BE SEAL WELDED.
- ERECTOR SHALL FURNISH AND INSTALL ALL NECESSARY STEEL PACKING, FILL PLATES, SEAL PLATES, BACK-UP BARS, ETC., AS REQUIRED FOR SEAL WELDING OF BAGHOUSE COMPONENTS

DESIGN NOTE:

ANY ACCESS LADDERS, PLATFORMS, STAIRS, TOWERS AND DUCT SUPPORTS "NOT SHOWN" MUST BE SUPPORTED ON INDEPENDENT STRUCTURES. PROVISION FOR ADDITIONAL LOADS HAVE NOT BEEN INCLUDED IN THE DESIGN OF THIS BAG HOUSE STRUCTURE.



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* Part of and controlled by Schenck System 461.FD610 and 461.FD710

Documentum Version No. 6.0

Revision	24Mar03	DJW	MGS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drown	Chkd.	Appr.	PC: 135

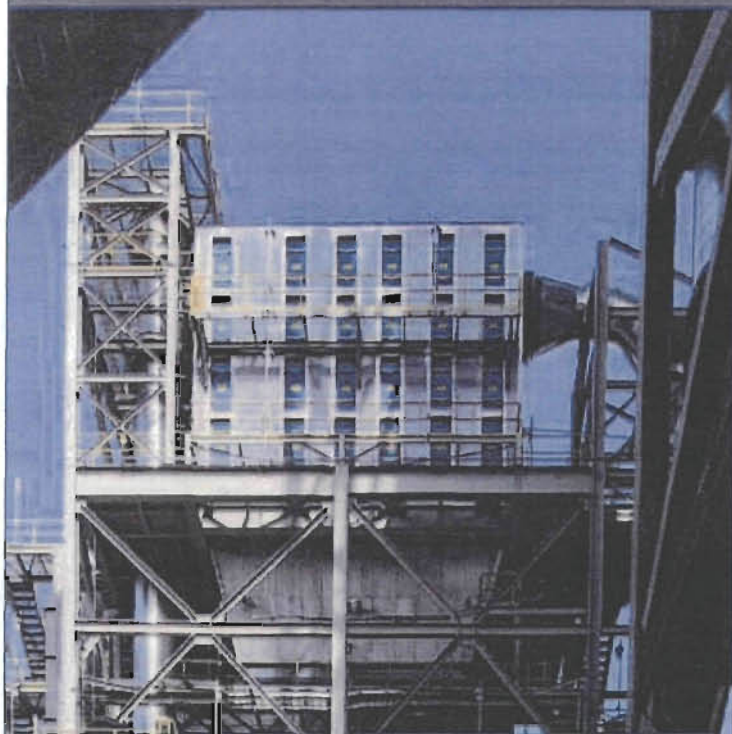
Contract equipment flow sheet
Coal mill - area 461
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

COAL HANDLING SYSTEM
461.BF650

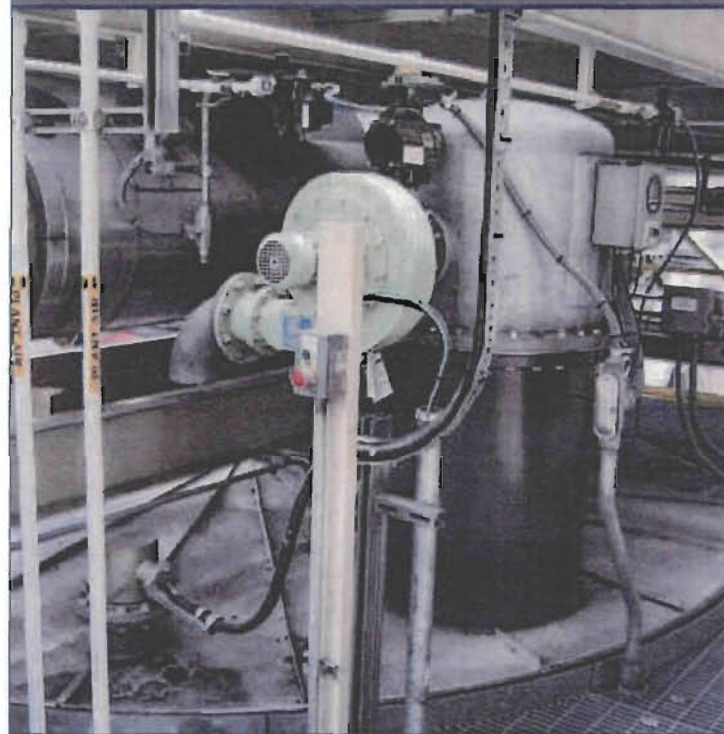


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
026	Coal System		461.BF500
Control Equipment Make	Model #	# of Bags	
FLS Airtech	735SX12	735	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
54500	13855	3.9:1	420



EU ID#	EU Source		BF Unit ID
026	Coal System		461.BF650
Control Equipment Make	Model #	# of Bags	
FLS Airtech	800/7	9	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
294	75	3.9:1	67



Emission Control Equipment
Aug05

Contract Instruction Manual

Pennsuco Cement Company

FLSmidth Contract No. 01-20133

Manual No. 7.703003

Vendor Name: Thorwesten Vent GmbH

Equipment Nos.: 461.B1 600/700

461.EX 605/705

461.LC 602/702

461.BF 650/750

461.DA 660/760

461.FN 670/770

461.EX.882/883

Thorwesten Vent GmbH, Daimlerring 39, D-59269 Beckum

Tel: +49/2521/93 91-0, Fax: - 33, thorwesten.vent@thorwesten.com, www.thorwesten.com

Thorwesten Vent L.P., 5126 South Royal Atlanta Drive, Tucker, GA 30084, USA

Tel: +1/770/493-4337, fax: +1/770/934-3384, thorwesten.vent.lp@thorwesten.com



OPERATING INSTRUCTIONS

for

TOP LOAD ROUND AIR JET CLEANED ASPIRATION PRE-ASSEMBLED DUST
COLLECTOR

Type 800/7,7

Supplied via:

Thorwesten Vent LP
5126 Sth Royal Atlanta Drive
USA - Tucker, GA 30084

For TV LPs Customer:

F.L. Smidth Inc.
2040 Avenue C
USA - Bethlehem, PA 18017-2188

Project:

Pennsuco Cement Company

F.L. Smidth's Contract No.: 01-20133

Manual No.: 7.703003

Equipment No.:

Dust Collector: 329665r0/461.BF650 + 461.DA760

Butterfly Valve: 329654r0/461.DA660 + 461.DA760

Delivery Date:

November 2002

TV Com.-No.:

599 E 2010

TV Ident-No.:

042-4624 / 042-4625

Thorwesten Vent GmbH, Daimlerring 39, D-59269 Beckum

Tel: +49/2521/93 91-0, Fax: - 33, thorwesten.vent@thorwesten.com, www.thorwesten.com

Thorwesten Vent L.P., 5126 South Royal Atlanta Drive, Tucker, GA 30084, USA

Tel: +1/770/493-4337, fax: +1/770/934-3384, thorwesten.vent.lp@thorwesten.com



OPERATING INSTRUCTIONS

for

TOP LOAD ROUND AIR JET CLEANED ASPIRATION PRE-ASSEMBLED DUST COLLECTOR

Type 800/7,7

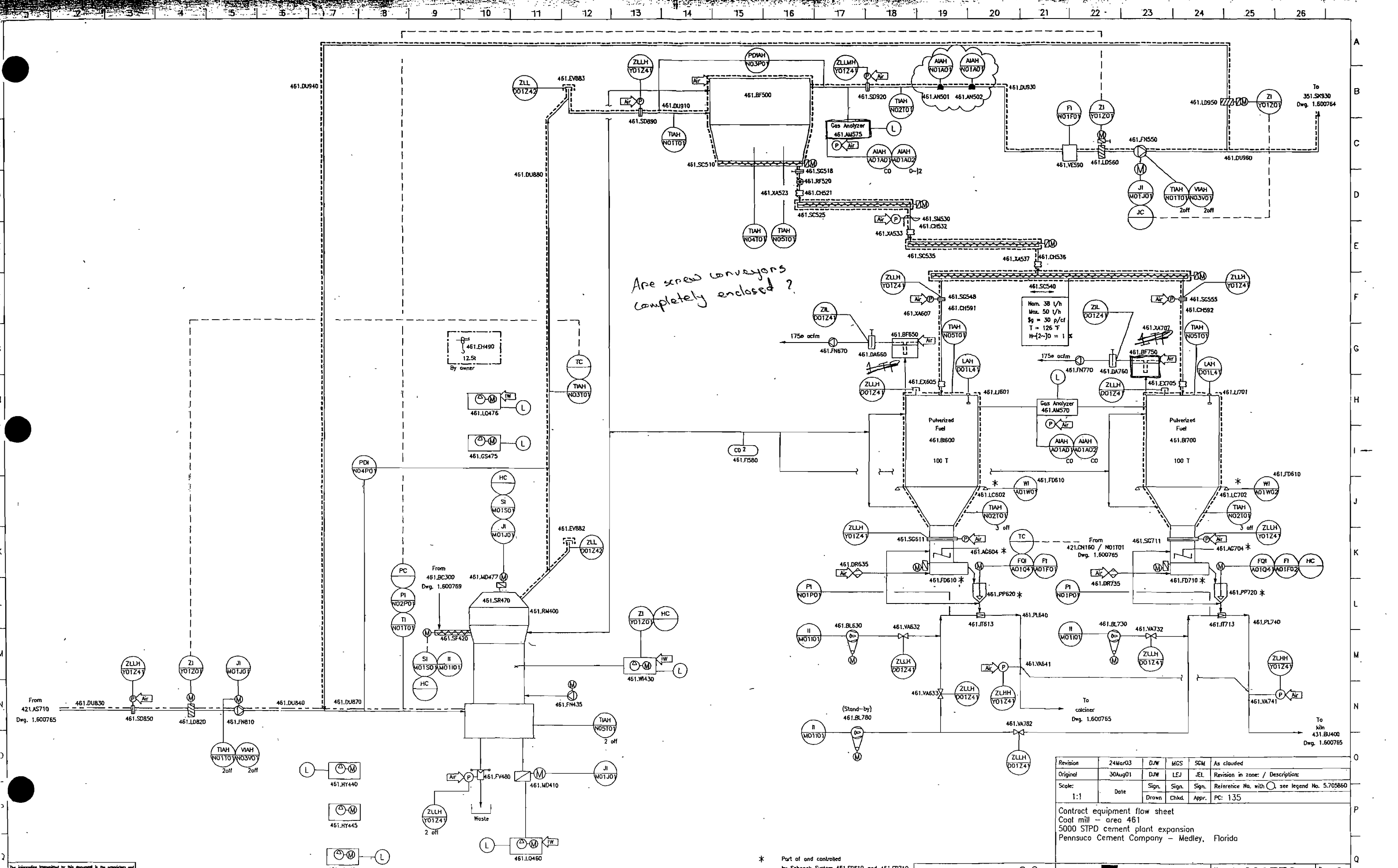
1 Technical data

Customer / Projekt:	Pennsuco Cement Company
Com.-No.:	599 A 2010
Date of delivery:	November 2002
Filter type:	800/7,7
Fabric-No.:	042-4624 / 042-4625
Kind of operation:	dedusting
Operation method:	without permanent operating personal

Type of gas:	air
Type of dust:	pulverized coal
Effective air flow rate:	500 m³/h
Temperature:	88° C
Expected pressure difference:	1000 pa
Operating pressure:	
Filter surface:	7,7 m²
Sound pressure level during operation condition: (according to DIN 45 635 T.1)	80 dB(A)

Sleeves

Quantity:	9
Nominal diameter:	160 mm
Nominal length:	1650 mm
Quality:	PEV560
Cleaning cycle:	120 s
Cycle time:	12 s
Pulse time, electrically adjusted:	0,05 s



Are screw conveyors completely enclosed?

Revision	24Mar03	DJW	MGS	SGM	As clauded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Date	Sign.	Sign.	Reference No. with see legend No. 5.705860
			Drown	Chkd.	Appr. PC: 135

Contract equipment flow sheet
Coal mill - area 461
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

* Part of and controlled by Schenck System 461.FD610 and 461.FD710

Documentum Version No. 6.0

FLSMIDTH

No.: 1.600770 Rev. 6

COAL HANDLING SYSTEM
461.BF750

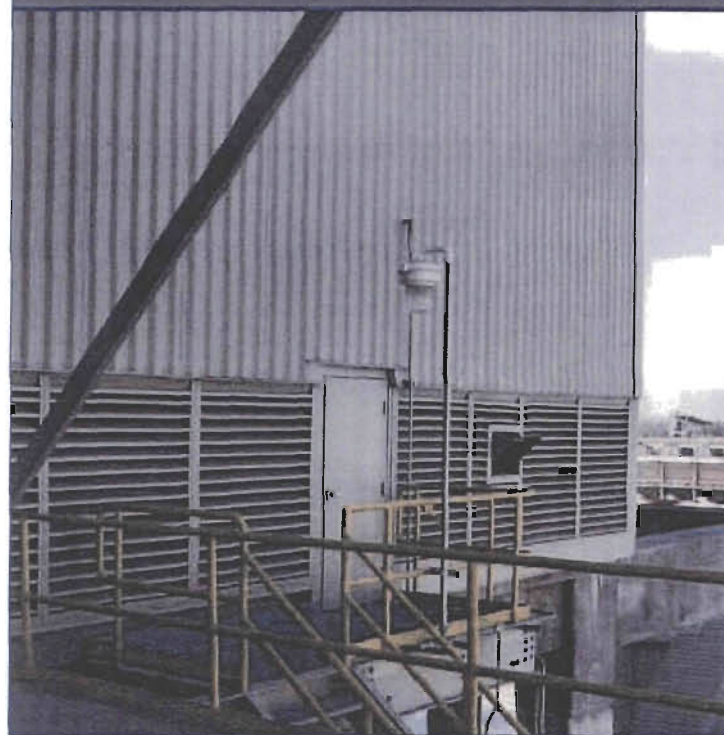


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
026	Coal System		461.BF750
Control Equipment Make	Model #	# of Bags	
FLS Airtech	800/7	9	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
294	75	3.9:1	67



EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		441.BF540
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4600	1302	3.5:1	53



Emission Control Equipment
Aug05

Contract Instruction Manual

Pennsuco Cement Company

FLSmidth Contract No. 01-20133

Manual No. 7.703003

Vendor Name: Thorwesten Vent GmbH

Equipment Nos.: 461.B1 600/700
461.EX 605/705
461.LC 602/702
461.BF 650/750
461.DA 660/760
461.FN 670/770
461.EX.882/883

Thorwesten Vent GmbH, Daimlerring 39, D-59269 Beckum

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Thorwesten Vent L.P., 5126 South Royal Atlanta Drive, Tucker, GA 30084, USA

Tel: +1/770/493-4337, fax: +1/770/934-3384, thorwesten.vent.lp@thorwesten.com



OPERATING INSTRUCTIONS

for

TOP LOAD ROUND AIR JET CLEANED ASPIRATION PRE-ASSEMBLED DUST
COLLECTOR

Type 800/7,7

Supplied via:	Thorwesten Vent LP 5126 Sth Royal Atlanta Drive USA - Tucker, GA 30084
For TV LPs Customer:	F.L. Smidth Inc. 2040 Avenue C USA - Bethlehem, PA 18017-2188
Project:	Pennsuco Cement Company
F.L. Smidth's Contract No.:	01-20133
Manual No.:	7.703003
Equipment No.:	
Dust Collector:	329665r0/461.BF650 + 461.DA760
Butterfly Valve:	329654r0/461.DA660 + 461.DA760
Delivery Date:	November 2002
TV Com.-No.:	599 E 2010
TV Ident-No.:	042-4624 / 042-4625

Thorwesten Vent GmbH, Daimlerring 39, D-59269 Beckum

Tel: +49/2521/93 91-0, Fax: - 33, thorwesten.vent@thorwesten.com, www.thorwesten.com

Thorwesten Vent L.P., 5126 South Royal Atlanta Drive, Tucker, GA 30084, USA

Tel: +1/770/493-4337, fax: +1/770/934-3384, thorwesten.vent.lp@thorwesten.com



OPERATING INSTRUCTIONS

for

TOP LOAD ROUND AIR JET CLEANED ASPIRATION PRE-ASSEMBLED DUST COLLECTOR

Type 800/7,7

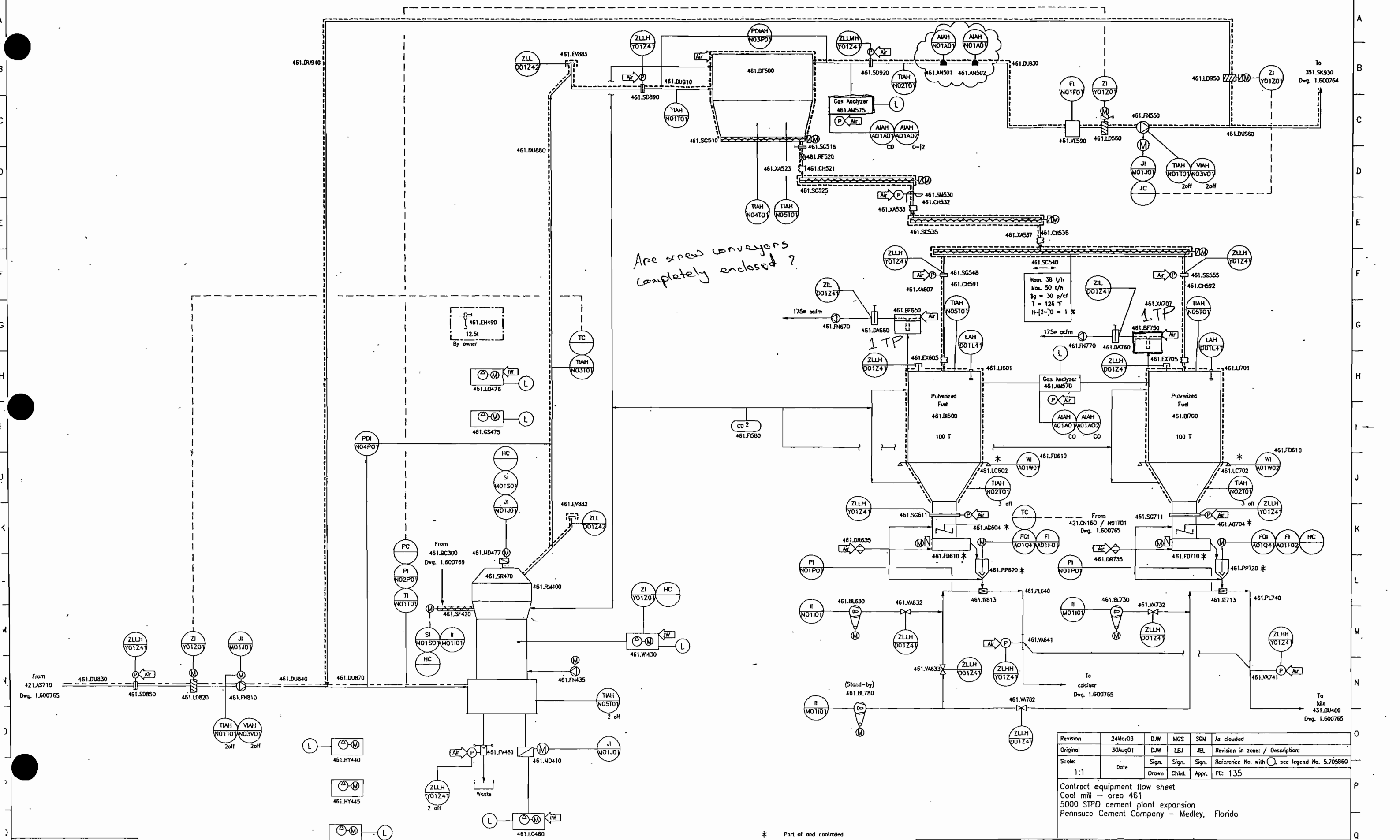
1 Technical data

Customer / Projekt:	Pennsuco Cement Company
Com.-No.:	599 A 2010
Date of delivery:	November 2002
Filter type:	800/7,7
Fabric-No.:	042-4624 / 042-4625
Kind of operation:	dedusting
Operation method:	without permanent operating personal

Type of gas:	air
Type of dust:	pulverized coal
Effective air flow rate:	500 m³/h
Temperature:	88° C
Expected pressure difference:	1000 pa
Operating pressure:	
Filter surface:	7,7 m²
Sound pressure level during operation condition: (according to DIN 45 635 T.1)	80 dB(A)

Sleeves

Quantity:	9
Nominal diameter:	160 mm
Nominal length:	1650 mm
Quality:	PEV560
Cleaning cycle:	120 s
Cycle time:	12 s
Pulse time, electrically adjusted:	0,05 s



Are screw conveyors completely enclosed?

Revision	24Mar03	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Date	Sign.	Sign.	Reference No. with see legend No. 5.705860
		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Cool mill - area 461
5000 STPD cement plant expansion
Pennisuco Cement Company - Medley, Florida

* Part of and controlled by Schenck System 461.FD610 and 461.FD710

Documentum Version No. 6.0

FLSMIDTH

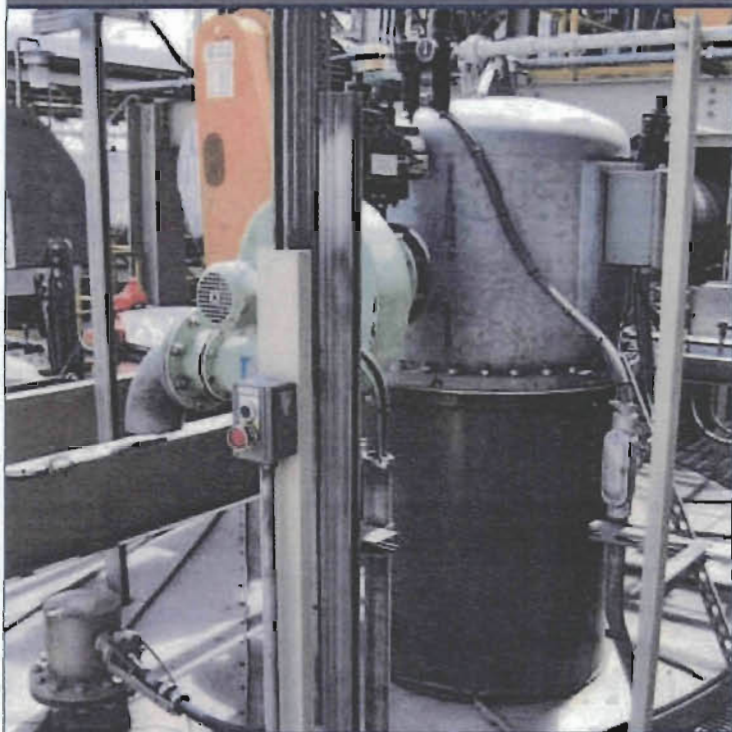
No. 1 600770 Rev. 6

CLINKER HANDLING AND STORAGE
441.BF450



Pennsuco Cement

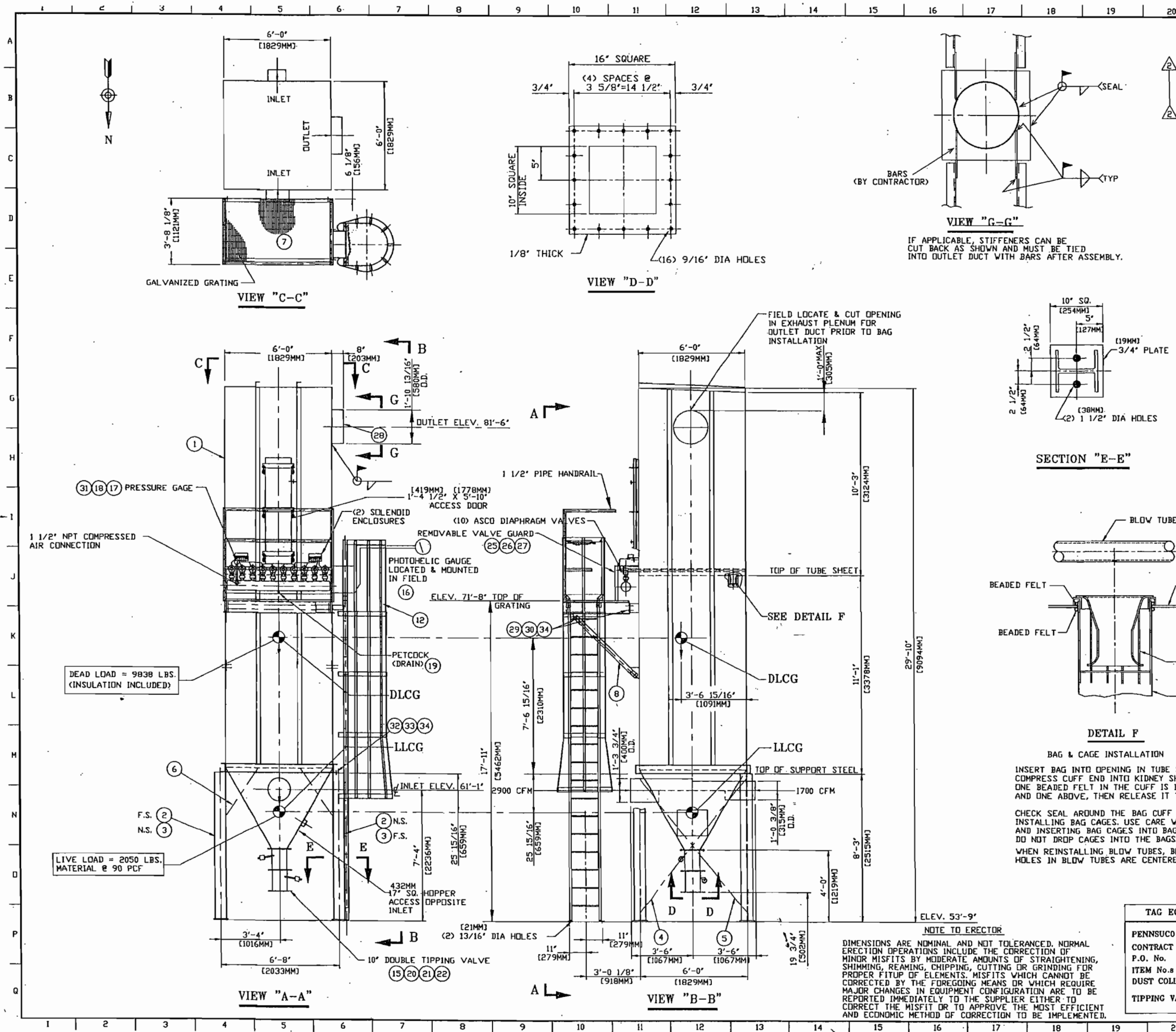
EU ID#	EU Source		BF Unit ID
026	Coal System		461.BF750
Control Equipment Make	Model #	# of Bags	
FLS Airtech	800/7	9	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
294	75	3.9:1	67



Emission Control Equipment
Aug05

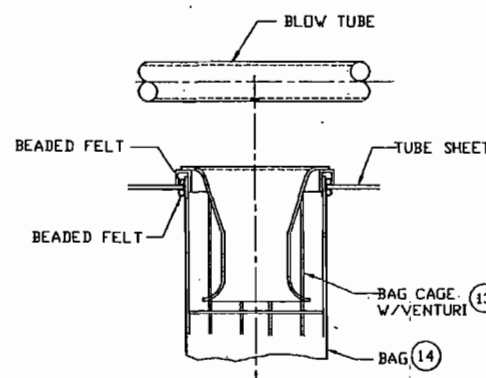
EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		441.BF540
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4600	1302	3.5:1	53





ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)	
		JET PULSE COLLECTOR WT. 9850# [4468Kg]	336-02-4-0126	00
1	1	HOUSING & HOPPER ASSEMBLY	336-02-4-0176	00
2	2	COLUMN	336-02-4-0516	01
3	2	COLUMN	336-02-4-0516	02
4	2	BRACE	336-02-4-0516	03
5	2	BRACE	336-02-4-0516	04
6	4	BRACE	336-02-4-0516	05
7	1	PLATFORM WITH HANDRAIL	336-01-4-0541	01
8	2	PLATFORM BRACE	336-01-2-0557	01
9				
10				
11				
12	1	LADDER WITH CAGE	336-02-4-0703	01
13	100	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902	01
14	100	BAG 5' DIA X 10'-0" LG SINGED POLYESTER	314-79-4-0001	54
15	1	10" DOUBLE TIPPING VALVE	303-73-2-0309	01
16	1	PHOTOHELIC GAUGE & PIPING ASSEMBLY	325-75-2-2003	04
17	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI 3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	500-01-0-6007	00
18	1	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095	00
19	1	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL		
20	1	1' X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176	51
21	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022	49
22	16	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420	00
23				
24				
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022	16
26	2	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022	28
27	1	VALVE COVER PLATE	336-99-2-2011	01
28	1	OUTLET DUCT	336-02-3-1510	01
29	48	HEX NUT 3/4" 10NC ASTM-A325		
30	48	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002	54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.		
32	8	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436		
33	8	HEAVY HEX NUT 3/4" 10NC ASTM-A363, GRADE C		
34	56	HEX HD BOLT 3/4" 10NC X 2' LG ASTM-A325	040-00-4-0022	26
35	1	VJ-10 TIMER (NEMA 4 ENCL.) NOT SHOWN	315-84-4-3019	00

DESIGN DATA	
1. MODEL	-- 100C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 4600 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20\"/>



BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.

WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

TAG EQUIPMENT AS FOLLOWS

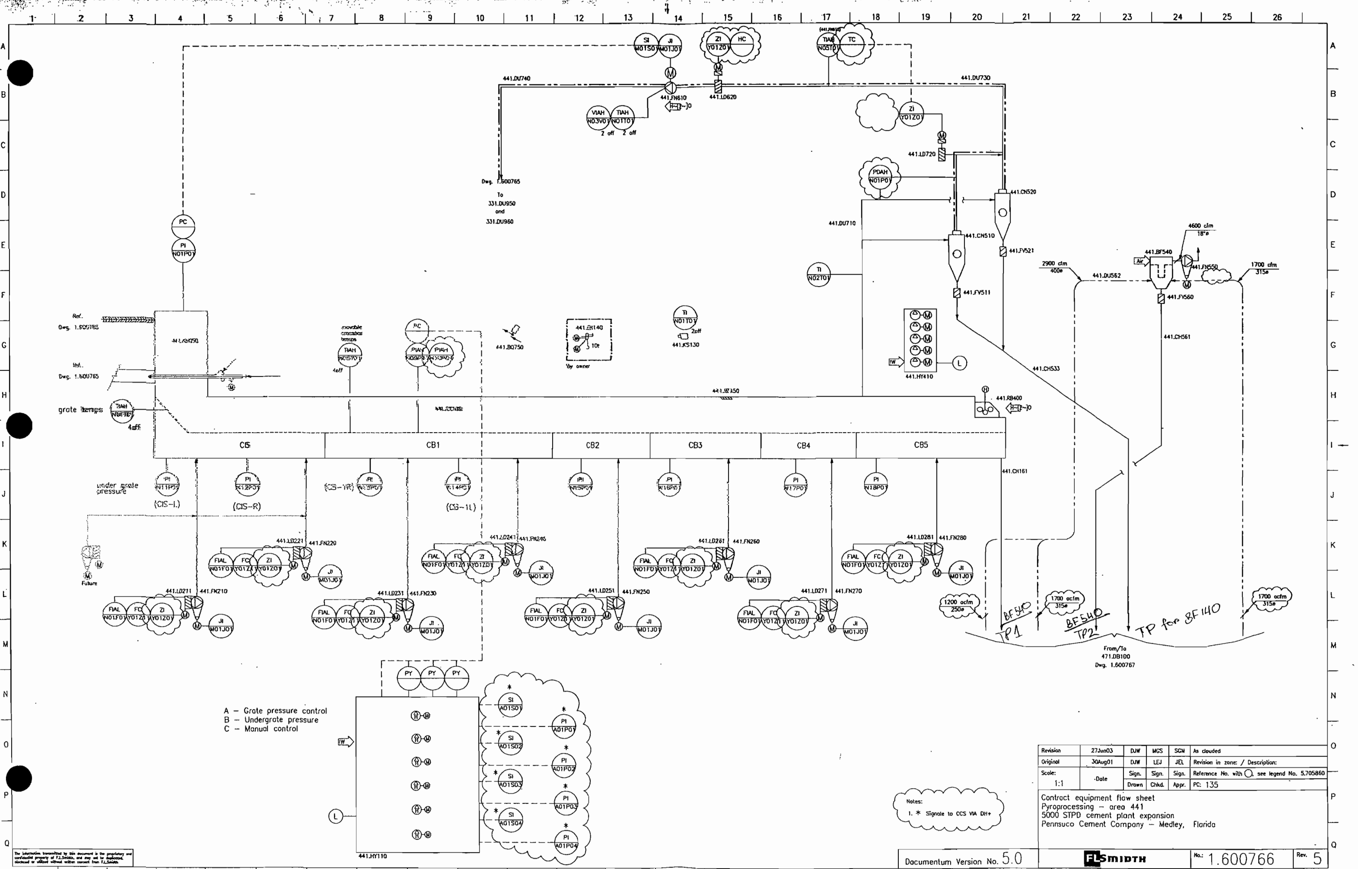
PENNSUCO CEMENT COMPANY
 CONTRACT No. 15-01-20133
 P.O. No. 4-01-20133-14117
 ITEM No. 8
 DUST COLLECTOR - 441.BF540
 TIPPING VALVE - 441.FV560

NOTE TO ERECTOR

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

REVISED PER CUSTOMER MARKED DRAWING DATED 26APR02 WAS SINGLE 18\"/>

 ELSMIDTH AIRTECH															
Bethlehem, Pa. 18017 USA															
DR. DMR	GENERAL ARRANGEMENT														
CHD. EL	MODEL SIZE 100C10 JET PULSE COLLECTOR														
APPR. JFS	DUAL INLET 400MM; 315MM														
DATE 27MAR02	PENNSUCO CEMENT COMPANY								MEDLEY, FL.						
SCALE 3/8"=1'	DRAWING NUMBER								REV.	SHEET					
MICRO	3	3	6	-	0	2	-	4	-	0	1	2	6	2	NO. 1 OF 1
	23			24			25			26					
DWG. NO. 336-02-4-0126															



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Documentum Version No. 5.0

Revision	27Jun03	DJW	MCS	SGN	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
	-Date	Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Pyroprocessing - area 441
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

FLSMIDTH

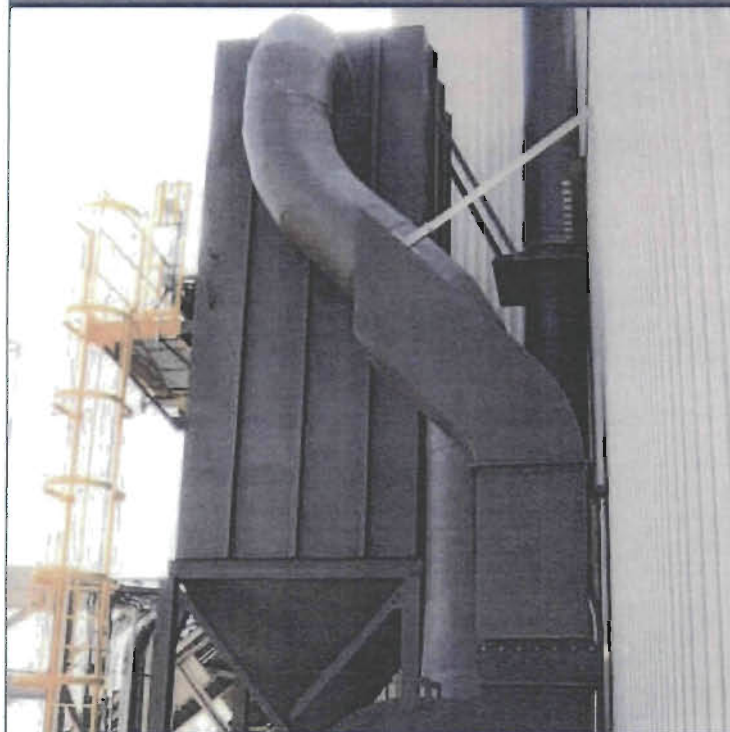
No.: 1.600766 Rev. 5

CLINKER HANDLING AND STORAGE
481.BF140

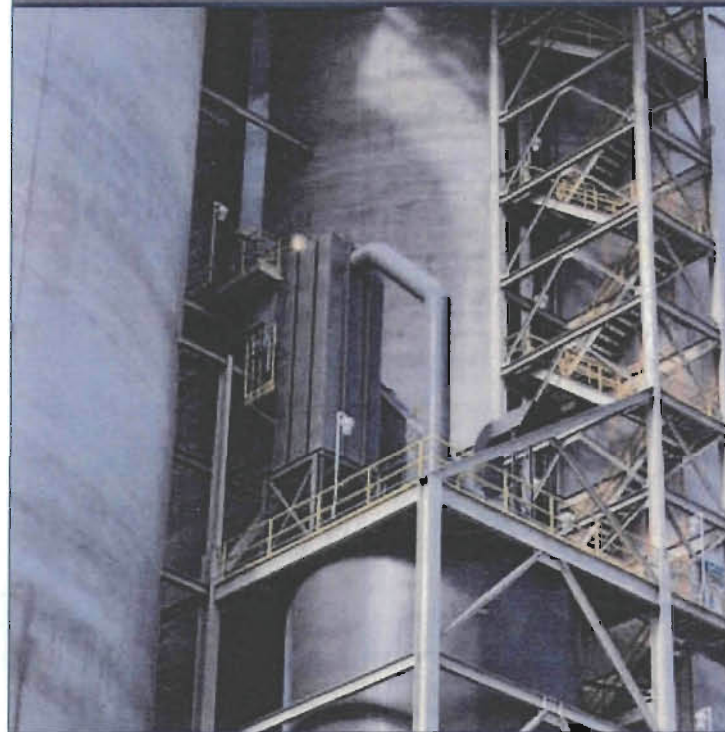


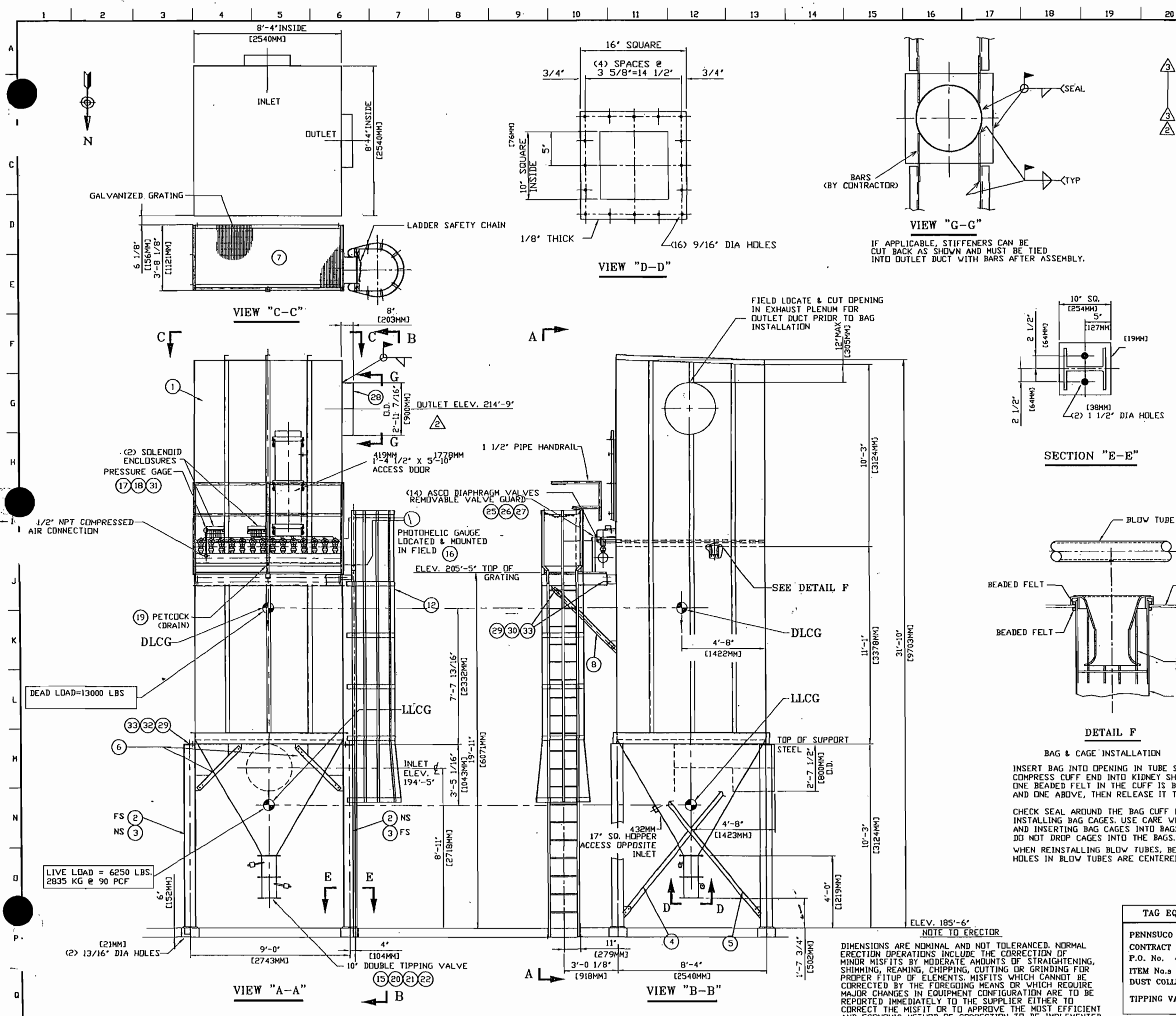
Pennsuco Cement

EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF140
Control Equipment Make	Model #	# of Bags	
FLS Airtech	196C10	196	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
12000	2552	4.7:1	185



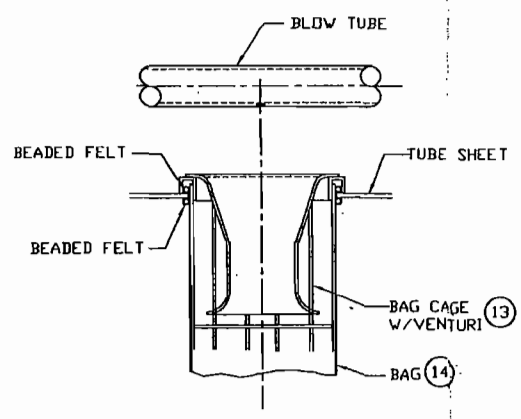
EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF330
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
6100	1302	4.7:1	103





ITEM ID		DESCRIPTION		ITEM ID	
PART NUMBER				PART NUMBER	
		JET PULSE COLLECTOR	WT. 13000# [5897Kg]	336-02-4-0135	00
1	1	HOUSING & HOPPER ASSEMBLY		336-02-4-0174	00
2	2	COLUMN		336-02-4-0518	01
3	2	COLUMN		336-02-4-0518	02
4	2	BRACE		336-02-4-0518	03
5	2	BRACE		336-02-4-0518	04
6	4	BRACE		336-02-4-0518	05
7	1	PLATFORM WITH HANDRAIL		336-01-4-0550	01
8	2	PLATFORM BRACE		336-01-2-0557	01
9					
10					
11					
12	1	LADDER WITH CAGE		336-02-4-0706	01
13	196	BAG CAGE & VENTURI ASSEMBLY		325-85-4-1902	01
14	196	BAG 5' DIA X 10'-0" LG	SINGED POLYESTER	314-79-4-0001	54
15	1	10' DOUBLE TIPPING VALVE		303-73-2-0309	01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY		325-75-2-2003	04
17	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI		500-01-0-6007	00
		3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23			
18	1	COUPLING 1/4" NPT 150# M.I.		000-00-5-3095	00
19	1	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL			
20	1	1' X 1/8" X 5'-0" LG. J-Caulk NO. 7446	BURNSTINES	000-02-0-0176	51
21	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG	ZINC PL	040-00-4-0022	49
22	16	HEX NUT 1/2" 13NC	ZINC PL	040-00-0-4420	00
23					
24					
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG	ZINC PL	040-00-4-0022	16
26	2	HEX NUT 3/8" 16NC	ZINC PL	040-00-4-0022	28
27	1	VALVE COVER PLATE		336-99-2-2011	01
28	1	OUTLET DUCT		336-02-3-1514	01
29	56	HEX HD BOLT 3/4" 10NC X 2" LG	ASTM-A325		
30	48	PLAIN FLAT WASHER 3/4" DIA	ASTM-A325	040-00-4-0002	54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.			
32	8	HARDENED BEVEL WASHER 3/4" DIA.	ASTM-F436		
33	56	HEAVY HEX NUT 3/4" DIA.	ASTM-563, GRADE C		
34	1	WJ-10 TIMER (NEMA 4 ENCL.)	(NOT SHOWN)	315-84-4-3019	00

DESIGN DATA	
1. MODEL	-- 198C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 12000 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 196
9. TOTAL CLOTH AREA	-- 2562 FT ²
10. AIR TO CLOTH RATIO	-- 4.7 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG



TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	
CONTRACT No. 15-01-20133	
P.O. No. 4-01-2013-14117	
ITEM No.s	
DUST COLLECTOR - 481.BF140	
TIPPING VALVE - 481.FV180	

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FIT OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	ITEM #2 THRU 6 WERE 336-99-4-0534
3	VEH	EL	JFS	05/JUN/02	13AUG02		
2	VEH	EL	JFS	06AUG02			ITEM #7 WAS 336-01-4-0549-01 OUTLET WAS ON EAST SIDE OF COLLECTOR
1	VEH	EL	JFS	05/JUN/02			REVISED PER CUSTOMER MARKED DRAWING DATED 26APR02 INLET WAS 2'-6" (762MM) OUTLET WAS 2'-8" (813MM)
							THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.

Bethlehem, Pa. 18017 USA

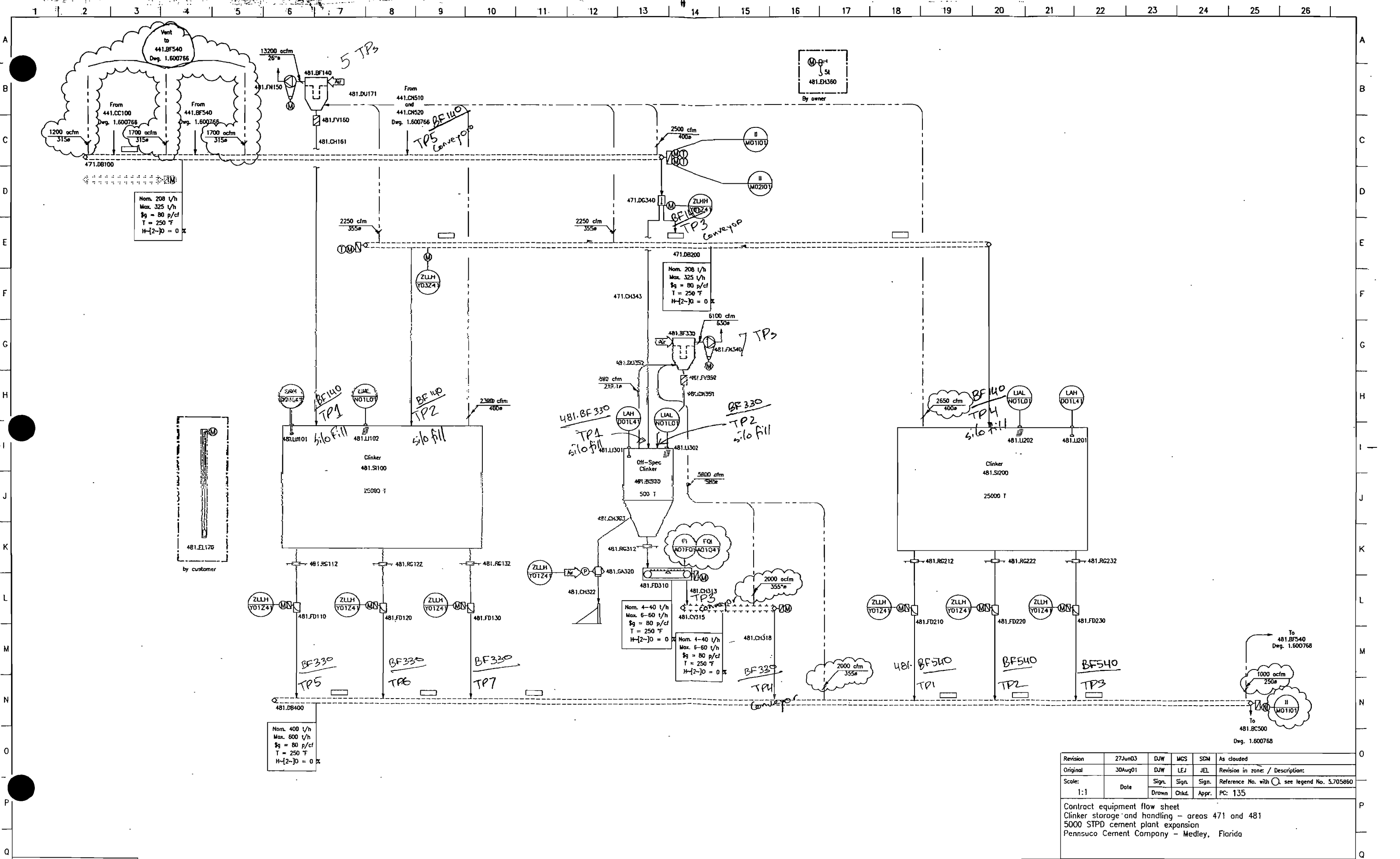
DR. DMR	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 196C10
APPR. JFS	JET PULSE COLLECTOR
DATE 28MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL.
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET

336-02-4-0135

3

1

OF 1



Revision	27Jun03	DJW	MGS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

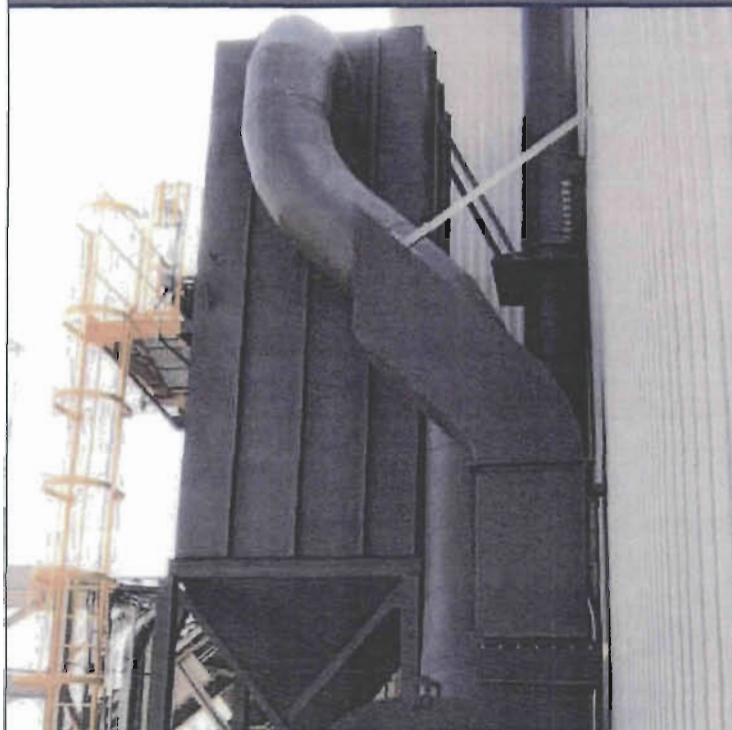
Contract equipment flow sheet
Clinker storage and handling - areas 471 and 481
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

CLINKER HANDLING AND STORAGE
481.BF330

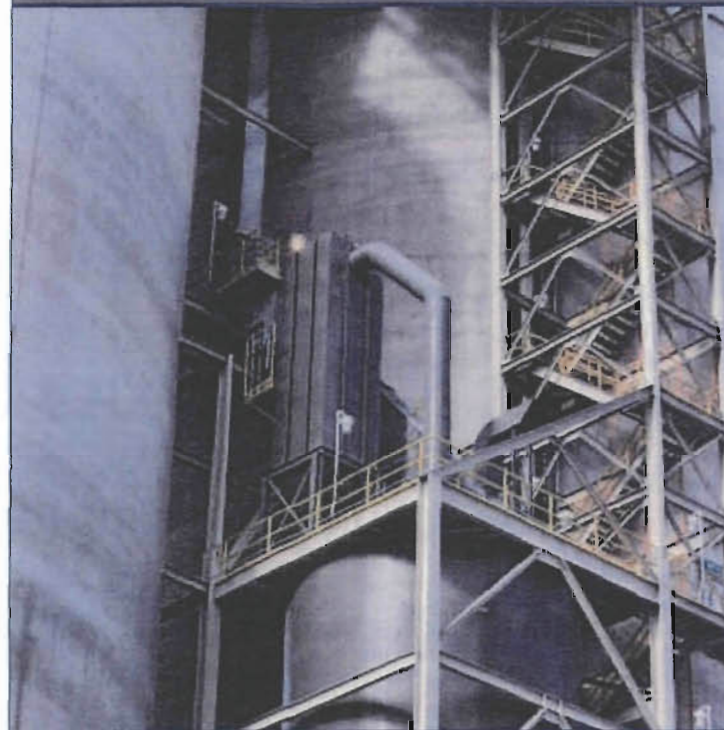


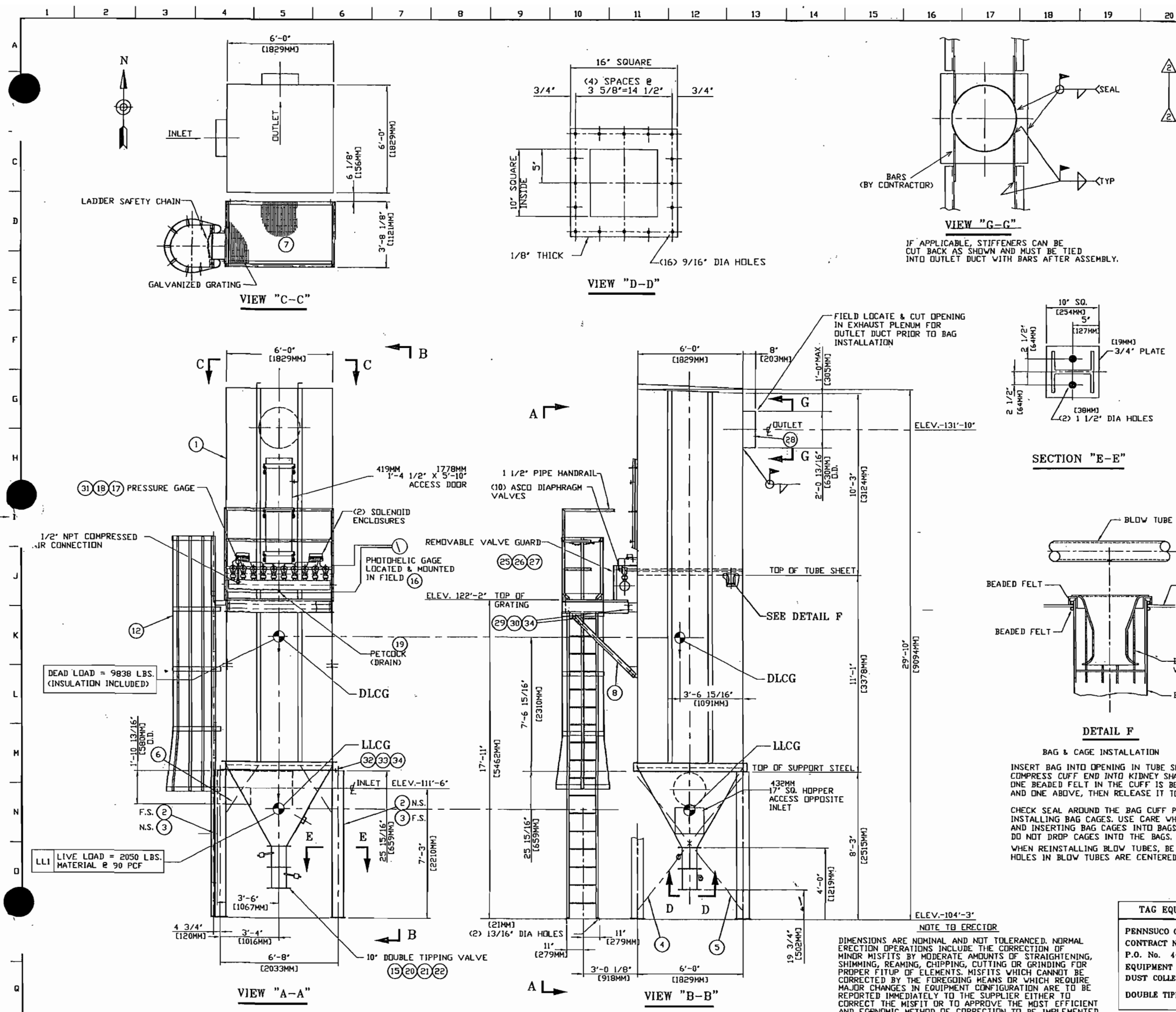
Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
027	Clinker Handling & Storage	481.BF140	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	196C10	196	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
12000	2552	4.7:1	185



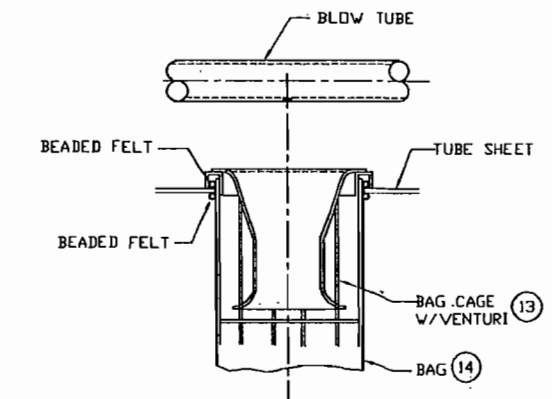
EU ID#	EU Source	BF Unit ID	
027	Clinker Handling & Storage	481.BF330	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
6100	1302	4.7:1	103





ITEM ID	DESCRIPTION	WT.	ITEM ID	DESCRIPTION	WT.
336-02-4-0131	JET PULSE COLLECTOR	8171# [3661Kg]	336-02-4-0131	JET PULSE COLLECTOR	8171# [3661Kg]
336-02-4-0171	HOUSING & HOPPER ASSEMBLY		336-02-4-0171	HOUSING & HOPPER ASSEMBLY	
336-02-4-0519	COLUMN		336-02-4-0519	COLUMN	
336-02-4-0519	COLUMN		336-02-4-0519	COLUMN	
336-02-4-0519	BRACE		336-02-4-0519	BRACE	
336-02-4-0519	BRACE		336-02-4-0519	BRACE	
336-02-4-0519	BRACE		336-02-4-0519	BRACE	
336-01-4-0540	PLATFORM WITH HANDRAIL		336-01-4-0540	PLATFORM WITH HANDRAIL	
336-01-2-0557	PLATFORM BRACE		336-01-2-0557	PLATFORM BRACE	
336-02-4-0703	LADDER WITH CAGE		336-02-4-0703	LADDER WITH CAGE	
325-85-4-1902	BAG CAGE & VENTURI ASSEMBLY		325-85-4-1902	BAG CAGE & VENTURI ASSEMBLY	
314-79-4-0001	BAG 5' DIA X 10'-0" LG SINGED POLYESTER		314-79-4-0001	BAG 5' DIA X 10'-0" LG SINGED POLYESTER	
303-73-2-0309	10' DOUBLE TIPPING VALVE		303-73-2-0309	10' DOUBLE TIPPING VALVE	
325-75-2-2003	PHOTOHELIC GAGE & PIPING ASSEMBLY		325-75-2-2003	PHOTOHELIC GAGE & PIPING ASSEMBLY	
500-01-0-6007	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI		500-01-0-6007	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	
000-00-5-3095	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23		000-00-5-3095	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
000-02-0-0176	COUPLING 1/4" NPT 150# M.I.		000-02-0-0176	COUPLING 1/4" NPT 150# M.I.	
040-00-4-0022	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL		040-00-4-0022	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	
040-00-4-0022	1' X 1/8" X 5'-0" LG. J-CALK NO. 7446 BURNSTINES		040-00-4-0022	1' X 1/8" X 5'-0" LG. J-CALK NO. 7446 BURNSTINES	
040-00-4-0022	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL		040-00-4-0022	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	
040-00-4-0022	HEX NUT 1/2" 13NC ZINC PL		040-00-4-0022	HEX NUT 1/2" 13NC ZINC PL	
040-00-4-0022	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL		040-00-4-0022	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	
040-00-4-0022	HEX NUT 3/8" 16NC ZINC PL		040-00-4-0022	HEX NUT 3/8" 16NC ZINC PL	
040-00-4-0022	VALVE COVER PLATE		040-00-4-0022	VALVE COVER PLATE	
040-00-4-0022	OUTLET DUCT		040-00-4-0022	OUTLET DUCT	
040-00-4-0022	HEX NUT 3/4" 10NC ASTM-A325		040-00-4-0022	HEX NUT 3/4" 10NC ASTM-A325	
040-00-4-0022	PLAIN FLAT WASHER 3/4" DIA ASTM-A325		040-00-4-0022	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	
040-00-4-0022	PIPE 1/4" SCH 40 X 9' LG T.B.E. ASTM-F436		040-00-4-0022	PIPE 1/4" SCH 40 X 9' LG T.B.E. ASTM-F436	
040-00-4-0022	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436		040-00-4-0022	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	
040-00-4-0022	HEAVY HEX NUT 3/4" 10NC ASTM-A363, GRADE C		040-00-4-0022	HEAVY HEX NUT 3/4" 10NC ASTM-A363, GRADE C	
040-00-4-0022	HEX HD BOLT 3/4" 10NC X 2' LG ASTM-A325		040-00-4-0022	HEX HD BOLT 3/4" 10NC X 2' LG ASTM-A325	
315-84-4-3019	WJ-10 TIMER (NEMA 4 ENCL.) NOT SHOWN		315-84-4-3019	WJ-10 TIMER (NEMA 4 ENCL.) NOT SHOWN	

