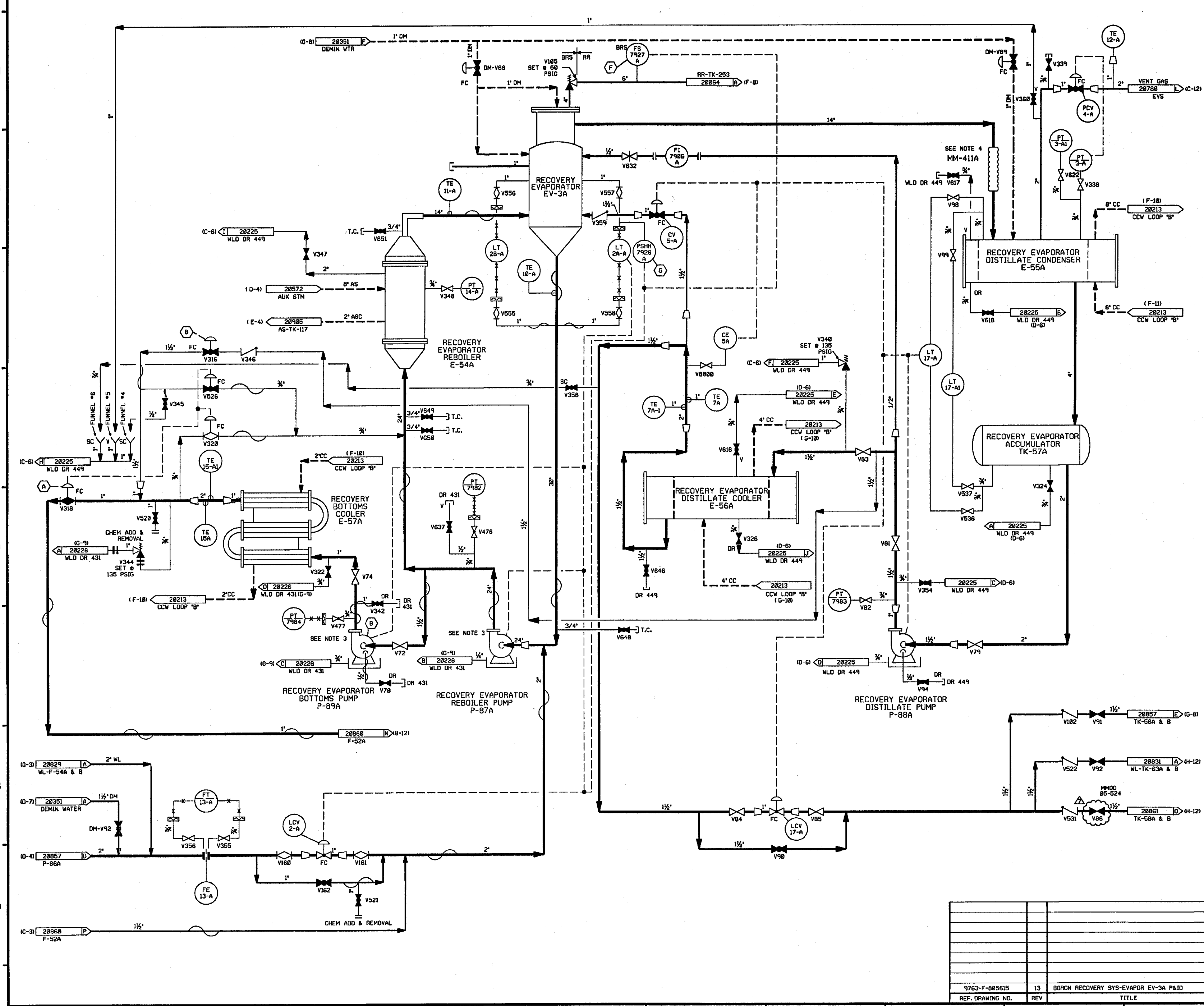


PID-1-BRS-B20858

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



- NOTES:
- 1) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'BRS' UNLESS NOTED OTHERWISE.
  - 2) WORK THIS DWG WITH DWG'S 20853, 20854, 20855, 20856, 20857, 20859, 20860 & 20861.
  - 3) SEE DWG DM-28353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
  - 4) ENTIRE LINE IS FLEX CONN.
  - 5) INSTRUMENT REFERENCES:
    - (A) HIGH E-57A OUTLET TEMP. HIGH WS-TK-76 LEVEL AND LOW EV-3B LEVEL WS-TK-76 TRANSFER VALVE INTERLOCK.
    - (B) BRS-P-89A, DISTILLATE FLUSH V316 INTERLOCK.
    - (C) TO 1-DM-V88 ON DWG DM-28351 (H-7) & 1-BRS-FCV-1A ON DWG AS-20572 (D-6).
    - (D) TO 1-DM-V88 ON DWG DM-28351 (H-7) & 1-BRS-FCV-1A ON DWG AS-20572 (D-6).
  - 6) Δ INDICATES REVISION LEVEL.
  - 7) ALL LINES, EQUIPMENT COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NWS UNLESS NOTED OTHERWISE.

|     |          |      |      |     |   |
|-----|----------|------|------|-----|---|
| 7   | 6/13/04  | BCS  | JM-4 | DJM | INCORP MMDD 05-524 DCN-83   |
| 6   | 12/7/92  | MRB  | DWS  | DJM | INCORP DCR 87-84 CA 28  |
| 5   | 11/7/92  | MRB  | BCL  | DJM | INCORP DCR 87-84 CA8  |
|     |          |      |      |     | INCORP DCR 86-634 CA8<br>REVISED VALVE POSITION PER NHY<br>PID DM-28351<br>ADDED LINE SIZE FOR CLARITY<br>DELETED REDUNDANT INTERFACE INFO.<br>& VALVE DIAPHRAGM SYMBOL PER UE&C<br>PID 9763-F-805615 |
| 4   | 12/18/91 | MRB  | JM   | GRM | INCORP DCR 86-587, CORRECTED<br>DRAWING ERRORS, REVISED NOTE 7.   |
| 3   | 9/18/87  | JDM  | BCL  | RRC | RE-INCORP ECA 86/116967A, ADDED V8800<br>CONTINUATION FLAG REF'S & NOTE 6.<br>REVISED TUBING SYMBOL FOR PT-7982 PER<br>UE&C P&ID AND CONTINUATION FLAG REF.<br>ADDED P&ID LEGEND NOTE.                |
| 2   | 10/3/86  | MRJ  | BCL  | RRC | INCORP ECA 86/116967A & 19/116983C<br>ADDED REDUCER & FLANGS.<br>CHANGE ITEM Δ RESOLVED PER<br>LATEST UE&C P&ID   |
| 1   | 8/24/88  | JDM  | JNK  | RRC | INCORP ECA 86/116967A & 19/116983C<br>ADDED REDUCER & FLANGS.<br>CHANGE ITEM Δ RESOLVED PER<br>LATEST UE&C P&ID   |
| 0   | 1/13/86  | GD   | JDM  | WFD | ISSUED FOR OPERATIONS   |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION   |

**FPL ENERGY** Seabrook Station

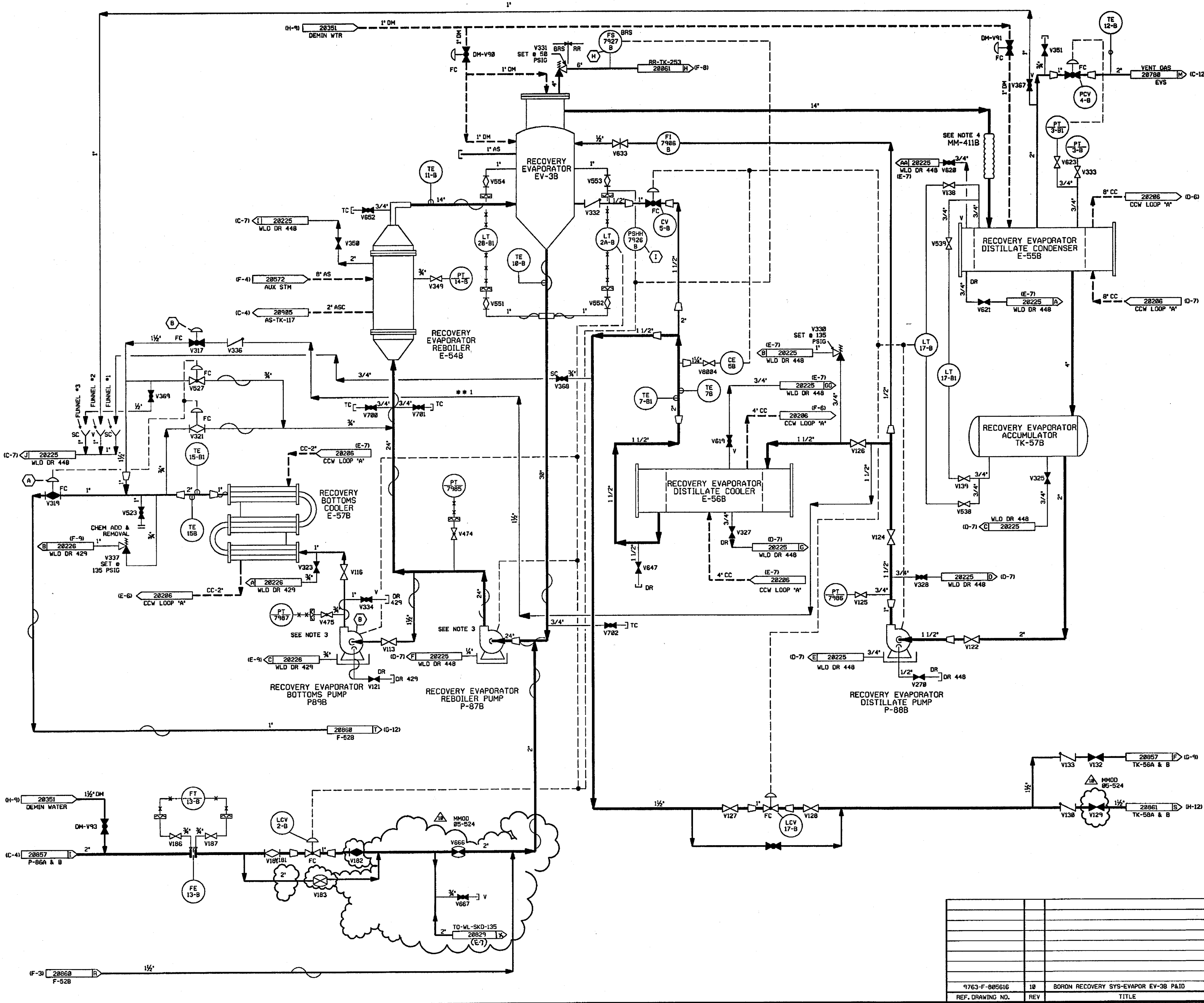
BORON RECOVERY SYSTEM  
EVAPORATION  
DETAIL

