APPENDIX 3
ARRANGEMENT DRAWINGS

CFB BOILERS

43-7587-5-51	GENERAL ARRANGEMENT UNIT 2 SIDE ELEVATION
43-7587-5-52	GENERAL ARRANGEMENT UNIT 2 ISO VIEW (FRONT)
43-7587-5-53	GENERAL ARRANGEMENT UNIT 2 ISO VIEW (RIGHT SIDE)
43-7587-5-54	GENERAL ARRANGEMENT UNIT 2 ISO VIEW (LEFT SIDE)
43-7587-5-55	GENERAL ARRANGEMENT UNIT 2 ISO VIEW (REAR)
43-7587-5-20	STEAM GENERATOR GENERAL ARRANGEMENT CROSS SECTION

AIR QUALITY CONTROL SYSTEM

3847-1-100	GEN ARRANGEMENT PLAN
3847-1-101	GEN ARRANGEMENT ELEVATION
3847-1-102	GEN ARRANGEMENT ELEVATION
3847-1-103	GEN ARRANGEMENT ELEVATION

BALANCE OF PLANT

2OX-M1000	PLANT ARRANGEMENT - UNIT 2 CLOSED COOLING WATER HEAT EXCHANGER AREA
2OX-M1003	PLANT ARRANGEMENT - UNIT 2 CONDENSATE POLISHER AREA

FUEL HANDLING SYSTEM

CFH-S2010	FUEL HANDLING-FLOW DIAGRAM
CFH-S2011	FUEL HANDLING-CONVEYOR PROFILE CONVEYOR BC-1-ELEVATION
CFH-S2012	FUEL HANDLING-CONVEYOR PROFILES CONVEYOR BC-2 & BC-3-ELEVATION
CFH-S2013	FUEL HANDLING-CONVEYOR PROFILE CONVEYORS BC-4 & BC-5 - ELEVATIONS
CFH-S2014	FUEL HANDLING-CONVEYOR PROFILE CONVEYORS BC-6, 7, 8 & 9-ELEVATIONS
CFH-S2015	FUEL HANDLING-CONVEYOR PROFILE CONVEYORS BC-10,BC-11,BC-12 & BC-13-ELS
CFH-S2016	FUEL HANDLING-CONVEYOR PROFILE CONVEYORS BC-14 & BC-15-ELEVATIONS
CFH-S2017	FUEL HANDLING-CONVEYOR PROFILE CONVEYORS L-1, L-2 & L-3-ELEVATION

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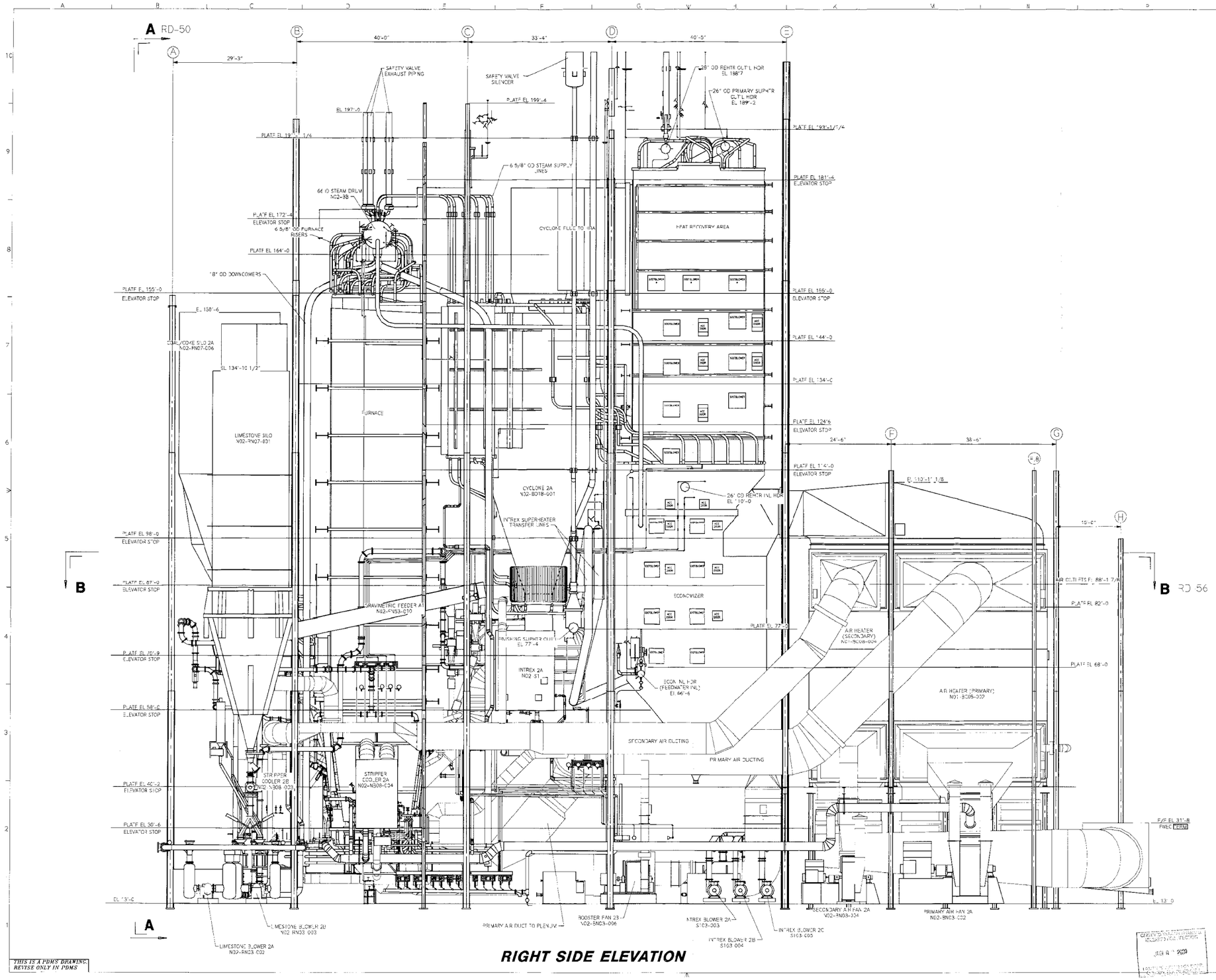

RIGHT SIDE ELEVATION

NOTES

1. DO NOT SCALE THIS DRAWING. USE FIGURE DIMENSIONS ONLY.
2. ABBREVATIONS USED ON THIS DRAWING ARE IN ACCORDANCE WITH AMERCAN STANDARD "ABBREVIATIONS FOR USE ON DRAWING".
3. FOR ADDITIONAL NOTES, & REFERENCE DRAWINGS SEE DWG 43-7587-5-50

B&V Dwg No: 62.3401.05-C0010

REV.	DATE	BY	DESCRIPTION
C	5-17-00	JHM	UPDATE DRAWING AND ADD EQUIPMENT DESIGNATIONS
B	3-26-99	JHM	DESIGN UPDATE
A	3-29-99	JHM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
SIDE ELEVATION

NORTH-SIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No.
B&V Drawing No. 62.3401.05-C0010

DRAWING NUMBER: 43-7587-5-51 REVISION: C

DRAWN BY	JHM	3-16-99	2007587C0 UNIT 2 DCF
CHECKED BY			2007610C0 UNIT 1 JBA
APPROVED BY			

THIS DRAWING IS THE PROPERTY OF THE
FOSTER WHEELER ENERGY CORPORATION
HIGHLAND, N.J.

P062713.62.3401.05-C0010 St:NE 08/04/00 MM-00739

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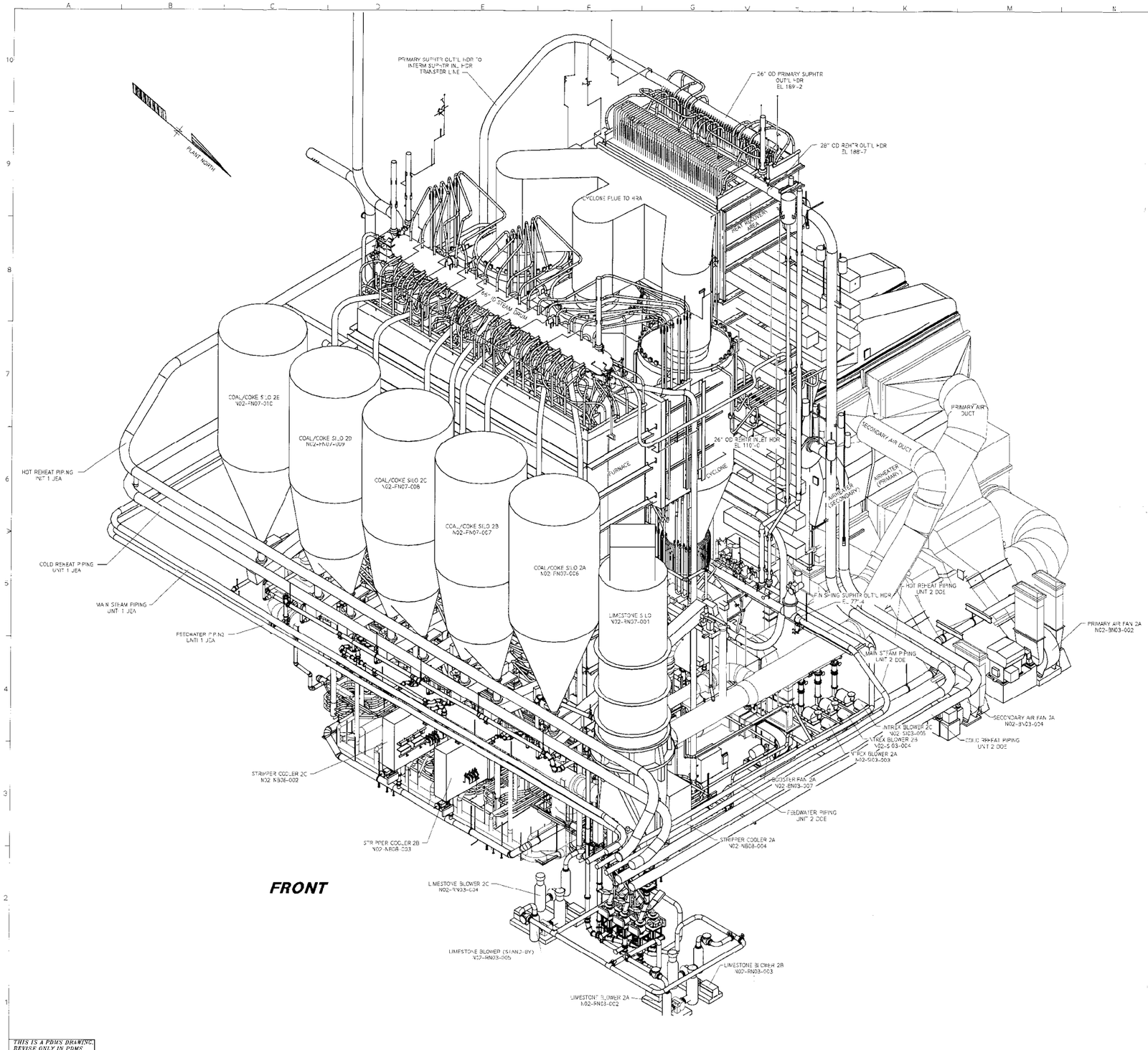

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NOTES

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2. ABBREVATIONS USED ON THIS DRAWING ARE IN ACCORDANCE WITH AMERICAN STANDARD "ABBREVIATIONS FOR USE ON DRAWING".
3. FOR ADDITIONAL NOTES, & REFERENCE DRAWINGS SEE DWG 43-7587-5-50
4. PENTHOUSE ENCLOSURES NOT SHOWN FOR CLARITY. SEE REF DWGS 43-7587-5-250 & 43-7587-5-253
5. BLOWER ENCLOSURES NOT SHOWN FOR CLARITY

B&V Dwg No: 62.3401.05-C0011

REV	DATE	BY	DESCRIPTION
C	5-18-00	JHM	UPDATED DRAWING AND ADDED EQUIPMENT DESIGNATIONS.
B	5-26-99	JHM	DESIGN UPDATE
A	3-29-99	JHM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
ISO VIEW (FRONT)

NORTH-SIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No
B&V Drawing No: 62.3401.05-C0011

43-7587-5-52 — REVISION C

DRAWN BY	JHM	3-16-99	206758700 UNIT 2 DOE
CHECKED BY			206761000 UNIT 1 JEA
APPROVED BY			

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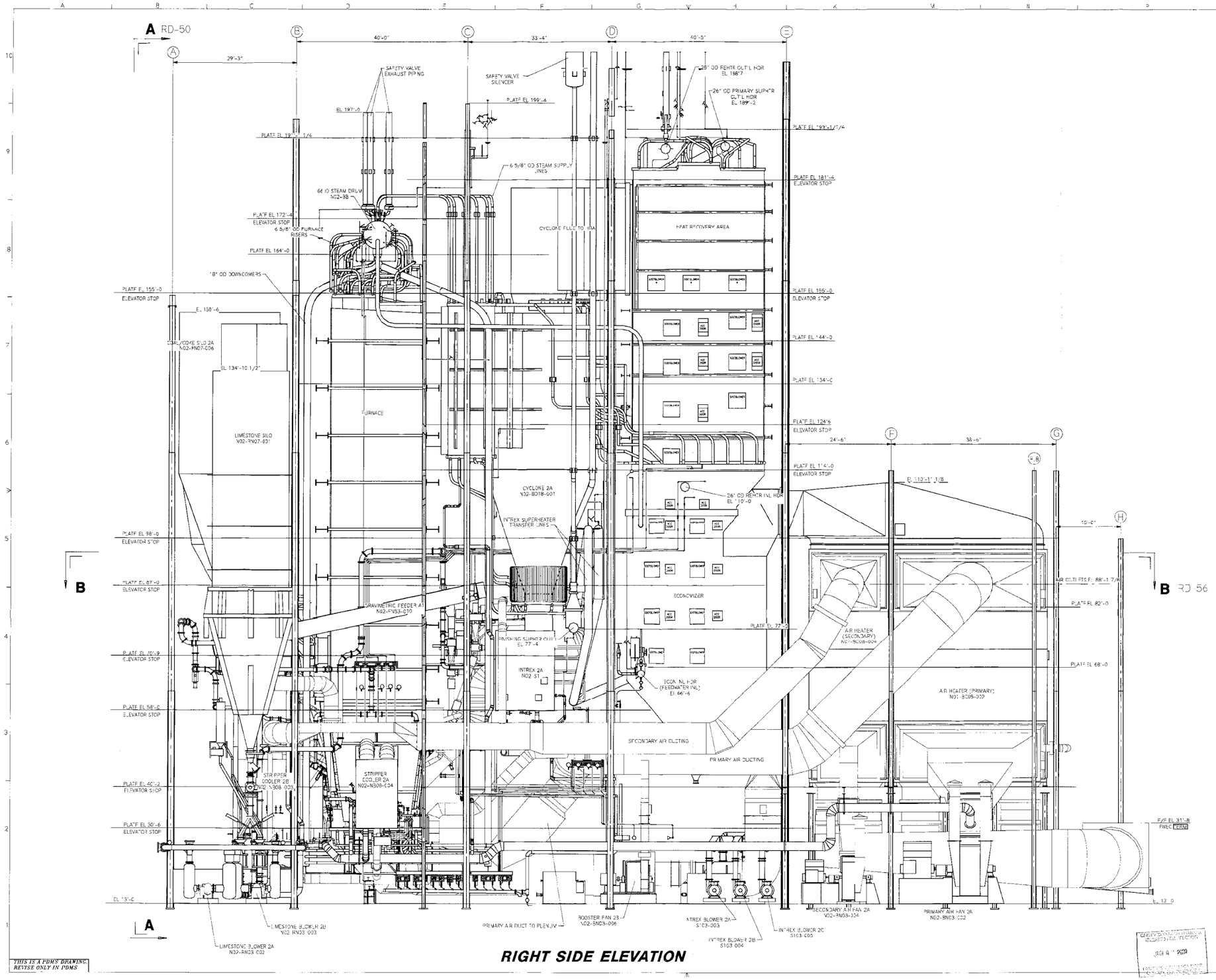

RIGHT SIDE ELEVATION

NOTES

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3. FOR ADDITIONAL NOTES, & REFERENCE DRAWINGS SEE DWG 43-7587-5-50

B&V Dwg No: 62.3401.05-C0010

REV.	DATE	BY	DESCRIPTION
C	5-17-00	JHM	UPDATE DRAWING AND ADD EQUIPMENT DESIGNATIONS
B	3-26-99	JHM	DESIGN UPDATE
A	3-29-99	JHM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
SIDE ELEVATION

NORTH-SIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No.
B&V Drawing No. 62.3401.05-C0010