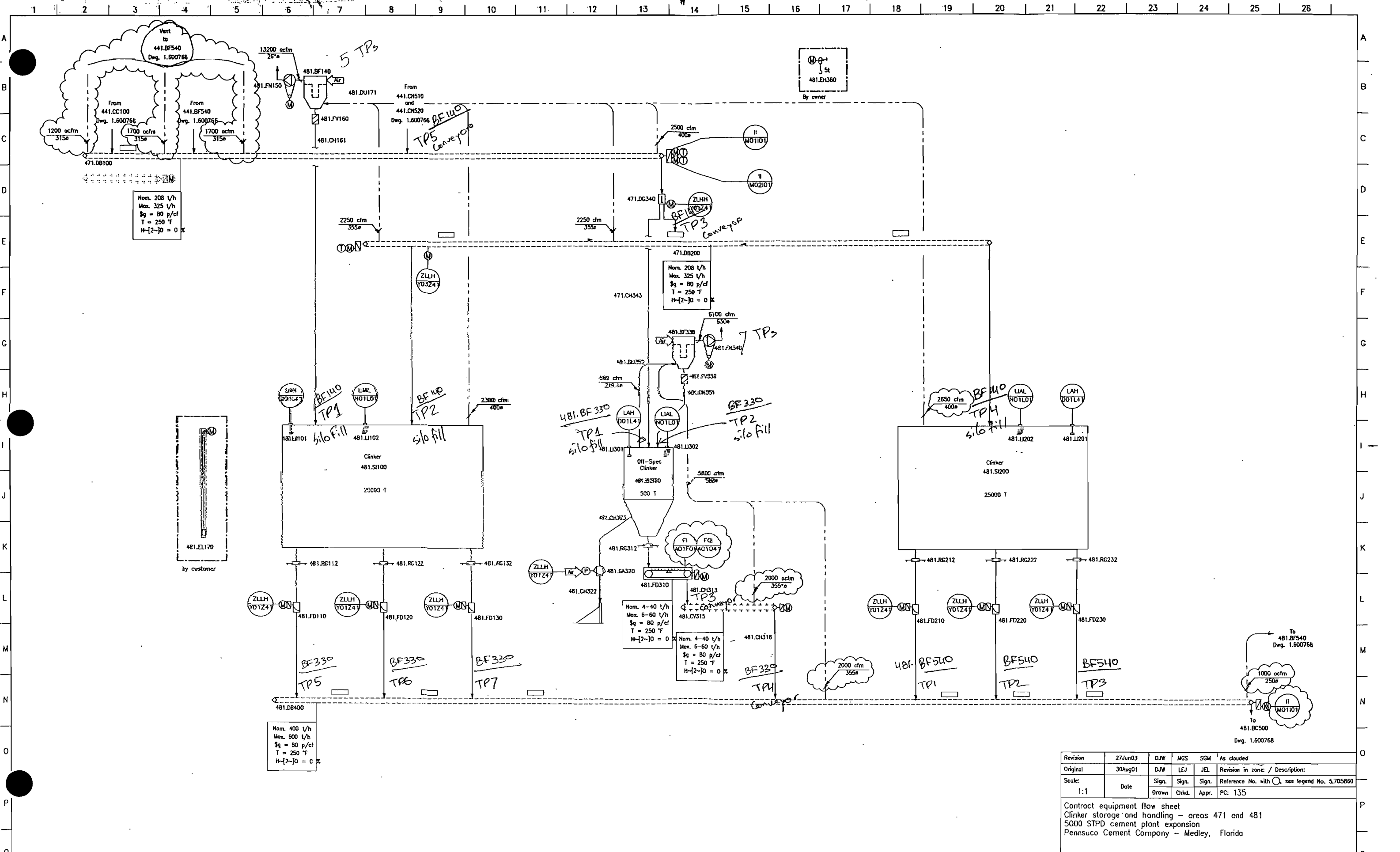
DESIGN DATA	
1. MODEL	-- 100C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 6100 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 100
9. TOTAL CLOTH AREA	-- 1302FT ²
10. AIR TO CLOTH RATIO	-- 4.7 : 1
11. COMPRESSED AIR REQUIREMENT	-- 60 SCFM @ 90-100 PSIG



TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117	EQUIPMENT No.s
DUST COLLECTOR - 481.FV330	DOUBLE TIPPING VALVE - 481.FV350

REV. NO.	1	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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FLS miljø Inc.	
Bethlehem, Pa. 18017 USA	
DR. DMR	GENERAL ARRANGEMENT
CHD. EL.	MODEL SIZE 100C10
APPR. JFS	JET PULSE COLLECTOR
DATE 27MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET
336-02-4-0131	2
1	1



Nom. 208 t/h
Max. 325 t/h
Sg = 80 p/cf
T = 250 °F
H-[2-]0 = 0 %

481.E1170
by customer

Nom. 400 t/h
Max. 600 t/h
Sg = 80 p/cf
T = 250 °F
H-[2-]0 = 0 %

Nom. 4-40 t/h
Max. 6-60 t/h
Sg = 80 p/cf
T = 250 °F
H-[2-]0 = 0 %

Nom. 4-40 t/h
Max. 6-60 t/h
Sg = 80 p/cf
T = 250 °F
H-[2-]0 = 0 %

Revision	27Jun03	DJW	MGS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Clinker storage and handling - areas 471 and 481
5000 STPD cement plant expansion
Pennsuco Cement Company - Medley, Florida

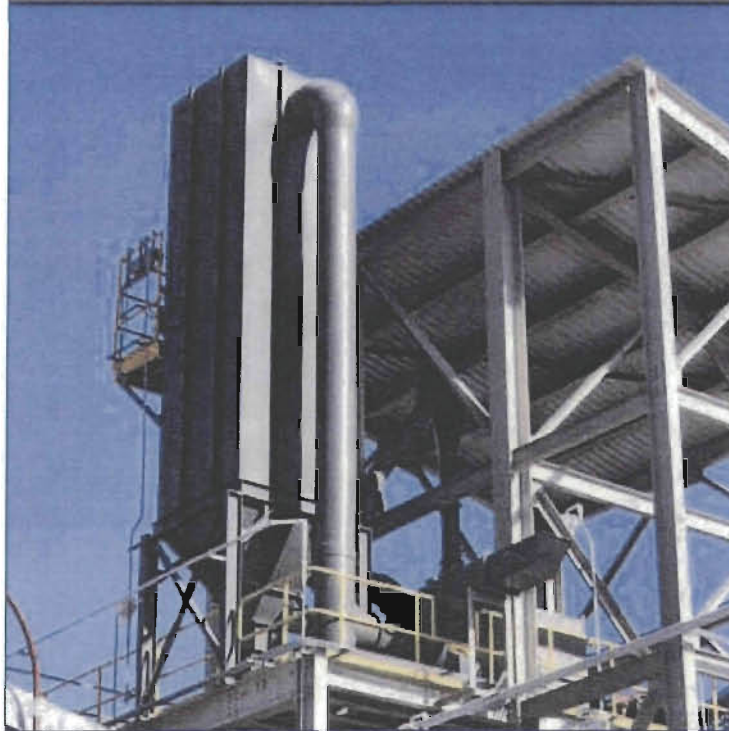
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CLINKER HANDLING AND STORAGE
481.BF540

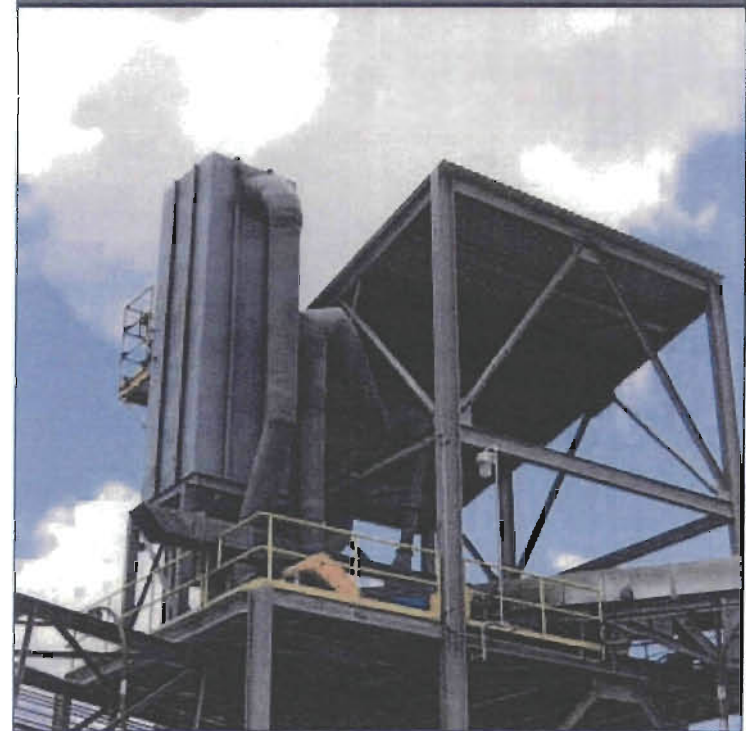


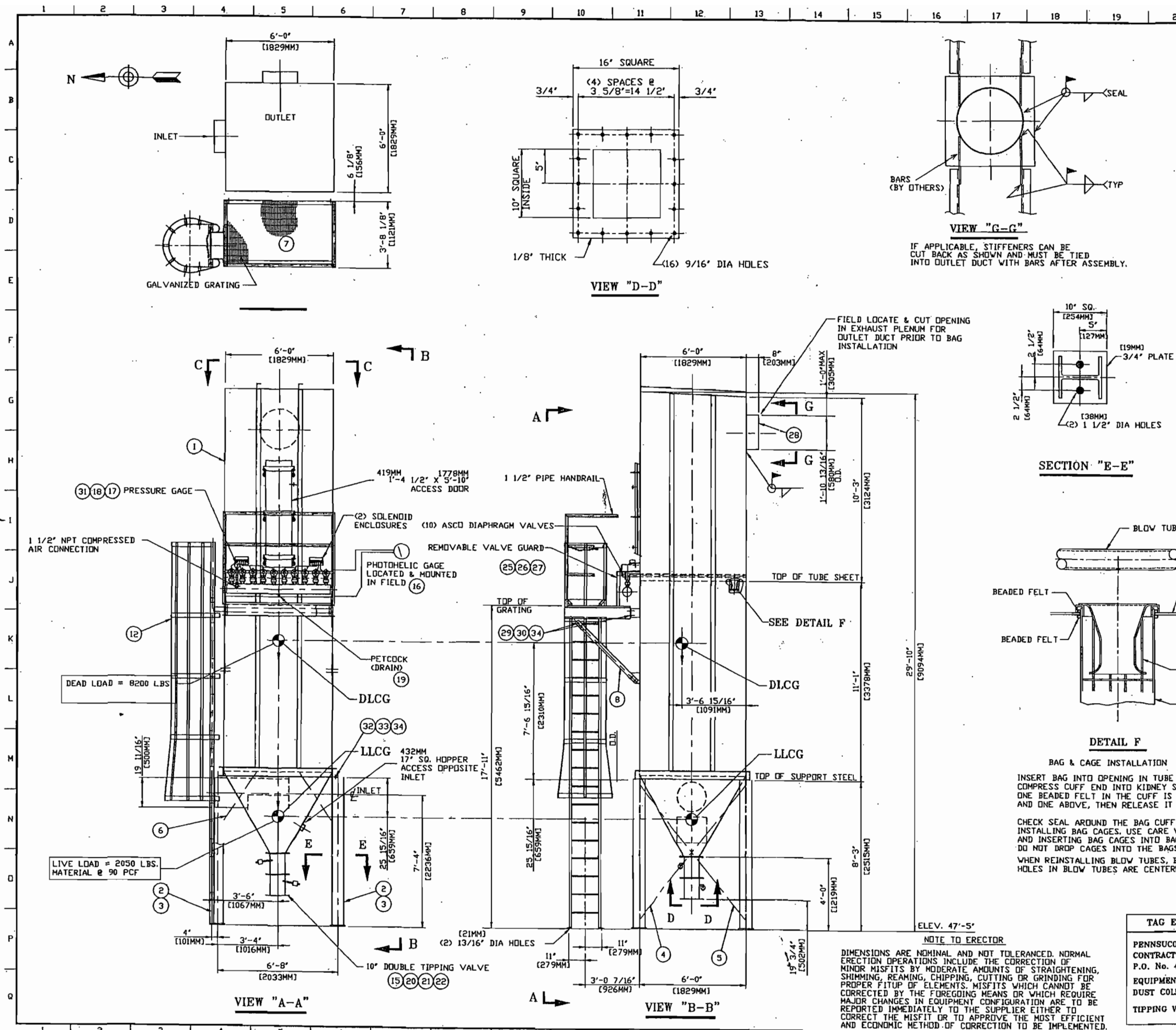
Pennsuco Cement

EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF540
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4700	1302	3.6:1	44



EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF640
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4700	1302	3.6:1	42





ITEM NO.	DESCRIPTION	ITEM ID (PART NUMBER)
1	JET PULSE COLLECTOR WT. 8071# [3661Kg]	336-02-4-0127 00
2	HOUSING & HOPPER ASSEMBLY	336-02-4-0198 00
3	COLUMN	336-02-4-0516 01
4	COLUMN	336-02-4-0516 02
5	BRACE	336-02-4-0516 03
6	BRACE	336-02-4-0516 04
7	BRACE	336-02-4-0516 05
8	PLATFORM WITH HANDRAIL	336-01-4-0540 01
9	PLATFORM BRACE	336-01-2-0557 01
10	LADDER	336-02-4-0703 01
11	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
12	BAG 5' DIA X 10'-0" LG SINGED POLYESTER	314-79-4-0001 54
13	10" DOUBLE TIPPING VALVE	303-73-2-0309 01
14	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
15	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
16	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
17	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
18	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	
19	1" X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176 51
20	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022 49
21	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
22	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
23	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
24	VALVE COVER PLATE	336-99-2-2011 01
25	OUTLET DUCT	336-02-3-1510 01
26	HEX NUT 3/4" 10NC ASTM-A325	
27	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
28	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
29	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	
30	HEAVY HEX NUT 3/4" 10NC ASTM-A363, GRADE C	
31	HEX HD BOLT 3/4" 10NC X 2" LG ASTM-A325	040-00-4-0022 26
32	VJ-10 TIMER (NEMA 4 ENCL.) NDT SHOWN	315-84-4-3019 00

DESIGN DATA	
1. MODEL	-- 100C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 4700 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 100
9. TOTAL CLOTH AREA	-- 1302FT ²
10. AIR TO CLOTH RATIO	-- 3.0 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG

REVISED PER CUSTOMER
 MARKED DRAWING DATED 13MAY02
 INLET WAS 22" OUTLET WAS 24"
 UNIT SIZE WAS 64C10

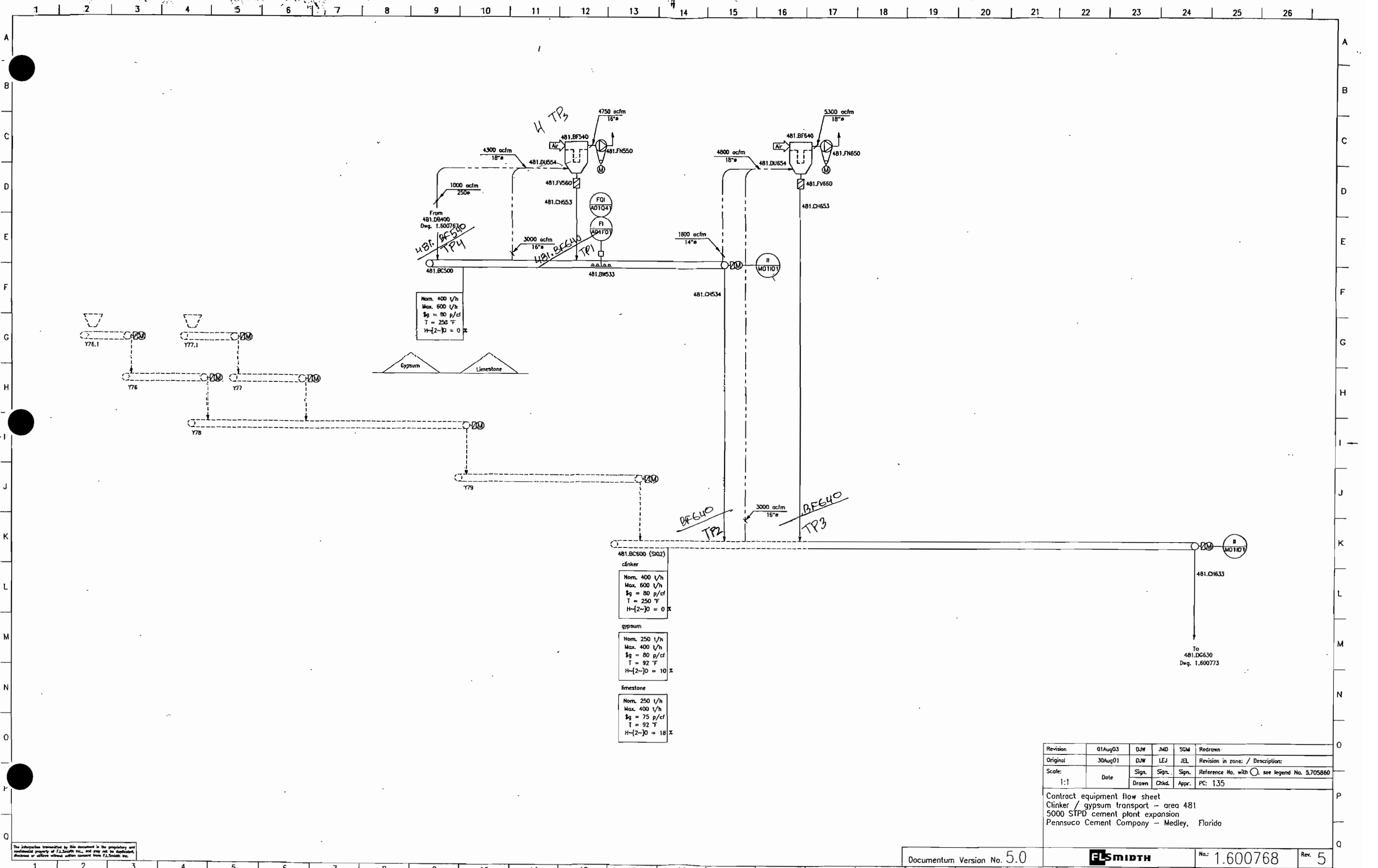
THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO NOR USED BY ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.
 Bethlehem, Pa. 18017 USA

TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
 CONTRACT No. 15-01-20133
 P.O. No. 4-01-20133-14117
 EQUIPMENT No.s
 DUST COLLECTOR - 481.BF640
 TIPPING VALVE - 481.FV680

DR. DMR	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 100C10
APPR. JFS	JET PULSE COLLECTOR
DATE 27MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL.
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET
336-02-4-0127	1 OF 1



Revision	01Aug03	DJM	JMD	SGM	Redrawn
Original	30Aug01	DJM	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Date	Sign.	Sign.	Sign.
			Drawn	Chkd.	Appr.
					PC: 135

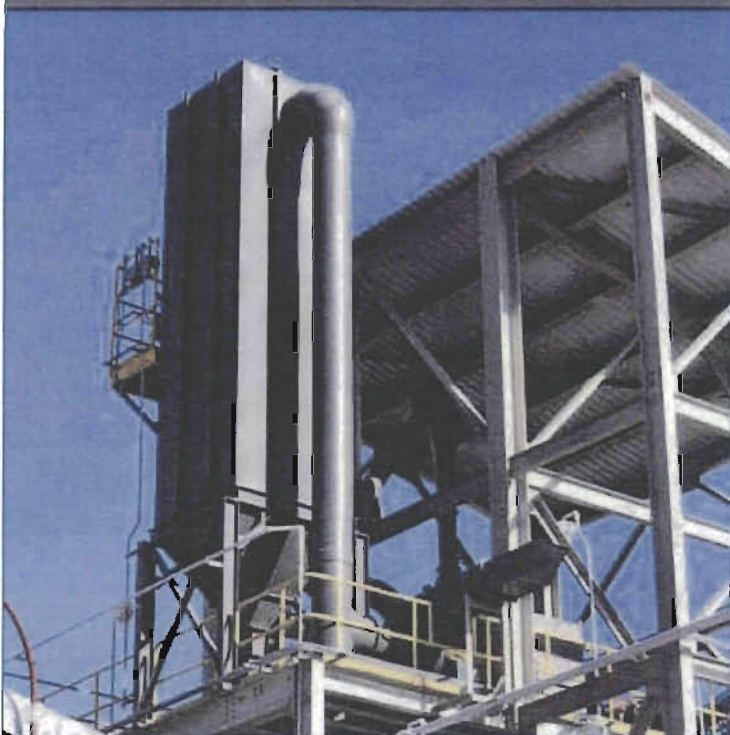
Contract equipment flow sheet
Clinker / gypsum transport - area 481
5000 STPD cement plant expansion
Pennsuca Cement Company - Medley, Florida

CLINKER HANDLING AND STORAGE
481.BF640

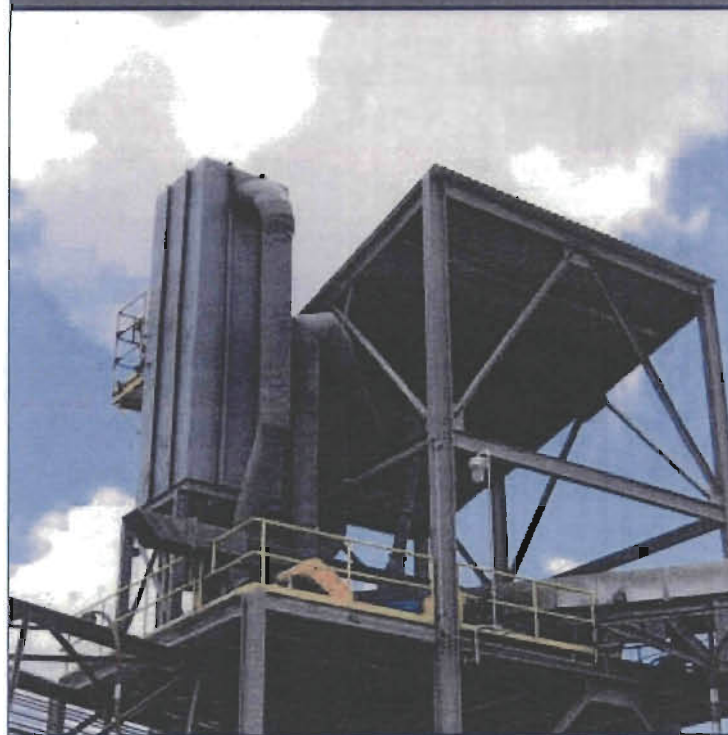


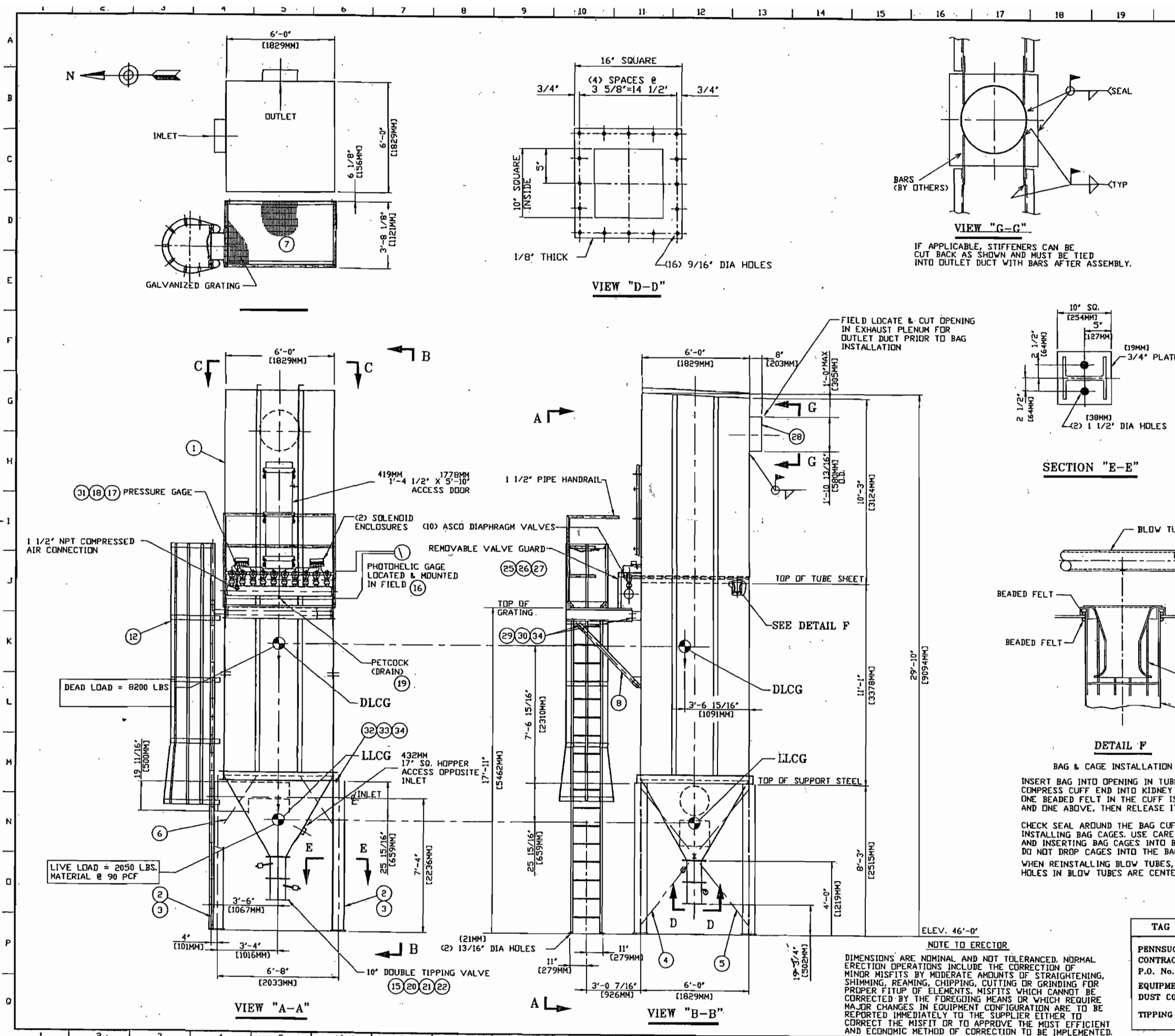
Pennsuco Cement

EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF540
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4700	1302	3.6:1	44



EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF640
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4700	1302	3.6:1	42





ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR WT. 8071# [3661KG]	336-02-4-0132 00
2	2	HOUSING & HOPPER ASSEMBLY	336-02-4-0198 00
3	2	COLUMN	336-02-4-0516 02
4	2	BRACE	336-02-4-0516 03
5	2	BRACE	336-02-4-0516 04
6	4	BRACE	336-02-4-0516 05
7	1	PLATFORM WITH HANDRAIL	336-01-4-0540 01
8	2	PLATFORM BRACE	336-01-2-0557 01
9			
10			
11			
12	1	LADDER	336-02-4-0703 01
13	100	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	100	BAG 5' DIA X 10'-0" LG SINGED POLYESTER	314-79-4-0001 54
15	1	10" DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	1	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
19	1	COUPLING 1/4" NPT 150# MJ.	000-00-5-3095 00
20	1	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL	
21	1	1" X 1/8" X 5'-0" LG. J-CAULK NO. 7446	BURNSTINES 000-02-0-0176 51
22	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG	ZINC PL 040-00-4-0022 49
23	16	HEX NUT 1/2" 13NC	ZINC PL 040-00-0-4420 00
24			
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG	ZINC PL 040-00-4-0022 16
26	2	HEX NUT 3/8" 16NC	ZINC PL 040-00-4-0022 28
27	1	VALVE COVER PLATE	336-99-2-2011 01
28	1	OUTLET DUCT	336-02-3-1510 01
29	48	HEX NUT 3/4" 10NC	ASTM-A325
30	48	PLAIN FLAT WASHER 3/4" DIA	ASTM-A325 040-00-4-0002 54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4" DIA.	ASTM-F436
33	8	HEAVY HEX NUT 3/4" 10NC	ASTM-A363, GRADE C
34	56	HEX HD BOLT 3/4" 10NC X 2" LG	ASTM-A325 040-00-4-0022 26
35	1	WJ-10 TIMER (NEMA 4 ENCL.)	NOT SHOWN 315-84-4-3019 00

DESIGN DATA	
1. MODEL	-- 100C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 4700 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 100
9. TOTAL CLOTH AREA	-- 1302FT ²
10. AIR TO CLOTH RATIO	-- 3.8 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG

REVISED PER CUSTOMER
MARKED DRAWING DATED 13MAY02
INLET WAS 22"
OUTLET WAS 24"

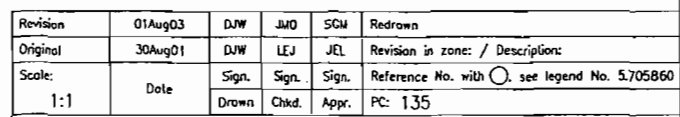
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FLS miljø Inc.
Bethlehem, Pa. 18017 USA

TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117
EQUIPMENT No. 8
DUST COLLECTOR - 481.BF640
TIPPING VALVE - 481.FV600

BR. DMR	CHD. EL	APPR. JFS	DATE 27MAR02	SCALE 3/8"=1'	REV.	SHEET
					336-02-4-0132	1



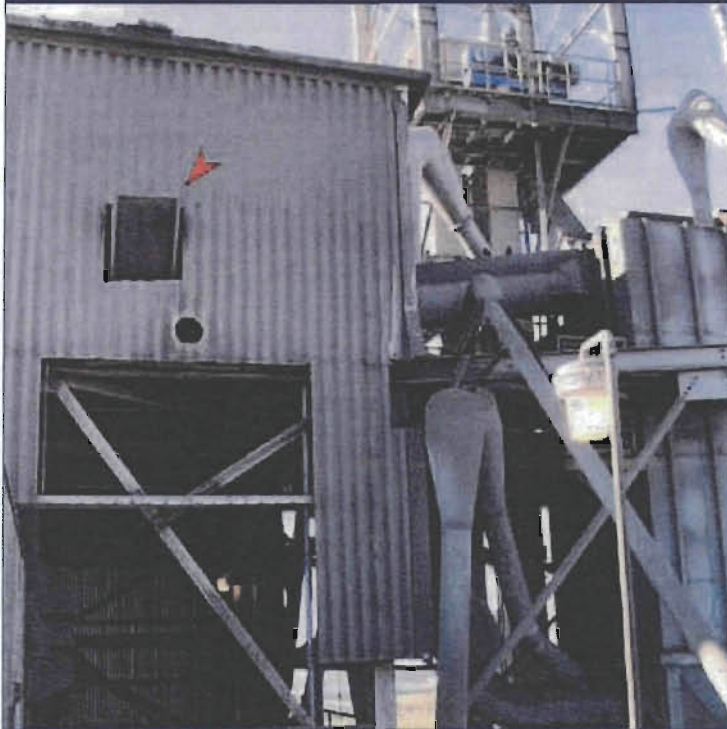
Rev. 5

CLINKER HANDLING AND STORAGE
481.BF730

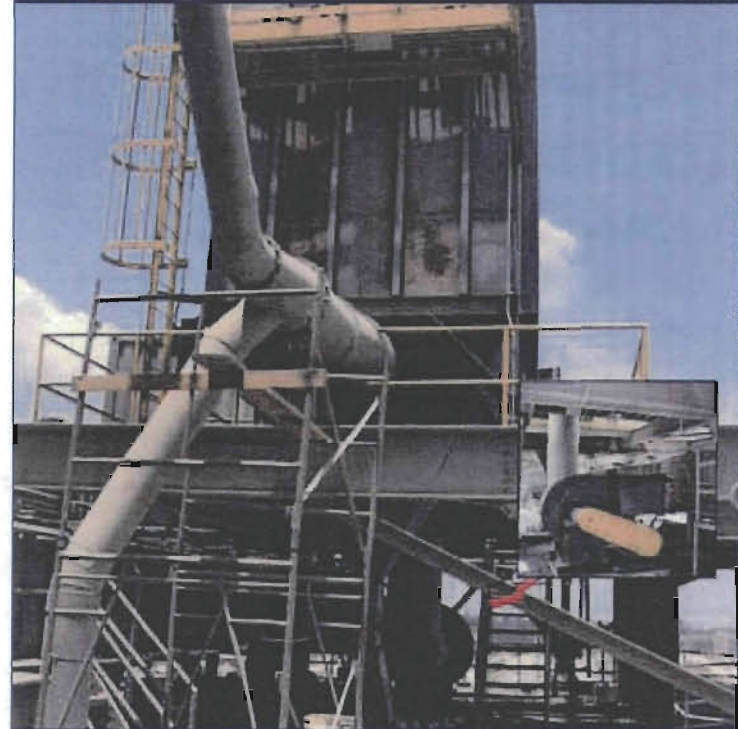


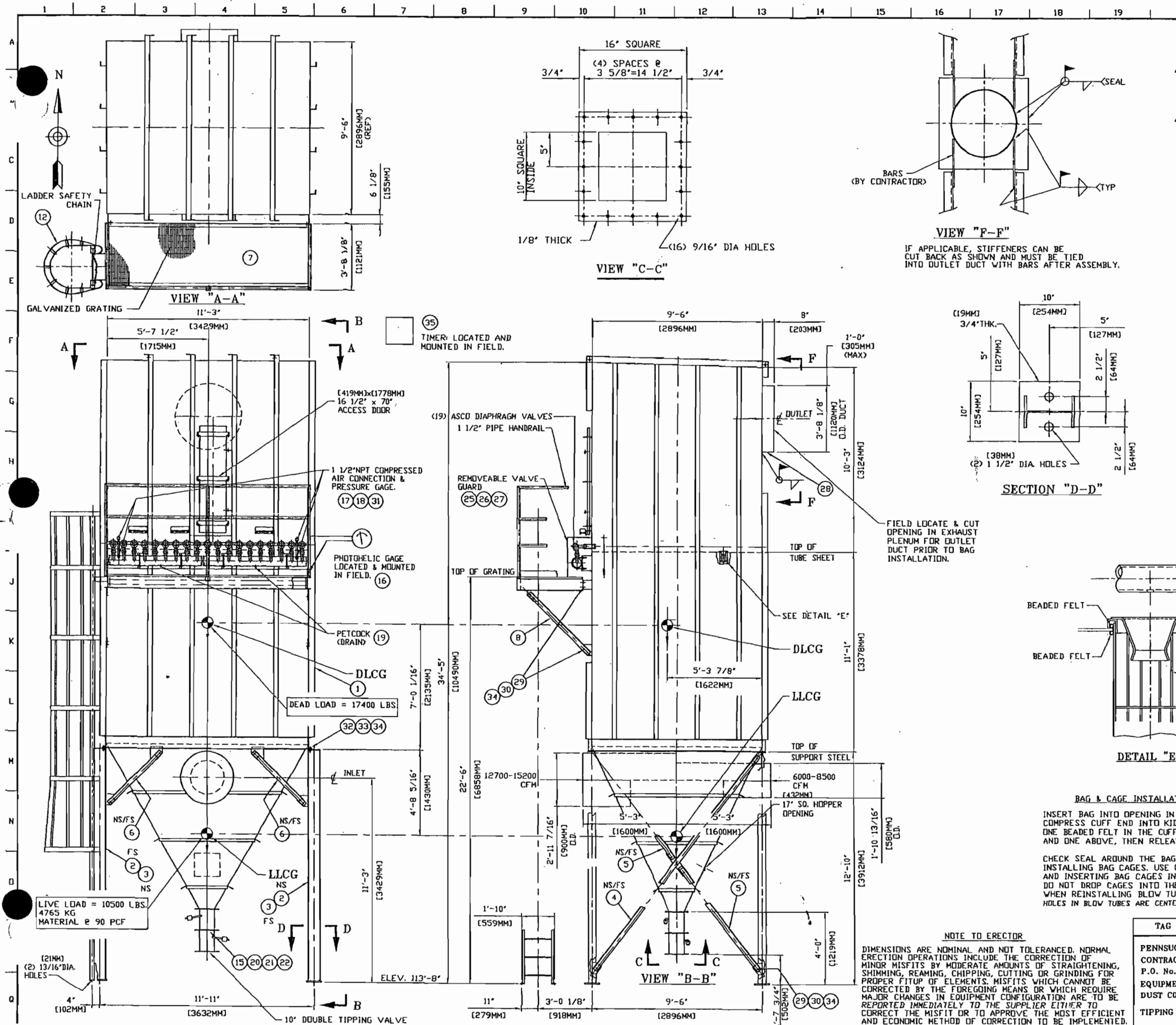
Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
027	Clinker Handling & Storage	481.BF730	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	304C10	304	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
18700	3958	4.7:1	113

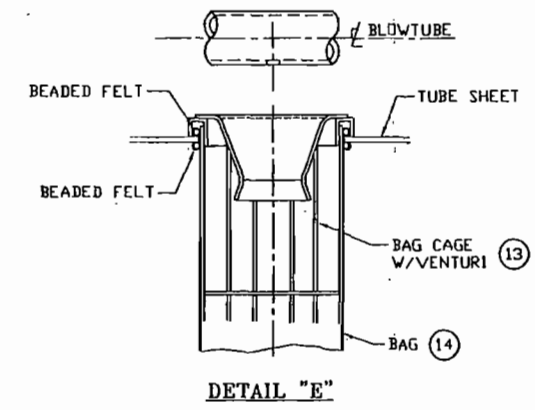
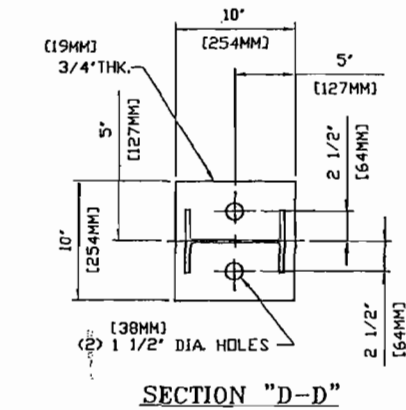


EU ID#	EU Source	BF Unit ID	
027	Clinker Handling & Storage	481.BF930	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	304C10	304	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
15000	3958	3.8:1	113





ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR WT.17275 # [7836 Kg]	336-02-4-0138 00
2	2	HOUSING & HOPPER ASSEMBLY	336-02-4-0200 00
3	2	COLUMN	336-02-4-0523 01
4	2	BRACE	336-02-4-0523 03
5	4	BRACE	336-02-4-0523 04
6	4	BRACE	336-02-4-0523 05
7	1	PLATFORM WITH HANDRAIL	336-01-4-0555 01
8	2	PLATFORM BRACE	336-01-2-0557 01
9			
10			
11			
12	1	LADDER WITH SAFETY CAGE	336-01-4-0745 01
13	304	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	304	BAG 5' DIA X 10'-0" LG SINGED POLYESTER	314-79-4-0001 54
15	1	10" DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	2	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	2	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
19	2	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL	
20	1	1" X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176 51
21	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022 49
22	16	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
23			
24			
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
26	2	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
27	1	VALVE COVER PLATE	336-99-2-2011 01
28	1	OUTLET DUCT	336-02-3-1523 01
29	54	HEX NUT 3/4" 10NC ASTM-A325	
30	54	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	
33	8	HEAVY HEX NUT 3/4" 10NC ASTM-A563, GRADE C	
34	62	HEX HD BOLT 3/4" 10NC X 2 1/2" LG ASTM-A325	
35	1	WJ-20 TIMER, NEMA 4, 115V/1PH/60HZ	315-84-4-3020 00



BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS. WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

NOTE TO ERECTOR

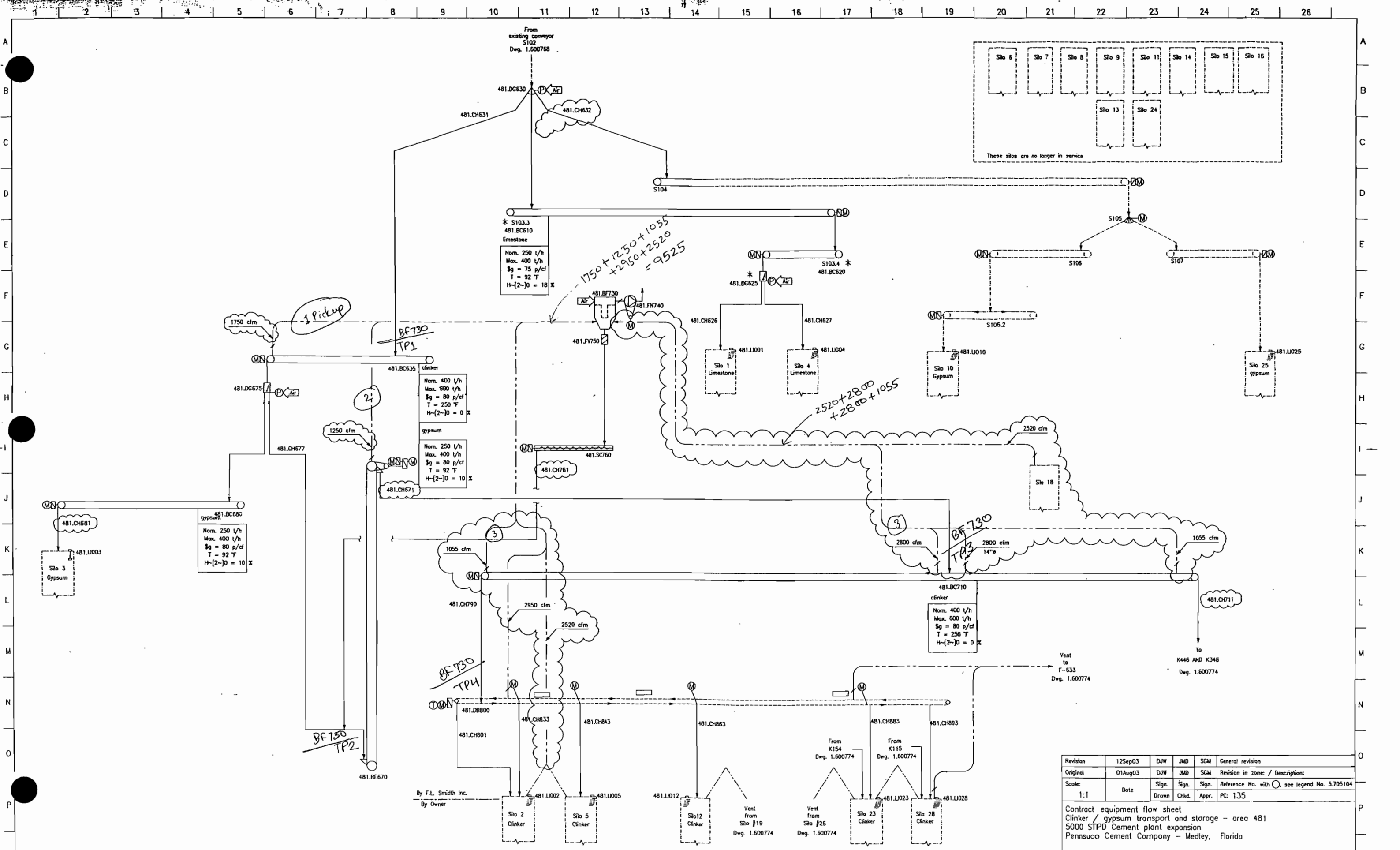
DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FIT OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	
CONTRACT No. - 15-01-20133	
P.O. No. 4-01-20133-14117	
EQUIPMENT No.s	
DUST COLLECTOR - 481.BF730	
TIPPING VALVE - 481.FV750	

DESIGN DATA	
1. MODEL	-- 304C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 18700 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5' DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 304
9. TOTAL CLOTH AREA	-- 3958 FT ²
10. AIR TO CLOTH RATIO	-- 4.7 : 1
11. COMPRESSED AIR CONSUMPTION	-- 120 SCFM @ 90-100 PSIG

2	VEH	EL	JFS	DATE	ZONE	REVISION	ITEM # 2 THRU 6 WERE 336-00-4-0515
1	VEH	EL	JFS	DATE	ZONE	REVISION	REVISED PER CUSTOMER MARKED DRAWING DATED 13MAY02 WAS SINGLE INLET 36" OUTLET WAS 38"
REV. NO.	DR.	CHK.	APP.	DATE	ZONE	REVISION	THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.	
Bethlehem, Pa. 18017 USA	
DR. DMR	GENERAL ARRANGEMENT
CHK. EL	MODEL SIZE 304C10
APP. JFS	JET PULSE COLLECTOR
DATE 2APR02	PENNSUCO CEMENT COMPANY. MEDLEY, FL.
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET
	336-02-4-0138 2
	NO. 1 OF 1

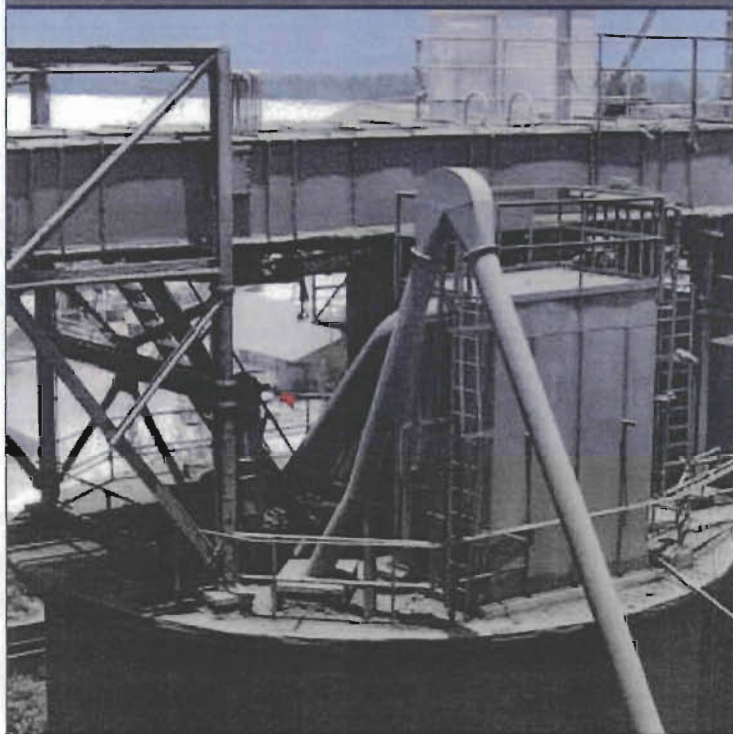


CLINKER HANDLING AND STORAGE
F-633



Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
027	Clinker Handling & Storage	K-633	
Control Equipment Make	Model #	# of Bags	
Norblo	HE-66	22	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
1500	1040	1.4:1	130



EU ID#	EU Source	BF Unit ID	
028	Pyroprocessing	331.BF200	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	2M5C690D16(16)	6900	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
605000	173397	3.0:1	420



Mohammad, Sal

From: Robertson Charles [CRobertson@titanamerica.com]
Sent: Friday, February 03, 2006 9:07 AM
To: Mohammad, Sal
Subject: FW: F-633 Information

Sal:

This is the most recent and accurate information regarding F-633. The original unit burned up and this is the replacement. There was a typographical error that started calling the unit K-633. F-633 is correct.

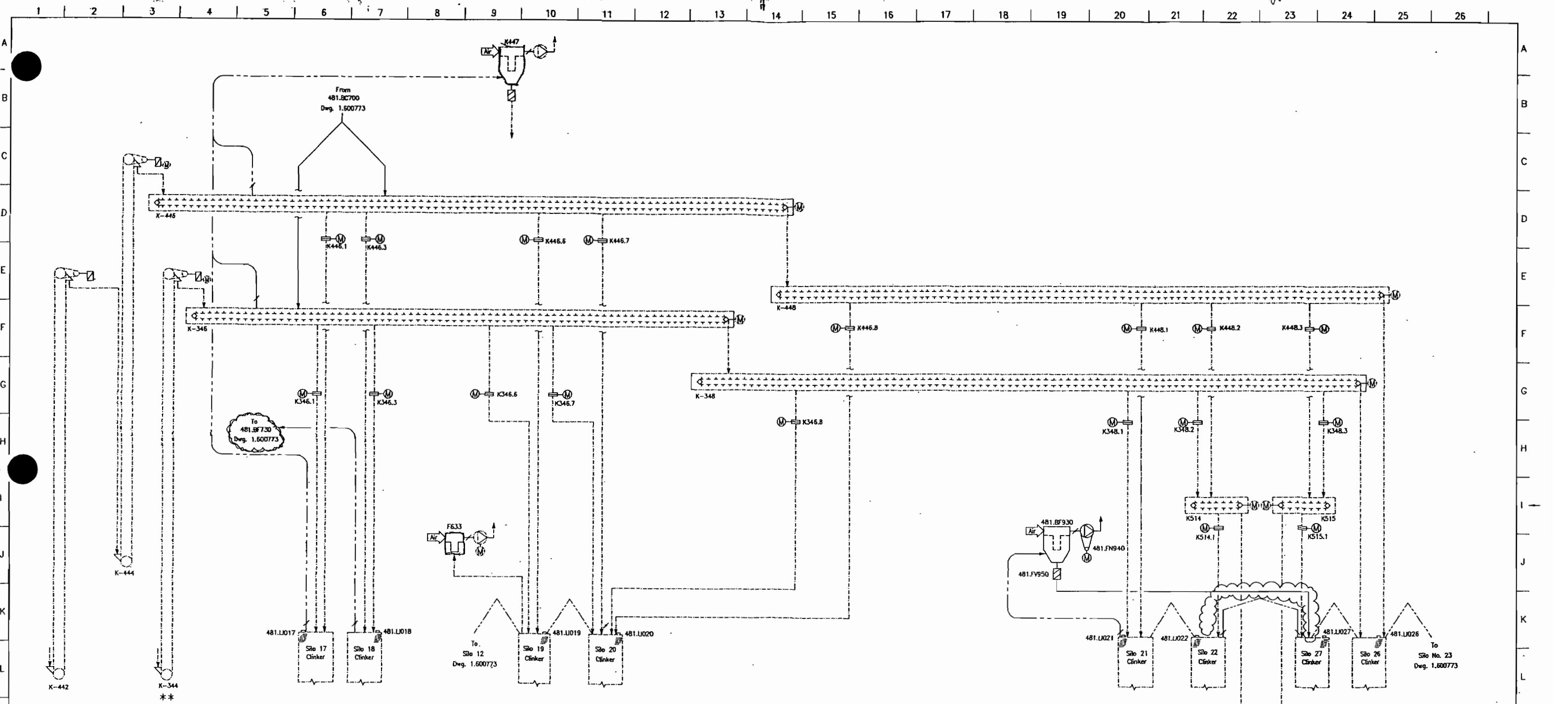
Thanks,

Charlie

-----Original Message-----

From: Jenkins, John M (GE Infra, Energy) [mailto:john2.jenkins@ge.com]
Sent: Thursday, February 02, 2006 9:20 AM
To: Robertson Charles
Subject:

F633
Model R-08-96-120 by BHA
Acfm 6000
96 bags
3.8:1 air to cloth
1570 sq ft cloth
6.25" x 120 Snapband top disc bottom
Pe072 16oz duo density polyester felt, singed



Silo usage table					
Silo no.	Material	Silo no.	Material	Silo no.	Material
#1	Limestone	#11	Not used	#21	Clinker
#2	Clinker	#12	Clinker	#22	Clinker
#3	Gypsum	#13	Not used	#23	Clinker
#4	Limestone	#14	Not used	#24	Not used
#5	Clinker	#15	Not used	#25	Gypsum
#6	Not used	#16	Not used	#26	Clinker
#7	Not used	#17	Clinker	#27	Clinker
#8	Not used	#18	Clinker	#28	Clinker
#9	Not used	#19	Clinker		
#10	Gypsum	#20	Clinker		

Revision	12Sep03	DJW	JMD	SGM	General revision
Original	01Aug03	DJW	JMD	SGM	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705104
1:1		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
 Clinker / gypsum transport and storage - area 481
 5000 STPD cement plant expansion
 Pennsco Cement Co. - Medley, Florida

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** Remove from service after new system is in operation.

CLINKER HANDLING AND STORAGE
481.BF930

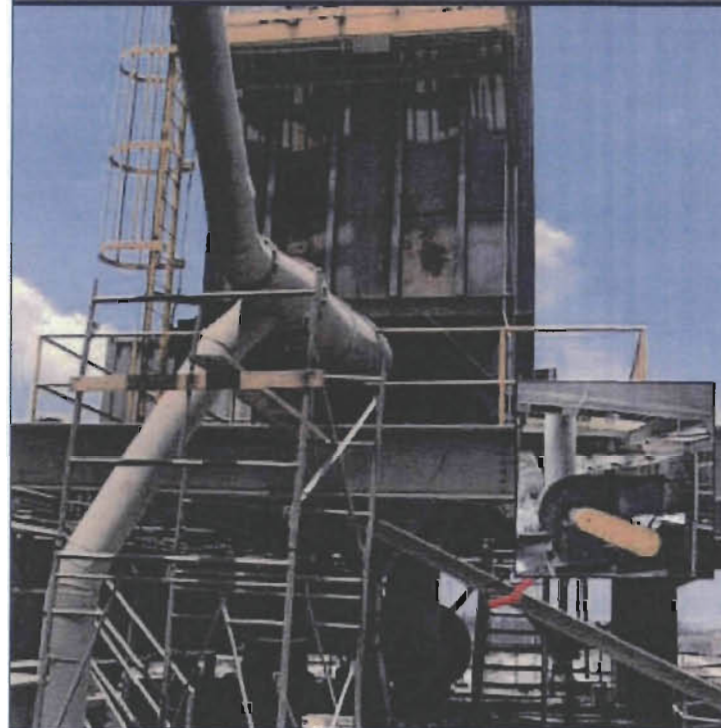


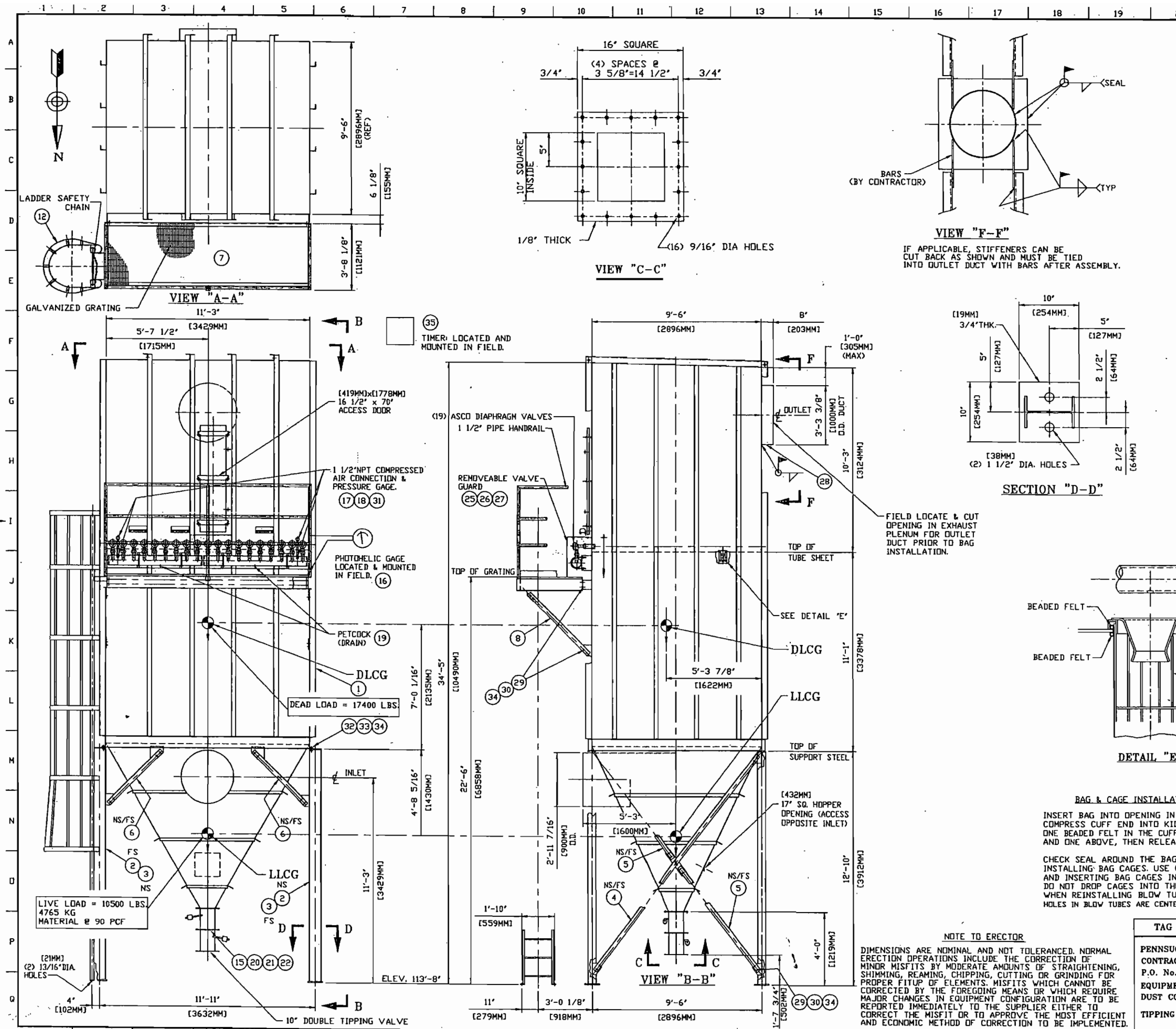
Pennsuco Cement

EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF730
Control Equipment Make		Model #	# of Bags
FLS Airtech		304C10	304
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
18700	3958	4.7:1	113



EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		481.BF930
Control Equipment Make		Model #	# of Bags
FLS Airtech		304C10	304
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
15000	3958	3.8:1	113

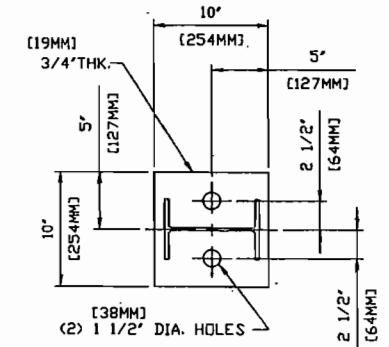




ITEM ID (PART NUMBER)	DESCRIPTION	QTY.	UNIT
336-02-4-0139 00	JET PULSE COLLECTOR WT. 17275 # (7836 Kg)		
336-02-4-0202 00	HOUSING & HOPPER ASSEMBLY	1	
336-00-4-0515 01	COLUMN	2	
336-00-4-0515 02	COLUMN	2	
336-00-4-0515 03	BRACE	4	
336-00-4-0515 04	BRACE	4	
336-00-4-0515 05	BRACE	4	
336-01-4-0555 01	PLATFORM WITH HANDRAIL	1	
336-01-2-0557 01	PLATFORM BRACE	2	
336-01-4-0745 01	LADDER WITH SAFETY CAGE	1	
325-85-4-1902 01	BAG CAGE & VENTURI ASSEMBLY	304	
314-79-4-0001 54	BAG 5" DIA X 10'-0" LG SINGED POLYESTER	304	
303-73-2-0309 01	10" DOUBLE TIPPING VALVE	1	
325-75-2-2003 04	PHOTOHELIC GAGE & PIPING ASSEMBLY	1	
500-01-0-6007 00	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	2	
000-00-5-3095 00	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	2	
000-02-0-0176 51	COUPLING 1/4" NPT 150# M.I.	2	
040-00-4-0022 49	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL	2	
040-00-4-0022 16	1" X 1/8" X 5'-0" LG. J-Caulk NO. 7446 BURNSTINES	16	
040-00-4-0022 28	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	16	
040-00-0-4420 00	HEX NUT 1/2" 13NC ZINC PL	16	
040-00-4-0022 16	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	2	
040-00-4-0022 28	HEX NUT 3/8" 16NC ZINC PL	2	
336-99-2-2011 01	VALVE COVER PLATE	1	
336-02-3-1525 01	OUTLET DUCT	1	
040-00-4-0002 54	HEX NUT 3/4" 10NC ASTM-A325	54	
	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	54	
	PIPE 1/4" SCH 40 X 9' LG T.B.E.	1	
	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	8	
	HEAVY HEX NUT 3/4" 10NC ASTM-A563, GRADE C	8	
	HEX HD BOLT 3/4" 10NC X 2 1/2" LG ASTM-A325	62	
315-84-4-3020 00	WJ-20 TIMER, NEMA 4, 115V/1PH/60HZ	1	

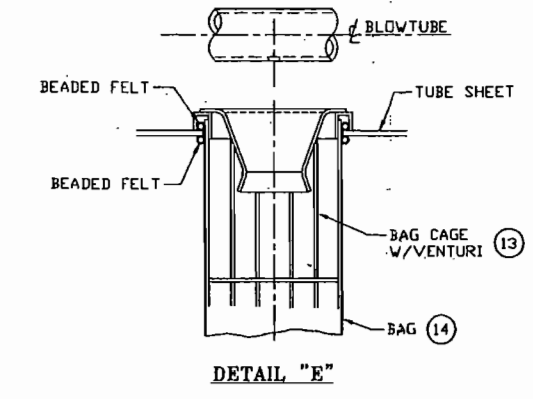
VIEW "F-F"

IF APPLICABLE, STIFFENERS CAN BE CUT BACK AS SHOWN AND MUST BE TIED INTO OUTLET DUCT WITH BARS AFTER ASSEMBLY.



SECTION "D-D"

FIELD LOCATE & CUT OPENING IN EXHAUST PLENUM FOR OUTLET DUCT PRIOR TO BAG INSTALLATION.



DETAIL "E"

BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS. WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

NOTE TO ERECTOR

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117	EQUIPMENT No. 481.BF930
DUST COLLECTOR - 481.BF930	TIPPING VALVE - 481.FV950

DESIGN DATA	
1. MODEL	-- 304C10
2. APPLICATION	-- CLINKER
3. GAS VOLUME	-- 15000 ACFM
4. OPERATING TEMPERATURE	-- 250° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 304
9. TOTAL CLOTH AREA	-- 3958 FT ²
10. AIR TO CLOTH RATIO	-- 3.8 : 1
11. COMPRESSED AIR CONSUMPTION	-- 120 SCFM @ 90-100 PSIG

REVISED PER CUSTOMER
MARKED DRAWING DATED 13MAY02
INLET WAS 36"
OUTLET WAS 38"

THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.
Bethlehem, Pa. 18017 USA

DR. DMR	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 304C10
APPR. JFS	JET PULSE COLLECTOR
DATE 2APR02	PENNSUCO CEMENT COMPANY MEDLEY, FL
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET

336-02-4-0139 1 NO. 1 OF 1

CLINKER HANDLING AND STORAGE
K447

Table TA-4.3. Control Equipment Information for Clinker Handling, Storage, Emission Unit 09. Tarmac America, Pennsuco

Source ID	Baghouse ID	Manufacturer	Model No.	Number of Bags	Flow Rate (acfm)	Cloth Area (ft ²)	Air to Cloth Ratio
Handling Line 1	K-247	Norblo	120 AMST	120	3000	1650	1.8
Handling Line 2	K-147	Norblo	120 AMST	120	3000	1650	1.8
Handling Line 3	K-347	Norblo	11-BE-88	88	5000	1100	4.5
Handling Line 3	K-521	Norfelt	HE-2-6	32	1500	500	3.0
Clinker Silo 4, 18	K-522	Norfelt	HE-2-6	32	1500	500	3.0
Clinker Silo 11, 19, 20	K-447	Norblo	11-BE-88	88	5000	1100	4.5
Clinker Silo 21-23, 26-28	K-633	Norblo	HE-66	66	1500	1040	1.4

1996 K-447
into

Table TA-E3. Emission Point Detail Information for Clinker Handling and Storage, Emission Unit 09, Tarmac America, Pennsuco

Source	Service	Baghouse ID	Estimated		Exit Temp. (F)	Flowrate (acfm)
			Stack Ht (ft)	Stack Diam (ft)		
Handling Line 1	K1/K2	K-247	147	1	77	3,000
Handling Line 2	K1/K2	K-147	147	1	77	3,000
Handling Line 3	K3	K-347	160	1	77	5,000
Handling Line 3	K3	K-447	160	1	77	5,000
Clinker Silo 4, 18	NA	K-521	130	1	77	1,500
Clinker Silo 11,19,20	NA	K-522	130	1	77	1,500
Clinker Silo 21-23, 26-28	NA	K-633	130	1	77	1,500

USI COLLECTOR

FROM DATA SHEET

	CFM	REF DWG	L.S.	EQUIVALENT NORFELT TYPE
K 347	5,000	MGG-107	FP-D-277	11 BE 88
		MCC-105	FP-D-282	"

K 447 " " "

MOTOR - 20 H.P. 1800 R.P.M. 256 T TEFC 230/460
SHAFT $1\frac{5}{8}$ " DIAM

BELTS ~~3B60~~ 3B62

FAN SHEAVE - 6.6 PITCH DIA.

