

NOTES:

- 1) WORK THIS DRAWING WITH DRAWINGS 20829 THRU 20831.
- 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WL, UNLESS NOTED OTHERWISE.
- 3) Δ - INDICATES DWS REVISION LEVEL.

3	12/94	BCL	—	DES	WVS	INCORP DCR 91-32 CA-8
2	5/4/90	NRB	FCB	APL	DWS	ES
1	2/2/87	VDS	TAK	WRD	BCL	VWS
0	1/28/86	JDM	GJS	WES	MJY	WFD
REV	DATE	DSGN	DRWN	CHKD	CDE	SES
						DESCRIPTION
						ISSUED FOR OPERATIONS
						ADDED NOTE 3 AND REVISED PER LATEST SYSTEM DRAWINGS
						INCORP DCR 86-96 CA 8/9
						SOLID WASTE SYS. SPT. RESIN CONC. P & ID
						WL SYSTEM-DEMIN. & TESTING - P & ID
						WL SYSTEM-EVAPORATOR EV-4 - P & ID
						WL SYSTEM-STORAGE & FILTRATION - P & ID
						TITLE
						REV
						REF. DRAWING NO.

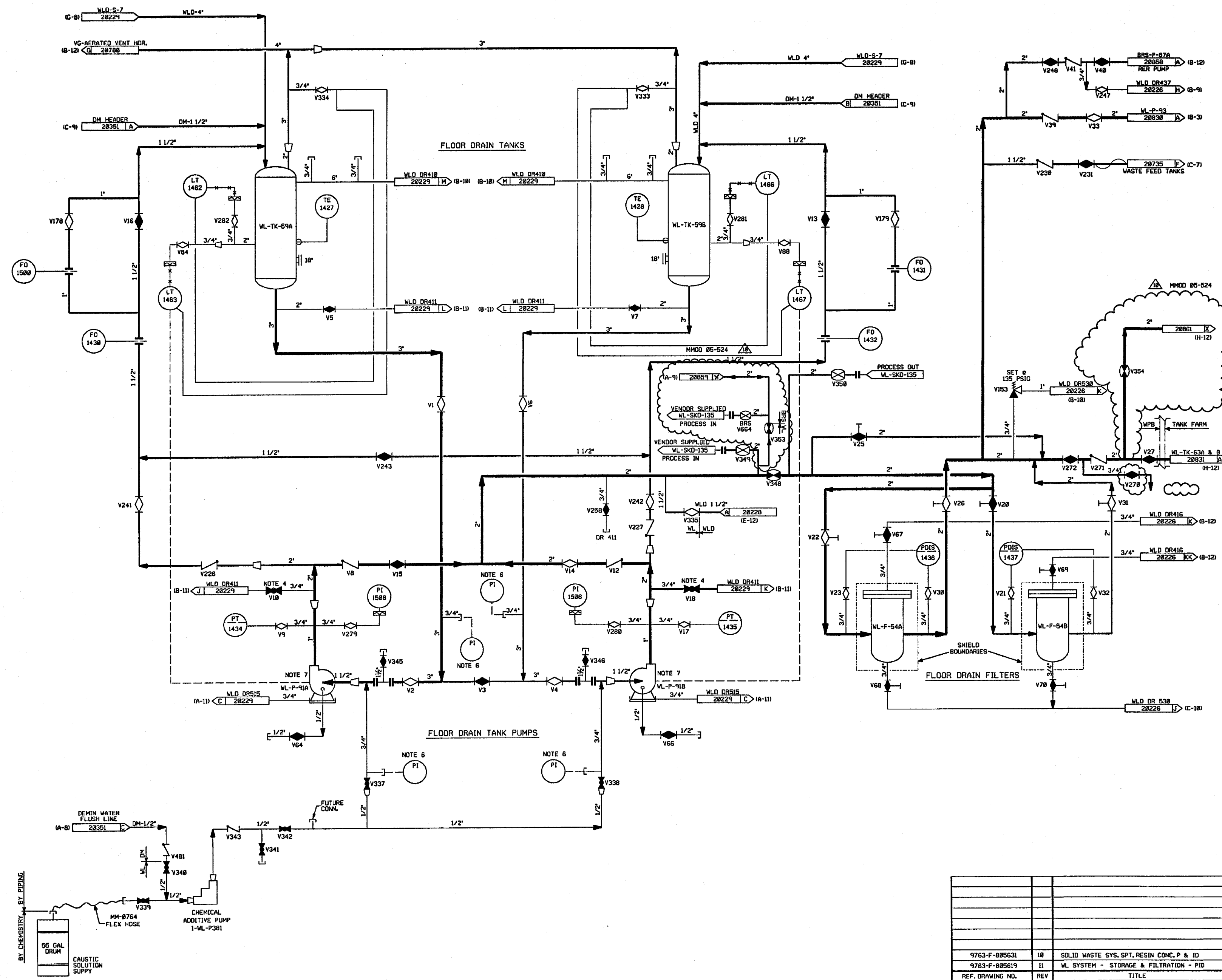
North Atlantic Energy Service Corporation

LIQUID WASTE SYSTEM OVERVIEW

PID- 1-WL-B20828

PID-1-WL-B20829

FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

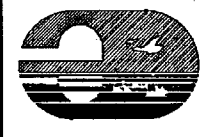


- NOTES:
1. WORK THIS DWG WITH DWGS 20820, 20830, & 20831.
 2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX WL UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS NMS UNLESS NOTED OTHERWISE.
 4. FLUSH, VENT, AND/OR SAMPLE CONNECTION PIPE TO LOCAL DRAIN FUNNEL.
 5. TELL TALE DRAIN PIPED TO LOCAL DRAIN FUNNEL.
 6. START UP ENGINEERING TO PROVIDE PIPING, VALVES & PITS ALSO STRAINER BLOW OFF PIPING & VALVES FOR INITIAL FLUSHING OPERATION. STRAINER SCREEN TO BE REMOVED AFTER START UP.
 7. SEE P&ID DM-20853 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.

10	6/18/04	BCL	JM	DR	INCORP MMD 05-524 DCH-08, 02
9	6/17/03	MRB	BCL	VMS	INCORP DCR 91-32 CA0
8	4/21/02	MRB	BCL	JEV	INCORP MMD 91-515 CA0
7	12/13/98	MRB	JM	RSG	INCORP MMD 90-610 CA01
6	10/31/98	MRB	JM	RSG	PARTIAL INCORP OF MMD 90-610 CA 00 REVISED NOTE 7 FOR CLARITY
5	5/4/98	MRB	APL	ES	INCORP DCR 86-96 CA 09 AND DCR 86-93 CA
4	11/17/87	MPW	BCL	WFD	INCORP DCR 86-662 CA01, REVISED NOTE 3
3	6/28/87	JDM	PAL	RRC	INCORP DCR 86-673
2	11/28/86	CSB	WFO	RRC	ADDED P&ID REF DWG NOTE, DWG CONT CORRECTS SEALS TO P-1000 & 1500 PER ASSULT COND. FLANGES & FITTINGS PER ASSULT COND. REVISED LIT TAG NO TO CORRECT DRAFTING ERRORS, REV'D 2 LINE TO WL-F-54A & B PER ASSULT.
1	6/13/86	DWS	DWS	RRC	ADDED WL, WLD & VG CONTINUATIONS
0	1/28/86	JDM	WES	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY

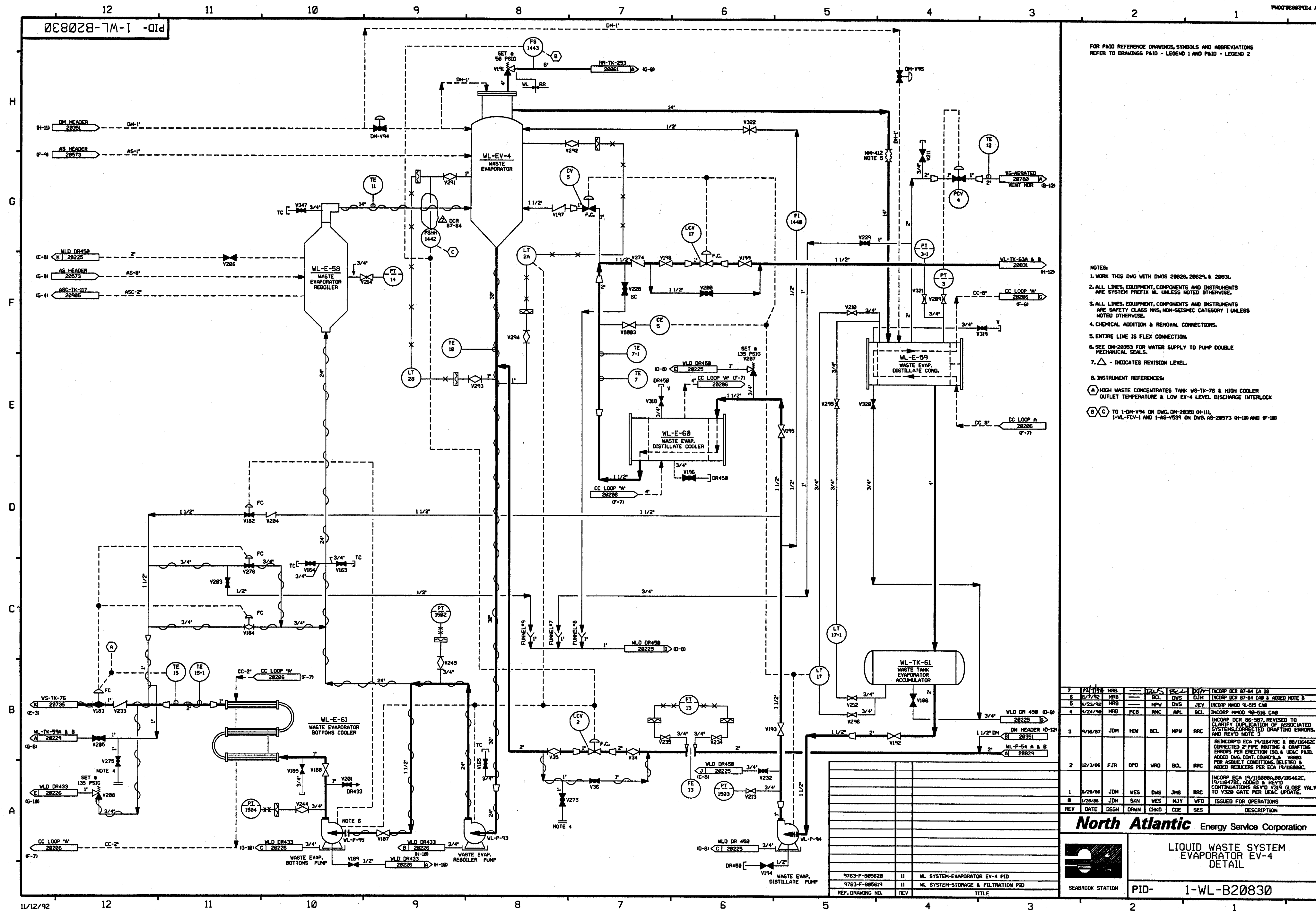
Seabrook Station



LIQUID WASTE SYSTEM
STORAGE & FILTRATION
DETAIL

PID- 1-WL-B20829

9763-F-885631	10	SOLID WASTE SYS. SPT. RESIN CONC. P & ID
9763-F-885619	11	WL SYSTEM - STORAGE & FILTRATION - PID
REF. DRAWING NO.	REV	TITLE



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS:
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

NOTES:

1. WORK THIS DWG WITH DWGS 28628, 28629, & 28631.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SYSTEM PREFIX ML UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS INS. NON-SEISMIC CATEGORY I UNLESS NOTED OTHERWISE.
4. CHEMICAL ADDITION & REMOVAL CONNECTIONS.
5. ENTIRE LINE IS FLEX CONNECTION.
6. SEE DD-28953 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
7. Δ - INDICATES REVISION LEVEL.