DRAWING NUMBER: 43-7587-5-51 REVISION: C

DRAWN BY	JHM	3-16-99	2007587C0 UNIT 2 DCF
CHECKED BY			2007610C0 UNIT 1 JBA
APPROVED BY			

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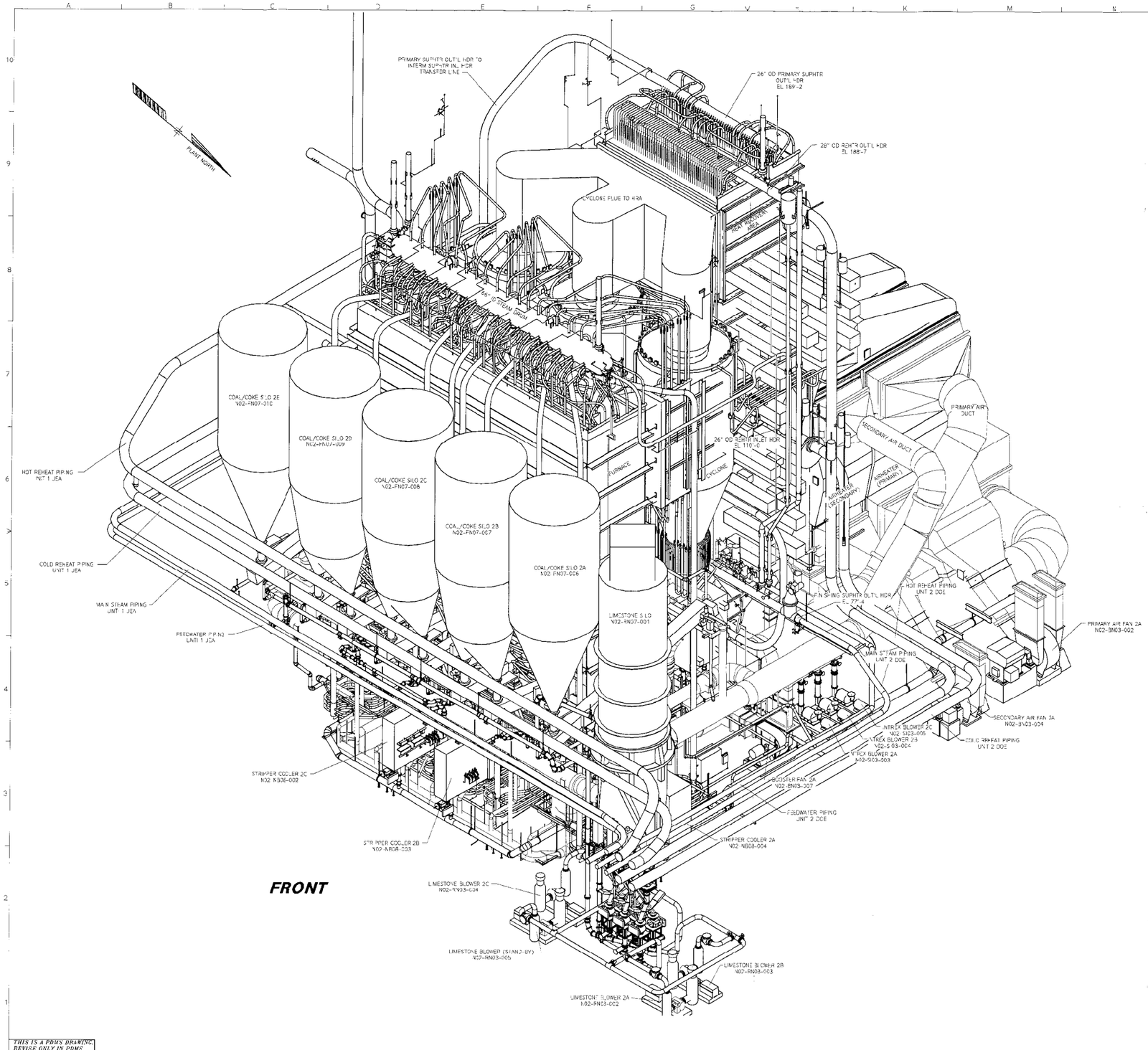

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2. ABBREVATIONS USED ON THIS DRAWING ARE IN ACCORDANCE WITH AMERICAN STANDARD "ABBREVIATIONS FOR USE ON DRAWING".
3. FOR ADDITIONAL NOTES, & REFERENCE DRAWINGS SEE DWG 43-7587-5-50
4. PENTHOUSE ENCLOSURES NOT SHOWN FOR CLARITY. SEE REF DWGS 43-7587-5-250 & 43-7587-5-253
5. BLOWER ENCLOSURES NOT SHOWN FOR CLARITY

B&V Dwg No: 62.3401.05-C0011

REV	DATE	BY	DESCRIPTION
C	5-18-00	JHM	UPDATED DRAWING AND ADDED EQUIPMENT DESIGNATIONS.
B	5-26-99	JHM	DESIGN UPDATE
A	3-29-99	JHM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
ISO VIEW (FRONT)

NORTH-SIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No
B&V Drawing No: 62.3401.05-C0011

43-7587-5-52 — REVISION C

DRAWN BY	JHM	3-16-99	206758700 UNIT 2 DOE
CHECKED BY			206761000 UNIT 1 JEA
APPROVED BY			

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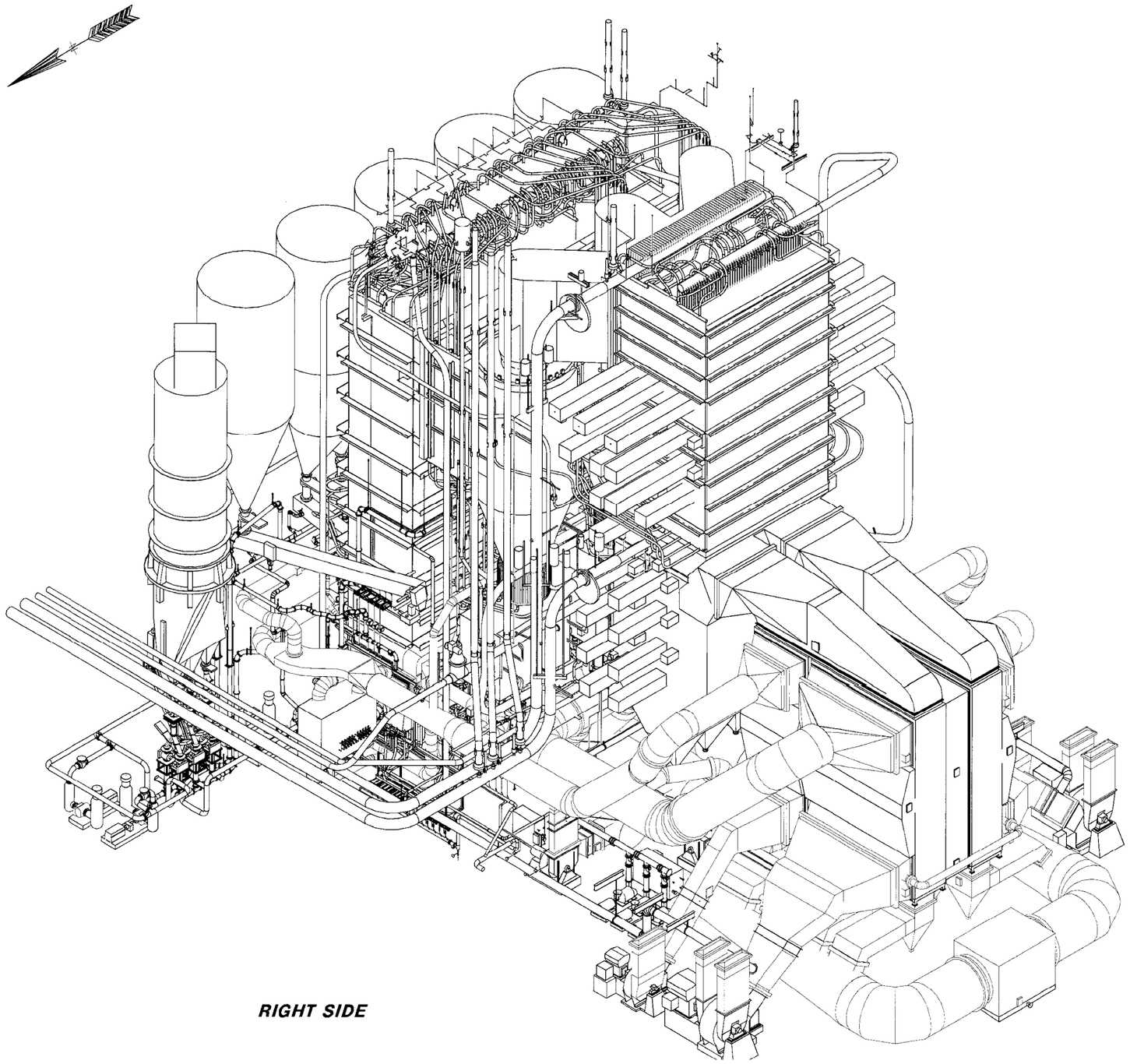

NOTES

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B&V Dwg No: 62.3401.05-C0012

REV.	DATE	BY	DESCRIPTION
C	5-23-00	JPM	UPDATED DRAWING
B	5-26-99	JPM	DESIGN UPDATE
A	3-29-99	JPM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
ISO VIEW (RIGHT SIDE)

NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No.:
B&V Drawing No.: 62.3401.05-C0012

DRAWING NUMBER: 43-7587-5-53
SCALE:
REVISION: C

DRAWN BY	R.M.	3-16-99	202758700 UNIT 2 DCS
CHECKED BY			202761000 UNIT 1 JEA
APPROVED BY			

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JUN 0 5 2000
FOSTER WHEELER NYA CORP.

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REVISE ONLY IN PDMS

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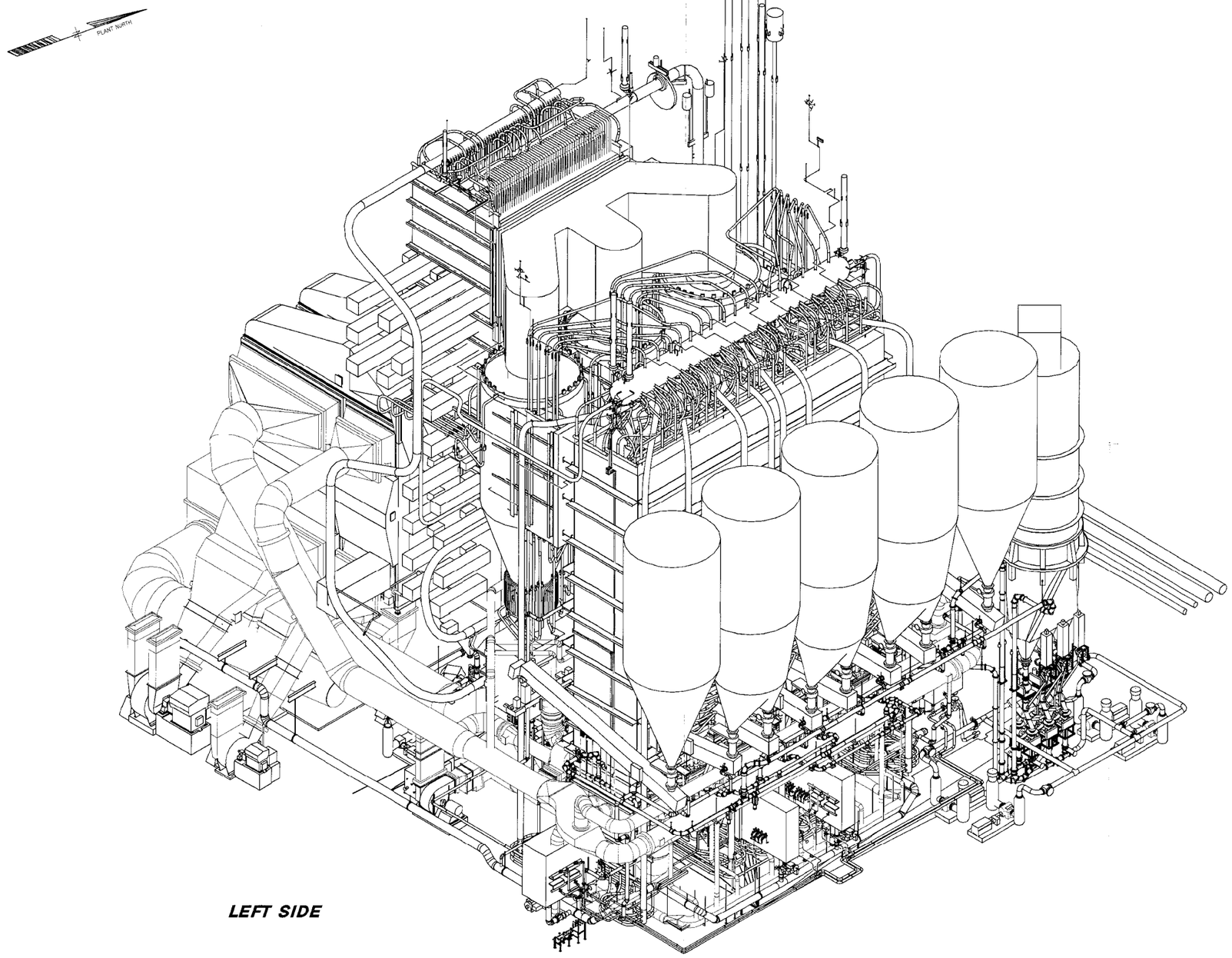

NOTES

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3. FOR ADDITIONAL NOTES & REFERENCE DRAWINGS SEE DWG 43-7587-5-50

B&V Dwg No: 62.3401.05-C0013

REV.	DATE	BY	DESCRIPTION
C	3-23-00	JHM	UPDATED DRAWING
B	3-26-99	JHM	DESIGN UPDATE
A	3-29-99	JHM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
ISO VIEW (LEFT SIDE)

NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No.
B&V Drawing No.: 62.3401.05-C0013

43-7587-5-54 — REVISION C

DRAWN BY	JHM	3-16-99	200756700 UNIT 2 DCS
CHECKED BY			200761000 UNIT 1 ESA
APPROVED BY			

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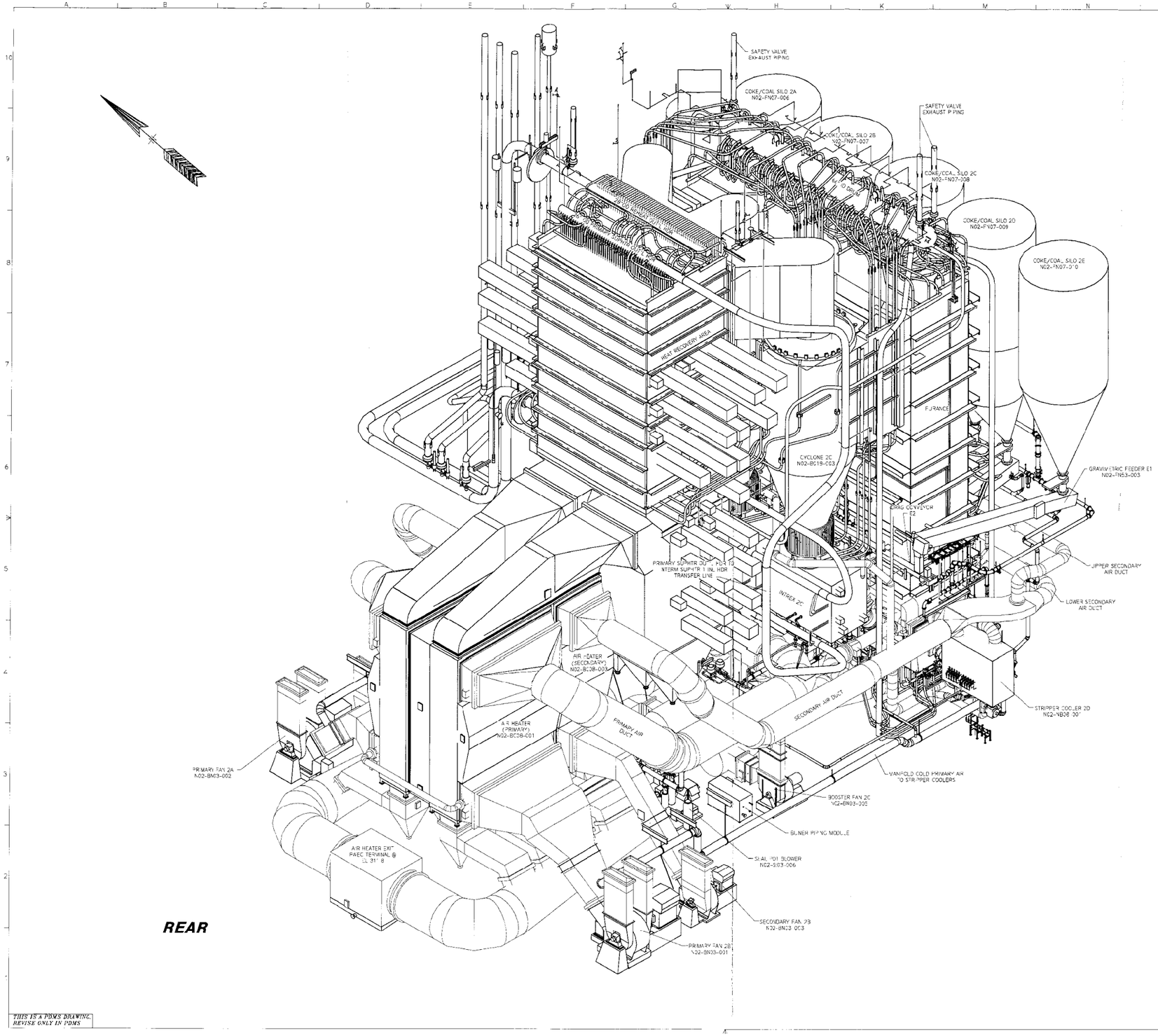