PID- 1-BRS-B20858

|                  |     |                                      |
|------------------|-----|--------------------------------------|
| 9763-F-805615    | 13  | BORON RECOVERY SYS-EVAPOR EV-3A P&ID |
| REF. DRAWING NO. | REV | TITLE                                |

PID-1-BRS-B20859

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



- NOTES:
- 1) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "BRS" UNLESS NOTED OTHERWISE.
  - 2) WORK THIS DWG WITH DWG'S 28853, 28854, 28855, 28856, 28857, 28858, 28859 & 28861.
  - 3) SEE DWG DM-28353 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
  - 4) ENTIRE LINE IS FLEX CONN.
  - 5) INSTRUMENT REFERENCES:
    - (A) HIGH E-57B OUTLET TEMP, HIGH WS-TK-76 LEVEL AND LOW EV-38 LEVEL WS-TK-76 TRANSFER VALVE INTERLOCK.
    - (B) BRS-P-89B, DISTILLATE FLUSH V317 INTERLOCK.
    - (H) TO I-DM-V98 ON DWG DM-28351 (H-9) & I-BRS-FCV-18 ON DWG AS-28572 (G-6).
    - (I) TO I-DM-V98 ON DWG DM-28351 (H-9) & I-BRS-FCV-18 ON DWG AS-28572 (G-6).
  - 6) Δ INDICATES REVISION LEVEL
  - 7) DELETED
  - 8) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.

|     |          |      |      |     |   |
|-----|----------|------|------|-----|---|
| 10  | 6/8/06   | BCS  | JM   | WVS | INCORP. MM00 85-524 DCN 00, 03  |
| 9   | 8/18/97  | MRB  | BCS  | VWS | INCORP. MM00 96-558 DCN 01  |
| 8   | 12/7/92  | MRB  | DWS  | DJM | INCORP. DCR 87-84 CA 28   |
| 7   | 11/7/92  | MRB  | BCL  | DJM | INCORP. DCR 87-84 CA0   |
| 6   | 12/18/91 | MRB  | JM   | GRM | INCORP. DCR 86-634 CA0  |
| 5   | 5/25/88  | GPH  | APL  | DJM | INCORP. DCR 88-803 REVISED PIPING TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS, NOTE 8. ADDED: HEAT TRACE SYMBOL PER LINE LIST, LINE SIZE PER IEC & E ISO F-11852 DELETED CHANGE ITEM 1 PER DCR 88-803. |
| 4   | 9/16/87  | JDM  | BCL  | RRC | INCORP. DCR 86-587, ADDED V-8804 PER EXISTING FIELD CONFIG. DELETED NOTE 7, CORRECTED DRAFTING ERRORS, REVISED TO CLARIFY DUPLICATION OF ASSOCIATED SYSTEMS. ADDED: NOTE 8 PER 885616, CHG. ITEM 1.     |
| 3   | 2/18/87  | JDM  | WRD  | VWS | APPROVED CHANGE ITEM #1 PER COMPLETION OF MR486W010018.   |
| 2   | 12/22/86 | FJR  | WRD  | RRC | INCORP. ECA 19/882818A, ADDED & REV'D CONT. FLAG COORD'S, CORRECTED DRAFTING ERRORS PER U&C PAID. REV. REF. DWG LIST, ADDED & REV. CONT. FLAG REF. DWGS. ADDED NOTES 6 & 7.                             |
| 1   | 6/28/86  | GO   | BCL  | RRC | INCORP. ECA 19/16888A, ECA 88/882817C & ECA 19/114273A, CHANGE ITEM 1. RESOLVED PER LATEST U&C PAID. CHANGE ITEM 2 RESOLVED PER ECA 19/881285A.   |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION   |

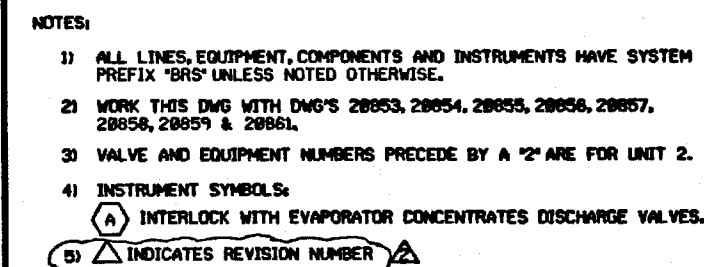
**FPL ENERGY** Seabrook Station


**BORON RECOVERY SYSTEM EVAPORATION DETAIL**

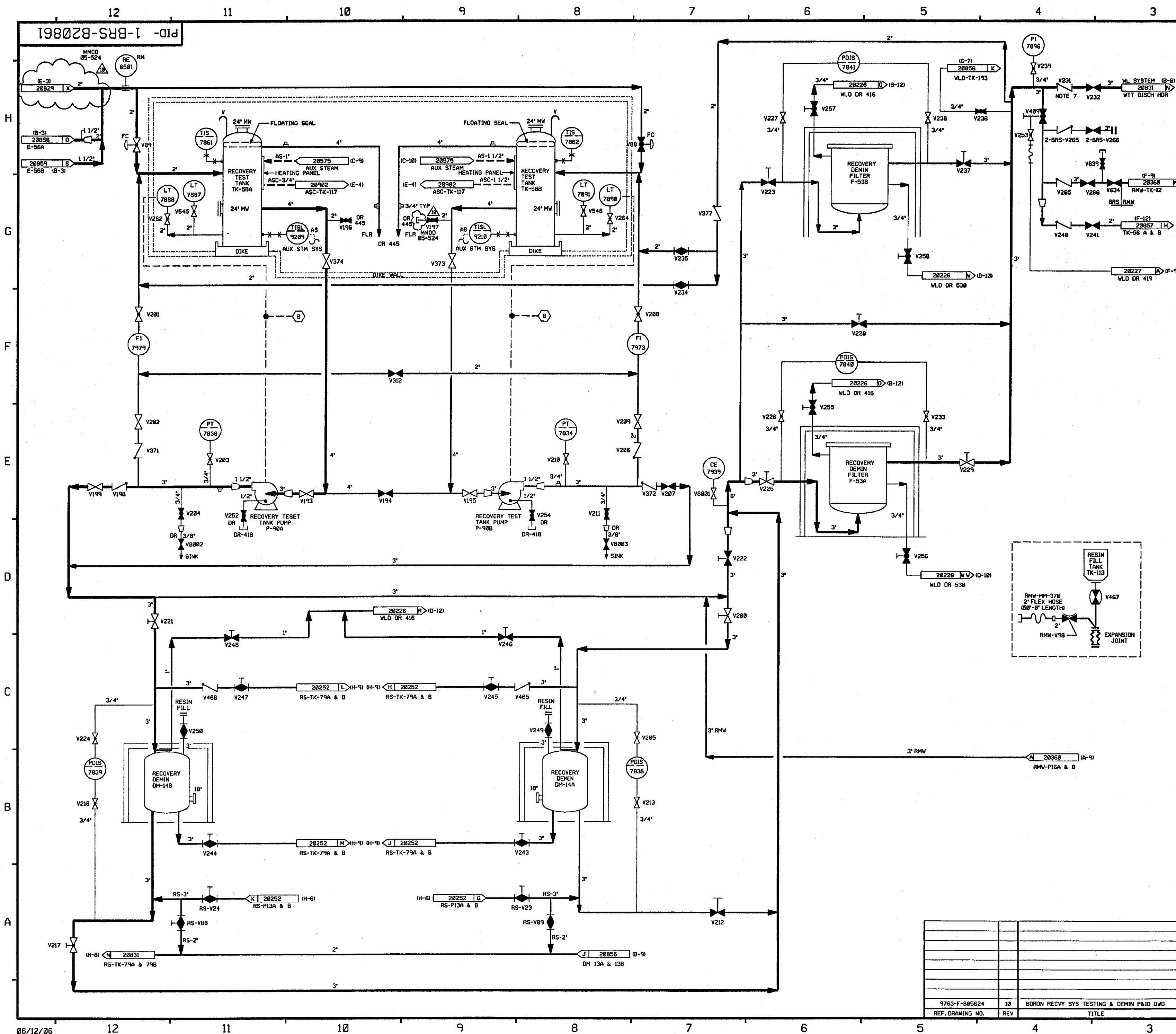
PID- 1-BRS-B20859

|                  |     |                                      |
|------------------|-----|--------------------------------------|
| 9763-F-805616    | 10  | BORON RECOVERY SYS-EVAPOR EV-38 P&ID |
| REF. DRAWING NO. | REV | TITLE                                |