8. INSTRUMENT REFERENCES:

(A) HIGH WASTE CONCENTRATES TANK WS-TK-76 & HIGH COOLER
OUTLET TEMPERATURE & LOW EV-4 LEVEL DISCHARGE INTERLOCK

(B) (C) TO 1-DW-V94 ON DWG. DD-28363 04-111,
1-ML-FCV-1 AND 1-AS-V939 ON DWG. AS-28573 04-180 AND 04-180

7	1/17/78	MRB	BCL	DMS	DJM	INCPOR DCR 87-84 CA 28
8	1/17/78	MRB	BCL	DMS	DJM	INCPOR DCR 87-84 CAG & ADDED NOTE 8
9	4/23/78	MRB	MFV	APL	BCL	INCPOR HMOO 88-35 CAG
10	8/24/78	MRB	FCB	RMC	APL	INCPOR HMOO 88-316 CAG
11	9/17/78	JDM	HW	BCL	MFV	INCPOR DCR 88-587, REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS CONTAINED DRAFTING ERRORS, AND REV'D NOTE 5
12	3/12/79	JDM	HW	BCL	MFV	REINCPOR'D ECA 19/18478C & 88/16452C CORRECTED 2 PIPS ROUTING & DRAFTING ERRORS PER ELECTION ISA & EAC PAID. ADDED DNG, DCM, COORDS., & V8803 PER ASBUILT CONDITIONS. DELETED & ADDED REDUCERS PER ECA 19/18478C.
13	12/3/96	FJR	OPD	WRD	BCL	INCPOR ECA 19/18888A.88/16452C, 19/18478C, ADDED & REV'D CONTINUATIONS REV'D V87 GLOBE VALV. TO V320 GLOBE PER UAC CLOSE.
14	6/26/86	JDM	WES	DMS	JWS	ISSUED FOR OPERATIONS
15	1/28/86	JDM	SKN	MES	MJY	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	COD	DESCRIPTION

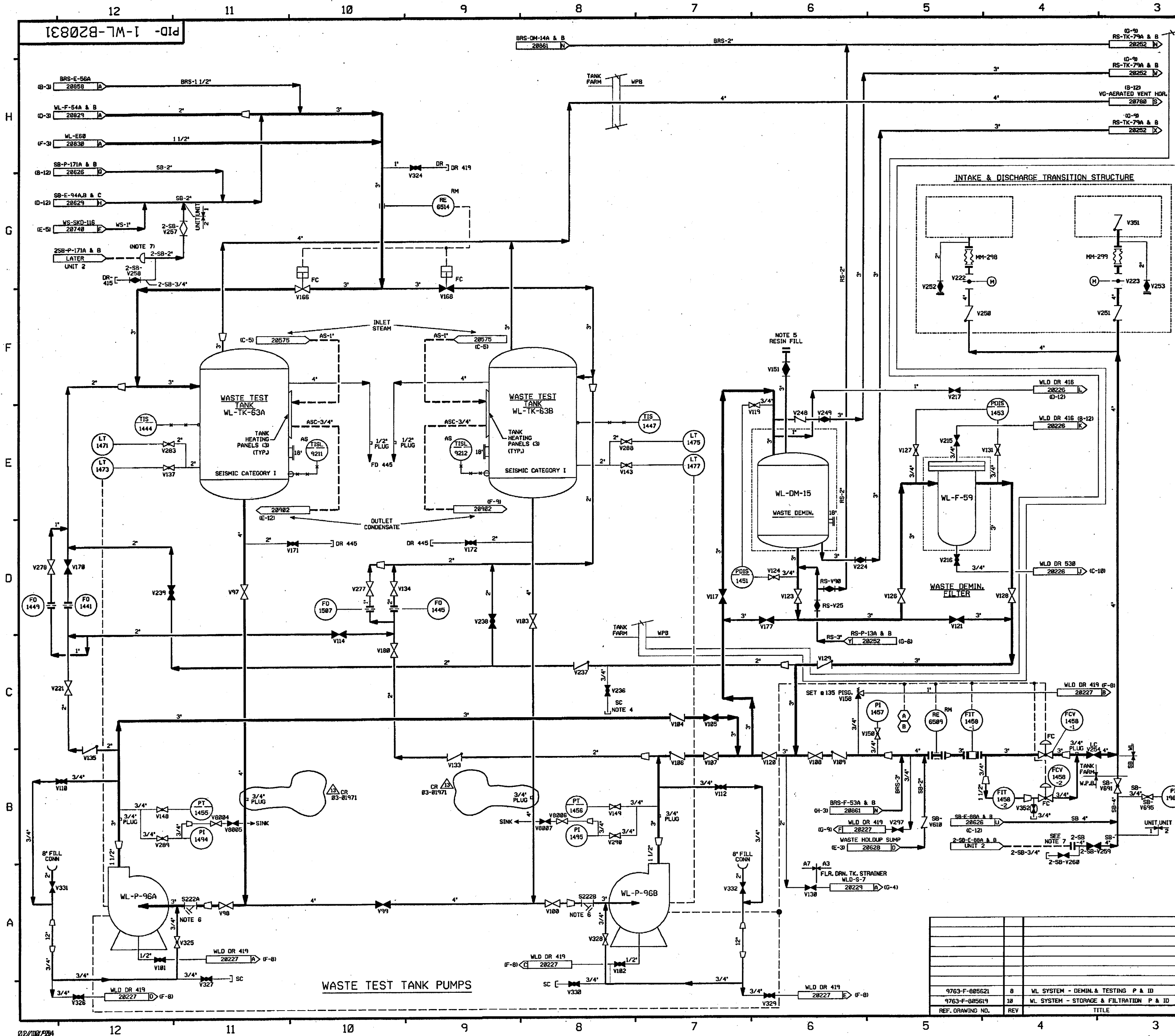
REV	DATE	DOCN	DTWN	CHRD	CDE	SES	DESCRIPTION
North Atlantic Energy Service Corporation							



LIQUID WASTE SYSTEM
EVAPORATOR EV-4
DETAIL

SEABROOK STATION

PID- 1-WL-B20830



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

NOTES:

1. WORK THIS DRAWING WITH DRAWINGS 20828, 20829 & 20838.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WL UNLESS NOTED OTHERWISE.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED OTHERWISE.
4. FLUSH AND SAMPLE CONNECTION USE FLEXIBLE HOSE TO A LOCAL DRAIN FUNNEL TO FLUSH THE LINE, USE POLYETHYLENE COLLECTION BOTTLES TO COLLECT SAMPLES.
5. RESIN FILL TANK (TYP.) AS SHOWN ON DWG. BRS-20861.
6. START-UP ENGINEERING TO PROVIDE PIPING, VALVE AND P & ID'S ALSO STRAINER SLOOFF PIPING & VALVES FOR INITIAL FLUSHING OPERATION STRAINER SCREEN TO BE REMOVED AFTER START-UP.
7. LINE BLIND FLANGED TO ISOLATE UNIT 1 FROM UNIT 2.
8. Δ INDICATES REVISION LEVEL.
9. INSTRUMENT REFERENCES
 (A) FROM SB-P-292 DRAWING SB-20828
 (B) FROM BRS-P-908/8 DRAWING BRS-20861

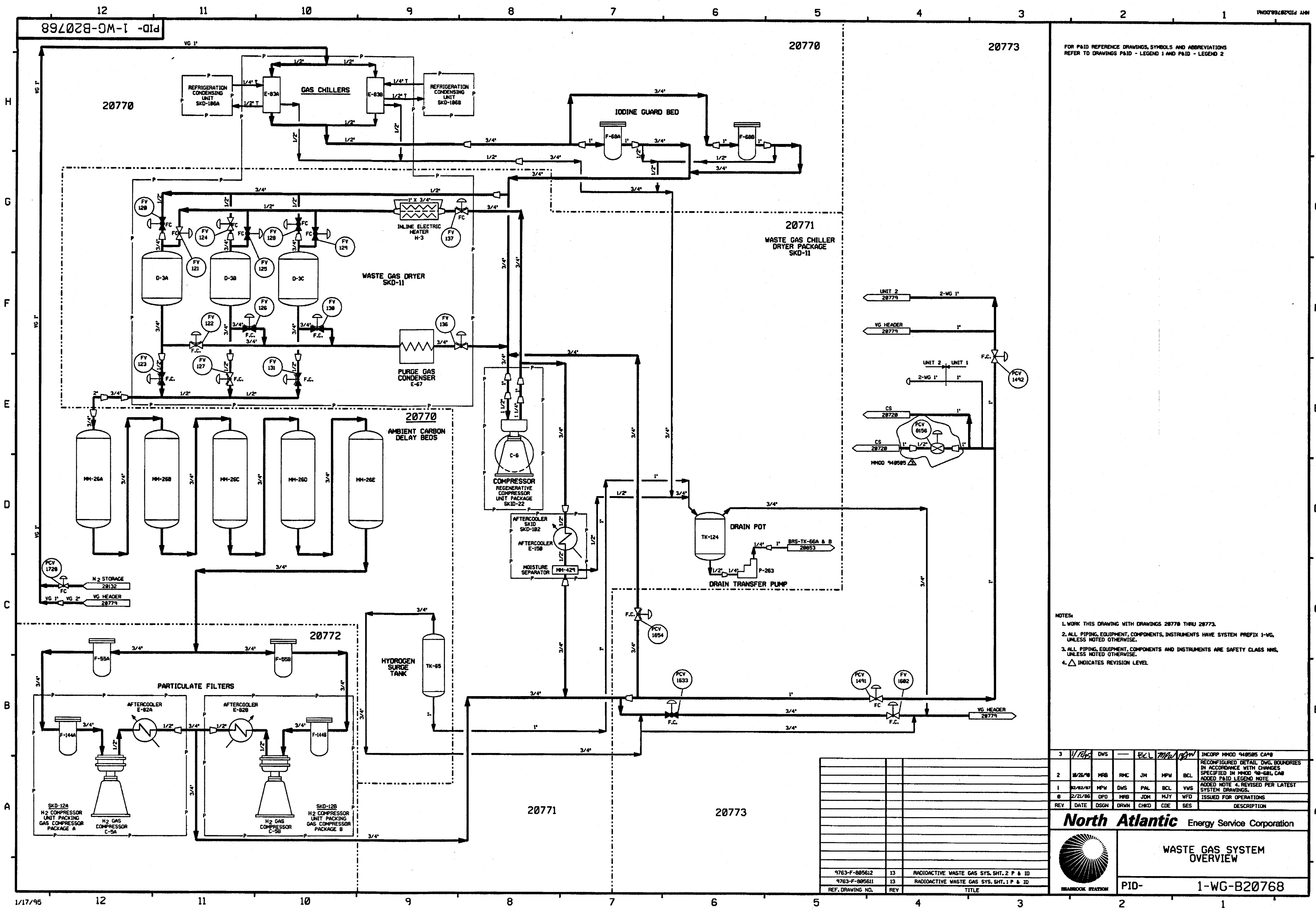
REV	DATE	BY	CHKD	DESCRIPTION
13	1/13/99	JH	BS	INCORP CR 83-01971 REV 08
12	1/13/99	BS	WVS	INCORP MMD 98-686 DCH-08
11	1/13/99	BS	JCM	INCORP MMD 97-632 DCH-08
10	3/7/97	BS	RR	INCORP DCR 96-22 DCH-08
9	6/12/96	MR	WVS	INCORP DCR 91-32 CAG
8	4/2/92	MR	BCL	INCORP DCR 88-31 CAG & MMD 91-515 CAG
7	10/29/90	MR	JH	INCORP MMD 88-681 CAG
6	3/28/89	MR	PAL	INCORP DCR 86-185 CA 3
5	11/1/88	MR	OPH	INCORP DCR 86-51 CA 81 & ECA 99/1120568 REVISED NOTE 3, PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES ADDED CONTINUATION TAG & LOCATION COORDINATE OFF V227 DELETED INCOMPLETE ITEM, DUPLICATED VALVE SB-V259 ON DWG SB-20828
4	12/22/86	JDM	WRD	ADDED NOTE 8, SAMPLE SINK SUPPLY LINES, CONT. REF. DWGS. PAID REF. DWG. NOTE., & VLVs. V8004, 5, 6, 7. INCORP. ECA 19/1107976A
3	10/28/86	JDM	WRD	INCORP ECA 19/111538C
2	9/2/86	JDM	WRD	INCORP ECA 99/117862B
1	6/1/86	JDM	WVS	ADDED INCORP. ITEM, ADDED & REV'D CONT. INCORP. ECA 19/110123A & ECA 99/888934A INCORP. LATEST REF. DWG. REVS
REV	DATE	DSGN	CHKD	CE

FPL ENERGY

Seabrook Station

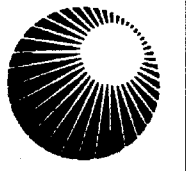
LIQUID WASTE SYSTEM
DEMINERALIZATION & TESTING
DETAIL

PID- 1-WL-B20831



- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20770 THRU 20773.
 2. ALL PIPING, EQUIPMENT, COMPONENTS, INSTRUMENTS HAVE SYSTEM PREFIX 1-WG, UNLESS NOTED OTHERWISE.
 3. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS, UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.

3	11/18/95	DWS	—	ECL	MPW	BCL	INCORP MH00 940505 CA#0
2	10/26/90	MRB	RMC	JM	MPW	BCL	RECONFIGURED DETAIL DWG. BOUNDARIES IN ACCORDANCE WITH CHANGES SPECIFIED IN MH00 94-0801, CA#0
1	02/02/87	MPW	DWS	PAL	BCL	YMS	ADDED P&ID LEGEND NOTE
0	2/21/86	OPD	MRB	JDM	MJY	WFD	ADDED NOTE 4, REVISED PER LATEST SYSTEM DRAWINGS.
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

**North Atlantic** Energy Service Corporation

WASTE GAS SYSTEM OVERVIEW

9763-F-80561213

9763-F-80561113

REF. DRAWING NO.