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2. ABBREVIATIONS USED ON THIS DRAWING ARE IN ACCORDANCE WITH AMERICAN STANDARD "ABBREVIATIONS FOR USE ON DRAWING".
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B&V Dwg No: 62.3401.05-C0014

REV.	DATE	BY	DESCRIPTION
C	5-24-00	JHM	UPDATED DRAWING AND ADDED EQUIPMENT DESIGNATION
B	5-26-99	JHM	DESIGN UPDATE
A	3-29-99	JHM	FIRST ISSUE

REVISIONS

GENERAL ARRANGEMENT
UNIT 2
ISOMETRIC VIEW (REAR)

NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT
Equipment No.
B&V Drawing No. 62.3401.05-C0014

DRAWING NUMBER	SCALE:	REVISION
43-7587-5-55		C

DRAWN BY	JHM	3-16-99	230758700 UNIT 2 SOE
CHECKED BY			230761000 UNIT 1 SEA
APPROVED BY			

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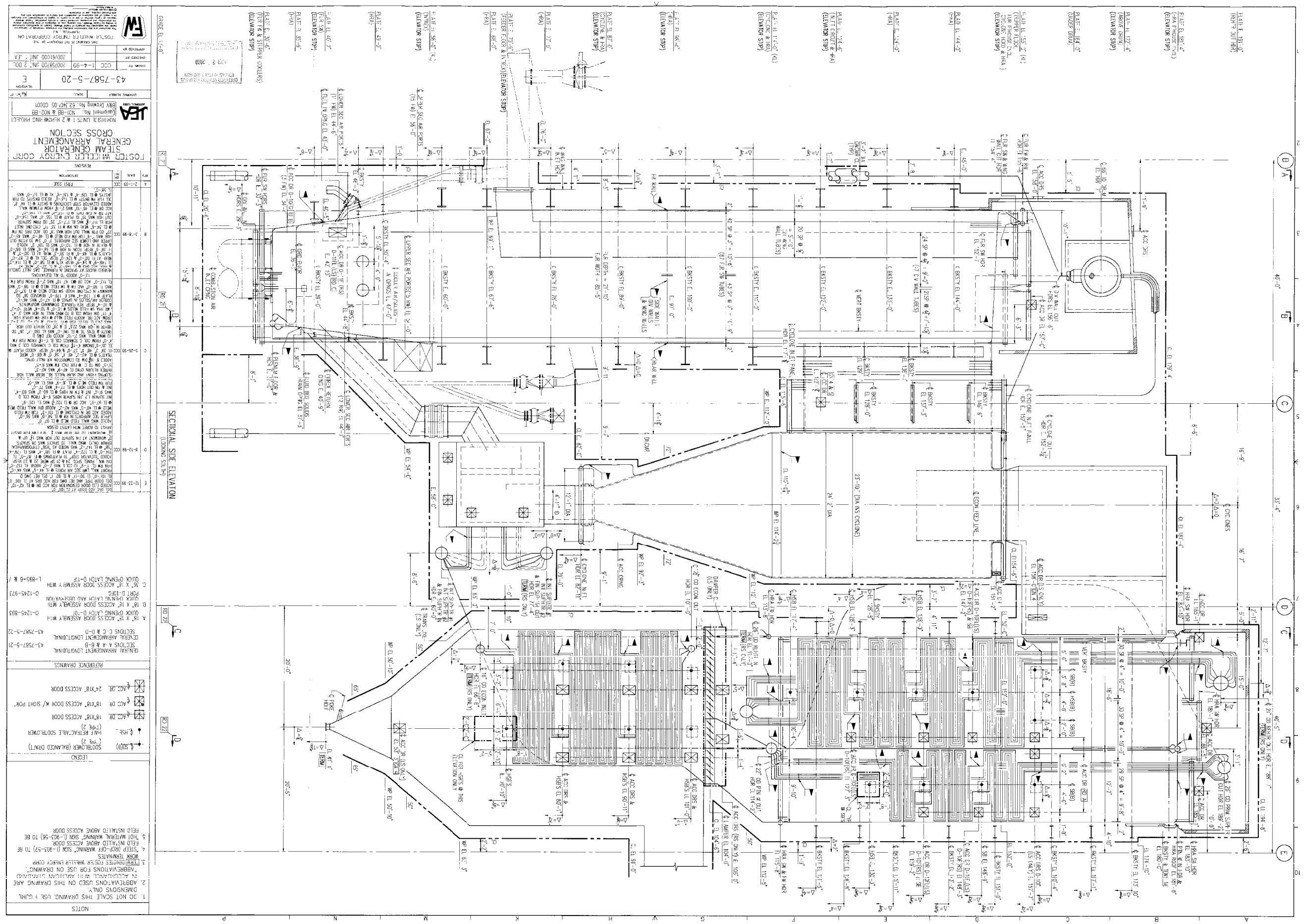
PERRYVILLE, N.J.

LEGALIZED DRAWING
JUN 0 7 2000



P062713.62.3401.05-C0001 St:NE 06/06/00 MM-00560

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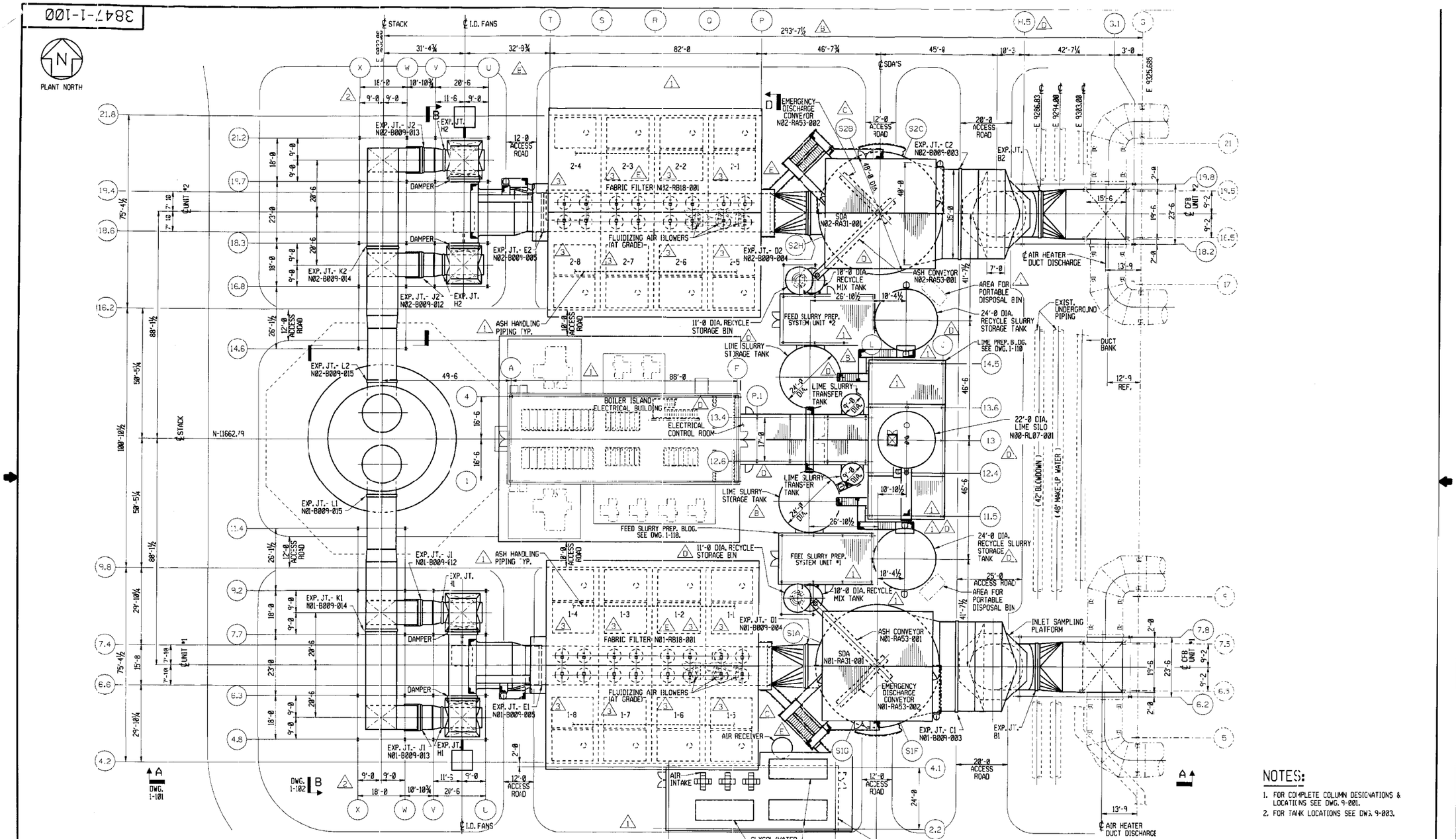
3847-1-100



NOTES:

1. FOR COMPLETE COLUMN DESIGNATIONS & LOCATIONS SEE DWG. 9-001.
2. FOR TANK LOCATIONS SEE DWG. 9-003.

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B&V DWG. #62.0200.05-C0005
GEM CODE: #N01-RA31-001, N02-FA31-001
N01-RB18-001 THRU 008, N02-RB18-001 THRU 008

NO.	REVISION	DWN.	CHK.	DATE
E	REVISED DIMENSIONS & LAYOUT ABS PREP AREA	RK	BN	10-28-99
D	MOVED STAIR TOWER	RK	BN	12-15-99
C	REV. TANK & COL. DESIGNATIONS	RWK		1-9-00
B	MOVED STAIR TOWER, REVISED EQUIP. NO'S.	RK	BN	2-4-00
A	DRAWING UPDATED AND CHECKED.	JB	DLM	3-1-00

NO.	REVISION	DWN.	CHK.	DATE
1	ADD ELECT BLDG & ASH HANDLING REF	RK		
	REV OUTLET DUCT & GEN REV	RWK		4-27-00
2	ADD OUT DUCT SUPT INFO. INC CUST COMMENT, ADD EXP JT TAGS	CC	BA	7-12-00
3	REV F.F. COMPARTMENT NUMBERING	CC		8-11-00

ISSUE RECORD

REV.	DATE	TO	FOR
2	7-14-00	WARC & WATKINS	CONSTRUCTION
2	8-4-00	INSULATOR	NOS
3	9-22-00	FOSTER WHEELER	INFORMATION

REV.	DATE	TO	FOR
E	2-7-00	FOSTER WHEELER	INFORMATION
0	3-1-00	FABRICATOR	FAB INFO
0	4-3-00	FABRICATOR	BID INFO
1	4-28-00	FOSTER WHEELER	INFO
2	7-14-00	FOSTER WHEELER	INFO

REV.	DATE	TO	FOR
A	10-1-99	FOSTER WHEELER	INFORMATION
B	12-29-99	FOSTER WHEELER	INFORMATION
C	12-15-99	NELS	MODEL BID
D	1-11-00	NELS	MODEL FAB
D	1-14-00	FABRICATOR	BID INFO.

DRN. BY	RK	DATE 9-9-99
CHKD. BY	DLM	DATE 2-29-02
APPVD. BY	GG	DATE 3-1-00
SCALE	1/16"=1'-0	
CERTIFIED BY:		DATE:

FOSTER WHEELER
JACKSONVILLE ELECTRIC AUTHORITY
UNIT #1 & #2 REPOWERING PROJECT

GENERAL ARRANGEMENT PLAN

Wheelabrator Air Pollution Control
A Waste Management Company

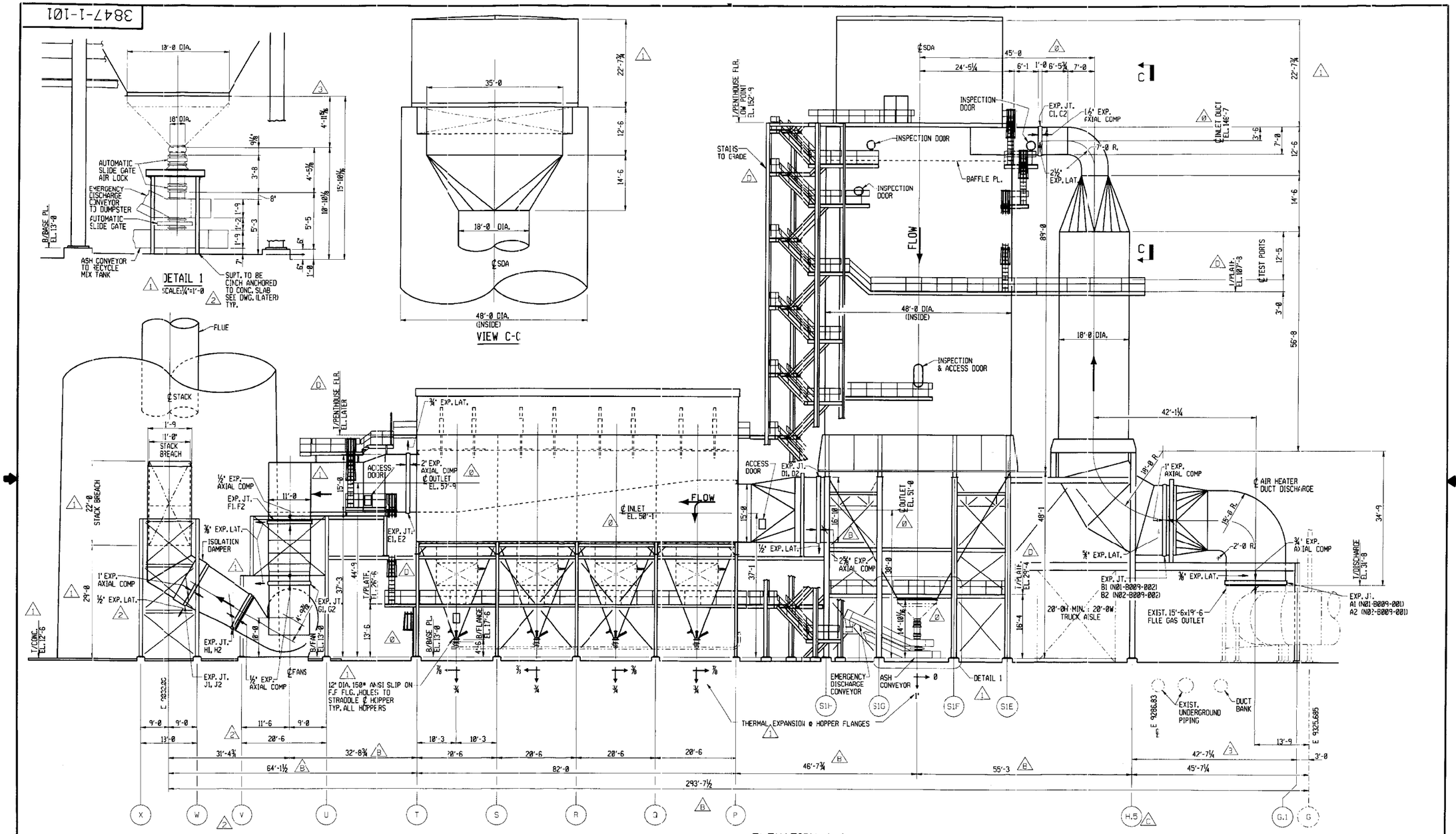
DRAWING NUMBER 3847-1-100 REV. NO. 3

m:\contract\3847\cad\38471100.dgn

PLOT DATE: 16 SEP 2002 13:20:04
LAST PLOTTED BY: RK

CRA33213 11-SEP-2002 14:43:06

3847-1-101



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B&V DWG. #62.0200.05-C0006
GEM CODE #N01-RA31-001, N02-RA31-001
N01-RB18-001 THRU 008, N02-RB18-001 THRU 008

NO.	REVISION	DRN.	CHK.	DATE
B	REVISED DIMENSIONS & TRUCK AISLE	BN		10-28-99
C	REVISED COLUMN DESIGNATION	BN		1-9-00
D	REVISED ACCESS ADDED ELEVATIONS	BN		2-4-00
E	DWG UPDATED AND CHECKED	BN		3-1-00
F	REV DUCT DIM & ADD DETAIL 1			

NO.	REVISION	DRN.	CHK.	DATE
1	REVISED OUTLET DUCT & GENERAL REV.			4-27-00
2	ADD OUTLET DUCT SUPT INFO & INCORPORATE CUSTOMER COMMENT			
	ADD EXP MOVEMENTS AND EXP JT TAGS	CC	BN	7-12-00
3	REV. DIMENSIONS AT DETAIL 1	CC		7-19-00

ISSUE RECORD

REV.	DATE	TO	FOR
3	8-4-00	INSULATOR	BIDS
3	9-20-00	FOSTER WHEELER	INFORMATION

REV.	DATE	TO	FOR
D	2-7-00	FOSTER WHEELER	INFORMATION
0	3-1-00	FABRICATOR	FAB INFO
1	4-28-00	FOSTER WHEELER	INFO
2	7-14-00	FOSTER WHEELER	INFO
2	7-14-00	WGC & WATKINS	CONSTRUCTION

REV.	DATE	TO	FOR
A	10-1-99	FOSTER WHEELER	INFORMATION
B	10-29-99	FOSTER WHEELER	INFORMATION
B	12-15-99	NELS	MODEL BID
B	1-11-00	NELS	MODEL FAB
C	1-14-00	FABRICATOR	BID INFO.