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



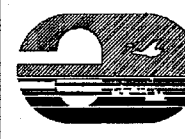
|   |  |                                 |              |
|---|--|---------------------------------|--------------|
| PSNH  |  | PUBLIC SERVICE OF NEW HAMPSHIRE |              |
|  | BORON RECOVERY SYSTEM<br>EVAPORATION<br>DETAIL |                                 |              |
|   | SEABROOK STATION                               | PID-                            | 1-BRS-B20860 |



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

- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX "BRS" UNLESS OTHERWISE NOTED.
  2. WORK THIS DWG WITH DWGS 20853, 20854, 20855, 20856, 20857, 20858, 20859 & 20860.
  3. VALVE & EQUIPMENT NUMBERS PRECEDED BY A "2" ARE FOR UNIT 2.
  4.  $\Delta$  INDICATES REVISION LEVEL.
  5. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS RMS UNLESS OTHERWISE NOTED.
  6. INSTRUMENT REFERENCES  
(B) TO WL-FCV-1458-1 & 2, DRAWING WL-28831
  7. INTERNALS OF CHECK VALVE BRS-V231 HAVE BEEN REMOVED.

|     |          |      |      |     |   |
|-----|----------|------|------|-----|---|
| 10  | 6/13/04  | BCS  | JM   | JM  | INCORP. MMOD 05-524 DCN-00, 02  |
| 9   | 9/25/03  | BCS  | JM   | JM  | INCORPORATED MSE 03-133 REV. 00   |
| 8   | 11/17/98 | BCS  | MPW  | JCM | INCORPORATED DCR 98-029 DCN-01  |
| 7   | 10/21/98 | BCS  | DWS  | DJM | INCORPORATED DCR 98-029 DCN-00  |
| 6   | 7/24/94  | BCL  | MPW  | VWS | INCORPORATED MMOD 95-506 CA-0   |
| 5   | 3/28/89  | MRB  | PAL  | MJY | INCORPORATED DCR 86-185 CA 3  |
|     |          |      |      |     | INCORP. DCR 80-003<br>REVISED INLETS TO DM-14A & B PER<br>UE & C ISO. V8002, 3 SYMBOL PER AS<br>BUILT CONDITION. PIPING TO CLARIFY<br>ASSOCIATED SYSTEMS<br>ADDED NOTE 5 PER UE & C P & ID<br>065624, DWG CONT LETTERS.                                 |
| 4   | 5/25/88  | GPM  | APL  | DJM | RESOLVED CHANGE ITEM 1 PER AS-BUILT<br>COND., CORRECTED INCORP. OF ECA<br>19/1159648, DELETED NOTE 5.   |
| 3   | 1/7/87   | MRJ  | WRD  | RRC | INCORP. ECA'S 99/117127A & 19/1159648.<br>ADDED DWG CODE TO CONT. FLARE DIKE<br>WALL BOUNDARY. REF. DWG NOTE 5. NOTE<br>FOR DWG REV. LEVEL CHANGED V277 TO<br>V227, REVISED P-90A & B DISCH. HOR.<br>DRAIN VALVE & PIPING FOR DEMIN. TKS<br>DM-14A & B. |
| 2   | 10/17/86 | CSB  | MAP  | RRC | CORRECTED V194 TO GATE, REVISED<br>CONTINUATION, RESOLVED CHNG. ITEM NO.1<br>INC. 065624 REV. 10.   |
| 1   | 6/10/86  | DWS  | DWS  | RRC | INCORPORATE ECA 06/06002<br>ISSUED FOR OPERATIONS   |
| 0   | 1/13/86  | OD   | JDM  | WFO |   |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION   |

**FPL ENERGY**

Seabrook Station

BORON RECOVERY SYSTEM  
TESTING & DEMINERALIZATION  
DETAIL

PID- 1-BRS-B20861

|                  |     |  |
|------------------|-----|--|
| 7763-F-005524    | 10  | BORON RECVY SYS TESTING & DEMIN P&ID DWG |
| REF. DRAWING NO. | REV | TITLE                                    |



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

NOTES:

- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'BRS' UNLESS NOTED OTHERWISE.
- WORK THIS DWG WITH DWG'S 20853, 20855, 20856, 20857, 20858, 20859, 20860 & 20861.
- SEE DRAWING DM-20853 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
- VALVE IS CLOSED DURING UNIT 2 CONSTRUCTION.
- INDICATES REVISION LEVEL.
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
- INSTRUMENT REFERENCES:  
(D) FROM 1-BRS-FS-7925 ON DWG BRS-20855 (F-7)  
(E) FROM 1-BRS-PSHH-7924 ON DWG BRS-20855 (F-7)  
(J) FROM 1-BRS-PSH-3-1 ON DWG BRS-20855 (F-5)

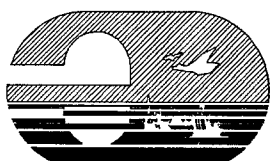
|     |         |      |      |     |  |
|-----|---------|------|------|-----|--|
| 9   | 9/7/07  | JM   | BRS  | FS  | INCORP MSE 07-149 REV. 0   |
| 8   | 5/30/08 | BCS  | DWS  | WFZ | INCORP MSE 00-124 REV. 0   |
| 7   | 6/6/99  | DWS  | RWS  | DJM | INCORP MMD 970618 DCN#00   |
| 6   | 11/7/92 | DWS  | BCL  | DJM | INCORP DCR 870084 CA#0 & 5   |
| 5   | 4-23-92 | MRB  | MPW  | JEV | REMOVED REF. TO UNIT 2 (LATER)<br>INCORP MMD'S 91-511 CAB & 91-515 CAB   |
| 4   | 5/26/89 | MRB  | PAL  | IW  | INCORP DCR 87-110 CA II<br>REVISED: CONT. COORD.<br>ADDED: NOTE 6  |
| 3   | 1/6/88  | MPW  | DWS  | MJY | INCORP DCR 87-314 & ECA 19/10/1717A<br>UNIT 2 VALVES SHOWN CLOSED PER<br>NOTE 4; REVISED: FLOW ON BYPASS LINE,<br>CONT. COORDINATES ADDED; FLOW ARROW<br>TO TK-66A.  |
| 2   | 10/3/86 | CSB  | BCL  | RRC | REV'D WG 1" LINE (FROM WG-P-263) TO<br>AGREE WITH P&ID 20822 & REV'D CONT<br>FLAG (20771) ADDED: P&ID BOUNDARY,<br>CONT. FLAG IDENT LETTER 'C' (20519) &<br>'H' (20855) ADDED: LCV-1124 TO CONT<br>FLAG (20724) ADDED: NOTE 5. |
| 1   | 6/19/86 | JDM  | DWS  | RRC | REMOVED CHANGE ITEMS 1 & 2,<br>INCORP ECA'S 19/24898, 19/116021A,<br>19/116172A, AND 085626 REV. 11  |
| 0   | 1/13/86 | GO   | JDM  | WFD | ISSUED FOR OPERATIONS  |
| REV | DATE    | DSGN | CHKD | CE  | DESCRIPTION  |