13

13

REV

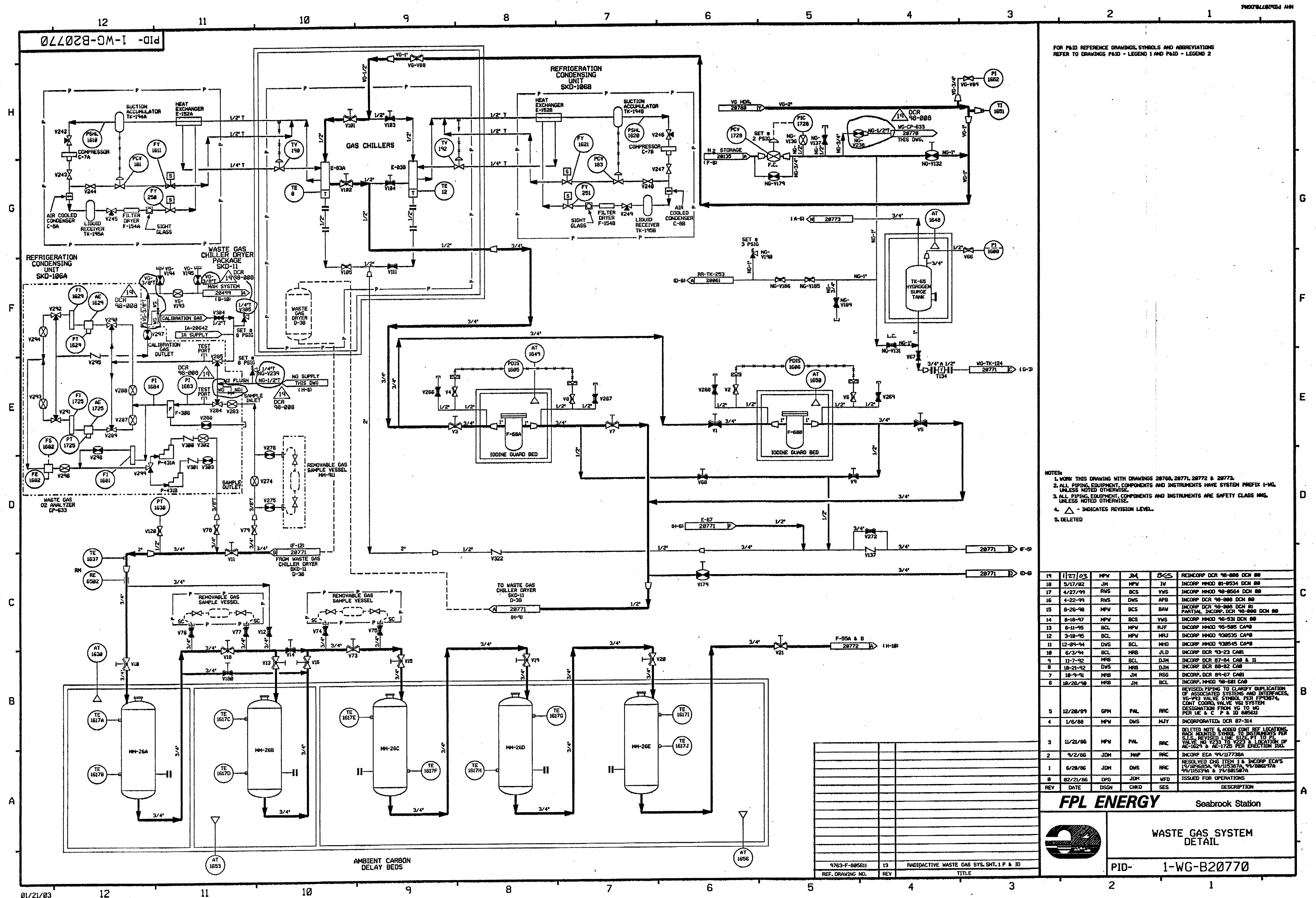
RADIOACTIVE WASTE GAS SYS. SHT. 2 P & ID

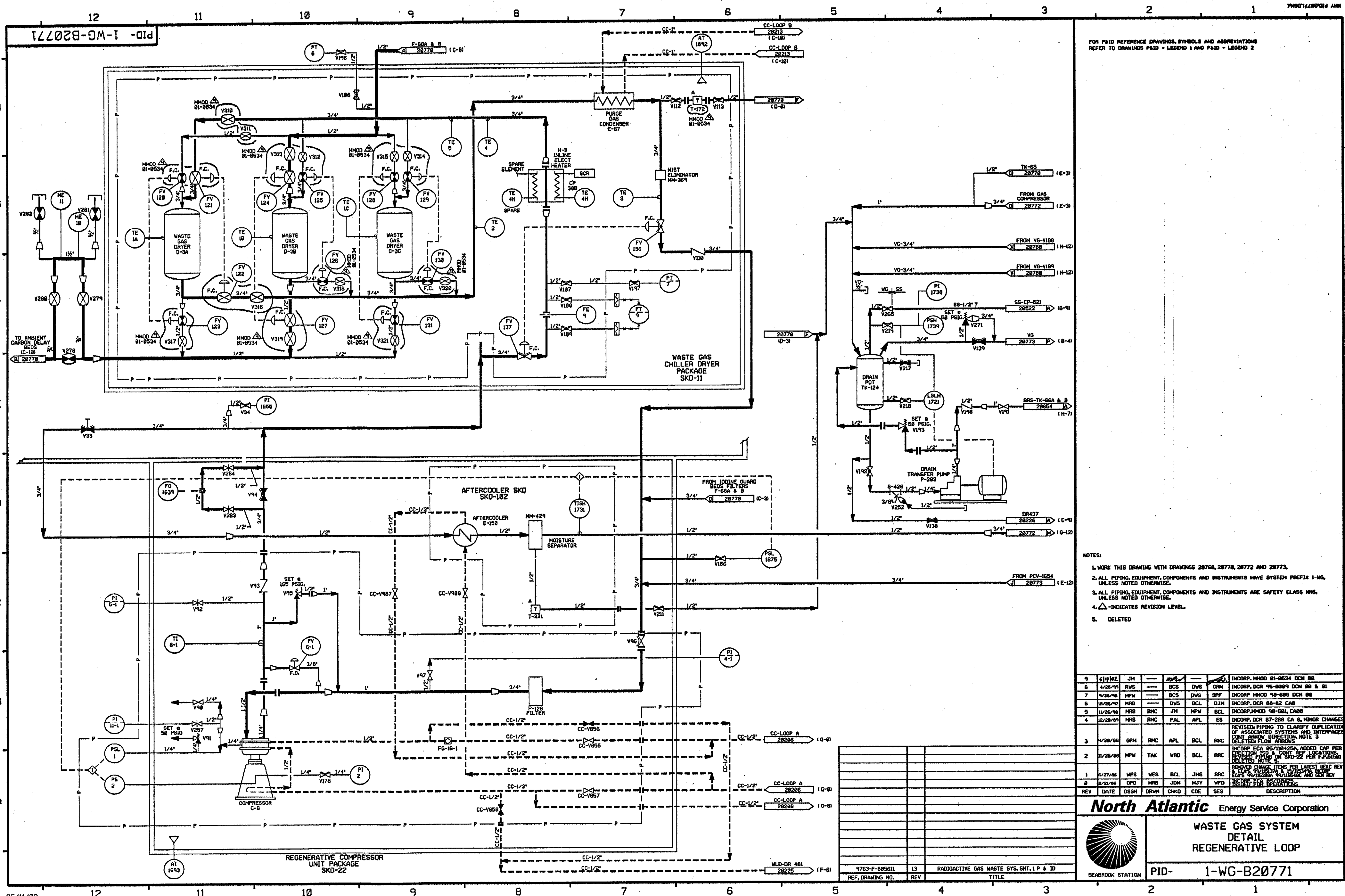
RADIOACTIVE WASTE GAS SYS. SHT. 1 P & ID

TITLE

PID-

1-WG-B20768







FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28768, 28776, 28772 AND 28773.
 2. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-WG, UNLESS NOTED OTHERWISE.
 3. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS UNS, UNLESS NOTED OTHERWISE.
 4. Δ INDICATES REVISION LEVEL.
 5. DELETED

9	6/10/02	JM	—	—	—	—	INCORP. MMD 81-9534 DCM 88
8	4/28/99	RVS	—	BCS	DWS	GRM	INCORP. DCR 95-8889 DCM 88 & 81
7	4/28/99	MPM	—	BCS	DWS	SPF	INCORP. MMD 98-8885 DCM 88
6	8/26/92	MRB	—	DWS	BCL	DJM	INCORP. DCR 88-82 CAB
5	11/25/98	MRB	—	JH	MPW	BCL	INCORP. MMD 98-681 CAB
4	12/28/89	MRB	RMC	PAL	APL	ES	INCORP. DCR 87-288 CA 6, MINOR CHANGES
3	7/28/88	GPM	RMC	APL	BCL	RRC	REVISED PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS AND INTERFACES. CONT. ARROW DIRECTION. NOTE 3 DELETED. FLOW ARROWS.
2	11/28/86	MPW	TAK	MRD	BCL	RRC	INCORP. ECA 85/118425A. ADDED CAP PER ERECTION 150 & CONT. REF. LOCATIONS. REVISED PIPING ON SKD-22 PER F.P. 28768. DELETED NOTE 4.
1	8/27/86	WES	WES	BCL	JMS	RRC	REMOVED CHANGE ITEMS PER LATEST HEAC REV 1. ECA 85/118425A. ADDED CAP PER ERECTION 150 & CONT. REF. LOCATIONS. REVISED PIPING ON SKD-22 PER F.P. 28768. DELETED NOTE 4.
REV	DATE	DSGN	DRWN	CHKD	CODE	SES	DESCRIPTION

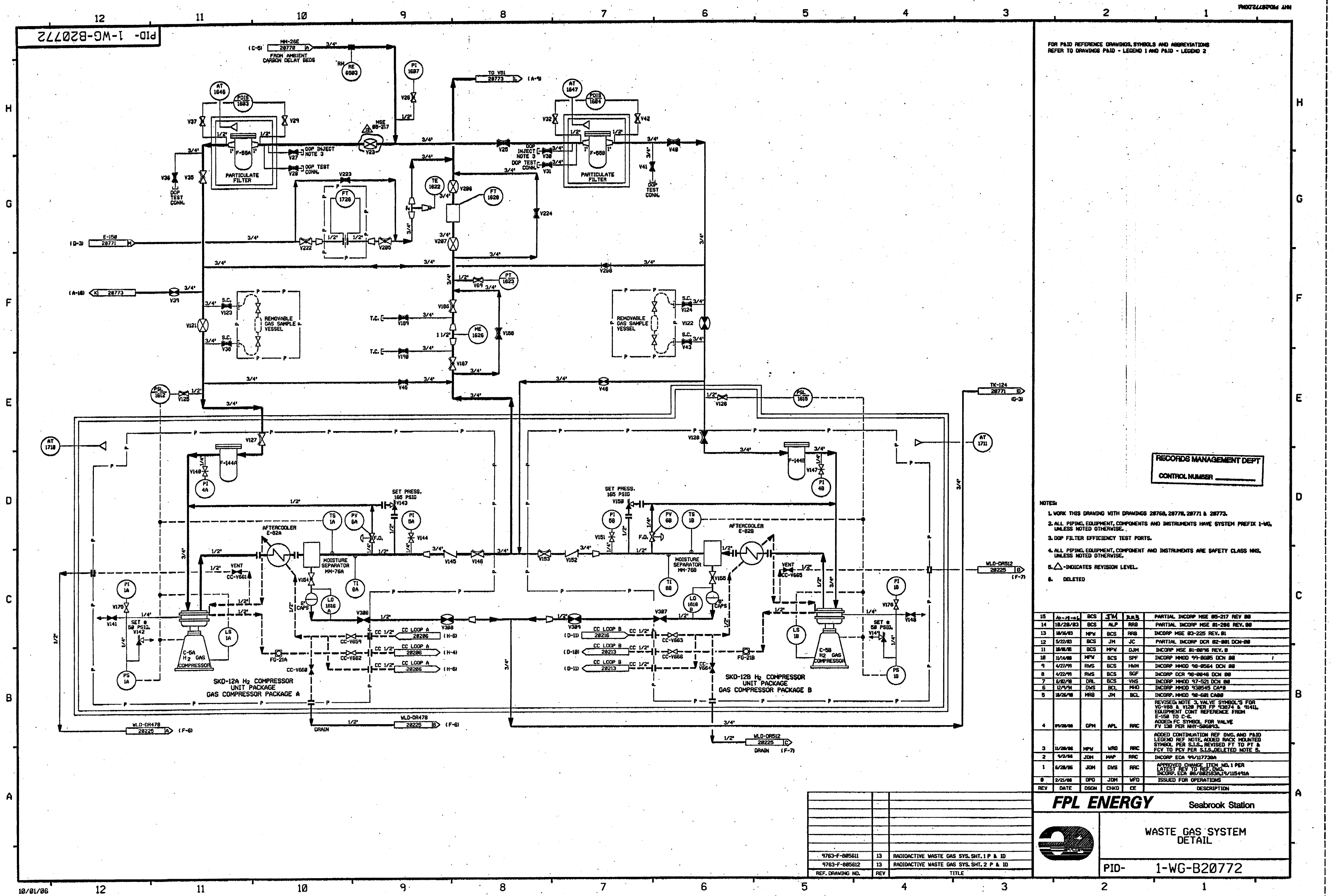
**North Atlantic** Energy Service Corporation

**WASTE GAS SYSTEM
DETAIL
REGENERATIVE LOOP**

SEABROOK STATION

PID- 1-WG-B20771

9763-F-805611	13	RADIOACTIVE GAS WASTE SYS. SHT. 1 P & ID
REF. DRAWING NO.	REV	TITLE



FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

RECORDS MANAGEMENT DEPT
CONTROL NUMBER

- NOTES:
- 1. WORK THIS DRAWING WITH DRAWINGS 28766, 28776, 28771 & 28773.
 - 2. ALL PIPING, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 1-WG, UNLESS NOTED OTHERWISE.
 - 3. DOP FILTER EFFICIENCY TEST PORTS.
 - 4. ALL PIPING, EQUIPMENT, COMPONENT AND INSTRUMENTS ARE SAFETY CLASS MMS, UNLESS NOTED OTHERWISE.
 - 5. Δ INDICATES REVISION LEVEL.
 - 6. Δ DELETED

15	10/28/03	BCS	JTM	RWS	PARTIAL INCORP MSE 05-217 REV. 00
14	10/28/03	BCS	ALP	RRB	PARTIAL INCORP MSE 01-286 REV. 00
13	10/18/01	MPV	BCS	RRB	INCORP MSE 03-225 REV. 01
12	5/22/03	BCS	JM	JC	PARTIAL INCORP DCR 02-001 DCH-00
11	10/18/01	BCS	MPV	DJM	INCORP MSE 01-001 REV. 00
10	10/18/01	MPV	BCS	SFF	INCORP MMOD 99-0005 DCH 00
9	1/21/99	RWS	BCS	HMM	INCORP MMOD 98-0564 DCH 00
8	1/22/99	RWS	BCS	SFF	INCORP DCR 98-0046 DCH 00
7	5/02/98	DRL	BCS	VMS	INCORP MMOD 97-521 DCH 00
6	12/1/94	DWS	BCL	MMD	INCORP MMOD 93-0445 CA#9
5	10/26/96	MRS	JM	BCL	INCORP MMOD 96-001 CABB
REVISED NOTE 3, VALVE SYMBOLS FOR V6-V8 & V120 PER PP 13074 & 9141. EQUIPMENT CONT REFERENCE FROM E-150 TO C-5.					
4	05/28/98	GPM	APL	RRR	ADDED FC SYMBOL FOR VALVE VV 120 PER MWT-5000910.
3	11/28/96	MPV	VRD	RRR	ADDED CONTINUATION REF DWS AND P&ID LEGEND REF NOTE, ADDED RACK MOUNTED SYMBOL PER S.I.S., REVISED FT TO PT & FCV TO PCV PER S.I.S. DELETED NOTE 5.
2	9/2/94	JDM	MMP	RRR	INCORP ECA 95/117730A
1	5/28/96	JDM	DWS	RRR	APPROVED CHANGE ITEM NO. 1 PER LATEST REV TO REF. DWS.
0	2/21/96	OPD	JDM	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