DRN. BY	RK	DATE	9-9-99
CHKD. BY	DLY	DATE	2-29-20
APPVD. BY	GG	DATE	3-1-00
SCALE	3/32" = 1'-0		
CERTIFIED BY:		DATE:	

FOSTER WHEELER
JACKSONVILLE ELECTRIC AUTHORITY
UNIT #1 & #2 REPOWERING PROJECT

GENERAL ARRANGEMENT ELEVATION

Wheelabrator Air Pollution Control
A Waste Management Company

DRAWING NUMBER 3847-1-101 REV. NO. 3

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PLOT DATE: 15 SEP 2000 13:28:26
LAST PLOTTED BY: RK

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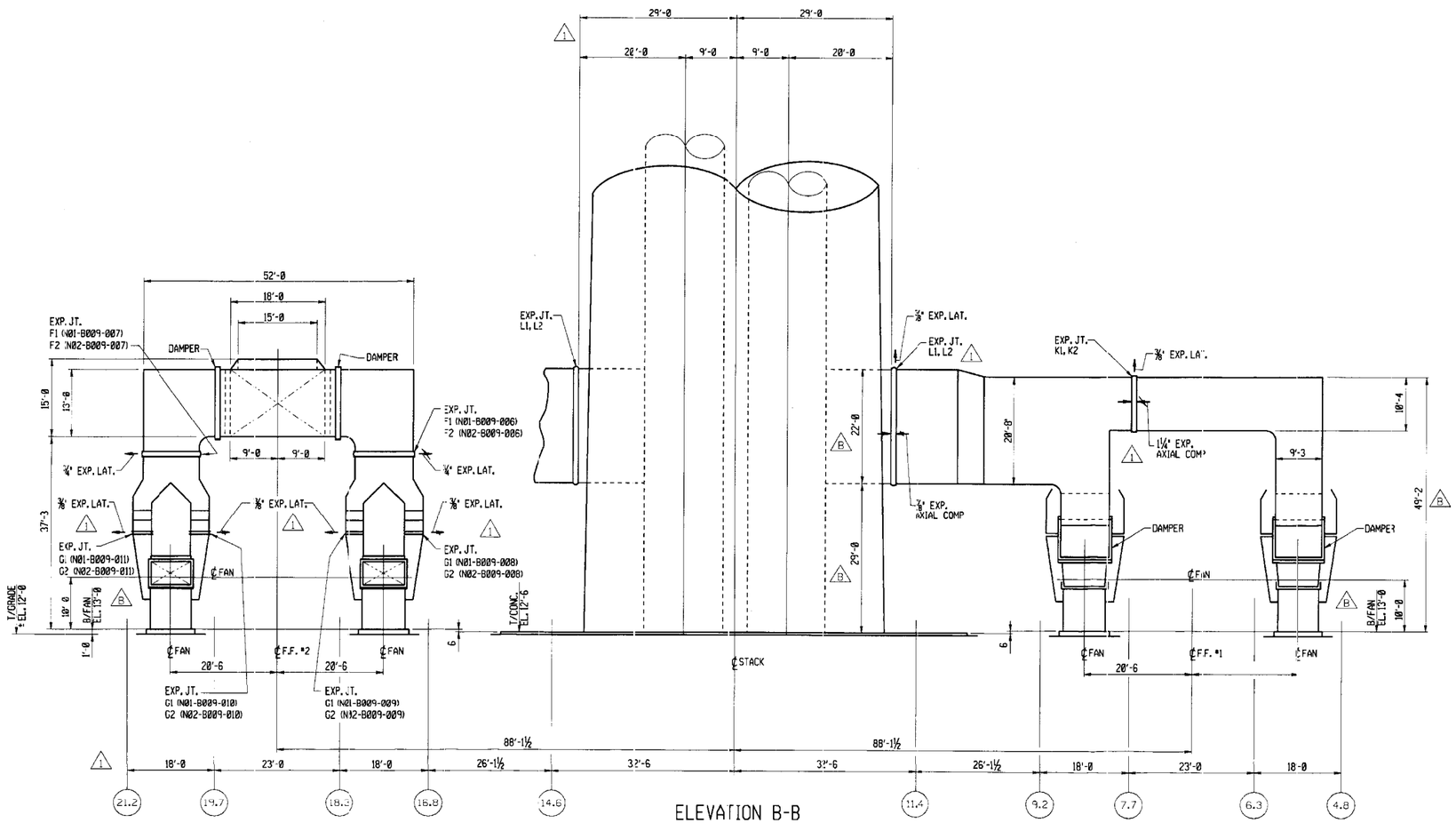
3847-1-102



ELEVATION B-B

(3847-1-100)

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GEM CODE *N31-RA31-001, N02-RA31-001
N31-RB18-001 THRU 008, N02-RB18-001 THRU 008

B&V DWG NO: 62.0200.05-C0007

NO.	REVISION	DRN.	CHK.	DATE
0	DWG. CHECKED & GENERAL UPDATE	RWK	BRN	4-27-00
1	ADD OLT DUCT SUPT INFO,EXP MOVEMENTS & EXP JT TAGS	CC	BN	7-12-00

NO.	REVISION	DRN.	CHK.	DATE

ISSUE RECORD

REV.	DATE	TO	FOR

REV.	DATE	TO	FOR
1	3-14-00	FOSTER WHEELER	INFO
1	3-14-00	WPC & WATKINS	CONSTRUCTION
1	3-4-00	INSULATOR	BIDS
1	5-20-00	FOSTER WHEELER	INFORMATION

REV.	DATE	TO	FOR
0	12-15-99	NELS	MODEL BID
0	1-11-00	NELS	MODEL FAB
0	1-14-00	FABRICATOR	BID INFO.
0	2-7-00	FOSTER WHEELER	INFORMATION
0	4-28-00	FOSTER WHEELER	INFO.

DRN. BY	RK	DATE	9-20-99
CHKD. BY	BRN	DATE	4-27-00
APPVD. BY		DATE	
SCALE	3/32" = 1'-0		
CERTIFIED BY:		DATE:	

FOSTER WHEELER
JACKSONVILLE ELECTRIC AUTHORITY
UNIT #1 & #2 REPOWERING PROJECT

GENERAL ARRANGEMENT
ELEVATION

Wheelabrator Air Pollution Control
A Waste Management Company

DRAWING NUMBER 3847-1-102 REV. NO. 1

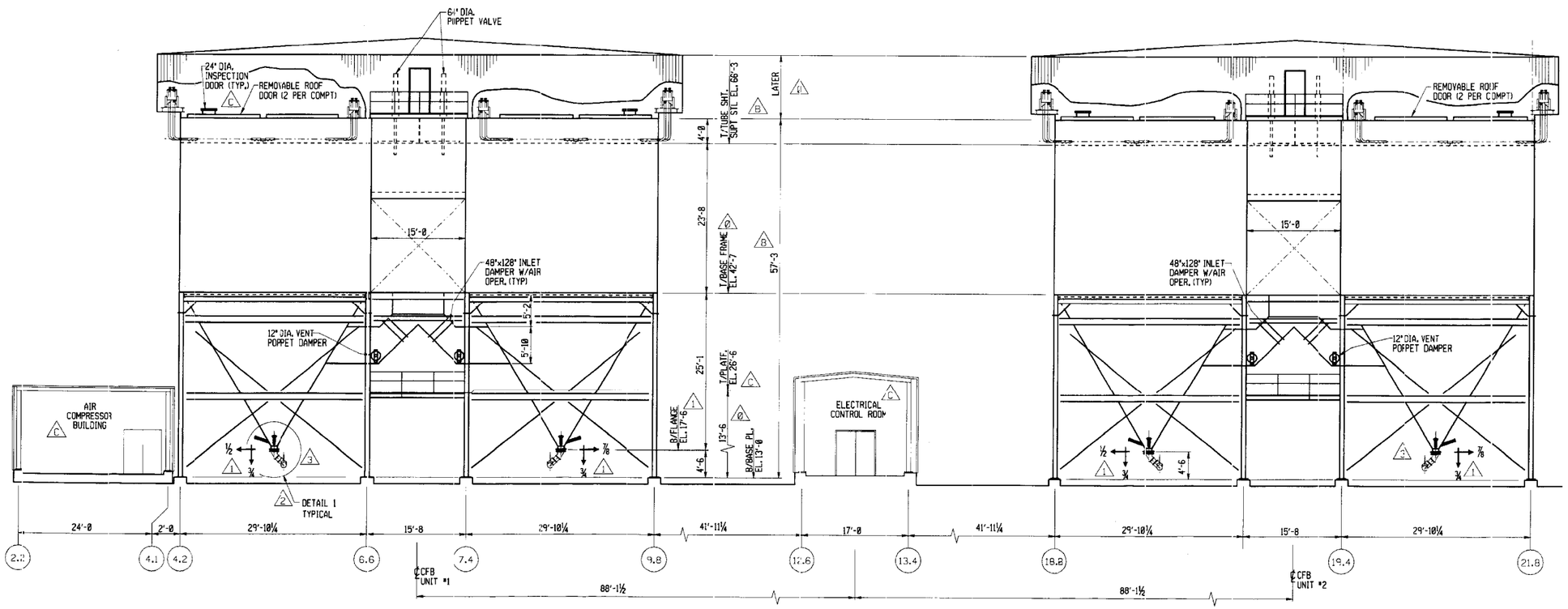
m:\contract\3847\cad\38471102.dgn

PLOT DATE: 15 SEP 2000 13:28:38
LAST PLOTTED BY: RK

P062713.62.0200.05-C0007 St:NE 11/21/00 MM-01186

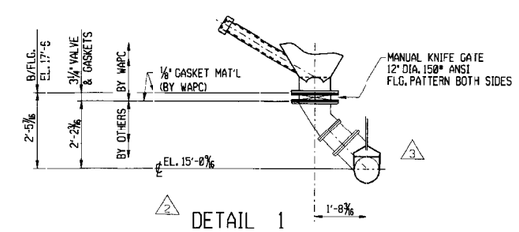
CRA33213 11-SEP-2002 14:41:03

3847-1-103



SECTION D-D

(3847-1-100)



DETAIL 1

SCALE ½" = 1'-0

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NOTE
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GEM CODE #N01-RB13-001 THRU 008, N02-RB 8-001 THRU 008

B&V DWG NO: 62.0200.05-C0008

NO.	REVISION	DWN.	CHK.	DATE
3	REVISED DIMENSIONS	JS		1-13-00
2	ADDED COMPRESSOR BLDG. ELEC. ROOM & ELEVATIONS	JN	BN	2-4-00
1	REV. DIMS & DWG CHECKED	RWK	DM	3-1-00
	REVISE HOPPER VALVES & ADDED EXPANSIONS	KWK	BRN	4-27-00
	ADDED DETAIL 1	RD	BRN	5-3-00

NO.	REVISION	DWN.	CHK.	DATE
3	REVISED ORIENTATION OF PNEUMATIC CONVEYORS	CC	BN	7-13-00

ISSUE RECORD

REV.	DATE	TO	FOR
3	9-10-00	FOSTER WHEELER	INFORMATION

REV.	DATE	TO	FOR
1	4-28-00	FOSTER WHEELER	INFO
2	5-3-00	FOSTER WHEELER	INFO
3	7-14-00	FOSTER WHEELER	INFO
3	7-14-00	WAPC & WATKINS	CONSTRUCTION
3	8-4-00	INSULATOR	BIDS

REV.	DATE	TO	FOR
A	12-15-99	NELS	MODEL BID
A	1-11-00	NELS	MODEL FAB
B	1-14-00	FABRICATOR	BID INFO.
C	2-7-00	FOSTER WHEELER	INFORMATION
D	3-1-00	FABRICATOR	FAB INFO

DRN. BY	RK	DATE	9-9-99
CHK'D. BY	DLM	DATE	2-29-00
APPV'D. BY	GG	DATE	3-1-00
SCALE	⅛" = 1'-0		
CERTIFIED BY:		DATE:	

FOSTER WHEELER
JACKSONVILLE ELECTRIC AUTHORITY
UNIT #1 & #2 REPOWERING PROJECT

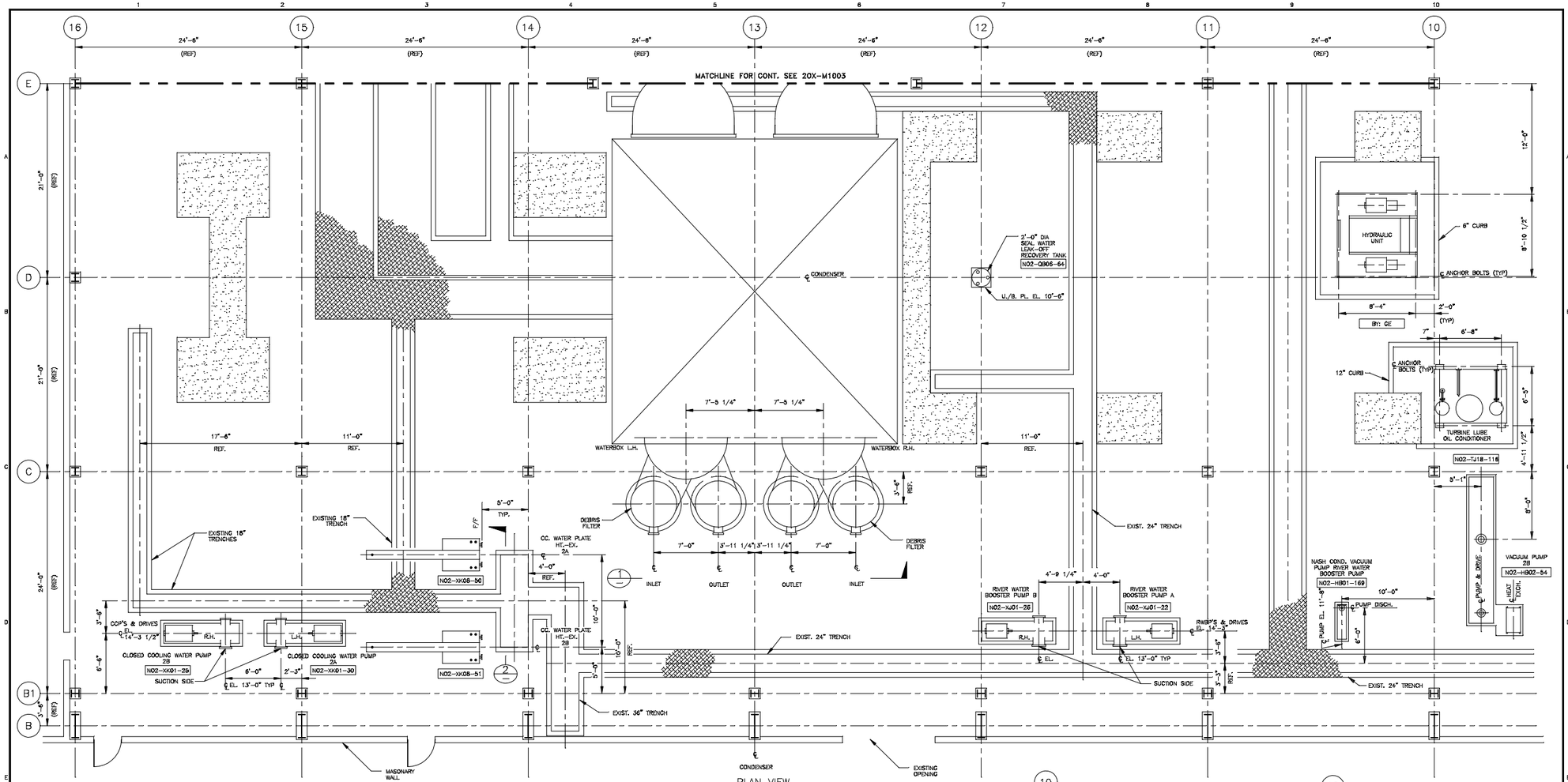
GENERAL ARRANGEMENT ELEVATION

Wheelabrator Air Pollution Control
A Waste Management Company

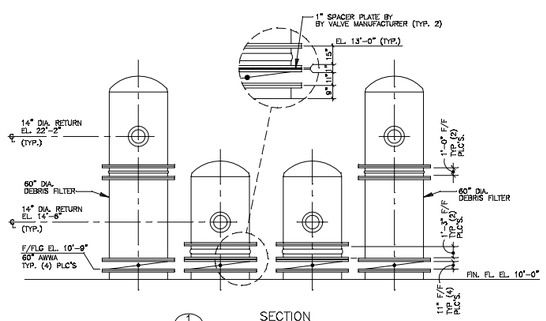
DRAWING NUMBER 3847-1-103 REV. NO. 3

m:\contract\3847\cad\38471103.dgn

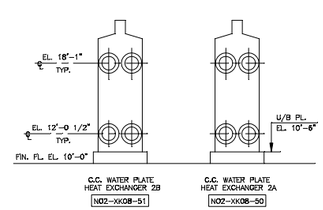
PLOT DATE: 15 SEP 2000 13:28:49
LAST PLOTTED BY: RK