MOTOR SHEAVE - 8.6 PITCH DIA

ACTUAL CENTER DISTANCE
18.90"
MIN. - 18.88"
MAX - 20.75"

FROM WOODS CATALOG

6.2
3B62
FOR ~~3B60~~ WITH 6.6 PITCH DIA - SHEAVE
MOTOR SHAFT $1\frac{5}{8}$ " * { 3 GROOVE
TYPE AB WITH
2012 BUSHING

3B62
FOR ~~3B60~~ WITH 8.6 PITCH DIA - { 3 GROOVE
FAN SHAFT $1\frac{15}{16}$ " * { TYPE AB WITH
2517 BUSHING

* DUAL-DUTY TAPER LOCK SHEAVES -

Belts
(3) B68

R. DIAZ
8/28/78

CUSTOMER
Buell Norblo Div. F. Virotech Corp.GENERAL ORDER NO.
GO CLY-1917

ENGINEER

DATE
4-3-73PROJECT
Maule Industries, Miami, FloridaCUSTOMER'S ORDER NO.
72-2484SYSTEM MARKING & LOCATION
Items K 447 and K 347

IMPORTANT: If Release of this order to manufacture depends upon drawing approval, PROMPT WRITTEN NOTICE OF APPROVAL to Westinghouse is necessary. Delays in approval will extend delivery. Westinghouse will furnish only apparatus and accessories as indicated below. The drawing reference certified is suitable for installation purposes.

TYPE & SIZE	CLASS	WIDTH	ARR.	ROTA	DISCHG.	BEARINGS	DIMENSION SHEET REF.
413 M			9L	CW	UB		1151-8, Sh. 1

QUANTITY
2

Flanged inlet

Flanged outlet

F Access door @ 3 o'clock

N Drain

D Mount motor

S Shaft cover for bearings

C Two coat paint finish

R Red zinc chromate iron oxide primer inside and outside.

I Finish coat of gray enamel -- outside only.

P DO NOT USE THIS SPACE

APPLICATION

Used in conjunction with bag collector.

C.F.M.	STATIC PRESSURE	R.P.M.	B.H.P.
5,000	12"	2290	17.1

OUTLET VELOCITY	MIN. CENTER DISTANCE	SHAFT DIAMETER	KEYWAY DIM.
5734			

H.P.	R.P.M. (FULL LOAD)	TYPE	FRAME	SLIDE BASE	
20	1800	TEFC	256 T		1581-1

VOLTS - CYCLES - PHASE	SHAFT DIAMETER	KEYWAY DIM.
230/460 60 3		

OTHER

DO NOT USE THIS SPACE

CONSTANT	VARIABLE	SERVICE FACTOR	FAN SHEAVE AND HUB STYLE	
X		1.4	6.6' fan pitch dia.	1580-1

BELTS - NO. AND SIZE	ACTUAL CENTER DISTANCE	MOTOR SHEAVE AND HUB STYLE
3B60	18.90"	8.6' motor pitch dia.

SPECIAL CONDITIONS

TYPE	RUBBER	SPRING	MOTOR POSITION*	
				1580-1

SPECIAL CONDITIONS

1C 2 Totally enclosed belt guards.

CORRESPONDENT

Marshal Rudman

CUSTOMER

RECEIVED
APR 25 1973NORTHERN BLOWER DIVISION
CLEVELAND, OHIOC
E
R
T
I
F
I
C
A
T
I
O
N

K-347-K-447 FAN.

CAP: 5000 CFM.

WESTINGHOUSE INDUSTRIAL FAN.

SIZE: 413 M, ROT: CW DISCH. UG.

STYLE: TAY-1281-1 & TAY-1285-1

BEARINGS:

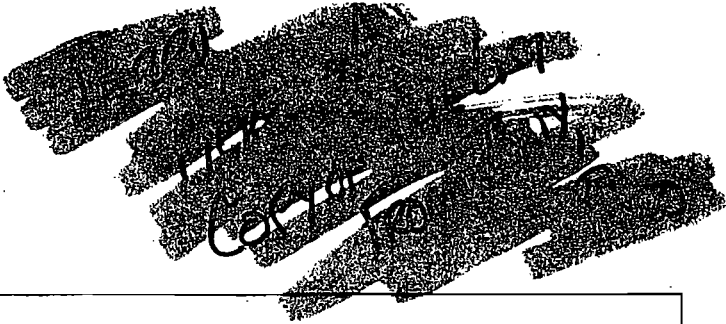
FAFNIR PILLOW BLOCK RKAH

T-22214 $1\frac{5}{16}$ " ϕ .

COLLAR: 01115-K.

DUST COLLECTORS.

FINISH MILL #1
F113



EU ID	010	Finish Mill #1					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-113 Mikropul 168S 168F-10-20 168 11800 10,500 2100 106

F-130 Norblo ~~converted to BHA~~ 468 AMT 468 200 12000 16480 1973927 108

EU ID	011	Finish Mill #2 To be SHUT DOWN?					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-213 Mikropul 168S 168F-10-20 168 11800 10,500 2100 106

F-230 Norblo ~~converted to BHA~~ 468 AMT 468 200 12000 16480 6450 3927 108

EU ID	012	Finish Mill #3					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-313 Mikropul 196S-10-20 196 8000 2300 110

ORIGINAL F-332 ~~deleted~~ F-332 Norblo ~~BHA~~ 702 AMT 702 20000 9477 110

F-332 Norblo ~~BHA~~ 300 AMT 300 336 13500 25200 5265 597 110

EU ID	013	Finish Mill #4					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

F-430 Fuller 6 zone #96 576 30000 ? 6028 150

F-432 Fuller 5 zone #48 240 17000 ? 2510 150

F-228 230 Fuller 6 zone #96 1680 20000 117000 6028 31688 150

EU ID	014	Cement Storage 2MB40512(6)					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

? F-511 Fuller ~~BHA~~ 2 zone #78 156 18000 1625 200

? F-512 Norblo ~~BHA~~ 156 AMT 156 10000 2142 200

F-513 Mikropul 121S-10-20B 121 5000 1424 200

F-514 Mikropul 121S-10-20B 121 5000 1424 200

F-515 Mikropul 121S-10-20B 121 5000 1424 200

EU ID	015	Bulk Cement Loadout					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-110 Norblo ~~BHA~~ 120 AMT 120 72 3000 2500 1650 591 30

B-210 Norblo ~~BHA~~ 120 AMT 120 72 3000 2500 1650 591 30

B-372 Mikropul 36S-8-30-C 36 2000 340 12

B-374 Mikropul 36S-8-30-C 36 2000 340 12

B-382 Mikropul 121S-10-20C 121 5000 1424 86

EU ID	016	Packhouse					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-621 Fuller 2 zone #78 156 12000 1632 40

* - should be converted to Snap Band

MIKRO-PULSAIRE RECOMMENDED SPARE PARTS LIST

2-10-81

F-113

F-213

Model 168 S 10-20 TRH

Serial # 81017 H2-H3

Qty.	Rec'd Spare	P/N	Description	Price/Each
168	168	17877	Filter Bags <u>POLY. UNT. 10' Lg.</u>	1-99 \$ 8.70
				100-Up \$ 7.55
168	17	20118	Filter Bag Retainer <u>HRS</u>	1-48 \$ 20.70
			<u>10' Lg.</u>	49-Up \$ 10.95
1		133433	Timer Assembly Model 72 NEMA <u>4</u>	\$ *
		132596	Timer Model 72 U.L. Label	1-3 \$175.25
				4-10 \$162.25
				11-20 \$149.30
				21-Up \$136.30
		131113	Fuse 1 Amp	\$ 1.65
14	1	132081	Right Angle Valve <u>1"</u>	\$ 25.90
	1	131310	Right Angle Valve Repair Kit	\$ 7.75
14	1	131289	Solenoid Valve <u>ASCO</u> ✓	\$ 15.15
	1	131313	Solenoid Valve Repair Kit	\$ 8.85
168	17	122500	Venturi <u>ALUMINUM</u>	1-300 \$ 10.90
				300-Up \$ 9.60
168	17	351015	Venturi Gasket <u>POLYESTER</u>	\$ 1.70
			Diaphragm Explosion Vent	\$
			Inner Frame	\$
			Outer Frame	\$
			Swing Type Explosion Vent	\$
			Fike Explosion Vent	\$
		1895	3/4" Dresser Coupling Style 65B	\$ 11.20
		18186	3/4" Dresser Coupling Style 90 5"	\$ 18.95
		18383	3/4" Dresser Coupling Style 90 10"	\$ 25.95
		18222	1" Dresser Coupling Style 65B	\$ 10.75
168	17	15112	Filter Bag Clamp	\$ 2.05
		15221	Brixton Latch	\$ 41.00
		21107	Manometer Assembly	\$ 49.95
		181094	Male Connector 1/4" Tube to 1/8" NPT	\$.75
		18967	Elbow Connector 3/16" Tube to 1/8" NPT	\$ 1.50

The above items which are marked with an (*), spare parts prices, may be obtained from the MikroPul Parts Sales Department, (201) 273-6360, upon request.

LINDER INDUSTRIAL MACHINERY CO.
4330 S. FLA. AVE. (P. O. BOX 5330)
LAKELAND, FLA. 33803 PH. 646-5711

FORM 23
REVISION /

SIEMENS-ALLIS

MG 1.1

F-113 & F-213

DUST COLLECTOR

Type RGZ — Standard Totally-Enclosed Fan-Cooled

DIMENSIONS

MARCH 1978

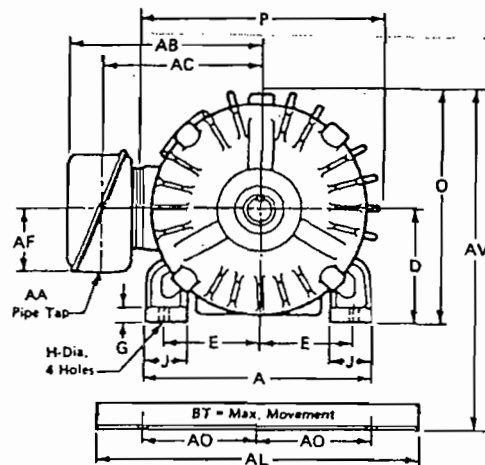
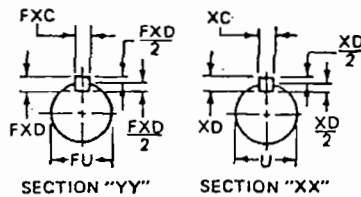
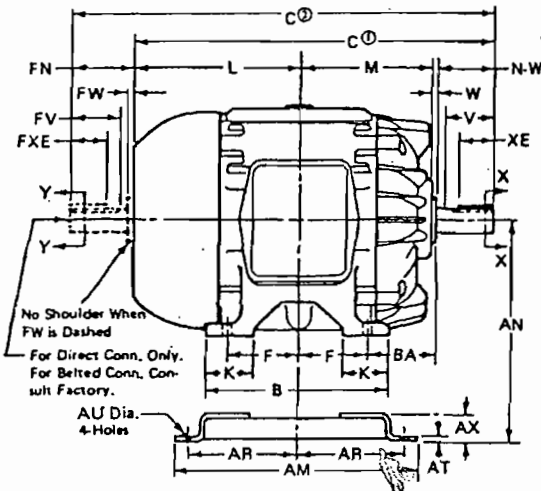
Supersedes 4/75 Issue

Formerly MG 1.1 pages 311 and 313

Ball Bearing (Belted or Direct Connection)

STANDARD DIMENSIONS — IN INCHES

FRAMES 284T-365TS



FRAME	284T	285T	284TS	285TS	324T	326T	324TS	326TS	364T	364TS	365T	365TS
XC'	.500	.500	.375	.375	.500	.500	.500	.500	.625	.500	.625	.500
XD'	.500	.500	.375	.375	.500	.500	.500	.500	.625	.500	.625	.500
XE'	3.25	3.25	1.88	1.88	3.88	3.88	2.00	2.00	4.25	2.00	4.25	2.00
A	14.0	14.0	14.0	14.0	16.0	16.0	16.0	16.0	18.0	18.0	18.0	18.0
B	12.0	13.5	12.0	13.5	12.8	14.2	12.8	14.2	13.5	13.5	14.5	14.5
C'	24.6	26.1	23.2	24.8	27.8	29.2	26.2	27.8	30.9	28.8	31.9	29.8
D	7.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00
E	5.50	5.50	5.50	5.50	6.25	6.25	6.25	6.25	7.00	7.00	7.00	7.00
F	4.75	5.50	4.75	5.50	5.25	6.00	5.25	6.00	5.62	5.62	6.12	6.12
G	.8	.8	.8	.8	.9	.9	.9	.9	1.0	1.0	1.0	1.0
H	.53	.53	.53	.53	.66	.66	.66	.66	.66	.66	.66	.66
J	2.8	2.8	2.8	2.8	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0
K	2.5	2.5	2.5	2.5	2.8	2.8	2.8	2.8	3.0	3.0	3.0	3.0
L	10.5	11.2	10.5	11.2	12.0	12.8	12.0	12.8	13.5	13.5	14.0	14.0
M	9.4	10.1	9.4	10.1	10.4	11.1	10.4	11.1	11.1	11.1	11.6	11.6
N-W	4.62	4.62	3.25	3.25	5.25	5.25	3.75	3.75	5.88	3.75	5.88	3.75
O	14.8	14.8	14.8	14.8	16.6	16.6	16.6	16.6	18.2	18.2	18.2	18.2
P	15.5	15.5	15.5	15.5	17.1	17.1	17.1	17.1	18.5	18.5	18.5	18.5
U''	1.875	1.875	1.625	1.625	2.125	2.125	1.875	1.875	2.375	1.875	2.375	1.875
V'	4.38	4.38	3.00	3.00	5.00	5.00	3.50	3.50	5.62	3.50	5.62	3.50
W'	.12	.12	.12	.12	.12	.12	.12	.12	.38	.38	.38	.38
BA	4.75	4.75	4.75	4.75	5.25	5.25	5.25	5.25	5.88	5.88	5.88	5.88
AL	19.8	19.8	...	...	22.8	22.8	...	...	25.5	...	25.5	...
AM	16.9	18.4	...	...	19.2	20.8	...	...	20.5	...	21.5	...
AN	9.00	9.00	...	...	10.50	10.50	...	...	11.50	...	11.50	...
AO	7.00	7.00	...	...	8.00	8.00	...	...	9.00	...	9.00	...
AR	7.50	8.25	...	...	8.50	9.25	...	...	9.12	...	9.62	...
AT	.19	.19	...	...	.19	.19	...	...	.25	...	.25	...
AU	.62	.62	...	...	.75	.75	...	...	.75	...	.75	...
AV	16.8	16.8	...	...	19.1	19.1	...	...	20.8	...	20.8	...
AX	2.00	2.00	...	...	2.50	2.50	...	...	2.50	...	2.50	...
BT	4.5	4.5	...	...	5.2	5.2	...	...	6.0	...	6.0	...
AA	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00
AB	11.1	11.1	11.1	11.1	13.9	13.9	13.9	13.9	17.0	17.0	17.0	17.0
AC	9.1	9.1	9.1	9.1	10.8	10.8	10.8	10.8	13.2	13.2	13.2	13.2
AF	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	6.2	6.2	6.2	6.2
C'	29.0	30.5	26.8	28.3	32.7	34.2	30.3	31.8	36.2	33.2	37.2	34.2
FXC'	.375	.375	.375	.375	.500	.500	.500	.500	.500	.500	.500	.500
FXD'	.375	.375	.375	.375	.500	.500	.500	.500	.500	.500	.500	.500
FXE'	2.88	2.88	1.88	1.88	3.25	3.25	2.00	2.00	3.25	2.00	3.25	2.00
FXF'	4.38	4.38	3.62	3.62	5.00	5.00	4.12	4.12	5.38	4.50	5.38	4.50
FU''	1.625	1.625	1.625	1.625	1.875	1.875	1.875	1.875	1.875	1.875	1.875	1.875
FV'	3.75	3.75	3.00	3.00	4.38	4.38	3.50	3.50	4.38	3.50	4.38	3.50
FW'	.38	.38	.38	.38	.38	.38	.38	.38	.75	.75	.75	.75
Approx. Ship. Wt. Lbs.	358	420	370	420	565	600	565	600	830	830	885	885

51-810-030

CERTIFICATION

CUSTOMER LONE STAR FLORIDA
 P.O. 51-17996 ITEM _____
 S.O. _____ ITEM _____
 HP 50 RPM 1800 FR. 326T
 PH/HZ/VOLTS 3/60/400
 BY [Signature] DATE 4/5/81

Conduit box can be turned in steps of 90°. When conduit box is to be located on opposite side, same dimensions apply.

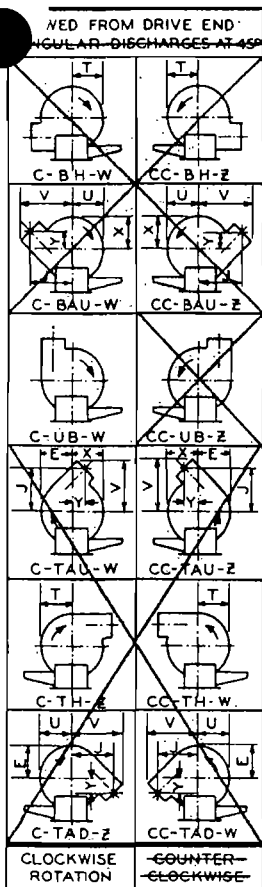
For direct connection, shims may be necessary under feet 1/32" when dimension D is 8" or less; 1/16" when D is greater than 8".

' For single shaft extension motor only.

' For double shaft extension motor only.

' Shaft limits for dimensions U and FU: up through 1-1/2" diameter, +.0000 - .0005"; above 1-1/2" diameter, +.000 - .001".

NOT FOR CONSTRUCTION, INSTALLATION OR

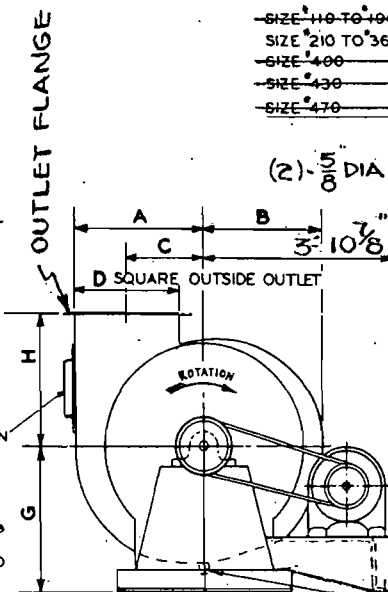
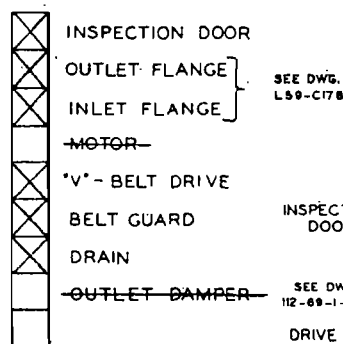


AVAILABLE DISCHARGE POSITIONS

C - CLOCKWISE ROTATION
CC - COUNTER-CLOCKWISE ROTATION
T - TOP
B - BOTTOM
V - VERTICAL
H - HORIZONTAL
A - ANGULAR
U - UP
D - DOWN
W - MOTOR ON RIGHT SIDE
Z - MOTOR ON LEFT SIDE
UB - UP BLAST

SERIAL NO. 81-20039-112

OPTIONAL ACCESSORIES

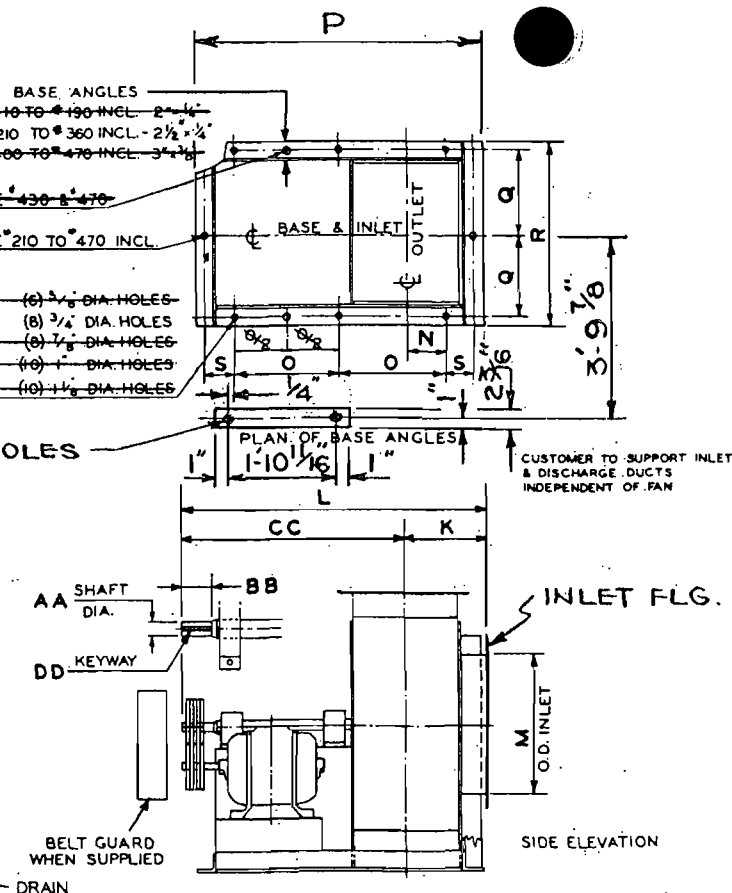


ARRANGEMENT NO. 9

BASE ANGLES
SIZE 110 TO 190 INCL. 2-1/2"
SIZE 210 TO 360 INCL. 2-1/2"
SIZE 400 TO 470 INCL. 3-1/2"
SIZE 430 & 470
SIZE 210 TO 470 INCL.

SIZE 110 TO 190 (6) 3/8" DIA. HOLES
SIZE 210 TO 360 (8) 3/8" DIA. HOLES
SIZE 400 (8) 7/8" DIA. HOLES
SIZE 430 (10) 1" DIA. HOLES
SIZE 470 (10) 1-1/8" DIA. HOLES

(2) 5/8" DIA HOLES



DIMENSIONS (INCHES)

SIZE	A	B	C	D	G	H	K	L	M	N	O	P	Q	R	S	T	U	V	E	X	Y	J	AA	BB	CC	DD	APPROX. WEIGHT	SIZE
110	14 1/4	11 3/4	9	10 3/8	16 3/4	13	7 7/8	33 7/8	11 3/8	3 5/8	12 1/2	31 7/8	8 5/8	19	—	13	12 3/8	19 1/4	13 5/8	11 1/8	2 3/4	15 1/2	1 1/16	2 5/16	26	3/8 x 3/16	300	110
130	16 3/4	14	10 3/4	11 7/8	19 1/4	15	8 5/8	35 7/8	13 3/8	4 5/8	13 1/2	33 3/8	9 3/4	21 1/4	—	15 3/8	14 5/8	22 1/2	16	13 1/4	3	18 1/8	1 1/16	3 5/16	27 1/4	3/8 x 3/16	390	130
150	19 1/4	16	12 3/4	12 7/8	21 3/4	16 1/2	9 1/8	37 3/8	15 3/8	5 1/4	14	34 1/8	10 3/4	23 1/4	—	17 5/8	16 3/4	25 3/8	18 3/8	15 1/8	2 5/8	20 5/8	1 1/16	4 1/16	28 1/4	3/8 x 3/16	485	150
170	21 3/4	17 3/4	14 1/4	14 7/8	24 1/4	18	10 1/8	41 1/8	17 3/8	6 3/16	15 3/4	37 5/8	11 7/8	25 1/2	—	19 3/4	18 3/4	28 1/4	20 3/4	16 3/4	2 5/8	22 3/4	1 1/16	4 3/8	31	3/8 x 3/16	620	170
190	24 1/4	20	16	16 3/8	26 3/4	20 1/4	10 7/8	45 3/8	19 3/8	6 15/16	17 3/4	41 5/8	12 7/8	27 1/2	—	22 1/8	21	31 5/8	23 1/8	18 7/8	3	25 5/8	1 1/16	4 5/8	34 1/2	1/2 x 1/4	770	190
210	27 3/4	22 1/2	18 1/4	18 7/8	30 3/4	22 1/2	12 5/8	50 3/8	21 3/8	7 13/16	19 1/2	48 1/8	14 5/8	31 1/2	2 3/4	25 1/8	23 3/4	35 3/4	26 3/8	21 1/8	3	28 7/8	1 1/16	5 1/8	38	1/2 x 1/4	905	210
230	30 1/4	24 3/4	20 1/4	19 7/8	33 1/4	24 1/2	13 1/8	54 1/8	23 3/8	8 7/16	21 1/4	50 1/8	15 5/8	33 1/2	2 5/8	27 1/2	26 1/8	38 7/8	28 7/8	23 1/8	3	31 3/8	2 1/4	5 1/4	41	1/2 x 1/4	1140	230
250	33 1/4	27 1/4	21 3/4	22 7/8	36 1/4	27	14 5/8	58 3/8	25 3/8	9 13/16	23 1/4	54 3/8	17	35 1/4	2 3/4	30 1/4	28 3/4	42 3/4	31 3/4	25 3/4	3 3/4	34 1/2	2 1/4	5 1/2	44	1/2 x 1/4	1340	250
290	38 1/2	31 1/2	25 3/4	25 3/8	41 1/2	30 1/2	16 7/8	66 7/8	29 3/8	11 3/16	26 1/2	60 3/8	19 5/8	41 1/2	2 5/8	35	33 1/4	49 1/8	36 3/4	29 3/4	3 3/8	39 3/4	2 3/4	6 5/16	50	5/8 x 5/16	1870	290
360	46 3/4	37 3/4	31	31 1/2	49 3/4	36	19 7/8	77 3/8	36 1/2	14 1/8	31 1/4	70 3/8	23 1/8	48 1/2	2 3/4	42 1/4	40	59	44 1/2	35 1/2	3 1/2	47 3/8	2 3/4	7 5/16	57 3/4	5/8 x 5/16	3070	360
400	51 3/4	41 3/4	34 1/2	34 1/2	55 1/4	40	22 3/8	85 3/8	40 1/2	15 3/8	34	77 1/8	25 5/8	53 3/4	3 1/4	46 3/4	44 1/4	65 3/8	49 1/4	39 1/4	3 7/8	52 5/8	2 3/4	8 5/16	63 1/4	5/8 x 5/16	3620	400
430	55	44 1/2	36 1/2	37	58 1/2	43	23 5/8	90 5/8	43 1/2	16 5/8	36 1/2	82 1/8	27	56 1/2	3 1/4	49 3/4	47 1/8	69 7/8	52 3/8	41 7/8	4 5/8	56 1/4	2 3/4	8 5/16	67	5/8 x 5/16	3800	430
470	60	48 1/2	39 1/2	41	63 1/2	47	25 5/8	96 1/8	47 1/2	18 5/8	39 1/4	87 5/8	29 1/8	60 3/4	3 1/4	54 1/4	51 3/8	76 1/4	57 1/8	45 5/8	5 1/4	61 1/8	2 3/4	8 5/16	70 1/2	5/8 x 5/16	5040	470

FAN PERFORMANCE

SIZE 230 I.E. DISCHARGE POSITION C-UB-W
10500 C.F.M. 70 °F. TEMP. 0 FT. ELEVATION
15" S.P. (IN. OF H₂O) 1520 R.P.M. 39.81 B.H.P.

CONTRACT DATA

CUSTOMER LONESTAR FLORIDA/PENNSUCO INC
CUSTOMER'S ORDER NO. 51-18132
FULLER CO. CONTRACT NO. 04-81-20039-112

FULLER COMPANY
BETHLEHEM, PA., USA
A GATE COMPANY
DRAWING NUMBER 112-75-4-3106-2

CERTIFIED BY ÷ *C. B. Jones*

DATE ÷ 2-18-81

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**FULLER COMPANY**

A GATX COMPANY

P.O. BOX 29, CATASAUQUA, PA. 18032

TWX: 510-651-5818 TELEX: 084-7443 CABLE: COLFULLER

PROPOSAL

Mr. Henry R. Patterson
Engineering Department
Lone Star Florida Inc. Cement Plant
P. O. Box 122035 TVS
Hialeah, Florida 33012

DATE January 6, 1981
PROPOSAL NUMBER AO-181-01
YOUR INQUIRY NUMBER
F.O.B. Shipping Points
TERMS: Net 30 Days
FOR ACCEPTANCE WITHIN Thirty DAYS

Dear Mr. Patterson:

The following quotation confirms our telephone conversation of January 5, 1981:

- 1 - No. 230 Fuller IE Fan for 10,500 SCFM, 15" SP, ambient conditions. This will be arrangement No. 9. See page 21 of Bulletin L-5C. We will include the following:

Inspection Door
Flanged Outlet
Flanged Inlet
Drain

Motor, including sheaves

PRICE ----- \$5,557.00

The above application will require 39.8 BHP, therefore we recommend you use a 50 HP, 1800 RPM motor for the drive. In order for us to complete our engineering we must have from you a certified motor drawing. The above fan will run at 1,520 RPM.

This fan is for a dust collector system. Normally a dust collector would have a pressure drop across it varying from 3" to 6" WG SP. Moreover, the balance of your system may also have a variable static pressure. Referring to page 13 of the bulletin notice what happens to BHP on the fan at a constant speed of 1,520 RPM as the static pressure drops, e.g., at 13", the BHP goes over 50. Naturally you could use a larger motor or you could use a damper which artificially induces more resistance, resulting in less CFM and less BHP and offers motor protection at lower static pressures.

PRICE ----- \$ 412.00

Estimated shipping time is 11-12 weeks after we have received your purchase order, certified motor drawing, fan discharge position, rotation and other details.

ADDRESS REPLY: **FULLER COMPANY,**
12 Perimeter Park
Suite 107
Atlanta, Georgia 30341

FULLER COMPANY

BY

Ted Borzak
Ted Borzak

Manager, Atlanta District

ORDERS ARE SUBJECT TO ACCEPTANCE BY AN AUTHORIZED EXECUTIVE OF FULLER COMPANY AND ARE SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE SIDE.

35-5

ORIGINAL CUSTOMER COPY

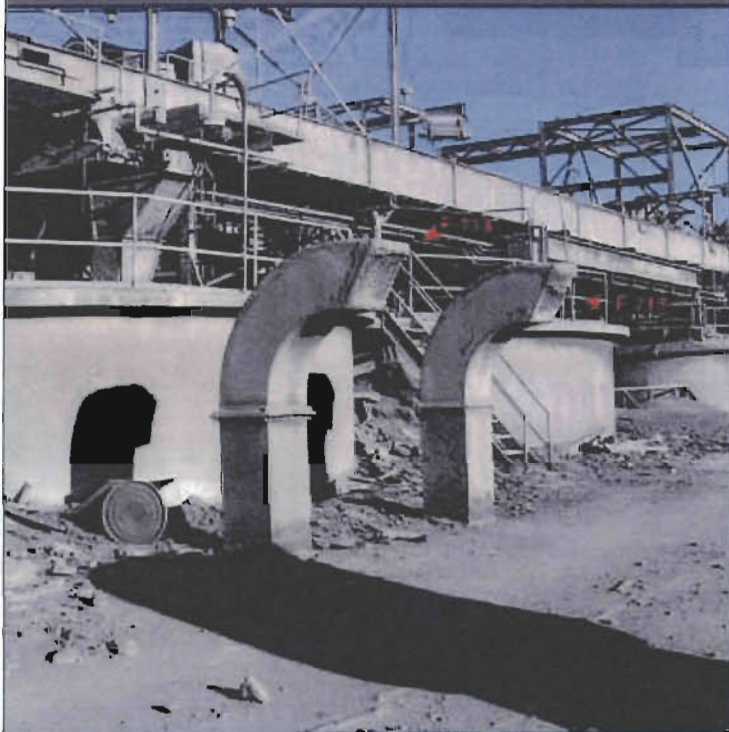
F113/F-213

FINISH MILL #1
F130



Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
010	Finish Mill #1	F-113	
Control Equipment Make	Model #	# of Bags	
Mikrpul	16FF-10-20	168	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
11800	2100		106



EU ID#	EU Source	BF Unit ID	
010	Finish Mill #1	F-130	
Control Equipment Make	Model #	# of Bags	
Norblo	468 AMT	468	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
12000	1977	1.9:1	106



Emission Control Equipment
Aug05

PLOT SCAL



[Redacted area with handwritten notes and signatures]

EU ID	010	Finish Mill #1	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	----------------	---------	-----------	-------	------	-----	-------------------	----------

* F-113	Mikropul	168S 16PF-10-20	168	11800	10,500?	2100	106	
F-130	Norbio ~~to converted~~ BHA	468 AMT	468	200	12000	16480	197/3927	100

A pickups

EU ID	011	Finish Mill #2	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	----------------	---------	-----------	-------	------	-----	-------------------	----------

* F-213	Mikropul	168S 16PF-10-20	168	11800	10,500	2100	106
F-230	Norblo	converted to BHA 468 AMT	468	200	12000	16480	6458/3927 100

Electrical

EU ID	012	Finish Mill #3	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	----------------	---------	-----------	-------	------	-----	-------------------	----------

* F-313	Mikropul	196S-10-20	196	8000.		2300	110
F-330	Norblo	BHA 702 AMT	702	20000		9477	110

*ORIGINAL F-332
F-332
deleted*

F-332	Norblo	BHA 300 AMT	300	336	13500	25000	5265/5497	110
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EU ID	013	Finish Mill #4	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	----------------	---------	-----------	-------	------	-----	-------------------	----------

F-430	Fuller	6 zone #96	576	30000	?	6028	150
F-432	Fuller	5 zone #48	240	17000	?	2510	150
F-228 730	Fuller	~~5 zone #96~~	~~1680~~	~~20000~~	~~117000~~	~~6028~~	~~31688~~ 150

EU ID	014	Cement Storage	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	----------------	---------	-----------	-------	------	-----	-------------------	----------

? F-511	Fuller	BHA 2 zone #78	156	18000		1625	200
? F-512	Norblo	BHA 156 AMT	156	10000		2142	200
F-513	Mikropul	121S-10-20B	121	5000		1424	200
F-514	Mikropul	121S-10-20B	121	5000		1424	200
F-515	Mikropul	121S-10-20B	121	5000		1424	200

EU ID	015	Bulk Cement Loadout	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	---------------------	---------	-----------	-------	------	-----	-------------------	----------

B-110	Norblo BHA	120 AMT	120	72	3000	2500	1650/591	30
B-210	Norblo BHA	120 AMT	120	72	3000	2500	1650/591	30
B-372	Mikropul	36S-8-30-C	36		2000		340	12
B-374	Mikropul	36S-8-30-C	36		2000		340	12
B-382	Mikropul	121S-10-20C	121		5000		1424	86

EU ID	016	Packhouse	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
-------	-----	-----------	---------	-----------	-------	------	-----	-------------------	----------

B-621	Fuller	2 zone #78	156	12000		1632	40
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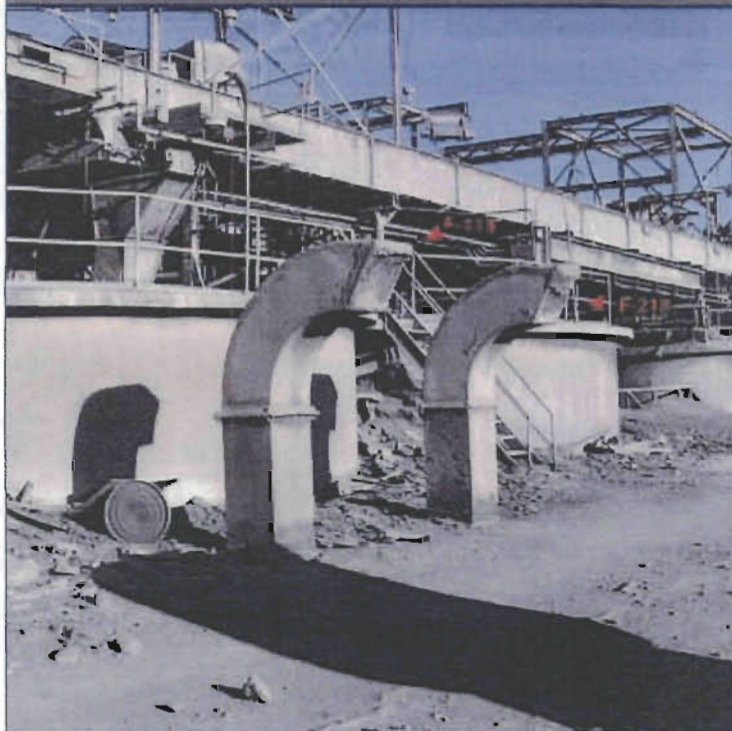
** - should be converted to Snap Band*

FINISH MILL #2
F213



Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
011	Finish Mill #2	F-213	
Control Equipment Make	Model #	# of Bags	
Mikrpul	16FF-10-20	168	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
11800	2100		106



EU ID#	EU Source	BF Unit ID	
011	Finish Mill #2	F-230	
Control Equipment Make	Model #	# of Bags	
Norblo	468 AMT	468	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
12000	6450	1.9:1	106



Emission Control Equipment
Aug05



Here's a
COPY OF THE LIST
FROM TONY
400

EU ID	010	Finish Mill #1						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

* F-113	Mikropul	1685	16FF-10-20	168	11800	10,500	2100	106
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F-130	Norblo	converted to BHA	468 AMT	468	200	12000	16480	1073927 108
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EU ID	011	Finish Mill #2						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

* F-213	Mikropul	1685	16FF-10-20	168	11800	10,500	2100	106
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F-230	Norblo	converted to BHA	468 AMT	468	200	12000	16480	6458 3927 108
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EU ID	012	Finish Mill #3						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

* F-313	Mikropul		196S-10-20	196	8000		2300	110
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F-330	Norblo	BHA	702 AMT	702	20000		9477	110
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F-332	Norblo	BHA	398 AMT	398	336	13500	25000	5285 5497 110
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EU ID	013	Finish Mill #4						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

F-430	Fuller		6 zone #96	576	30000	?	6028	150
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F-432	Fuller		5 zone #48	240	17000	?	2510	150
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F-728	Fuller		6 zone #96	1680	20000	117,000	5028	31688 150
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EU ID	014	Cement Storage						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

F-511	Fuller	BHA	2 zone #78	156	18000		1625	200
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F-512	Norblo	BHA	156 AMT	156	10000		2142	200
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F-513	Mikropul		121S-10-20B	121	5000		1424	200
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F-514	Mikropul		121S-10-20B	121	5000		1424	200
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F-515	Mikropul		121S-10-20B	121	5000		1424	200
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EU ID	015	Bulk Cement Loadout						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

B-110	Norblo	BHA	120 AMT	120	72	3000	2500	1650 591 30
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B-210	Norblo	BHA	120 AMT	120	72	3000	2500	1650 591 30
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B-372	Mikropul		36S-8-30-C	36	2000		340	12
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B-374	Mikropul		36S-8-30-C	36	2000		340	12
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B-382	Mikropul		121S-10-20C	121	5000		1424	86
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EU ID	016	Packhouse						
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL	

B-621	Fuller		2 zone #78	156	12000		1632	40
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* - should be converted to Snap Band

MIKRO-PULSAIRE RECOMMENDED SPARE PARTS LIST

Model 168 S 10-20 TRH

Serial # 81017 H2-H3

2-10-81
F-113
F-213

Qty. In	Rec'd Spare Qty.	P/N	Description		Price/ Each
168	168	17877	Filter Bags POLY. UNT. 10' Lg.	1-99	\$ 8.70
				100-Up	\$ 7.55
168	17	20118	Filter Bag Retainer HRS	1-48	\$ 20.70
			10' Lg.	49-Up	\$ 10.95
1		133433	Timer Assembly Model 72 NEMA 4		\$ *
		132596	Timer Model 72 U.L. Label	1-3	\$175.25
				4-10	\$162.25
				11-20	\$149.30
				21-Up	\$136.30
		131113	Fuse 1 Amp		\$ 1.65
14	1	132081	Right Angle Valve 1"		\$ 25.90
	1	131310	Right Angle Valve Repair Kit		\$ 7.75
14	1	131289	Solenoid Valve ASCO		\$ 15.15
	1	131313	Solenoid Valve Repair Kit		\$ 8.85
168	17	122500	Venturi ALUMINUM	1-300	\$ 10.90
				300-Up	\$ 9.60
168	17	351015	Venturi Gasket POLYESTER		\$ 1.70
			Diaphragm Explosion Vent		\$
			Inner Frame		\$
			Outer Frame		\$
			Swing Type Explosion Vent		\$
			Fike Explosion Vent		\$
		1895	3/4" Dresser Coupling Style 65B		\$ 11.20
		18186	3/4" Dresser Coupling Style 90 5"		\$ 18.95
		18383	3/4" Dresser Coupling Style 90 10"		\$ 25.95
		18222	1" Dresser Coupling Style 65B		\$ 10.75
168	17	15112	Filter Bag Clamp		\$ 2.05
		15221	Brixton Latch		\$ 41.00
		21107	Manometer Assembly		\$ 49.95
		181094	Male Connector 1/4" Tube to 1/8" NPT		\$.75
		18967	Elbow Connector 3/16" Tube to 1/8" NPT		\$ 1.50

The above items which are marked with an (*), spare parts prices, may be obtained from the MikroPul Parts Sales Department, (201) 273-6360, upon request.

LINDER INDUSTRIAL MACHINERY CO.
4330 S. FLA. AVE. (P. O. BOX 5330)
DADELAND, FLA. 33803 PH. 646-5711

FORM 23
REVISION 1

SIEMENS-ALLIS

MG 1.1

F-113 & F-213

DUST COLLECTOR

Type RGZ — Standard Totally-Enclosed Fan-Cooled

DIMENSIONS

MARCH 1978

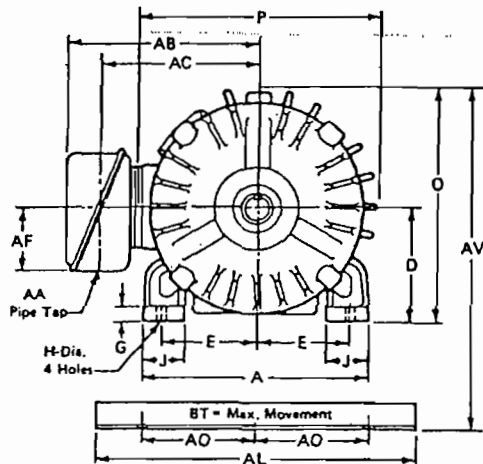
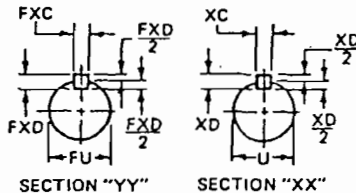
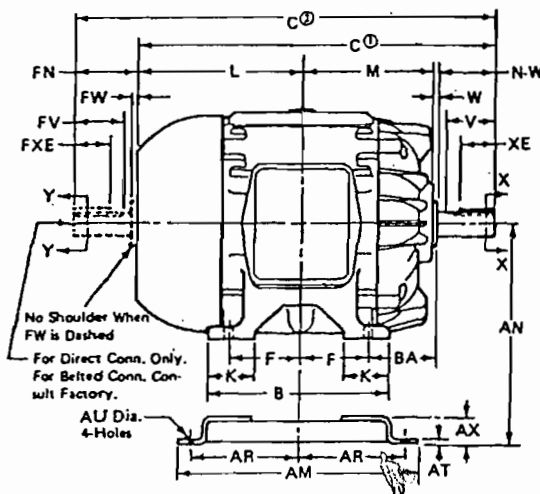
Supersedes 4/75 Issue

Formerly MG 1.1 pages 311 and 313

Ball Bearing (Belted or Direct Connection)

STANDARD DIMENSIONS — IN INCHES

FRAMES 284T-365TS



51-810-030

Key	FRAME	284T	286T	284TS	286TS	324T	326T	324TS	326TS	364T	364TS	365T	365TS
	XC ¹	.500	.500	.375	.375	.500	.500	.500	.500	.625	.500	.625	.500
	XD ¹	.500	.500	.375	.375	.500	.500	.500	.500	.625	.500	.625	.500
	XE ¹	3.25	3.25	1.88	1.88	3.88	3.88	2.00	2.00	4.25	2.00	4.25	2.00
	A	14.0	14.0	14.0	14.0	16.0	16.0	16.0	16.0	18.0	18.0	18.0	18.0
	B	12.0	13.5	12.0	13.5	12.8	14.2	12.8	14.2	13.5	13.5	14.5	14.5
	C ²	24.6	26.1	23.2	24.8	27.8	29.2	26.2	27.8	30.9	28.8	31.9	29.8
	D	7.00	7.00	7.00	7.00	8.00	8.00	8.00	8.00	9.00	9.00	9.00	9.00
	E	5.50	5.50	5.50	5.50	6.25	6.25	6.25	6.25	7.00	7.00	7.00	7.00
	F	4.75	5.50	4.75	5.50	5.25	6.00	5.25	6.00	5.62	5.62	6.12	6.12
	G	.8	.8	.8	.8	.9	.9	.9	.9	1.0	1.0	1.0	1.0
	H	.53	.53	.53	.53	.66	.66	.66	.66	.66	.66	.66	.66
	J	2.8	2.8	2.8	2.8	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0
	K	2.5	2.5	2.5	2.5	2.8	2.8	2.8	2.8	3.0	3.0	3.0	3.0
	L	10.5	11.2	10.5	11.2	12.0	12.8	12.0	12.8	13.5	13.5	14.0	14.0
	M	9.4	10.1	9.4	10.1	10.4	11.1	10.4	11.1	11.1	11.1	11.6	11.6
	N-W	4.62	4.62	3.25	3.25	5.25	5.25	3.75	3.75	5.88	3.75	5.88	3.75
	D	14.8	14.8	14.8	14.8	16.6	16.6	16.6	16.6	18.2	18.2	18.2	18.2
	P	15.5	15.5	15.5	15.5	17.1	17.1	17.1	17.1	18.5	18.5	18.5	18.5
	U ^{1,2}	1.875	1.875	1.625	1.625	2.125	2.125	1.875	1.875	2.375	1.875	2.375	1.875
	V ¹	4.38	4.38	3.00	3.00	5.00	5.00	3.50	3.50	5.62	3.50	5.62	3.50
	W ¹	.12	.12	.12	.12	.12	.12	.12	.12	.38	.38	.38	.38
	BA	4.75	4.75	4.75	4.75	5.25	5.25	5.25	5.25	5.88	5.88	5.88	5.88
	AL	19.8	19.8			22.8	22.8			25.5		25.5	
	AM	16.9	18.4			19.2	20.8			20.5		21.5	
	AN	9.00	9.00			10.50	10.50			11.50		11.50	
	AO	7.00	7.00			8.00	8.00			9.00		9.00	
	AR	7.50	8.25			8.50	9.25			9.12		9.62	
	AT	.19	.19			.19	.19			.25		.25	
	AU	.62	.62			.75	.75			.75		.75	
	AV	16.8	16.8			19.1	19.1			20.8		20.8	
	AX	2.00	2.00			2.50	2.50			2.50		2.50	
	BT	4.5	4.5			5.2	5.2			6.0		6.0	
	AA	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00
	AB	11.1	11.1	11.1	11.1	13.9	13.9	13.9	13.9	17.0	17.0	17.0	17.0
	AC	9.1	9.1	9.1	9.1	10.8	10.8	10.8	10.8	13.2	13.2	13.2	13.2
	AF	3.5	3.5	3.5	3.5	5.0	5.0	5.0	5.0	6.2	6.2	6.2	6.2
	C ¹	29.0	30.5	26.8	28.3	32.7	34.2	30.3	31.8	36.2	33.2	37.2	34.2
	FXC ¹	.375	.375	.375	.375	.500	.500	.500	.500	.500	.500	.500	.500
	FXD ¹	.375	.375	.375	.375	.500	.500	.500	.500	.500	.500	.500	.500
	FXE ¹	2.88	2.88	1.88	1.88	3.25	3.25	2.00	2.00	3.25	2.00	3.25	2.00
	FN ¹	4.38	4.38	3.62	3.62	5.00	5.00	4.12	4.12	5.38	4.50	5.38	4.50
	FU ^{1,2}	1.625	1.625	1.625	1.625	1.875	1.875	1.875	1.875	1.875	1.875	1.875	1.675
	FV ¹	3.75	3.75	3.00	3.00	4.38	4.38	3.50	3.50	4.38	3.50	4.38	3.50
	FW ¹	.38	.38	.38	.38	.38	.38	.38	.38	.75	.75	.75	.75
Approx. Ship. Wt. Lbs.		358	420	370	420	565	600	565	600	830	830	885	885

CERTIFICATION

CUSTOMER LONE STAR FLORIDA
 P.O. 51-17996 ITEM _____
 S.O. _____ ITEM _____
 HP 50 RPM 1800 FR. 326T
 PH/HZ/VOLTS 3/60/400
 BY [Signature] DATE 4/5/81

Conduit box can be turned in steps of 90°. When conduit box is to be located on opposite side, same dimensions apply.

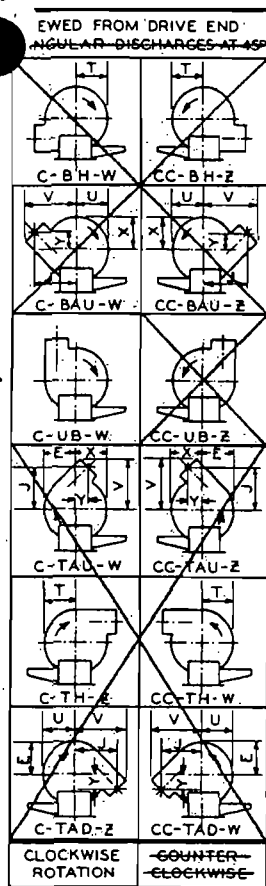
For direct connection, shims may be necessary under feet 1/32" when dimension D is 8" or less; 1/16" when D is greater than 8".

¹ For single shaft extension motor only.

² For double shaft extension motor only.

³ Shaft limits for dimensions U and FU: up through 1-1/2" diameter, +.0060 - .0005"; above 1-1/2" diameter, +.000 - .001".

NOT FOR CONSTRUCTION, INSTALLATION OR



AVAILABLE DISCHARGE POSITIONS

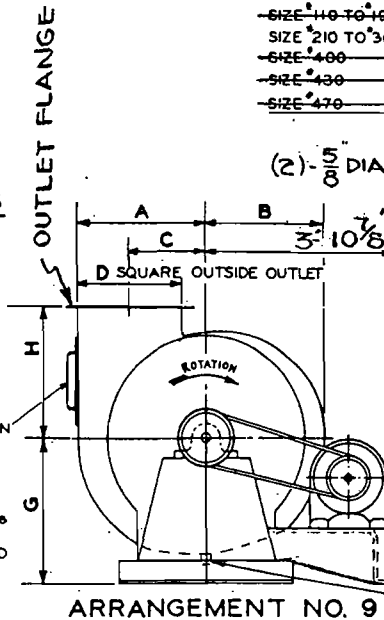
C - CLOCKWISE ROTATION
CC - COUNTER-CLOCKWISE ROTATION
T - TOP
B - BOTTOM
V - VERTICAL
H - HORIZONTAL
A - ANGULAR
U - UP
D - DOWN
W - MOTOR ON RIGHT SIDE
Z - MOTOR ON LEFT SIDE
UB - UP BLAST
DB - DOWN BLAST

SERIAL NO. 81-20039-112

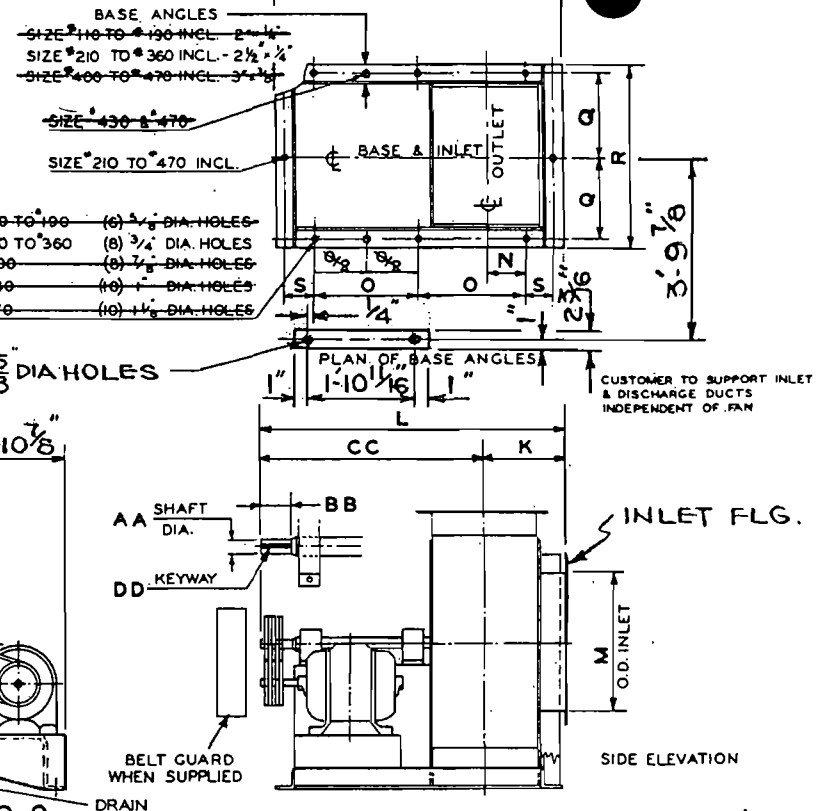
OPTIONAL ACCESSORIES

INSPECTION DOOR
OUTLET FLANGE
INLET FLANGE
MOTOR
V-BELT DRIVE
BELT GUARD
DRAIN
OUTLET DAMPER

SEE DWG. L50-C178
SEE DWG. 112-69-1-2518



ARRANGEMENT NO. 9



FULLER INDUSTRIAL EXHAUSTER (70°F TO 250°F CONSTR.)

DIMENSIONS (INCHES)

SIZE	A	B	C	D	G	H	K	L	M	N	O	P	Q	R	S	T	U	V	E	X	Y	J	AA	BB	CC	DD	APPROX. WEIGHT	SIZE
110	14 1/4	11 3/4	9	10 3/8	16 3/4	13	7 7/8	33 7/8	11 3/8	3 5/8	12 1/2	31 7/8	8 3/8	19	—	13	12 3/8	19 1/4	13 3/8	11 1/8	2 3/4	15 1/2	1 1/16	2 5/16	26	3/8 x 3/16	300	110
130	16 3/4	14	10 3/4	11 7/8	19 1/4	15	8 5/8	35 7/8	13 3/8	4 5/8	13 1/2	33 3/8	9 3/4	21 1/4	—	15 3/8	14 5/8	22 1/2	16	13 1/4	3	18 1/8	1 1/16	3 5/16	27 1/4	3/8 x 3/16	390	130
150	19 1/4	16	12 3/4	12 7/8	21 3/4	16 1/2	9 1/8	37 3/8	15 3/8	5 1/4	14	34 1/8	10 3/4	23 1/4	—	17 5/8	16 3/4	25 3/8	18 3/8	15 1/8	2 5/8	20 5/8	1 1/16	4 1/16	28 1/4	3/8 x 3/16	485	150
170	21 3/4	17 3/4	14 1/4	14 7/8	24 1/4	18	10 1/8	41 1/8	17 3/8	6 3/16	15 3/4	37 5/8	11 7/8	25 1/2	—	19 3/4	18 3/4	28 1/4	20 3/4	16 3/4	2 5/8	22 3/4	1 1/16	4 3/8	31	3/8 x 3/16	620	170
190	24 1/4	20	16	16 3/8	26 3/4	20 1/4	10 7/8	45 3/8	19 3/8	6 15/16	17 3/4	41 5/8	12 7/8	27 1/2	—	22 1/8	21	31 5/8	23 1/8	18 7/8	3	25 5/8	1 15/16	4 5/8	34 1/2	1/2 x 1/4	770	190
210	27 3/4	22 1/2	18 1/4	18 7/8	30 3/4	22 1/2	12 5/8	50 5/8	21 3/8	7 1/16	19 1/2	48 7/8	14 5/8	31 1/2	2 3/4	25 1/8	23 3/4	35 3/4	26 3/8	21 1/8	3	28 7/8	1 15/16	5 1/8	38	1/2 x 1/4	905	210
230	30 1/4	24 3/4	20 1/4	19 7/8	33 3/4	24 1/2	13 5/8	54 1/8	23 3/8	8 1/16	21 1/4	50 1/8	15 5/8	33 1/2	2 5/8	27 1/2	26 1/8	38 7/8	28 7/8	23 3/8	3	31 5/8	2 1/4	5 1/4	41	1/2 x 1/4	1140	230
250	33 1/4	27 1/4	21 3/4	22 7/8	36 3/4	27 1/2	14 5/8	58 5/8	25 3/8	9 1/16	23 1/4	54 3/8	17 3/8	35 1/2	2 3/4	30 1/4	28 3/4	42 3/4	31 3/4	29 3/4	3 3/8	34 1/2	2 1/2	5 1/2	44	1/2 x 1/4	1340	250
290	38 1/2	31 1/2	25 3/4	25 3/8	41 1/2	30 1/2	16 1/8	66 7/8	29 3/8	11 3/16	26 1/2	60 5/8	19 5/8	41 1/2	2 5/8	35	33 1/4	49 1/8	36 3/4	29 3/4	3 3/8	39 3/4	2 3/4	6 5/16	50	5/8 x 5/16	1870	290
360	46 3/4	37 3/4	31	31 1/2	49 3/4	36	19 1/8	77 5/8	36 1/2	14 1/8	31 1/4	70 3/8	23 3/8	48 1/2	2 3/4	42 1/4	40	59	44 1/2	35 1/2	3 1/2	47 3/8	2 3/4	7 5/16	57 3/4	5/8 x 5/16	3070	360
400	51 3/4	41 3/4	34 1/2	34 1/2	55 1/4	40	22 3/8	85 5/8	40 1/2	15 3/8	34	77 1/8	25 5/8	53 3/4	3 1/4	46 3/4	44 1/4	65 3/8	49 1/4	39 1/4	3 7/8	52 5/8	2 3/4	8 5/16	63 1/4	5/8 x 5/16	3620	400
430	55	44 1/2	36 1/2	37	58 1/2	43	23 5/8	90 5/8	43 1/2	16 5/8	36 1/2	82 1/8	27	56 1/2	3 1/4	49 3/4	47 1/8	69 7/8	52 3/8	41 7/8	4 5/8	56 1/4	2 3/4	8 5/16	67	5/8 x 5/16	3800	430
470	60	48 1/2	39 1/2	41	63 1/2	47	25 5/8	96 1/8	47 1/2	18 5/8	39 1/4	87 5/8	29 1/8	60 3/4	3 1/4	54 1/4	51 3/8	76 1/4	57 1/8	45 5/8	5 1/4	61 1/8	2 3/4	8 5/16	70 1/2	5/8 x 5/16	5040	470

FAN PERFORMANCE

SIZE 230 I.E. DISCHARGE POSITION C-UB-W
10500 C.F.M. 70 °F TEMP. 0 FT ELEVATION
15" S.P. (IN. OF H₂O) 1520 R.P.M. 39.81 B.H.P.

CONTRACT DATA

CUSTOMER LONESTAR FLORIDA/PENNSUCO INC.
CUSTOMER'S ORDER NO. 51-18132
FULLER CO. CONTRACT NO. 04-81-20039-112

FULLER COMPANY
BETHLEHEM, PA., USA
A GATE COMPANY

DRAWING NUMBER 112-75-4-3106-2

CERTIFIED BY ÷ *C. B. Baker*

DATE ÷ 2-18-81

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FULLER COMPANY
A GATX COMPANY
P. O. BOX 29, CATASAGUA, PA. 18032
TWX: 510-851-5818 .TELEX: 084-7443 CABLE: COLFULLER

PROPOSAL

TO: Henry R. Patterson
Engineering Department
Lone Star Florida Inc. Cement Plant
P. O. Box 122035 TVS
Hialeah, Florida 33012

DATE January 6, 1981
PROPOSAL NUMBER A0-181-01
YOUR INQUIRY NUMBER
F.O.B. Shipping Points
TERMS: Net 30 Days
FOR ACCEPTANCE WITHIN Thirty Days

Dear Mr. Patterson:

The following quotation confirms our telephone conversation of January 5, 1981:

- 1 - No. 230 Fuller IE Fan for 10,500 SCFM, 15" SP, ambient conditions. This will be arrangement No. 9. See page 21 of Bulletin L-5C. We will include the following:

Inspection Door
Flanged Outlet
Flanged Inlet
Drain

PRICE ----- \$5,557.00

The above application will require 39.8 BHP, therefore we recommend you use a 50 HP, 1800 RPM motor for the drive. In order for us to complete our engineering we must have from you a certified motor drawing. The above fan will run at 1,520 RPM.

This fan is for a dust collector system. Normally a dust collector would have a pressure drop across it varying from 3" to 6" WG SP. Moreover, the balance of your system may also have a variable static pressure. Referring to page 13 of the bulletin notice what happens to BHP on the fan at a constant speed of 1,520 RPM as the static pressure drops, e.g., at 13", the BHP goes over 50. Naturally you could use a larger motor or you could use a damper which artificially induces more resistance, resulting in less CFM and less BHP and offers motor protection at lower static pressures.

PRICE ----- \$ 412.00

Estimated shipping time is 11-12 weeks after we have received your purchase order, certified motor drawing, fan discharge position, rotation and other details.

ADDRESS REPLY: **FULLER COMPANY,**
12 Perimeter Park
Suite 107
Atlanta, Georgia 30341

FULLER COMPANY

BY Ted Borzak
Ted Borzak
Manager, Atlanta District

ALL ORDERS ARE SUBJECT TO ACCEPTANCE BY AN AUTHORIZED EXECUTIVE OF FULLER COMPANY AND ARE SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE SIDE.

535-5

ORIGINAL CUSTOMER COPY

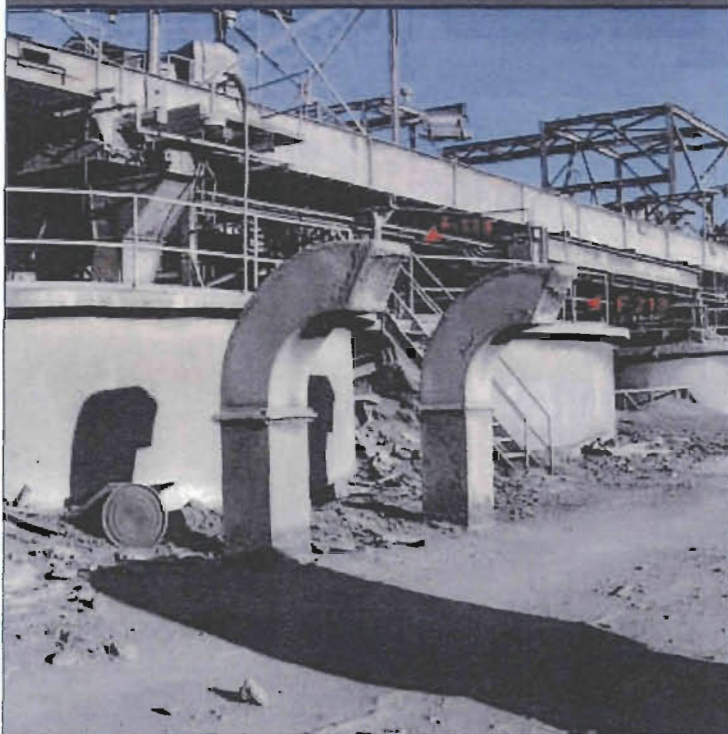
F113/F-213

FINISH MILL #2
F230



Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
011	Finish Mill #2	F-213	
Control Equipment Make	Model #	# of Bags	
Mikrpul	16FF-10-20	168	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
11800	2100		106



Emission Control Equipment
Aug05

EU ID#	EU Source	BF Unit ID	
011	Finish Mill #2	F-230	
Control Equipment Make	Model #	# of Bags	
Norblo	468 AMT	468	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
12000	6450	1.9:1	106



F230

* INDICATES PARTS TO BE PAINTED DTM ON EXTERIOR & PRIMER ON INTERIOR SURFACE
 ** INDICATES PARTS TO BE PAINTED DTM.
 *** INDICATES PARTS TO BE PAINTED SHOP GRAY PRIMER
 **** INDICATES PARTS TO NOT BE PAINTED

THIS DRAWING WAS CREATED USING AUTOCAD RELEASE 1



Handwritten notes and stamps at top right, including a large 'COPY' stamp and various illegible markings.