**FPL ENERGY**

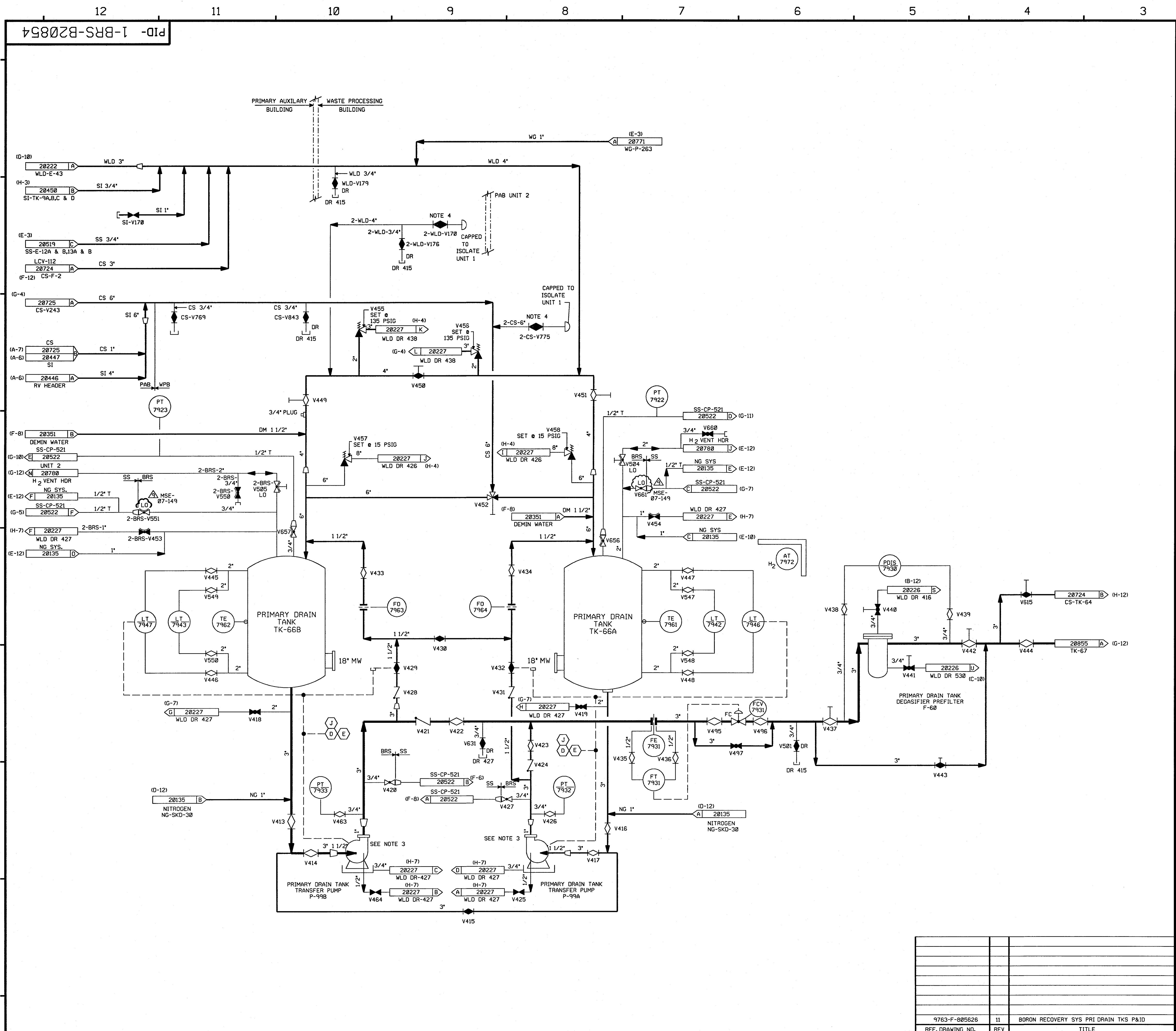
Seabrook Station

BORON RECOVERY SYSTEM  
DEGASIFICATION  
DETAIL

PID- 1-BRS-B20854

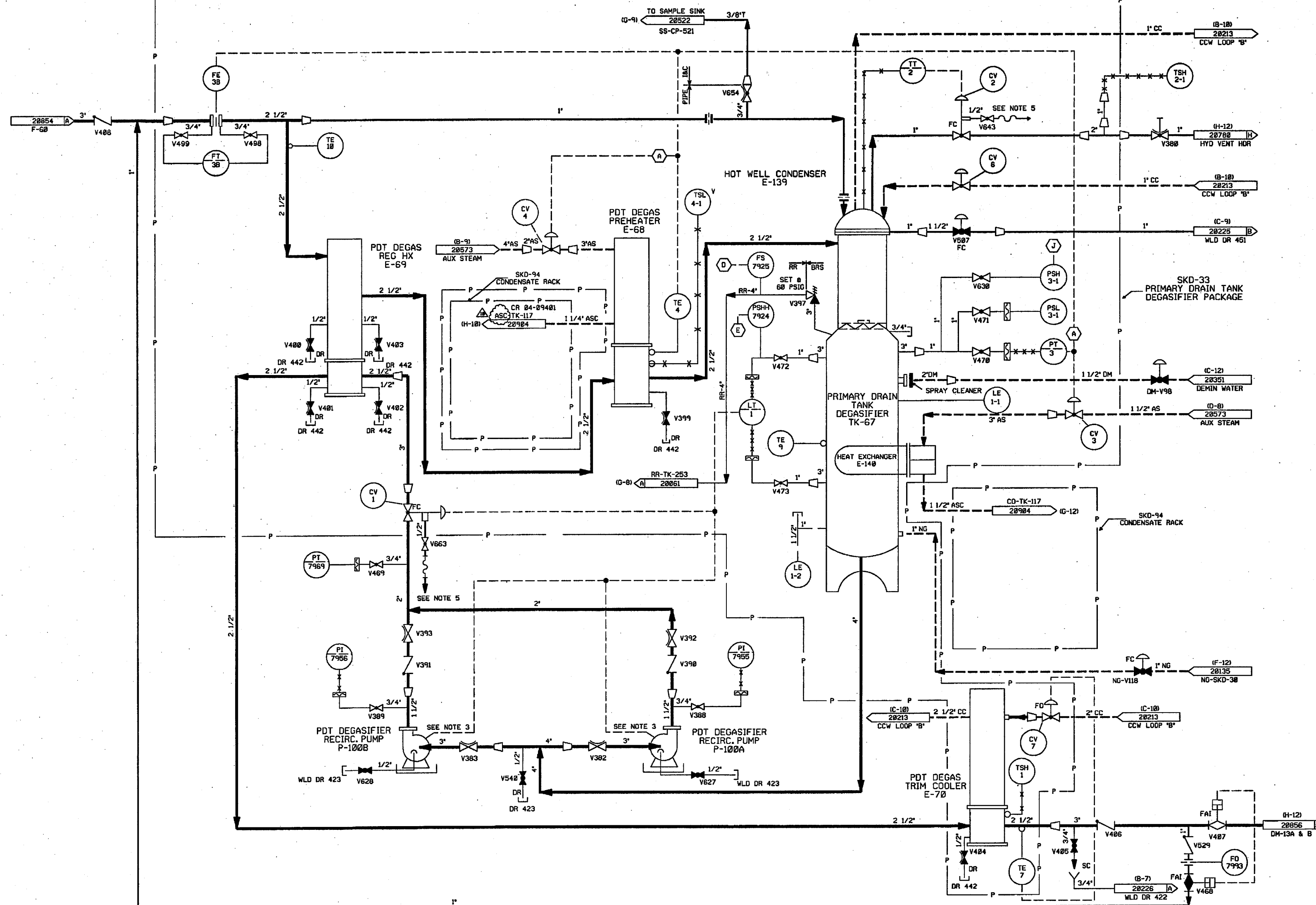


|                  |     |                                       |
|------------------|-----|---------------------------------------|
| 9763-F-805626    | 11  | BORON RECOVERY SYS PRI DRAIN TKS P&ID |
| REF. DRAWING NO. | REV | TITLE                                 |



PID-1-BRS-B20855

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



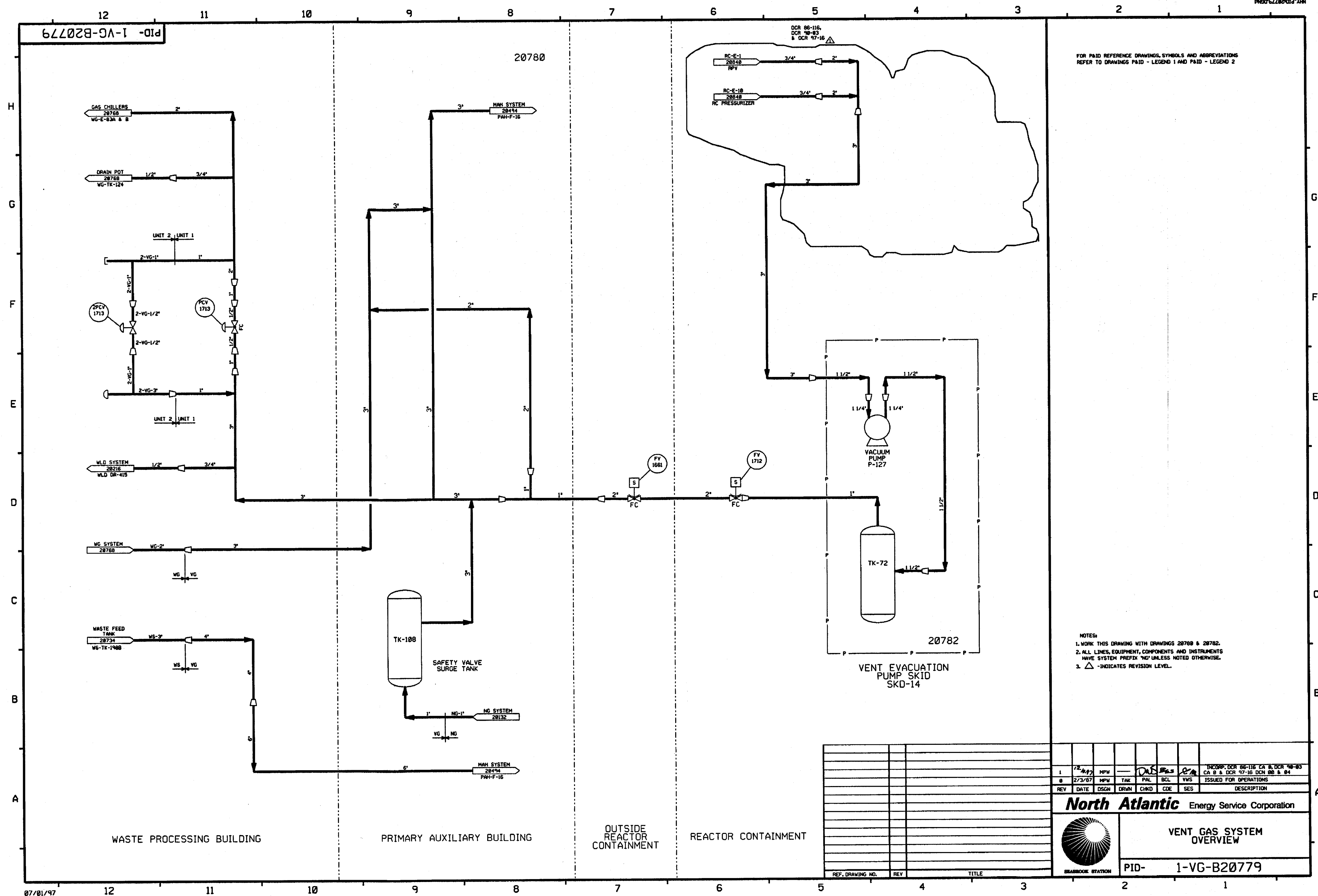
- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'BRS' UNLESS NOTED OTHERWISE.
  2. WORK THIS DWG WITH DWG'S 20853, 20854, 20856, 20857, 20858, 20859, 20869 & 20861.
  3. SEE DWG DM-20354 FOR WATER SUPPLY TO PUMP DOUBLE MECHANICAL SEALS.
  4.  $\Delta$  INDICATES REVISION LEVEL.
  5. REFER TO DRAWING VSL-20774 FOR VALVE LEAKOFF.
  6. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NMS UNLESS NOTED OTHERWISE.
  7. INSTRUMENT REFERENCES:  
 (A) TO 1-BRS-CV-3 & 4 ON DWG AS-20573 IC-10.  
 (E) TO 1-AS-CV-3, 1-AS-CV-4 ON DWG AS-20573 IC-9.  
 (J) TO 1-BRS-P-99A & B ON DWG BRS-20854 IC-8/IC-10.  
 TO 1-DM-V98 ON DWG DM-20351 IC-12.