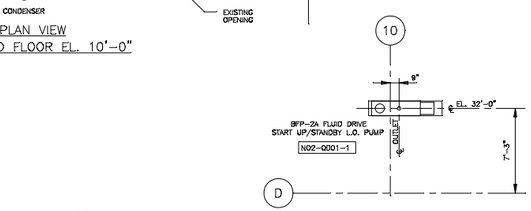
PLAN VIEW
@ GROUND FLOOR EL. 10'-0"



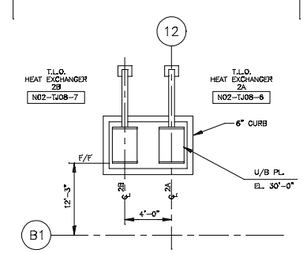
1 SECTION
ELEV. LOOKING NORTH



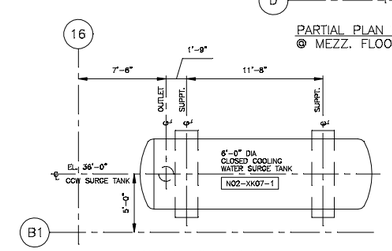
2 SECTION
ELEV. LOOKING WEST



PARTIAL PLAN VIEW
@ MEZZ. FLOOR EL. 30'-0"



PARTIAL PLAN VIEW
@ MEZZ. FLOOR EL. 30'-0"



PARTIAL PLAN VIEW
@ MEZZ. FLOOR EL. 30'-0"

NOTES

JEA EQUIPMENT NUMBER	JEA DRAWING NUMBER
N02-MA	

PROJECT	DRAWING NUMBER	REV
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT	62713-20X-M1000	6

PLANT ARRANGEMENT – UNIT 2
CLOSED COOLING WATER HEAT EXCHANGER AREA

CODE:
AREA UNIT-2

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
6	08/15/02	CONFORMED TO CONSTRUCTION RECORDS	JH	TC	TC	AC	AC
5	3/16/01	GENERAL REVISION	FM	FM	JC	WM	AC
4	1/31/01	GENERAL REVISION	JH	JH	JC	WM	AC
3	10/18/00	GENERAL REVISION	FM	JH	JC	WM	AC
2	10/4/00	GENERAL REVISION	FM	JH	JC	WM	AC
1	09/6/00	GENERAL REVISION	JH	JH	JC	WM	AC
0	08/15/00	ISSUED FOR CONSTRUCTION	JH	JH	JC	WM	AC

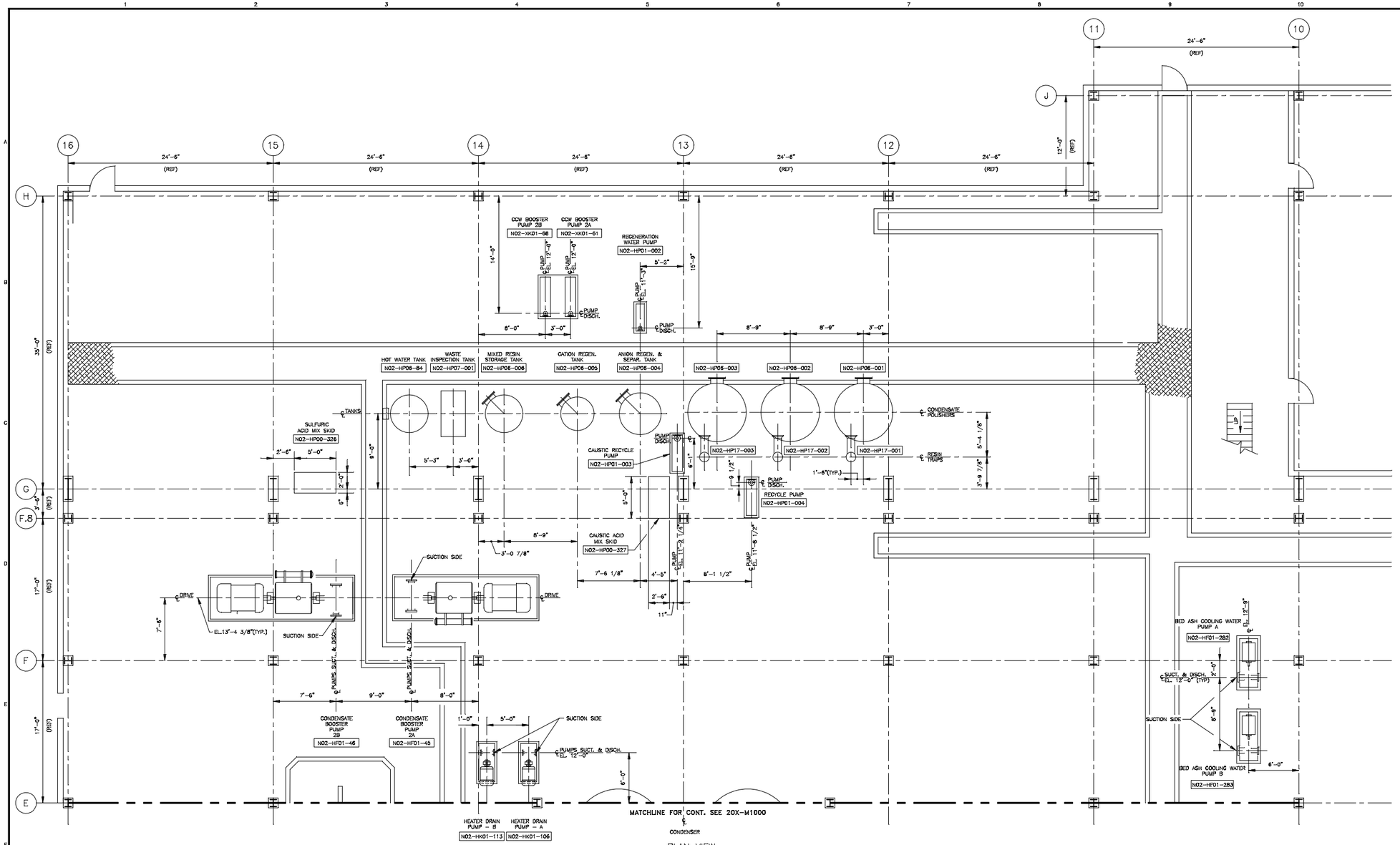
PLANT NORTH — TRUE NORTH 14.347°

1/4"=1'-0"

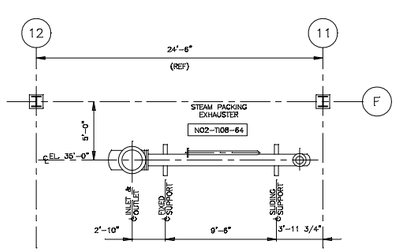
I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.
SIGNED ANTHONY COMPMAN
DATE: 08/15/00 REG NO. 45662

BLACK & VEATCH — JEA Building Community
ENGINEER WHM DRAWN JHH
CHECKED JAC DATE 08/30/00

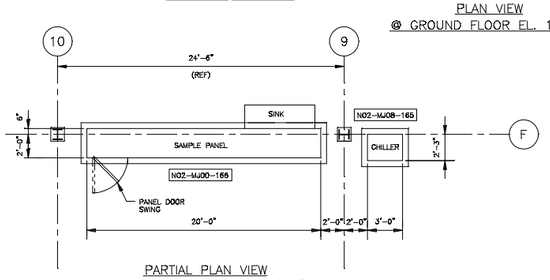
ACAD 15.05
E1 1=48
(1pes3)
HAN3:454
ATASD/07
08/29/00



PLAN VIEW
@ GROUND FLOOR EL. 10'-0"



PARTIAL PLAN VIEW
@ MEZZ. FLOOR EL. 30'-0"



PARTIAL PLAN VIEW
@ GROUND FLOOR EL. 10'-0"

PLANT NORTH — TRUE NORTH 14.3472°

1/4"=1'-0"

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
3	08/19/02	CONFORMED TO CONSTRUCTION RECORDS	JH	TC	TC	AC	AC
2	1/31/01	GENERAL REVISION	JH	JH	JC	WM	AC
1	1/2/01	GENERAL REVISION	FM	FM	JC	WM	AC
0	11/14/00	RELEASED FOR CONSTRUCTION	FM	FM	JC	WM	AC

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

SIGNED ANTHONY COMPMAN

DATE: 11/14/00 REG NO. 45662

BLACK & VEATCH — JEA Building Community

ENGINEER WDM DRAWN FDM

CHECKED JAC DATE 10/4/00

NOTES

JEA EQUIPMENT NUMBER: N02-MA

JEA DRAWING NUMBER

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

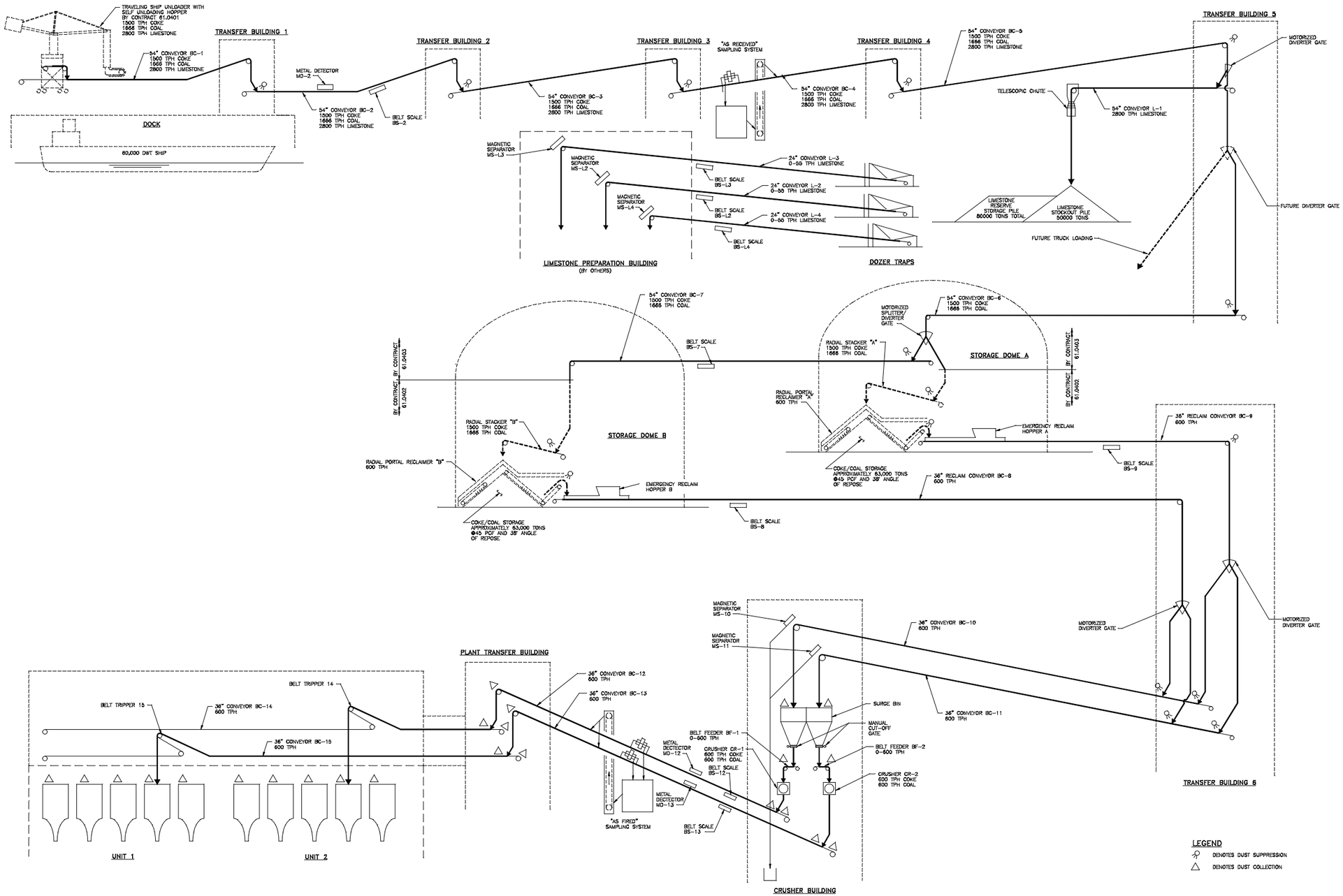
PROJECT DRAWING NUMBER: 62713-20X-M1003 REV: 3

PLANT ARRANGEMENT – UNIT 2
CONDENSATE POLISHER AREA

CODE:

AREA: UNIT-2

HM31464 E1 AVADO/07 08/29/00 13:46:12 ACAD 15.05



				3	11-12-1999	GENERAL REVISIONS	WAH	JWO	DEM	RLW	WS
				2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWO	DEM	RLW	WS
				1	07-01-1999	GENERAL REVISIONS	WAH	JWO		RLW	WS
				0	05-28-1999	INITIAL ISSUE	JWS	JWO		RLW	WS
			4 08-15-2002 CONFORMED TO CONSTRUCTION RECORDS	NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

SIGNED RICHARD L. WARD
DATE 9/28/99 REG NO. 33384

BLACK & VEATCH — JEA Building Community

ENGINEER JWO DRAWN JWS
CHECKED DEM DATE 09-28-99

JEA EQUIPMENT NUMBER: N00-FH

JEA DRAWING NUMBER

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

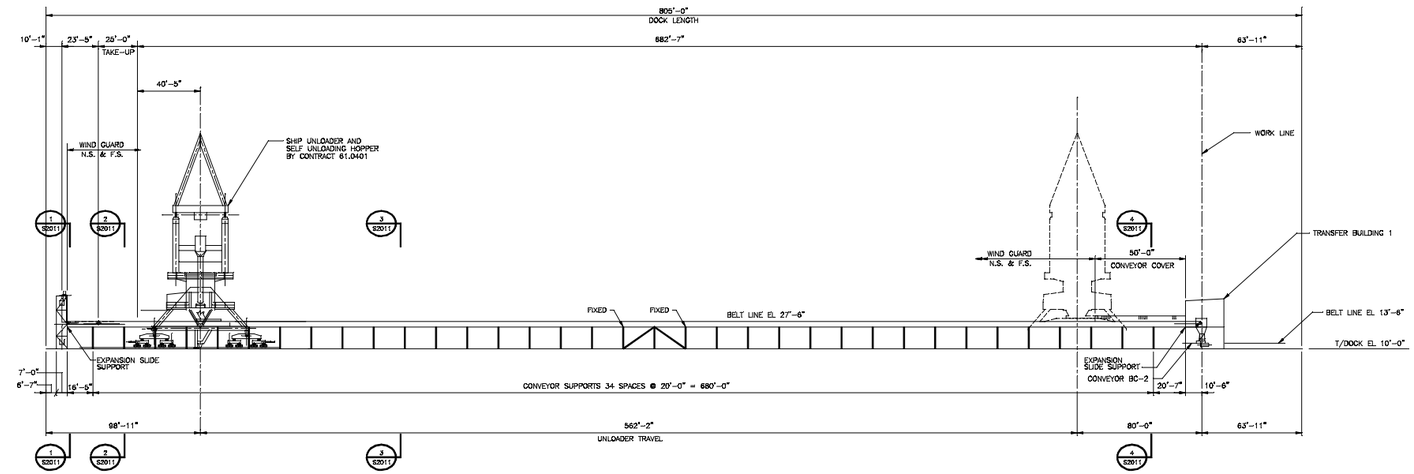
FUEL HANDLING-FLOW DIAGRAM

PROJECT 62713-CFH DRAWING NUMBER -S2010 REV 4

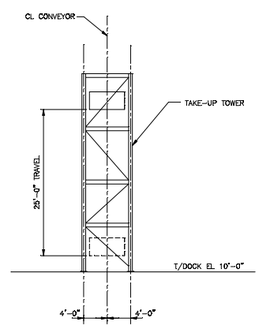
CODE

AREA

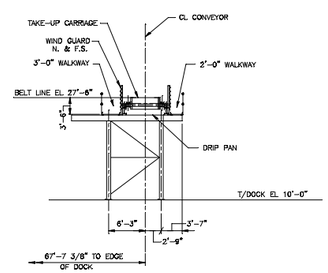
MAR32658 AUG3077 E1 ACAD 15.05 08/15/00 09:35:52 1-1