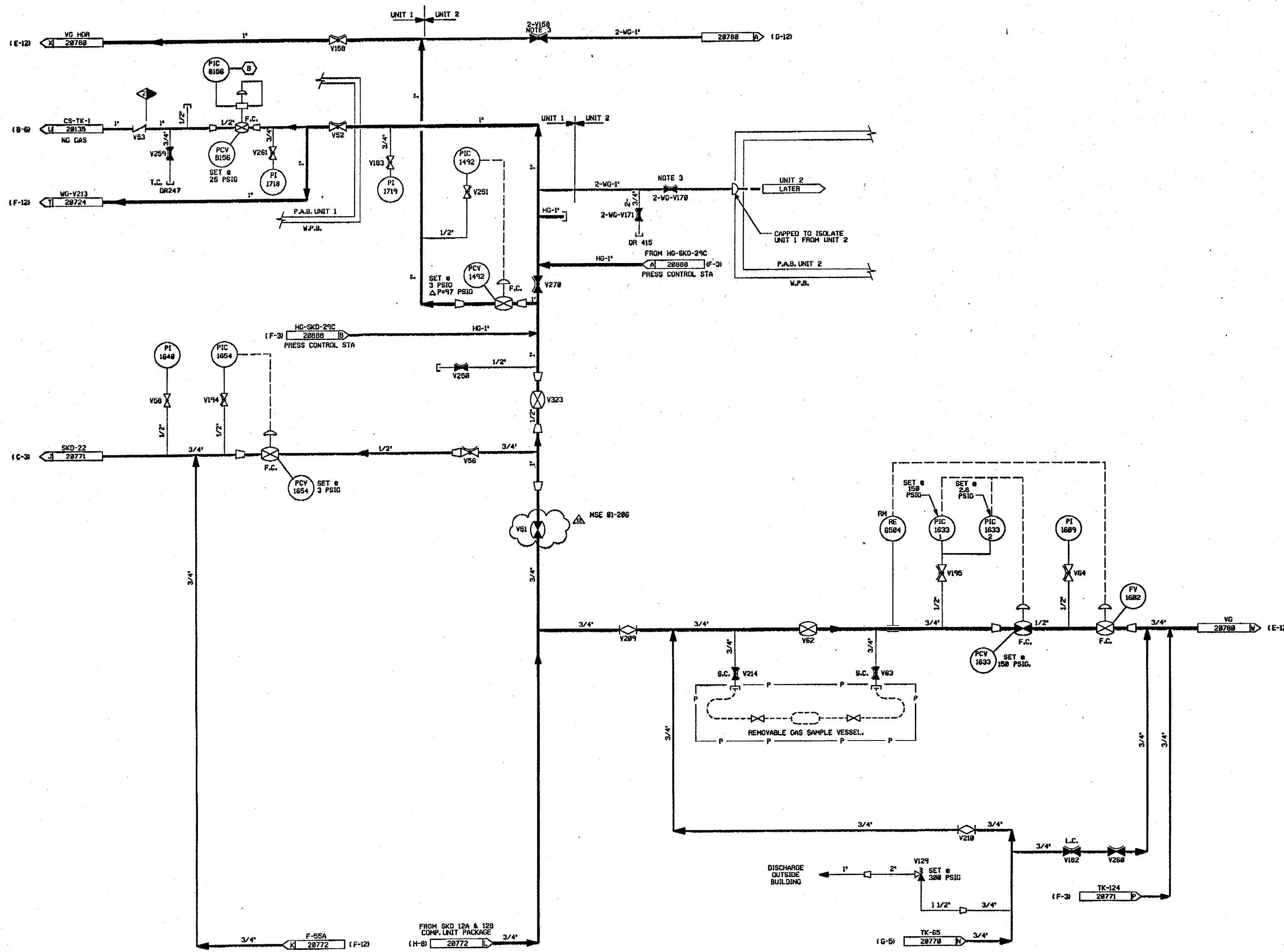
FPL ENERGY
Seabrook Station

**WASTE GAS SYSTEM
DETAIL**

PID-1-WG-B20772

9763-F-005611	13	RADIOACTIVE WASTE GAS SYS. SHT. 1 P & ID
9763-F-005612	13	RADIOACTIVE WASTE GAS SYS. SHT. 2 P & ID
REF. DRAWING NO.	REV	TITLE

PID-1-WG-B20773



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20768, 20770, 20771, & 20772.
 2. ALL PIPING, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX "1-WG" UNLESS NOTED OTHERWISE.
 3. THIS VALVE TO BE LOCKED CLOSED DURING UNIT 2 CONSTRUCTION.
 4. ALL PIPING & INSTRUMENTS ARE SAFETY CLASS UNLESS OTHERWISE NOTED.
 5. Δ INDICATES REVISION LEVEL.
 6. DELETED
 7. INSTRUMENT REFERENCES:
(B) FROM CS-PT-115 ON PAID CS-20725

PORTIONS OF THIS DRAWING ARE
NUCLEAR SAFETY RELATED

REV	DATE	DSGN	CHKD	CE	DESCRIPTION
13	10/15/03	BCS	ML	ML	PARTIAL INCORP MSE 01-286 REV.0
12	5/1/03	BCS	JM	JC	PARTIAL INCORP DCR 02-081, DCR-08
11	5/1/02	JH	MPV	ICV	INCORP MSE 01-0096 REV.0
10	3/18/99	BCL	MPV	MRJ	INCORP M400 930535 CA#0
9	2/7/94	DWS	BCL	MRJ	INCORP M400 930545 CA#0
8	6/2/94	DWS	BCL	IV	INCORP M400 940505 CA#0 & 2
7	10/2/92	DWS	BCL	VF2	INCORP DCR 090001 CA#0
6	10/3/91	GPM	JH	RSG	INCORP DCR 09-57 CA#0
5	10/28/90	MRB	JH	BCL	INCORP M400 90-601 CA#0
4	12/28/89	MRB	PAL	ES	INCORPORATED DCR 07-268 CA#0 REVISED NOTE 4, V210 VALVE SYMBOL FROM NORMALLY CLOSED TO OPEN, CONT DND NO & COORD ADDED F.C. PER PP 51975 & 55688 FOR VALVE PCV-8556, LOOP & LOGIC NNT-58689 FOR VALVE PCV-143L
3	1/28/88	GPM	APL	RRC	ADDED CONTINUATION FLAG CORDS, REMOVED CAP PER ECA 19/101646, REMOVED DUPLICATED INSTR. SHOWN ON HG SYS DELETED NOTE 6, IDENTIFIED DRAIN PER RELEVANT NOTE
2	11/28/86	MRJ	VRD	RRC	REMOVED CHANGE ITEMS PER ECA 19/103330 & LATEST USAC REV. INCORP ECA 19/107012A & 19/101644
1	6/17/86	MES	DWS	RRC	ISSUED FOR OPERATIONS
0	2/21/86	DPO	JDM	WFD	

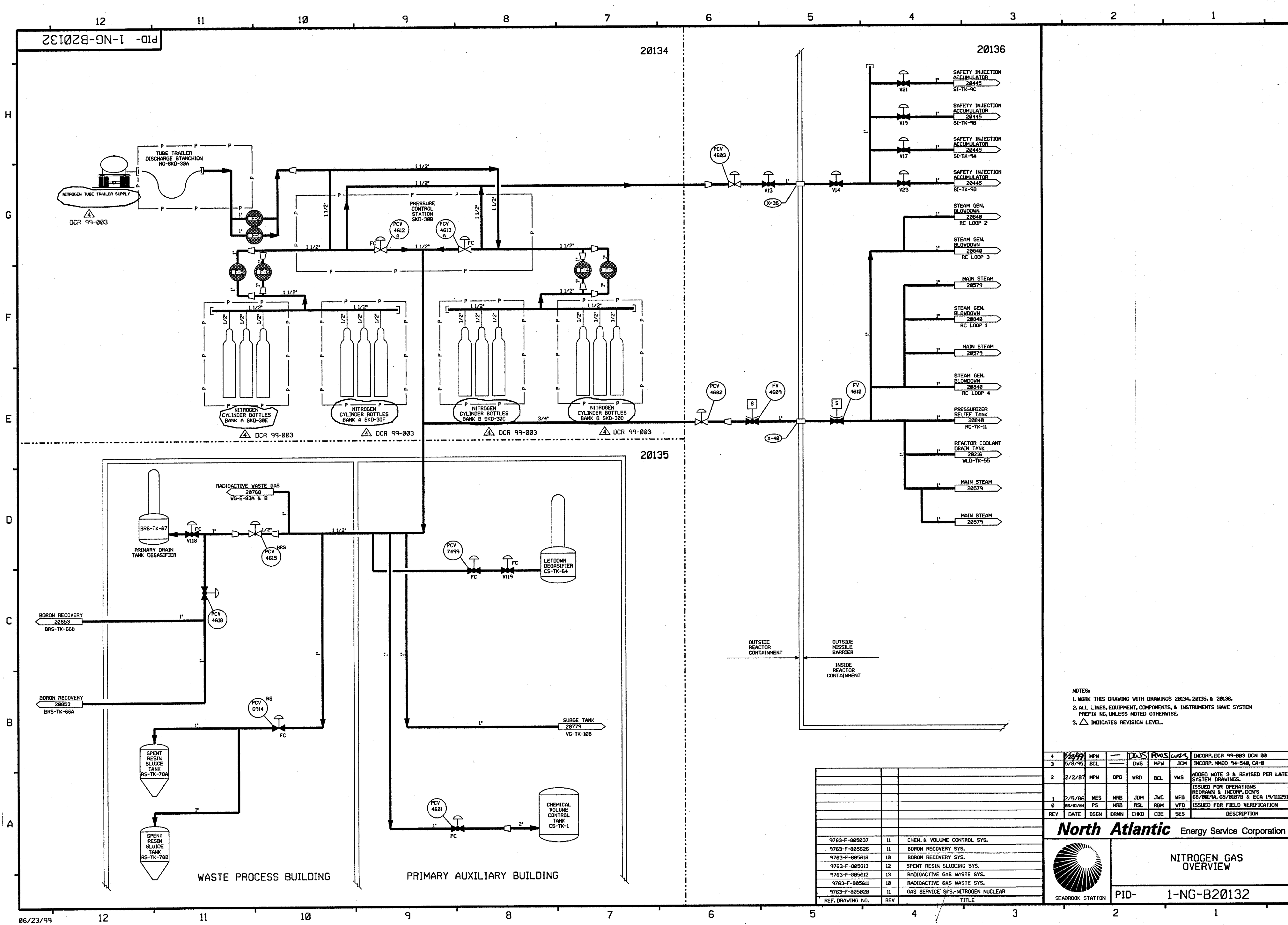
FPL ENERGY Seabrook Station



WASTE GAS SYSTEM
DETAIL

PID- 1-WG-B20773

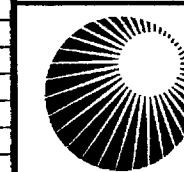
REF. DRAWING NO.	REV	TITLE
9763-F-005612	13	RADIOACTIVE GAS WASTE SYS. SHT. 2 P. & ID



NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 20134, 20135, & 20136.
2. ALL LINES, EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX NG, UNLESS NOTED OTHERWISE.
3. Δ INDICATES REVISION LEVEL.

4	1/2/99	MPW	—	DCS	RMS	WST	INCORP. DCR 99-003 DCM 00
3	5/8/95	BCL	—	DWS	MPW	JCH	INCORP. MMOD 94-540, CA-0
2	2/2/87	MPW	OPD	WRO	BCL	VMS	ADDED NOTE 3 & REVISED PER LATEST SYSTEM DRAWINGS
1	2/5/86	WES	MRB	JCH	JWC	WFD	ISSUED FOR OPERATIONS REDRAWN & INCORP. DCM'S 68/001/9A, 65/0187B & ECA 19/111251B
0	06/01/84	PS	MRB	RSL	RBM	WFD	ISSUED FOR FIELD VERIFICATION
REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION

North Atlantic Energy Service Corporation



NITROGEN GAS OVERVIEW

PID- 1-NG-B20132

REF. DRAWING NO.	REV	TITLE
9763-F-005037	11	CHEM. & VOLUME CONTROL SYS.
9763-F-005026	11	BORON RECOVERY SYS.
9763-F-005018	10	BORON RECOVERY SYS.
9763-F-005013	12	SPENT RESIN SLUICING SYS.
9763-F-005012	13	RADIOACTIVE GAS WASTE SYS.
9763-F-005011	10	RADIOACTIVE GAS WASTE SYS.
9763-F-005022	11	GAS SERVICE SYS.-NITROGEN NUCLEAR

NOTES

1. WORK THIS DRAWING WITH DRAWINGS 20132, 20134, & 20136
2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX NO, UNLESS NOTED OTHERWISE.
3. VALVE TO BE INSTALLED WITH DEGASIFIER LIQUID UNDER THE VALVE SEAT
4. ALL LINES, EQUIPMENT, COMPONENT AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
5. Δ INDICATES REVISION LEVEL
6. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFFS.