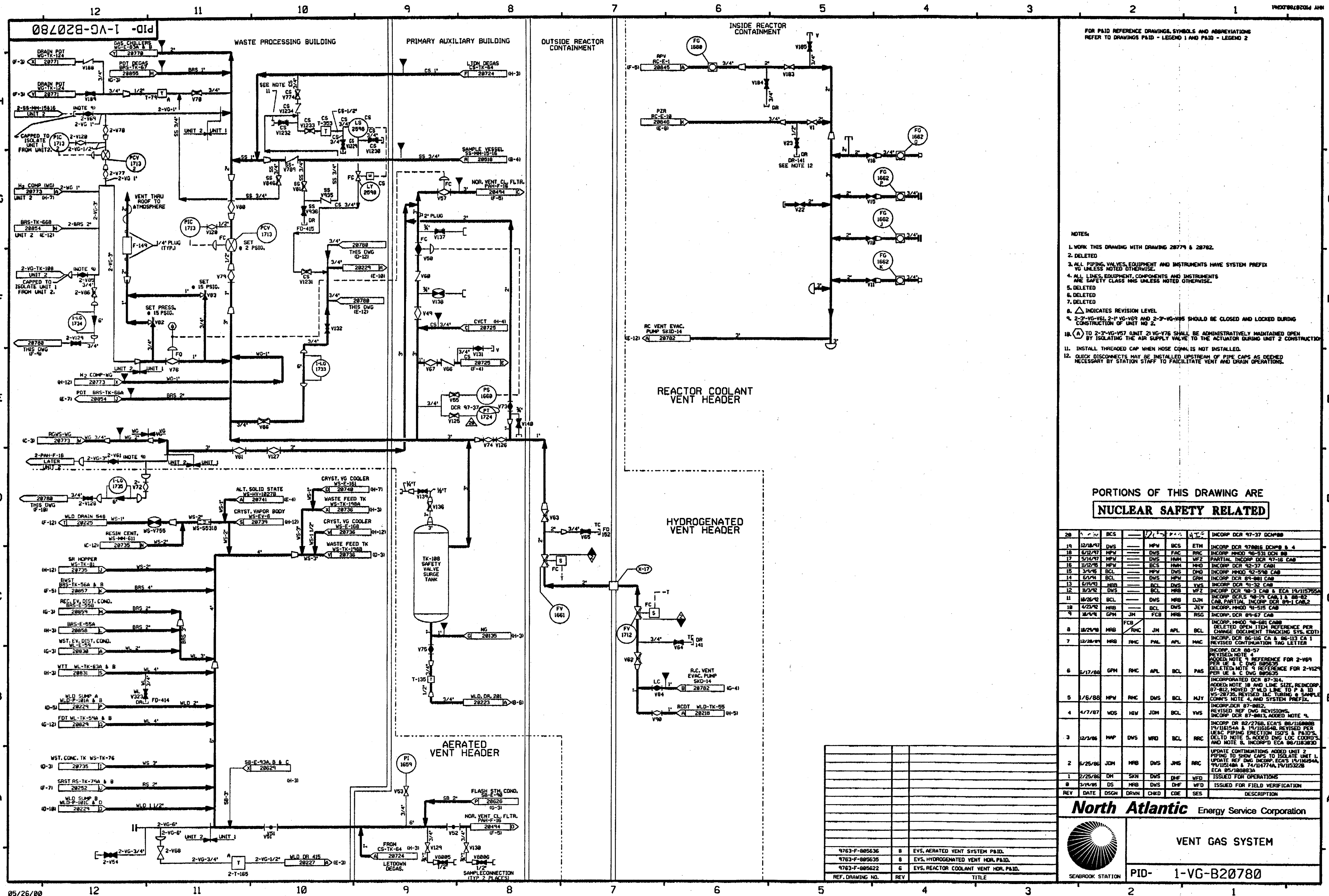
RECORDS MANAGEMENT DEPT.  
CONTROL NUMBER

| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION  |
|-----|----------|------|------|-----|--|
| 10  | 12-8-04  | BCS  | JM   | RRB | INCRP CR 04-09401 REV. 00  |
| 9   | 8/30/04  | BCS  | MPW  | RCP | INCRP MMOD 98-641 DCN-00   |
| 8   | 12/7/92  | MRB  | DWS  | DJM | INCRP DCR 87-04 CA 20  |
| 7   | 11/7/92  | MRB  | BCL  | DJM | INCRP DCR 87-04 CA#0, 5 & 25<br>ADDED NOTE 14 & INSTR. REFERENCE<br>REMOVED FLANGES FROM B P&ID  |
| 6   | 12/20/89 | MRB  | PAL  | ES  | INCRP DCR 86-113 CA01.<br>INCRP DCR 88-003<br>REVISED V382, 383, 393, 397, 399, 400,<br>401, 402, 403, & 404 VALVE SYMBOL PER<br>FP 53678.<br>ADDED RESTRICTING ORIFICE SYMBOL TO<br>INLET E-139 PER FP 53758, NOTE 6<br>PER UE & C P & ID 805618. |
| 5   | 5/25/88  | GPM  | APL  | DJM | INCRP ECA 19/1079088<br>REV'D TO CLARIFY DUPLICATION OF<br>ASSOC SYSTEM & NOTE 3. ADDED<br>NOTE 5, CONT. COORD. LINE SIZE & FLG'S  |
| 4   | 8/14/87  | GPM  | MPW  | RRC | INCRP DCR-618  |
| 3   | 1/23/87  | JDM  | WHD  | RRC | REMOVED NONAPPLICABLE REF DWGS.<br>INCRP NCR 95/116A ECA 19/11727A<br>SYSTEM CHANGED TO BRS ON VALVES<br>CV-3, CV-4, CV-5 & CV-7. WAS AS<br>AND CC IN ERROR, ADDED CONTINUATIONS.  |
| 2   | 1/26/86  | MPW  | MAP  | RRC | INCRP DCA 99/114788A   |
| 1   | 6/16/86  | DWS  | JDM  | RRC | ISSUED FOR OPERATIONS  |
| 0   | 1/13/86  | GD   | JDM  | WFD |  |

**FPL ENERGY** Seabrook Station  
BORON RECOVERY SYSTEM  
DEGASIFICATION  
DETAIL  
PID- 1-BRS-B20855

| REF. DRAWING NO. | REV | TITLE                                    |
|------------------|-----|--|
| 9763-F-805618    | 10  | BORON RECOV SYS-PRIM DRAIN TK DEGAS P&ID |