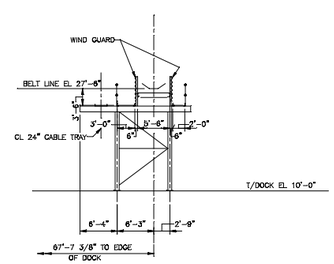
PROFILE CONVEYOR BC-1
SCALE: 1"=30'



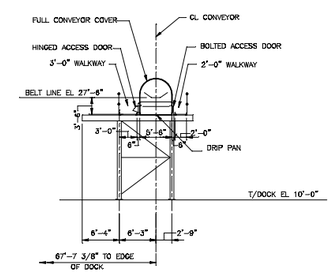
SECTION 1
SCALE: 1/8"=1'-0"
SEE THIS DRAWING



SECTION 2
SCALE: 1/8"=1'-0"
SEE THIS DRAWING



SECTION 3
SCALE: 1/8"=1'-0"
SEE THIS DRAWING



SECTION 4
SCALE: 1/8"=1'-0"
SEE THIS DRAWING

NOTES

THE FOLLOWING UTILITY LOADS ARE TO BE SUPPORTED BY THE CONVEYOR SUPPORT STRUCTURE:

1. a) ELECTRICAL = 80 LBS/LIN FT
   b) 8"ø FIRE PROTECTION = 51 LBS/LIN FT
   c) 5"ø VAC LINE = 50 LBS/LIN FT
   d) 2"ø AIR = 5 LBS/LIN FT
   e) 4"ø DUST SUP = 17 LBS/LIN FT
2. BOTTOM OF ALL BASEPLATES ARE AT EL 11'-2"

								3	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RL	WL	WS
							7	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWA	JWD	JDL	JDL	WL	WS	2	08-31-1999	GENERAL REVISIONS	MSN	JWD	RL	WL	WS
							6	01-21-2000	GENERAL REVISIONS	WAH	JWD	DEM	RL	WL	WS	1	07-01-1999	GENERAL REVISIONS	MJN	JWD	RL	WL	WS
							5	11-24-1999	GENERAL REVISIONS	WAH	JWD	DEM	RL	WL	WS	0	05-28-1999	INITIAL ISSUE	SME	JWD	RL	WL	WS
							4	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RL	WL	WS	NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

8' 4' 0 8' 16'
30' 20' 10' 0 30' 60'
1/8"=1'-0"
1"=30'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.
SIGNED RICHARD L. WARD
DATE: 9/28/99 REG NO. 33364

BLACK & VEATCH
JEA Building Community

ENGINEER	JWD	DRAWN	SMB
CHECKED	DEM	DATE	09-29-99

JEA EQUIPMENT NUMBER: NOO-FH

JEA DRAWING NUMBER

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

PROJECT: 62713-CFH
DRAWING NUMBER: -S2011
REV: 7

FUEL HANDLING-CONVEYOR PROFILE
CONVEYOR BC-1-ELEVATION

CODE:
AREA:

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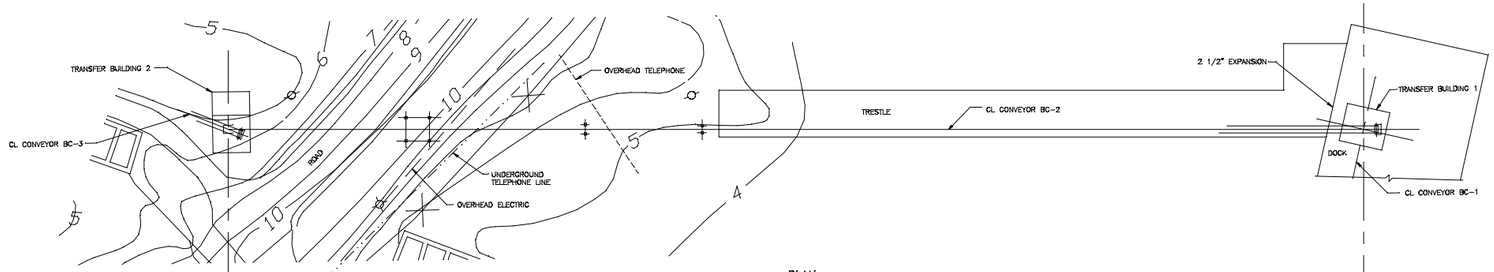
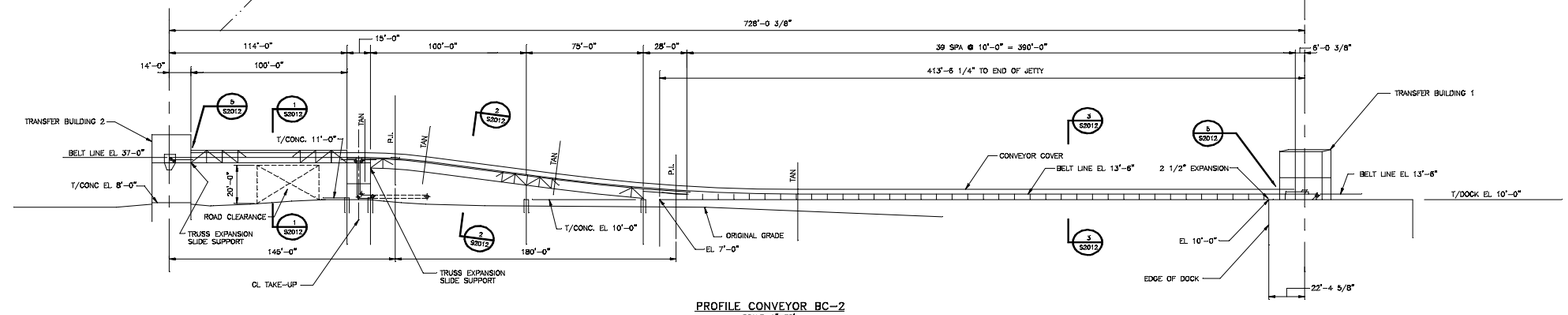
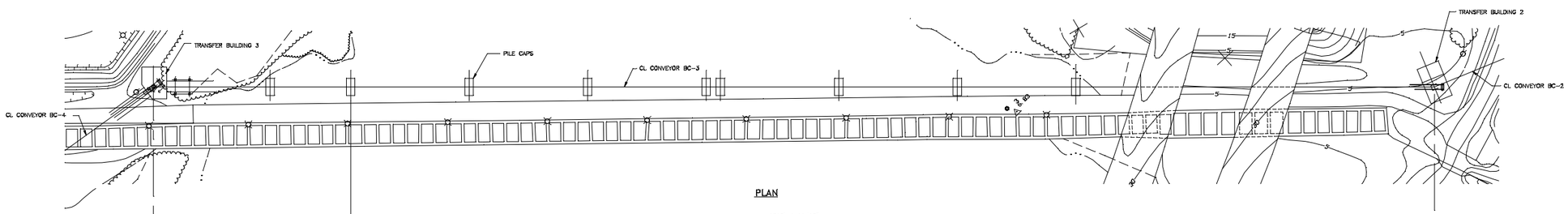
08/15/00 09:33:32



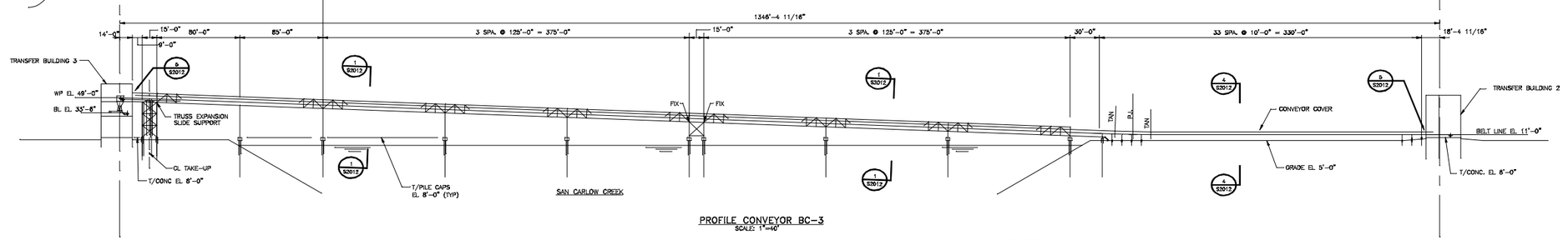
PLAN



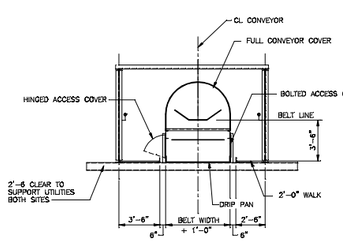
PROFILE CONVEYOR BC-2
SCALE: 1"=30'



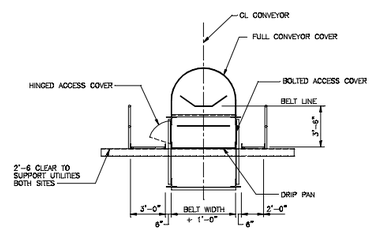
PLAN



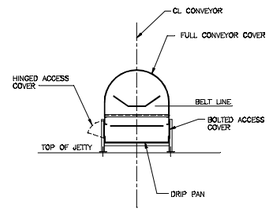
PROFILE CONVEYOR BC-3
SCALE 1"=40'



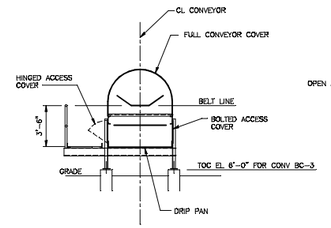
SECTION 1
TYPICAL @ WALK THROUGH TRUSS
SCALE 1/4" = 1'-0"



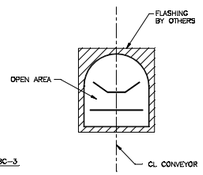
SECTION 2
TYPICAL @ INTEGRAL TRUSS
SCALE 1/4" = 1'-0"



SECTION 3
CONVEYOR ON JETTY
SCALE 1/4" = 1'-0"



SECTION 4
TYPICAL CONVEYOR ON GRADE
SCALE 1/4" = 1'-0"



DETAIL 5
TYPICAL CLOSURE @ CONVEYOR/BUILDING INTERFACE
NO SCALE

NOTES

1. THE FOLLOWING UTILITY LOADS ARE TO BE SUPPORTED BY THE CONVEYOR STRUCTURE:
   a) ELECTRICAL = 80 LBS/LIN FT
   b) 8"ø FIRE PROTECTION = 51 LBS/LIN FT
   c) 8"ø VAC LINE = 50 LBS/LIN FT
   d) 3"ø AIR = 5 LBS/LIN FT
   e) 4"ø DUST SUP = 17 LBS/LIN FT
2. BOTTOM OF BASEPLATES ARE 2" ABOVE TOC EL.

REV	DATE	DESCRIPTION	DRN	DES	CHK	PDE	APP
5	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWM	JWD	JOL	JOL	WS
4	01-21-2000	GENERAL REVISIONS	WAH	JWD	DEM	RJL	WS
3	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RJL	WS
2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RJL	WS
1	07-01-1999	GENERAL REVISION	CLM	JWD		RJL	WS
0	05-28-1999	INITIAL ISSUE	SMS	JWD		RJL	WS
NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP

40' 20' 0 40' 80'
30' 20' 10' 0 30' 60'
1"=40'
1"=30'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.
SIGNED RICHARD L. WARD
DATE: 9/28/99 REG NO. 33384

BLACK & VEATCH — JEA Building Community

ENGINEER	JWD
DRAWN	SMS
CHECKED	DEM
DATE	09-28-99

JEA EQUIPMENT NUMBER: NOO-FH

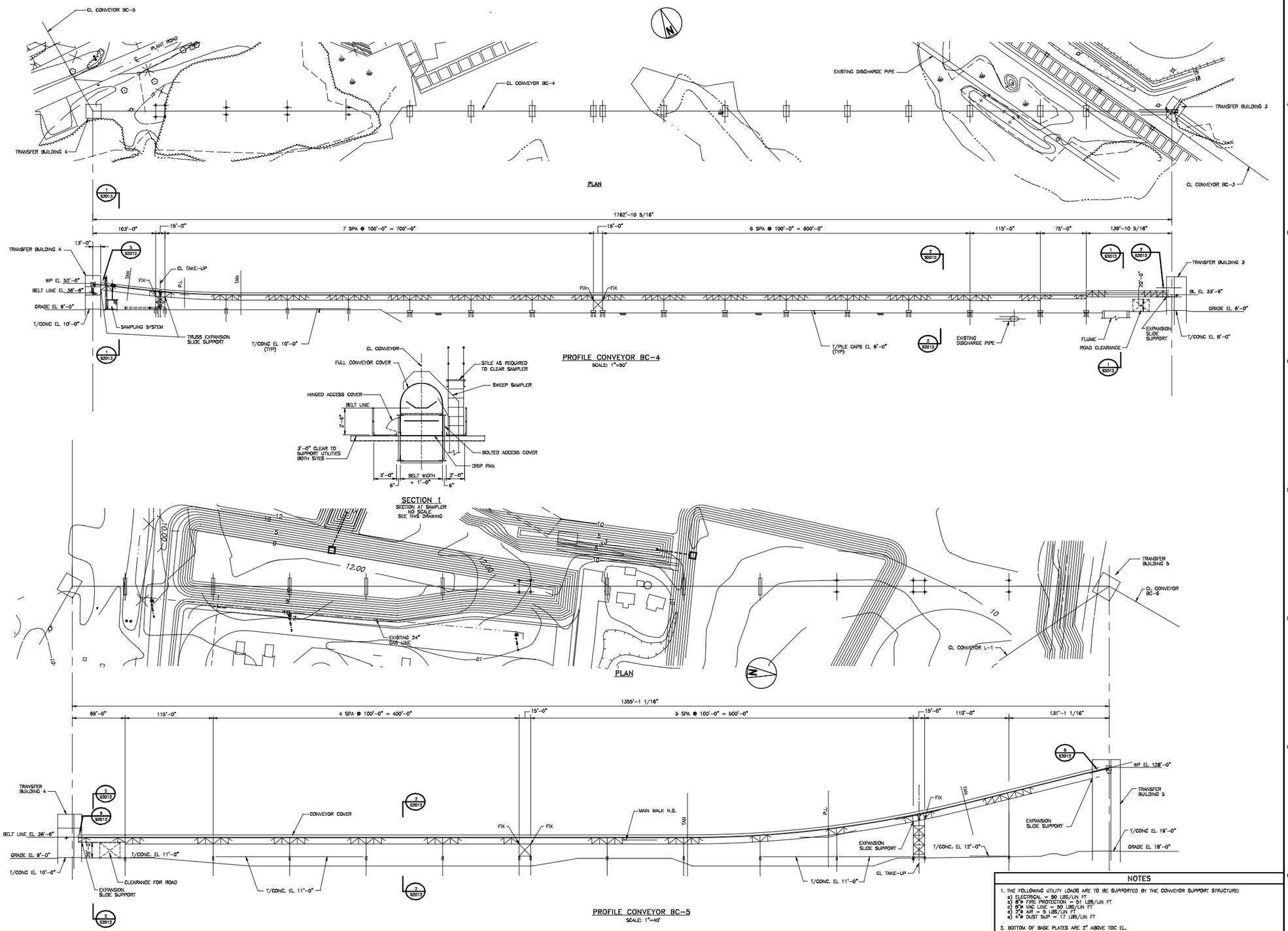
JEA DRAWING NUMBER

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

FUEL HANDLING-CONVEYOR PROFILES
CONVEYOR BC-2 & BC-3-ELEVATION

PROJECT: 62713-CFH
DRAWING NUMBER: -S2012
REV: 5
CODE:
AREA:

MAR32958
AVAILOUT7
08/15/02 09:31:46
E1
ACAD 15.05
1=40



NOTES

1. THE FOLLOWING UTILITY LOADS ARE TO BE SUPPORTED BY THE CONVEYOR SUPPORT STRUCTURES:
   a) ELECTRICAL = 80 LBS/LIN FT
   b) 8"Ø FIRE PROTECTION = 31 LBS/LIN FT
   c) 5"Ø VAC LINE = 20 LBS/LIN FT
   d) 2"Ø AIR = 5 LBS/LIN FT
   e) 4"Ø DUST SUP = 17 LBS/LIN FT
2. BOTTOM OF BASE PLATES ARE 2" ABOVE TOC EL.