EU ID	010	Finish Mill #1					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-113	Mikropul	1685	168	11800	10,500	2100	106
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A pickups

EU ID	011	Finish Mill #2					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-213	Mikropul	1685	168	11800	10,500	2100	106
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F-230	Norblo	468 AMT	468	12000	16,480	6450	3927
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EU ID	012	Finish Mill #3					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-313	Mikropul	196S-10-20	196	8000		2300	110
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F-330	Norblo	702 AMT	702	20000		9477	110
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F-332	Norblo	398 AMT	398	13500	25,000	5265	5497
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EU ID	013	Finish Mill #4					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

F-430	Fuller	6 zone #96	576	30000	?	6028	150
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F-432	Fuller	5 zone #48	240	17000	?	2510	150
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F-728	Fuller	5 zone #96	1680	20000	117,000	6028	31688
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EU ID	014	Cement Storage					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

F-511	Fuller	2 zone #78	156	18000		1625	200
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F-512	Norblo	156 AMT	156	10000		2142	200
-------	--------	---------	-----	-------	--	------	-----

F-513	Mikropul	121S-10-20B	121	5000		1424	200
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F-514	Mikropul	121S-10-20B	121	5000		1424	200
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F-515	Mikropul	121S-10-20B	121	5000		1424	200
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EU ID	015	Bulk Cement Loadout					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-110	Norblo	120 AMT	120	3000	2500	1650	591
-------	--------	---------	-----	------	------	------	-----

B-210	Norblo	120 AMT	120	3000	2500	1650	591
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B-372	Mikropul	36S-8-30-C	36	2000		340	12
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B-374	Mikropul	36S-8-30-C	36	2000		340	12
-------	----------	------------	----	------	--	-----	----

B-382	Mikropul	121S-10-20C	121	5000		1424	86
-------	----------	-------------	-----	------	--	------	----

EU ID	016	Packhouse					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-621	Fuller	2 zone #78	156	12000		1632	40
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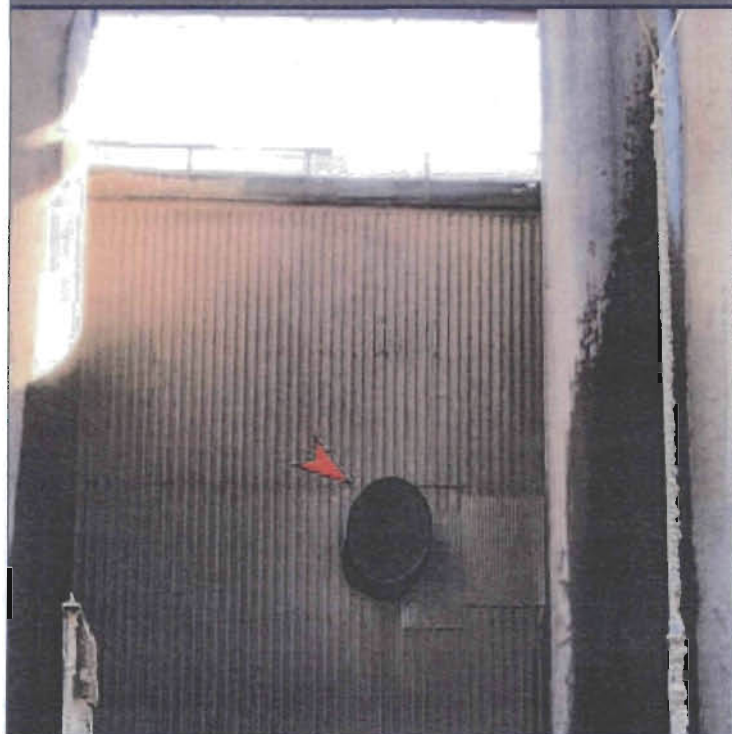
** - should be converted to Snap Band*

FINISH MILL #3
F313

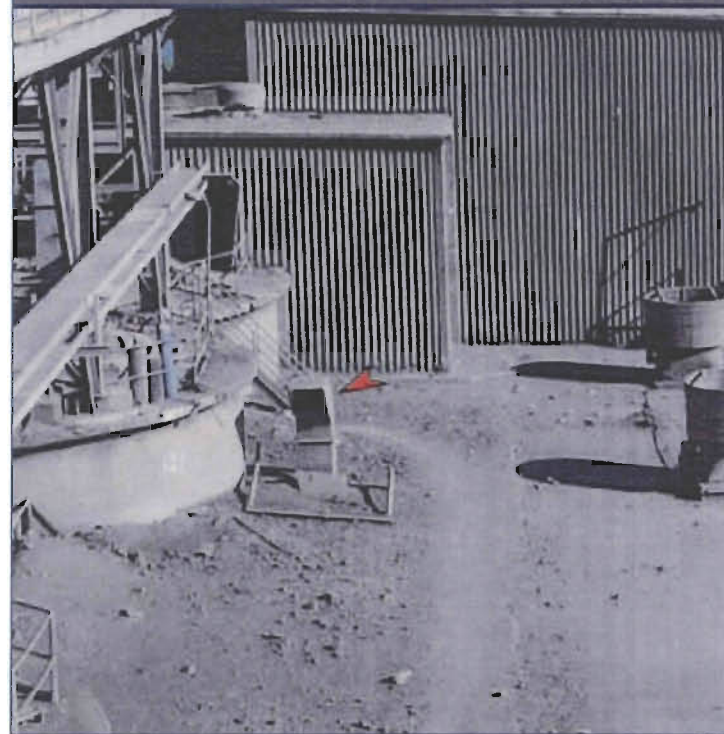


Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
012	Finish Mill #3	533.BF340	
Control Equipment Make	Model #	# of Bags	
FLS Airtech			
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
77800			85



EU ID#	EU Source	BF Unit ID	
012	Finish Mill #3	F-313	
Control Equipment Make	Model #	# of Bags	
Mikropul	196S-10-20	196	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
8000	2300	5.8:1	110



Emission Control Equipment
Aug05

MIKRO-PULSAIRE RECOMMENDED SPARE PARTS LIST

2-10-81

Model 196 S10-20 TRHSerial # 81017 H1

Qty. (Unit)	Rec'd Spare Qty.	P/N	Description		Price/ Each
196	196	17877	Filter Bags <u>POLY. UNT. 10' Lg.</u>	1-99	\$ 8.70
				100-Up	\$ 7.55
196	20	20118	Filter Bag Retainer <u>HRS</u>	1-48	\$ 20.70
			<u>10' Lg.</u>	49-Up	\$ 10.95
1		133433	Timer Assembly Model 72 NEMA <u>4</u>		\$ *
		132596	Timer Model 72 U.L. Label	1-3	\$175.25
				4-10	\$162.25
				11-20	\$149.30
				21-Up	\$136.30
		131113	Fuse 1 Amp		\$ 1.65
14	1	132081	Right Angle Valve <u>1"</u>		\$ 25.90
	1	131310	Right Angle Valve Repair Kit		\$ 7.75
14	1	131289	Solenoid Valve <u>ASCO</u>		\$ 15.15
	1	131313	Solenoid Valve Repair Kit		\$ 8.85
196	20	122500	Venturi <u>ALUMINUM</u>	1-300	\$ 10.90
				300-Up	\$ 9.60
196	20	351015	Venturi Gasket <u>POLYESTER</u>		\$ 1.70
			Diaphragm Explosion Vent		\$
			Inner Frame		\$
			Outer Frame		\$
			Swing Type Explosion Vent		\$
			Fike Explosion Vent		\$
		1895	3/4" Dresser Coupling Style 65B		\$ 11.20
		18186	3/4" Dresser Coupling Style 90 5"		\$ 18.95
		18383	3/4" Dresser Coupling Style 90 10"		\$ 25.95
		18222	1" Dresser Coupling Style 65B		\$ 10.75
196	20	15112	Filter Bag Clamp		\$ 2.05
		15221	Brixton Latch		\$ 41.00
		21107	Manometer Assembly		\$ 49.95
		181094	Male Connector 1/4" Tube to 1/8" NPT		\$.75
		18967	Elbow Connector 3/16" Tube to 1/8" NPT		\$ 1.50

The above items which are marked with an (*), spare parts prices, may be obtained from the MikroPul Parts Sales Department, (201) 273-6360, upon request. LINDER INDUSTRIAL MACHINERY CO.

4330 S. FLA. AVE. (P. O. BOX 5330)
LAKELAND, FLA. 33803 PH. 646-5711

FORM 23
REVISION 1

F313 D.C. June/1996

FAN 250 IE FULLER Co.

ARRGT: 9 MAX RPM: 1500

NUMBER: 74-21256-112-2

SHEAVE 4/5V ^{13.2"}~~9.0"~~ "E" Bush. 2 15/16"

BEARINGS: LINK BELT BALL BEARINGS 3 2 15/16"
INBOARD: 2 15/16" PE-347
OUTBOARD: 2 15/16" P-347

MOTOR 75 HP 1800 RPM 365 T

SHEAVE: 4/5V 9.0 "E" Bush. ~~2 15/16"~~
2 3/8"

V BELTS: 4/5V 1120

CFM' 15,000 18" SP AT 1498 RPM

6/13/96 Actual Speed: 1227 RPM

FINISH MILL #3
F332

P3300
P332

COMPRESSED AIR REQUIREMENTS
 @ 90-100 PSIG (CLEAN, DRY, & OIL FREE)
 NORMAL: 5 SCFM (15 SEC. BETWEEN PULSES)
 MAXIMUM: 17.5 SCFM (6 SEC. BETWEEN PULSES)

SHOP NOTES:

- FIELD NO. 100-100000

- ### REFERENCE DRAWINGS

WIRING DIAGRAM: 850-1004

INDEX:

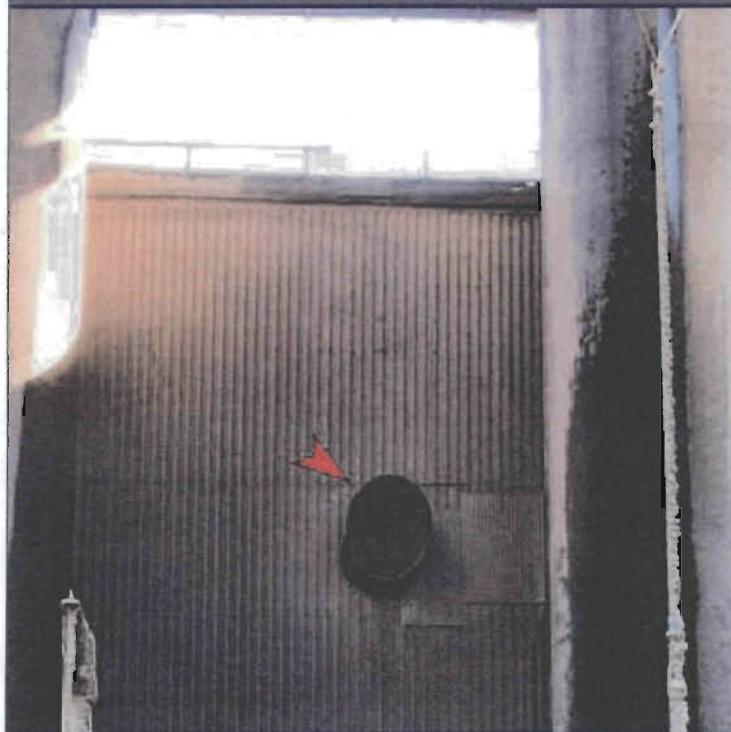
- | | | | | |
|---|--|---|--|--|
| FOR TARMAC PENNSUCO |  | PULSE-JET CONVERSION
FOR
TARMAC PENNSUCO
MEDLEY, FL. | | DATES BY REC 1-20 98
CHECKED BY REC 2-3 98
CHECKED BY <u>QNT</u> 2-3 98
APPROVED BY <u>Joe</u> 2-3 98
NAME N.T.S. DR D |
| LOCATION MEDLEY, FL.
CUSTOMER REPRESENTATIVE
J3 FINISH MILL
CUSTOMER FAX NO. | | | | 5205 East 63rd Street
Kansas City, MO, USA, 64132
PHONE +816-252-0480
FAX +816-382-1673
SALES +816-871-3228 |
| THIS ORDER NO. TARFL-8004
DATE RECEIVED C505413 | THIS ORDER AND THE INFORMATION CONTAINED ON IT AND ANY ATTACHMENTS ARE THE PROPERTY OF THIS GROUP, INC. AND MAY NOT BE USED FOR ANY PURPOSES WITHOUT EXPRESS WRITTEN CONSENT OF THIS GROUP, INC. | ORDER NO. 505-3035
TO ORDER | SHIP 1 OF 4
 | |

FINISH MILL #3
533.BF340

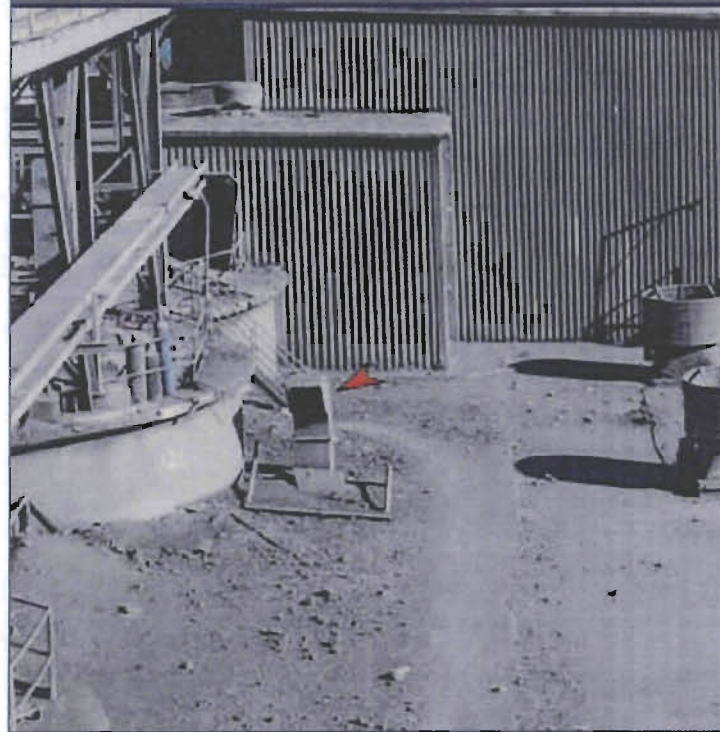


Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
012	Finish Mill #3	593.BF340	
Control Equipment Make		Model #	# of Bags
FLS Airtech			
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
77800			85



EU ID#	EU Source	BF Unit ID	
012	Finish Mill #3	F-313	
Control Equipment Make	Model #	# of Bags	
Mikropul	196S-10-20	196	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
8000	2300	5.8:1	110



Emission Control Equipment
Aug05

FINISH MILL #4
F432

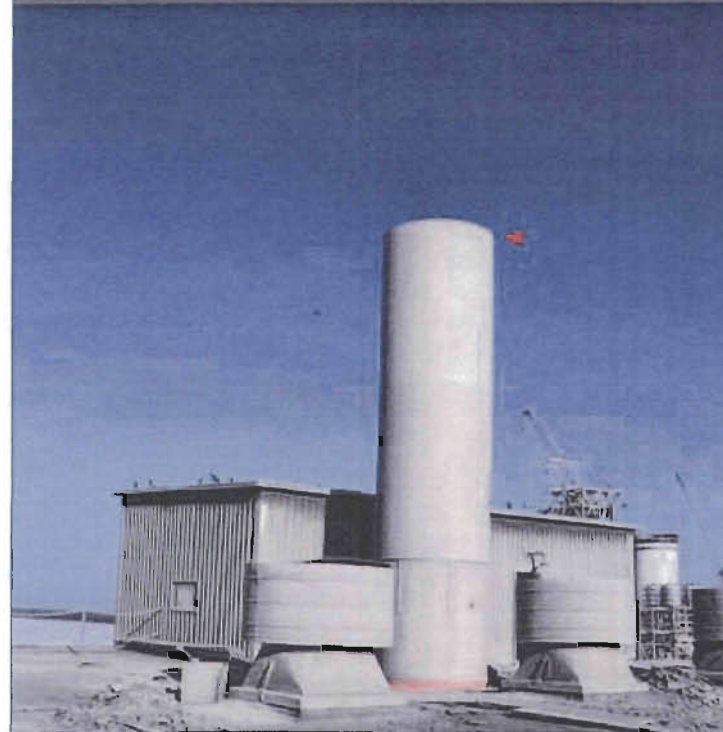


Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
013	Finish Mill #4	F-432	
Control Equipment Make	Model #	# of Bags	
Fuller	5 zone #48	240	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
17000	2510	6.8:1	150



EU ID#	EU Source	BF Unit ID	
013	Finish Mill #4	F-728	
Control Equipment Make	Model #	# of Bags	
Fuller	6 zone #96	576	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
20000	6028	3.3:1	150



Emission Control Equipment
Aug05

FILED: 00-04-03 CAGNY DISTRICT

Date JAN 2, 1974

Fuller's Original Contract No. 73-208-1532

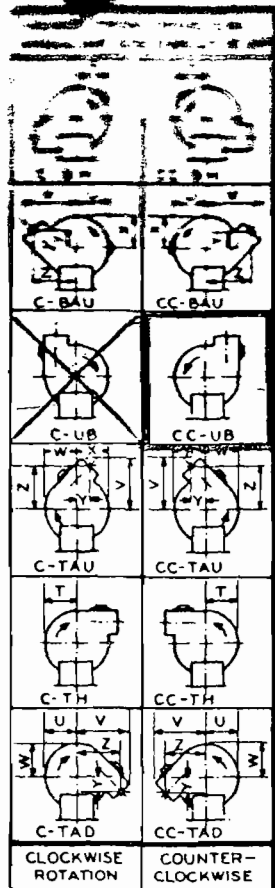
Location: HIALEHA, FLORIDA

#118. 4'-8" RECT. PLENUM PULSE COLLECTOR EQUIP 7 F432 SHEET #1

ARRG'T. NO. 325-73-4-0275

STD. TEMP.

NOTES: 1. When ordering parts use full description of part including part number, serial number, equipment covered and Fuller Company's original contract number.
2. Reference spare parts recommendation of other suppliers:



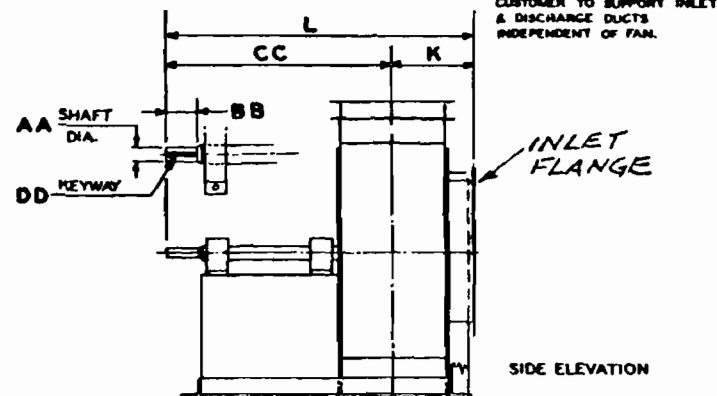
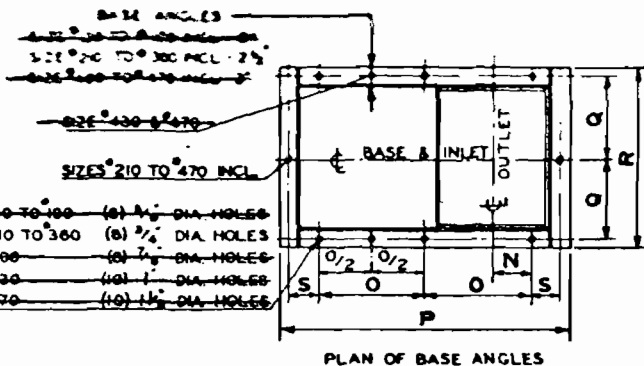
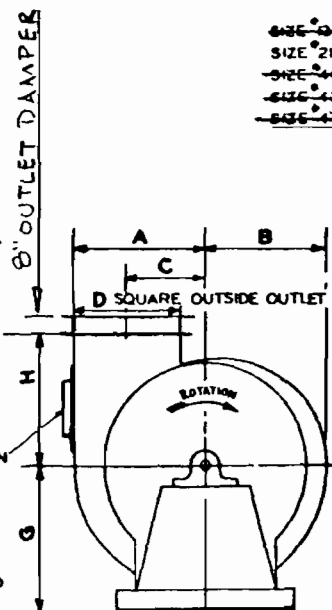
AVAILABLE DISCHARGE POSITIONS

C - COUNTER-CLOCKWISE ROTATION
 CC - COUNTER-CLOCKWISE ROTATION
 T - TOP
 B - BOTTOM
 V - VERTICAL
 H - HORIZONTAL
 A - ANGULAR
 U - UP
 D - DOWN
 UB - UP BLAST

OPTIONAL ACCESSORIES

INSPECTION DOOR
 OUTLET FLANGE } SEE DWG. L59-C178
 INLET FLANGE }
 OUTLET DAMPER - SEE DWG. 112-00-1-2318
 DRAIN
 MOTOR
 V-BELT DRIVE
 DRIVE GUARD

"ITEM F 432"



ARRANGEMENT NO. 1

LEHIGH INDUSTRIAL EXHAUSTER (70°F-TO 250 F. CONSTR.)

SERIAL NO. 73-20898-112-2

DIMENSIONS (INCHES)

SIZE	A	B	C	D	G	H	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	APPROX WEIGHT	SIZE
130	16 3/4	14	10 3/4	11 7/8	19 1/4	15	8 5/8	35 1/2	13 3/8	45 1/8	13 1/2	33 3/8	9 3/4	21 1/4	—	15 3/8	14 5/8	22 1/2	16	13 1/4	3	18 1/8	1 11/16	3 5/16	27 1/4	3/8 x 3/16	360	130
150	19 1/4	16	12 3/4	12 7/8	21 3/4	16 1/2	9 1/8	37 3/8	15 3/8	5 1/4	14	34 1/8	10 3/4	23 1/4	—	17 3/8	16 3/4	25 3/8	18 3/8	15 1/8	2 3/8	20 5/8	1 11/16	4 1/16	28 1/4	3/8 x 3/16	455	150
170	21 3/4	17 3/4	14 1/4	14 7/8	24 1/4	18	10 1/8	41 1/8	17 3/8	6 3/8	15 3/4	37 3/8	11 7/8	25 1/2	—	19 3/4	18 3/4	28 1/4	20 3/4	16 3/4	2 5/8	22 3/4	1 15/16	4 3/8	31 1/2 x 1/4	580	170	
190	24 1/4	20	16	16 3/8	26 3/4	20 1/4	10 7/8	45 3/8	19 3/8	6 15/16	17 3/4	41 3/8	12 7/8	27 1/2	—	22 1/8	21	31 5/8	23 3/8	18 7/8	3	25 5/8	2 3/16	4 5/8	34 1/2	1/2 x 1/4	730	190
210	27 3/4	22 1/2	18 1/4	18 7/8	30 3/4	22 1/2	12 5/8	50 3/8	21 3/8	7 13/16	19 1/2	46 1/8	14 5/8	31 1/2	2 3/4	25 1/8	23 3/4	35 1/4	26 3/4	21 1/8	3	28 7/8	2 3/16	5 1/8	38 1/2 x 1/4	860	210	
230	30 3/4	24 1/2	20 1/4	20 7/8	33 1/4	24 1/2	14 1/8	54 3/8	24 3/8	8 1/2	21 1/2	50 1/8	15 7/8	33 1/2	2 5/8	27 1/2	26 1/4	38 1/4	28 1/4	23 3/4	3	31 3/4	2 1/2	5 1/2	41 1/2 x 1/4	1100	230	
250	33 1/4	27 1/4	21 3/4	22 1/8	36 1/4	27	14 3/8	58 3/8	27 3/8	9 1/16	23 1/4	54 1/8	17 1/2	36 1/4	2 3/4	30 1/4	28 3/4	42 1/4	31 3/4	25 3/4	33 1/4	34 1/2	2 1/4	5 1/2	44 1/2 x 1/4	1290	250	
270	36 1/4	30 1/4	24 1/2	25 1/8	39 1/4	30 1/4	15 1/8	62 3/8	30 3/8	10 1/16	25 1/4	58 1/8	19 1/2	39 1/4	2 5/8	33 1/4	31 3/4	45 1/4	34 1/4	28 1/4	3 1/2	34 1/2	2 3/4	5 5/8	47 1/2 x 1/4	1480	270	
300	39 1/4	33 1/4	27 1/2	28 1/8	42 1/4	33 1/4	16 1/8	66 3/8	33 3/8	11 1/16	27 1/4	62 1/8	20 1/2	41 1/4	2 5/8	36 1/4	34 1/4	48 1/4	37 1/4	31 1/4	3 1/2	37 1/2	2 3/4	6 1/8	50 1/2 x 1/4	1670	300	
360	46 3/4	37 3/4	31	31 1/2	49 3/4	36	19 1/8	77 3/8	36 1/2	14 1/8	31 1/4	70 1/8	23 1/8	48 1/2	2 3/4	42 1/4	40	59	44 1/2	35 1/2	3 1/2	47 3/8	2 3/4	7 5/16	57 3/4	5/8 x 3/16	2900	360
400	51 3/4	41 3/4	34 1/2	34 1/2	55 1/4	40	22 7/8	85 3/8	40 1/2	15 3/8	34	77 1/8	25 3/8	53 3/4	3 1/4	46 3/4	44 1/4	65 3/8	49 1/4	39 1/4	3 7/8	52 5/8	2 3/4	8 5/16	63 1/4	5/8 x 3/16	3450	400
430	55	44 1/2	36 1/2	37	58 1/2	43	23 3/8	90 3/8	43 1/2	16 5/8	36 1/2	82 1/8	27	56 1/2	3 1/4	49 3/4	47 1/8	69 7/8	52 3/8	41 7/8	4 5/8	56 1/4	2 3/4	8 5/16	67	5/8 x 3/16	3600	430
470	60	48 1/2	38 1/2	41	63 1/2	47	25 3/8	96 1/8	47 1/2	18 5/8	39 1/4	87 3/8	29 1/2	60 3/4	3 1/4	54 1/4	51 3/8	76 1/4	57 1/8	45 3/8	5 1/4	61 1/8	2 3/4	8 5/16	70 1/2	5/8 x 3/16	4800	470

FAN PERFORMANCE

SIZE 250 DISCHARGE POSITION CC-UB
 15,000 C.F.M. 70 °F. TEMP. 0 ELEVATION
 18" S.P. (IN. OF H₂O) 1498 R.P.M. 67.8 B.H.P.

CONTRACT DATA

CUSTOMER MAULE INDUSTRIES
 CUSTOMER'S ORDER NO. 45770
 FULLER CO. CONTRACT NO. 3473-20898-112

LEHIGH FAN & BLOWER DIVISION
 FULLER COMPANY
 CATASAUQUA, PENNA.
 SUBSIDIARY OF GENERAL AMERICAN TRANS. CORP.
 L59-D112-5

THIS DRAWING OR PRINT IS THE PROPERTY OF THE FULLER COMPANY AND MUST BE RETURNED UPON REQUEST. REPRODUCTIONS HEREOF OR ANY PART THEREOF OF THE INFORMATION HEREON MAY NOT BE MADE WITHOUT

MAIN AIR VALVES

TO MAIN
AIR VALVES

TO PULSE VALVES

ZONE 1	12	21	32A
ZONE 2	12	22	33
ZONE 3	12	23	34
ZONE 4	12	24	35
ZONE 5	12	25	36
ZONE 6	12	26	37
ZONE 7	12	27	38
ZONE 8	12	28	39
ZONE 9	12	29	40
ZONE 10	12	30	41

TERMINAL
NUMBERS

SEE NOTE

NOTE:
IF ZONE ISOLATION SWITCHES
ARE SUPPLIED ON TIMER CABINET
ADD SUFFIX 'A' TO PULSE VALVE
SOLENOID WIRE NUMBERS

FROM AIR
RECEIVER

120V-60HZ
POWER SUPPLY

INSTALL JUMPERS ON TERMINAL
BLOCK AS PER TIMER CONNECTION
TABLE AND NOTE ON DRAWING
313-69-4-2002 FOR MODEL WP
315-70-2-2001 FOR MODEL WPS.

TIMER
CABINET

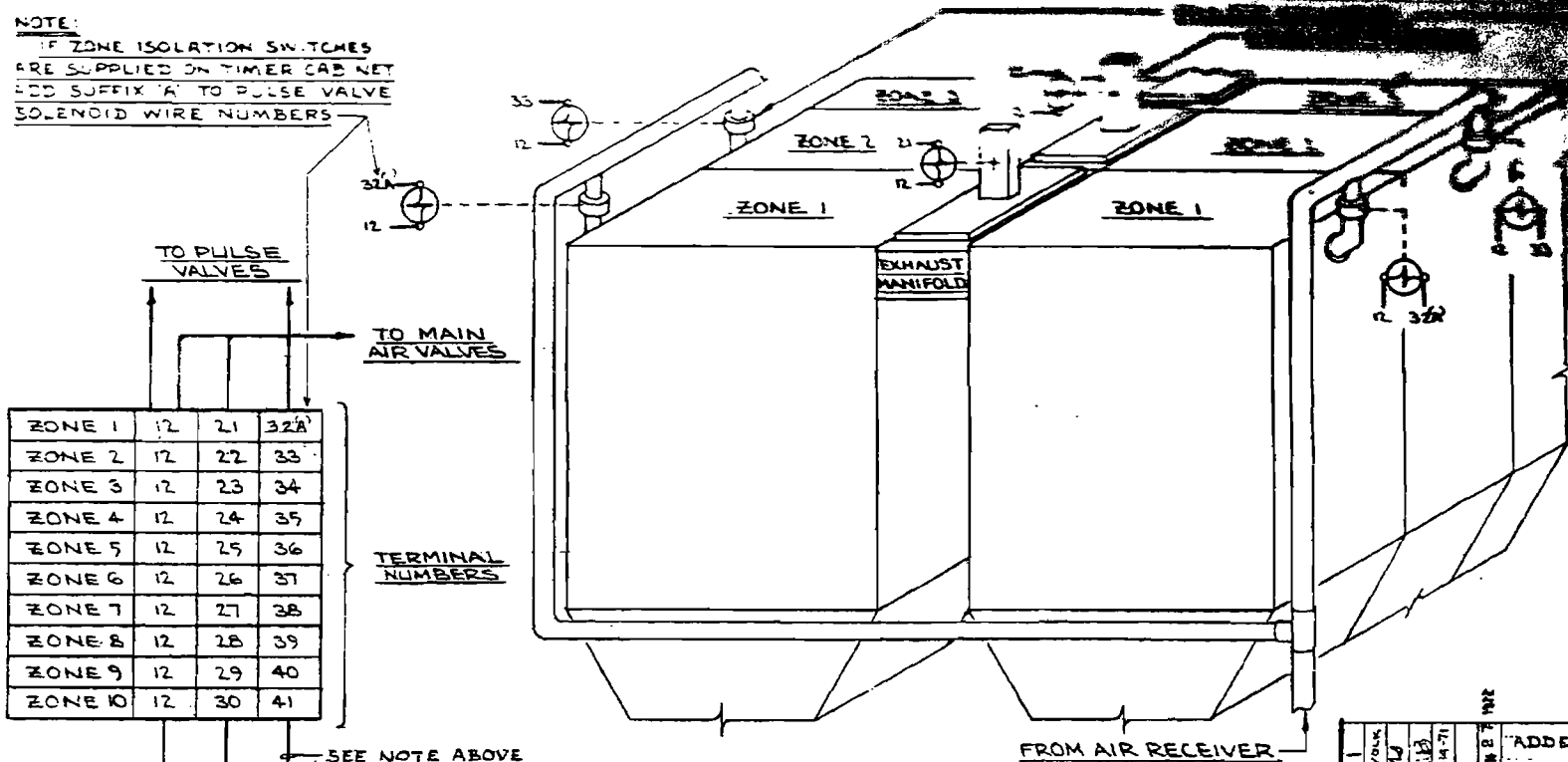
CUSTOMER'S
CONTROL CONTACT
(IF USED) *

DIFFERENTIAL
PRESSURE SWITCH CONTROL
(WHEN FURNISHED) *

* SEE CABINET WIRING FOR JUMPER REMOVAL
IF EITHER OPTION IS USED

REV. NO.						L.VOLV						CHD.						APPR.						DATE						ZONE						MICRO						ADDED ZONE ISOLATION NOTE											
DR.						CHD.						APPR.						DATE						ZONE						MICRO						THE INFORMATION TRANSMITTED HEREWITH IS NOT PUBLIC, BUT BELONGS TO THE FULLER COMPANY WHICH HAS PROVIDED IT SOLELY FOR AN EX- PRESSED RESTRICTED PRIVATE USE. ALL PERSONS, FIRMS OR CORPORATIONS WHO RECEIVE SUCH INFORMATION SHALL BE DEEMED BY THEIR ACT OF RE- CEIVING AND/OR USING SAME TO HAVE AGREED TO MAKE NO DISCLOSURE OR OTHER DISCLOSURE OR USE WHATSOEVER OF ANY OR ALL SUCH INFORMATION EXCEPT SUCH RESTRICTED USE AS IS EXPRESSLY AUTHORIZED IN WRITING BY THE FULLER COMPANY.																	
FULLER COMPANY CATASAUQUA, PA., U.S.A.																																																					
GENERAL AMERICAN TRANSPORTATION CORPORATION																																																					
GATX																																																					
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 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NOTE:
IF ZONE ISOLATION SWITCHES
ARE SUPPLIED ON TIMER CABINET
ADD SUFFIX 'A' TO PULSE VALVE
SOLENOID WIRE NUMBERS



INSTALL JUMPERS ON TERMINAL
BLOCK AS PER TIMER CONNECTION
TABLE AND NOTE ON DRAWING
315-69-4-2002 FOR MODEL WP
315-70-2-2001 FOR MODEL WPS

REV. NO.	1	DATE	10-14-71	ZONE	1	102	ADDED ZONE ISOLATION NOTE
DR.	WJ	CHD.	WJ	APPR.	WJ	DATE	10-14-71
THE INFORMATION TRANSMITTED HEREIN IS NOT PUBLIC, BUT BELONGS TO THE FULLER COMPANY WHICH HAS PROVIDED IT SOLELY FOR AN EXPRESSLY RESTRICTED PRIVATE USE. ALL PERSONS, FIRMS OR CORPORATIONS WHO RECEIVE SUCH INFORMATION SHALL BE DEEMED BY THEIR ACT OF RECEIVING AND/OR USING SAME TO HAVE AGREED TO MAKE NO DISCLOSURE OR OTHER DISCLOSURE OR USE WHATSOEVER OF ANY OR ALL SUCH INFORMATION EXCEPT SUCH RESTRICTED USE AS IS EXPRESSLY AUTHORIZED IN WRITING BY THE FULLER COMPANY.							
FULLER COMPANY CATASAUQUA, PA., U.S.A. GENERAL AMERICAN TRANSPORTATION CORPORATION GATX							
DR. D.R.S. SYSTEM WIRING DIAGRAM (SERIES 156) CHD. FOR TWO TO TEN ZONE PLENUM PULSE APPR. DUST FILTER WITH MODEL WP(S) TIMER DATE 12-22-71 SCALE 1/2" MICRO							
DRAWING NUMBER 315-70-2-5004 REV. NO. 1 SHEET OF 10							

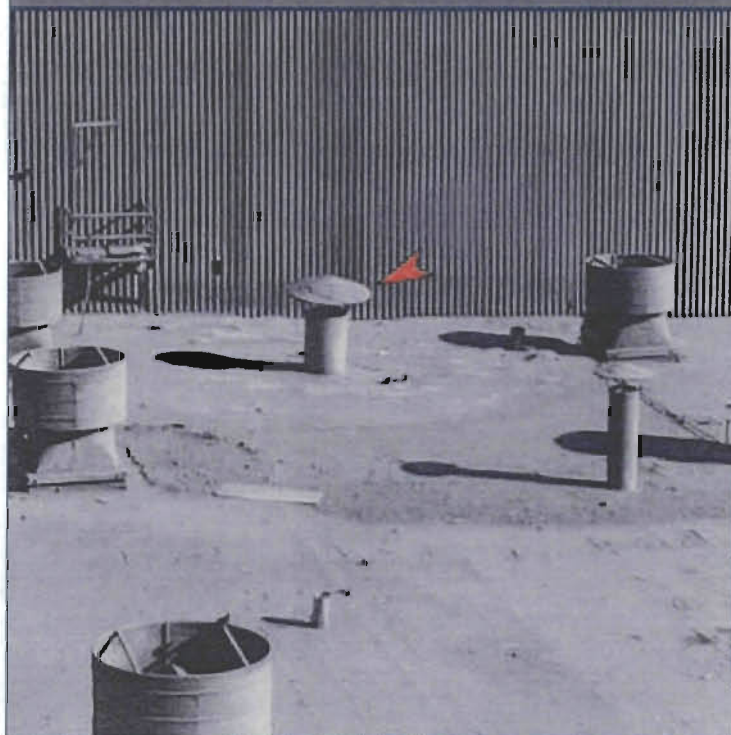
JUN 27 1972

FINISH MILL #4
F430

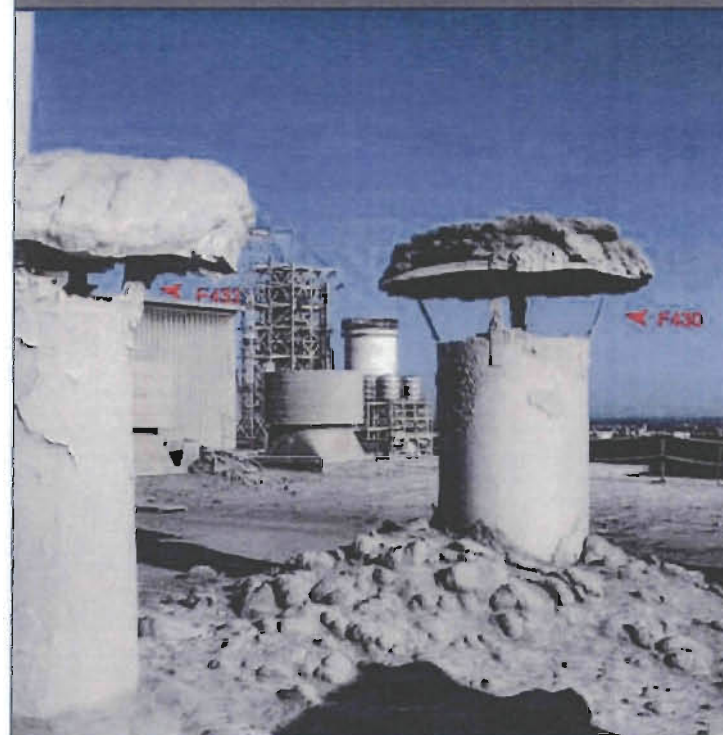


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
012	Finish Mill #3		F-330
Control Equipment Make	Model #	# of Bags	
Norblo	702 AMT	702	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
20000	9477	2.1:1	110



EU ID#	EU Source		BF Unit ID
013	Finish Mill #4		F-430
Control Equipment Make	Model #	# of Bags	
Fuller	6 zone #96	576	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
30000	6028	5.0:1	150



Emission Control Equipment
Aug05

FULLER COMPANY/ GENERAL AMERICAN TRANSPORTATION CORPORATION

124 BRIDGE ST., CATASAUGUA, PA. PHONE 812-234-2341 FAX 812-480-1852 TELEX 094-7448 CABLE CEFRAIR

SPARE PARTS RECOMMENDATION

Date JAN 2 1977

REFERENCES:

Customer

MAULE INDUSTRIES

P. O. No. 45770

Fuller's Original Contract No.

Ultimate User

SALES

Location

HIALEHA, FLORIDA ECUPT # F1130

Equipment Covered

ZONE #25 PLENUM PULSE COLLECTOR

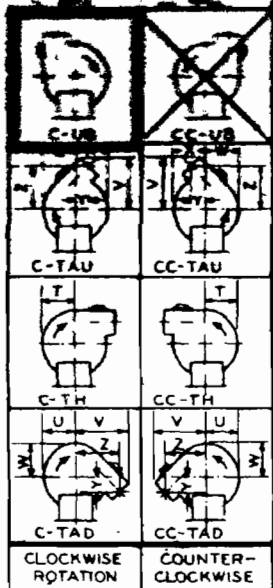
ALERT. NO. 223-73-4-0274

HIGH TEMP.

ITEM NO.	QTY	DESCRIPTION	PART # OR MARK #	DRAWING NUMBER	UNIT WT. #	TOTAL WT. #	UNIT PRICE	TOTAL PRICE	COMMENTS
1	96	BAG 5" DIA. X 20" LG.	314-68-4-0011-02						
		POLY. REINFORCED FELT 11-11 02.							
2	90	CAGE, BAG 8'-0" LG.	325-67-4-0011-02						
3	25	CLAMP, TRIANGULAR	325-67-1-0073-00						
4	1	DIAPHRAGM, POPPET VALVE ASSY	325-72-0103-05						
5	1	2 1/2" ASCO VALVE - CHECK							
		RESTORER DIA. TACH W/ 1 2							
		WAY N.C. SOL. CIB PILOT							
		VALVE - PER ASCO DWG.							
		HV-1 5-539-1 VIBR SEAL							
		110 V - 60 Hz.							
	1	SPARE PART KIT NO. 176-879							

NOTES: 1. When ordering parts use full description of part including part number, serial number, equipment covered and Fuller Company's original contract number.
2. Reference spare parts recommendation of other suppliers:

3. Prices subject to change without notice.



LEHIGH INDUSTRIAL EXHAUSTER

70°F. TO 250°F. CONSTR.

- 1/2" INCH
- 1/4" INCH
- 1/8" INCH
- 1/16" INCH
- 1/32" INCH
- 1/64" INCH
- 1/128" INCH
- 1/256" INCH
- 1/512" INCH
- 1/1024" INCH
- 1/2048" INCH
- 1/4096" INCH
- 1/8192" INCH
- 1/16384" INCH
- 1/32768" INCH
- 1/65536" INCH
- 1/131072" INCH
- 1/262144" INCH
- 1/524288" INCH
- 1/1048576" INCH
- 1/2097152" INCH
- 1/4194304" INCH
- 1/8388608" INCH
- 1/16777216" INCH
- 1/33554432" INCH
- 1/67108864" INCH
- 1/134217728" INCH
- 1/268435456" INCH
- 1/536870912" INCH
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ITEM NO.

QTY.

DESCRIPTION

DRAWING NUMBER

FAN AND DRIVE ARRANGEMENT

SIZE 400IE FAN ARR'GT #1

CC-UB DISCHARGE POSITION

112-75-1-4527 00

*

1

1

FAN & ACCESSORIES - 400IE FAN -

ARR'GT. #1 (70/250 OF CONSTR.) w/

INLET & OUTLET FLG., INSP. DOOR, DRAIN & SHUT GUARD

CC-UB DISCHARGE POSITION

112-73-1-4477 02

NAMEPLATE STAMPING:

CLASS — SIZE 400IE

ARR'GT. 1 MAX. RPM 1322

SERIAL NUMBER 73-20898-112-3

C-2

2

1

150 HP - 1800 RPM - FRAME 445-T

(SUPPLIED BY CUSTOMER)

MOTOR AND SLIDE BACK

WAS SHIPPED TO FULLER CO

RATHER THAN JOB SITE.

CONSOLIDATE WITH FAN

SHIPMENT.

TAG ABOVE ITEMS: ITEM NO. F530

OF

F-430

RECEIVED

APR 17 1975

EDMUNDSON

MATERIAL BILL FOR PART NUMBER

REV. DR. CHD. APPR. DATE MICRO



FULLER COMPANY

CATASAUQUA, PA., U.S.A.

GENERAL AMERICAN TRANSPORTATION CORPORATION

GATX-

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FAN AND DRIVE ARRANGEMENT

SIZE 400IE FAN ARR'GT. #1

CC-UB DISCHARGE POSITION

REF. DWG. 112-75-1-4527 REV.

MATERIAL BILL FOR PART NUMBER

REV. SHEET

DR. Dow

DATE 3-24-75

CHD.

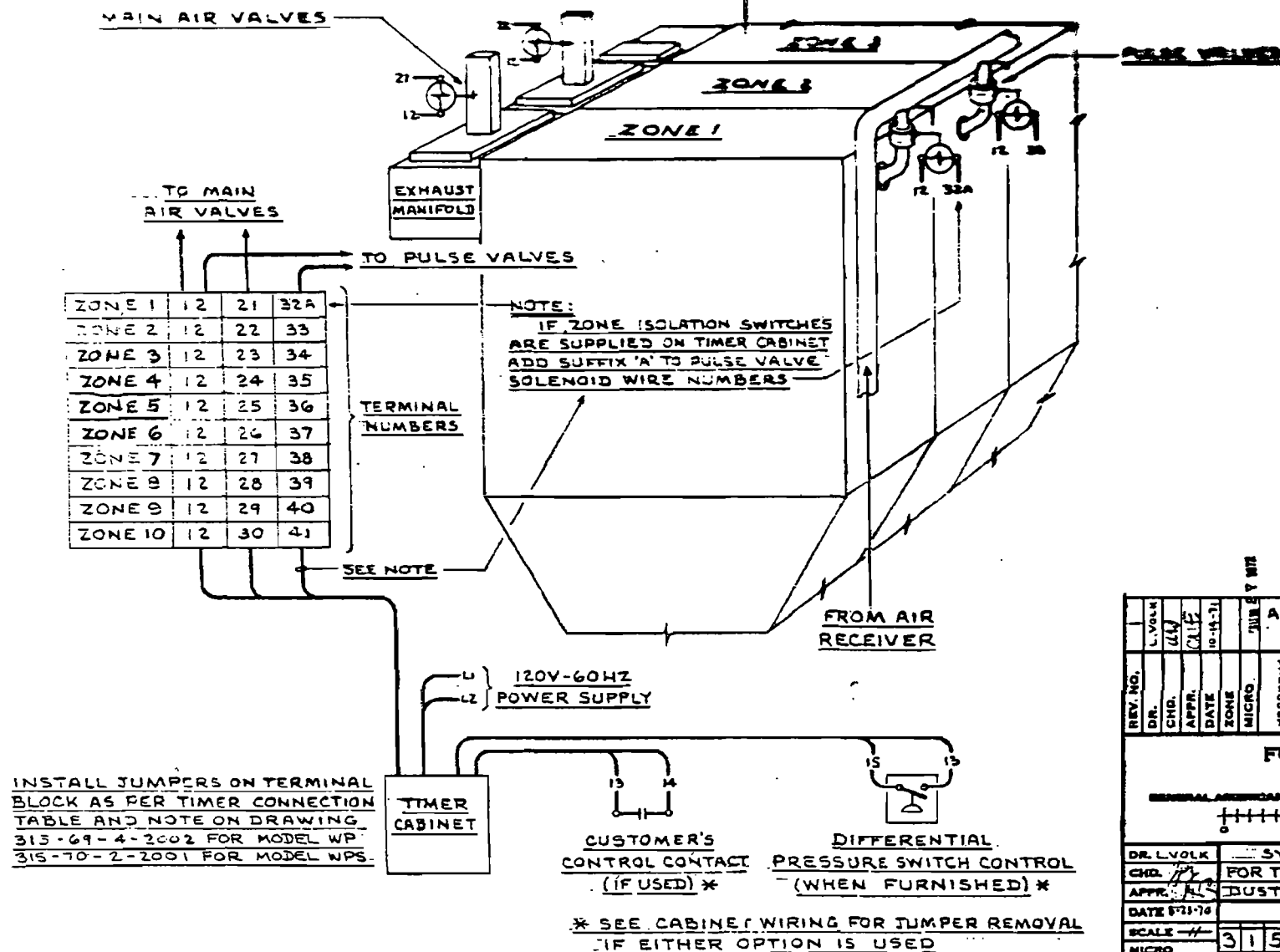
APPR.

MICRO

112-75-1-4527-00

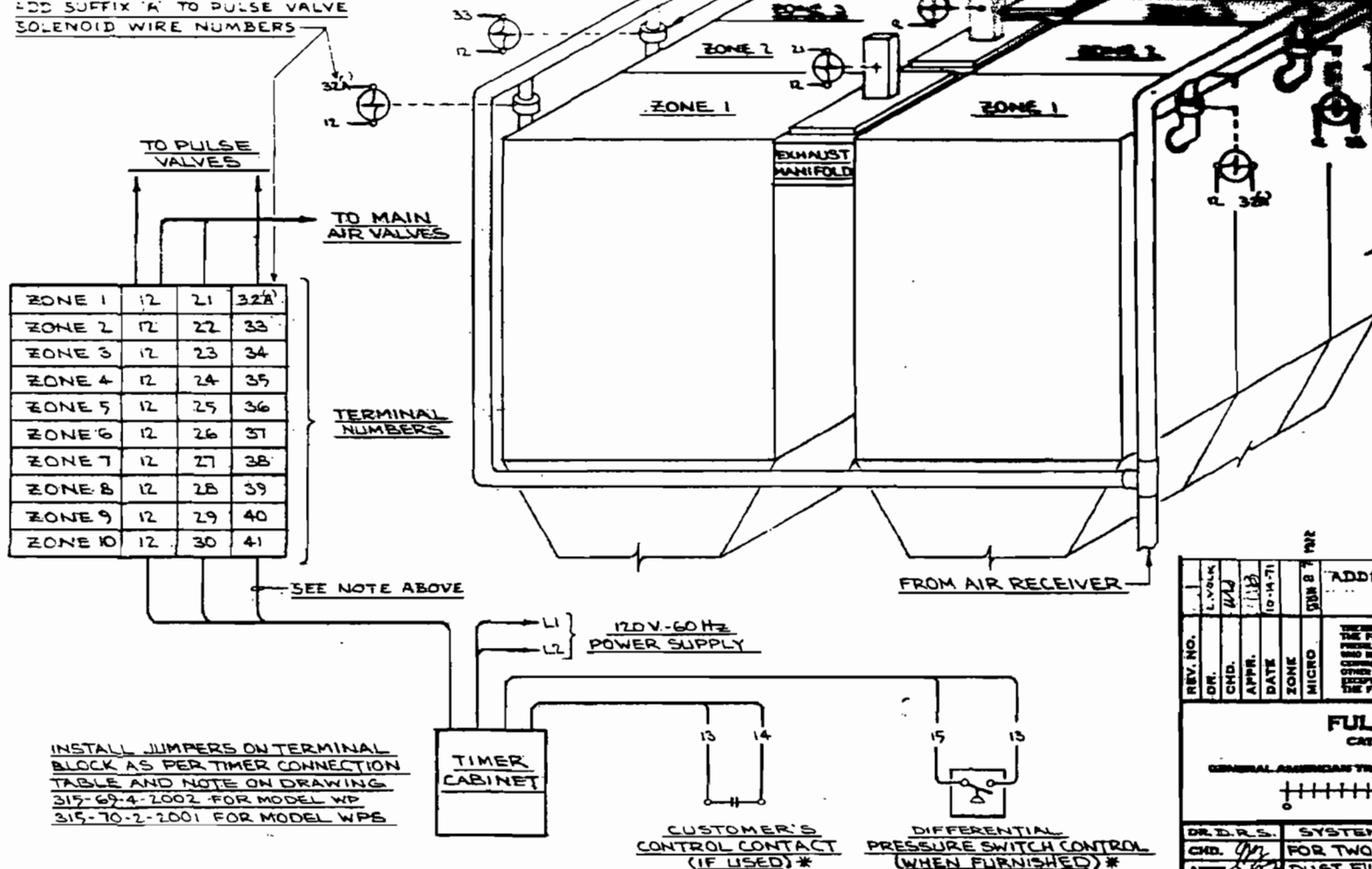
NO. 1
OF 2

73-20898-112



REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	ADDED ZONE ISOLATION NOTE
							THE INFORMATION TRANSMITTED HEREIN IS NOT PUBLIC, BUT BELONGS TO THE FULLER COMPANY WHICH HAS PROVIDED IT SOLELY FOR AN EXPRESSLY RESTRICTED PRIVATE USE. ALL PERSONS, FIRMS OR CORPORATIONS WHO RECEIVE SUCH INFORMATION SHALL BE DEEMED BY THEIR ACT OF RECEIVING AND/OR USING SAME TO HAVE AGREED TO MAKE NO DISCLOSURE OR OTHER DISCLOSURE ON THE ENTIRETY OF ANY OR ALL SUCH INFORMATION EXCEPT SUCH RESTRICTED USE AS IS EXPRESSLY AUTHORIZED IN WRITING BY THE FULLER COMPANY.
FULLER COMPANY CATASAUQUA, PA. U.S.A. GENERAL AMERICAN TRANSPORTATION CORPORATION							GATX
SYSTEM WIRING DIAGRAM FOR TWO TO TEN ZONE PLENUM PULSE DUST FILTER WITH MODEL WP(S) TIMER							
DRAWING NUMBER				REV. SHEET			
315-70-2-5001				1			
SCALE				NO. OF			
MICRO				OF			

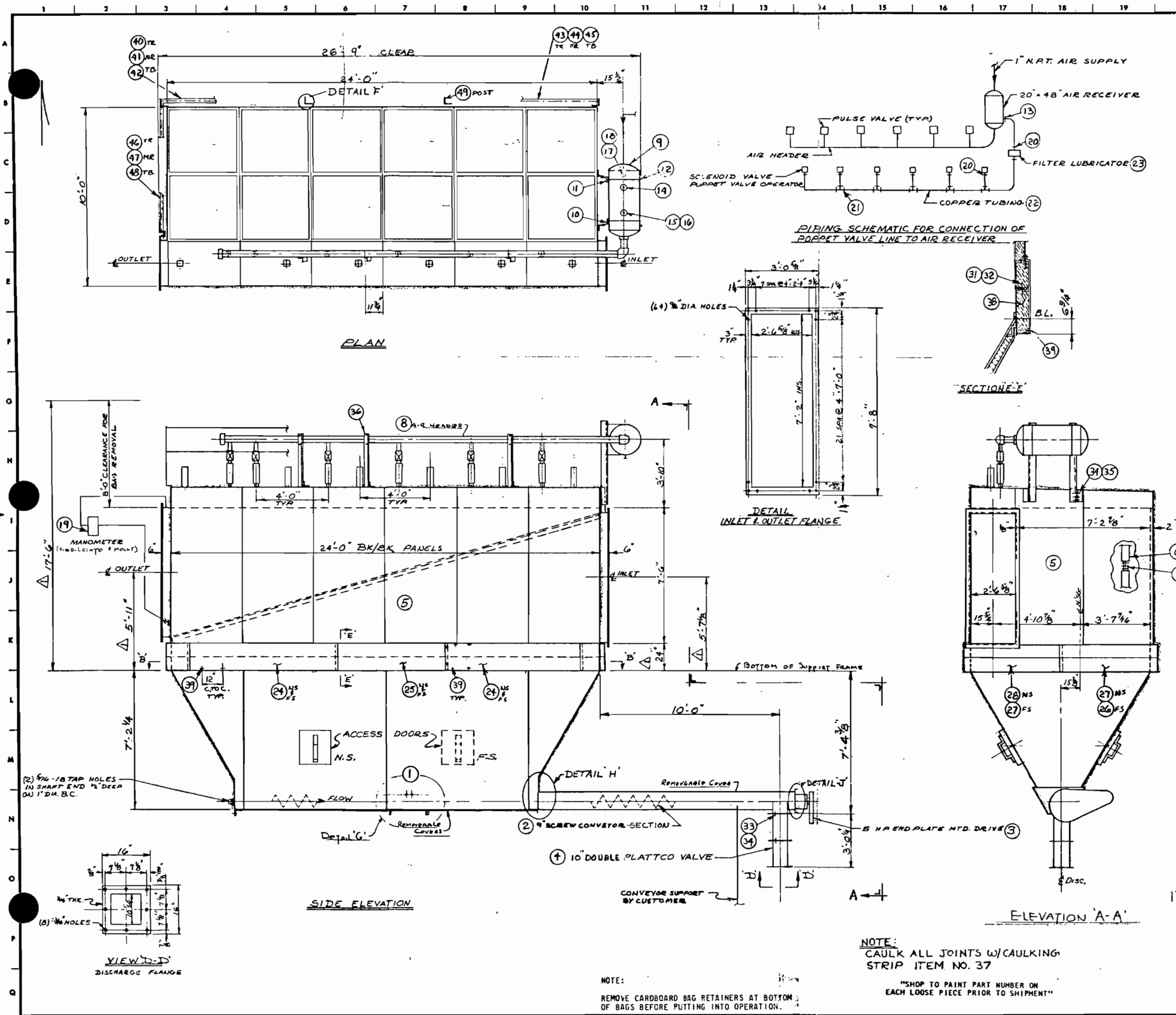
NOTE:
IF ZONE ISOLATION SWITCHES
ARE SUPPLIED ON TIMER CABINET
ADD SUFFIX 'A' TO PULSE VALVE
SOLENOID WIRE NUMBERS



ADDED ZONE ISOLATION NOTE							
THE INFORMATION TRANSMITTED HEREWITH IS NOT PUBLIC, BUT BELONGS TO THE FULLER COMPANY WHICH HAS PROVIDED IT SOLELY FOR AN EXCLUSIVELY RESTRICTED PRIVATE USE. ALL PERSONS, FIRMS OR COMPANIES WHO RECEIVE SUCH INFORMATION SHALL BE DEEMED BY THEIR ACT OF RECEIVING AND/OR USING SAME TO HAVE AGREED TO SAME AND IN PLACE OF ANY OTHER DISCLOSURE OR USE WHATSOEVER OF ANY OR ALL SUCH INFORMATION EXCEPT SUCH RESTRICTED USE AS IS EXPRESSLY AUTHORIZED IN WRITING BY THE FULLER COMPANY.							
FULLER COMPANY CATASAUQUA, PA., U.S.A.							
GENERAL AMERICAN TRANSPORTATION CORPORATION							
GATX							
DR. D.R.S. SYSTEM WIRING DIAGRAM (SERIES 196)							
FOR TWO TO TEN ZONE PLENUM PULSE							
DUST FILTER WITH MODEL WP(S) TIMER							
REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	SUB
DRAWING NUMBER							
315-70-2-5004							
REV. SHEET							
NO. OF							

JUN 27 1962

FINISH MILL #4
F730

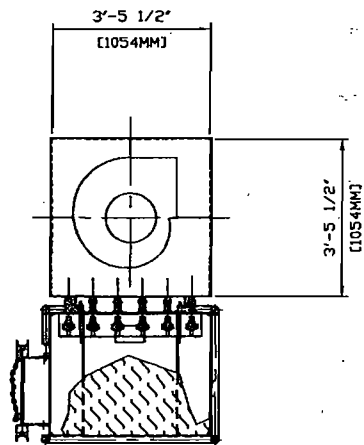


ITEM NO.	QTY.	DESCRIPTION	PART NUMBER
1	1	PLENUM PULSE COLLECTOR	325-73-4-0274-00
2	1	1" N.R.T. AIR SUPPLY	325-73-4-2335-00
3	1	9" SCREW CONVEYOR SECTION (22'-0" LG. APPROX.)	310-73-4-0062-02
4	1	DRIVE ASSEMBLY 9" SCREW CONVEYOR W/S H.P. MOTOR	310-69-3-0279-01
5	1	10" DOUBLE GRAVITY OPERATED PLATCO VALVE MODEL 1031	325-73-4-0321-00
6	576	HOUSING & MANIFOLD ASSEMBLY	314-68-4-0011-03
7	576	BAG, 5" DIA. X 8'-0" LG.	325-67-4-0074-04
8	1	CAGE, BAG 8'-0" LG.	325-73-4-2025-03
9	1	AIR HEADER & 2 1/2" PULSE VALVE ASSEMBLY	325-71-1-2009-01
10	1	AIR RECEIVER	325-71-2-0577-01
11	1	SUPPORT AIR RECEIVER	325-71-2-0577-02
12	1	"U" BOLT	325-71-1-2007-01
13	1	MALE ELBOW, 69 X 8 X 8 BRASS WEATHERHEAD OR EQUAL	
14	1	PRESSURE RELIEF VALVE 1" N.P.T. 1.5 PSI KUNKLE VALVE	
15	1	CO. FIG. #86 BRASS OR BRONZE OR EQUAL	
16	1	ELBOW 45° STREET-1/4" - 150#-IRON SCREWED	
17	1	PRESSURE GAUGE 1/4" N.P.T. BOTTOM CONN. 0-160 PSI	
18	1	3 1/2" DIAL FACE, BLACK STL. CASE MARSHALLTOWN FIG.	
19	1	#23 OR EQUAL	
20	1	BUSHING 1/2" X 1/4" - 125# C.I.	
21	1	1/4" TEEHEAD PETCOCK, BRASS, CRANE 700 OR EQUAL	
22	1	MANOMETER & PIPING ASSEMBLY	325-69-1-2023-00
23	1	MALE CONNECTOR, 68 X 8 X 8 BRASS, WEATHERHEAD OR EQUAL	
24	1	UNION TEE, 64 X 8 BRASS, WEATHERHEAD OR EQUAL	
25	1	COPPER TUBE, 1/2" O.D. SOFT TUBING 25'-0" LG.	
26	1	FILTER LUBRICATOR COMBINATION HANNIFIN OR EQUAL	
27	1	(1/2" PIPE SIZE) CONSIST'G OF (1) 07F31A FILTER & (1) 07L31B LUBRICATOR	
28	4	CLOSURE PLATE, FRAME	325-73-4-1103-01
29	2	CLOSURE PLATE, FRAME	325-73-4-1103-02
30	1	CLOSURE PLATE, FRAME	325-73-4-1103-03
31	1	CLOSURE PLATE, FRAME	325-73-4-1103-04
32	1	CLOSURE PLATE, FRAME	325-73-4-1103-05
33	45	SCREW, HEX. HD. CAP. 3/4" - 10 N.C. X 1 3/4" LG. STL.	
34	45	NUT, HEX. 3/4" - 10 N.C. STL.	
35	145	SCREW, HEX. HD. CAP. 5/8" - 11 N.C. X 1 1/4" LG. STL.	
36	145	NUT, HEX. 5/8" - 11 N.C. STL.	
37	10	SCREW, HEX. HD. CAP. 1/2" - 13 N.C. X 2" LG. STL.	
38	22	NUT, HEX. 1/2" - 13 N.C. STL.	
39	12	SCREW, HEX. HD. CAP. 1/2" - 13 N.C. X 1 1/2" LG.	
40	1	AIR HEADER SUPPORT	325-71-1-2056-01
41	9	CAULKING STRIP EXCEL KOTE 1/8" X 1" X 30'-0" ROLL	
42	1	EXCELLO MFG. CO., CLEVELAND, OHIO	
43	1	ROCKWELL-VELT INSULATION 6# DENSITY 2" THK. UNFACED	
44	1	LOT 210 SQ.FT.	
45	200	TEKS #3-1/4" - 14 X 1" LG. HEX. WASHER HD. SEALING	
46	1	TYPE CARBON STL. 3/8" THK. ZINC PLATED (ELCO INDUSTRIES)	
47	1	TOP RAIL	325-73-4-0611-07
48	1	MID RAIL	325-73-4-0811-09
49	1	TOE BOARD	325-73-4-0811-11
50	1	TOP RAIL	325-73-4-0811-01
51	1	MID RAIL	325-73-4-0811-03
52	1	TOE BOARD	325-73-4-0811-05
53	1	TOP RAIL	325-73-4-0811-07
54	1	MID RAIL	325-73-4-0811-09
55	1	TOE BOARD	325-73-4-0811-11
56	1	POST	325-73-4-0811-13
57	1	CONVEYOR DRIVE END PLATE	310-73-3-0233-01
58	50	SCREW, HEX. HD. CAP. 3/8" - 16 N.C. X 1 1/4" LG. STL.	
59	50	NUT, HEX. 3/8" - 16 N.C. STL.	
60	1	ASBESTOS GASKET, WOVEN 1/8" X 2" X 20'-0" LG.	
61	1	ALUMINUM PASTE - HIGH HEAT #7322 EXCELLO MFG. CO.	