13	12/2/91	BCS	JM	RRB	INCOMP CR 84-09481 REV. 8
12	12/23/99	BCS	DWS	JCM	INCOMP MM00 96-531 DCN#93
11	1/28/1999	DWS	BCS	JCM	INCOMP MM00 980558 DCN#88
10	6/12/97	MPW	DWS	RRC	INCOMP MM00 96-531 DCN#86, ADDED OPERATOR TO NEGATIVE FOR REV. 97864
9	6/3/94	BCI	DWS	JLD	INCOMP DCR 93-233 CA# 0.1 & DCR 88-152 CA# 0
8	11/12/92	MRB	BCI	DJM	INCOMP DCR 88-179 CA# 0
7	4/22/92	MRB	BCI	JEV	INCOMP MM00 91-515 CA# 0
6	8/21/91	MRB	FCB	PEB	INCOMP. DCR 90-7 CA#3
5	5/28/89	MRB	PAL	IV	INCORPORATED DCR 87-110 CA II REVISED NOTE 4
4	8/6/87	GPM	MPW	RRC	ADDED SYSTEM BREAKS ADDED NOTE 5, CONT COORD AND DELETED REF
3	10/17/87	MPW	MAP	RRC	ADDED VALVES RS-V8802-0803, NOTE 5, CAPPED CONN PER PRECTION 150 AND CONT REF DWG. 16-100, DWGS.
2	6/23/86	MES	VNK	RRC	UPDATE PER LATEST P&ID
1	2/5/86	MES	JDM	WFD	ISSUED FOR OPERATIONS GENERAL REVISIONS TO INCOMP ECA 19/2734 & DOWNS/00194
0	06/04/94	PJC	RSL	WFD	ISSUED FOR FIELD VERIFICATION
REV DATE	DESCRIPTION	DESIGN	CHKD	CE	

Seabrook Station

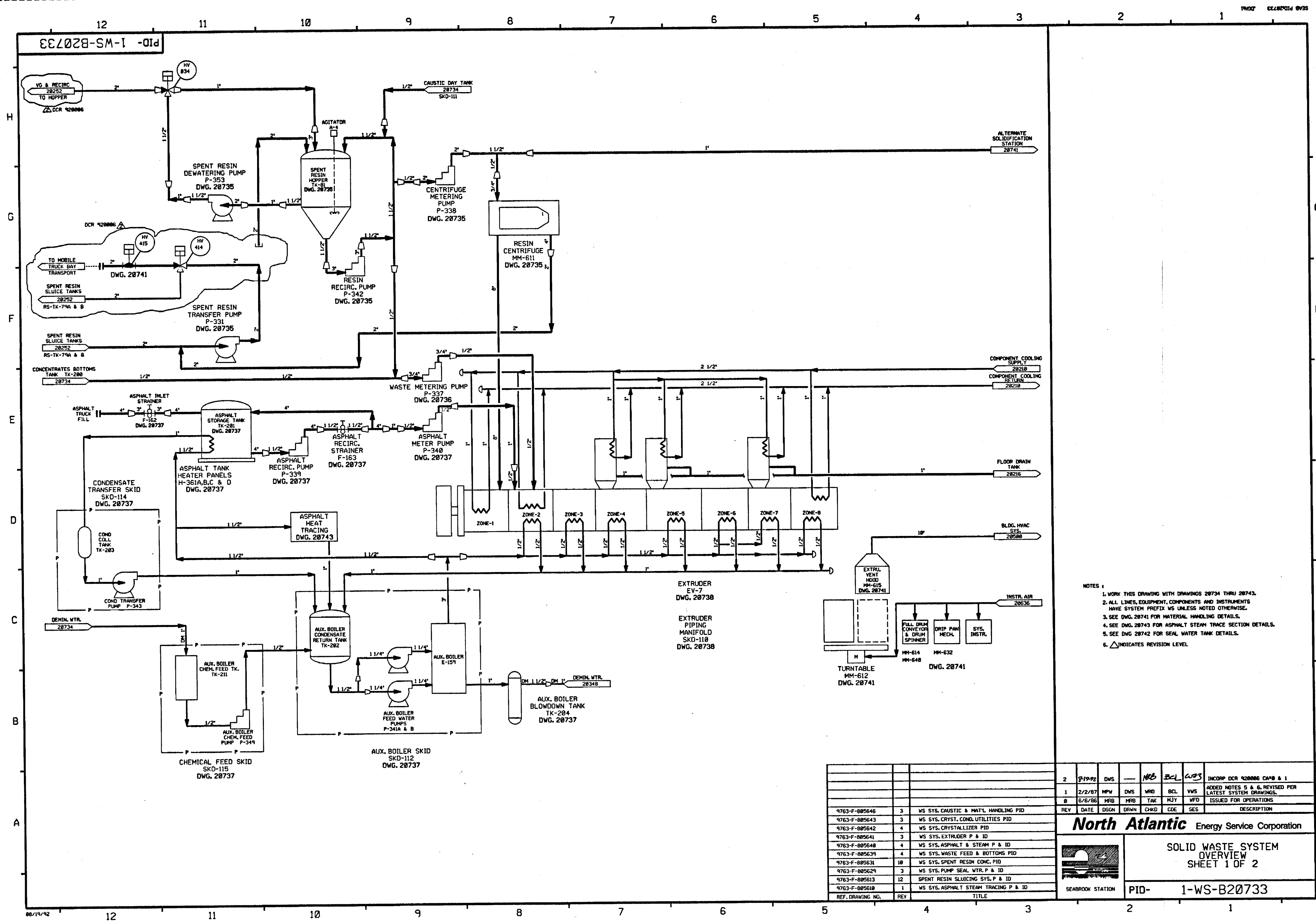
NITROGEN GAS
DETAIL

PID- 1-NG-B20135

9763-F-805626	II	BORON RECOVERY SYS
9763-F-805618	10	BORON RECOVERY SYS
9763-F-805628	11	GAS SERVICE SYS NITROGEN NUCLEAR
9763-F-805613	12	SPENT RESIN SLICING SYS
9763-F-805937	11	CHEM & VOLUME CONTROL SYS.
RFE 0944INC.ND	REV	TITLE

PRIMARY AUXILIARY BUILDING

WASTE PROCESSING BUILDING



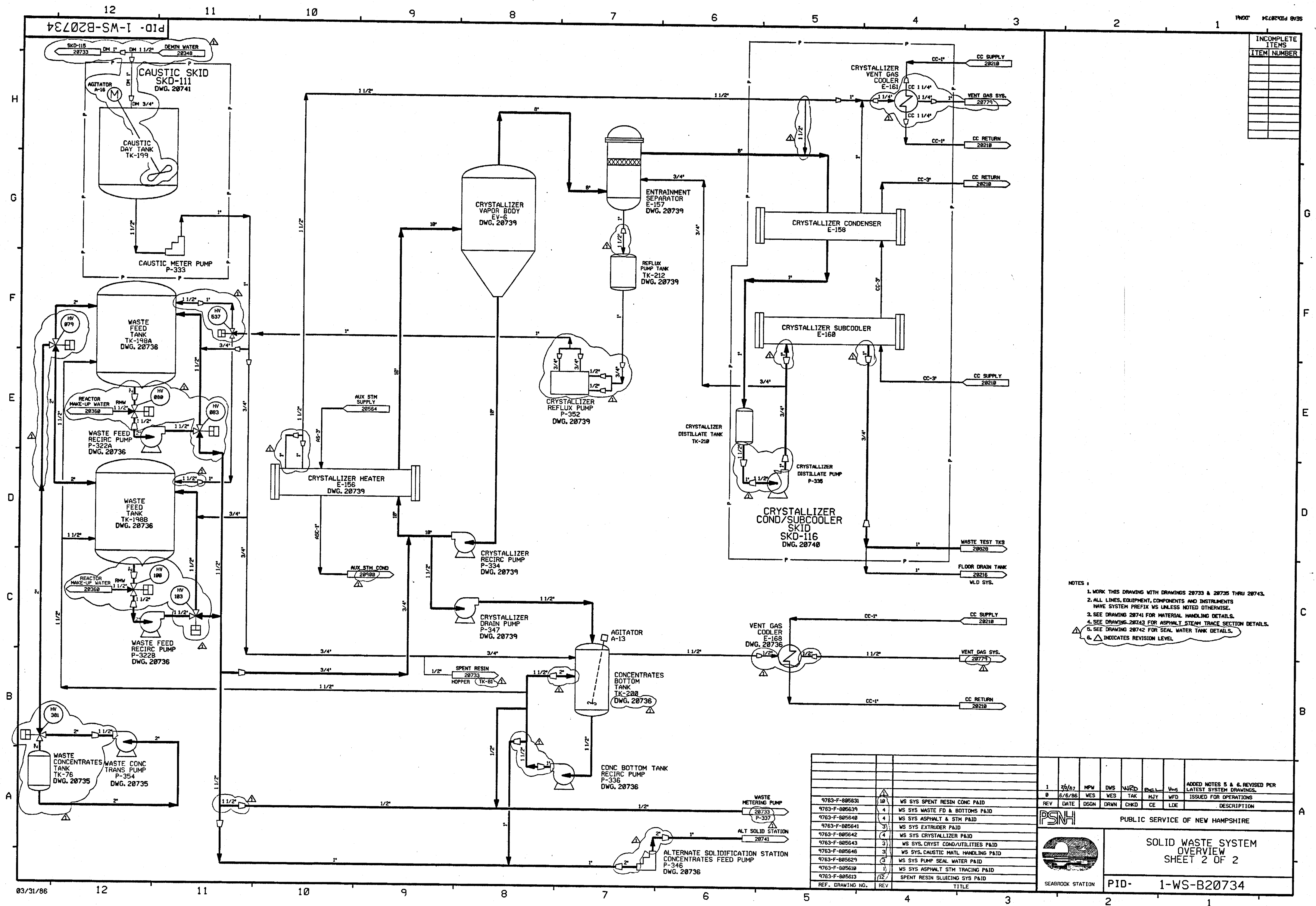
- NOTES:
- 1. WORK THIS DRAWING WITH DRAWINGS 28734 THRU 28743.
 - 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.
 - 3. SEE DWG. 28741 FOR MATERIAL HANDLING DETAILS.
 - 4. SEE DWG. 28743 FOR ASPHALT STEAM TRACE SECTION DETAILS.
 - 5. SEE DWG. 28742 FOR SEAL WATER TANK DETAILS.
 - 6. Δ INDICATES REVISION LEVEL.

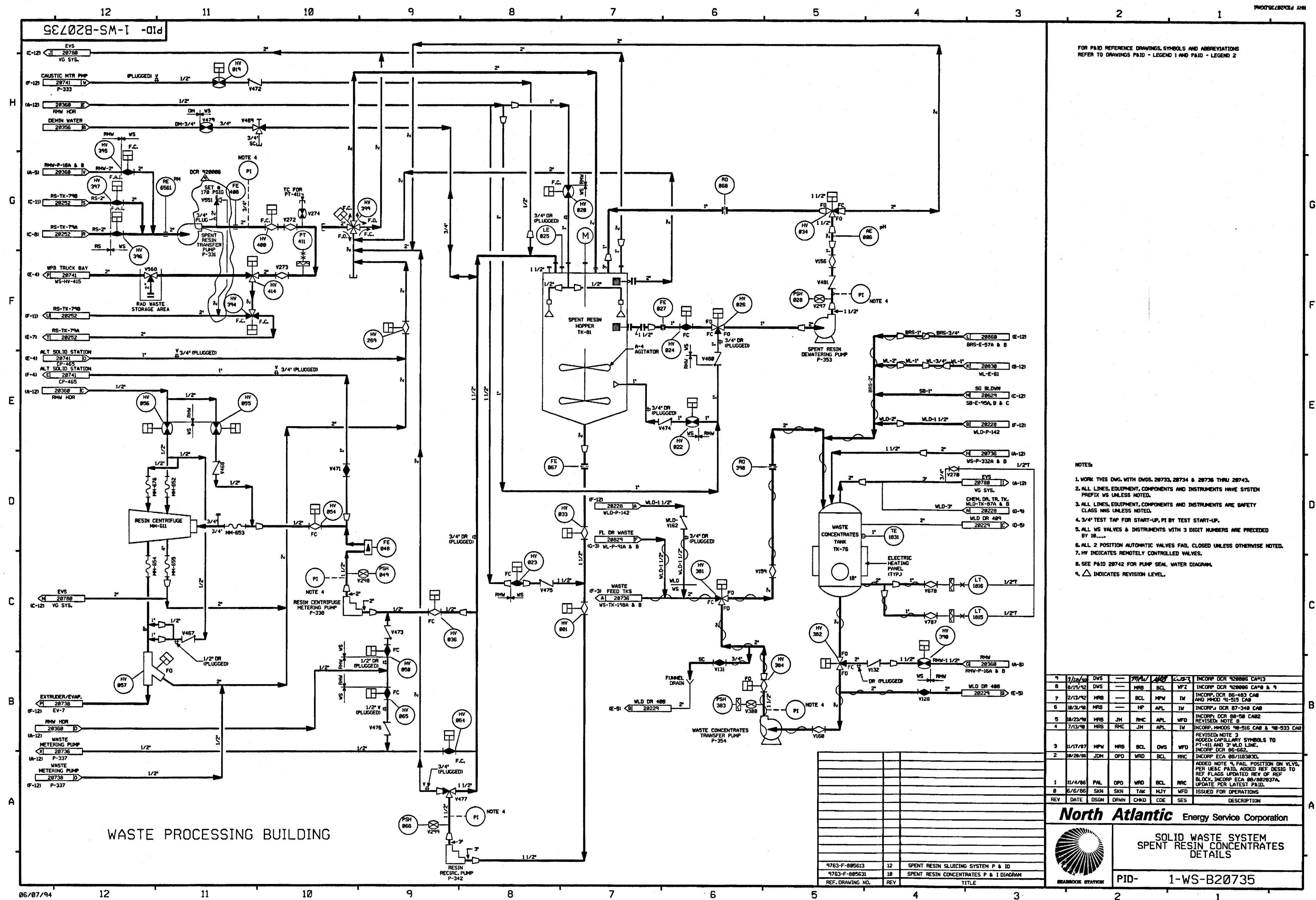
		2	2/19/92	DWS	—	MRB	BCL	WJS	INCOMP. DCR 920006 CA#8 & 1
		1	2/2/87	WPM	DWS	WRD	BCL	VMS	ADDED NOTES 5 & 6, REVISED PER LATEST SYSTEM DRAWINGS.
		0	6/6/86	MRS	MRB	TAK	KJY	WFD	ISSUED FOR OPERATIONS
		REV	DATE	DSGN	DRWN	CHKD	CDE	SES	DESCRIPTION
9763-F-805646	3	WS SYS. CAUSTIC & MAT'L HANDLING PID							
9763-F-805643	3	WS SYS. CRYST. COND. UTILITIES PID							
9763-F-805642	4	WS SYS. CRYSTALLIZER PID							
9763-F-805641	3	WS SYS. EXTRUDER P & ID							
9763-F-805640	4	WS SYS. ASPHALT & STEAM P & ID							
9763-F-805639	4	WS SYS. WASTE FEED & BOTTOMS PID							
9763-F-805631	10	WS SYS. SPENT RESIN CONC. PID							
9763-F-805629	3	WS SYS. PUMP SEAL WTR. P & ID							
9763-F-805613	12	SPENT RESIN SLUICING SYS. P & ID							
9763-F-805610	1	WS SYS. ASPHALT STEAM TRACING P & ID							
REF. DRAWING NO.	REV	TITLE							