JEA EQUIPMENT NUMBER	JEA DRAWING NUMBER
N00-FH	

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

FUEL HANDLING-CONVEYOR PROFILE
CONVEYORS BC-4 & BC-5 - ELEVATIONS

PROJECT	DRAWING NUMBER	REV
62713-CFH	-S2013	5

CODE:
AREA:

5	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWA	JWD	JJCL	JJCL	WS	0	05-28-1999	INITIAL ISSUE	SMB	RLM	WS
4	01-21-2000	GENERAL REVISIONS	WAH	JWD	DEM	RLM	WS	NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN	DES	CHK	PDE	APP
3	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RLM	WS								
2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RLM	WS								
1	07-01-1999	GENERAL REVISIONS	WAH	JWD		RLM	WS								

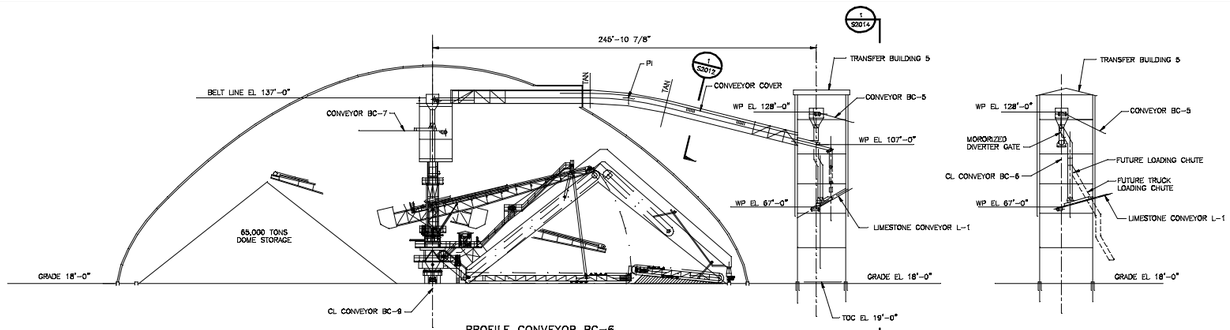
40' 20' 0 40' 80' 1"=40'
50' 25' 0 50' 100' 1"=50'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.
SIGNED RICHARD L. WARD
DATE: 9/29/99 REG NO. 33364

BLACK & VEATCH — JEA Building Community
ENGINEER JWD DRAWN SMB
CHECKED DEM DATE 09-28-99

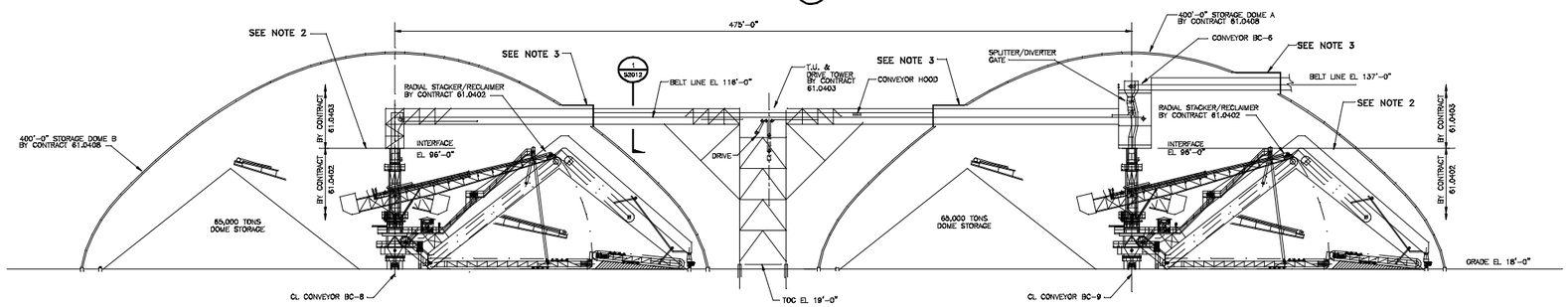
ACAD 15.05
EL 1=50
Sheet:S3

MAR13508
A1/S3.D17
06/15/00 Sheet:S3

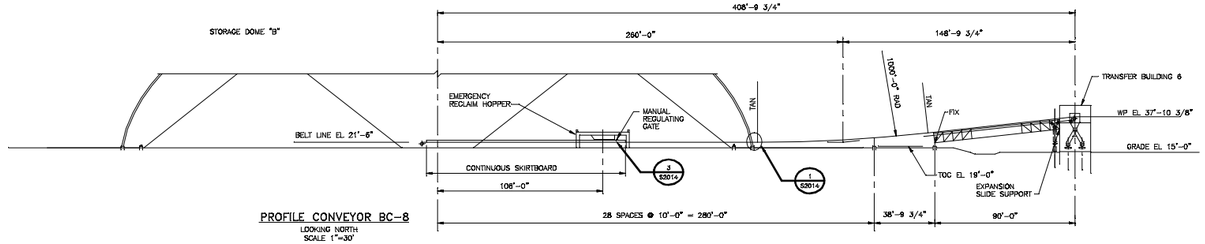


PROFILE CONVEYOR BC-6
LOOKING EAST
SCALE 1"=30'

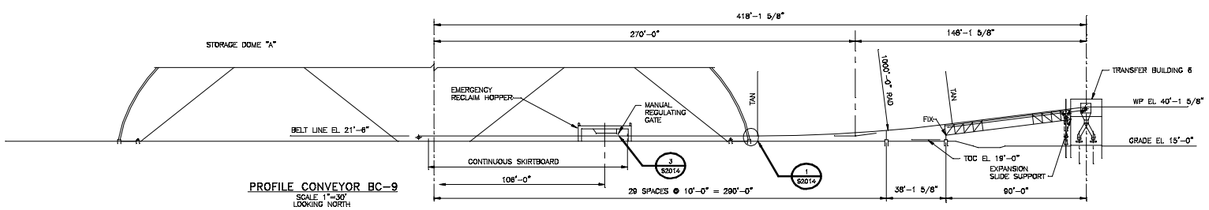
SECTION 1



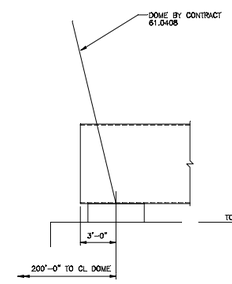
PROFILE CONVEYOR BC-7
LOOKING EAST
SCALE 1"=30'



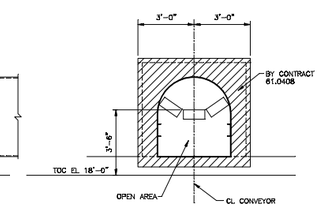
PROFILE CONVEYOR BC-8
LOOKING NORTH
SCALE 1"=30'



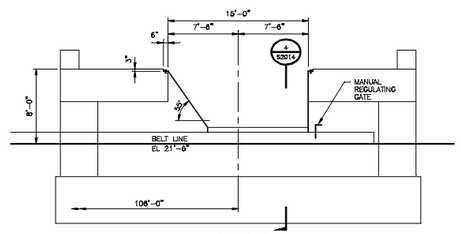
PROFILE CONVEYOR BC-9
SCALE 1"=30'
LOOKING NORTH



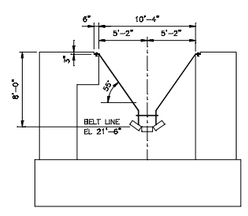
DETAIL 1
NO SCALE
SEE THIS DWG



SECTION 2
NO SCALE
SEE THIS DWG



DETAIL 3
NO SCALE
SEE THIS DWG



SECTION 4
NO SCALE
SEE THIS DWG

NOTES

1. THE FOLLOWING UTILITY LOADS ARE TO BE SUPPORTED BY THE CONVEYOR SUPPORT STRUCTURE:
   a) ELECTRICAL = 80 LBS/LIN FT
   b) 8"ø FIRE PROTECTION = 51 LBS/LIN FT
   c) 8"ø VAC LINE = 50 LBS/LIN FT
   d) 2"ø AIR = 5 LBS/LIN FT
   e) 4"ø DUST SUP = 17 LBS/LIN FT
2. LOADS TO STACKER/REDLAIMER CENTER COLUMN AT INTERFACE TO BE DOWNWARD VERTICAL FORCES ONLY, NOT TO EXCEED 225 KIPS. NO LATERAL FORCES WILL BE RESISTED AT CENTER COLUMN INTERFACE AND LATERAL DEFLECTIONS LIMITED TO 4" (2" EACH SIDE OF CENTER).
3. LOADS TO DOME STRUCTURE AT INTERFACE BETWEEN THE DOME AND CONVEYOR TRUSS TO BE HORIZONTAL FORCES ONLY NOT TO EXCEED 45 KIPS. NO VERTICAL FORCES FROM THE CONVEYOR TRUSS WILL BE RESISTED BY THE DOME STRUCTURE. VERTICAL DEFLECTION AT CONVEYOR/DOME INTERFACE IS LIMITED TO 3" DOWNWARD.
4. BOTTOM OF BASEPLATES ARE 2" ABOVE TOC ELEVATION.

REV	DATE	DESCRIPTION	DRN	DES	CHK	PDE	APP
6	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWM	JWD	JDL	JDL	WS
5	01-21-2000	GENERAL REVISIONS	WAH	JWD	DEM	RLM	WS
4	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RLM	WS
3	11-05-1999	CHANGE 8 & 9 PROFILE	WAH	JWD	DEM	RLM	WS
2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RLM	WS
1	07-01-1999	GENERAL REVISION	SMS	JWD		RLM	WS
0	05-28-1999	INITIAL ISSUE	SMS	JWD		RLM	WS

30' 20' 10' 0 30' 60'
1"=30'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.
SIGNED RICHARD L. WARD
DATE: 9/28/99 REG NO. 33384

BLACK & VEATCH — JEA Building Community
ENGINEER JWD DRAWN SMS
CHECKED DEM DATE 09-28-99

JEA EQUIPMENT NUMBER: NOO-FH
JEA DRAWING NUMBER

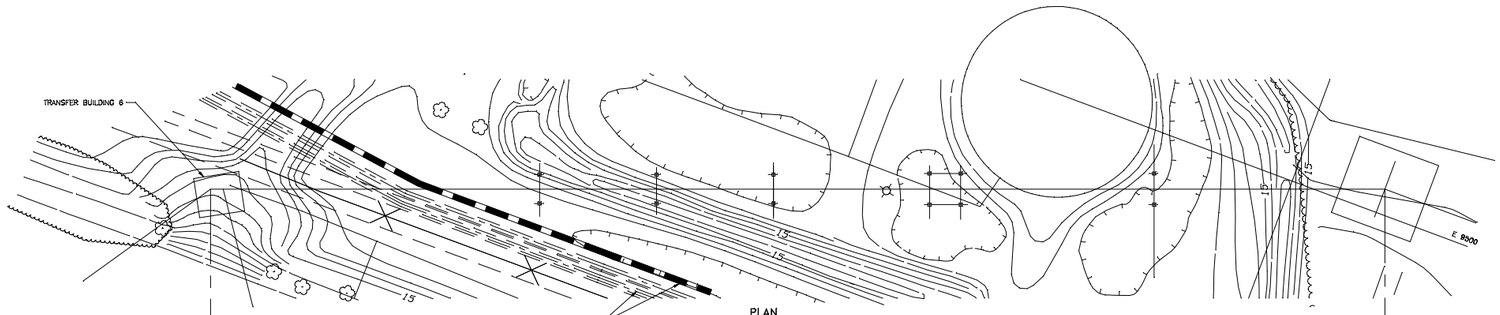
JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

PROJECT DRAWING NUMBER: 62713-CFH -S2014 REV 6

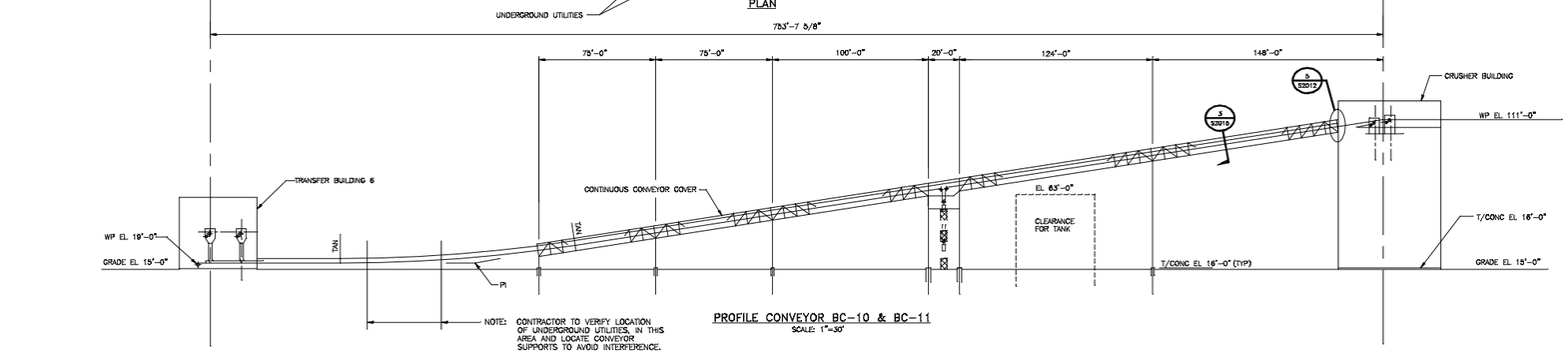
FUEL HANDLING-CONVEYOR PROFILE
CONVEYORS BC-6, 7, 8 & 9-ELEVATIONS

CODE
AREA

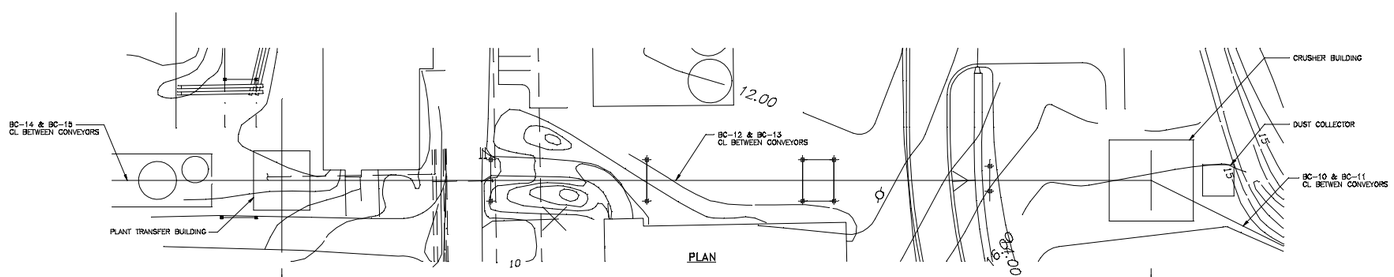
MAR13568
A/NS5373
08/15/02 11:34:00
ACAD 15.05
1=60



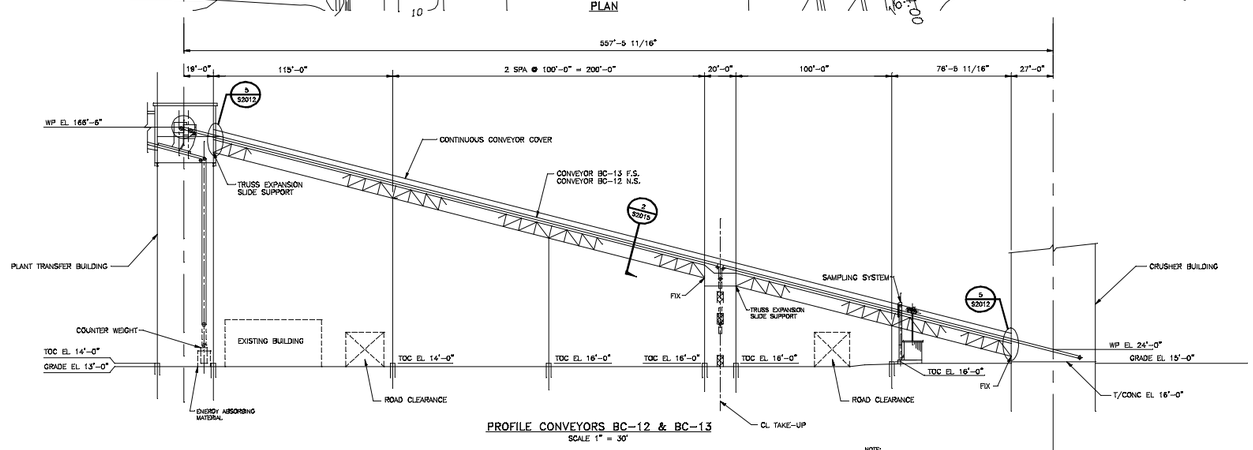
PLAN



PROFILE CONVEYOR BC-10 & BC-11
SCALE: 1"=30'