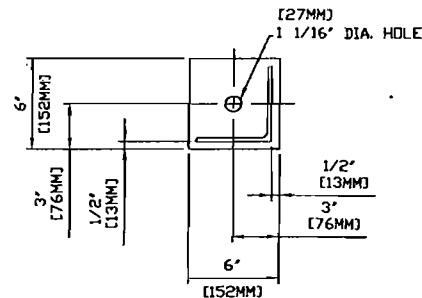
CERTIFIED FOR CONSTRUCTION
 FULLER COMPANY CATASAUQUA, PA.
 SUBSIDIARY OF GENERAL AMERICAN TRANS. CORP.
 DATE 1-30-74
 BY J. Robert

REV. NO.	DR.	DES.	APP.	DATE	ZONE	MICRO	ADDED ITEM NOS. & BILL REVISED TO SUIT
1	RJK	44		11-2-73			24" WAS 18", 5' 7 1/8" WAS 5' 1 1/8" 5' 11" WAS 5' 6" 17' 6" WAS 17' 0" & REVISED MTG. HOLES (SECT. B-B) SPACING - PER CUSTOMER REQUEST.
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FULLER COMPANY CATASAUQUA, PA. U.S.A. GENERAL AMERICAN TRANSPORTATION CORPORATION							
ITEM F-430							
ESTIMATED WEIGHT 29,000* - DEAD LOAD 28,600* - LIVE LOAD 57,600* - TOTAL							
NOTE: CAULK ALL JOINTS W/CAULKING STRIP ITEM NO. 37 "SHOP TO PAINT PART NUMBER ON EACH LOOSE PIECE PRIOR TO SHIPMENT"							
NOTE: REMOVE CARDBOARD BAG RETAINERS AT BOTTOM OF BAGS BEFORE PUTTING INTO OPERATION.							
DR. BJK CHD. J. J. APPR. JAC DATE 8-1-73 SCALE 1/4" = 1'-0" MICRO							
PLENUM PULSE COLLECTOR G ZONE 96 8'-0" BAGS IN LINE ARRANGEMENT INSULATED UNIT - HI-TEMP							
DRAWING NUMBER 325-73-4-0274							
REV. SHEET NO. 1 OF 2							

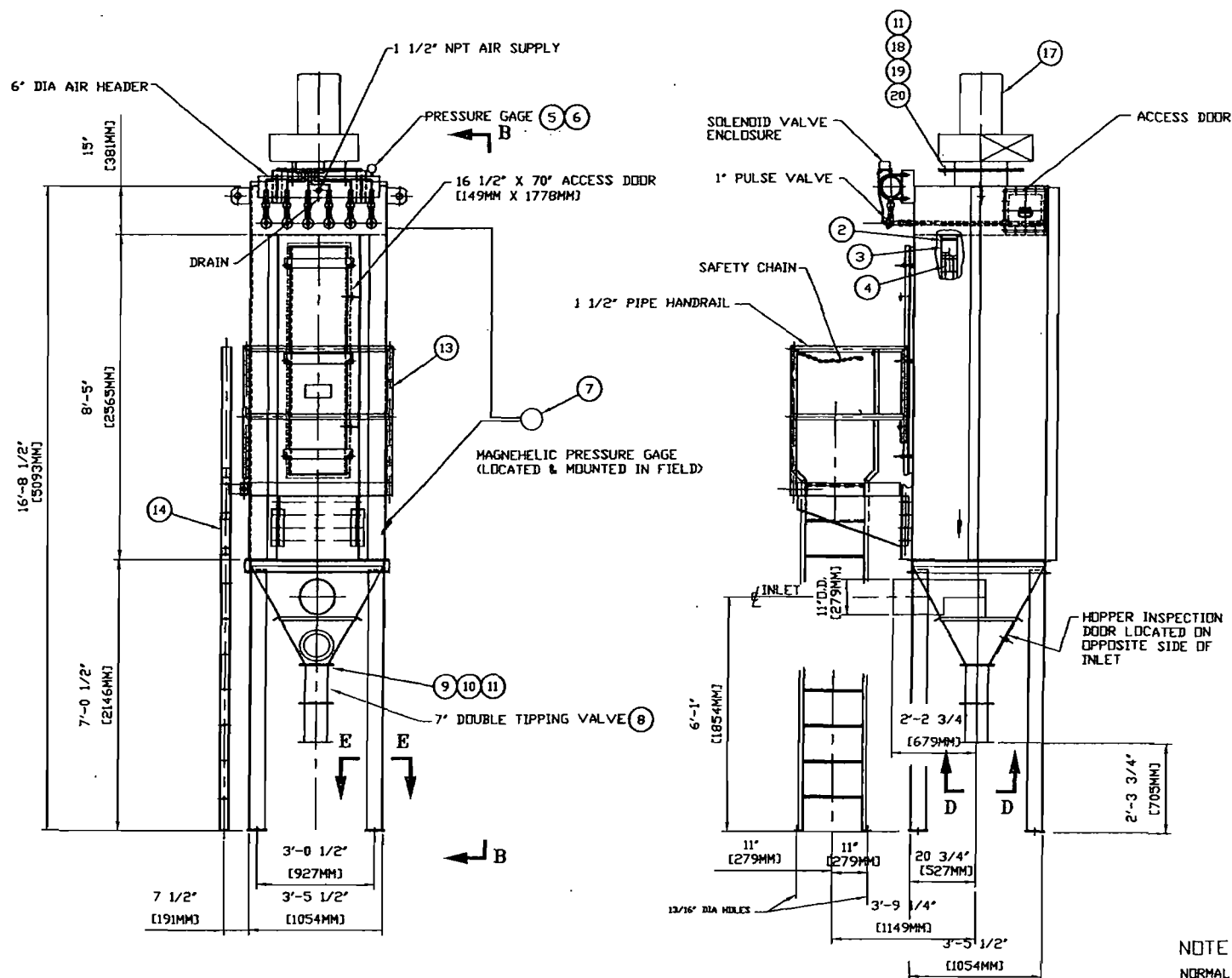
FINISH MILL #6
516.BF510



PLAN VIEW



SECTION "E-E"



VIEW "A-A"

VIEW "B-B"

NOTE TO ERECTOR:

NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER BY THE ERECTOR, TO ENABLE THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

TAG EQUIPMENT AS FOLLOWS

TARMAC AMERICA
CONTRACT No. 04-20030-336

EQUIPMENT No.s
DUST COLLECTOR - 516.BF510
TIPPING VALVE - 516.FV511
FAN - 516.FN512

ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR WT. 3140# (1424Kg)	336-05-4-0116 00
2	36	MODULE ASSEMBLY	336-05-4-0118 00
3	36	BAG CLAMP	336-98-2-2284 01
4	36	BAG 5' DIA X 8'-0" LG H80 POLYESTER	314-78-3-0003 01
5	1	BAG CAGE 5' DIA X 8'-0" LG	336-96-3-1906 01
6	1	STREET ELBOW 45° 1/4" NPT 150#	000-00-5-4095 00
7	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONN. 0-160 PSI	500-01-0-6007 00
8	1	3 1/2" DIA. FACE, BLACK STL. CASE, MARSHALLTOWN	
9	1	FIGURE 23 OR EQUAL	
10	1	MAGNEHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 00
11	1	7" DOUBLE TIPPING VALVE	303-64-4-0117 00
12	14	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
13	14	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
14	1	1" X 1/8" X 10'-0" LG J-CAULK MD. 7446 BURNSTINES	000-02-0-0176 51
15	1	VJ-10 TIMER	315-84-4-3019 00
16	1	PLATFORM	336-03-4-0502 01
17	1	LADDER	336-05-4-0706 01
18	12	HEX HD CAP SCREW 5/8" 11NC X 1 1/2" LG ZINC PL	040-00-4-0022 20
19	12	HEX NUT 5/8" 11NC ZINC PL	040-00-4-0022 30
20	1	FAN NEW YORK BLOWER SIZE 15	
21	8	HEX NUT 3/8" 16NC ZINC PL	
22	8	HEX HD CAPSCREW 3/8" - 16NC X 1 1/4" LG ZINC PL	
23	8	LOCKWASHER 3/8" DIA. SPLIT TYPE ZINC PL	

DESIGN DATA

- MODEL -- 36DS8
- APPLICATION -- CLINKER DUST
- GAS VOLUME -- 1950 ACFM
- OPERATING TEMPERATURE -- 180° F
- DESIGN PRESSURE -- -20" W.G.
- FILTER MEDIA -- POLYESTER
- BAG SIZE -- 5" DIA X 8'-0" LG
- NUMBER OF BAGS (TOTAL) -- 36
- TOTAL CLOTH AREA -- 377 FT²
- AIR TO CLOTH RATIO -- 5.17 : 1
- COMPRESSED AIR CONSUMPTION -- 20 SCFM @ 90 PSIG

REV. NO.	DR.	CHK.	APPR.	DATE	ZONE	MICRO	THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLSMITH AIRTECH INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLSMITH AIRTECH
DR. RJK	CHD. NC	APPR. RK	DATE 2MAR05	SCALE 1/2"=1'	MICRO		
FLSMITH AIRTECH Bethlehem, Pa. 18017 USA							
GENERAL ARRANGEMENT MODEL SIZE 36DS8 V/HOPPER JET PULSE COLLECTOR TARMAC AMERICA MEDLEY, FL							
DRAWING NUMBER 336-05-4-0116							
REV. SHEET 0 1 OF 1							

Unit	Manufacturer	Model	Flow Rate		Cloth Area sq.ft.	Air:Cloth	Vent AGL (ft)	Temp F
			acfm	dscfm				
533.BF340	Fuller	1110s12(6)	77,800	65,307	20,923	3.7		169
F313			8,000					
F633	Norblo	HE-66	1,500		1,040	1.4		
F730 (F728)	Fuller	6 Zone #96	20,000		6,028		150	
536.BF340	Fuller	2M690S12(6)	97,300	80,905			110	
563.BF500	Fuller	360S12(6)	25,900	21,536			110	
516BF510	FLS Airtech	36DS8	1,950				35	

CHARLES ROBERTSON email dated 1/30/06

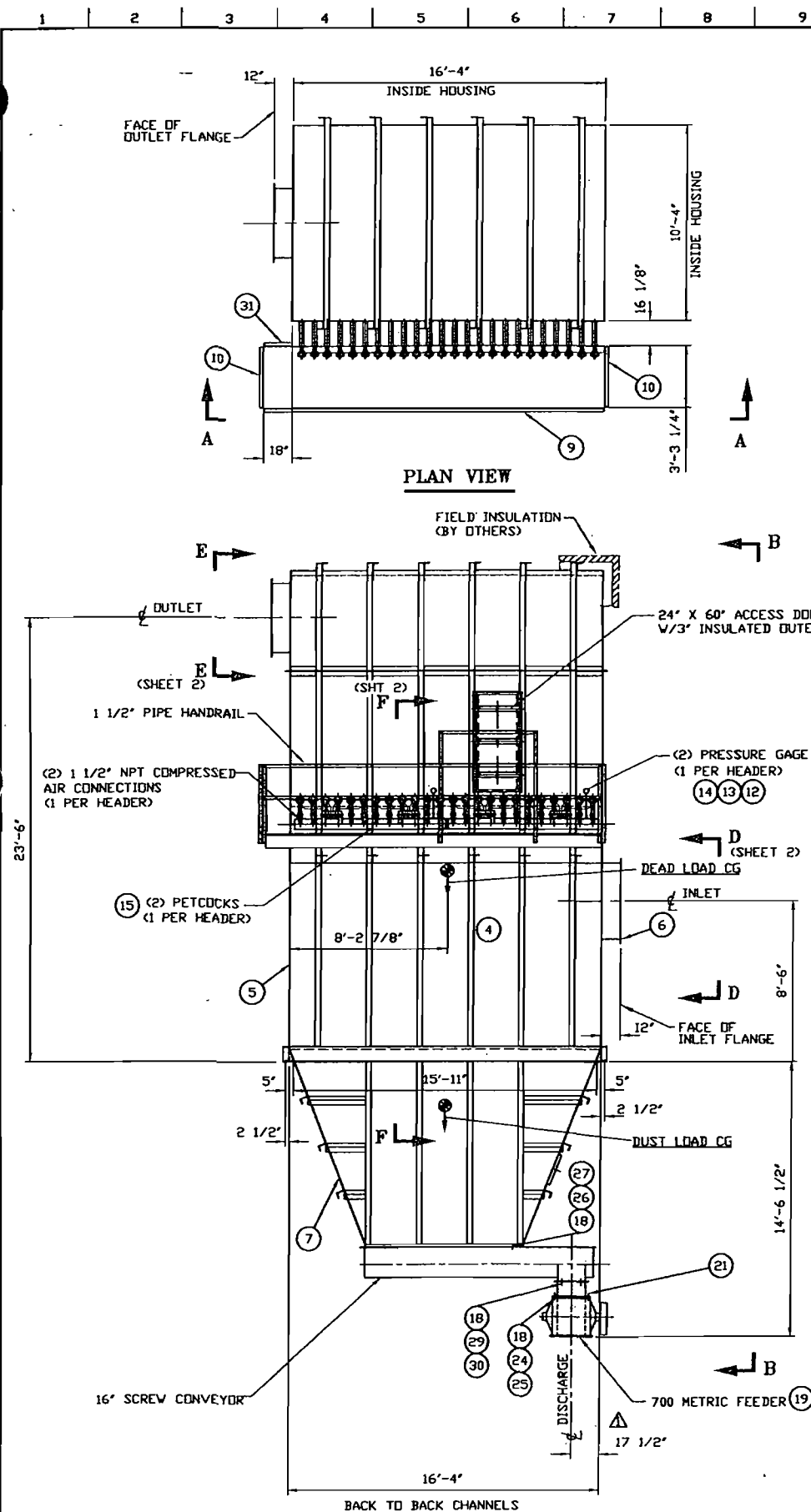
FINISH MILL #6
536.BF500



Pennsuco Cement

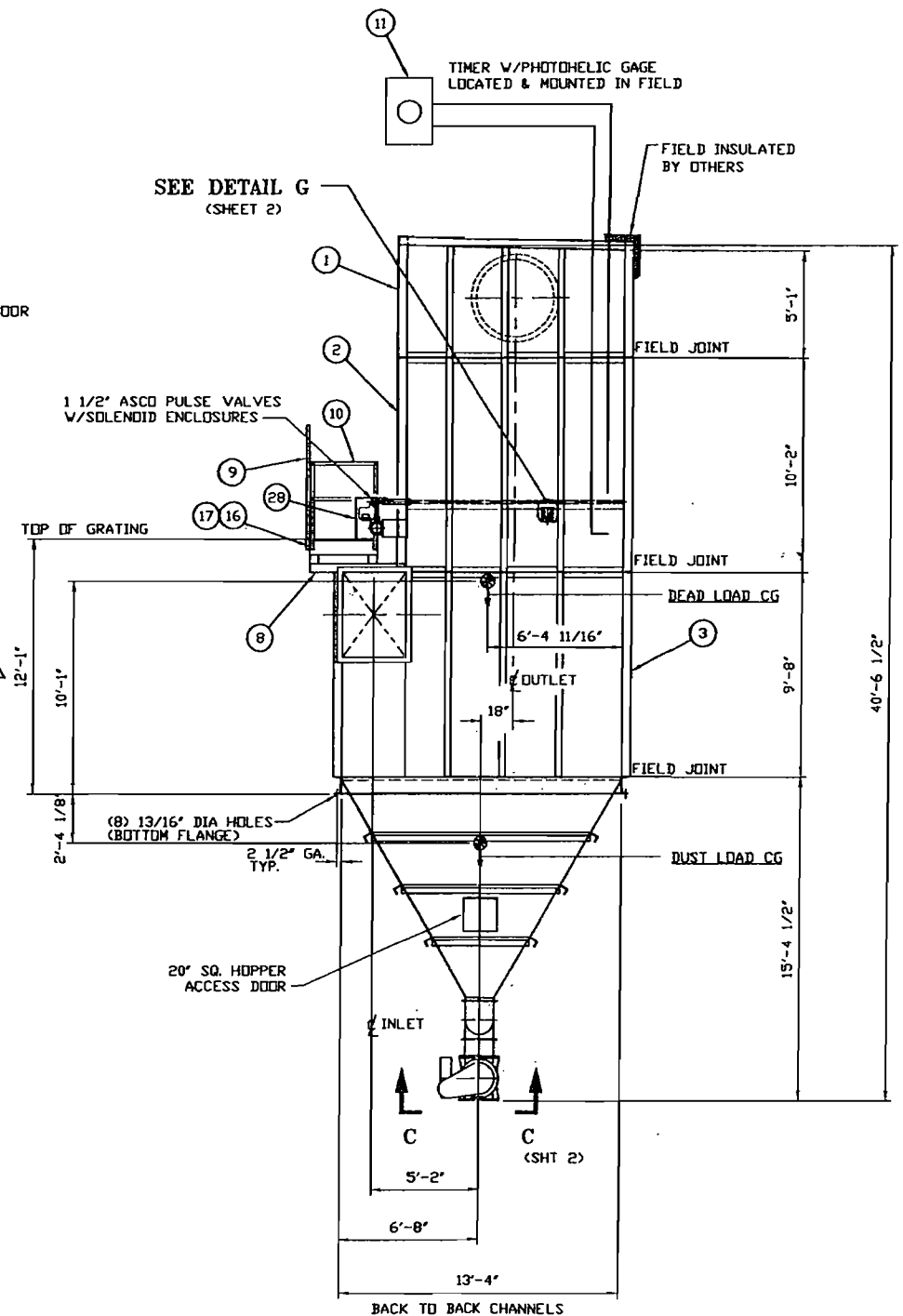
EU ID#	EU Source	BF Unit ID
030	Finish Mill #6	536.BF340
Control Equipment Make	Model #	# of Bags
Fuller	2M690S12(6)	34683
CFM	Cloth Area - sqft	Air/Cloth Ratio - Vent AGL
97300		110

EU ID#	EU Source	BF Unit ID
030	Finish Mill #6	536.BF500
Control Equipment Make	Model #	# of Bags
Fuller	360S12(6)	6786
CFM	Cloth Area - sqft	Air/Cloth Ratio - Vent AGL
25900		110



ERECTOR NOTES

1. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.
2. DURING ERECTION ALL POSSIBLE AIR LEAK SOURCES BETWEEN ADJACENT COMPARTMENTS, MANIFOLDS OR TO OUTSIDE AIR MUST BE SEAL WELDED.
3. ERECTOR SHALL FURNISH AND INSTALL ALL NECESSARY STEEL PACKING, FILL PLATES, SEAL PLATES, BACK-UP BARS, ETC., AS REQUIRED FOR SEAL WELDING OF BAGHOUSE COMPONENTS



ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR	336-04-4-0166 00
2	1	UPPER MODULE ASSEMBLY	336-04-4-0179 00
3	1	INTERMEDIATE MODULE ASSEMBLY	336-04-4-0180 00
4	1	LOWER MODULE ASSEMBLY	336-04-4-0181 00
5	1	INLET MANIFOLD	336-04-4-1504 01
6	1	INLET MANIFOLD END COVER	336-04-4-1504 02
7	1	INLET MANIFOLD END COVER	336-04-4-1504 03
8	1	TROUGH HOPPER ASSEMBLY	336-04-4-1403 01
9	1	ACCESS PLATFORM	336-04-4-0509 01
10	1	HANDRAIL	336-04-4-0711 01
11	2	HANDRAIL	336-04-4-0711 02
12	1	TIMER W/PHOTOHELIC GAGE	
13	2	PRESSURE GAGE, 1/4" NPT BOTTOM CONN 0-160 PSI	
14	2	3 1/2" DIAL FACE, BLK. STL. CASE	
15	2	MARSHALLTOWN FIG. 23 OR EQUAL	
16	2	PIPE, 1/4" SCH 40 X 13" LG. ASTH-A53 GR. "B"	
17	2	COUPLING, 1/4" NPT 150# M.L.	
18	2	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL	
19	100	CAPSCREW, HEX HD 5/8-11 NC X 1 1/2" LG. ZINC PL	
20	100	NUT, HEX 5/8-11 NC ZINC PL	
21	2	12 OZ. TUBE SILICONE RUBBER SEALANT EQUIVALENT	040-00-4-0009 02
22	1	TO GENERAL ELECTRIC RTV-102 OR DOW-732	
23	1	700M METRIC FEEDER	
24	1	16" SCREW CONVEYOR	
25	1	SPOOL PIECE	336-04-3-2210 01
26	360	BAG, 6" DIA X 12'-0" LG.	314-96-4-0004 06
27	360	BAG CAGE, 6" DIA X 12'-0" LG.	336-96-4-1904 01
28	8	CAPSCREW, HEX HD 7/8-9 NC X 2" LG. ZINC PL	
29	50	NUT, HEX 7/8-9NC ZINC PL	
30	50	CAPSCREW, HEX HD 1/2"-13 NC X 2" LG. ZINC PL	
31	50	NUT, HEX 1/2"-13NC ZINC PL	
32	1	LIFT-OFF STEP	336-99-3-2218 01
33	20	CAPSCREW, HEX HD 3/8"-16 NC X 2" LG. ZINC PL	
34	20	NUT, HEX 3/8"-16NC ZINC PL	
35	1	HANDRAIL	336-04-4-0711 03

DESIGN DATA	
MODEL	360S12(6)
APPLICATION	FINISH MILL VENT
GAS VOLUME	25,900 ACFM
DESIGN TEMPERATURE	275°F
FILTER MEDIA	POLYESTER
BAG SIZE	6" DIA X 12'-0" LG
NUMBER OF BAGS	360
DESIGN PRESSURE	-20" W.G.
DUST DISCHARGE	488 FT ³ /HR
DUST DENSITY	70#/FT ³ FOR VOLUMETRIC SIZING 75#/FT ³ FOR DRIVE DENSITY
COMPRESSED AIR CONSUMPTION	NORMAL/MAX 60/120 SCFM

DESIGN NOTE:
ANY ACCESS LADDERS, PLATFORMS, STAIRS, TOWERS AND DUCT SUPPORTS 'NOT SHOWN' MUST BE SUPPORTED ON INDEPENDENT STRUCTURES. PROVISION FOR ADDITIONAL LOADS HAVE NOT BEEN INCLUDED IN THE DESIGN OF THIS BAG HOUSE STRUCTURE.

TARMAC AMERICA	
CONTRACT NO. 04-20030-336	
DOCUMENT DWG NO. 60010978	
ITEM NUMBERS	
536.BF500	- BAGHOUSE
536.SC501	- SCREW CONVEYOR
536.RF502	- ROTARY FEEDER

REV. NO.	DR.	CHK.	APP.	DATE	ZONE	MICRO	ADDED 12'-1" DIMENSION IN VIEW B-B
1	RJK	NC	RK	15JUL04	210CT04	20DEC04	
2	RJK	NC	RK				REVISED SCREW CONVEYOR LENGTH 17 1/2" WAS 5'-1 1/2"
3	RJK	NC	RK				ADDED ITEM NUMBERS, BILL OF MATERIAL & REVISED TO SUIT
							THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLSMITH AIRTECH INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLSMITH AIRTECH



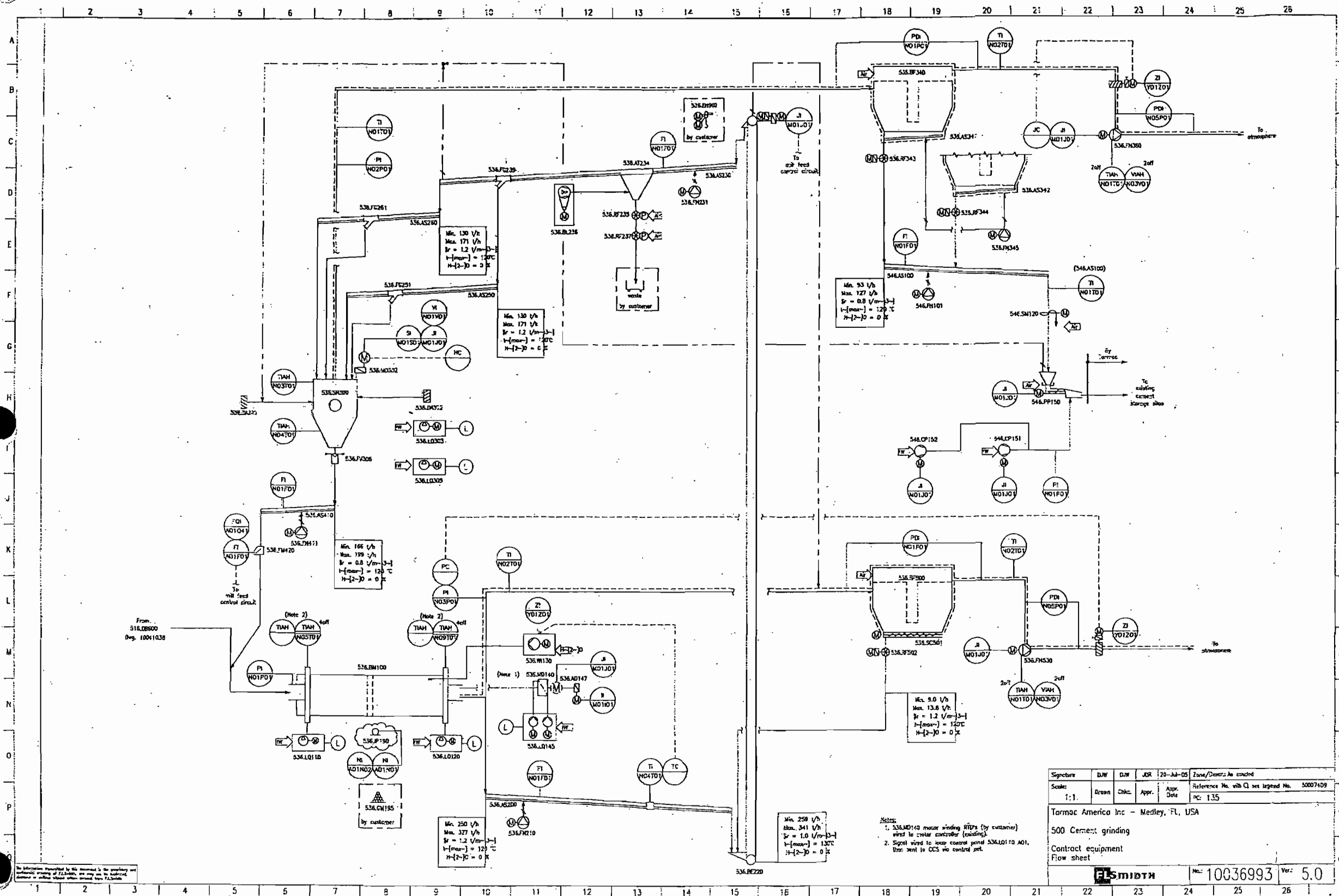
FLSMITH AIRTECH

Bethlehem, Pa. 18017 USA

DR. RJK	GENERAL ARRANGEMENT														
CHK. MC	MODEL SIZE 360S12(6)														
APP. RK	JET PULSE COLLECTOR														
DATE 8JUN04	TARMAC AMERICA INC. MEDLEY, FL														
SCALE 1/4"=12"	DRAWING NUMBER										REV.	SHEET			
MICRO	3	3	6	-	0	4	-	4	-	0	1	6	6	3	NO. 1
															OF 2

Unit	Manufacturer	Model	Flow Rate		Cloth Area sq.ft.	Air:Cloth	Vent AGL (ft)	Temp F
			acfm	dscfm				
533.BF340	Fuller	1110s12(6)	77,800	65,307	20,923	3.7		169
F313			8,000					
F633	Norblo	HE-66	1,500		1,040	1.4		
F730 (F728)	Fuller	6 Zone #96	20,000		6,028		150	
536.BF340	Fuller	2M690S12(6)	97,300	80,905			110	
563.BF500	Fuller	360S12(6)	25,900	21,536			110	
516BF510	FLS Airtech	36DS8	1,950				35	

CHARLES ROBERTSON e-mail dated 1/30/06



Signature	D/W	D/W	JCR	20-Jul-05	Zone/Client: As enclosed
Scale:	1:1	Drawn	Chk'd	Appr.	Appr. Date
Tarmac America Inc - Medley, FL, USA					
500 Cement grinding					
Contract equipment					
Flow sheet					
E Smith				10036993	Ver: 5.0

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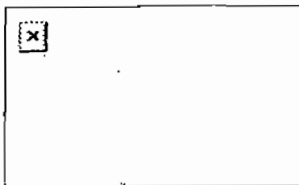
- Notes:
1. 536.00000 motor winding RTDs (by customer) wired to motor controller (existing).
 2. Signal wired to local control panel 536.00000 A01. User sent to CCS via control net.

Buff, Dave

From: SCOTT QUAAS [quaas_vt@verizon.net]
Sent: Tuesday, August 30, 2005 1:50 PM
To: Buff, Dave
Cc: Terry Lancaster
Subject: Titan Baghouse Clarification & Other Items
Attachments: Notebook.jpg

Dave . . .

I have responded to each item in Teresa's email request - see below:



----- Original Message -----

From: Buff, Dave
To: scottquaas@verizon.net
Sent: Tuesday, August 23, 2005 3:24 PM
Subject: FW: Titan Baghouse clarification & other items

Scott, below is the information we have been trying to track down with you. On the VE tests, we know the answer on F603, F604 and F605, since you indicated those no longer are used. Also I believe the answer on the Packhouse bughouses is that they were not yet installed at the time of the VE tests-correct? Please look at the others and the other questions to see if we can get the answers. Thanks.

David A. Buff, P.E., Q. E. P.
Golder Associates Inc.
Phone: (352)336-5600 x 545
Fax: (352)336-6603 Mobile: (325)514-5600
E-Mail: dave_buff@golder.com

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ATTORNEY/CLIENT COMMUNICATION OR WORK PRODUCT

9/6/2005

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From: Heron, Teresa [mailto:Teresa.Heron@dep.state.fl.us]

Sent: Thursday, August 04, 2005 2:54 PM

To: Buff, Dave

Subject: Titan Baghouse clarification & other items

David: Below few questions:

1. In your letter of June 22, 2005 (Visible Emissions Observations Summary), I did not find V.E test results for the following baghouses, please explain.

Finish Mill No. 3: Baghouse 533.BF340 [new OSEPA system; baghouse not yet installed to complete VEO]

Finish Mill No. 4: Baghouse F-605 [baghouse removed; ducted to F432; see VEO for F432]

Finish Mill No. 4: Baghouse F-603 [baghouse removed; ducted to F432; see VEO for F432]

Finish Mill No. 4: Baghouse F-604 [baghouse removed; ducted to F432; see VEO for F432]

Finish Mill No.6: Baghouse 536.BF340 [new system; not yet installed to complete VEO]

Finish Mill No.6: Baghouse 536.BF500 [new system; not yet installed to complete VEO]

Coal Mill: Baghouse 461-BF300 [unit vents to main stack; VEO completed on main stack during initial compliance test]

Cement Packhouse: Baghouse BF-120 [new system; not yet installed to complete VEO]

Cement Packhouse: Baghouse BF-200 [new system; not yet installed to

9/6/2005

complete VEO]

Cement Packhouse: Baghouse BF-400 [new system; not yet installed to complete VEO]

I did not see either the kiln/cooler/raw mill/coal main stack Baghouse 331.BF200, Has an opacity test or other pollutants tests been performed routing the coal mill? **[VEO completed on main stack during initial compliance test]**

2.

For Finish Mill No. 6, which is the correct information (manufacturer, model, No.)?

Finish Mill No. 6 <i>Main</i>	536.BF340 FLS Airtech 2M690S12 (6)	0.0095 (gr/dscf)	97,300 (80,905 dscfm)	34683	2.8	6.59	28.86
Finish Mill No. 6 <i>Sweep</i>	536.BF500 FLS Airtech 360S12(6)	0.0095 (gr/dscf)	25,900 (21,536 dscfm)	6786	3.8	1.75	7.68

I believe Scott Quaas sent this information during the processing of project 0250020-016-AC, but the new submittal appears to have the old information.

[the above information is correct]

OR

Application of April 18, 2005

Finish Mill No. 6 - <i>Main</i>		
Baghouse I.D. 531.BF01		
Finish Mill No. 6 - <i>Sweep</i>		
Baghouse I.D. 531.BF02		

9/6/2005

3.

Please clarify the following:

Information missing about the following Raw Mill/Pyroprocessing baghouse :

Kiln Dust	331.BF645	0.0095	3,500	Cloth area	Air to Cloth area ?
<i>Truck Loadout</i>	MLV54H		(2,910)	?	

Your response of July 22, 2005: Table of Visible Emissions Observation Summary lists this baghouse as *"not operating"*.

Will this baghouse be part of the current project? Please explain.

[this unit is part of the current project; the baghouse is only used for the loadout of CKD - there has not been any CKD wasted for the unit to operate]

4.

What is the annual (2001/2005) Cement production of Titan in project 0250020-010-AC?

[Construction permit 0250020-010-AC was for the construction of the dry process system that was completed and placed into operation on June 1, 2004. It replaced construction permit 0250020-008-AC and allowed for an increase in annual clinker production. All annual clinker production prior to startup of the new system was from the wet process kilns 2 & 3. There was an overlap of operations for PK5 and kiln 3 after the June startup and is reflected in the annul production of 2004.]

[all values in tons clinker]

[2000 - 737,926]

[2001 - 769,774]

[2002 - 806,805]

[2003 - 742,698]

[2004 - 1,105,552 (328,734 from K2&3; 776,818 from PK5)]

[2005 - NA]

What was the annual (1999) Cement production of Titan in project 0250020-008-AC?

[Construction permit 0250020-008-AC was for the construction of a new dry process system. No construction was completed under the permit and the permit was replaced by construction permit 0250020-010-AC. The annual clinker production for 1999 was from the wet process kilns 2 & 3.]

[all values in tons clinker]
[1999 - 764,486]

Thanks,

Teresa Heron, Engineer

Permitting South Section

Bureau of Air Regulation

Phone 850/921-9529

teresa.heron@dep.state.fl.us

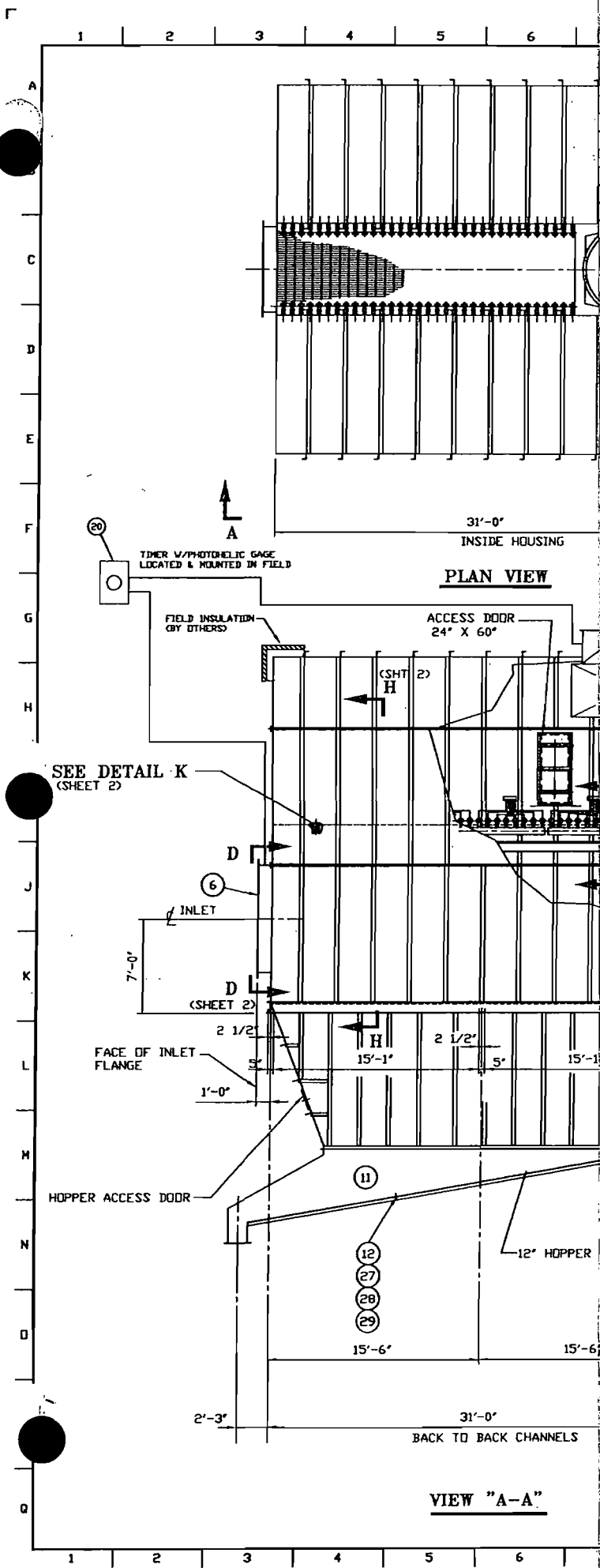
FINISH MILL #6
536.BF340



Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
030	Finish Mill #6	536.BF340	
Control Equipment Make	Model #	# of Bags	
Fuller	2M690S12(6)	34683	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
97300			110

EU ID#	EU Source	BF Unit ID	
030	Finish Mill #6	536.BF500	
Control Equipment Make	Model #	# of Bags	
Fuller	360S12(6)	6786	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
25900			110



ITEM ID (PART NUMBER)	DESCRIPTION
336-04-4-0167 00	JET PULSE COLLECTOR
336-04-4-0185 00	INTERMEDIATE HOUSING ASSEMBLY
336-04-4-0186 00	LOWER HOUSING ASSEMBLY
336-04-4-0183 00	UPPER HOUSING ASSEMBLY
336-04-4-0184 00	UPPER HOUSING ASSEMBLY
336-04-4-1505 01	INLET MANIFOLD TOP PLATE
336-04-4-1506 01	INLET MANIFOLD END COVER - FLANGED
336-04-4-1506 02	INLET MANIFOLD END COVER
336-04-4-0510 01	PLATFORM
336-04-4-0510 02	HANDRAIL
336-04-4-1404 00	TROUGH HOPPER ASSEMBLY
336-04-4-1405 01	AIRSLIDE ENCLOSURE
336-04-4-2212 01	HOPPER AIRSLIDE
336-04-4-1510 01	OUTLET MANIFOLD
336-04-4-1510 02	OUTLET STUB
ASTM-A575 M-1020	BAR 3/16" X 8" X 31'-0" LG.
ASTM-A36	ANGLE 3" X 3" X 1/4" X 3" LG.
314-96-4-0004 01	BAG 6" DIA. X 12'-0" LG.
336-96-4-1904 01	BAG CAGE
325-75-2-2003 00	MAGNETIC GAUGE & PIPING ASSEMBLY
	TIMER W/PHOTOHELIC GAGE
500-01-0-6007 00	PRESSURE GAUGE, 1/4" NPT BOTTOM CONN. 0-160 PSI
	3 1/2" DIAL FACE, BLK. STL. CASE
000-00-7-4150 00	PIPE, 1/4" SCH. 40 X 13" LG. T.B.E.
000-00-5-3095 00	COUPLING, 1/4" NPT 150#
000-00-5-0885 00	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL
ASTM-A307	HEX HD. BOLT, 5/8"-11NC X 2" LG.
ASTM-A307	HEX NUT, 5/8"-11NC
ASTM-A307	HEX HD. BOLT, 1/2"-13NC X 1 1/2" LG.
ASTM-A307	HEX NUT, 1/2"-13NC
040-00-4-0009 02	12 OZ. TUBE SILICONE RUBBER SEALANT EQUIVALENT
	TO GENERAL ELECTRIC RTV-102 OR DOV-732
ASTM-A575 M-1020	BAR 2" X 3/16" X 50 LIN. FT.

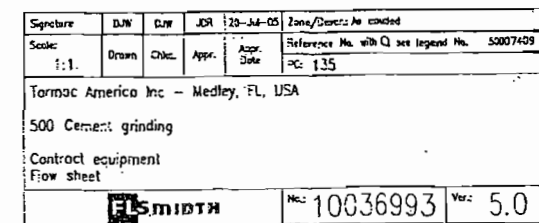
REV. NO.	DR.	CHK.	APPR.	DATE	ZONE	MICRO	ADDED 12'-7" DIMENSION IN VIEW B-B
2	RJK	NC	RK	8SEP04	20DEC04		
1	RJK	NC	RK	8SEP04	20DEC04		REVISED PER MARKED UP APPROVAL DWG ADDED ITEM NUMBERS, BILL OF MATERIAL AND REVISED TO SUIT, ADDED SHEET 3 SEE REVISION 1 SHEET 2
THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLSMITH AIRTECH INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLSMITH AIRTECH							

Bethlehem, Pa. 18017 USA

DR. RJK	GENERAL ARRANGEMENT	
CHK. NC	MODEL SIZE 2M690S12X6	
APPR. RK	JET PULSE COLLECTOR	
DATE 8 JUN 04	TARMAC AMERICA INC.	MEDELY, FL
SCALE 3/16"=1'	DRAWING NUMBER	REV. SHEET
MICRO	336-04-4-0167	2 1 OF 3

Unit	Manufacturer	Model	Flow Rate		Cloth Area sq.ft.	Air:Cloth	Vent AGL (ft)	Temp F
			acfm	dscfm				
533.BF340	Fuller	1110s12(6)	77,800	65,307	20,923	3.7		169
F313			8,000					
F633	Norblo	HE-66	1,500		1,040	1.4		
F730 (F728)	Fuller	6 Zone #96	20,000		6,028		150	
536.BF340	Fuller	2M690S12(6)	97,300	80,905			110	
563.BF500	Fuller	360S12(6)	25,900	21,536			110	
516BF510	FLS Airtech	36DS8	1,950				35	

CHARLES ROBERTSON e-mail dated 1/30/06



Buff, Dave

From: SCOTT QUAAS [quaas_vt@verizon.net]
Sent: Tuesday, August 30, 2005 1:50 PM
To: Buff, Dave
Cc: Terry Lancaster
Subject: Titan Baghouse Clarification & Other Items
Attachments: Notebook.jpg

Dave . . .

I have responded to each item in Teresa's email request - see below:



----- Original Message -----

From: Buff, Dave
To: scottquaas@verizon.net
Sent: Tuesday, August 23, 2005 3:24 PM
Subject: FW: Titan Baghouse clarification & other items

Scott, below is the information we have been trying to track down with you. On the VE tests, we know the answer on F603, F604 and F605, since you indicated those no longer are used. Also I believe the answer on the Packhouse bughouses is that they were not yet installed at the time of the VE tests- correct? Please look at the others and the other questions to see if we can get the answers. Thanks.

David A. Buff, P.E., Q. E. P.
Golder Associates Inc.
Phone: (352)336-5600 x 545
Fax: (352)336-6603 Mobile: (325)514-5600
E-Mail: dave_buff@golder.com

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9/6/2005

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From: Heron, Teresa [mailto:Teresa.Heron@dep.state.fl.us]

Sent: Thursday, August 04, 2005 2:54 PM

To: Buff, Dave

Subject: Titan Baghouse clarification & other items

David: Below few questions:

1. In your letter of June 22, 2005 (Visible Emissions Observations Summary), I did not find V.E test results for the following baghouses, please explain.

Finish Mill No. 3: Baghouse 533.BF340 [new OSEPA system; baghouse not yet installed to complete VEO]

Finish Mill No. 4: Baghouse F-605 [baghouse removed; ducted to F432; see VEO for F432]

Finish Mill No. 4: Baghouse F-603 [baghouse removed; ducted to F432; see VEO for F432]

Finish Mill No. 4: Baghouse F-604 [baghouse removed; ducted to F432; see VEO for F432]

Finish Mill No.6: Baghouse 536.BF340 [new system; not yet installed to complete VEO]

Finish Mill No.6: Baghouse 536.BF500 [new system; not yet installed to complete VEO]

Coal Mill: Baghouse 461-BF300 [unit vents to main stack; VEO completed on main stack during initial compliance test]

Cement Packhouse: Baghouse BF-120 [new system; not yet installed to complete VEO]

Cement Packhouse: Baghouse BF-200 [new system; not yet installed to

complete VEO]

Cement Packhouse: Baghouse BF-400 [new system; not yet installed to complete VEO]

I did not see either the kiln/cooler/raw mill/coal main stack Baghouse 331.BF200, Has an opacity test or other pollutants tests been performed routing the coal mill? **[VEO completed on main stack during initial compliance test]**

2.

For Finish Mill No. 6, which is the correct information (manufacturer, model, No.)?

Finish Mill No. 6 <i>Main</i>	536.BF340 FLS Airtech 2M690S12 (6)	0.0095 (gr/dscf)	97,300 (80,905 dscfm)	34683	2.8	6.59	28.86
Finish Mill No. 6 <i>Sweep</i>	536.BF500 FLS Airtech 360S12(6)	0.0095 (gr/dscf)	25,900 (21,536 dscfm)	6786	3.8	1.75	7.68

I believe Scott Quaas sent this information during the processing of project 0250020-016-AC, but the new submittal appears to have the old information.

[the above information is correct]

OR

Application of April 18, 2005

Finish Mill No. 6 - <i>Main</i>		
Baghouse I.D. 531.BF01		
Finish Mill No. 6 - <i>Sweep</i>		
Baghouse I.D. 531.BF02		

3.

Please clarify the following:

Information missing about the following Raw Mill/Pyroprocessing baghouse :

Kiln Dust	331.BF645	0.0095	3,500	Cloth area	Air to Cloth area ?
<i>Truck Loadout</i>	MLV54H		(2,910)	?	

Your response of July 22, 2005: Table of Visible Emissions Observation Summary lists this baghouse as *"not operating"*.

Will this baghouse be part of the current project? Please explain.

[this unit is part of the current project; the baghouse is only used for the loadout of CKD - there has not been any CKD wasted for the unit to operate]

4.

What is the annual (2001/2005) Cement production of Titan in project 0250020-010-AC?

[Construction permit 0250020-010-AC was for the construction of the dry process system that was completed and placed into operation on June 1, 2004. It replaced construction permit 0250020-008-AC and allowed for an increase in annual clinker production. All annual clinker production prior to startup of the new system was from the wet process kilns 2 & 3. There was an overlap of operations for PK5 and kiln 3 after the June startup and is reflected in the annual production of 2004.]

[all values in tons clinker]

[2000 - 737,926]

[2001 - 769,774]

[2002 - 806,805]

[2003 - 742,698]

[2004 - 1,105,552 (328,734 from K2&3; 776,818 from PK5)]

[2005 - NA]

What was the annual (1999) Cement production of Titan in project 0250020-008-AC?

[Construction permit 0250020-008-AC was for the construction of a new dry process system. No construction was completed under the permit and the permit was replaced by construction permit 0250020-010-AC. The annual clinker production for 1999 was from the wet process kilns 2 & 3.]

[all values in tons clinker]
[1999 - 764,486]

Thanks,

Teresa Heron, Engineer

Permitting South Section

Bureau of Air Regulation

Phone 850/921-9529

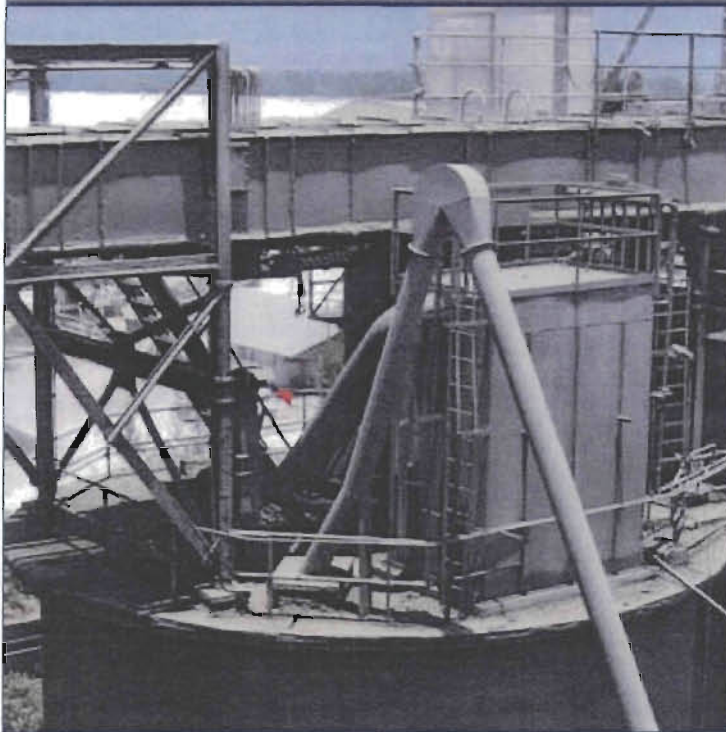
teresa.heron@dep.state.fl.us

RAW MILL & PYROPROCESSING
331.BF200



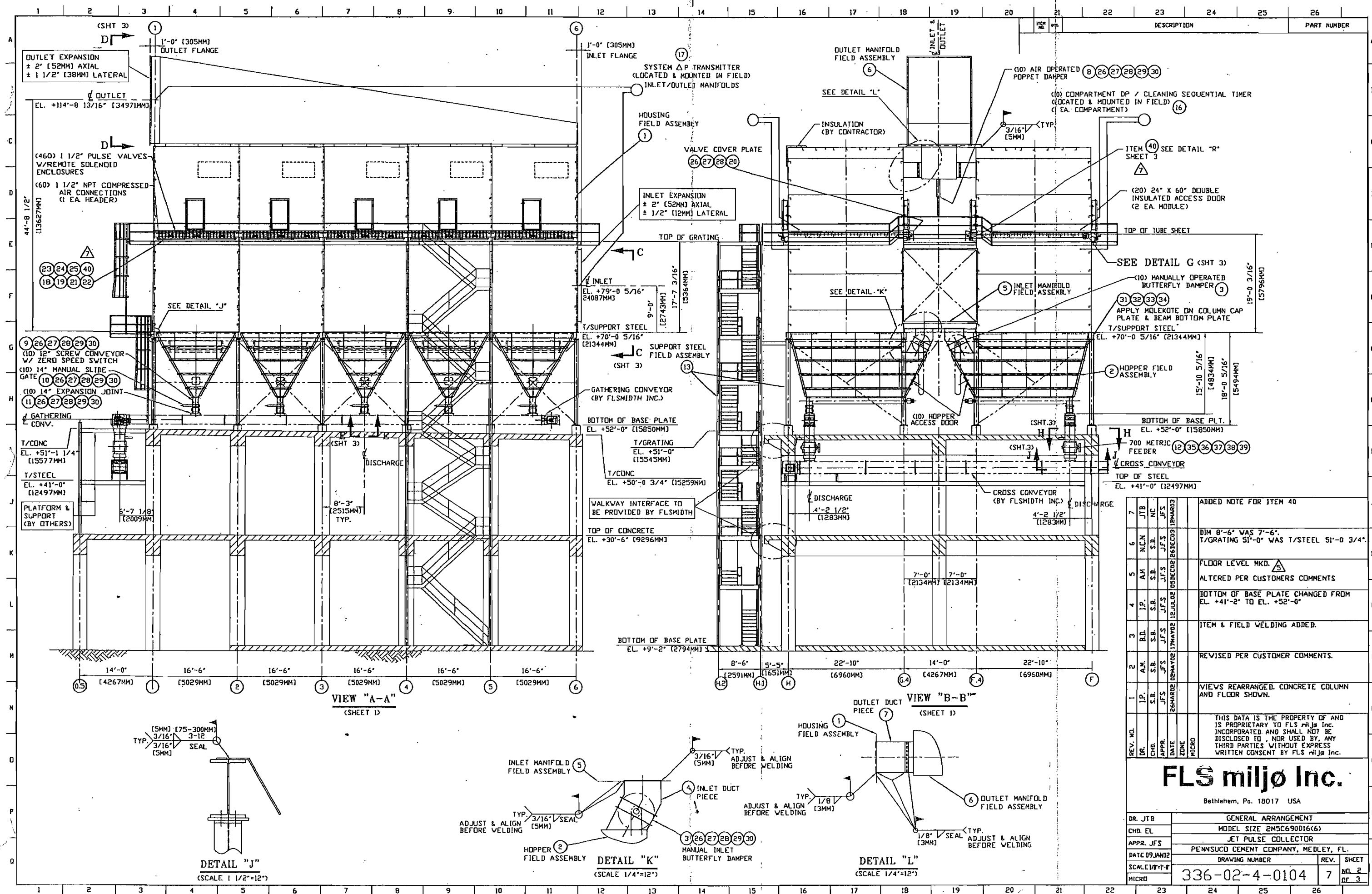
Pennsuco Cement

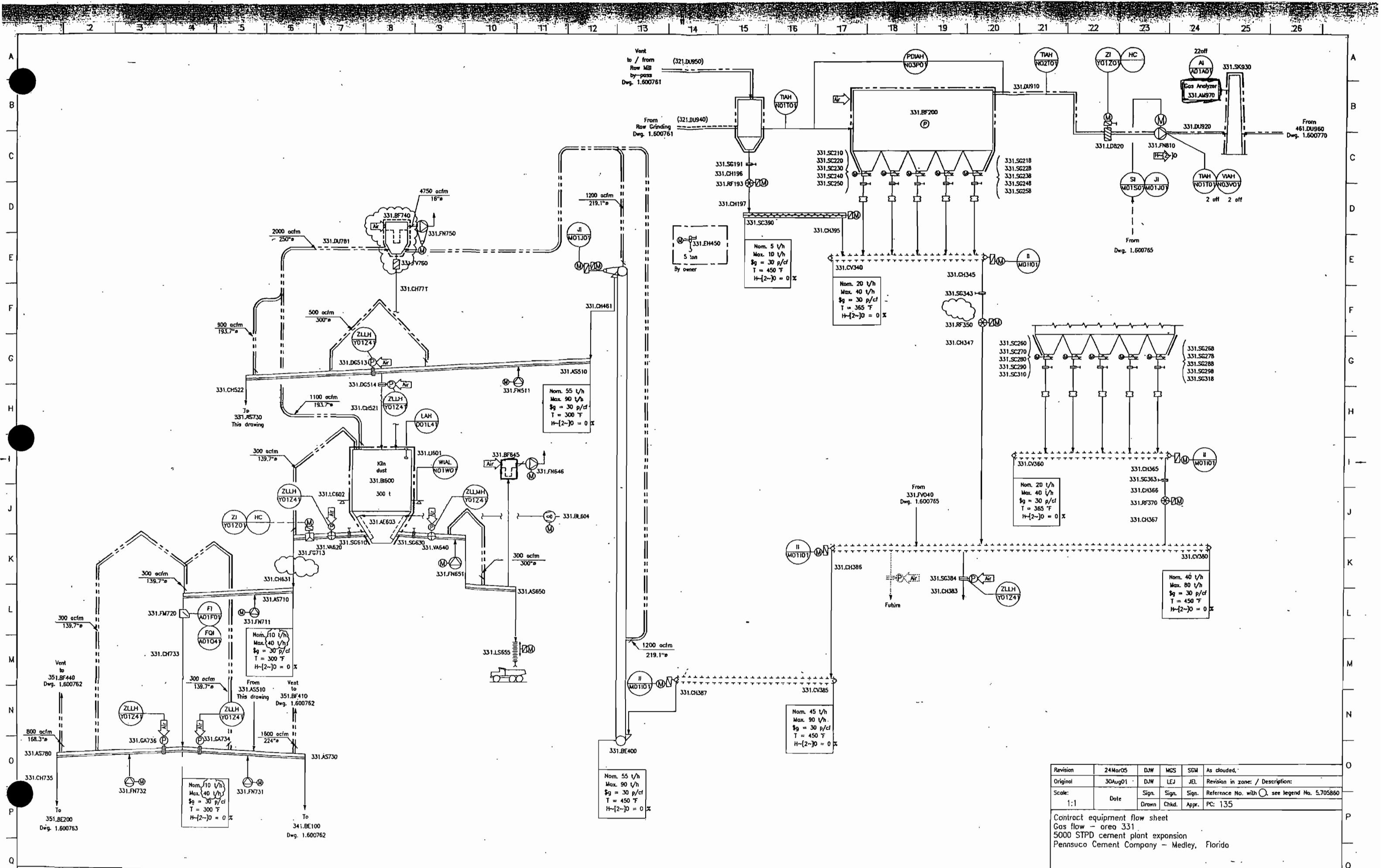
EU ID#	EU Source		BF Unit ID
027	Clinker Handling & Storage		K-633
Control Equipment Make	Model #	# of Bags	
Norblo	HE-66	22	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
1500	1040	1.4:1	130



EU ID#	EU Source		BF Unit ID
028	Pyroprocessing		331.BF200
Control Equipment Make	Model #	# of Bags	
FLS Airtech	2M5C690D16(16)	6900	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
605000	173397	3.0:1	420







Revision	24Mar05	DJW	MCS	SGM	As clouded.
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

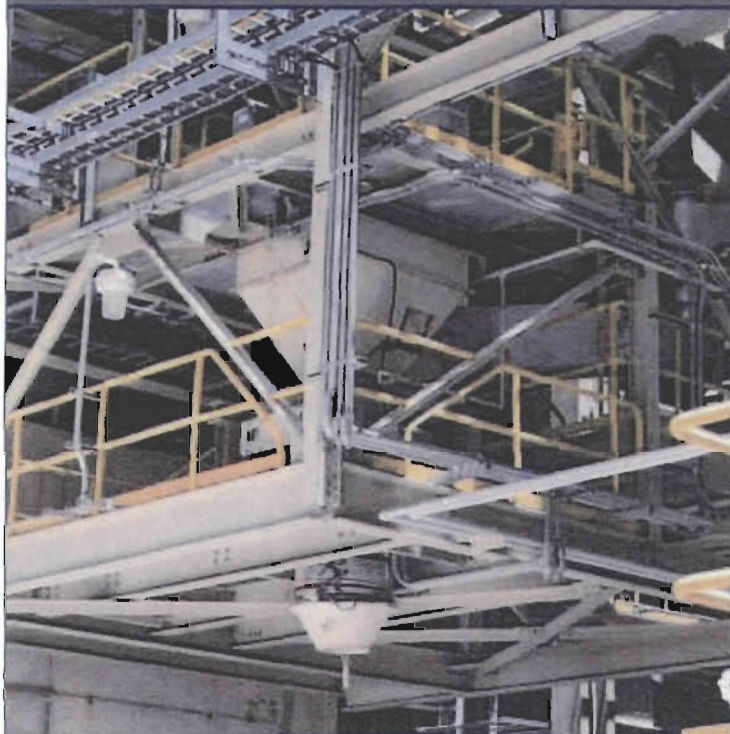
Contract equipment flow sheet
Gas flow - area 331
5000 STPD cement plant expansion
Pennsuco Cement Company - Medley, Florida

RAW MILL & PYROPROCESSING
331.BF740

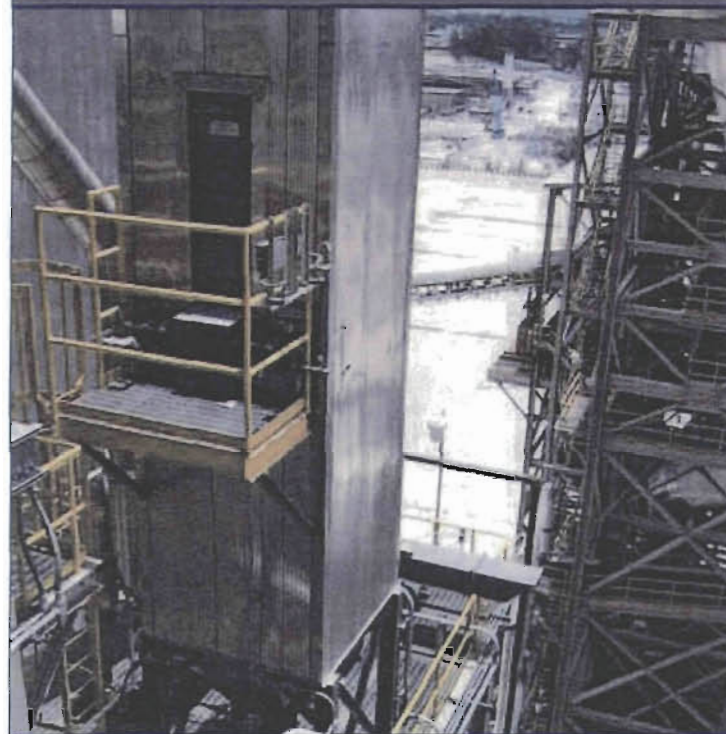


Pennsuco Cement

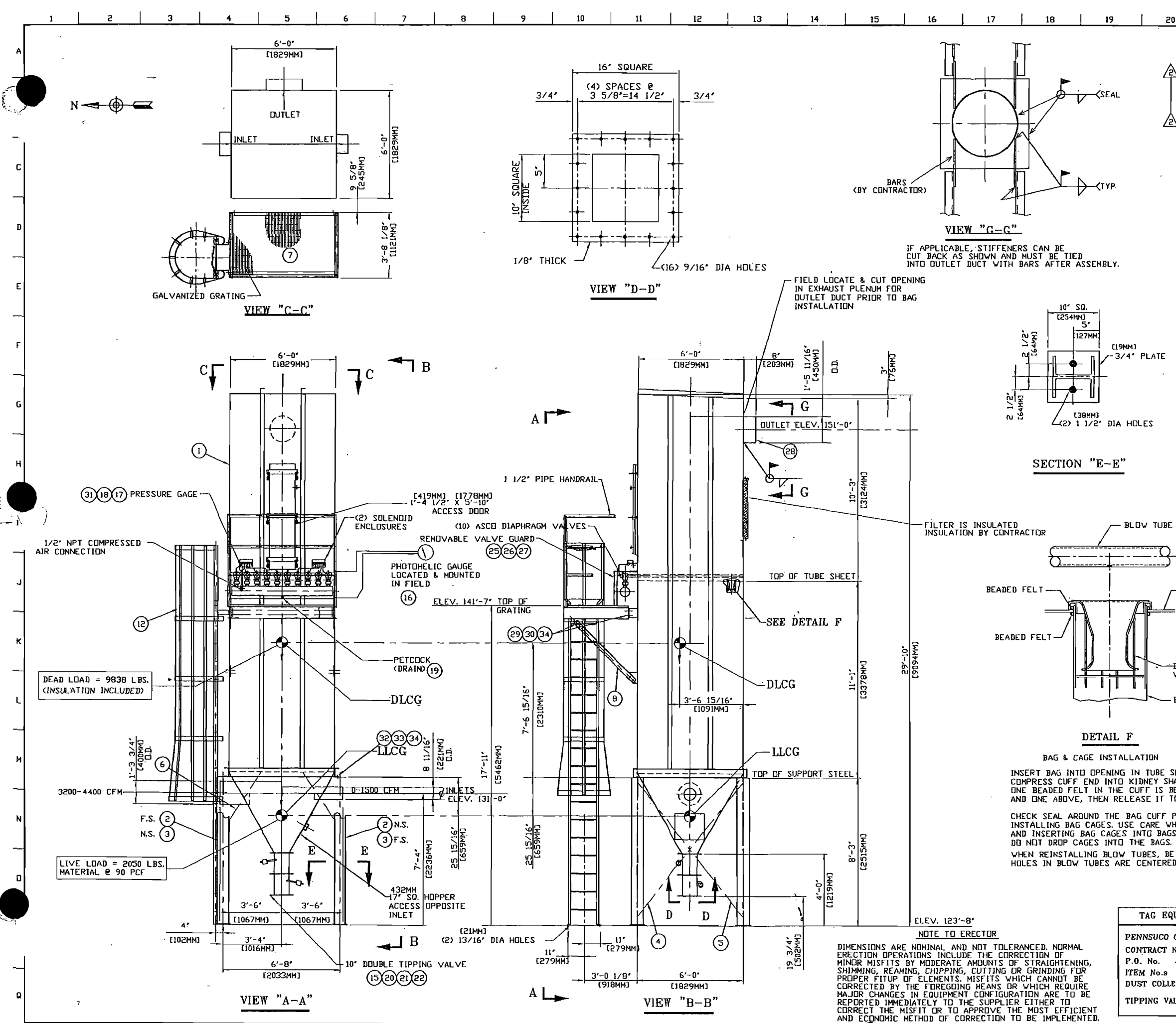
EU ID#	EU Source		BF Unit ID
028	Pyroprocessing		331.BF645
Control Equipment Make	Model #	# of Bags	
Midwest	MVL54H	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3500	1167	3.9:1	46