North Atlantic Energy Service Corporation

SOLID WASTE SYSTEM
OVERVIEW
SHEET 1 OF 2

PID- 1-WS-B20733





FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

NOTES:

1. WORK THIS DWG. WITH DWGS. 28733, 28734 & 28736 THRU 28743.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS HNS UNLESS NOTED.
4. 3/4" TEST TAP FOR START-UP, PI BY TEST START-UP.
5. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10____.
6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS OTHERWISE NOTED.
7. HW INDICATES REMOTELY CONTROLLED VALVES.
8. SEE P&ID 28742 FOR PUMP SEAL WATER DIAGRAM.
9. Δ INDICATES REVISION LEVEL.

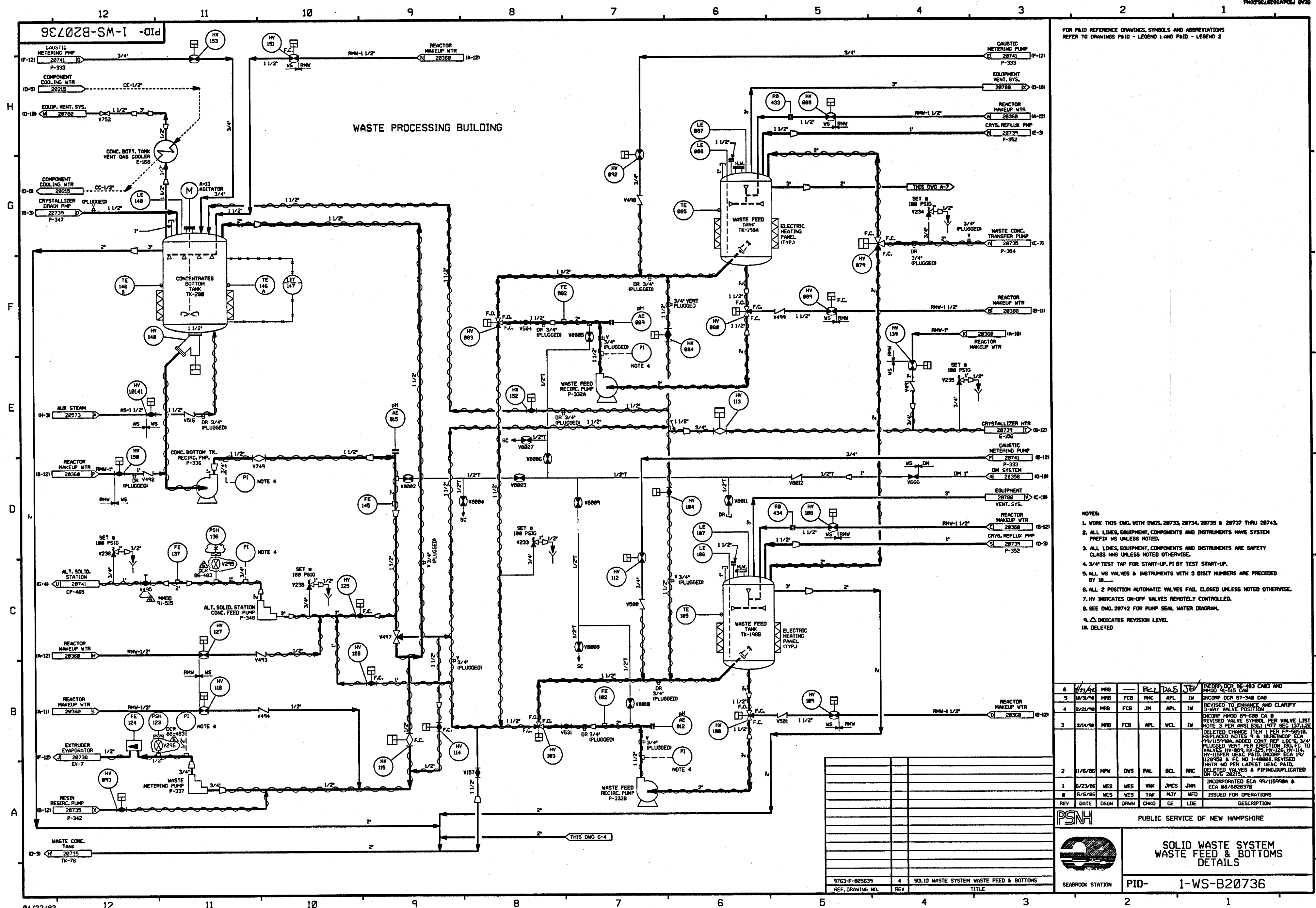
9	2/28/98	DWS	---	MAU	MAU	CU-23	INCOMP DCR 920886 CA#13
8	8/19/92	DWS	---	MRB	BCL	WFZ	INCOMP DCR 920886 CA#8 & 9
7	2/13/92	MRB	---	BCL	MPM	IV	INCOMP DCR 86-483 CA# AND MM02 91-515 CA#
6	10/31/98	MRB	---	HP	APL	IV	INCOMP DCR 87-348 CA#
5	10/23/98	MRB	JM	RMC	APL	WFO	INCOMP DCR 88-58 CA#2 REVISED NOTE 8
4	7/13/98	MRB	RMC	JM	APL	IV	INCOMP MM005 88-516 CA# AND 88-933 CA#
REVISED NOTE 3							
ADDED CAPILLARY SYMBOLS TO							
PT-411 AND 3' MLD LINE.							
INCOMP DCR 86-58							
3	11/17/87	MPM	MRB	BCL	WFO		INCOMP ECA 88/118383D.
2	08/28/86	JDM	OPD	WRD	BCL	NRG	
ADDED NOTE 9, FAIL POSITION ON VLYS.							
PER U&C PAID, ADD REF DESIG TO							
REF FLAG UPDATED REV OF REF							
BLOCK, INCOMP ECA 88/882937A.							
UPDATE PER LATEST PAID.							
1	11/4/86	PAL	OPD	WRD	BCL	NRG	
8	6/5/86	SKN	SKN	TAK	NJY	WFO	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CDE	SFS	DESCRIPTION

North Atlantic Energy Service Corporation




SOLID WASTE SYSTEM
SPENT RESIN CONCENTRATES
DETAILS

PID- 1-WS-B20735




FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

NOTES:

1. WORK THIS DWG. WITH DWGS. 28733, 28734, 28735 & 28737 THRU 28743.
2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED.
3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS UNLESS NOTED OTHERWISE.
4. 3/4" TEST TAP FOR START-UP, P1 BY TEST START-UP.
5. ALL MS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 100-.
6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
7. HV INDICATES ON-OFF VALVES REMOTELY CONTROLLED.
8. SEE DWG. 28742 FOR PUMP SEAL WATER DIAGRAM.
9.  INDICATES REVISION LEVEL.
10. (DELETED)

6	1/23/76	MRB	---	EC	D&S	JB	INCORP DCR 86-483 CABS AND MISC 10-515 CMB
5	1/13/76	MRB	FCB	RMC	APL	IN	INCORP DCR 87-348 CMB
4	2/21/76	MRB	FCB	JM	APL	IN	REVISED TO ENHANCE AND CLARIFY 2-WAY VALVE POSITION
3	3/14/76	MRB	FCB	APL	WCL	IN	INCORP MHOD 89-606 CA 8 REMOVED VALVE SYMBOL PER VALVE LIST NOTE 3 PER ANSI BOLL 1977 SEC 13.1.2.2 DELETED CHANGE ITEM 1 PER FP-56518 REPLACED NOTES 8 & 10REMOVED ECA 99/15998A ADDED CONT REF LDCS 344 PLUGGED W/PER PER ERECTION ISO FC TO VALVES HY-889 10-2125 HY-11A HY-10PER LEAG PAID INCORP ECA 15/ 120908 A FC 10 1-4880A PERIVED NSTR NO PER LATEST LEAG PAID DELETED VALVES & PIPING DUPLICATED ON LDC
2	1/16/86	MPW	DNS	PAL	BCL	RRC	INCORPORATED ECA 99/15998A & ECA 88/882378
1	6/23/86	WES	WES	VNK	JMCS	JNH	ISSUED FOR OPERATIONS
8	6/6/86	WES	WES	TAK	MJT	WFD	DESCRIPTION
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	