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 DRAWING 28779 & 28782.
  2. DELETED
  3. ALL PIPING, VALVES, EQUIPMENT AND INSTRUMENTS HAVE SYSTEM PREFIX UNLESS NOTED OTHERWISE.
  4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS UNLESS NOTED OTHERWISE.
  5. DELETED
  6. DELETED
  7. DELETED
  8.  $\Delta$  INDICATES REVISION LEVEL.
  9. 2-3-VG-VEL 2-1-VG-V69 AND 2-3-VG-V65 SHOULD BE CLOSED AND LOCKED DURING CONSTRUCTION OF UNIT NO. 2.
  10. (A) TO 2-3-VG-V67 UNIT 21 V6-V76 SHALL BE ADMINISTRATIVELY MAINTAINED OPEN BY ISOLATING THE AIR SUPPLY VALVE TO THE ACTUATOR DURING UNIT 2 CONSTRUCTION.
  11. INSTALL THREADED CAP WHEN HOSE CONN. IS NOT INSTALLED.
  12. QUICK DISCONNECTS MAY BE INSTALLED UPSTREAM OF PIPE CAPS AS DEEMED NECESSARY BY STATION STAFF TO FACILITATE VENT AND DRAIN OPERATIONS.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

| REV | DATE     | DSGN | DRWN | CHKD | CDE | SES | DESCRIPTION                   |
|-----|----------|------|------|------|-----|-----|-------------------------------|
| 1   | 2/25/86  | DS   | SKN  | DWS  | DHF | WFD | ISSUED FOR OPERATIONS         |
| 2   | 3/19/86  | DS   | MRB  | DWS  | DHF | WFD | ISSUED FOR FIELD VERIFICATION |
| 3   | 12/2/86  | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 4   | 4/7/87   | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 5   | 1/5/88   | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 6   | 5/17/88  | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 7   | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 8   | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 9   | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 10  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 11  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 12  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 13  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 14  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 15  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 16  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 17  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 18  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 19  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |
| 20  | 12/28/88 | WOS  | HEV  | JDM  | BCL | NRC | INCORP'D ECA 98/183830        |

**North Atlantic** Energy Service Corporation

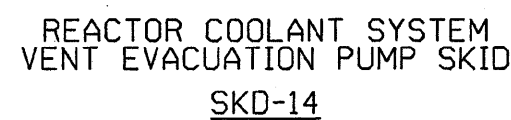
**VENT GAS SYSTEM**

PID- 1-VG-B20780

SEABROOK STATION

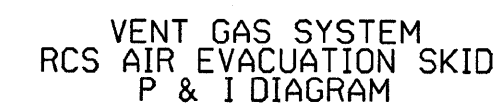


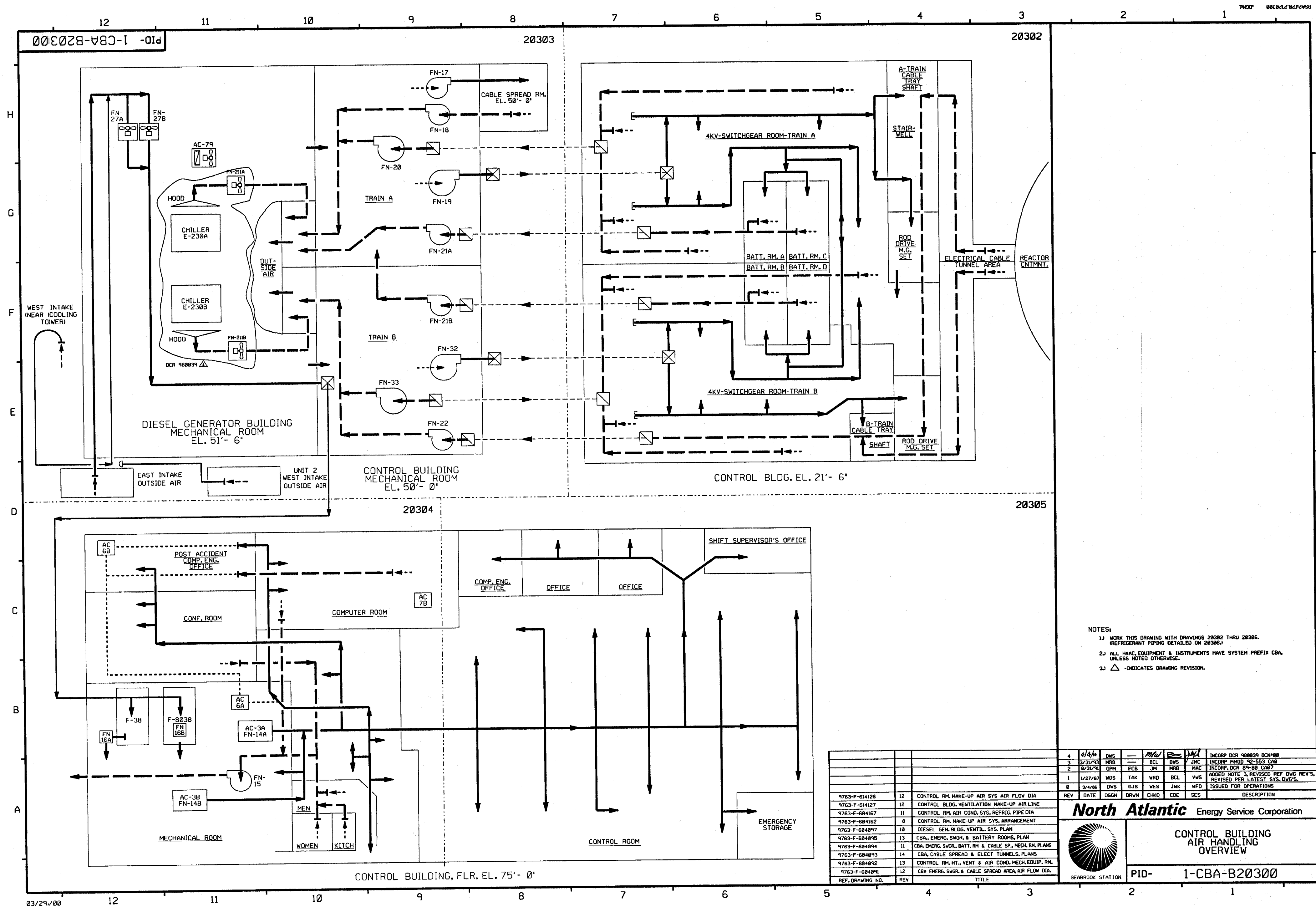
PID- 1-VG-B20782



CR 08-06985

**FPL ENERGY** Seabrook Station

[illegible]



- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 20302 THRU 20306. (REFRIGERANT PIPING DETAILED ON 20306J)
  - 2) ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED OTHERWISE.
  - 3)  $\Delta$  -INDICATES DRAWING REVISION.

| 4                | 4/4/00  | DWS  | —    | MB   | —   | JMC | INCORP DCR 980039 DCM#00   |
|------------------|---------|--|------|------|-----|-----|--|
| 3                | 3/31/93 | MRB  | —    | BCL  | DWS | JMC | INCORP M400 92-553 CAB   |
| 2                | 8/31/91 | GPM  | FCB  | JH   | MRB | MAC | INCORP DCR 89-08 L407  |
| 1                | 1/27/87 | WDS  | TAK  | WRD  | BCL | VMS | ADDED NOTE 3, REVISED REF DWG REV'S, REVISED PER LATEST SYS.DWG'S. |
| 0                | 3/4/86  | DWS  | GJS  | WES  | JWK | WFD | ISSUED FOR OPERATIONS  |
| REV              | DATE    | DSGN   | DRWN | CHKD | CDE | SES | DESCRIPTION  |
| 9763-F-614128    | 12      | CONTROL RM. MAKE-UP AIR SYS AIR FLOW DIA                 |      |      |     |     |  |
| 9763-F-614127    | 12      | CONTROL BLDG. VENTILATION MAKE-UP AIR LINE               |      |      |     |     |  |
| 9763-F-604167    | 11      | CONTROL RM. AIR COND. SYS. REFRIG. PIPE DIA              |      |      |     |     |  |
| 9763-F-604162    | 8       | CONTROL RM. MAKE-UP AIR SYS. ARRANGEMENT                 |      |      |     |     |  |
| 9763-F-604097    | 10      | DIESEL GEN. BLDG. VENTIL. SYS. PLAN                      |      |      |     |     |  |
| 9763-F-604095    | 13      | CBA, EMERG. SWGR. & BATTERY ROOMS, PLAN                  |      |      |     |     |  |
| 9763-F-604094    | 11      | CBA, EMERG. SWGR. BATT. RM. & CABLE SP., MECH. RM. PLANS |      |      |     |     |  |
| 9763-F-604093    | 14      | CBA, CABLE SPREAD & ELECT TUNNELS, PLANS                 |      |      |     |     |  |
| 9763-F-604092    | 13      | CONTROL RM. HT., VENT & AIR COND. MECH. EQUIP. RM.       |      |      |     |     |  |
| 9763-F-604091    | 12      | CBA EMERG. SWGR. & CABLE SPREAD AREA, AIR FLOW DIA.      |      |      |     |     |  |
| REF. DRAWING NO. | REV     | TITLE  |      |      |     |     |  |



**North Atlantic** Energy Service Corporation

**CONTROL BUILDING AIR HANDLING OVERVIEW**

PID- 1-CBA-B20300

SEABROOK STATION

PID-1-CBA-B20304

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

NOTES:

- WORK THIS DRAWING WITH DRAWINGS 20300, 20302, 20303, 20305 & 20306.
- ALL HVAC EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX 'CBA', UNLESS NOTED OTHERWISE.
- FOR SYMBOL LEGEND SEE DRAWING 20302.
- INSTRUMENT REFERENCES:  
 (A) TIE-IN FOR UNIT HEATERS UH-120 THRU UH-125 & TSL-5357 ON THIS DRAWING.  
 (C) SAFETY INJECTION SIGNAL 'SI'  
 (D) INTERLOCK WITH FILTER RECIRC. SIGNAL, LOGIC DIAGRAM 503231.  
 (K) TO PD15-5332 ON DRAWING 20303
- EXHAUST FAN FN-15 & DAMPER DP-28 IS SIZED FOR 1200 CFM CONSIDERING THE WORST POSSIBLE CASE OF ZERO CFM EXFILTRATION.
- FILTER DIFFERENTIAL PRESSURE & REQUIRED FLOWS:

| FILTER TAG NO. | CLEAN FLOW CFM | DIRTY FLOW CFM | ANSI DIRTY FLOW CFM | SURVEILLANCE TEST FLOW CFM | SURVEILLANCE TEST FLOW +10% CFM | SURVEILLANCE TEST FLOW -10% CFM |
|----------------|----------------|----------------|---------------------|----------------------------|---------------------------------|---------------------------------|
| CBA-F-38       | 1210           | 1100           | 990                 | 1100                       | 1210                            | 990                             |
| CBA-F-8038     | 1210           | 1100           | 990                 | 1100                       | 1210                            | 990                             |

| FAN TAG NUMBER | FILTER TAG NUMBER | EMERGENCY TOTAL=1100 ± 10% MAKE-UP | RECIRC     | FAN TAG NUMBER | FILTER TAG NUMBER | NORMAL MAKE-UP TOTAL=1000 ± 10% |
|----------------|-------------------|------------------------------------|------------|----------------|-------------------|---------------------------------|
| CBA-FN-16A     | CBA-F-38          | 540 TO 600                         | 390 TO 610 | CBA-FN-27A     | CBA-F-38          | 500 ± 10%                       |
|                | CBA-F-8038        | 0                                  | COMBINED   |                | CBA-F-8038        | 500 ± 10%                       |
| CBA-FN-16B     | CBA-F-38          | 0                                  | 390 TO 610 | CBA-FN-27B     | CBA-F-38          | 500 ± 10%                       |
|                | CBA-F-8038        | 540 TO 600                         | COMBINED   |                | CBA-F-8038        | 500 ± 10%                       |

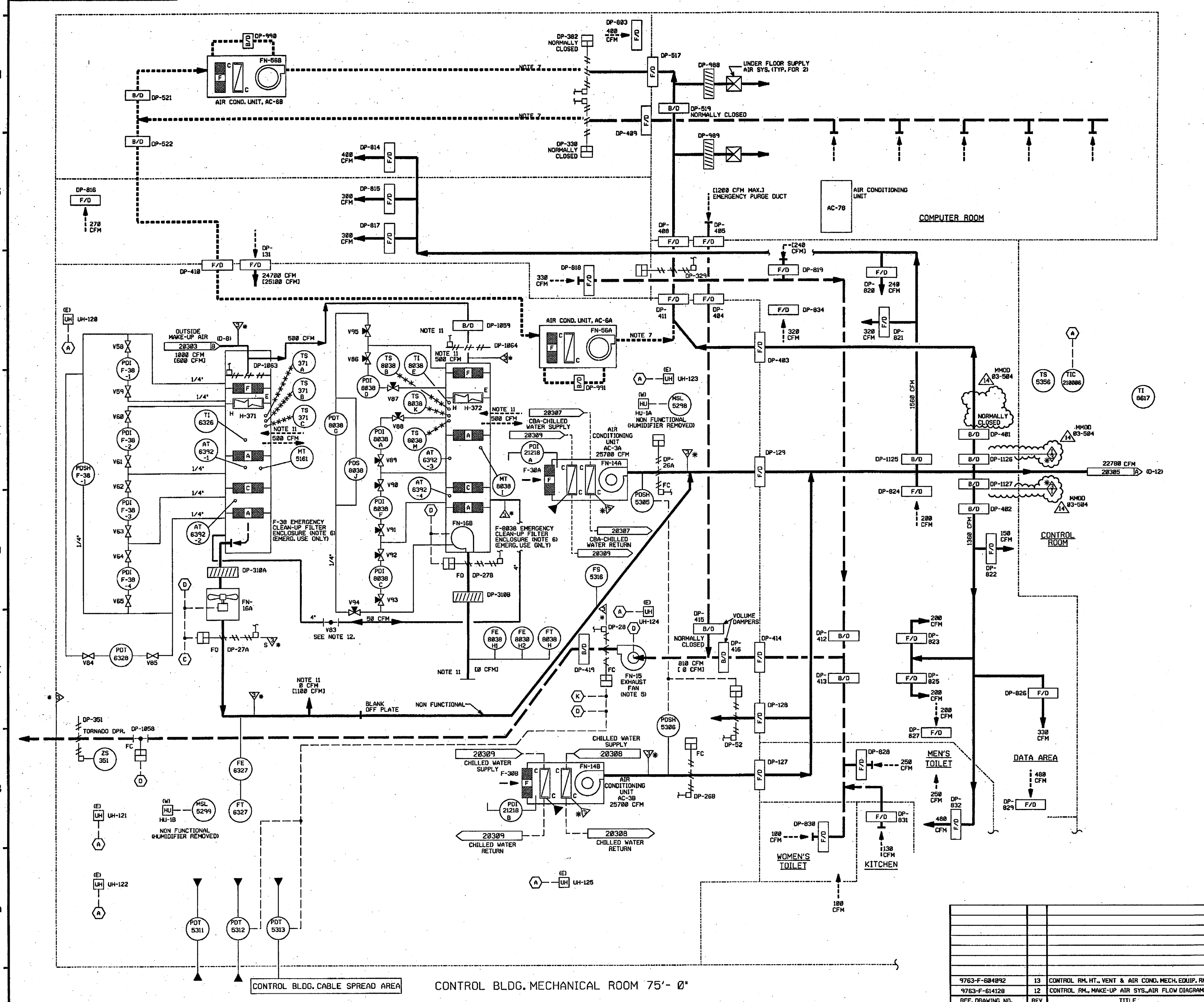
PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

|     |         |      |      |      |  |
|-----|---------|------|------|------|--|
| 14  | 9-2-06  | JM   | BCS  | 223  | INCORP MMD 83-504 DCM 00   |
| 13  | 5/2/00  | DWS  | BCS  | JMS  | INCORP DCR 900039 DCM#04   |
| 12  | 3/24/00 | DWS  | BCS  | JMS  | INCORP DCR 900039 DCM#00   |
| 11  | 2/15/00 | DWS  | BCS  | JMS  | PARTIAL INCORP DCR 900039 DCM#00   |
| 10  | 8/10/99 | DWS  | BCS  | MKC  | INCORP DCR 900047 DCM#00 & 03, DCR 900004 DCM#00 & REINCORP DCR 900037 DCM#00                              |
| 9   | 10/2/98 | MPW  | BCS  | GPM  | INCORP DCR 90-25 DCM 00  |
| 8   | 7/03/98 | JWB  | JLM  | JMS  | INCORP DCR 98-37 DCM 00  |
| 7   | 6/12/95 | BCL  | DWS  | DJM  | INCORP MMD-94-570 CA-0   |
| 6   | 7/25/94 | BCL  | MPW  | JWOC | INCORP DCR 90-001 CA-11  |
| 5   | 4/20/93 | BCL  | MRB  | JM   | REINCORP DCR 86-709, CA-23   |
| 4   | 3/31/93 | BCL  | MRB  | JCM  | INCORP MMD-92-553, CA-0  |
| 3   | 9/29/89 | MRB  | JM   | JMS  | INCORP DCR 86-709 CA ADDED NOTE 10 AND 11  |
| 2   | 2/24/87 | JDM  | PAL  | MAC  | ADDED P&ID LEGEND NOTE, CONT DWS COORD'S, INCORP ECA 99/112947F AND DCR 528, REMOVED DASH LINE FROM INSTR. |
| 1   | 6/23/86 | JDM  | VNK  | RRR  | INCORP ECA 99/115733A, CORRECTED DAMPER LOCATION & DAMPER NUMBER.  |
| 0   | 3/4/86  | DWS  | WES  | WFO  | ISSUED FOR OPERATIONS  |
| REV | DATE    | DSGN | CHKD | CE   | DESCRIPTION  |

**FPL ENERGY** Seabrook Station

CONTROL BUILDING AIR HANDLING  
MECHANICAL ROOM ELEVATION 75'-0"  
DETAIL

PID- 1-CBA-B20304





3  
DCR  
980004


**North Atlantic** Energy Service Corporation



PID- 1-CBA-B20305


[illegible]

NOTES :