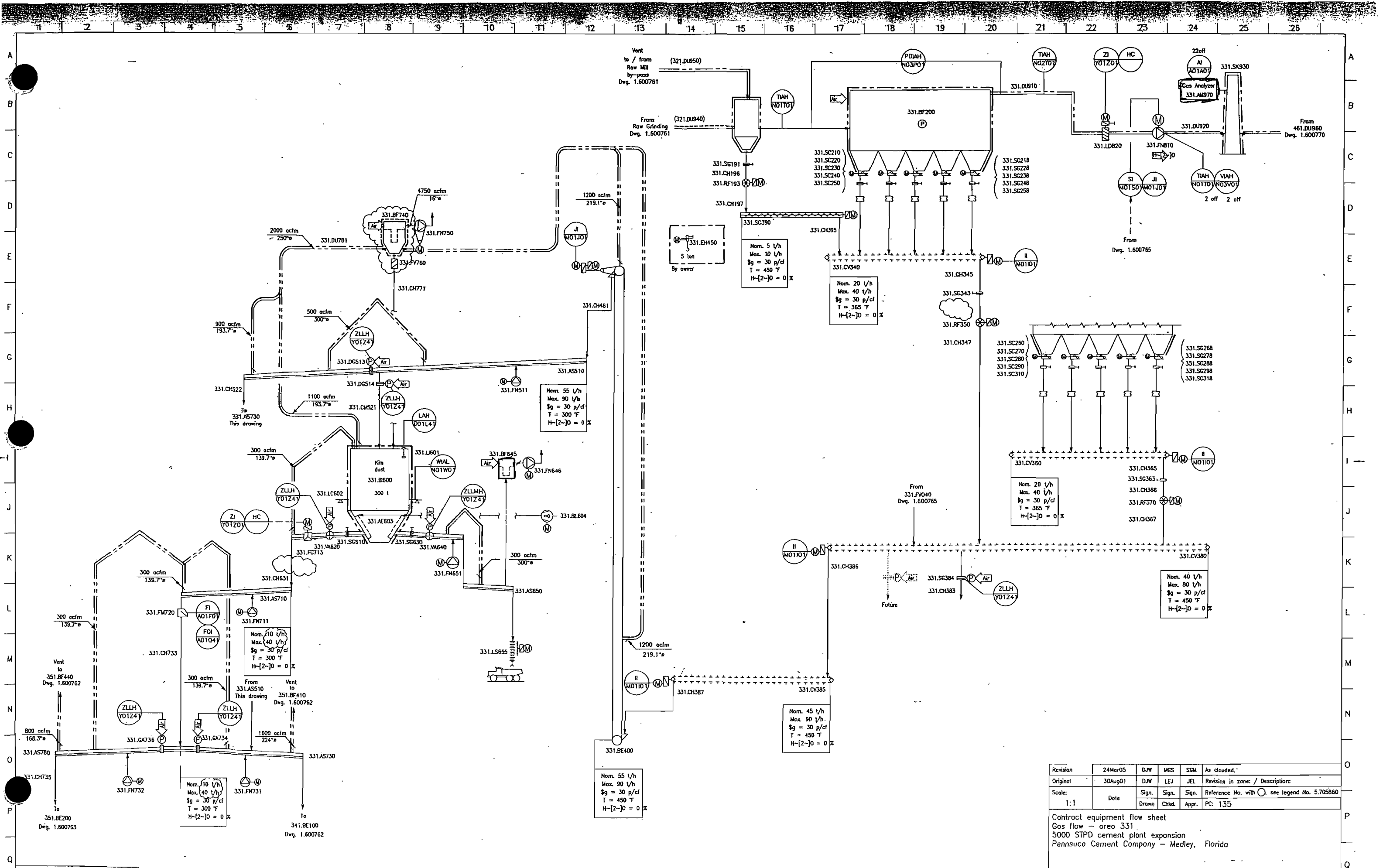


EU ID#	EU Source		BF Unit ID
028	Pyroprocessing		331.BF740
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4250	1302	3.3:1	125



Emission Control Equipment
Aug05





Revision	24Mar05	DJW	MCS	SDM	As clouded.
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

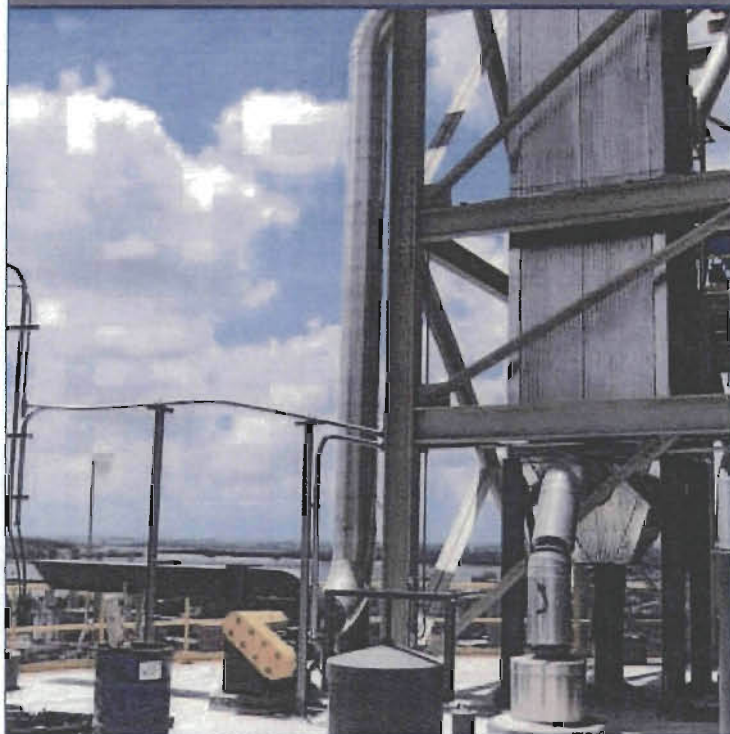
Contract equipment flow sheet
Gas flow - oreo 331
5000 STPD cement plant expansion
Pennsuco Cement Company - Medley, Florida

RAW MILL & PYROPROCESSING
341.BF350



Pennsuco Cement

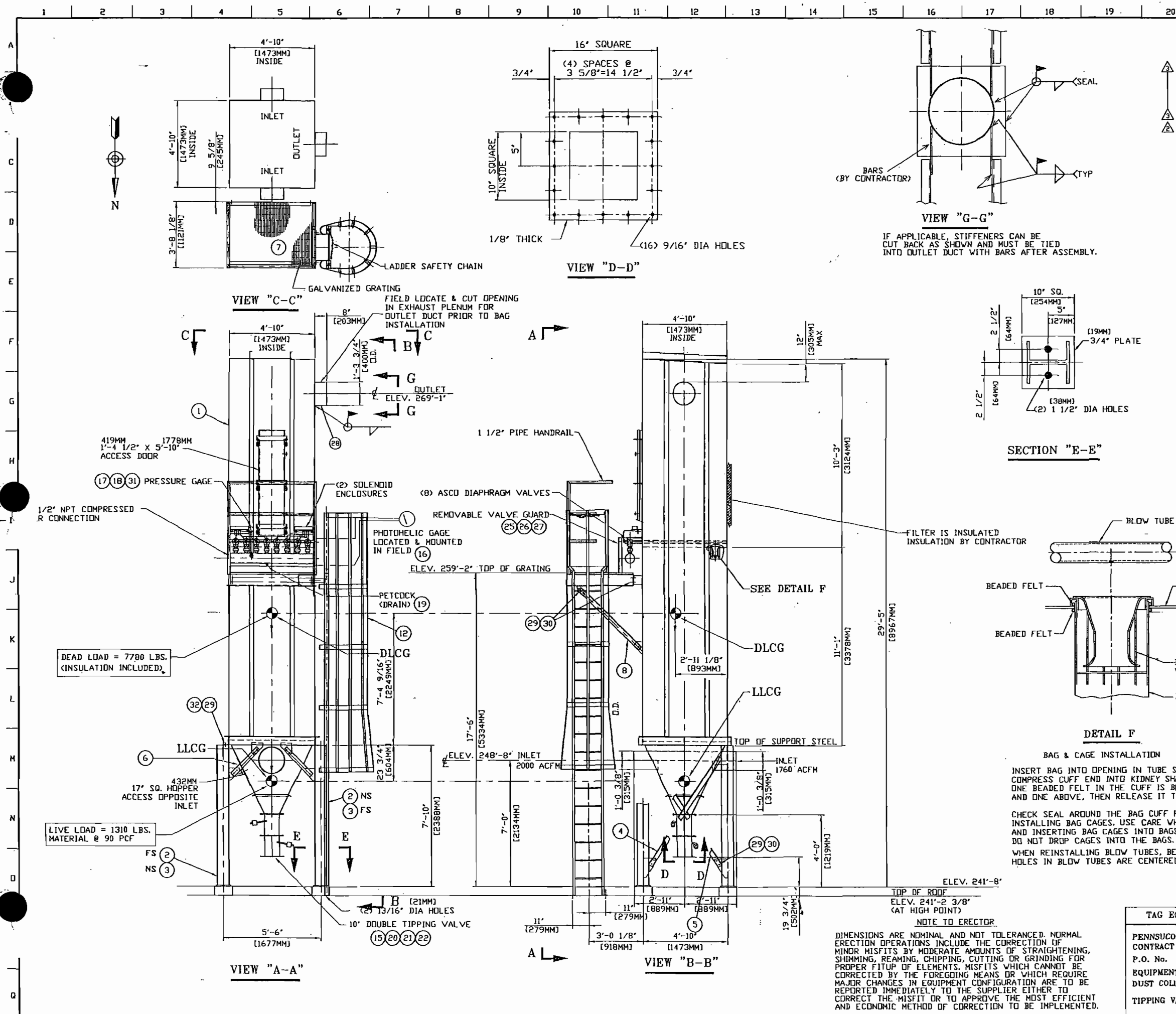
EU ID#	EU Source		BF Unit ID
028	Blending & Kiln Feed		341.BF350
Control Equipment Make	Model #	# of Bags	
FLS Airtech	64C10	64	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3760	833	4.5:1	241



EU ID#	EU Source		BF Unit ID
028	Blending & Kiln Feed		351.BF410
Control Equipment Make	Model #	# of Bags	
FLS Airtech	64C10	64	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4000	833	4.8:1	84

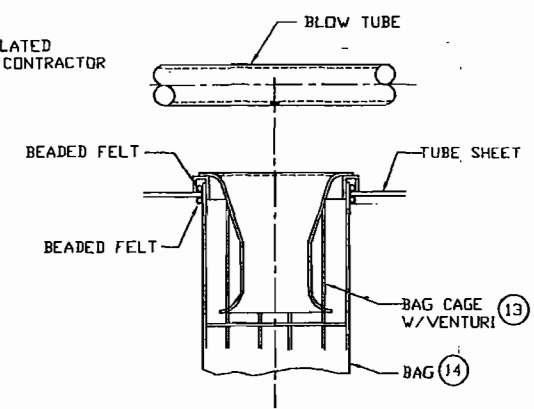


Emission Control Equipment
Aug05



ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
		JET PULSE COLLECTOR WT. 7800# [3547Kg]	336-02-4-0124 00
1	1	HOUSING & HOPPER ASSEMBLY	336-02-4-0184 00
2	2	COLUMN	336-02-4-0522 01
3	2	COLUMN	336-02-4-0522 02
4	2	BRACE	336-02-4-0522 03
5	2	BRACE	336-02-4-0522 04
6	4	BRACE	336-02-4-0522 05
7	1	PLATFORM WITH HANDRAIL	336-01-4-0537 01
8	2	PLATFORM BRACE	336-01-2-0557 01
9			
10			
11			
12	1	LADDER WITH CAGE	336-02-4-0708 01
13	64	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	64	BAG 5' DIA X 10'-0' LG SINGED POLYESTER	314-79-4-0001 54
15	1	10' DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
		3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
18	1	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
19	1	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	
20	1	1' X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176 51
21	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022 49
22	16	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
23			
24			
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
26	2	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
27	1	VALVE COVER PLATE	336-99-2-2011 01
28	1	OUTLET DUCT	336-02-3-1519 01
29	56	HEX HD BOLT 3/4" 10NC X 2" LG W/HEX NUT ASTM-A325	040-00-4-0022 26
30	48	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4" DIA ASTM F436	
33	1	WJ-10 TIMER (NEMA 4 ENCL.) (NOT SHOWN)	315-84-4-3019 00

DESIGN DATA	
1. MODEL	-- 84C10
2. APPLICATION	-- RAW MEAL
3. GAS VOLUME	-- 3760 ACFM
4. OPERATING TEMPERATURE	-- 178° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 64
9. TOTAL CLOTH AREA	-- 833 FT ²
10. AIR TO CLOTH RATIO	-- 4.51 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @90-100 PSIG



DETAIL F
BAG & CAGE INSTALLATION
 INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.
 CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.
 WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

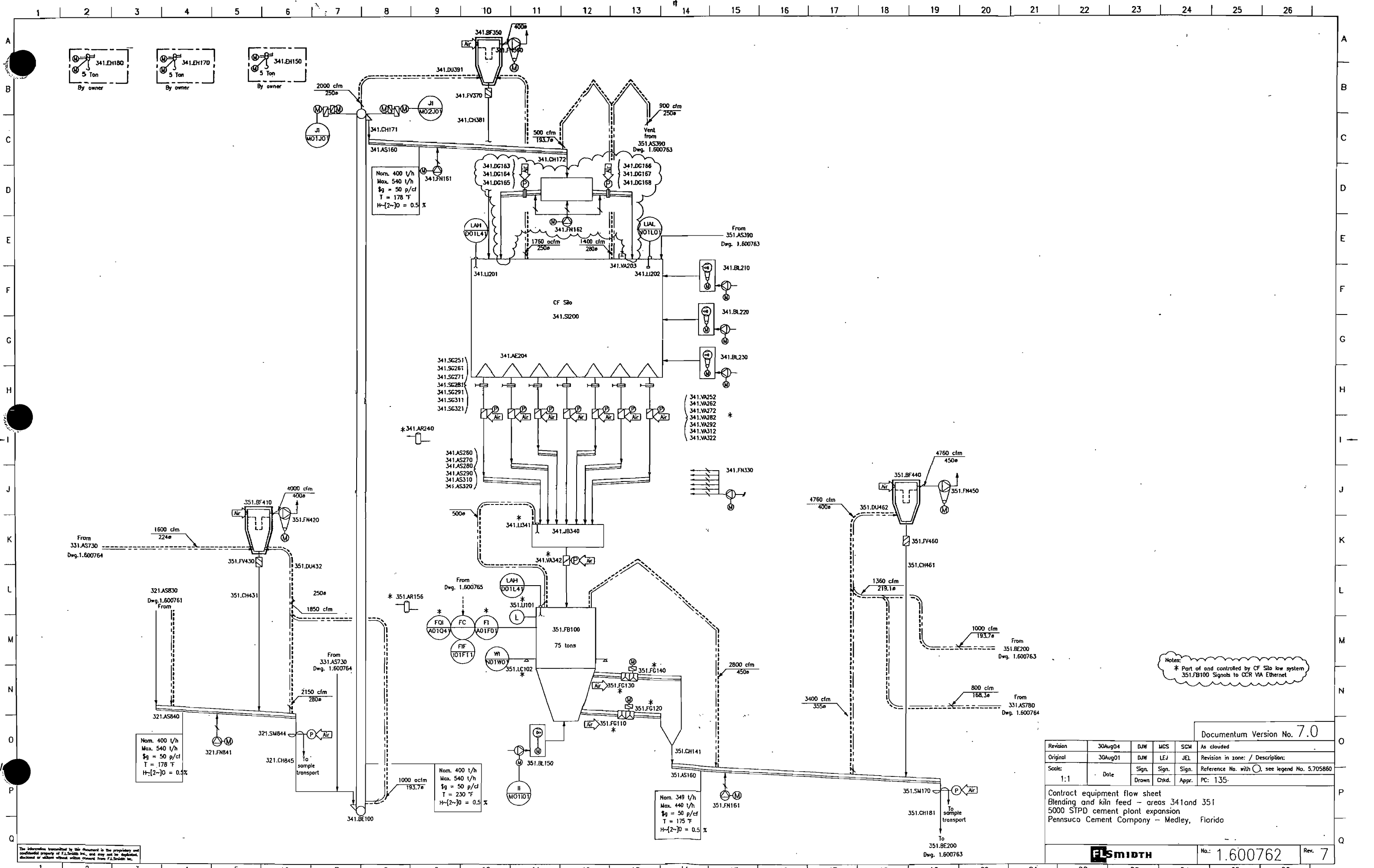
TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117	
EQUIPMENTS No.9	
DUST COLLECTOR - 341.BF350	
TIPPING VALVE - 341FV.370	

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	ITEM # 2 THRU 6 WERE 336-99-4-0504
3	VEH	EL	JFS	27AUG02			
2	VEH	EL	JFS	31JUL02			ITEM #7 WAS 336-01-4-0536-01 MOVED LADDER AND OUTLET
1	VEH	EL	JFS	17JUN02			REVISED PER CUSTOMER MARKED DRAWING DATED 10APR02 INLET WAS SINGLE 18" [457MM] OUTLET WAS 18" [457MM]
							THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.
 Bethlehem, Pa. 18017 USA

DR. RJK	GENERAL ARRANGEMENT	
CHD. EL	MODEL SIZE 64C10	
APPR. JFS	JET PULSE COLLECTOR	
DATE 25MAR02	PENNSUCO CEMENT COMPANY	MEDLEY, FL.
SCALE 3/8"=12"	DRAWING NUMBER	REV. SHEET
MICRO	336-02-4-0124	3

NOTE TO ERECTOR
 DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.



Notes:
* Part of and controlled by CF Silo low system
351.FB100 Signals to CCR VIA Ethernet

Documentum Version No. 7.0

Revision	30Aug04	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Date	Sign.	Sign.	Sign.
			Drawn	Chkd.	Appr.
					Reference No. with see legend No. 5.705B80
					PC: 135.

Contract equipment flow sheet
Blending and kiln feed - areas 341 and 351
5000 STPD cement plant expansion
Pennsuco Cement Company - Medley, Florida

FLSMIDTH

No.: 1.600762

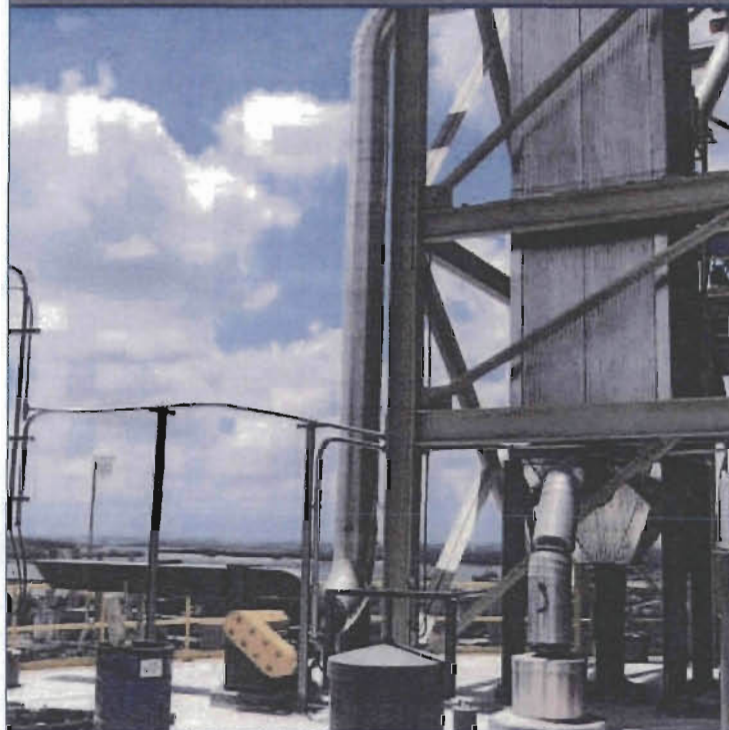
Rev. 7

RAW MILL & PYROPROCESSING
351.BF410



Pennsuco Cement

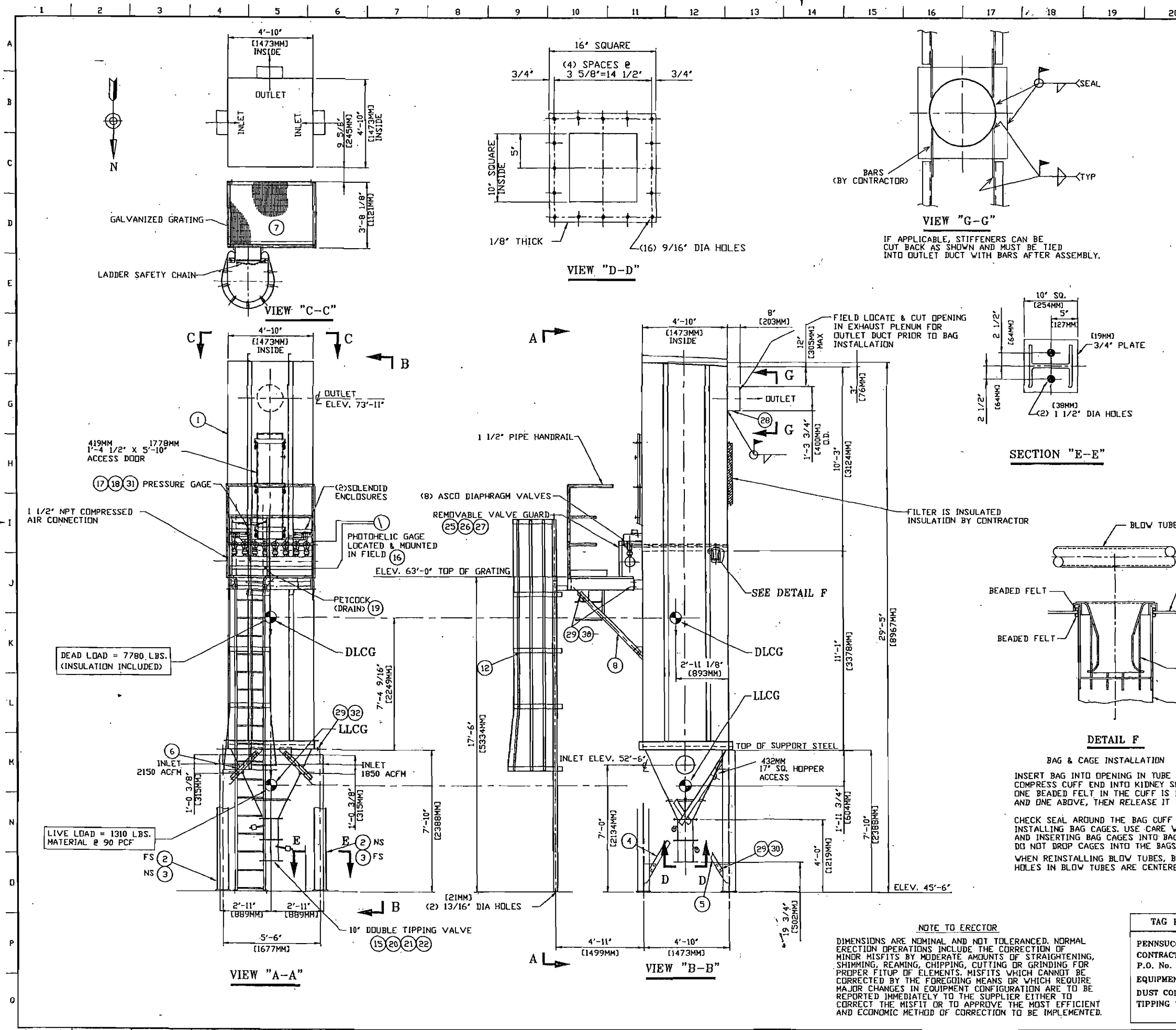
EU ID#	EU Source	BF Unit ID	
028	Blending & Kiln Feed	341.BF350	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	64C10	64	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3760	833	4.5:1	241



EU ID#	EU Source	BF Unit ID	
028	Blending & Kiln Feed	351.BF410	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	64C10	64	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4000	833	4.8:1	84

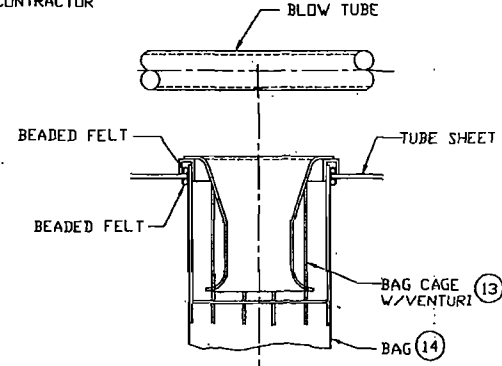


Emission Control Equipment
Aug05



ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR WT. 7170# [3252kg]	336-02-4-0125 00
2	1	HOUSING & HOPPER ASSEMBLY	336-02-4-0182 01
3	2	COLUMN	336-99-4-0504 01
4	2	BRACE	336-99-4-0504 02
5	2	BRACE	336-99-4-0504 03
6	4	BRACE	336-99-4-0504 04
7	1	PLATFORM WITH HANDRAIL	336-02-4-0514 01
8	2	PLATFORM BRACE	336-01-2-0557 01
12	1	LADDER WITH SAFETY CAGE	336-02-4-0707 01
13	64	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	64	BAG 5" DIA X 10'-0" LG SINGED POLYESTER	314-79-4-0001 54
15	1	10" DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	1	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
19	1	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
20	1	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	
21	1	1" X 1/8" X 5'-0" LG. J-CALULK NO. 7446 BURNSTINES	000-02-0-0176 51
22	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022 49
23	16	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
24			
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
26	2	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
27	1	VALVE COVER PLATE	336-99-2-2011 01
28	1	OUTLET DUCT	336-02-3-1519 15
29	56	HEX HD BOLT 3/4" 10NC X 2" LG W/HEX NUT ASTM-A325	040-00-4-0022 26
30	48	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4" DIA ASTM F436	
33	1	WJ-10 TIMER (NEMA 4 ENCL.) (NOT SHOWN)	315-84-4-3019 00

DESIGN DATA	
1. MODEL	-- 04C10
2. APPLICATION	-- RAW MEAL
3. GAS VOLUME	-- 4000 ACFM
4. OPERATING TEMPERATURE	-- 178° F
5. DESIGN PRESSURE	-- 20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 64
9. TOTAL CLOTH AREA	-- 833 FT ²
10. AIR TO CLOTH RATIO	-- 4.8 : 1
11. COMPRESSED AIR CONSUMPTION	-- 80 SCFM @ 90-100 PSIG



BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.

WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117
EQUIPMENT No.s
DUST COLLECTOR - 351.BF410
TIPPING VALVE - 351.FV430

NOTE TO ERECTOR

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

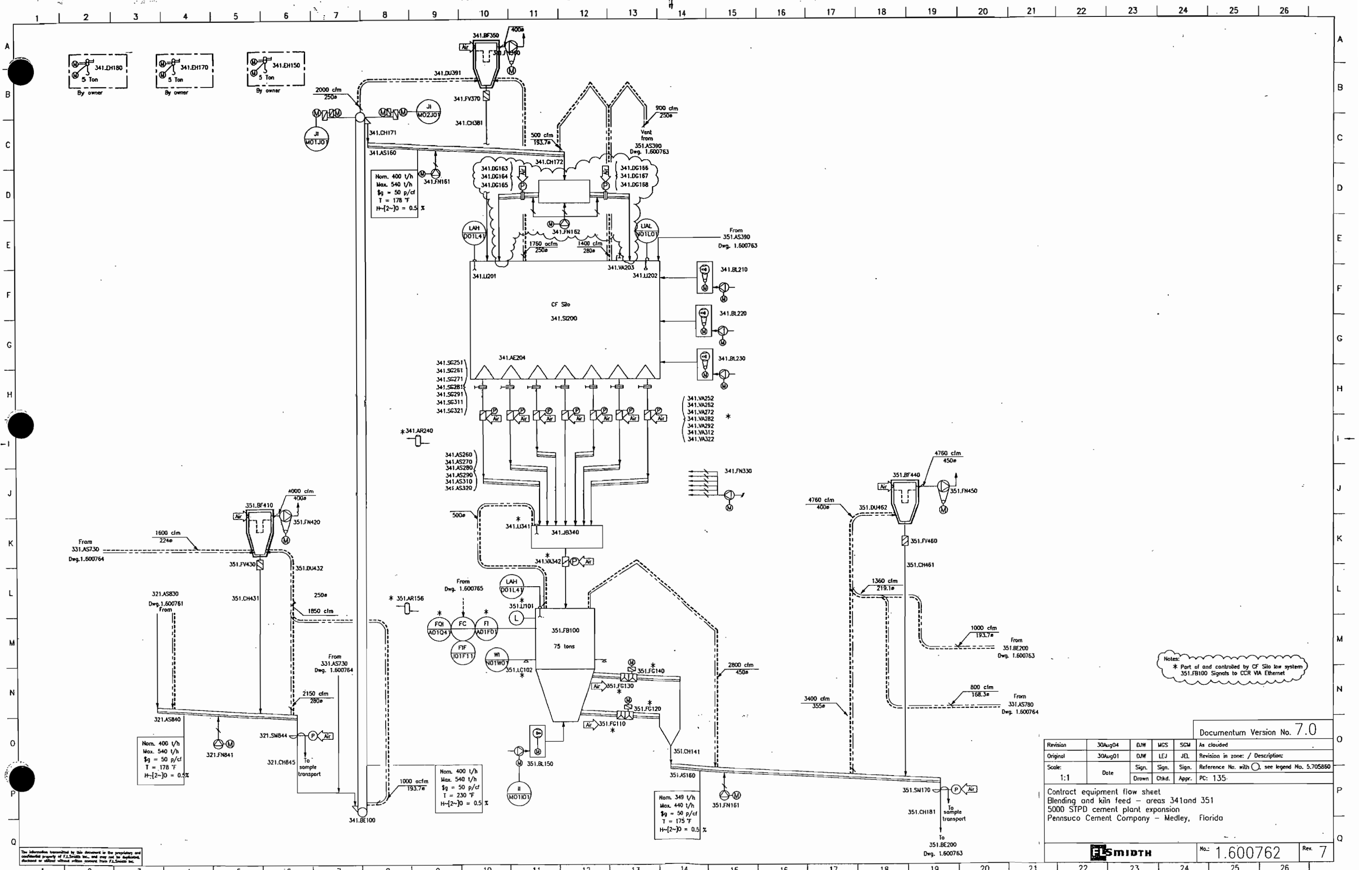
LADDER WAS ON RIGHT HAND SIDE OF PLATFORM CORRECTED EQUIPMENT BLOCK

REVISED PER CUSTOMER MARKED DRAWING DATED 10APR02 INLET WAS SINGLE 1'-6" [457MM] OUTLET WAS 1'-6" [457MM]

THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLSMITH AIRTECH INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLSMITH AIRTECH

FLSMITH AIRTECH
Bethlehem, Pa. 18017 USA

DR. DMR	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 64C10
APPR. JFS	JET PULSE COLLECTOR
DATE 27MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL.
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET
	NO. 1 OF 1



Notes:
* Part of and controlled by CF Silo low system
351.FB100 Signals to CCR VIA Ethernet

Documentum Version No. 7.0

Revision	30Aug04	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Blending and kiln feed - areas 341 and 351
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

FLSMIDTH

No.: 1.600762

Rev. 7

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RAW MILL & PYROPROCESSING
351.BF440



Pennsuco Cement

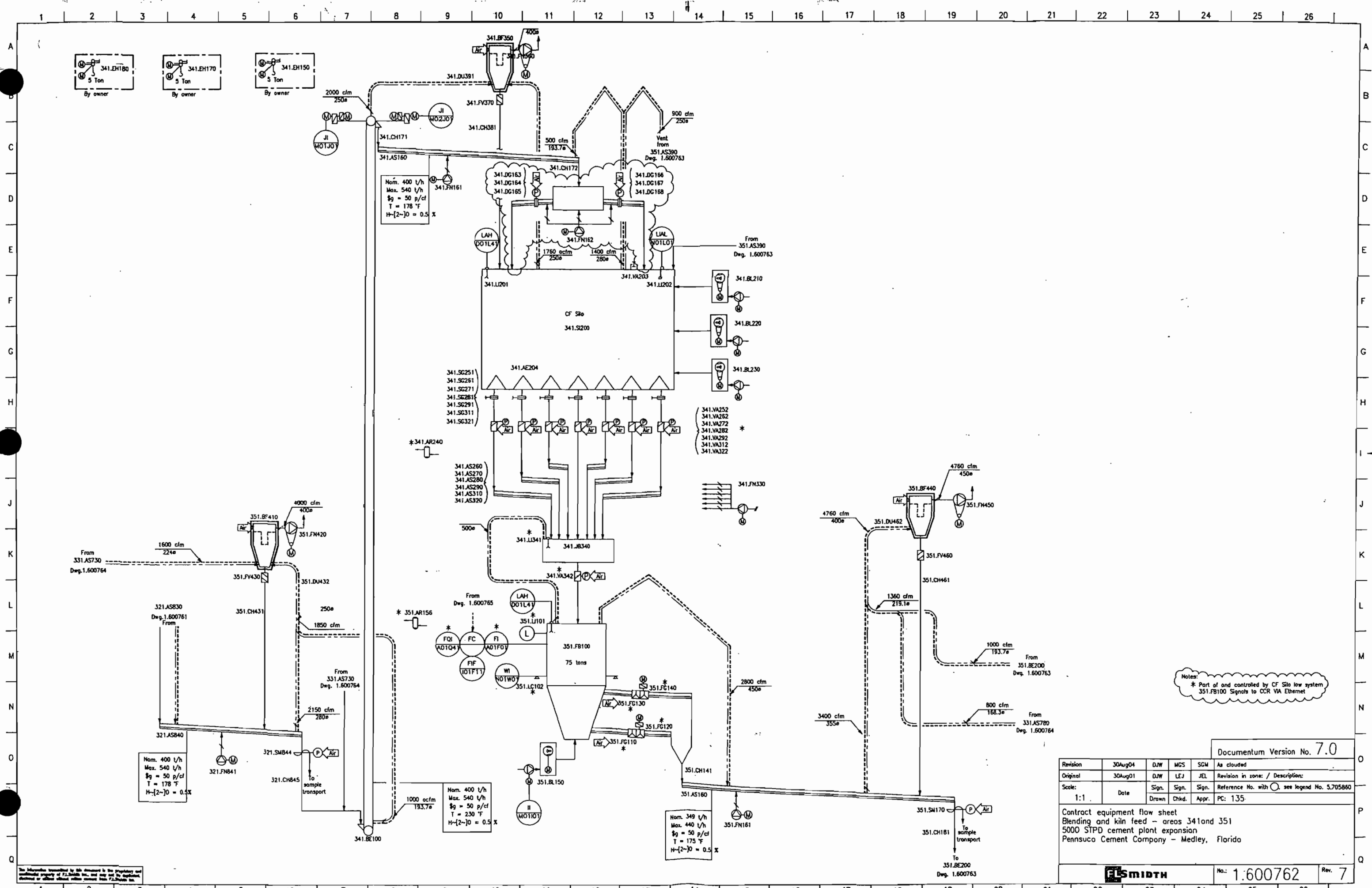
EU ID#	EU Source	BF Unit ID	
028	Blending & Kiln Feed	351.BF440	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4760	1320	3.7:1	45



Emission Control Equipment
Aug05

EU ID#	EU Source	BF Unit ID	
028	Blending & Kiln Feed	351.BF470	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4100	1302	3.2:1	353





Notes:
* Part of and controlled by CF Silo low system
351.FB100 Signals to CCR VIA Ethernet

Documentum Version No. 7.0

Revision	30Aug04	DJW	MGS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Blending and kiln feed - areas 341 and 351
5000 STPD cement plant expansion
Pennsuco Cement Company - Medley, Florida

FLSMIDTH

No.: 1.600762

Rev. 7

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RAW MILL & PYROPROCESSING
351.BF470



Pennsuco Cement

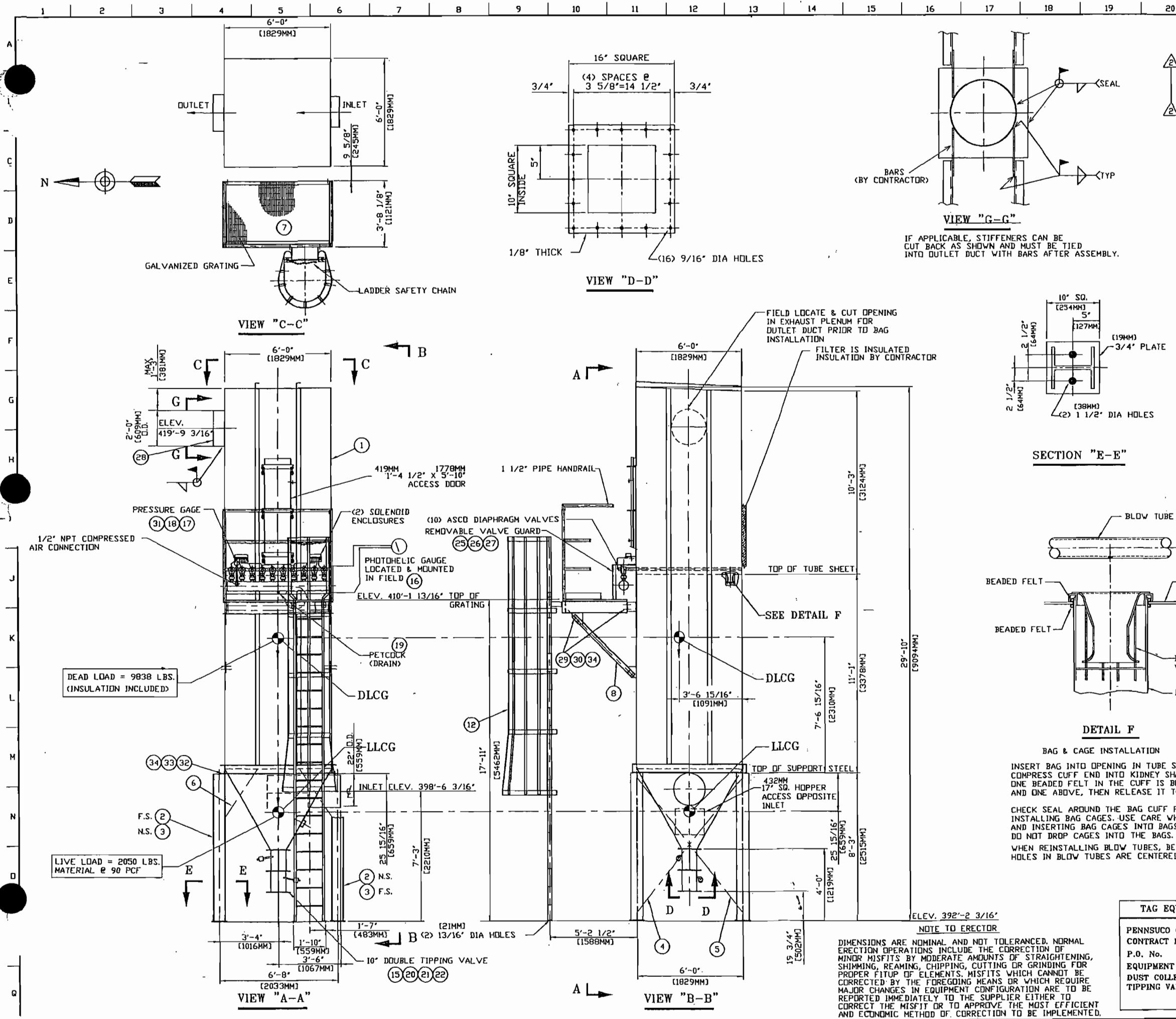
EU ID#	EU Source	BF Unit ID	
028	Blending & Kiln Feed	351.BF440	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4760	1320	3.7:1	45



EU ID#	EU Source	BF Unit ID	
028	Blending & Kiln Feed	351.BF470	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4100	1302	3.2:1	353

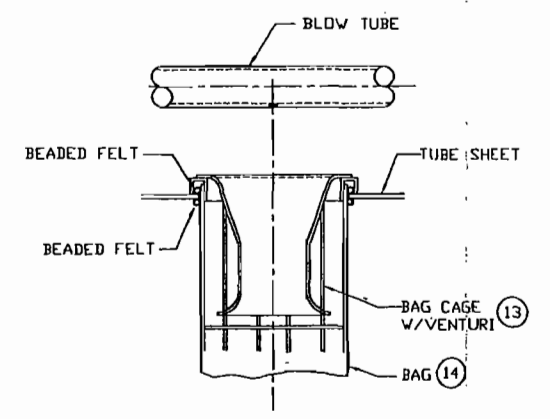


Emission Control Equipment
Aug05



ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR WT. 8171# [3661Kg]	336-02-4-0130 00
2	2	HOUSING & HOPPER ASSEMBLY	336-02-4-0169 00
3	2	COLUMN	336-02-4-0519 01
4	2	COLUMN	336-02-4-0519 02
5	2	BRACE	336-02-4-0519 03
6	2	BRACE	336-02-4-0519 04
7	1	BRACE	336-02-4-0519 05
8	1	PLATFORM WITH HANDRAIL	336-02-4-0512 01
9	2	PLATFORM BRACE	336-01-2-0557 01
10			
11			
12	1	LADDER WITH CAGE	336-02-4-0703 01
13	100	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	100	BAG 5' DIA X 10'-0\" LG SINGED POLYESTER	314-79-4-0001 54
15	1	10\" DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	1	PRESSURE GAGE, 1/4\" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	1	3 1/2\" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
19	1	COUPLING 1/4\" NPT 150# M.I.	000-00-5-3095 00
20	1	PETCOCK, 1/4\" NPT, CRANE #700 OR EQUAL	
21	1	1\" X 1/8\" X 5'-0\" LG. J-CALK NO. 7446 BURNSTINES	000-02-0-0176 51
22	16	HEX HD CAP SCREW 1/2\" 13NC X 1 1/2\" LG	040-00-4-0022 49
23	16	HEX NUT 1/2\" 13NC	040-00-0-4420 00
24			
25	2	HEX HD CAP SCREW 3/8\" 16NC X 1 1/4\" LG	040-00-4-0022 16
26	2	HEX NUT 3/8\" 16NC	040-00-4-0022 28
27	1	VALVE COVER PLATE	336-99-2-2011 01
28	1	OUTLET DUCT	336-99-3-1501 01
29	48	HEX NUT 3/4\" 10NC	ASTM-A325
30	48	PLAIN FLAT WASHER 3/4\" DIA	ASTM-A325
31	1	PIPE 1/4\" SCH 40 X 9\" LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4\" DIA.	ASTM-F436
33	8	HEAVY HEX NUT 3/4\" 10NC	ASTM-A363, GRADE C
34	56	HEX HD BOLT 3/4\" 10NC X 2\" LG	ASTM-A325
35	1	WJ-10 TIMER (NEMA 4 ENCL.)	NOT SHOWN
			315-84-4-3019 00

SECTION "E-E"



DETAIL F

BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.

WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	CONTRACT No. 15-01-20133
P.O. No.	4-01-20133-14117
EQUIPMENT No.s	
DUST COLLECTOR	- 351.BF470
TIPPING VALVE	- 351.FV480

DESIGN DATA	
1. MODEL	-- 100C10
2. APPLICATION	-- RAW MEAL
3. GAS VOLUME	-- 4100 ACFM
4. OPERATING TEMPERATURE	-- 175° F
5. DESIGN PRESSURE	-- -20\" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5\" DIA X 10'-0\" LG
8. NUMBER OF BAGS (TOTAL)	-- 100
9. TOTAL CLOTH AREA	-- 1302FT ²
10. AIR TO CLOTH RATIO	-- 3.15 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG

REV. NO.	1	2
DR.	VEH	VEH
CHD.	EL	EL
APPR.	JFS	JFS
DATE	21MAY02	14AUG02
ZONE		
MICRO		
ITEM #2 THRU 6 WERE 336-99-4-0501		
REVISED PER CUSTOMER MARKED DRAWING DATED 15APR02		
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FLS miljø Inc.

Bethlehem, Pa. 18017 USA

DR. DMR	GENERAL ARRANGEMENT	
CHD. EL	MODEL SIZE 100C10	
APPR. JFS	JET PULSE COLLECTOR	
DATE 27MAR02	PENNSUCO CEMENT COMPANY	MEDLEY, FL.
SCALE 3/8\"=1'	DRAWING NUMBER	REV. SHEET
MICRO	336-02-4-0130	2
		NO. 1 OF 1

NOTE TO ERECTOR

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

RAW MILL & PYROPROCESSING
331.BF645



Pennsuco Cement

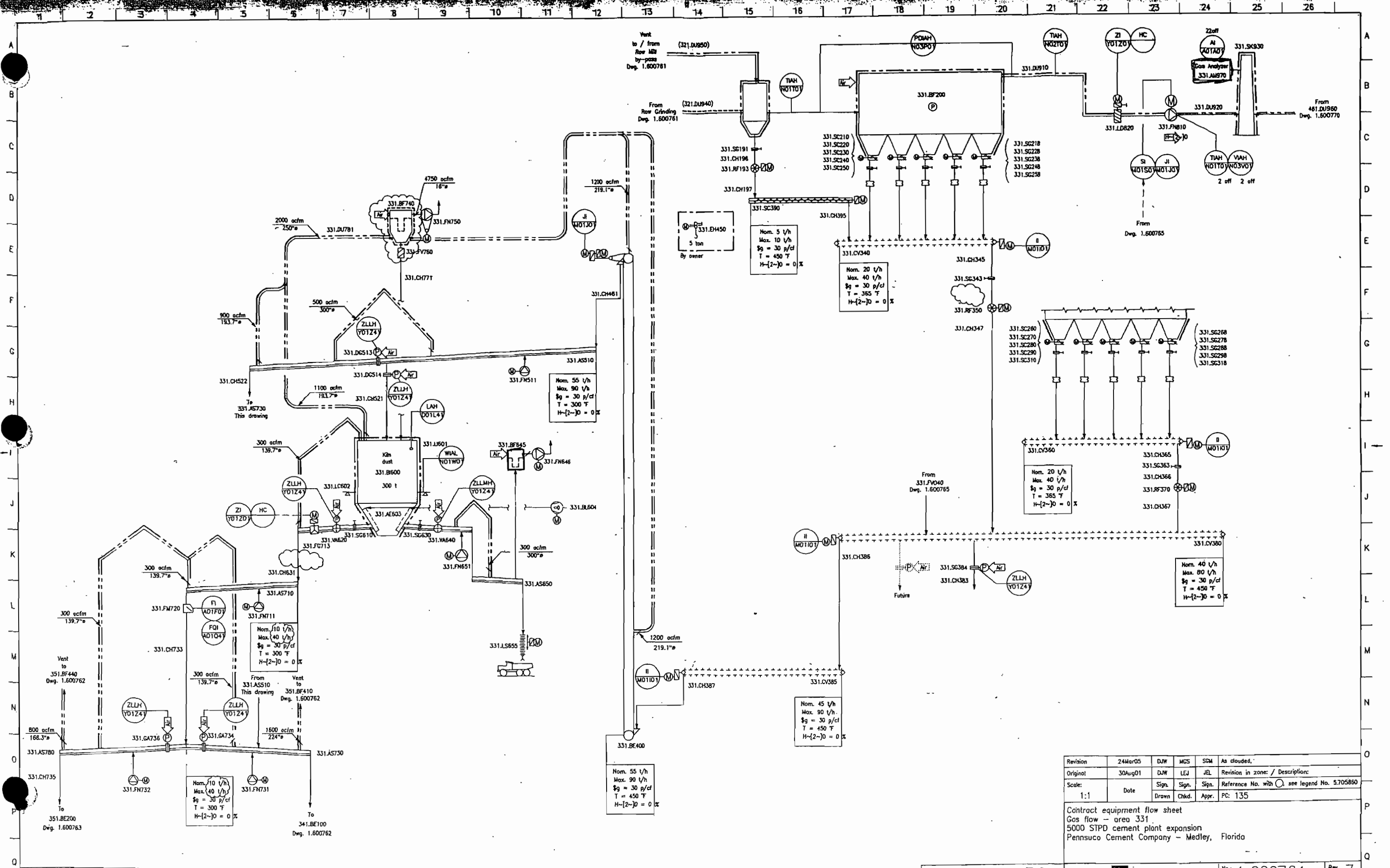
EU ID#	EU Source	BF Unit ID	
028	Pyroprocessing	331.BF645	
Control Equipment Make	Model #	# of Bags	
Midwest	MVL54H	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3500	1167	3.9:1	46



EU ID#	EU Source	BF Unit ID	
028	Pyroprocessing	331.BF740	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	100C10	100	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
4250	1302	3.3:1	125



Emission Control Equipment
Aug05



Revision	24Mar05	DJW	MGS	SDM	As clouded.
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Date	Sign.	Sign.	Reference No. with see legend No. 5705880
			Drawn	Chkd.	Appr. PC: 135

Contract equipment flow sheet
Gas flow - area 331
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

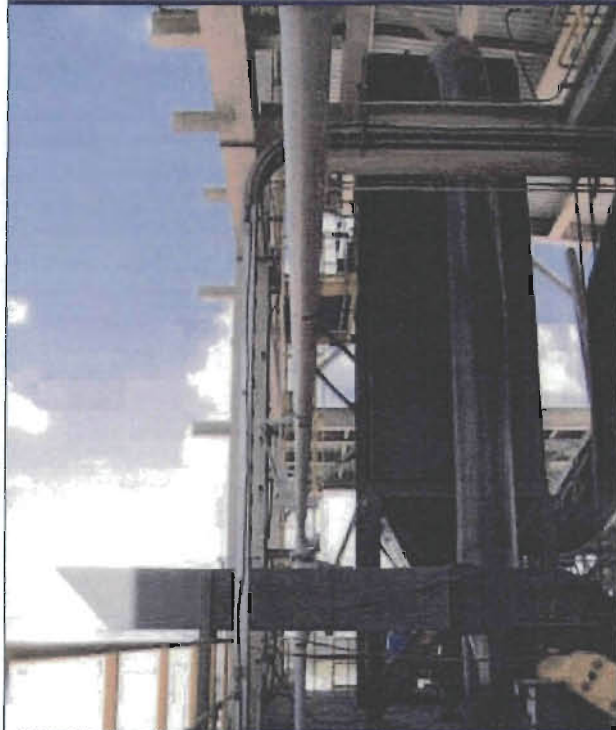
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RAW MATERIAL HANDLING
311.BF650



Pennsuco Cement

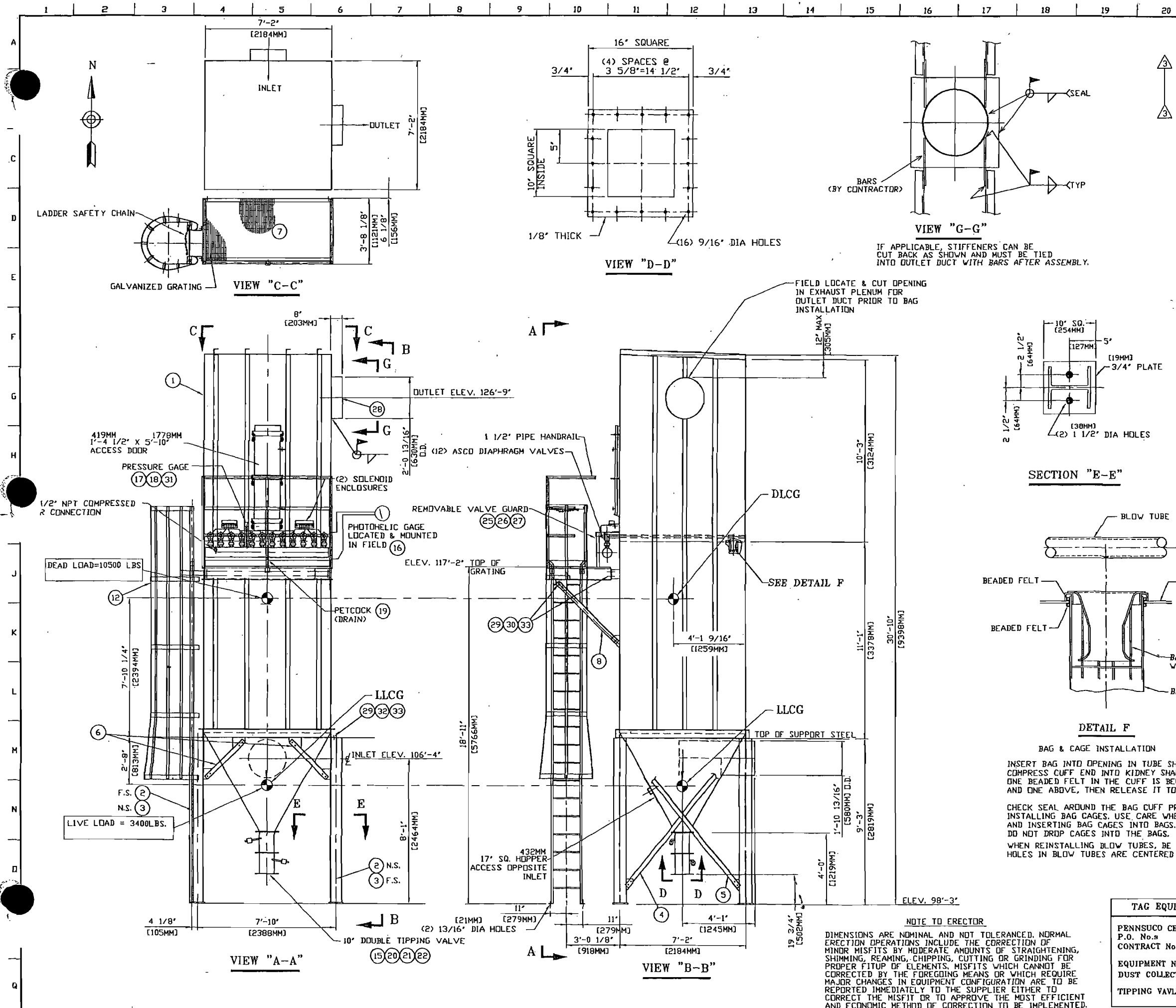
EU ID#	EU Source	BF Unit ID	
029	Raw Mill Feed & Grinding	311.BF650	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	144C10	144	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
8500	1875	4.5:1	98



EU ID#	EU Source	BF Unit ID	
029	Raw Mill Feed & Grinding	311.BF750	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	144C10	144	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
7750	1875	4.5:1	17

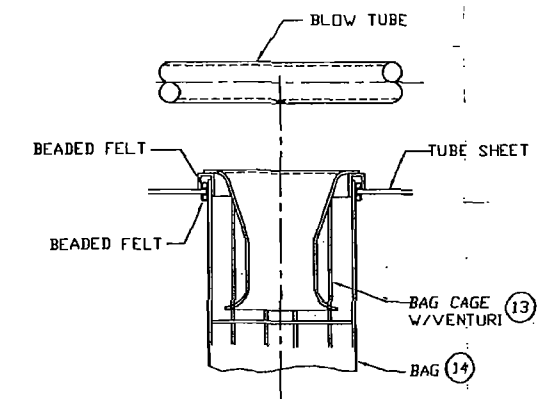


Emission Control Equipment
Aug05



ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
1	1	JET PULSE COLLECTOR WT. 10500# [4762Kg]	336-02-4-0133 00
2	2	HOUSING & HOPPER ASSEMBLY	336-02-4-0172 00
3	2	COLUMN	336-02-4-0517 01
4	2	BRACE	336-02-4-0517 02
5	2	BRACE	336-02-4-0517 03
6	4	BRACE	336-02-4-0517 04
7	1	PLATFORM WITH HANDRAIL	336-01-4-0544 01
8	2	PLATFORM BRACE	336-01-2-0557 01
9			
10			
11			
12	1	LADDER WITH CAGE	336-02-4-0705 01
13	144	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	144	BAG 5' DIA X 10'-0" LG. SINGED POLYESTER	314-79-4-0001 54
15	1	10' DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	1	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	1	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
19	1	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	
20	1	1' X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176 51
21	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG. ZINC PL	040-00-4-0022 49
22	16	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
23			
24			
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
26	2	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
27	1	VALVE COVER PLATE	336-99-2-2011 01
28	1	OUTLET DUCT	336-02-3-1509 01
29	56	HEX HD BOLT 3/4" 10NC X 2' LG ASTM-A325	
30	48	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	
33	56	HEAVY HEX NUT 3/4" DIA. ASTM-563, GRADE C	
34	1	WJ-10 TIMER (NEMA 4 ENCL.) (NOT SHOWN)	315-84-4-3019 00

SECTION "E-E"



DETAIL F

BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.

WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

DESIGN DATA	
1. MODEL	-- 144C10
2. APPLICATION	-- RAW MATERIAL
3. GAS VOLUME	-- 8500 ACFM
4. OPERATING TEMPERATURE	-- 92° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5' DIA X 10'-0" LG
8. NUMBER OF BAGS, (TOTAL)	-- 144
9. TOTAL CLOTH AREA	-- 1875 FT ²
10. AIR TO CLOTH RATIO	-- 4.5 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG

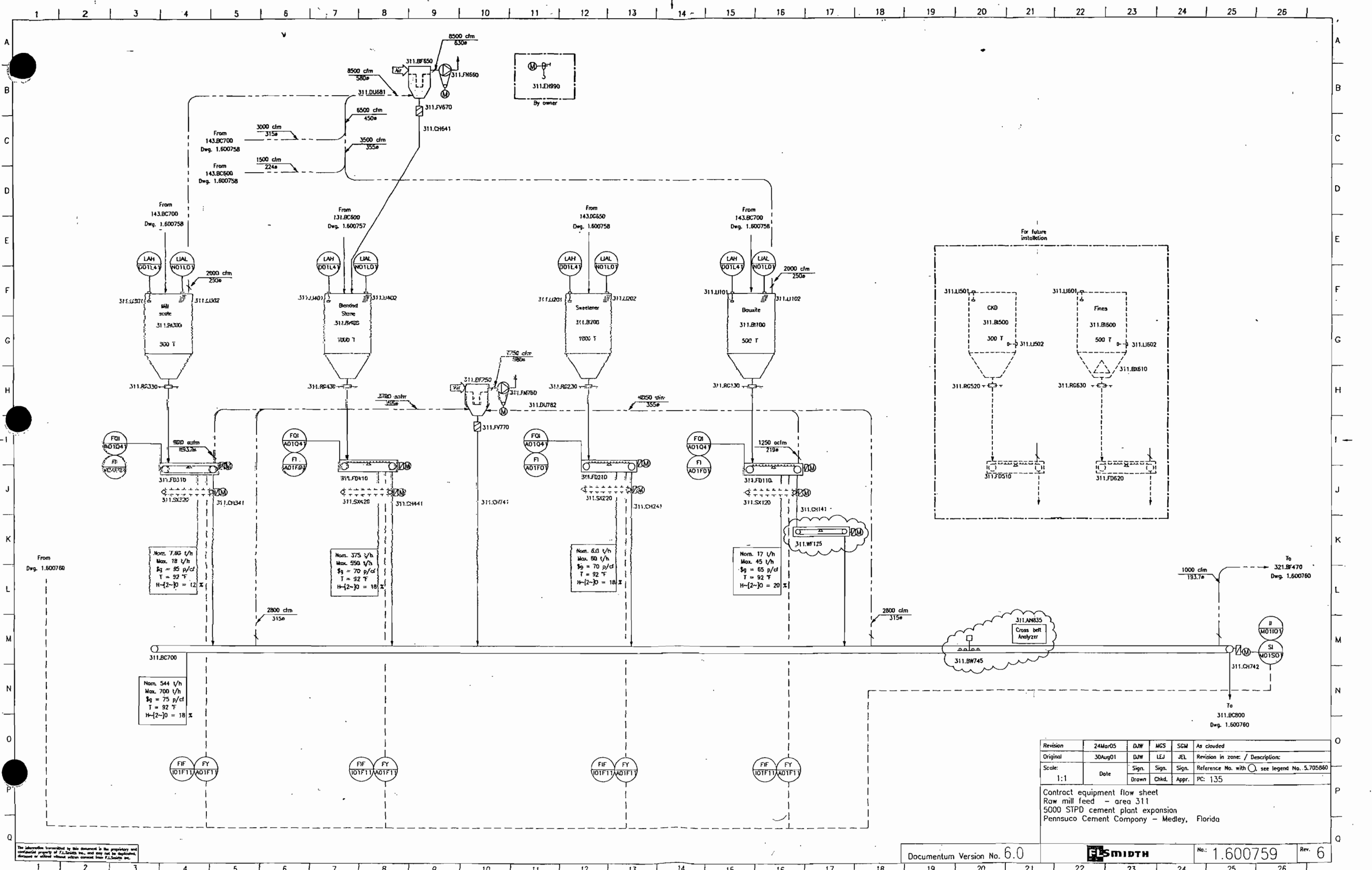
REV. NO.	DR.	CHD.	APP.	DATE	ZONE	REVISION
3		VEH	EL	JFS		ITEMS 2 THRU 6 WERE 336-99-4-1510
2		VEH	EL	JFS		REVISED DEAD LOAD
1		VEH	JFS			REVISED PER CUSTOMER MARKED DRAWING DATED 23APR02 INLET WAS 26" [660MM] OUTLET WAS 28" [711MM]
						THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

FLS miljø Inc.