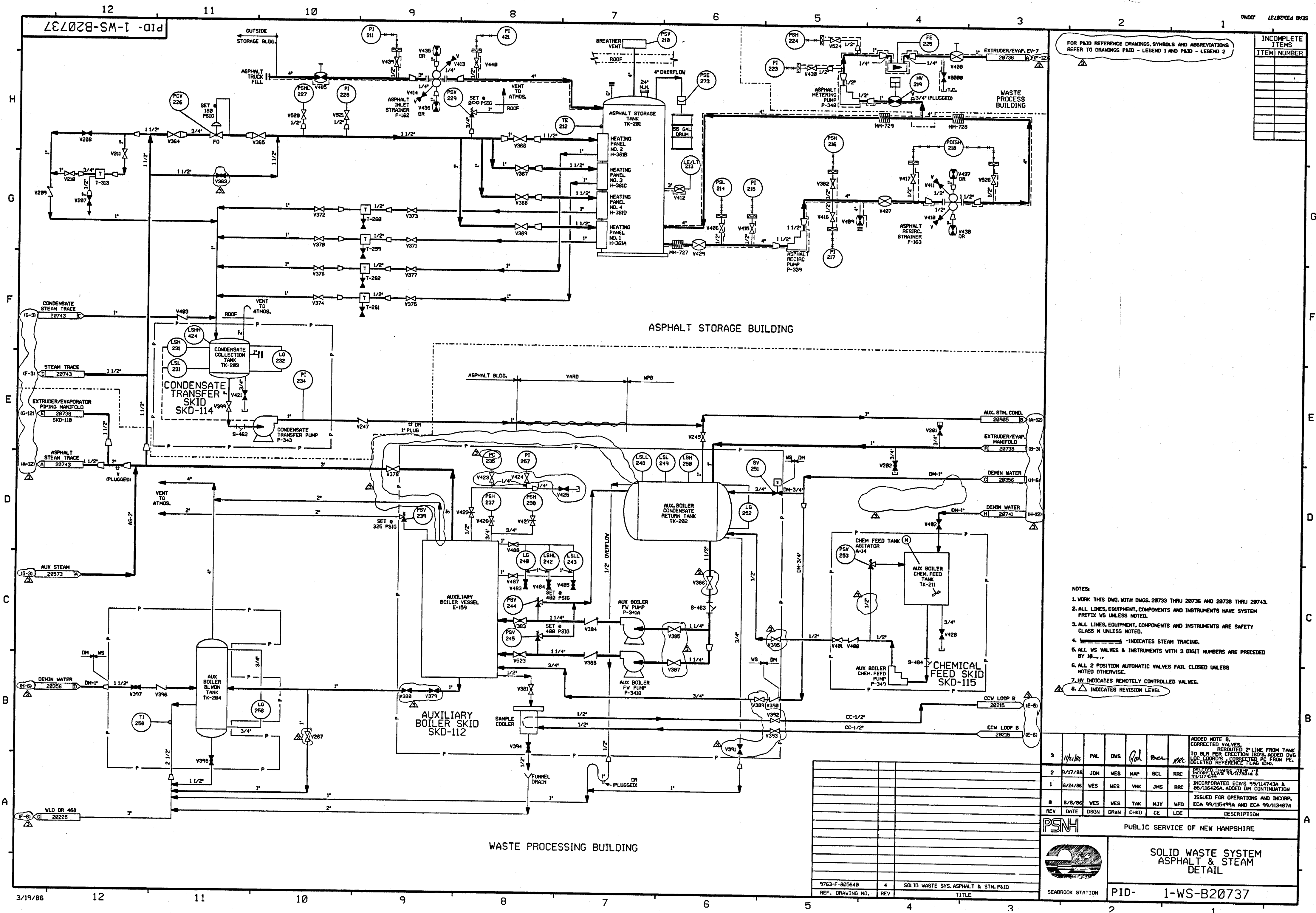


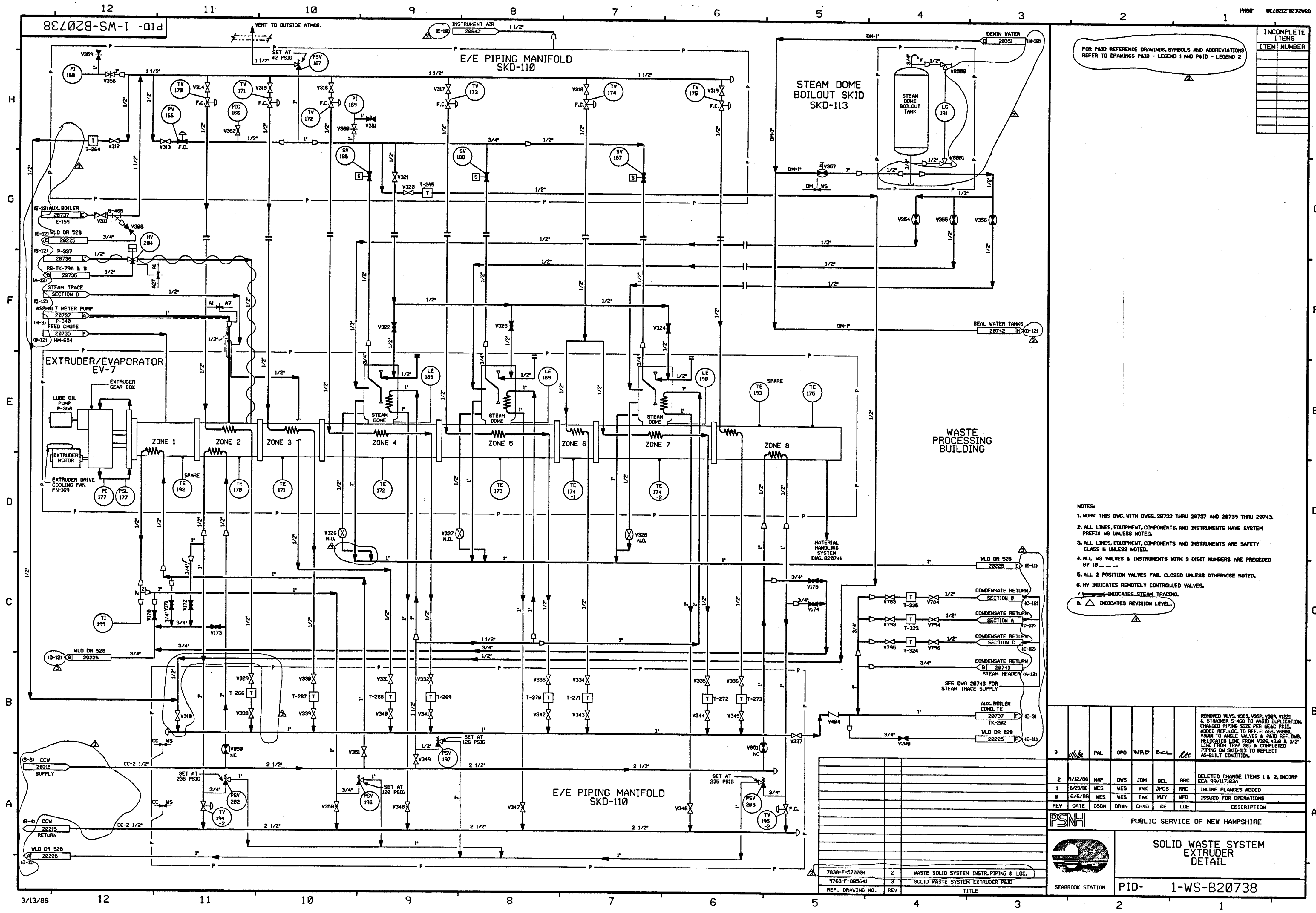
SEABROOK STATION

SOLID WASTE SYSTEM
WASTE FEED & BOTTOMS
DETAILS

PID-

1-WS-B20736



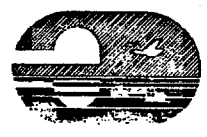


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

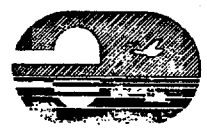
INCOMPLETE ITEMS	
ITEM	NUMBER

- NOTES:
1. WORK THIS DWG. WITH DWGS. 28733 THRU 28737 AND 28739 THRU 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.
 4. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10 - - -
 5. ALL 2 POSITION VALVES FAIL CLOSED UNLESS OTHERWISE NOTED.
 6. HV INDICATES REMOTELY CONTROLLED VALVES.
 7. - - - - - INDICATES STEAM TRACING.
 8. Δ INDICATES REVISION LEVEL.

3	11/16/86	PAL	OPD	WLD	BCL	MC	REMOVED VLS. V353, V352, V305, V1221 & STRAINER S-468 TO AVOID DUPLICATION. CHANGED PIPING SIZE PER LEAC P&ID. ADDED REF. LOC. TO REF. FLGS. V8000. V8000 TO ANGLE VALVES & P&ID REF. Dwg. RELOCATED LINE FROM V326, V308 & 1/2" PIPING ON SKD-113 TO REFLECT AS-BUILT CONDITION.
2	9/12/86	HAP	DWS	JDM	BCL	RRC	DELETED CHANGE ITEMS 1 & 2, INCORP ECA 95/117183A
1	6/23/86	WES	WES	VWK	JWCS	RRC	IN-LINE FLANGES ADDED
0	6/6/86	WES	WES	TAK	HJY	WFD	ISSUED FOR OPERATIONS
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION



PUBLIC SERVICE OF NEW HAMPSHIRE

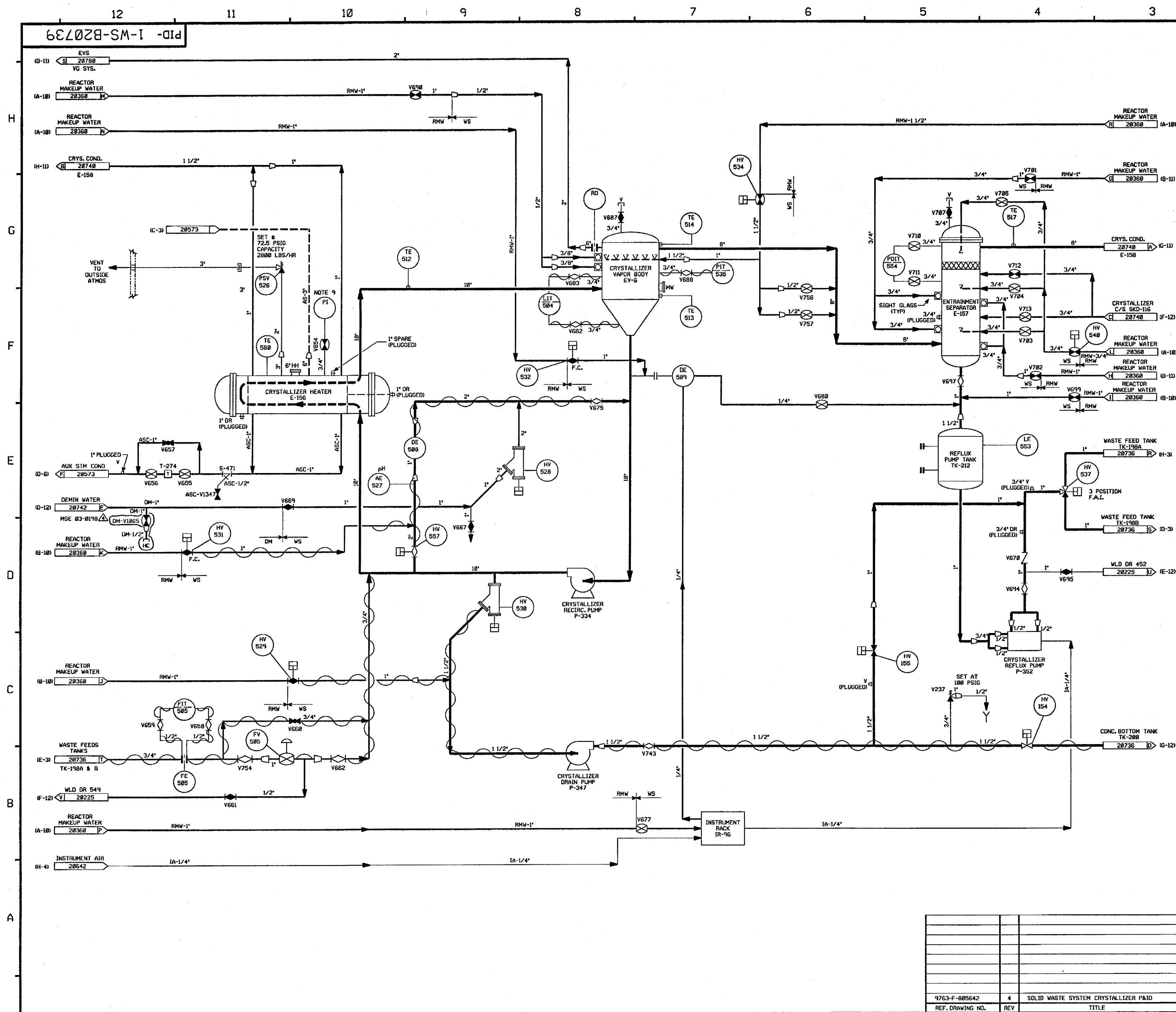


SEABROOK STATION

SOLID WASTE SYSTEM
EXTRUDER
DETAIL

PID- 1-WS-B20738

7838-F-578884	2	WASTE SOLID SYSTEM INSTR. PIPING & LOC.
5763-F-885641	3	SOLID WASTE SYSTEM EXTRUDER P&ID
REF. DRAWING NO.	REV	TITLE



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

- NOTES:
1. WORK THIS DWG. WITH DWGS. 20733 THRU 20738 & 20740 THRU 20743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.
 4. INSTRUMENT VALVES V602 THRU V607 & V620 THRU V627 ARE LOCATED ON INSTRUMENT RACK IR-96.
 5. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10....
 6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
 7. HV INDICATES REMOTELY CONTROLLED VALVES.
 8. SEE DWG. 20742 FOR PUMP SEAL WATER DIAGRAM.
 9. 3/4" TEST TAP FOR START-UP, PI BY TEST START-UP.
 10. Δ INDICATES REVISION LEVEL.

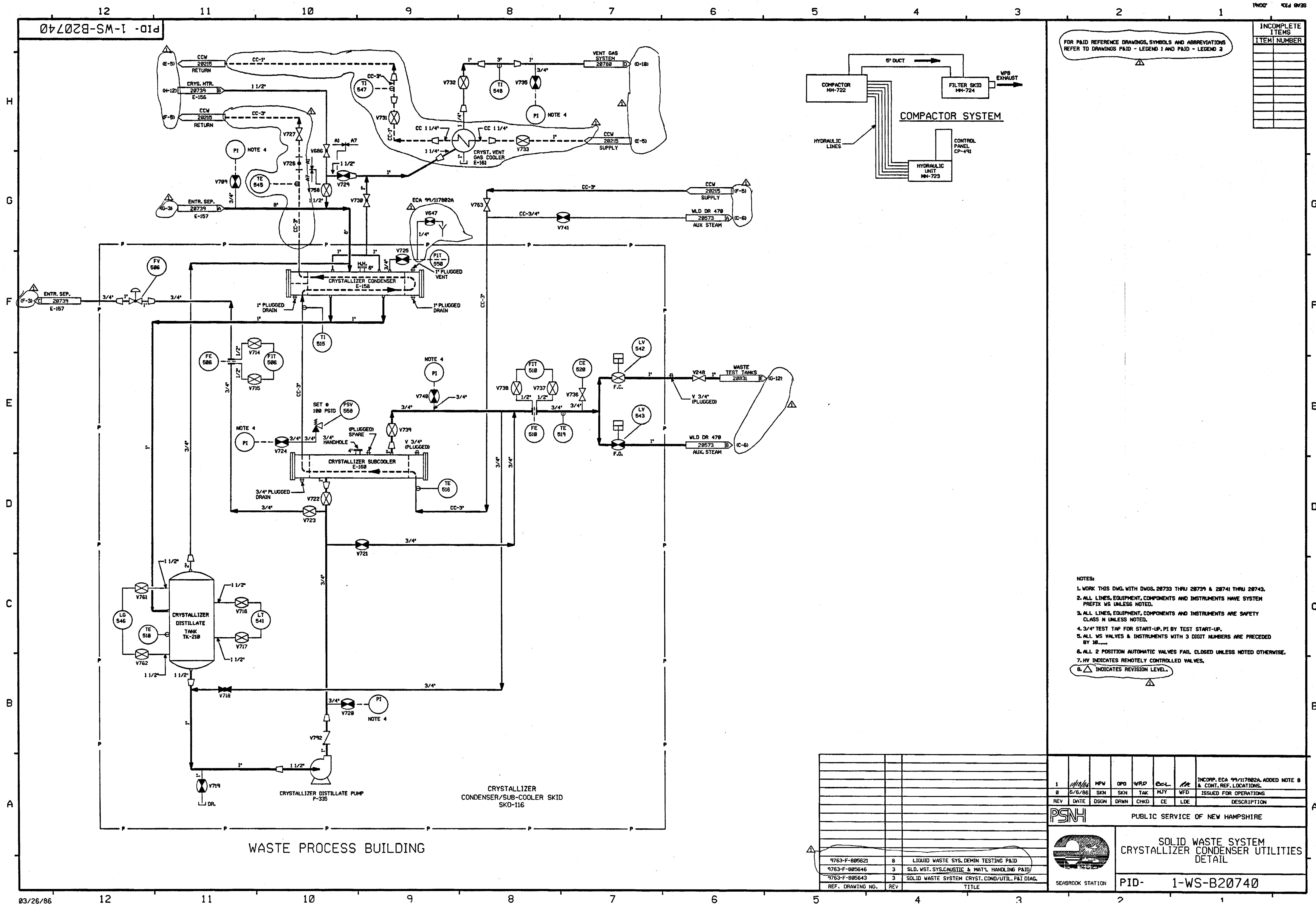
4	9/16/03	JM	BES	JAM	INCRP MSE 03-0190 REV 00
3	11/4/86	MPW	PAL	RRC	ADDED CONT. REF. LOCATIONS NOTE 10. FINE SIZE 10-10-528 TEST TAP VALVES 10-10-528 & 10-10-529 TEST TAP VALVES AND VALVES DUPLICATED ON DWG. 20733.
2	9/2/86	JDM	MAP	RRC	INCRP ECA 94/117804A
1	8/24/86	WES	PAL	RRC	ADDED REDUCERS.
0	8/6/86	WES	TAK	WFD	ISSUED FOR OPERATIONS AND INCRP ECA 95/113730A
REV	DATE	DSGN	CHKD	CE	DESCRIPTION

FPL ENERGY
Seabrook Station

**SOLID WASTE SYSTEM
CRYSTALLIZER
DETAIL**

PID- 1-WS-B20739

9763-F-805642	4	SOLID WASTE SYSTEM CRYSTALLIZER P&ID
REF. DRAWING NO.	REV	TITLE



FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2

INCOMPLETE ITEMS	
ITEM	NUMBER

- NOTES:
1. WORK THIS DWG. WITH DWGS. 28733 THRU 28739 & 28741 THRU 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS N UNLESS NOTED.
 4. 3/4" TEST TAP FOR START-UP, PI BY TEST START-UP.
 5. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 10....
 6. ALL 2 POSITION AUTOMATIC VALVES FAIL CLOSED UNLESS NOTED OTHERWISE.
 7. HV INDICATES REMOTELY CONTROLLED VALVES.
 8. INDICATES REVISION LEVEL.