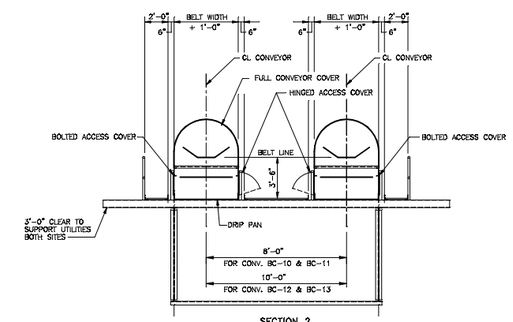


PLAN

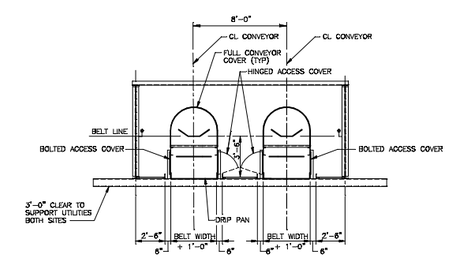


PROFILE CONVEYORS BC-12 & BC-13
SCALE 1" = 30'

NOTE:
PRIMARY SAMPLE DISCHARGE TO CENTER WALKWAY. PRIMARY SAMPLERS ARE OFFSET



SECTION 2
TYPICAL @ WALK THROUGH TRUSS
SCALE: NTS



SECTION 3
TYPICAL @ WALK THROUGH TRUSS
SCALE 1/4" = 1'-0"

NOTES

1. THE FOLLOWING UTILITY LOADS ARE TO BE SUPPORTED BY THE CONVEYOR SUPPORT STRUCTURE:
   a) ELECTRICAL = 80 LBS/LIN FT
   b) 8"ø FIRE PROTECTION = 51 LBS/LIN FT
   c) 8"ø VAC LINE = 50 LBS/LIN FT
   d) 2"ø AIR = 5 LBS/LIN FT
   e) 4"ø DUST SUP = 17 LBS/LIN FT
2. BOTTOM OB BASE PLATES ARE 2" ABOVE TOC EL.

REV	DATE	DESCRIPTION	DRN	DES	CHK	PDG	APP
5	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWA	JWD	JLO	JLO	LWS
4	01-21-2000	GENERAL REVISIONS	WAH	JWD	DEM	RLM	LWS
3	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RLM	LWS
2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RLM	LWS
1	07-01-1999	GENERAL REVISIONS	WAH	JWD		RLM	LWS
0	05-28-1999	INITIAL ISSUE	SHB	JWD		RLM	LWS

NO DATE REVISIONS AND RECORD OF ISSUE

30' 20' 10' 0 30' 60'
1"=30'

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA.

SIGNED RICHARD L. WARD
DATE: 9/28/99 REG NO. 33364

BLACK & VEATCH — JEA Building Community

ENGINEER JWD DRAWN SHB
CHECKED DEM DATE 09-28-99

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

FUEL HANDLING-CONVEYOR PROFILE
CONVEYORS BC-10,BC-11,BC-12 & BC-13-ELS

JEA EQUIPMENT NUMBER: NOO-FH
JEA DRAWING NUMBER
PROJECT: 62713-CFH
DRAWING NUMBER: -S2015
REV: 5
CODE
AREA

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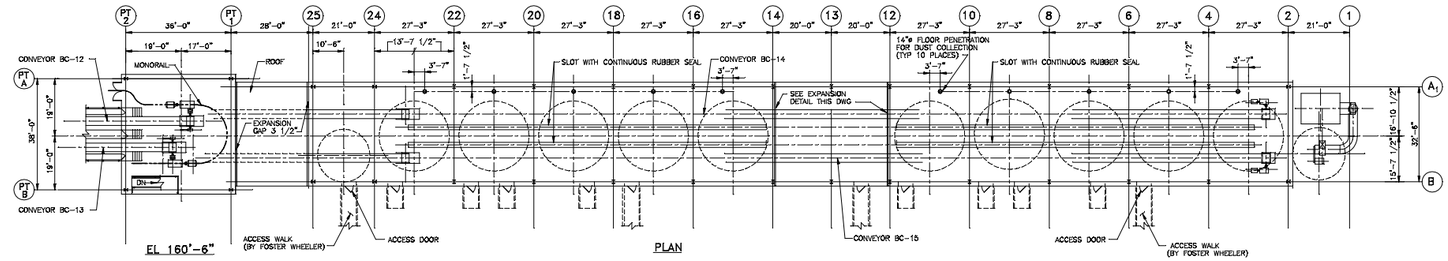
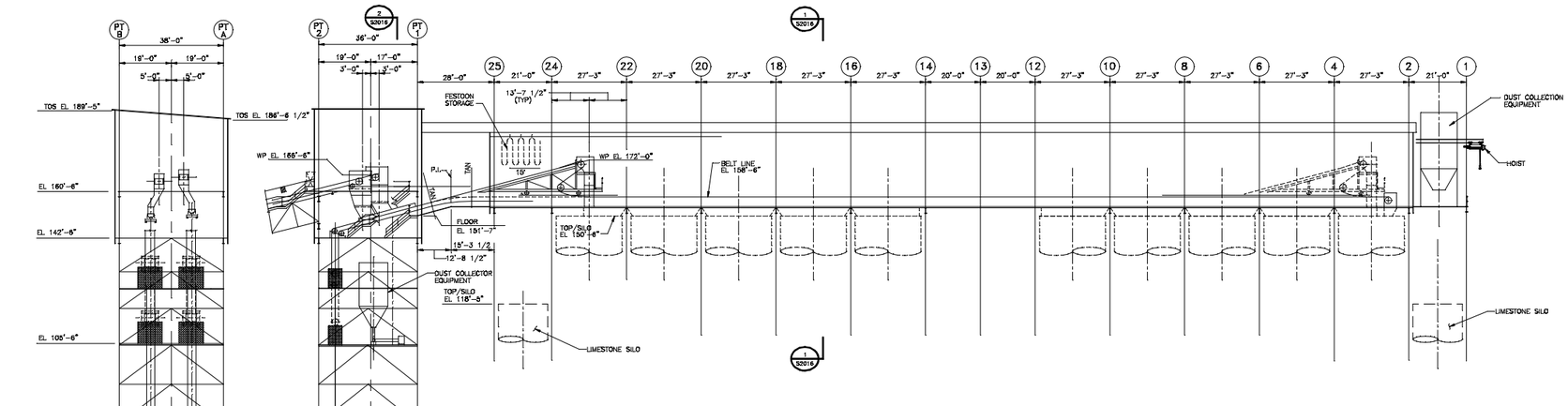
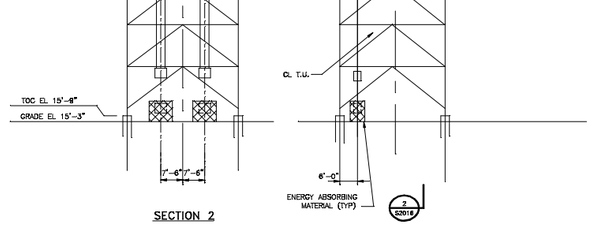


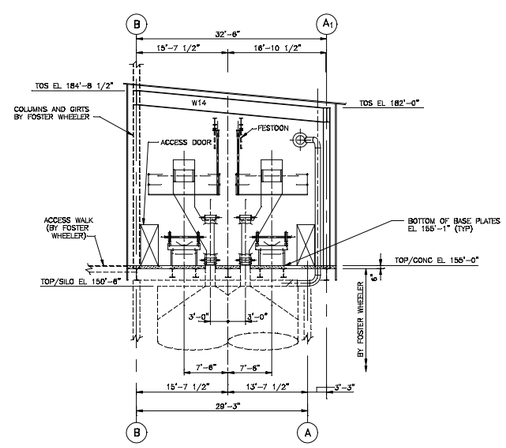
PLAN



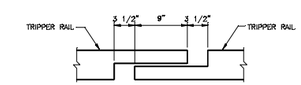
PROFILE CONVEYORS BC-14 & BC-15
LOOKING EAST
SCALE: 1/16"=1'-0"



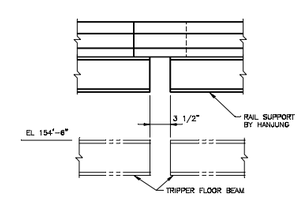
SECTION 2



SECTION 1
SCALE: 1/8"=1'-0"



PLAN



ELEVATION
TRIPPER RAIL EXPANSION DETAIL
TYPICAL @ COL ROW 12 & 14
TYPICAL 8 PLACES

NOTES

1. SEE FOSTER WHEELER DRAWING 43-7587-S-1133 FOR TRIPPER FLOOR STEEL. TRIPPER CONVEYOR SUPPORT LEGS ARE TO BE SPACED ACCORDINGLY.

REV	DATE	DESCRIPTION	DRN	DES	CHK	PDE	APP
6	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWM	JWD	JOL	JOL	WS
5	02-11-2000	GENERAL REVISIONS	WAH	JWD	DEM	RLW	WS
4	01-21-2000	GENERAL REVISIONS	WAH	JWD	DEM	RLW	WS
3	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RLW	WS
2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RLW	WS
1	07-01-1999	GENERAL REVISIONS	MJN	JWD		RLW	WS
0	05-28-1999	INITIAL ISSUE	SMB	JWD		RLW	WS
NO	DATE	REVISIONS AND RECORD OF ISSUE					

8' 4' 0 8' 16'
1/8"=1'-0"
16' 12' 8' 4' 0 16' 32'
SCALE: 1/16"=1'-0"

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA
SIGNED RICHARD L. WARD
DATE: 9/28/99 REG NO. 33384

BLACK & VEATCH
JEA Building Community

ENGINEER	DRAWN	DATE
JWD	SMB	09-28-99
CHECKED DEM		

JEA EQUIPMENT NUMBER: NOO-FH
JEA DRAWING NUMBER

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

FUEL HANDLING-CONVEYOR PROFILE
CONVEYORS BC-14 & BC-15-ELEVATIONS

PROJECT DRAWING NUMBER: 62713-CFH -S2016
REV: 6
CODE
AREA

MAR21958 ACAD 15.0S
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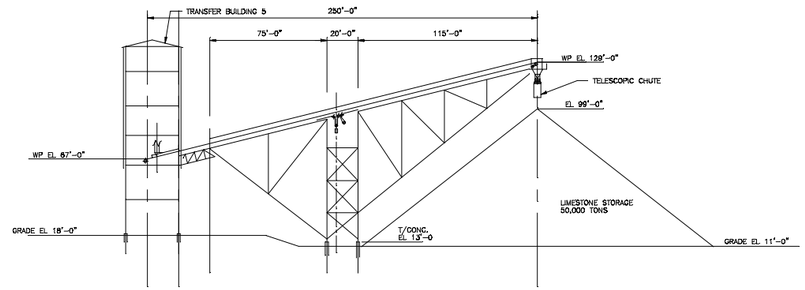
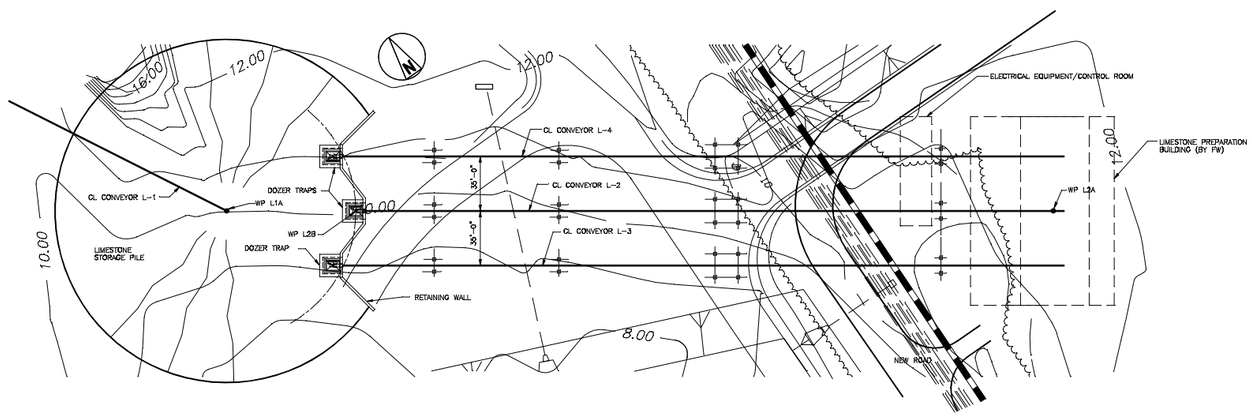
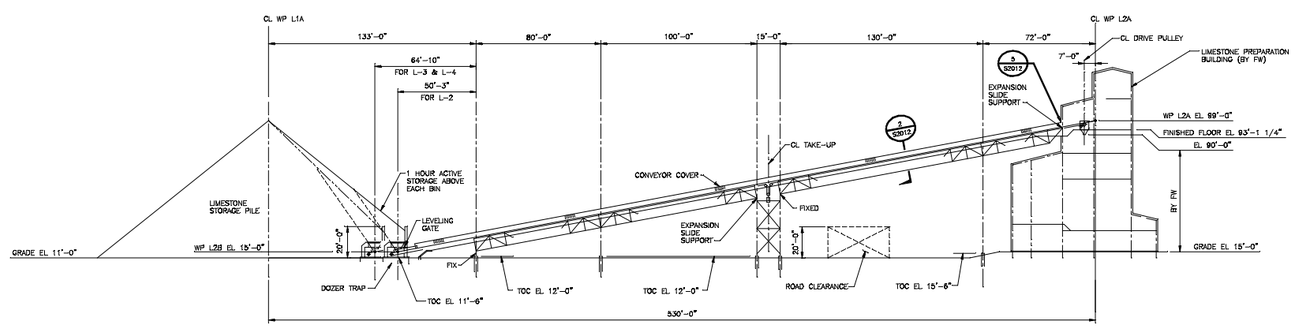
08/15/02 10:00:38



PROFILE CONVEYOR L-1
SCALE 1" = 30'



PLAN



ELEVATION

PROFILE LIMESTONE FEEDER CONVEYORS L-2, L-3, & L-4
SCALE: 1" = 30'-0"

NOTES

1. THE FOLLOWING UTILITY LOADS ARE TO BE SUPPORTED BY THE CONVEYOR SUPPORT STRUCTURE:
   a) ELECTRICAL = 80 LBS/LIN FT
   b) 8"ø FIRE PROTECTION = 51 LBS/LIN FT
   c) 8"ø VAC LINE = 50 LBS/LIN FT
   d) 2"ø AIR = 5 LBS/LIN FT
   e) 4"ø DUST SUP = 17 LBS/LIN FT
2. BOTTOM OF BASE PLATES ARE 2" ABOVE TOC EL.

						3	11-12-1999	GENERAL REVISIONS	WAH	JWD	DEM	RLW
						2	09-29-1999	APPROVED FOR CONSTRUCTION	WAH	JWD	DEM	RLW
						1	07-01-1999	GENERAL REVISION	WAH	JWD		RLW
		5	08-15-2002	CONFORMS WITH CONSTRUCTION RECORDS	DWM	JWD	JCK	JCK	0	06-18-1999	INITIAL ISSUE	SMB
		4	02-11-2000	GENERAL REVISIONS	MSN	JWD	DEM	RLW	NO	DATE	REVISIONS AND RECORD OF ISSUE	DRN

30' 20' 10' 0 30' 60'
SCALE: 1"=30'

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SIGNED RICHARD L. WARD
DATE 9/28/99 REG NO. 33384

BLACK & VEATCH
JEA Building Community

ENGINEER	JWD	DRAWN	SMB
CHECKED	DEM	DATE	09-28-99

JEA EQUIPMENT NUMBER: N00-RH
JEA DRAWING NUMBER

JEA
NORTHSIDE UNITS 1 & 2 REPOWERING PROJECT

PROJECT: 62713-CRH
DRAWING NUMBER: -S2017
REV: 5

FUEL HANDLING-CONVEYOR PROFILE
CONVEYORS L-1, L-2 & L-3-ELEVATION

CODE:
AREA:

MAR32658
ACAD 14.06
E1
AVAILITY
1"=30'
08/15/00 10:00:13