Bethlehem, Pa. 18017 USA

TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	
P.O. No.s 4-01-20133-14117	
CONTRACT No. 15-01-20133	
EQUIPMENT No.s	
DUST COLLECTOR - 311.BF650	
TIPPING VALVE - 311.FV670	

GENERAL ARRANGEMENT	
DR. DMR	MODEL SIZE 144C10
CHD. EL	JET PULSE COLLECTOR
APP. JFS	PENNSUCO CEMENT COMPANY MEDLEY, FL.
DATE 28MAR02	DRAWING NUMBER
SCALE 3/8"=1'	REV. SHEET
MICRO	336-02-4-0133 3



Revision	24Mar05	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

Contract equipment flow sheet
Raw mill feed - area 311
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

RAW MATERIAL HANDLING
311.BF750



Pennsuco Cement

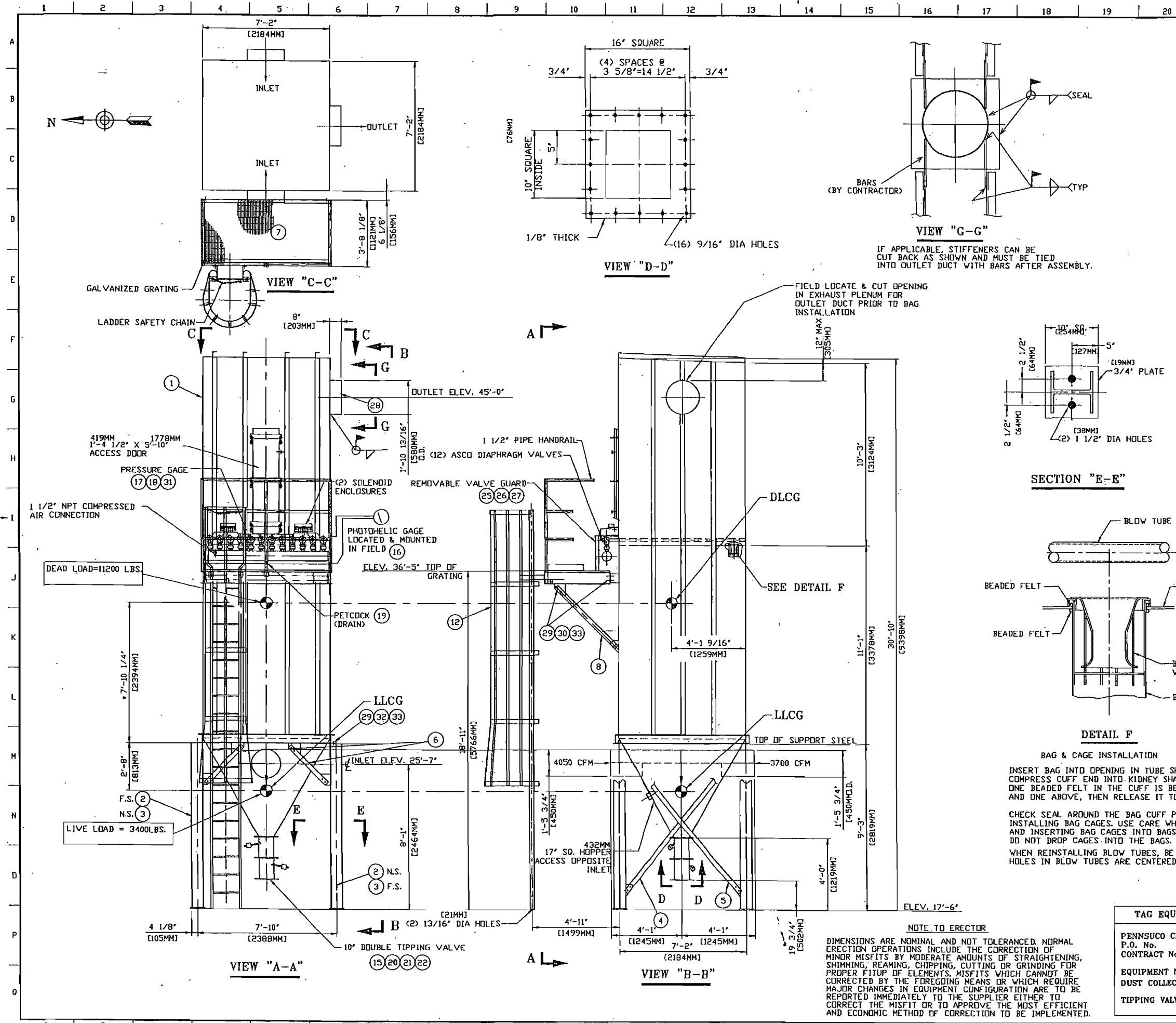
EU ID#	EU Source	BF Unit ID	
029	Raw Mill Feed & Grinding	311.BF650	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	144C10	144	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
8500	1875	4.5:1	98



EU ID#	EU Source	BF Unit ID	
029	Raw Mill Feed & Grinding	311.BF750	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	144C10	144	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
7750	1875	4.5:1	17

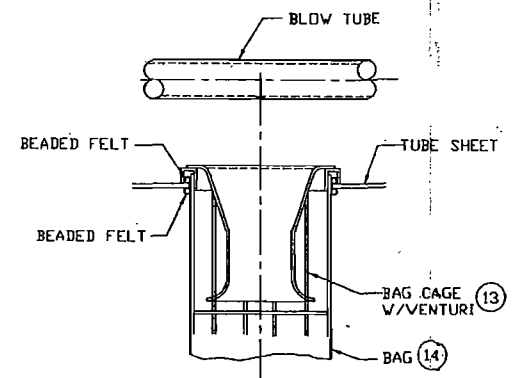


Emission Control Equipment
Aug05



ITEM NO.	DESCRIPTION	ITEM ID (PART NUMBER)
1	JET PULSE COLLECTOR WT. 11200# [5091Kg]	336-02-4-0134 00
2	HOUSING & HOPPER ASSEMBLY	336-02-4-0178 00
3	COLUMN	336-99-4-0510 01
4	COLUMN	336-99-4-0510 02
5	BRACE	336-99-4-0510 03
6	BRACE	336-99-4-0510 04
7	BRACE	336-99-4-0510 05
8	PLATFORM WITH HANDRAIL	336-02-4-0513 01
9	PLATFORM BRACE	336-01-2-0557 01
10		
11		
12	LADDER WITH CAGE	336-02-4-0705 01
13	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	BAG 5" DIA X 10'-0" LG SINGED-POLYESTER	314-79-4-0001 54
15	10" DOUBLE TIPPING VALVE	303-73-2-0309 01
16	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
19	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
20	PETCOCK, 1/4" NPT, CRANE #700 DR EQUAL	
21	1" X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176 51
22	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022 49
23	HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
24		
25	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
26	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
27	VALVE COVER PLATE	336-99-2-2011 01
28	OUTLET DUCT	336-02-3-1510 01
29	HEX HD BOLT 3/4" 10NC X 2" LG ASTM-A325	
30	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
31	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	
33	HEAVY HEX NUT 3/4" DIA. ASTM-S63, GRADE C	
34	VJ-10 TIMER (NEMA 4 ENCL.) (NOT SHOWN)	315-84-4-3019 00

DESIGN DATA	
1. MODEL	-- 144C10
2. APPLICATION	-- RAW MATERIAL
3. GAS VOLUME	-- 7750 ACFM
4. OPERATING TEMPERATURE	-- 92° F
5. DESIGN PRESSURE	-- -20" W.G.
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	-- 144
9. TOTAL CLOTH AREA	-- 1885 FT ²
10. AIR TO CLOTH RATIO	-- 4.1 : 1
11. COMPRESSED AIR CONSUMPTION	-- 60 SCFM @ 90-100 PSIG



BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE. POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.

WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
P.O. No. 4-01-20133-14117
CONTRACT No. 16-01-20133

EQUIPMENT No. 8
DUST COLLECTOR - 311.BF750
TIPPING VALVE - 311.FV770

NOTE TO ERECTOR

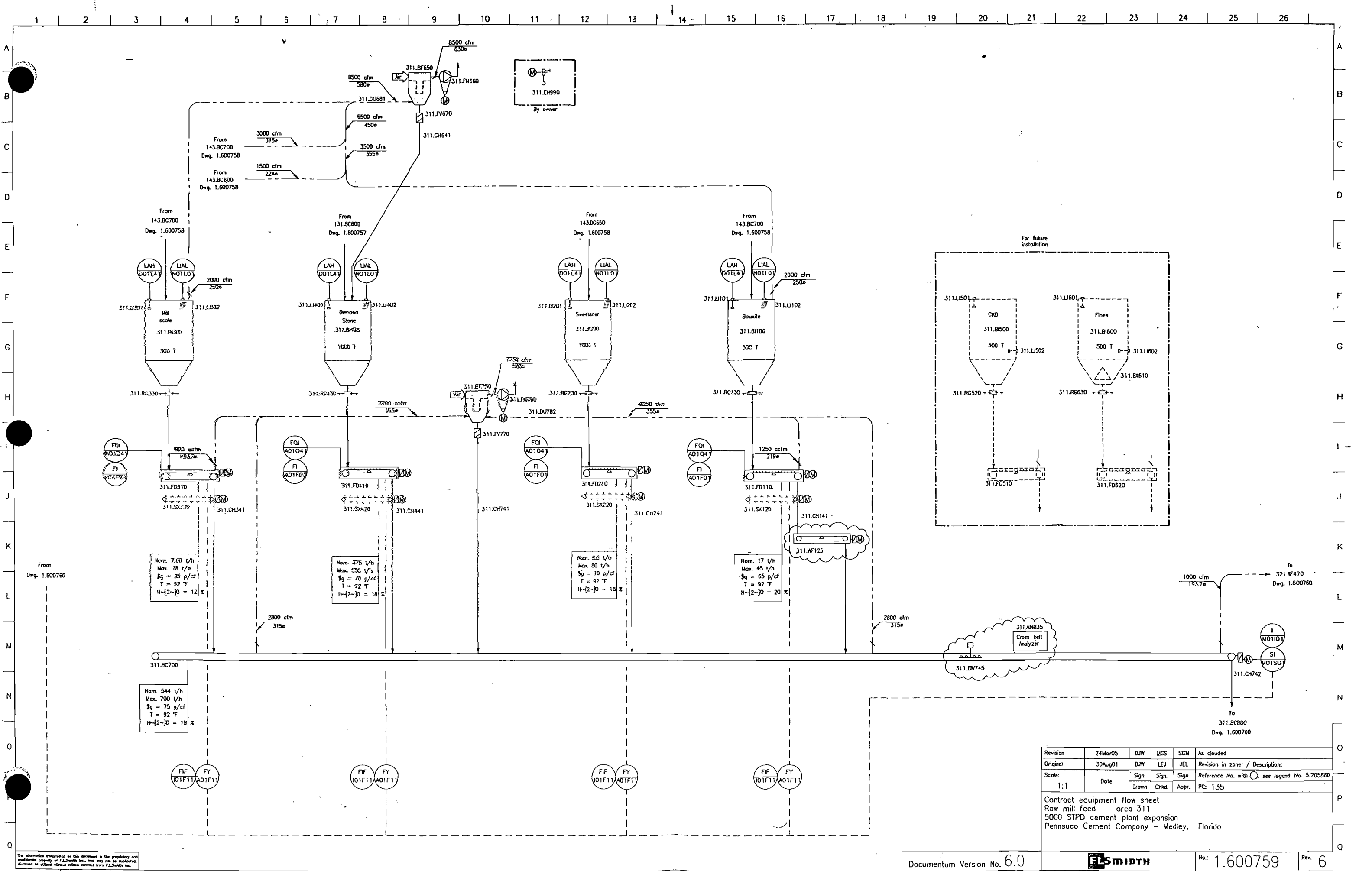
DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.



DR. DMR	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 144C10
APPR. JFS	JET PULSE COLLECTOR
DATE 28MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL.
SCALE 3/8"=1'	DRAWING NUMBER
MICRO	REV. SHEET
	336-02-4-0134 2
	NO. 1 OF 1

C223014

DWG. NO. 336-02-4-0133



From
Dwg. 1.600750

Norm. 7.60 t/h
Max. 18 t/h
Sg = 85 p/cf
T = 92 °F
H-[2-]0 = 12 %

Norm. 375 t/h
Max. 550 t/h
Sg = 70 p/cf
T = 92 °F
H-[2-]0 = 18 %

Norm. 6.0 t/h
Max. 80 t/h
Sg = 70 p/cf
T = 92 °F
H-[2-]0 = 18 %

Norm. 17 t/h
Max. 45 t/h
Sg = 65 p/cf
T = 92 °F
H-[2-]0 = 20 %

Norm. 544 t/h
Max. 700 t/h
Sg = 75 p/cf
T = 92 °F
H-[2-]0 = 18 %

Revision	24Mar05	DJW	MCS	SGM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	1:1	Date	Sign.	Sign.	Reference No. with see legend No. 5.705860
		Drawn	Chkd.	Appr.	PC: 135

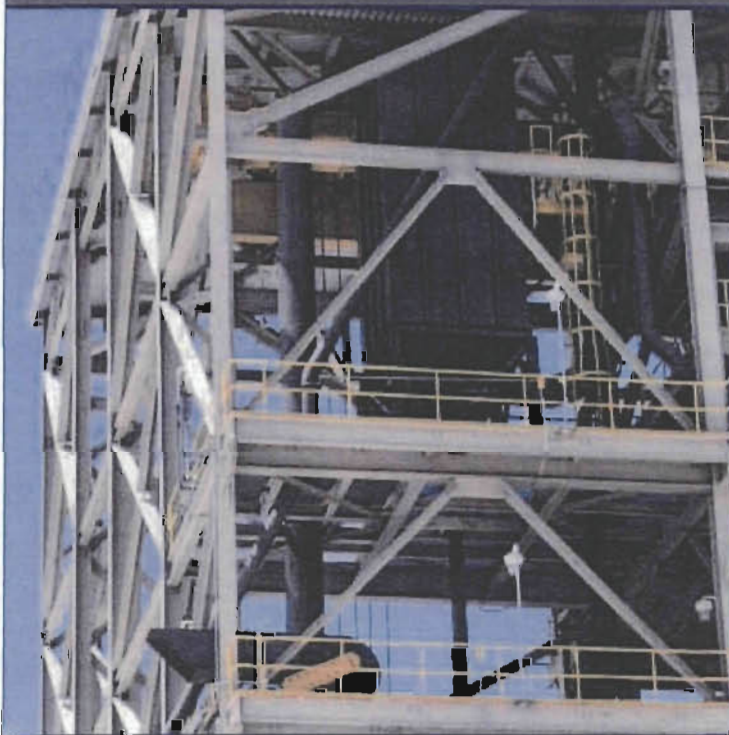
Contract equipment flow sheet
Raw mill feed - area 311
5000 STPD cement plant expansion
Pennsco Cement Company - Medley, Florida

RAW MATERIAL HANDLING
321.BF470



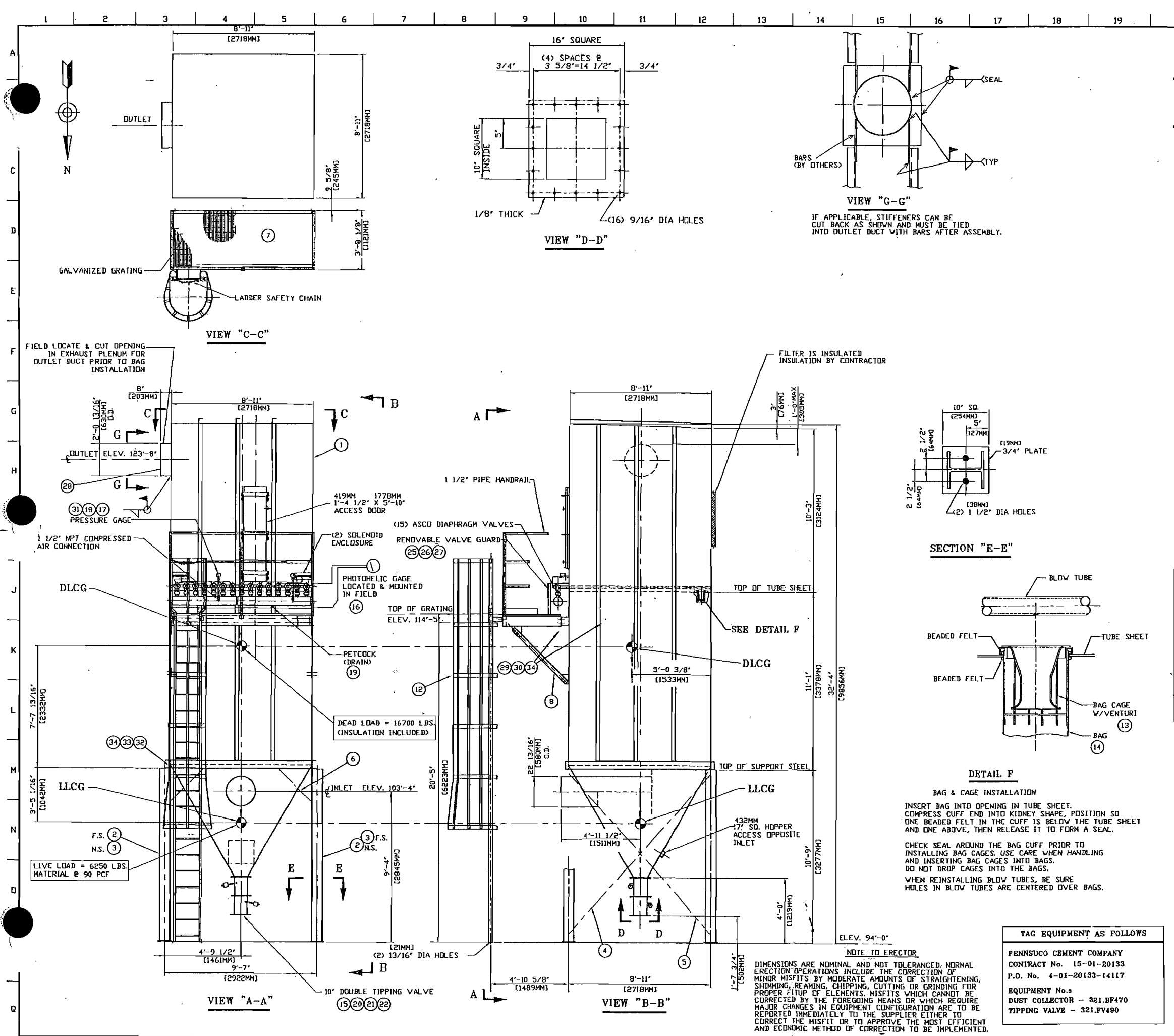
Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
029	Raw Mill & Feed Grinding	311.BF950	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	225C10	225	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
11700	2930	4.0:1	68



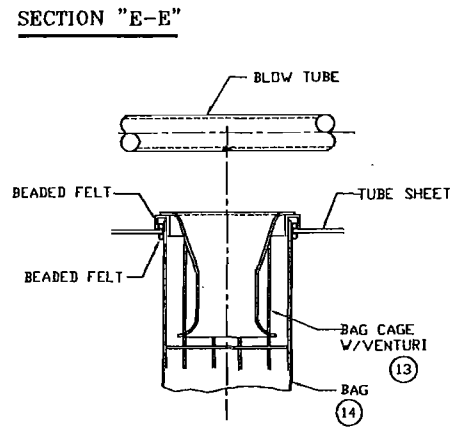
EU ID#	EU Source	BF Unit ID	
029	Raw Mill & Feed Grinding	321.BF470	
Control Equipment Make	Model #	# of Bags	
FLS Airtech	225C10	225	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
10800	2930	3.7:1	100





21		22		23		24		25		26		27	
FINB QTYNO	QTY.	DESCRIPTION								ITEM ID (PART NUMBER)			
		JET PULSE COLLECTOR WT.13000# (5897Kg)								336-02-4-0137 00			
	1	HOUSING & HOPPER ASSEMBLY								336-02-4-0208 00			
	2	COLUMN								336-02-4-0521 01			
	3	COLUMN								336-02-4-0521 02			
	4	BRACE								336-02-4-0521 03			
	5	BRACE								336-02-4-0521 04			
	6	BRACE								336-02-4-0521 05			
	7	PLATFORM WITH HANDRAIL								336-02-4-0515 01			
	8	PLATFORM BRACE								336-01-2-0557 01			
	9												
	10												
	11												
	12	LADDER WITH SAFETY CAGE								336-01-4-0743 01			
	13	225 BAG CAGE & VENTURI ASSEMBLY								325-85-4-1902 01			
	14	225 BAG 5" DIA X 10'-0" LG SINGED POLYESTER								314-79-4-0001 54			
	15	1 10" DOUBLE TIPPING VALVE								303-73-2-0309 01			
	16	1 PHOTOHELIC GAGE & PIPING ASSEMBLY								325-75-2-2003 04			
	17	2 PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI 3 1/2" DIA FACE,BLACK STL CASE,MARSHALLTOWN FIG. 23								500-01-0-6007 00			
	18	2 COUPLING 1/4" NPT 150# MI.								000-00-5-3095 00			
	19	2 PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL											
	20	1 1' X 1/8" X 5'-0" LG. J-Caulk NO. 7446 BURNSTINES								000-02-0-0176 51			
	21	16 HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL								040-00-4-0022 49			
	22	16 HEX NUT 1/2" 13NC ZINC PL								040-00-0-4420 00			
	23												
	24												
	25	2 HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL								040-00-4-0022 16			
	26	2 HEX NUT 3/8" 16NC ZINC PL								040-00-4-0022 28			
	27	1 VALVE COVER PLATE.								336-99-2-2011 01			
	28	1 OUTLET DUCT								336-02-3-1509 01			
	29	48 HEX NUT 3/4" 10NC ASTM-A325											
	30	48 PLAIN FLAT WASHER 3/4" DIA ASTM-A325								040-00-4-0002 54			
	31	1 PIPE 1/4" SCH 40 X 9' LG T.B.E.											
	32	8 HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436											
	33	8 HEAVY HEX NUT 3/4" 10NC ASTM-A363, GRADE C											
	34	56 HEX HD BOLT 3/4" 10NC X 2' LG ASTM-A325								040-00-4-0022 26			
	35	1 WJ-10 TIMER, NEMA 4, 115V/1PH/60HZ (NOT SHOWN)								315-84-4-3019 00			

DESIGN DATA	
1. MODEL	-- 225C10
2. APPLICATION	-- RAW MATERIAL
3. GAS VOLUME	-- 10800 ACFM
4. OPERATING TEMPERATURE	-- 108° F
5. DESIGN PRESSURE	-- -20\"/>
6. FILTER MEDIA	-- POLYESTER
7. BAG SIZE	-- 5\"/>
8. NUMBER OF BAGS (TOTAL)	-- 225
9. TOTAL CLOTH AREA	-- 2930 JT ²
10. AIR TO CLOTH RATIO	-- 3.7 : 1
11. COMPRESSED AIR CONSUMPTION	-- 120 SCFM @ 90-100 PSIG



DETAIL F
BAG & CAGE INSTALLATION
INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.
WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

TAG EQUIPMENT AS FOLLOWS

PENNSUCO CEMENT COMPANY
CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117

EQUIPMENT No.s
DUST COLLECTOR - 321.BP470
TIPPING VALVE - 321.FV480

NOTE TO ERECTOR

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.

REV. NO.	2	VEH	EL	JFS	23JUL02	27AUG02	ITEM # 2 THRU 6 WERE 336-99-4-0554
DR.	1	VEH	EL	JFS	23JUL02	27AUG02	REVISED PER CUSTOMER MARKED DRAWING DATED 16APR02 INLET WAS 32\"/>
CHD.							THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

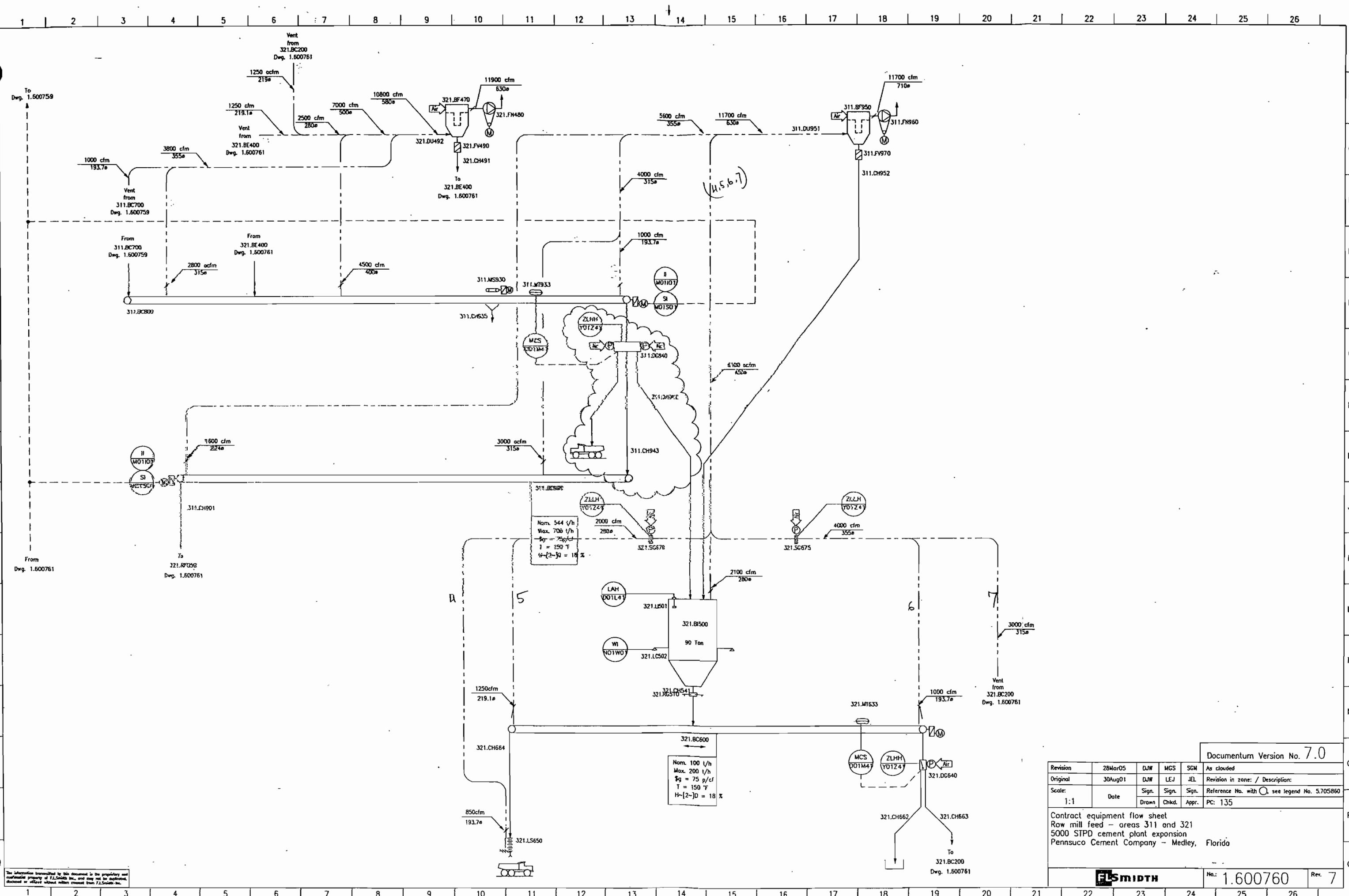
FLS miljø Inc.

Bethlehem, Pa. 18017 USA

DR. DMR	GENERAL ARRANGEMENT
CHD. EL	MODEL SIZE 225C10
APPR. JFS	JET PULSE COLLECTOR
DATE 28MAR02	PENNSUCO CEMENT COMPANY MEDLEY, FL.
SCALE 3/8\"/>	DRAWING NUMBER
MICRO	REV. SHEET

336-02-4-0137 2

NO. 1
OF 1



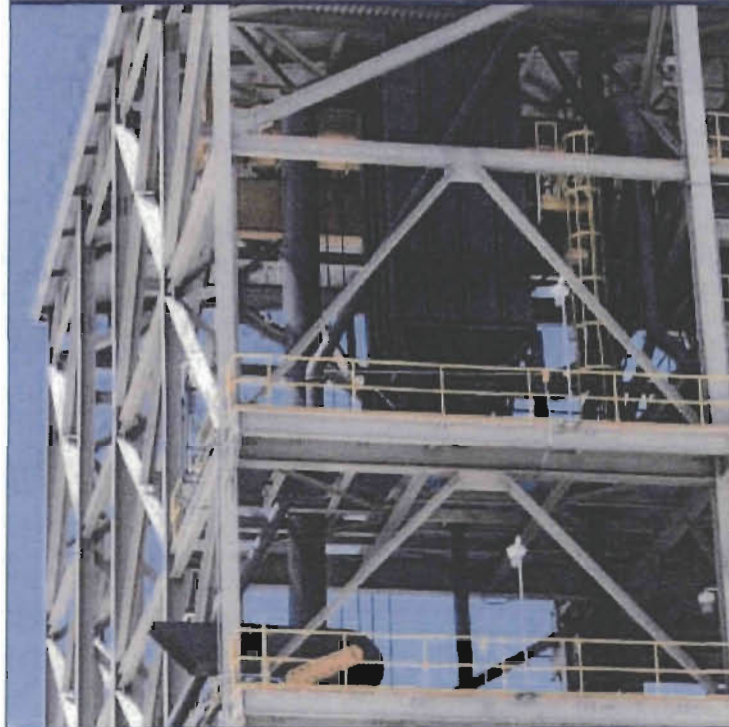
Documentum Version No. 7.0				
Revision	28Mar05	DJW	MCS	SGM
Original	30Aug01	DJW	LEJ	JEL
Revision in zone: / Description:				
Scale:	Date	Sign.	Sign.	Sign.
1:1		Drawn	Chkd.	Appr.
Reference No. with ☐ see legend No. 5.705860				
PC: 135				
Contract equipment flow sheet				
Raw mill feed - areas 311 and 321				
5000 STPD cement plant expansion				
Pennsoco Cement Company - Medley, Florida				
				No. 1.600760 Rev. 7

RAW MATERIAL HANDLING
311.BF950

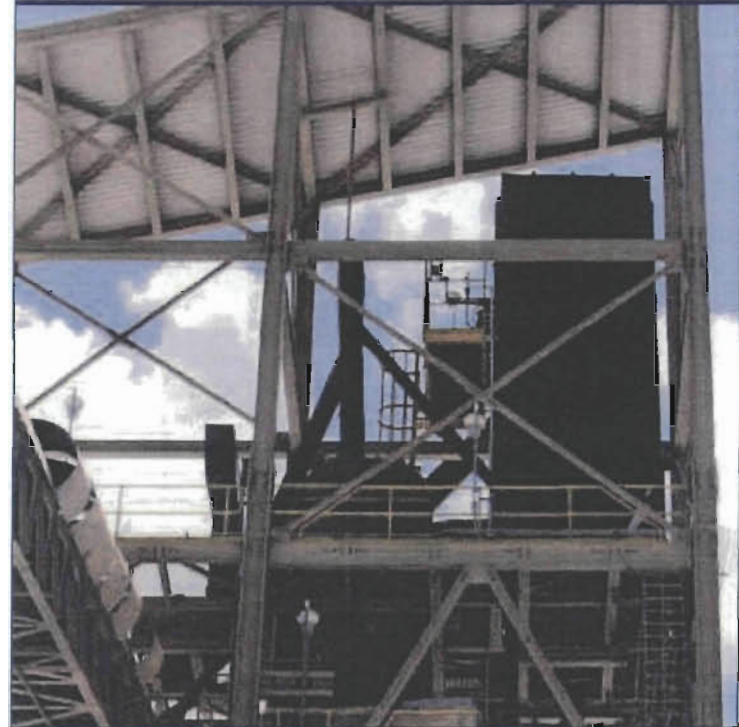


Pennsuco Cement

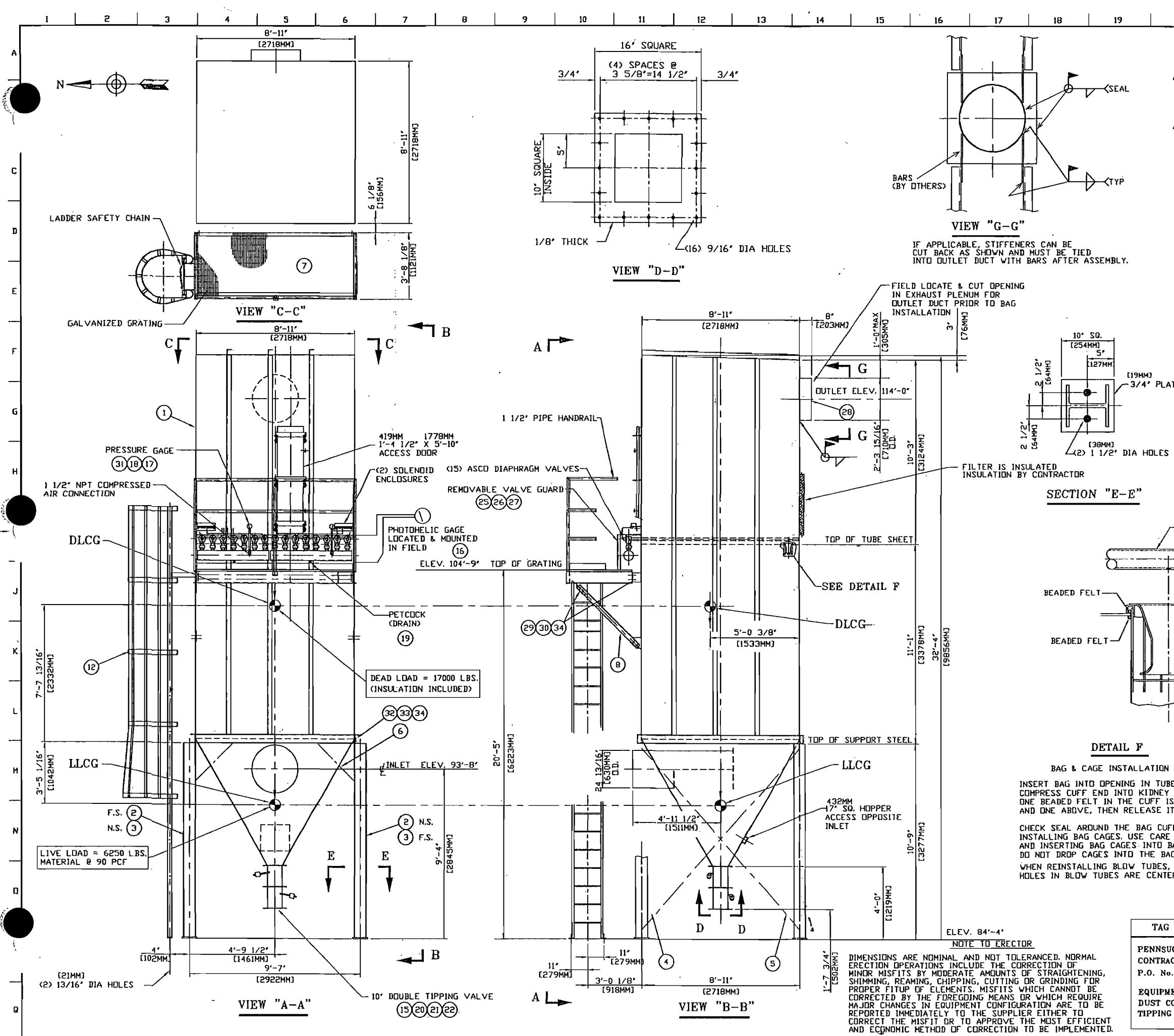
EU ID#	EU Source		BF Unit ID
029	Raw Mill & Feed Grinding		311.BF950
Control Equipment Make		Model #	# of Bags
FLS Airtech		225C10	225
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
11700	2930	4.0:1	68



EU ID#	EU Source		BF Unit ID
029	Raw Mill & Feed Grinding		321.BF470
Control Equipment Make		Model #	# of Bags
FLS Airtech		225C10	225
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
10800	2930	3.7:1	100

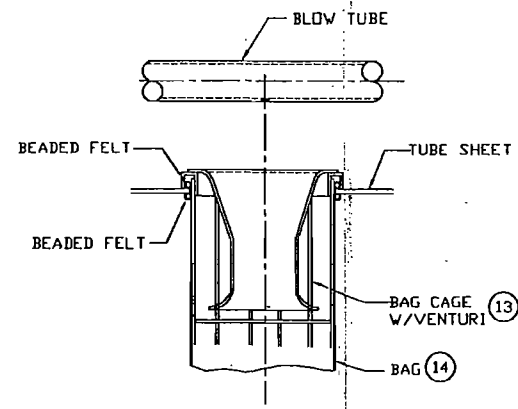


Emission Control Equipment
Aug05



ITEM NO.	QTY.	DESCRIPTION	ITEM ID (PART NUMBER)
		JET PULSE COLLECTOR WT.13000# [5897Kg]	336-02-4-0136 00
1	1	HOUSING & HOPPER ASSEMBLY	336-02-4-0206 00
2	2	COLUMN	336-02-4-0521 01
3	2	COLUMN	336-02-4-0521 02
4	2	BRACE	336-02-4-0521 03
5	2	BRACE	336-02-4-0521 04
6	4	BRACE	336-02-4-0521 05
7	1	PLATFORM WITH HANDRAIL	336-01-4-0551 01
8	2	PLATFORM BRACE	336-01-2-0557 01
9			
10			
11			
12	1	LADDER WITH SAFETY CAGE	336-01-4-0743 01
13	225	BAG CAGE & VENTURI ASSEMBLY	325-85-4-1902 01
14	225	BAG 5' DIA X 10'-0" LG SINGED POLYESTER	314-79-4-0001 54
15	1	10" DOUBLE TIPPING VALVE	303-73-2-0309 01
16	1	PHOTOHELIC GAGE & PIPING ASSEMBLY	325-75-2-2003 04
17	2	PRESSURE GAGE, 1/4" NPT BOTTOM CONNECTION 0-160 PSI	500-01-0-6007 00
18	2	3 1/2" DIA FACE, BLACK STL CASE, MARSHALLTOWN FIG. 23	
19	2	COUPLING 1/4" NPT 150# M.I.	000-00-5-3095 00
20	1	PETCOCK, 1/4" NPT, CRANE #700 OR EQUAL	
21	16	1" X 1/8" X 5'-0" LG. J-CAULK NO. 7446 BURNSTINES	000-02-0-0176 51
22	16	HEX HD CAP SCREW 1/2" 13NC X 1 1/2" LG ZINC PL	040-00-4-0022 49
23		HEX NUT 1/2" 13NC ZINC PL	040-00-0-4420 00
24			
25	2	HEX HD CAP SCREW 3/8" 16NC X 1 1/4" LG ZINC PL	040-00-4-0022 16
26	2	HEX NUT 3/8" 16NC ZINC PL	040-00-4-0022 28
27	1	VALVE COVER PLATE.	336-99-2-2011 01
28	1	OUTLET DUCT	336-02-3-1528 01
29	48	HEX NUT 3/4" 10NC ASTM-A325	
30	48	PLAIN FLAT WASHER 3/4" DIA ASTM-A325	040-00-4-0002 54
31	1	PIPE 1/4" SCH 40 X 9' LG T.B.E.	
32	8	HARDENED BEVEL WASHER 3/4" DIA. ASTM-F436	
33	8	HEAVY HEX NUT 3/4" 10NC ASTM-A363, GRADE C	
34	56	HEX HD BOLT 3/4" 10NC X 2" LG ASTM-A325	040-00-4-0022 26
35	1	WJ-10 TIMER, NEMA 4, 115V/1PH/60HZ (NOT SHOWN)	315-84-4-3019 00

SECTION "E-E"



DETAIL F

BAG & CAGE INSTALLATION

INSERT BAG INTO OPENING IN TUBE SHEET. COMPRESS CUFF END INTO KIDNEY SHAPE, POSITION SO ONE BEADED FELT IN THE CUFF IS BELOW THE TUBE SHEET AND ONE ABOVE, THEN RELEASE IT TO FORM A SEAL.

CHECK SEAL AROUND THE BAG CUFF PRIOR TO INSTALLING BAG CAGES. USE CARE WHEN HANDLING AND INSERTING BAG CAGES INTO BAGS. DO NOT DROP CAGES INTO THE BAGS.

WHEN REINSTALLING BLOW TUBES, BE SURE HOLES IN BLOW TUBES ARE CENTERED OVER BAGS.

DESIGN DATA	
1. MODEL	--- 225C10
2. APPLICATION	--- RAW MATERIAL
3. GAS VOLUME	--- 11700 ACFM
4. OPERATING TEMPERATURE	--- 108° F
5. DESIGN PRESSURE	--- -20" W.G.
6. FILTER MEDIA	--- POLYESTER
7. BAG SIZE	--- 5" DIA X 10'-0" LG
8. NUMBER OF BAGS (TOTAL)	--- 225
9. TOTAL CLOTH AREA	--- 2930 FT ²
10. AIR TO CLOTH RATIO	--- 4.0 : 1
11. COMPRESSED AIR CONSUMPTION	--- 120 SCFM @ 90-100 PSIG

REV. NO.	DR.	CHD.	APPR.	DATE	ZONE	MICRO	ITEM # 2 THRU 6 WERE 336-99-4-0554
2	VEH	EL	JFS	23JUL02	27AUG02		REVISED PER CUSTOMER MARKED DRAWING DATED 17APR02
1	VEH	EL	JFS				THIS DATA IS THE PROPERTY OF AND IS PROPRIETARY TO FLS miljø Inc. INCORPORATED AND SHALL NOT BE DISCLOSED TO, NOR USED BY, ANY THIRD PARTIES WITHOUT EXPRESS WRITTEN CONSENT BY FLS miljø Inc.

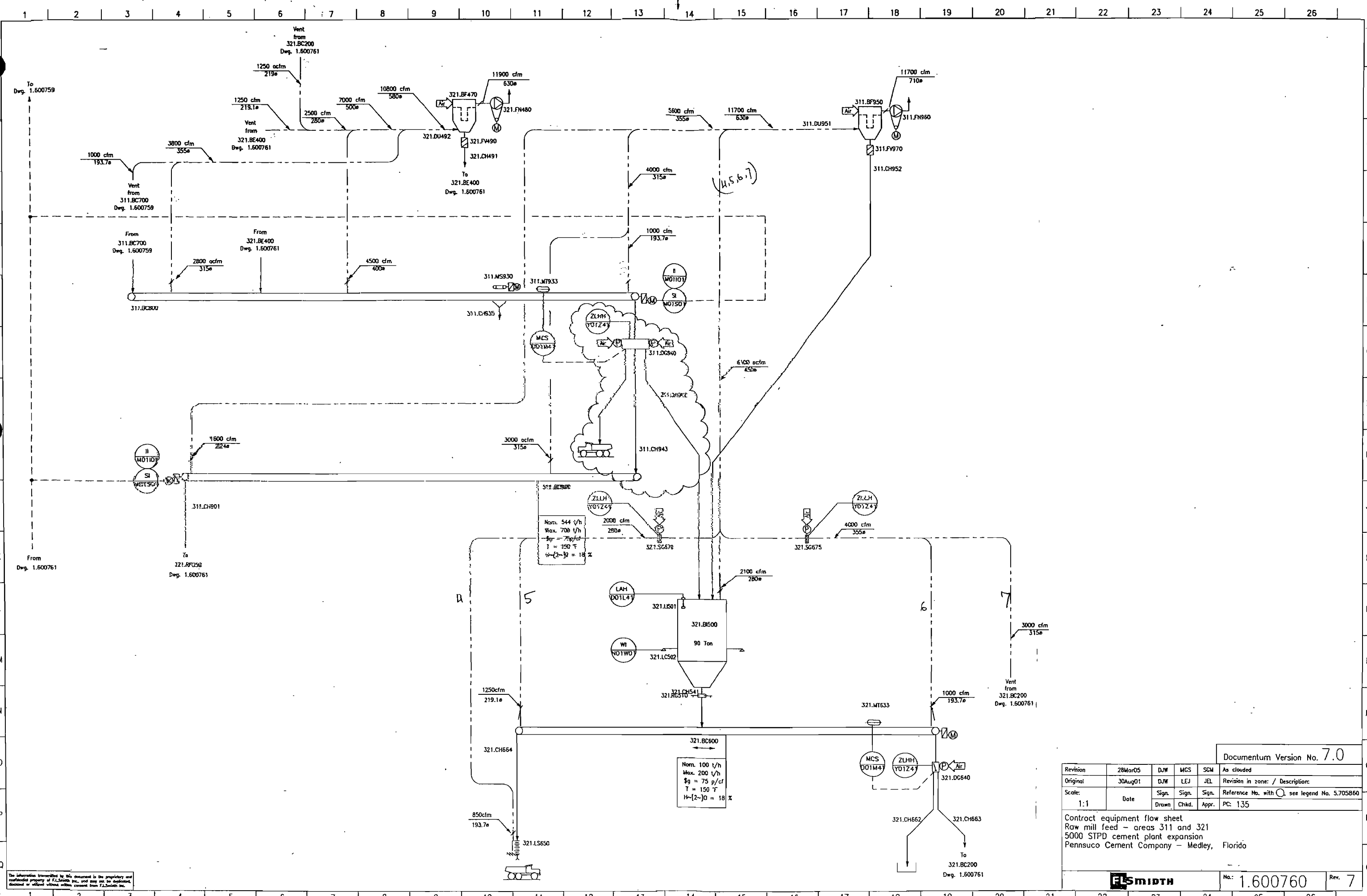
FLS miljø Inc.
Bethlehem, Pa. 18017 USA

TAG EQUIPMENT AS FOLLOWS	
PENNSUCO CEMENT COMPANY	CONTRACT No. 15-01-20133
P.O. No. 4-01-20133-14117	
EQUIPMENT No.s	
DUST COLLECTOR - 311.BF050	
TIPPING VALVE - 311.FV070	

DR. DMR	GENERAL ARRANGEMENT	
CHD. EL	MODEL SIZE 225C10	
APPR. JFS	JET PULSE COLLECTOR	
DATE 28MAR02	PENNSUCO CEMENT COMPANY	MEDLEY, FL.
SCALE 3/8"=1'	DRAWING NUMBER	REV. SHEET
MICRO	336-02-4-0136 2	NO. 1 OF 1

NOTE TO ERECTOR

DIMENSIONS ARE NOMINAL AND NOT TOLERANCED. NORMAL ERECTION OPERATIONS INCLUDE THE CORRECTION OF MINOR MISFITS BY MODERATE AMOUNTS OF STRAIGHTENING, SHIMMING, REAMING, CHIPPING, CUTTING OR GRINDING FOR PROPER FITUP OF ELEMENTS. MISFITS WHICH CANNOT BE CORRECTED BY THE FOREGOING MEANS OR WHICH REQUIRE MAJOR CHANGES IN EQUIPMENT CONFIGURATION ARE TO BE REPORTED IMMEDIATELY TO THE SUPPLIER EITHER TO CORRECT THE MISFIT OR TO APPROVE THE MOST EFFICIENT AND ECONOMIC METHOD OF CORRECTION TO BE IMPLEMENTED.



Revision	28Mar05	DJW	MGS	SEM	As clouded
Original	30Aug01	DJW	LEJ	JEL	Revision in zone: / Description:
Scale:	Date	Sign.	Sign.	Sign.	Reference No. with  , see legend No. 5.705860
1:1		Drawn	Chkd.	Appr.	PC: 135

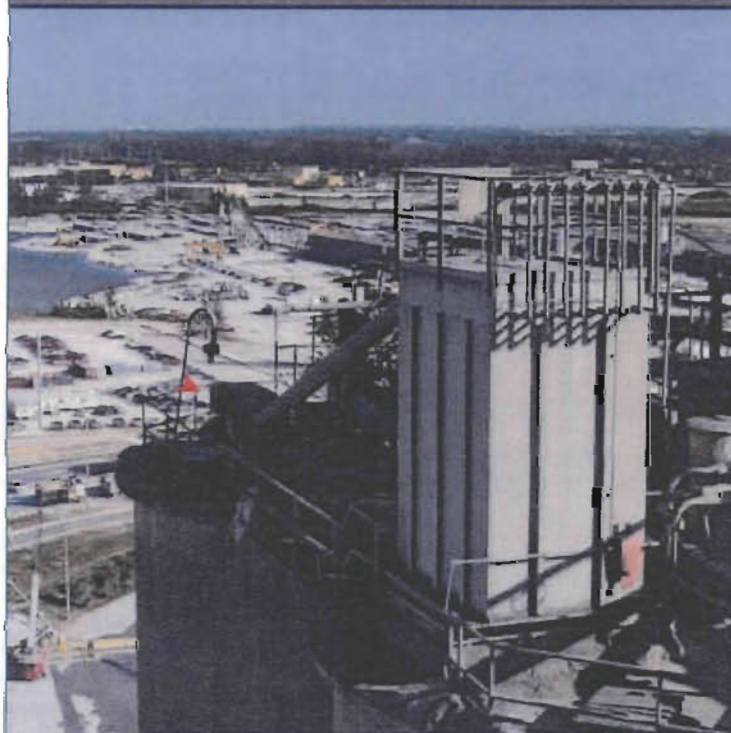
Contract equipment flow sheet
Raw mill feed - areas 311 and 321
5000 STPD cement plant expansion
Pennsuko Cement Company - Medley, Florida

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
F-511**

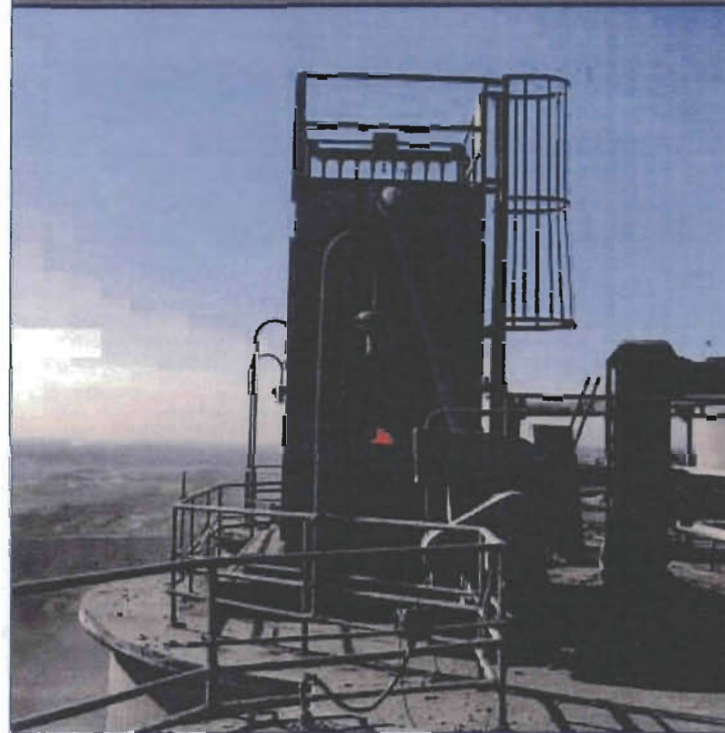


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-511
Control Equipment Make	Model #	# of Bags	
Fuller	2 zone #78	156	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
18000	1625	11.0:1	200



EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-512
Control Equipment Make	Model #	# of Bags	
Norblo	156 AMT	156	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
10000	2142	2.3:1	200





12201
Here is a
copy of the list
from Tony
PLC

EU ID	010	Finish Mill #1					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-113 Mikropul 16PF-10-20 168 11800 10,500 2100 106

F-130 ~~Norblo~~ *converted to BHA* 468 AMT 468 200 12000 16480 1973927 100

A pickups

EU ID	011	Finish Mill #2 <i>To be shut down?</i>					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-213 Mikropul 16PF-10-20 168 11800 10,500 2100 106

F-230 ~~Norblo~~ *converted to BHA* 468 AMT 468 200 12000 16480 1973927 100

EU ID	012	Finish Mill #3					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-313 Mikropul 196S-10-20 196 8000 2300 110

F-330 ~~Norblo~~ *converted to BHA* 702 AMT 702 20000 9477 110

F-332 ~~Norblo~~ *converted to BHA* 398 AMT 398 336 13500 25000 52655497 110

EU ID	013	Finish Mill #4					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

F-430 Fuller 6 zone #96 576 30000 ? 6028 150

F-432 Fuller 5 zone #48 240 17000 ? 2510 150

F-228 ~~730~~ Fuller ~~6 zone #96~~ *1680 228* ~~20000~~ *117000* ~~6028~~ *31688* 150

EU ID	014	Cement Storage <i>2MB40512(6)</i>					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

? F-511 ~~Fuller~~ *BHA* 2 zone #78 156 18000 1625 200

? F-512 ~~Norblo~~ *BHA* 156 AMT 156 10000 2142 200

F-513 Mikropul 121S-10-20B 121 5000 1424 200

F-514 Mikropul 121S-10-20B 121 5000 1424 200

F-515 Mikropul 121S-10-20B 121 5000 1424 200

EU ID	015	Bulk Cement Loadout					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-110 ~~Norblo~~ *BHA* 120 AMT 120 72 3000 2500 1650591 30

B-210 ~~Norblo~~ *BHA* 120 AMT 120 72 3000 2500 1650591 30

B-372 Mikropul 36S-8-30-C 36 2000 340 12

B-374 Mikropul 36S-8-30-C 36 2000 340 12

B-382 Mikropul 121S-10-20C 121 5000 1424 86

EU ID	016	Packhouse					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-621 Fuller 2 zone #78 156 12000 1632 40

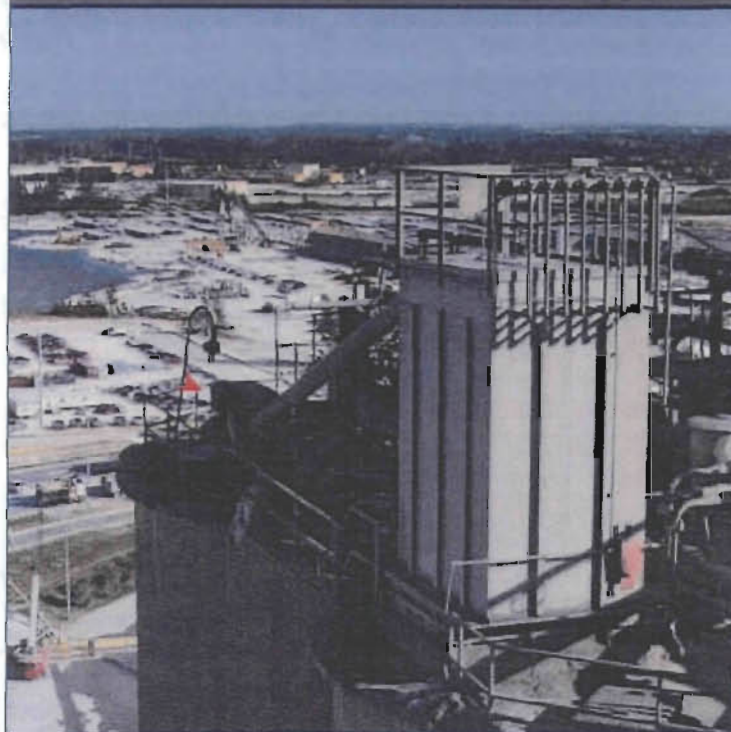
* - should be converted to Snap Band

CEMENT STORAGE, PACKHOUSE, AND LOADOUT
F-512

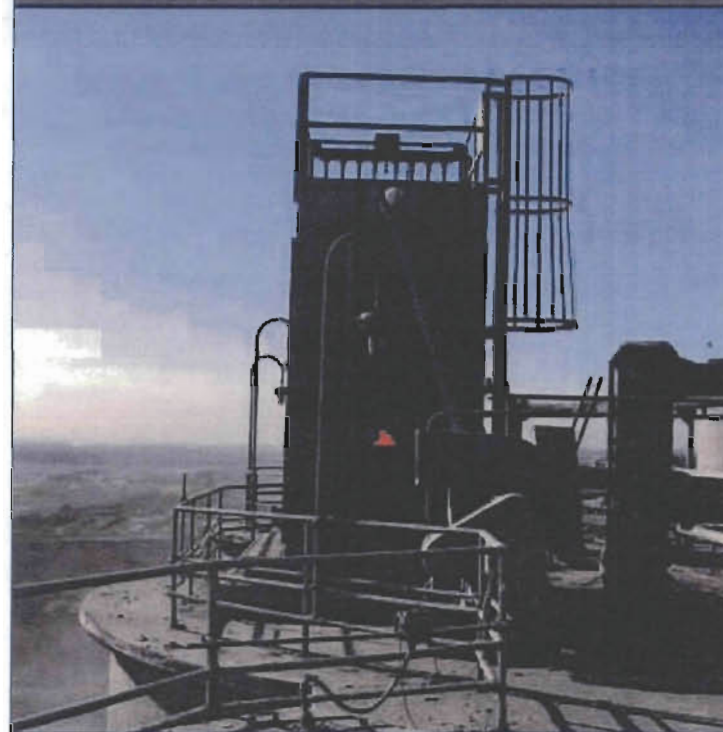


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-511
Control Equipment Make	Model #	# of Bags	
Fuller	2 zone #78	156	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
18000	1625	11.0:1	200



EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-512
Control Equipment Make	Model #	# of Bags	
Norblo	156 AMT	156	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
10000	2142	2.3:1	200



Emission Control Equipment
Aug05



LEAVE HERE
COPY OF THE LIST FROM TONY
R10

EU ID	010	Finish Mill #1					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-113 Mikropul 168S 16FF-10-20 168 11800 10,500 2100 106

F-130 Norblo ~~to BHA~~ 468 AMT 468 200 12000 16480 19713927 106

EU ID	011	Finish Mill #2 To be shut down?					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-213 Mikropul 168S 16FF-10-20 168 11800 10,500 2100 106

F-230 Norblo ~~to BHA~~ 468 AMT 468 200 12000 16480 6458 3927 106

EU ID	012	Finish Mill #3					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-313 Mikropul 196S-10-20 196 8000 2300 110

F-330 Norblo ~~BHA~~ 702 AMT 702 20000 9477 110

F-332 Norblo ~~BHA~~ 300 AMT 300 336 13500 25200 5265 497 110

EU ID	013	Finish Mill #4					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

F-430 Fuller 6 zone #96 576 30000 ? 6028 150

F-432 Fuller 5 zone #48 240 17000 ? 2510 150

F-228 730 Fuller 6 zone #96 1680 20000 117000 6028 31688 150

EU ID	014	Cement Storage 2MB40S12(L)					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

? F-511 Fuller ~~BHA~~ 2 zone #78 156 18000 1625 200

? F-512 Norblo ~~BHA~~ 156 AMT 156 10000 2142 200

F-513 Mikropul 121S-10-20B 121 5000 1424 200

F-514 Mikropul 121S-10-20B 121 5000 1424 200

F-515 Mikropul 121S-10-20B 121 5000 1424 200

EU ID	015	Bulk Cement Loadout					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-110 Norblo ~~BHA~~ 120 AMT 120 72 3000 2500 1650 591 30

B-210 Norblo ~~BHA~~ 120 AMT 120 72 3000 2500 1650 591 30

B-372 Mikropul 36S-8-30-C 36 2000 340 12

B-374 Mikropul 36S-8-30-C 36 2000 340 12

B-382 Mikropul 121S-10-20C 121 5000 1424 86

EU ID	016	Packhouse					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-621 Fuller 2 zone #78 156 12000 1632 40

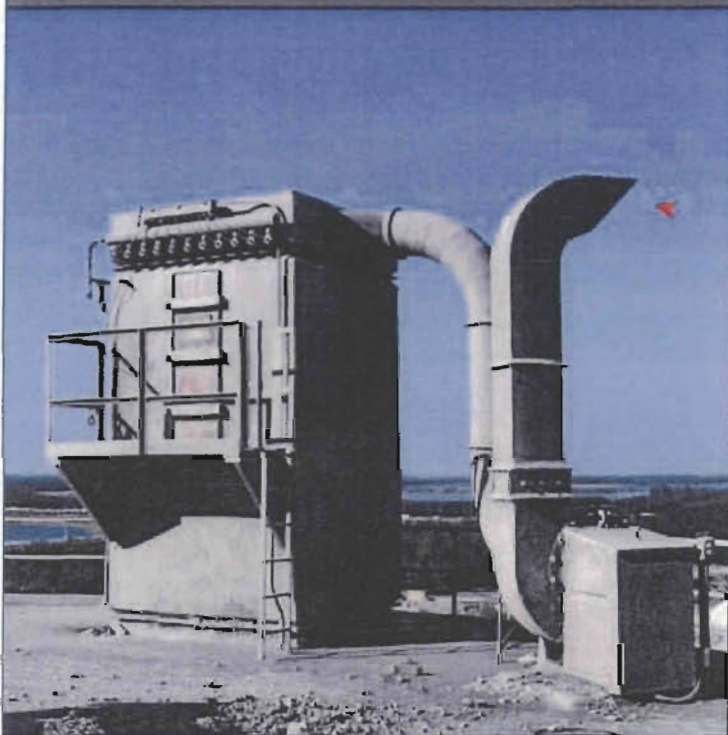
* - should be converted to Snap Band

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
F513**



Pennsuco Cement

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-513
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20B	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	5.4:1	200



EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-514
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20B	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	5.4:1	200



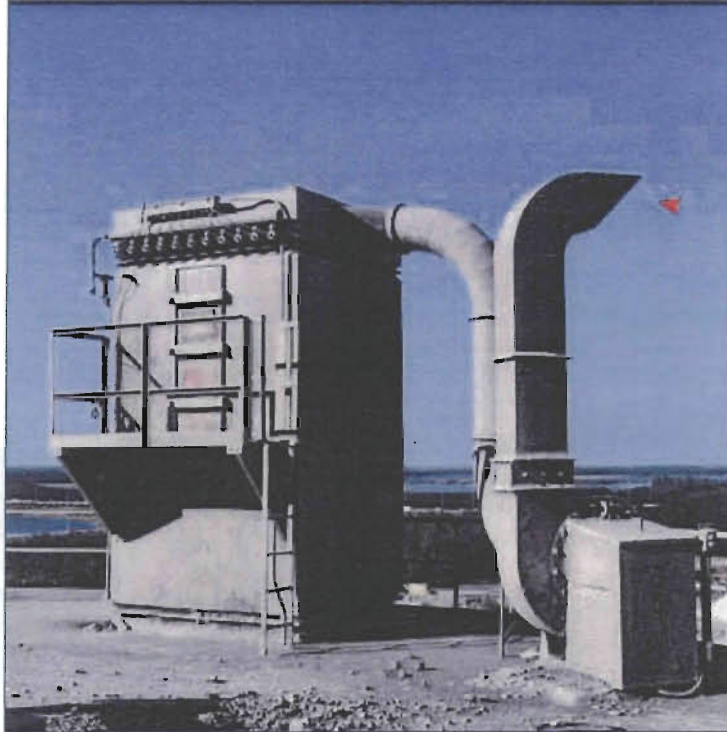
Emission Control Equipment
Aug05

CEMENT STORAGE, PACKHOUSE, AND LOADOUT
F-514



Pennsuco Cement

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-513
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20B	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	5.4:1	200



Emission Control Equipment
Aug05

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-514
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20B	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	5.4:1	200



**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
F-515**



Pennsuco Cement

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-515
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20B	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	5.4:1	200



EU ID#	EU Source		BF Unit ID
015	Bulk Cement Loadout		B-110
Control Equipment Make	Model #	# of Bags	
Norblo	120 AMT	120	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3000	1650	1.8:1	30



CEMENT STORAGE, PACKHOUSE, AND LOADOUT
B-110



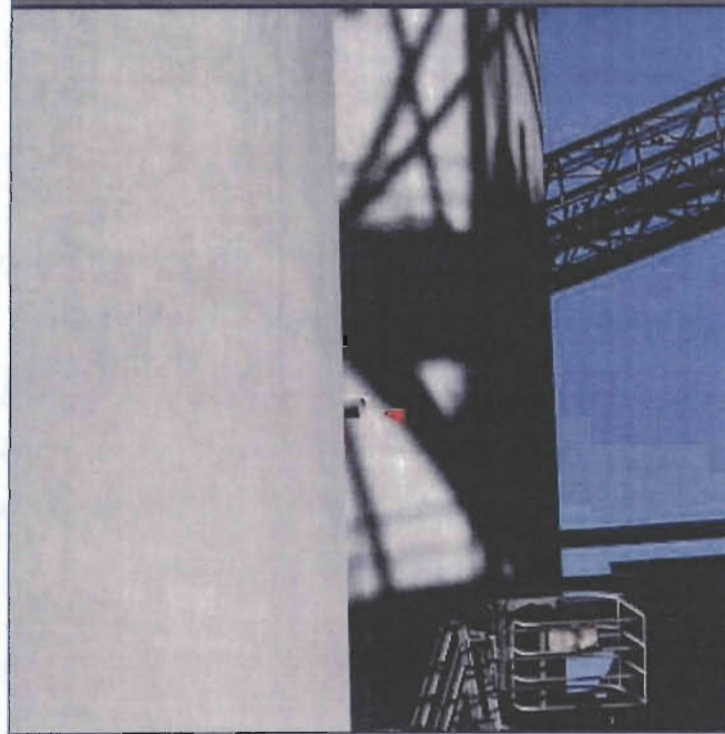
Pennsuco Cement

EU ID#	EU Source		BF Unit ID
014	Cement Storage		F-515
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20B	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	5.4:1	200



Emission Control Equipment
Aug05

EU ID#	EU Source		BF Unit ID
015	Bulk Cement Loadout		B-110
Control Equipment Make	Model #	# of Bags	
Norblo	120 AMT	120	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3000	1650	1.8:1	30



PULSE-JET CONVERSION FOR TARMAC AMERICA INC. MEDLEY, FL

APPLICATION & DESIGN SPECIFICATIONS:

APPLICATION:	TRUCK LOADING VENTILATION	
DUST:	CEMENT	
AIR VOLUME:	2,500 ACFM	4,250 m ³ /hr.
FILTER AREA:	1,591 FT ²	147.8 m ²
AIR-TO-CLOTH RATIO:	1.57 CFM/FT ²	0.48 m ³ /min./m ²
MAX. FILTER TEMP:	285° F	129° C
DESIGN PRESSURE:	±20" W.G.	508mm W.G.