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CAUSTIC BULK STORAGE AND METERING SYSTEM

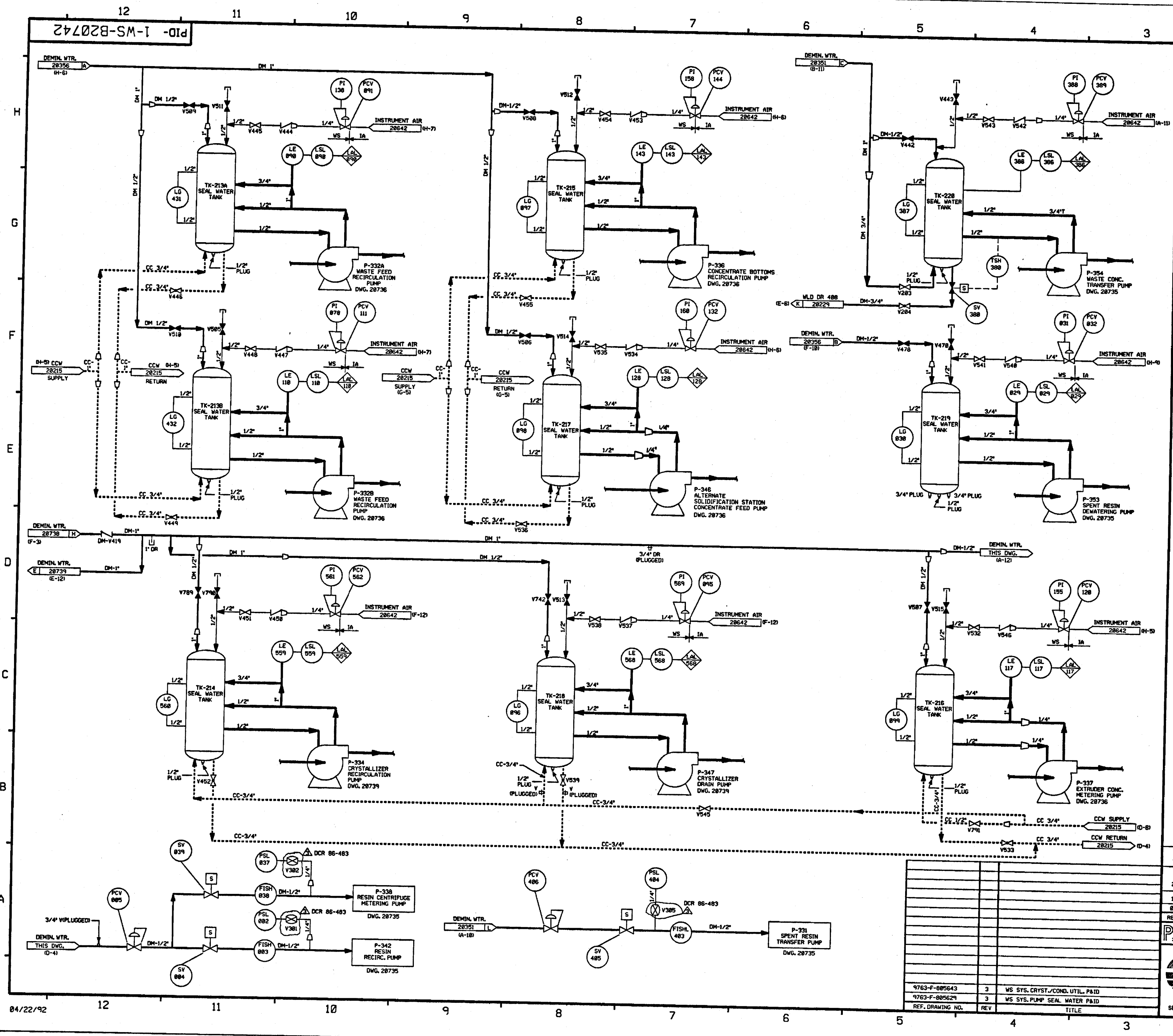
CCTV CAMERA LOCATION

ALTERNATE SOLIDIFICATION STATION

MATERIAL HANDLING SYSTEM

North Atlantic Energy Service Corporation	
 SEABROOK STATION	SOLID WASTE SYSTEM CAUSTIC & MATERIAL HANDLING DETAIL
	PID- 1-WS-B20741





FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
1. WORK THIS DRAWING WITH DRAWINGS 28733 THRU 28741 & 28743.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX WS, UNLESS NOTED OTHERWISE.
 3. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS WNS, UNLESS NOTED OTHERWISE.
 4. ALL WS VALVES & INSTRUMENTS WITH 3 DIGIT NUMBERS ARE PRECEDED BY 18.
 5. Δ INDICATES REVISION LEVEL.

3	12/92	MRB	—	DES	MRB	—	DCR 86-483 C&B3
2	11/28/90	MRB	MRB	MRB	BCL	RRC	REVISED NOTE 3 PER NEW DWS DESIGN STANDARD 31786 SECT 3.8
1	06/23/88	MRB	MRB	VNK	JMS	RRC	ADDED NOTE 5, CONT. REF. LOCATIONS. ADDED REDUCERS PER ERECTIONS ISO'S TO V514 PER ERECTION ISO.
0	06/06/86	MRB	MRB	TAK	MJT	WFO	INCORPORATED ECA 99/116162A, UPDATED PER U.E.C. P&ID.
REV	DATE	DSGN	DRWN	CHKD	CE	LDE	DESCRIPTION

PSNH
PUBLIC SERVICE OF NEW HAMPSHIRE

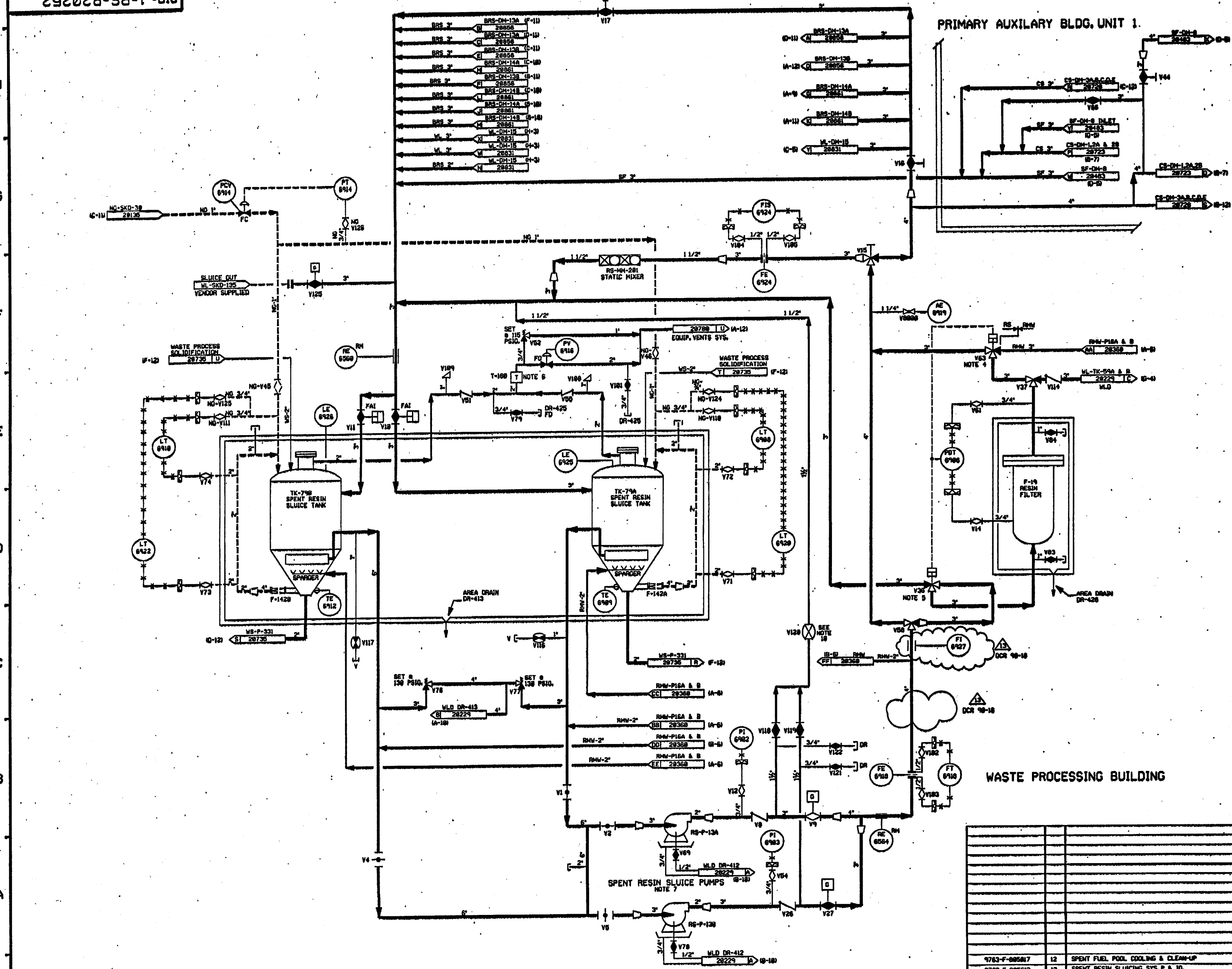
SEABROOK STATION

SOLID WASTE SYSTEM
PUMP SEAL WATER
DETAIL

PID- 1-WS-B20742

PID-1-RS-B20252

FOR PAID REFERENCE DRAWING SYMBOLS AND ABBREVIATIONS
REFER TO DRAWINGS P&ID - 1-00000 (1) AND P&ID - 1-00000 (2)



- NOTES:
1. ALL LINES, COMPONENTS, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX RS, UNLESS NOTED OTHERWISE.
 2. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS INS.
 3. THE RS IS A ONE DRAINING SYSTEM AND AN OVERVIEW IS NOT REQUIRED.
 4. VALVE V53 FAILS WITH FLOW TO AE-097.
 5. VALVE V56 FAILS WITH FLOW TO RS-F-19.
 6. THE TRAP IS EQUIPPED WITH 1/2" PIPE PLUGS TOP & BOTTOM FOR VENT/DRAIN.
 7. FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
 8. SEE DRAWING 20252.
 9. DELETED.
 10. INDICATES REVISION LEVEL.
 11. THIS VALVE IS THROTTLED.

REV	DATE	DSGN	CHKD	SES	DESCRIPTION
13	1/13/04	BCS	JIM	ZZB	RE-INCORP DCR 10-10 DCR 03-004300
12	7/28/07	MPV	BCS	VMS	INCORP H400 10-000 DCR IN
11	12/13/04	DMS	BCL	VMS	INCORP DCR 10-32 CAP4 AND H400 10-345 DCR 5
10	8/17/03	MRS	BCL	VMS	INCORP DCR 10-32 CAP5
9	8/24/02	BCL	MRS	JEV	RE-INCORP DCR 10-18 CAP
8	8/15/02	DMS	MRS	WFD	INCORP DCR 10-18 CAP
7	8/16/02	MRS	MPV	JEV	INCORP DCR 10-18 CAP
6	1/13/02	RHC	MRS	JEV	INCORP DCR 10-18 CAP
5	8/14/01	MPV	BCL	RRC	RE-INCORP DCR 10-215 CAP2 DELETED SPZ. INCORP. REFERENCE P&ID SHOWN IN PHANTOM.
4	11/4/00	JOM	WFD	RRC	REVISED NOTES, CORRECTED LOCATION OF DRAIN LINE PER ECA 74/180422A. ADDED COM. DNG. COORDINATES.
3	9/12/00	MPV	MVP	RRC	ADDED VALVE V56B TO AE-097. REVISED CONTINUATIONS.
2	8/24/00	TAK	WFS	RRC	REVISED CONTINUATIONS, CORRECTED REF. DNG. REV. UPDATED PER LATEST LEAC P&ID.
1	05/09/00	DGP	TAK	WFD	REVISED CONTINUATIONS.
0	06/22/00	TAK	DMS	WFD	ISSUED FOR OPERATIONS.

FPL ENERGY Seabrook Station

SPENT RESIN SLUICING SYSTEM

PID- 1-RS-B20252