COMPRESSED AIR REQUIREMENTS

• 90-100 PSIG (CLEAN, DRY, & OIL FREE)
NORMAL: 18 SCFM (15 SEC. BETWEEN PULSES)
MAXIMUM: 45 SCFM (6 SEC. BETWEEN PULSES)

FILTER TYPE	RECOMMENDED INITIAL PRESSURE SETTING
BAG	80 PSIG
PLEATED (CARTRIDGE)	60 PSIG

SHOP NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL STRUCTURAL STEEL SHAPES AND PLATE 3/16" AND THICKER ARE TO BE ASTM A36 STEEL. ALL SHEET TO BE ASTM A569 STEEL. ALL PIPE TO BE ASTM A500 GRADE B STEEL.

2. GRIND SMOOTH ALL BURRS, SHARP EDGES AND WELD SPATTER. REMOVE ALL LOOSE MILL SCALE, RUST ETC, AS OUTLINED IN, "STEEL STRUCTURES PAINTING COUNCIL" SPEC. NO. 3, POWER TOOL CLEANING, (SSPC SP3). IN ACCORDANCE WITH PAINT MANUFACTURERS SPECIFICATIONS, FINISH PAINT PARTS INDICATED BY *** WITH SHERWIN-WILLIAMS METALASTIC DIRECT-TO-METAL ACRYLIC MODIFIED ENAMEL SERIES B55Z-600, SLATE GRAY #SW4026, 3-5 MILS DFT MIN. PRIME PAINT PARTS INDICATED BY ** AND BOTH SIDES OF TUBESHEET WITH ONE COAT OF SHOP GRAY PRIMER, 1 MIL DFT MIN. NOTE: THERE MUST NOT BE ANY DRIPS OR EXCESS PAINT ON THE INSIDE OF THE TUBESHEET HOLES.

3. ALL ITEMS ARE TO BE INSPECTED IN ACCORDANCE WITH BHA PROCEDURE SPS-1046 "QUALITY REQUIREMENTS FOR SUBCONTRACTED FABRICATION".

4. ALL FABRICATED PIECES TO BE MARKED WITH PART NUMBERS.

5. ALL ITEMS ARE TO BE PREPARED FOR SHIPMENT IN ACCORDANCE WITH BHA PROCEDURE SPS-1016 "GENERAL REQUIREMENTS FOR PACKAGING & SHIPPING OF FABRICATED PARTS".

6. I.D. PLATE (P/N 100-0273) TO BE METAL STAMPED AS FOLLOWS:

TO BE PLACED ON DOOR 843-7215
EQUIPMENT I.D.: WEST LOAD OUT
P.O. NUMBER: PNC0034028
BHA JOB/PART NUMBER: 210214

TO BE PLACED ON DOOR 843-4901
EQUIPMENT I.D.: EAST LOAD OUT
P.O. NUMBER: PNC0034028
BHA JOB/PART NUMBER: 210214

FIELD NOTES:

1. REMOVE EXISTING TUBESHEETS, BAG RACKS AND DIVIDER WALLS IN ALL COMPARTMENTS TO BE CONVERTED. COMPARTMENT THAT IS NOT CONVERTED TO HAVE TUBESHEET AND BAGS REMOVED.

2. OUTLET DAMPERS: DAMPERS IN THE COMPARTMENTS BEING CONVERTED ARE TO BE SECURELY FIXED IN THE OPEN POSITION. REVERSE AIR DOOR TO BE SEALED IN THE CLOSED POSITION.

3. UNCONVERTED COMPARTMENT DAMPER TO BE DISABLED, FIXED IN THE CLOSED POSITION AND SEALED AIR TIGHT.

4. ALL EXISTING ACCESS DOORS TO BE SEALED AIR TIGHT TO ASSURE AN AIR-TIGHT HOUSING.

5. EXISTING HOUSING STIFFENERS TO BE PARTIALLY CUT (AS REQ'D) AT NEW NIPPLE PIPE LOCATIONS.

6. SILICONE SEAL EXISTING WALL PANEL JOINTS INSIDE HOUSING 12" ABOVE AND BELOW NEW TUBESHEET. THIS IS NECESSARY BECAUSE EXISTING WALL PANEL JOINT SEAL MAY BE DAMAGED DUE TO HEAT OF WELDING NEW TUBESHEET TO EXISTING WALLS.

7. TOP OF EXISTING ACCESS DOORS IN COMPARTMENTS BEING CONVERTED TO BE COVERED WITH SHT, 10 GA. (ITEM #37). WELD SHEET FLUSH WITH INSIDE OF HOUSING WALL FOR NEW TUBESHEET INSTALLATION. NOTE - FIELD CUT TO EXACT SIZE REQUIRED.

REFERENCE DRAWINGS:

WIRING DIAGRAM: 850-1004

QUANT. SHOWN ARE FOR (2) UNITS

1	40	844-6059-216	PLATFORM SUPPORT BRACKET - DETAIL "B" - OPPOSITE	D 844-6059
1	39	844-6059-215	PLATFORM SUPPORT BRACKET - DETAIL "B" - AS SHOWN	D 844-6059
1	38	843-7215	ACCESS DOOR, LEFT HAND, CENTER PIVOT, 20" X 48"	D 843-7215
5	37	05H003	SHT, 10 GA., 1'-6" X 1'-3"	
4	36	844-2553	LADDER FOOTING	B 844-2553
1	35	844-6227	ACCESS PLATFORM	D 844-6227
1	34	844-6228	CAGED LADDER	D 844-6228
144	33	306-6086	CFAPED059,HT-CART,JIG #032	
144	32	400-2126	CART,048,PEB06,MTA,6.25X39.625	
2	31	819-0534	CONTROLLER,SEQ,10-STEP P.O.D.	
	30			
2	29	703-0177	CPLG,FULL,1/8 NPT,BLK,#150	
1	28	844-5898-108	PIPE SUPPORT, PLATFORM	D 844-5898
1	27	844-6059-201	PLATFORM SUPPORT BRACKET - DETAIL "B" - OPPOSITE	D 844-6059
1	26	844-6059-200	PLATFORM SUPPORT BRACKET - DETAIL "B" - AS SHOWN	D 844-6059
1	25	844-5295	ACCESS PLATFORM	D 844-5295
1	24	844-6226	LADDER	D 844-6226
1	23	843-4901	ACCESS DOOR, CENTER PIVOT, 20" X 48"	D 843-4901
16	22	700-0012	WASHER,FLAT 1/2 TYPE A,N PL	
8	21	700-0015	WASHER,LOCK 1/2 MED SPRG PL	
8	20	701-0061	NUT,HEX 1/2-13NC GS PL	
8	19	702-0069	BOLT,HEX 1/2-13NC X 1 3/4" GS PL	
2	18	820-0153	MAGNETIC GAUGE KIT	D 820-0153
2	17	822-0547	1" AIR FILTER & REGULATOR ASSY. 0-125 PSI	A 822-0547
8	16	AN001	1.2X2X1/4X 10'-0" LG. (CUT TO LENGTH IN FIELD)	
2	15	704-0048	TOUCH-UP PAINT,GRAY SW-4026,1 QUART	
1	14	704-0035	TOUCH-UP PRIMER,SHOP GRAY,1 GALLON	
2	13	820-1138	SURGE VALVE KIT	D 820-1138
2	12	350-0901	SILICONE SEALER	
2	11	843-6105	PRESSURE CONNECTION PIPE PLATE	D 843-6105
12	10	820-1159	SAFETY SNAP PIN 304 S.S.	B 820-1159
24	9	807-0058	CLAMP 2"-3"	
12	8	820-0220	HOSE,1 7/8" I.D. X 0'-4"	B 820-0220
4	7	843-2068-300	AIR HEADER MOUNTING BRACKET	D 843-2068
4	6	841-0148	NIPPLE PLATE	D 841-0148
4	5	841-0147	BLOWPIPE SUPPORT	D 841-0147
2	4	841-0917-100	AIR HEADER	D 841-0917
12	3	841-0510	BLOWPIPE	D 841-0510
	2			
4	1	817-2219	TUBESHEET	D 817-2219

QTY.	REV. NO.	PART NO.	DESCRIPTION	DRAWING NUMBER
210214	CUSTOMER: TARMAC AMERICA INC.			PULSE-JET CONVERSION TITLE SHEET & BOM
	LOCATION: MEDLEY, FL			
	CUSTOMER EQUIPMENT ID#:			
	DESIGNED BY: JAC			
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EU ID	010	Finish Mill #1					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	* F-113	Mikropul	168S 168F-10-20	168	11800	10,500?	2100 106
	F-130	Norblo	converted to BHA 468 AMT	468	200	12000 16480	1975927 108

4 pickups

EU ID	011	Finish Mill #2 To be shut DOWN?					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	* F-213	Mikropul	168S 168F-10-20	168	11800	10,500?	2100 106
	F-230	Norblo	converted to BHA 468 AMT	468	200	12000 16480	6450 3927 108

Flashed

EU ID	012	Finish Mill #3					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	* F-313	Mikropul	196S-10-20	196	8000		2300 110
	F-330	Norblo	BHA 702 AMT	702	20000		9477 110
	F-332	Norblo	BHA 390 AMT	390	336	13500 25200	5265 497 110

ORIGINAL F-332 Deleted

EU ID	013	Finish Mill #4					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	F-430	Fuller	6 zone #96	576	30000	?	6028 150
	F-432	Fuller	5 zone #48	240	17000	?	2510 150
	F-728 730	Fuller	6 zone #96 1680 20000	1680	20000	117000	6028 31688 150

EU ID	014	Cement Storage 2MB40512(L)					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	? F-511	Fuller	BHA 2 zone #78	156	18000		1625 200
	? F-512	Norblo	BHA 156 AMT	156	10000		2142 200
	F-513	Mikropul	121S-10-20B	121	5000		1424 200
	F-514	Mikropul	121S-10-20B	121	5000		1424 200
	F-515	Mikropul	121S-10-20B	121	5000		1424 200

EU ID	015	Bulk Cement Loadout					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	B-110	Norblo	BHA 120 AMT	120	72	3000 2500	1650 591 30
	B-210	Norblo	BHA 120 AMT	120	72	3000 2500	1650 591 30
	B-372	Mikropul	36S-8-30-C	36	2000		340 12
	B-374	Mikropul	36S-8-30-C	36	2000		340 12
	B-382	Mikropul	121S-10-20C	121	5000		1424 86

EU ID	016	Packhouse					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL
	B-621	Fuller	2 zone #78	156	12000		1632 40

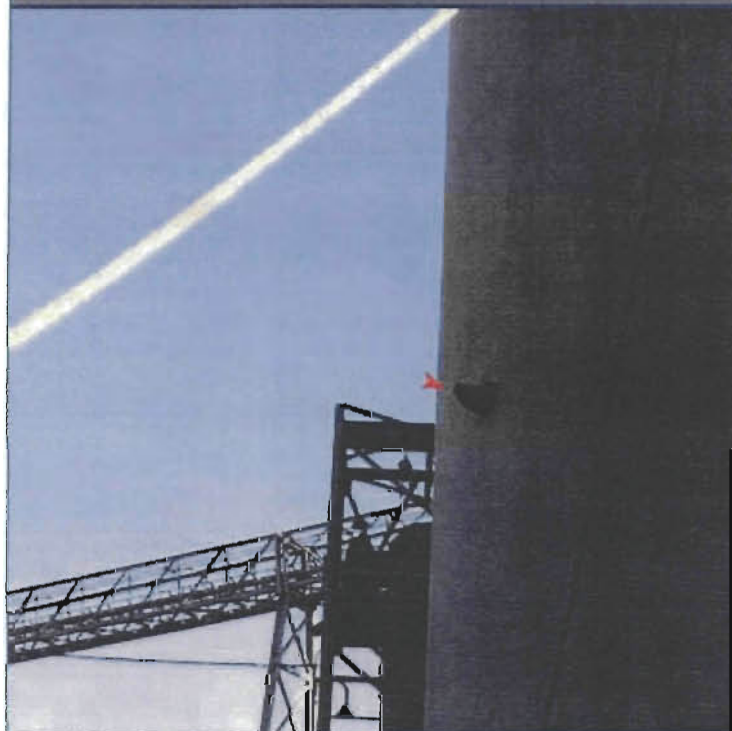
* - should be converted to Snap Band

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
B-210**

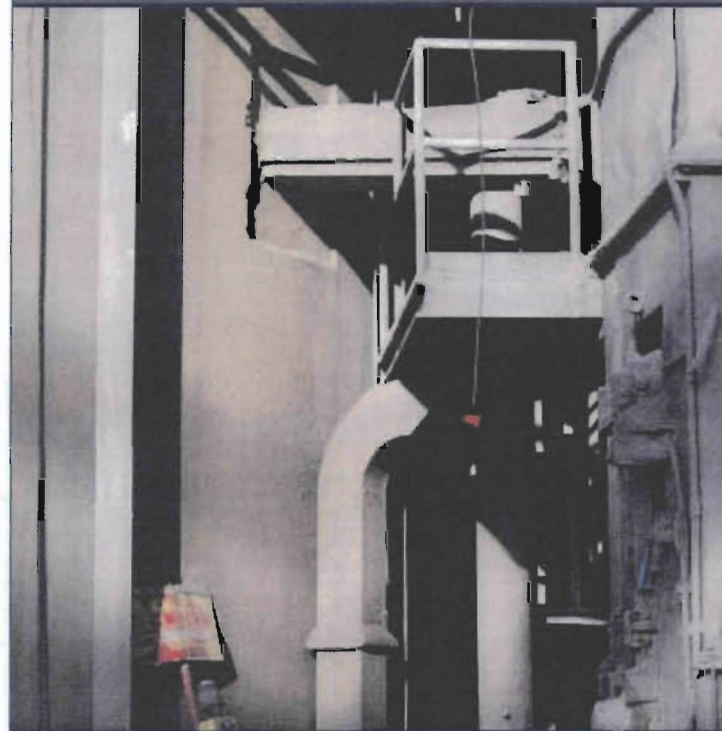


Pennsuco Cement

EU ID#	EU Source		BF Unit ID	
015	Bulk Cement Loadout		B-210	
Control Equipment Make	Model #		# of Bags	
Norblo	120 AMT		120	
CFM	Cloth Area - sqft		Air/Cloth Ratio	Vent AGL
3000	1650		1.8:1	30



EU ID#	EU Source		BF Unit ID	
015	Bulk Cement Loadout		B-372	
Control Equipment Make	Model #		# of Bags	
Mikropul	36S-8-30-C		36	
CFM	Cloth Area - sqft		Air/Cloth Ratio	Vent AGL
2000	340		5.9:1	12



Emission Control Equipment
Aug05

B-110, B-210

1	40	844-6059-216	PLATFORM SUPPORT BRACKET -- DETAIL "B" -- OPPOSITE	D 844-6059
1	39	844-6059-215	PLATFORM SUPPORT BRACKET -- DETAIL "B" -- AS SHOWN	D 844-6059
1	38	843-7215	ACCESS DOOR, LEFT HAND, CENTER PIVOT, 20" X 48"	D 843-7215
5	37	05H003	SHT, 10 GA, 1'-6" X 1'-3"	
4	36	844-2553	LADDER FOOTING	B 844-2553
1	35	844-6227	ACCESS PLATFORM	D 844-6227
1	34	844-6228	CAGED LADDER	D 844-6228
144	33	306-6086	CPAPE059,HT-CART,JIG #032	
144	32	400-2126	CART,D48,PEB06,MTA,B.25X39.625	
2	31	819-0534	CONTROLLER,SEQ,10-STEP P.O.D.	
	30			
2	29	703-0177	CPL6,FULL,1/8 NPT,BLK,#150	
1	28	844-5898-108	PIPE SUPPORT, PLATFORM	D 844-5898
1	27	844-6059-201	PLATFORM SUPPORT BRACKET -- DETAIL "B" -- OPPOSITE	D 844-6059
1	26	844-6059-200	PLATFORM SUPPORT BRACKET -- DETAIL "B" -- AS SHOWN	D 844-6059
1	25	844-5295	ACCESS PLATFORM	D 844-5295
1	24	844-6226	LADDER	D 844-6226
1	23	843-4901	ACCESS DOOR, CENTER PIVOT, 20" X 48"	D 843-4901
16	22	700-0012	WASHER,FLAT 1/2 TYPE A,N PL	
8	21	700-0015	WASHER,LOCK 1/2 MED SPRG PL	
8	20	701-0061	NUT,HEX 1/2-13NC G5 PL	
8	19	702-0069	BOLT,HEX 1/2-13NC X 1 3/4" G5 PL	
2	18	820-0153	MAGNETIC GAUGE KIT	D 820-0153
2	17	822-0547	1" AIR FILTER & REGULATOR ASSY. 0-125 PSI	A 822-0547
8	16	AN001	L22X21/4X 10'-0" LG. (CUT TO LENGTH IN FIELD)	
2	15	704-0048	TOUCH-UP PAINT,GRAY SW-4026,1 QUART	
1	14	704-0035	TOUCH-UP PRIMER,SHOP GRAY,1 GALLON	
2	13	820-1138	SURGE VALVE KIT	D 820-1138
2	12	350-0901	SILICONE SEALER	
2	11	843-6105	PRESSURE CONNECTION PIPE PLATE	D 843-6105
12	10	820-1159	SAFETY SNAP PIN 304 S.S.	B 820-1159
24	9	807-0058	CLAMP 2"-3"	
12	8	820-0220	HOSE,1 7/8" I.D. X 0'-4"	B 820-0220
4	7	843-2068-300	AIR HEADER MOUNTING BRACKET	D 843-2068
4	6	841-0148	NIPPLE PLATE	D 841-0148
4	5	841-0147	BLOWPIPE SUPPORT	D 841-0147
2	4	841-0917-100	AIR HEADER	D 841-0917
12	3	841-0510	BLOWPIPE	D 841-0510
	2			
4	1	817-2219	TUBESHEET	D 817-2219

QTY.	ITEM NO.	PART NO.	DESCRIPTION		DRAWING NUMBER
210214	CONTAINER	CARBAC AMERICA INC.	PULSE-JET CONVERSION TITLE SHEET & BOM	CHANGED BY AMS CREATED BY EJF CREATED BY ERJ APPROVED BY JAC SCALE N.T.S.	DATE 5-21-06 DATE 5-27-06 DATE 5-30-06 DATE 5-30-06 DATE 0 DATE 0
	LOCKING	MEDLEY, FL			
	CONTAINER IDENTIFY TAG				
	CONTAINER LIA NO.				
	CONTAINER P/N NO.				
	PH000340728				
	THIS SHEET IS:		THIS CHANGES THE INFORMATION CONTAINED IN IF ANY COMPONENT, AND THE PROPERTY OF THE OWNER, AND WILL BE SET IN TYPE FOR ALL PROJECTS. IT IS THE PROPERTY OF THE OWNER, AND WILL BE SET IN TYPE FOR ALL PROJECTS. IT IS THE PROPERTY OF THE OWNER, AND WILL BE SET IN TYPE FOR ALL PROJECTS.	REPAIR	REPAIR
	DATE HISTORY FILE:	TARFL-8010	REVISIONS (NUMBER, DATE, REVISION, REASON, REVISIONS IN P/N) (NUMBER, DATE, REVISION, REASON)	REVISIONS	REVISIONS
					210214

THIS DRAWING WAS CREATED USING AUTOCAD 2000i MECHANICAL PLOT SCALE:

APPLICATION: DUST:	TRUCK LOADING VENTILATION ⁶² CEMENT	
AIR VOLUME:	2,500 ACFM	4,250 m ³ /hr.
FILTER AREA:	1,591 FT ²	147.8 m ²
AIR-TO-CLOTH RATIO:	1.57 CFM/FT ²	0.48 m ³ /min./m ²
MAX. FILTER TEMP:	285° F	129° C
DESIGN PRESSURE:	±20" W.G.	500mm W.G.

● 90-100 PSIG (CLEAN, DRY, & OIL FREE)
NORMAL: 18 SCFM (15 SEC. BETWEEN PULSES)
MAXIMUM: 45 SCFM (6 SEC. BETWEEN PULSES)

FILTER TYPE	RECOMMENDED INITIAL PRESSURE SETTING
BAG	80 PSIG
PLEATED (CARTRIDGE)	60 PSIG

REFERENCE DRAWINGS:
WIRING DIAGRAM: 850-1004



[Large blacked-out redacted area]

EU ID	010	Finish Mill #1					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-113	Mikropul	168S	168F-10-20	168	11800	10,500?	2100	106
F-130	Norblo	converted to BHA	468 AMT	468	2000	16480	19713927	100

A pickups

EU ID	011	Finish Mill #2					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-213	Mikropul	168S	168F-10-20	168	11800	10,500?	2100	106
F-230	Norblo	converted to BHA	468 AMT	468	2000	16480	6450	3927

Edentree

EU ID	012	Finish Mill #3					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

* F-313	Mikropul	196S-10-20	196	8000.	2300	110
IF-330 ^{now 332}	Norblo BHA	702 AMT	702	20000	9477	110
(F-332)	Norblo BHA	300 AMT	300	336 13500 25000	5265 5497	110

EU ID	013	Finish Mill #4					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

F-430	Fuller	6 zone #96	576	30000	?	6028	150	
F-432	Fuller	5 zone #48	240	17000	?	2510	150	
F-228 230	Fuller	~~5 zone #96~~	~~1680~~	~~20000~~	~~117000~~	~~6028~~	~~31688~~	~~150~~

EU ID	014	Cement Storage					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

? F-511	Fuller	BHA	2 zone #78	156	18000		1625	200
? F-512	Norblo	BHA	156 AMT	156	10000		2142	200
F-513	Mikropul		121S-10-20B	121	5000		1424	200
F-514	Mikropul		121S-10-20B	121	5000		1424	200
F-515	Mikropul		121S-10-20B	121	5000		1424	200

EU ID	015	Bulk Cement Loadout					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-110	Norblo	BHA	120 AMT	120	72	3000	2500	1650	591	30
B-210	Norblo	BHA	120 AMT	120	72	3000	2500	1650	591	30
B-372	Mikropul		36S-8-30-C	36	2000		340			12
B-374	Mikropul		36S-8-30-C	36	2000		340			12
B-382	Mikropul		121S-10-20C	121	5000		1424			86

EU ID	016	Packhouse					
	Unit ID	Equip.MFG	Model	Bag#	CFM	Cloth Area (sqft)	Vent AGL

B-621	Fuller		2 zone #78	156	12000		1632			40
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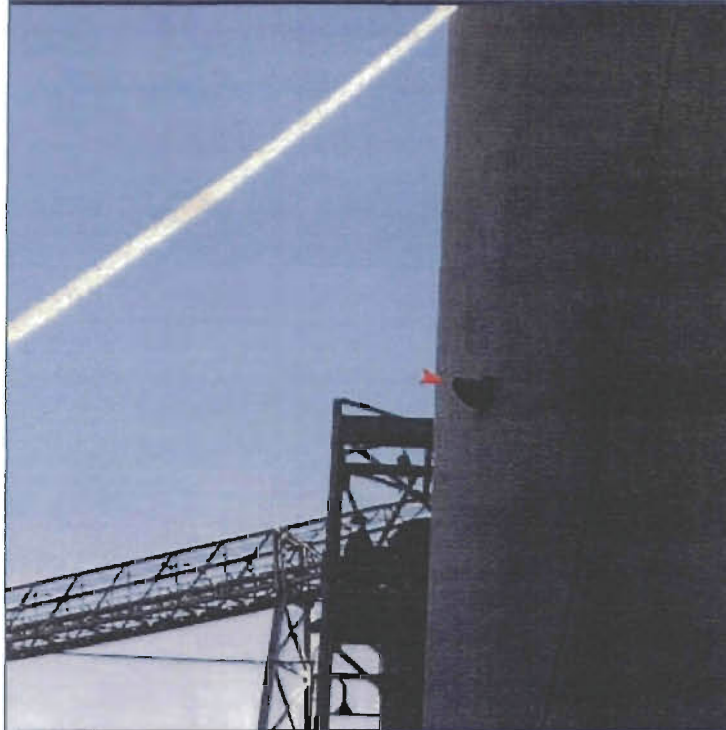
** - should be converted to Snap Band*

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
B-372**

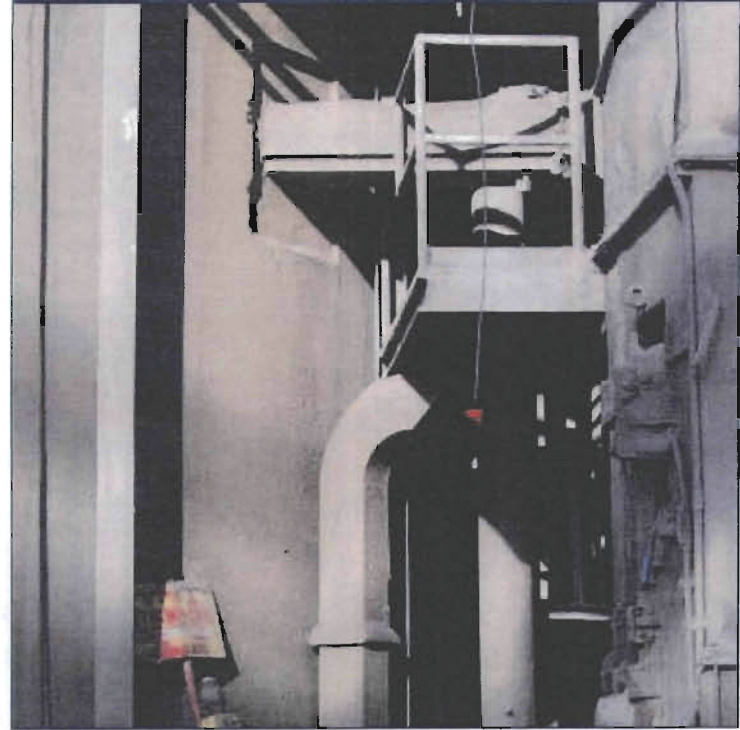


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
015	Bulk Cement Loadout		B-210
Control Equipment Make	Model #	# of Bags	
Norblo	120 AMT	120	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
3000	1650	1.8:1	30



EU ID#	EU Source		BF Unit ID
015	Bulk Cement Loadout		B-372
Control Equipment Make	Model #	# of Bags	
Mikropul	36S-8-30-C	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
2000	340	5.9:1	12



Emission Control Equipment
Aug05

B-372-H-5

B-374-H-4

MIKRO-PULSAIRE
DATA SHEET

CUSTOMER: STW CONSTRUCTION CO. DATE: 1-30
HIA LEAH, FL. P.O. NO. 8776
SERIAL NO. 80689H4.H5
UNIT SIZE 3658-30 REF. DWG. NO. 741644

CONSTRUCTION

PRODUCT CONTACT HRS
CLEAN GAS CONTACT HRS
VENTURIES ALUMINUM
RETAINERS HRS 2' LG.
FILTER BAGS POLY. HCE 8' LG.

ELECTRICALS

SOLENOID: 110 V 1 PH 60 HZ NEMA 4
TIMER: 1/2 7L 10 POSITION NEMA 4
WIRING DIAGRAM W- 497

EXHAUST FAN

DELIVERS _____ ACFM _____ SP. _____ TEMP. _____
DRIVE _____ HP _____ V _____ PH _____ HZ _____ RPM

AIRLOCK

TYPE 60217 RPM 29 SERIAL NO. 80689 A 8-A9
CONST. CAST IRON HSG STEEL ROTOR DEL RIN BLADES
DRIVE: 1/4 HP 230/460 V 3 PH 60 HZ 1700 RPM

SPECIAL FEATURES: _____

Qty. On Unit	Rec'md Spare Qty.	P/N	Description		Price/ Each
●	36	17426	Filter Bags <u>POLY. HCE</u> <u>8'</u> Lg.	1-99	\$ 6.95
				100-Up	\$ 6.05
36	4	2092	Filter Bag Retainer <u>HRS</u>	1-48	\$ 17.50
			<u>8'</u> Lg.	49-Up	\$ 9.95
1		132326	Timer Assembly Model 72 NEMA <u>4</u>		\$ 288.70
	1	132596	Timer Model 72 U.L. Label	1-3	\$175.25
				4-10	\$162.25
				11-20	\$149.30
				21-Up	\$136.30
1	1	131113	Fuse 1 Amp		\$ 1.65
6	1	13873	Right Angle Valve <u>3/4"</u>		\$ 15.80
	1	131310	Right Angle Valve Repair Kit		\$ 7.75
6	1	131289	Solenoid Valve <u>ASCO</u>		\$ 15.15
	1	131313	Solenoid Valve Repair Kit		\$ 8.85
36	4	121532	Venturi <u>ALUM.</u>	1-300	\$ 10.75
				300-Up	\$ 9.45
●	4	35711	Venturi Gasket <u>SILICONE</u>		\$.30
			Diaphragm Explosion Vent		\$
			Inner Frame		\$
			Outer Frame		\$
			Swing Type Explosion Vent		\$
			Fike Explosion Vent		\$
6	1	1895	3/4" Dresser Coupling Style 65B		\$ 11.20
		18186	3/4" Dresser Coupling Style 90 5"		\$ 18.95
		18383	3/4" Dresser Coupling Style 90 10"		\$ 25.95
		18222	1" Dresser Coupling Style 65B		\$ 10.75
36	4	15112	Filter Bag Clamp		\$ 2.05
		15221	Brixton Latch		\$ 41.00
1	1	21107	Manometer Assembly		\$ 49.95
		181094	Male Connector 1/4" Tube to 1/8" NPT		\$.75
6	1	18967	Elbow Connector 3/16" Tube to 1/8" NPT		\$ 1.50

NOTE: The above items which are marked with an (*), spare parts prices, may be obtained from the MikroPul Parts Sales Department, (201) 273-6360, upon request.

To determine performance at another RPM multiply:-

- 1 - CFM x K
- 2 - SP x K²
- 3 - BHP x K³

where K is new RPM divided by RPM shown at right.

PERFORMANCE CURVE

Customer's No. 80/11-6-3

Customer INDUSCO, INC.

Tagging D373 D374

Size 174

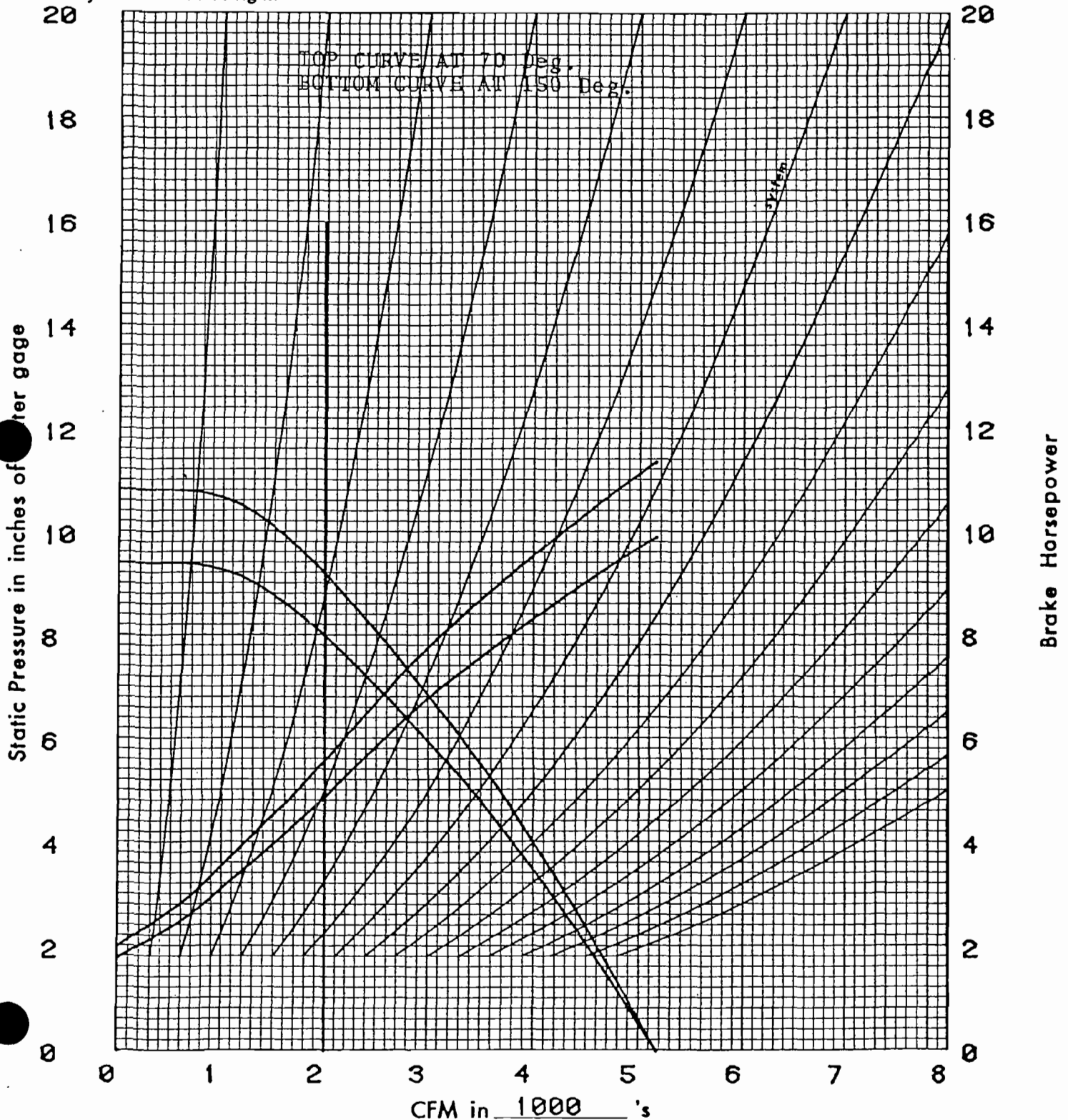
Type SERIES 15 GILS

2000 CFM at 9.2 "SP at 70 °F

at 2591 RPM at 5.57 BHP

File No. V-9976

Date 1-21-81

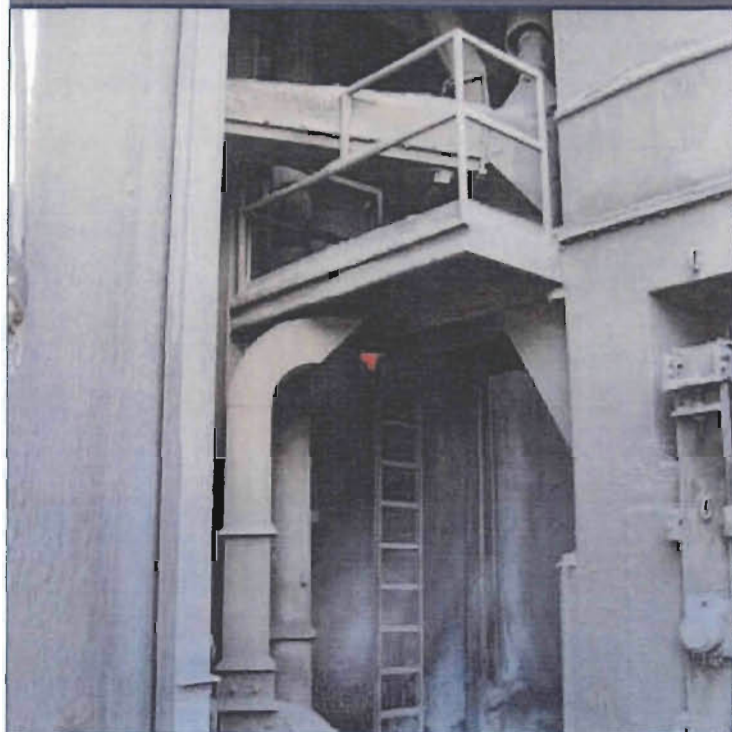


CEMENT STORAGE, PACKHOUSE, AND LOADOUT
B-374

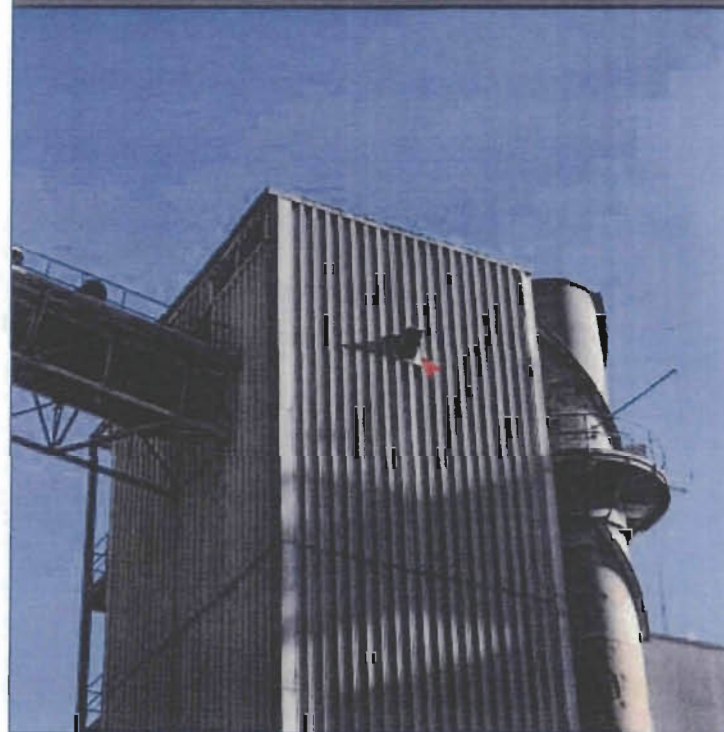


Pennsuco Cement

EU ID#	EU Source		BF Unit ID
015	Bulk Cement Loadout		B-374
Control Equipment Make	Model #	# of Bags	
Mikropul	36S-8-30-C	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
2000	340	5.9:1	12



EU ID#	EU Source		BF Unit ID
015	Bulk Cement Loadout		B-382
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20C	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	3.6:1	86



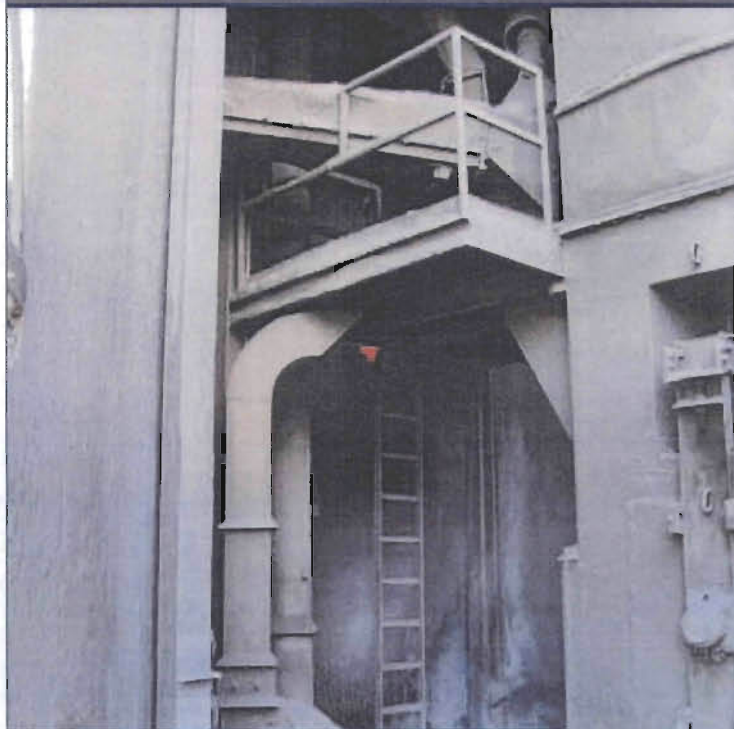
Emission Control Equipment
Aug05

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
B-382**

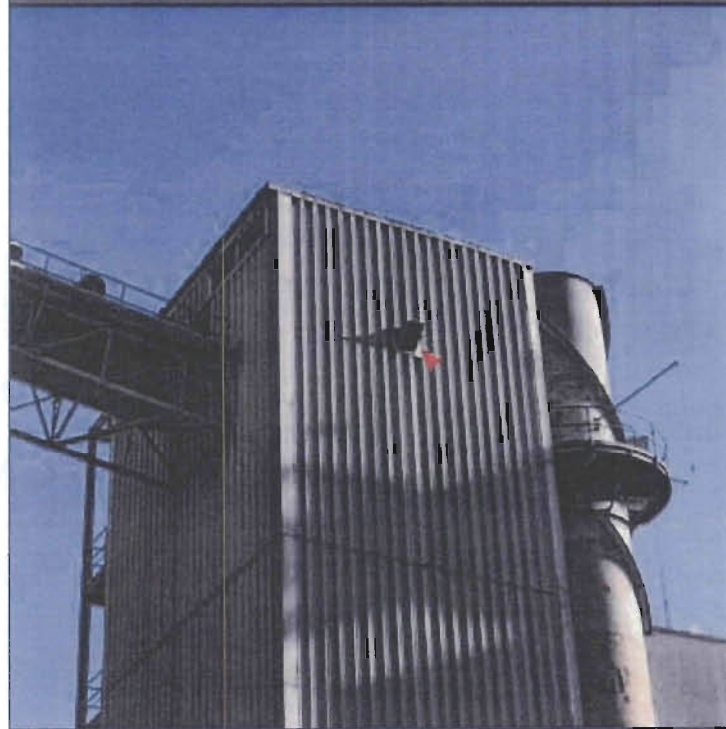


Pennsuco Cement

EU ID#	EU Source	BF Unit ID	
015	Bulk Cement Loadout	B-374	
Control Equipment Make	Model #	# of Bags	
Mikropul	36S-8-30-C	36	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
2000	340	5.9:1	12



EU ID#	EU Source	BF Unit ID	
015	Bulk Cement Loadout	B-382	
Control Equipment Make	Model #	# of Bags	
Mikropul	121S-10-20C	121	
CFM	Cloth Area - sqft	Air/Cloth Ratio	Vent AGL
5000	1424	3.6:1	86



Emission Control Equipment
Aug05

Qty.	Rec'd Spare Qty.	P/N	Description		Price/ Each
121	121	17588	Filter Bags <u>POLY. HCE</u> <u>10'</u> Lg.	1-99	\$ 8.70
				100-Up	\$ 7.55
121	12	20118	Filter Bag Retainer <u>HRS</u> <u>10'</u> Lg.	1-48	\$ 20.70
				49-Up	\$ 10.95
1		132326	Timer Assembly Model 72 NEMA <u>4</u>		\$ 288.70
	1	132596	Timer Model 72 U.L. Label	1-3	\$175.25
				4-10	\$162.25
				11-20	\$149.30
				21-Up	\$136.30
1	1	131113	Fuse 1 Amp		\$ 1.65
11	1	132081	Right Angle Valve <u>1"</u>		\$ 25.90
	1	131310	Right Angle Valve Repair Kit		\$ 7.75
11	1	131289	Solenoid Valve <u>ASCO</u>		\$ 15.15
	1	131313	Solenoid Valve Repair Kit		\$ 8.85
121	12	121532	Venturi <u>ALUMINUM</u>	1-300	\$ 10.75
				300-Up	\$ 9.45
	12	35711	Venturi Gasket <u>SILICONE</u>		\$.30
			Diaphragm Explosion Vent		\$
			Inner Frame		\$
			Outer Frame		\$
			Swing Type Explosion Vent		\$
			Fike Explosion Vent		\$
		1895	3/4" Dresser Coupling Style 65B		\$ 11.20
		18186	3/4" Dresser Coupling Style 90 5"		\$ 18.95
		18383	3/4" Dresser Coupling Style 90 10"		\$ 25.95
		18222	1" Dresser Coupling Style 65B		\$ 10.75
121	12	15112	Filter Bag Clamp		\$ 2.05
		15221	Brixton Latch		\$ 41.00
1	1	21107	Manometer Assembly		\$ 49.95
		181094	Male Connector 1/4" Tube to 1/8" NPT		\$.75
		18967	Elbow Connector 3/16" Tube to 1/8" NPT		\$ 1.50

The above items which are marked with an (*), spare parts prices, may be obtained from the MikroPul Parts Sales Department, (201) 273-6360, upon request.

To determine performance at another RPM multiply:-

- 1- CFM $\times$ K
- 2- SP $\times$ K²
- 3- BHP $\times$ K³

where K is new RPM divided by RPM shown at right.

PERFORMANCE CURVE

Customer's No. 80/11-6-3

Customer INDUSCO, INC.

Tagging D382

Size 294

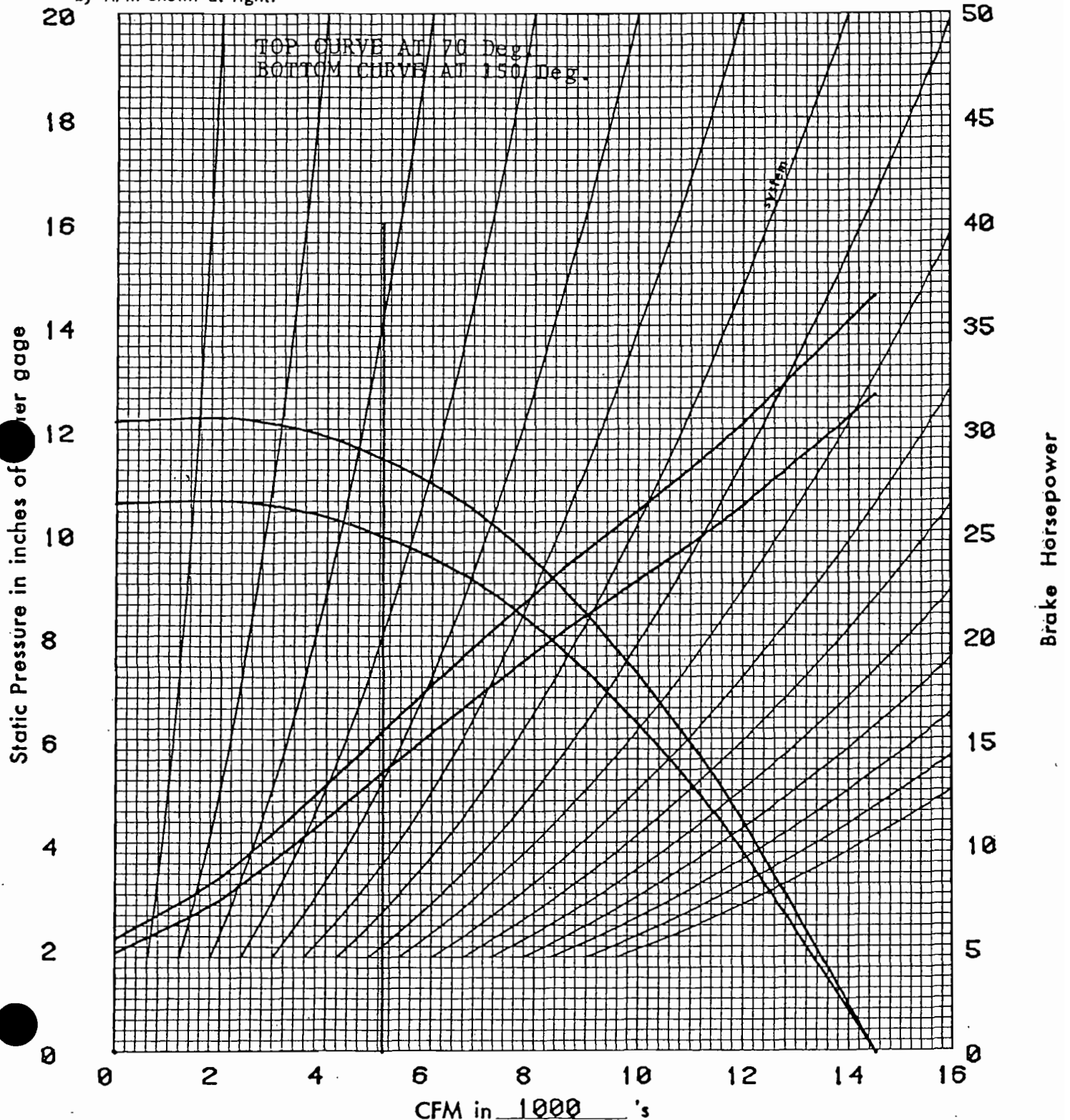
Type SERIES 15 GILS

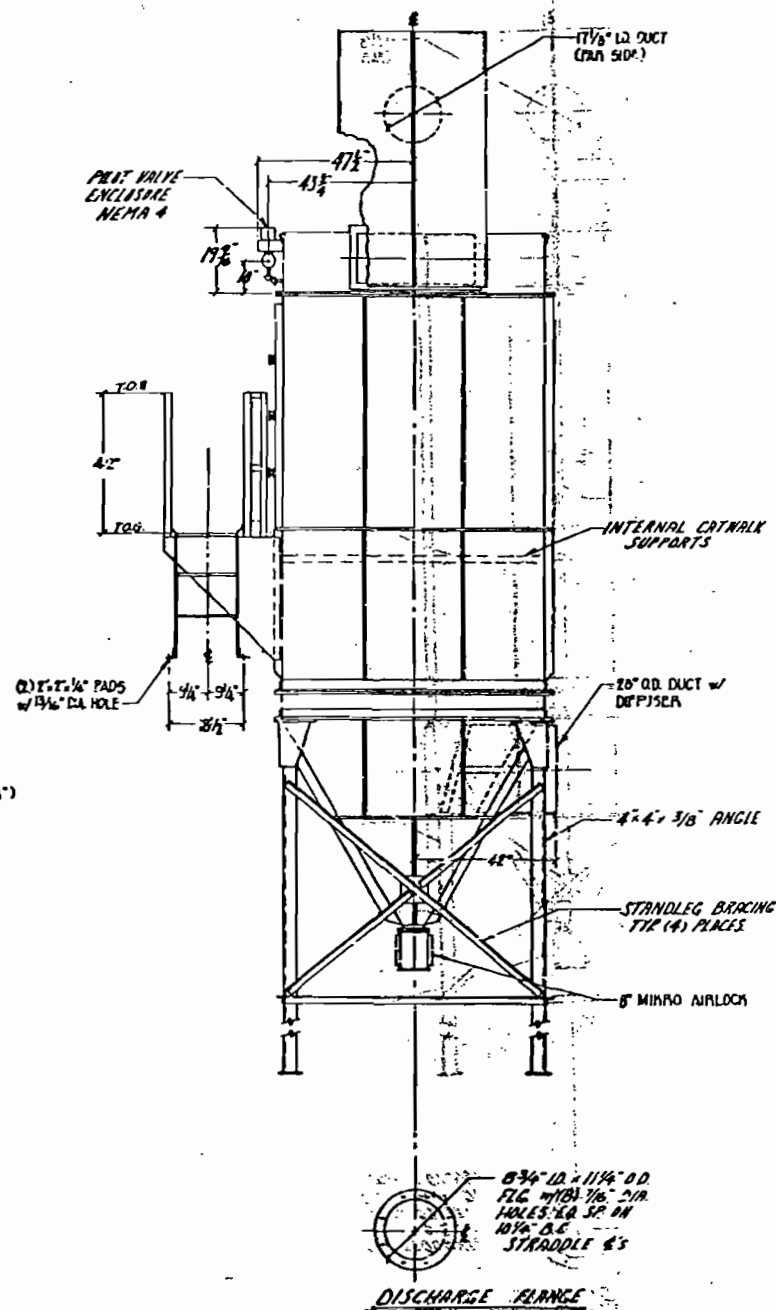
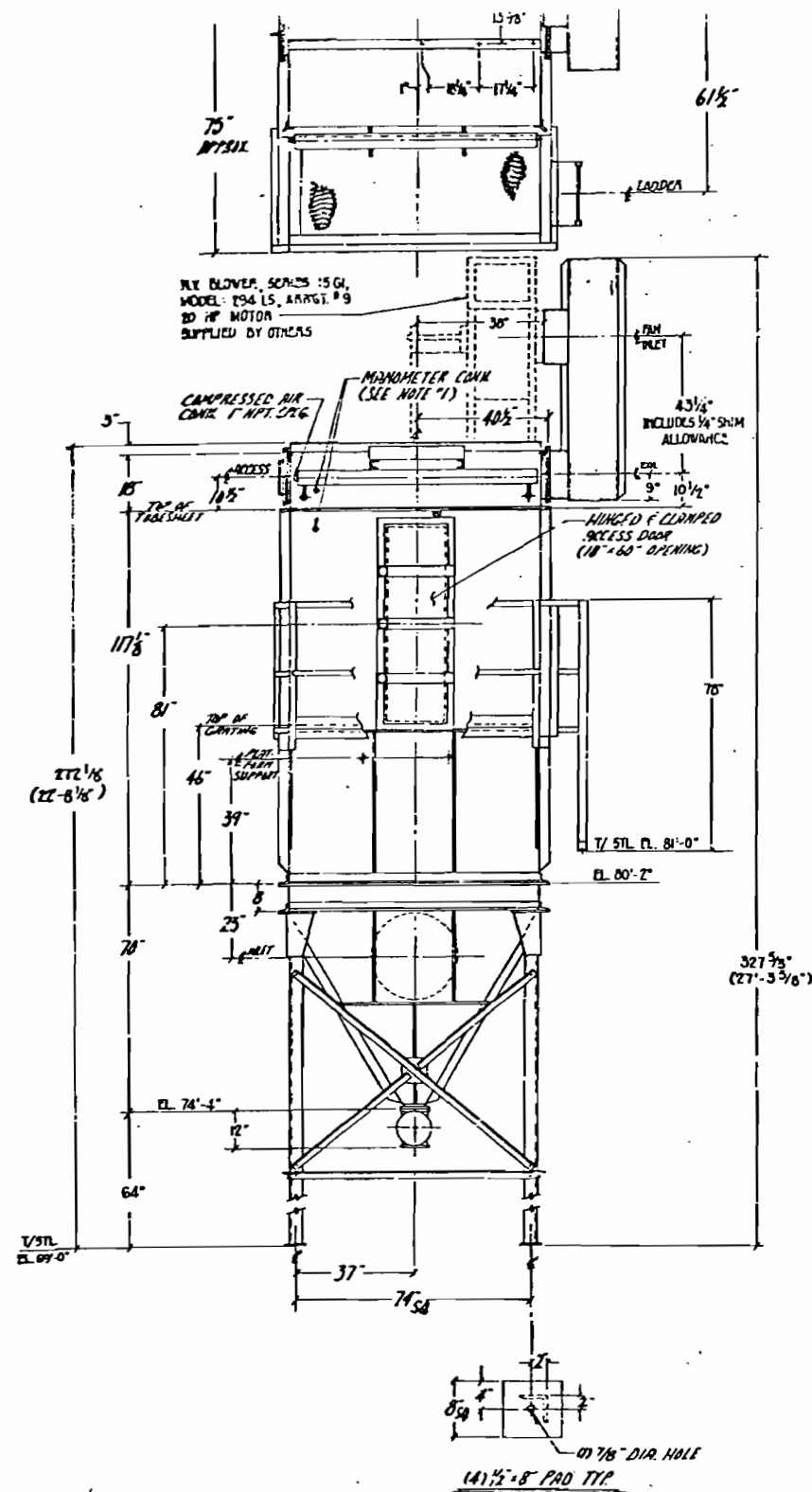
5100 CFM at 11.5 "SP at 70 °F

at 1567 RPM at 15.4 BHP

File No. V-9976

Date 1-21-81





- NOTES:
1. MANOMETER & TIMER SHIPPED UNMOUNTED, INSTALLATION BY OTHERS.
 2. POWER REQ'D FOR TIMER: 115V @ 50-60Hz.
 3. UNIT DESIGNED FOR DUST TIGHT OPERATION, NOT GAS TIGHT.
 4. ESTIMATED WT: 2585 Kg (5700 LBS)
 5. DUCTWORK & PIPING LOAD SHALL BE INDEPENDENTLY SUPPORTED.

TAG: ITEM NO. D 382

ARRANGEMENT OF MIKRO-PULSHIRE FABRIC FILTER				USED IN ASSEMBLY	
HRS.				DATE	
MODEL 121510 10 <td colspan="2">DATE</td>				DATE	
CHECKED				DATE	
DATE				DATE	
UNITED STATES				DRAWING NO.	
FILTRATION CORPORATION				N 741645	
SUMMIT, NEW JERSEY 07961				D 1	

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
BF-120**



Pennsuco Cement
Packhouse Baghouse Descriptions

Attachment TM-EU6-I3b.

Control Equipment Information for Packhouse

ID No:	BF-120	BF-200	BF-400
Model:	100TA8	144TA8	304C10
Make:	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "C" Series Jet Pulse
Design Air Volume:	4,000 acfm	6,200 acfm	15,000 acfm
Design Air Temperature:	275°F Max.	275°F Max.	250°F
Dust:	Cement	Cement	Cement
Inlet Grain Loading:	= 5.0 grains per ACF	= 5.0 grains per ACF	= 5.0 grains per ACF
Outlet Grain Loading:	0.01 grains per ACF	0.01 grains per ACF	0.01 grains per ACF
Total Filter Area:	1,047 ft ²	1,508 ft ²	3,958 ft ²
Air to Cloth Ratio:	3.82:1	4.11 to 1	3.8 to 1
Interstitial Velocity:	140 FPM	158 FPM	
Baghouse Foot Print:	6' 2½" x 6' 2½"	7' 6½" x 7' 4½"	11' - 11" x 9' - 6"
Overall Height:	23' 5" from hopper flange to top of Handrail	15' 10" from hopper flange to top of Handrail	34' - 1"
Compressed Air Used:	10 to 20 scfm @ 90 psig and 200 milliseconds	15 to 30 scfm @ 90 psig and 200 milliseconds	
Filter Access:	Top	Top	Side
Filter Quantity:	100 bags	144 bags	304 bags
Filter Size:	5" Diameter x 96" long	5" Diameter x 96" long	5" Diameter x 120" long
Design Pressure:	+/- 20" w.c.	+/- 20" w.c.	+/- 20" w.c.

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
BF-200**



Pennsuco Cement

Packhouse Baghouse Descriptions

Attachment TM-EU6-I3b.

Control Equipment Information for Packhouse

ID No:	BF-120	BF-200	BF-400
Model:	100TA8	144TA8	304C10
Make:	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "C" Series Jet Pulse
Design Air Volume:	4,000 acfm	6,200 acfm	15,000 acfm
Design Air Temperature:	275°F Max.	275°F Max.	250°F
Dust:	Cement	Cement	Cement
Inlet Grain Loading:	= 5.0 grains per ACF	= 5.0 grains per ACF	= 5.0 grains per ACF
Outlet Grain Loading:	0.01 grains per ACF	0.01 grains per ACF	0.01 grains per ACF
Total Filter Area:	1,047 ft ²	1,508 ft ²	3,958 ft ²
Air to Cloth Ratio:	3.82:1	4.11 to 1	3.8 to 1
Interstitial Velocity:	140 FPM	158 FPM	
Baghouse Foot Print:	6' 2½" x 6' 2½"	7' 6½" x 7' 4½"	11' - 11" x 9' - 6"
Overall Height:	23' 5" from hopper flange to top of Handrail	15' 10" from hopper flange to top of Handrail	34' - 1"
Compressed Air Used:	10 to 20 scfm @ 90 psig and 200 milliseconds	15 to 30 scfm @ 90 psig and 200 milliseconds	
Filter Access:	Top	Top	Side
Filter Quantity:	100 bags	144 bags	304 bags
Filter Size:	5" Diameter x 96" long	5" Diameter x 96" long	5" Diameter x 120" long
Design Pressure:	+/- 20" w.c.	+/- 20" w.c.	+/- 20" w.c.

**CEMENT STORAGE, PACKHOUSE, AND LOADOUT
BF-400**

**Pennsuco Cement****Packhouse Baghouse Descriptions**

Attachment TM-EU6-I3b.

Control Equipment Information for Packhouse

ID No:	BF-120	BF-200	BF-400
Model:	100TA8	144TA8	304C10
Make:	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "TA" Series Jet Pulse	FLS Airtech's Model "C" Series Jet Pulse
Design Air Volume:	4,000 acfm	6,200 acfm	15,000 acfm
Design Air Temperature:	275°F Max.	275°F Max.	250°F
Dust:	Cement	Cement	Cement
Inlet Grain Loading:	= 5.0 grains per ACF	= 5.0 grains per ACF	= 5.0 grains per ACF
Outlet Grain Loading:	0.01 grains per ACF	0.01 grains per ACF	0.01 grains per ACF
Total Filter Area:	1,047 ft ²	1,508 ft ²	3,958 ft ²
Air to Cloth Ratio:	3.82:1	4.11 to 1	3.8 to 1
Interstitial Velocity:	140 FPM	158 FPM	
Baghouse Foot Print:	6' 2½" x 6' 2½"	7' 6½" x 7' 4½"	11' - 11" x 9' - 6"
Overall Height:	23' 5" from hopper flange to top of Handrail	15' 10" from hopper flange to top of Handrail	34' - 1"
Compressed Air Used:	10 to 20 scfm @ 90 psig and 200 milliseconds	15 to 30 scfm @ 90 psig and 200 milliseconds	
Filter Access:	Top	Top	Side
Filter Quantity:	100 bags	144 bags	304 bags
Filter Size:	5" Diameter x 96" long	5" Diameter x 96" long	5" Diameter x 120" long
Design Pressure:	+/- 20" w.c.	+/- 20" w.c.	+/- 20" w.c.