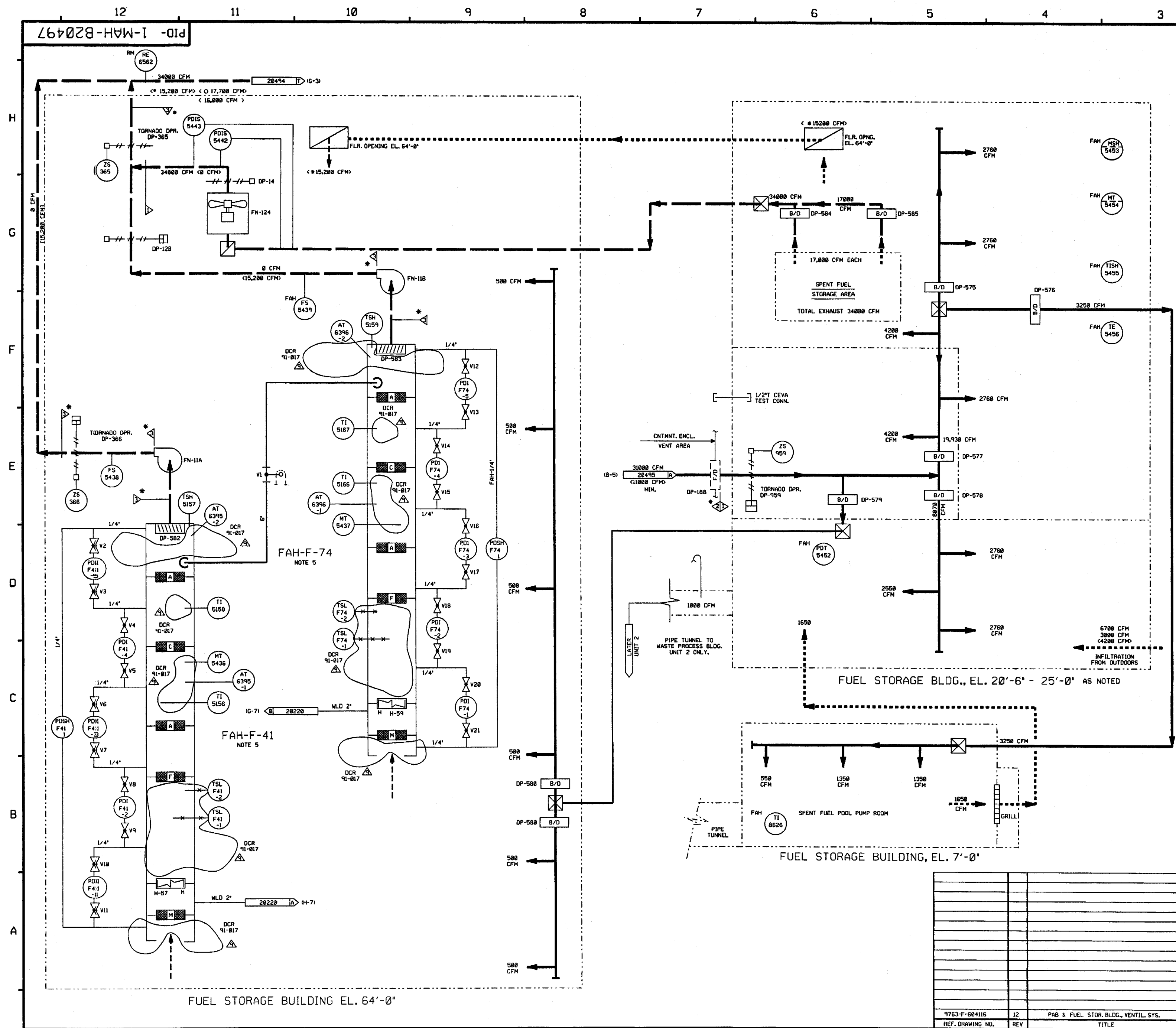
1. WORK THIS DRAWING WITH 20492, 20494 THRU 20496 & 20498 THRU 20508.
2. ALL HVAC, EQUIP, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX  
FAM ( FUEL STORAGE BLDG. AIR HANDLING ), UNLESS NOTED.
3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DRAWING 20494.
4.  ALL DUCTWORK, UNLESS NOTED.

6.  $\Delta$  INDICATES REVISION LEVEL.

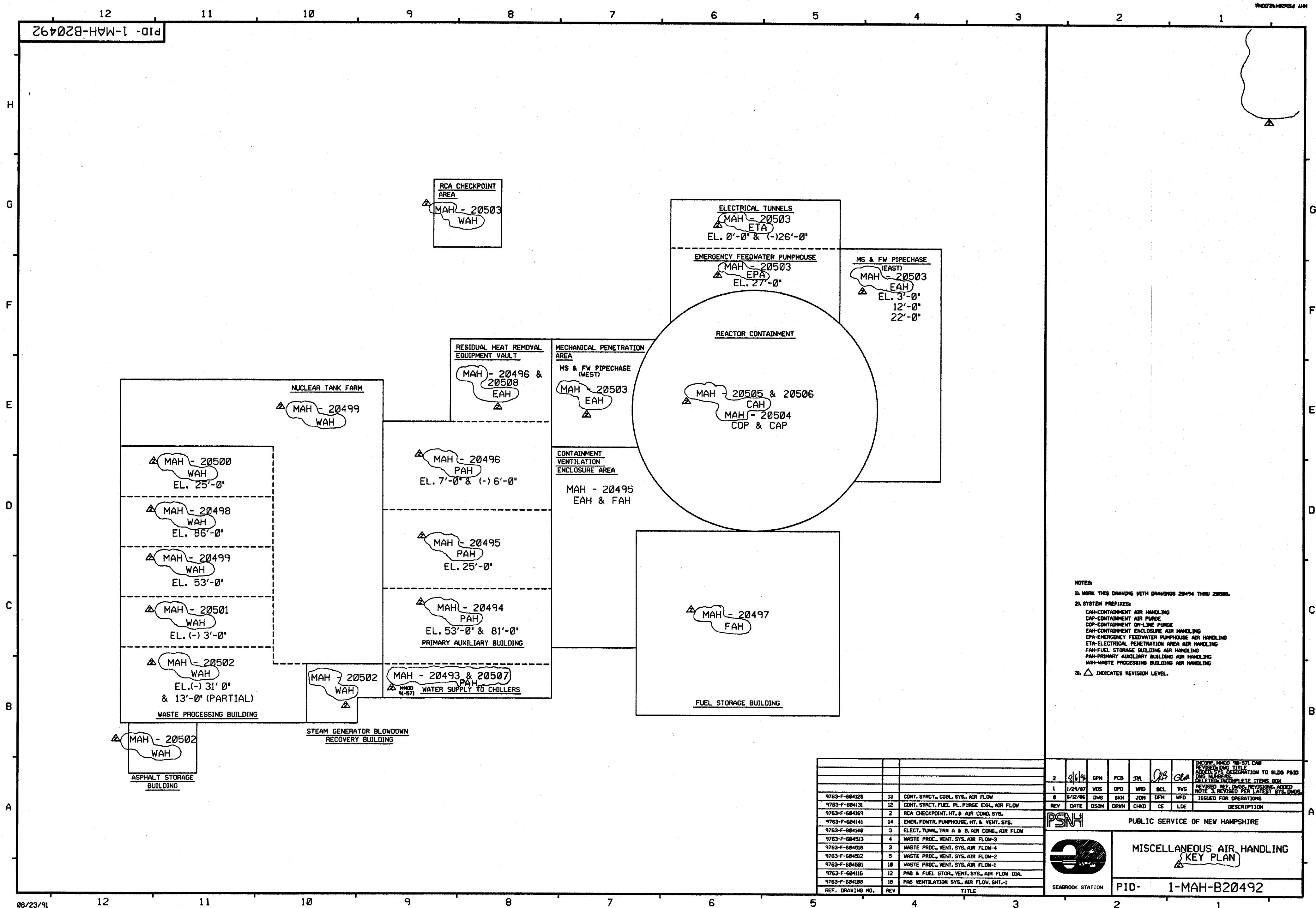
|     |          |          |       |               |               |     |                       |   |
|-----|----------|----------|-------|---------------|---------------|-----|-----------------------|---|
| 9   | 2/1/79   | BFS      | ---   | <del>ML</del> | <del>MB</del> | DWS | GPM                   | INCRDP DCR 91-017 DGN-8   |
| 8   | 5/16/79  | MB       | ---   | ---           | ---           | DWS | GPM                   | INCRDP MMKD 91-522 CAB  |
| 7   | 8/16/79  | GPM      | FCB   | JM            | MB            | DWS | IV                    | INCRDP DCR 86-554 CAB   |
| 6   | 12/17/79 | MB       | RMC   | JM            | DWS           | IV  | INCRDP DCR 87-373 CAB |   |
| 5   | 4/11/90  | HP       | FCB   | MRB           | APL           | DJM | INCRDP DCR 86-548 CAB |   |
| 4   | 4/27/91  | GPM      | PMC   | MRB           | SCL           | MAC | ---                   | INCRDP DCR 86-555 CA 9  |
| 3   | 2/24/87  | PAL      | RPO   | MPW           | SCL           | MAC | ---                   | ADDED CA 98/117840A, CLW, REF.<br>DWS, NOTE 6, PPS CANAL AND<br>CORRECTED DRAFTING ERRORS PER<br>UELC PAID INCRDP DCR-526 |
| 2   | 12/23/86 | JDM      | OPD   | PAL           | SCL           | RRC | ---                   | ADDED PAID LEGEND NOTE, COMNT, REF.<br>DWS, INCRDP CA 99/112947F  |
| 1   | 9/2/86   | JDM      | OPD   | MAP           | SCL           | RRC | ---                   | INCRDP CA 98/117840A  |
| 0   | 6/12/86  | DWS      | DSW   | JDM           | DFM           | WFD | ---                   | ISSUED FOR OPERATIONS INCRDP.<br>CA 99/112947F  |
| REV | DATE     | DESIGNED | DRAWN | CHKD          | CSE           | SE5 | DESCRIPTION           |   |



SEABROOK STATION      PID-      1-MAH-B20497

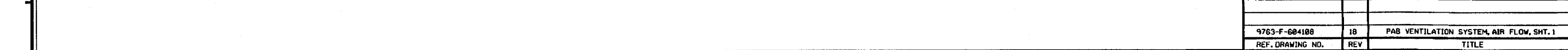




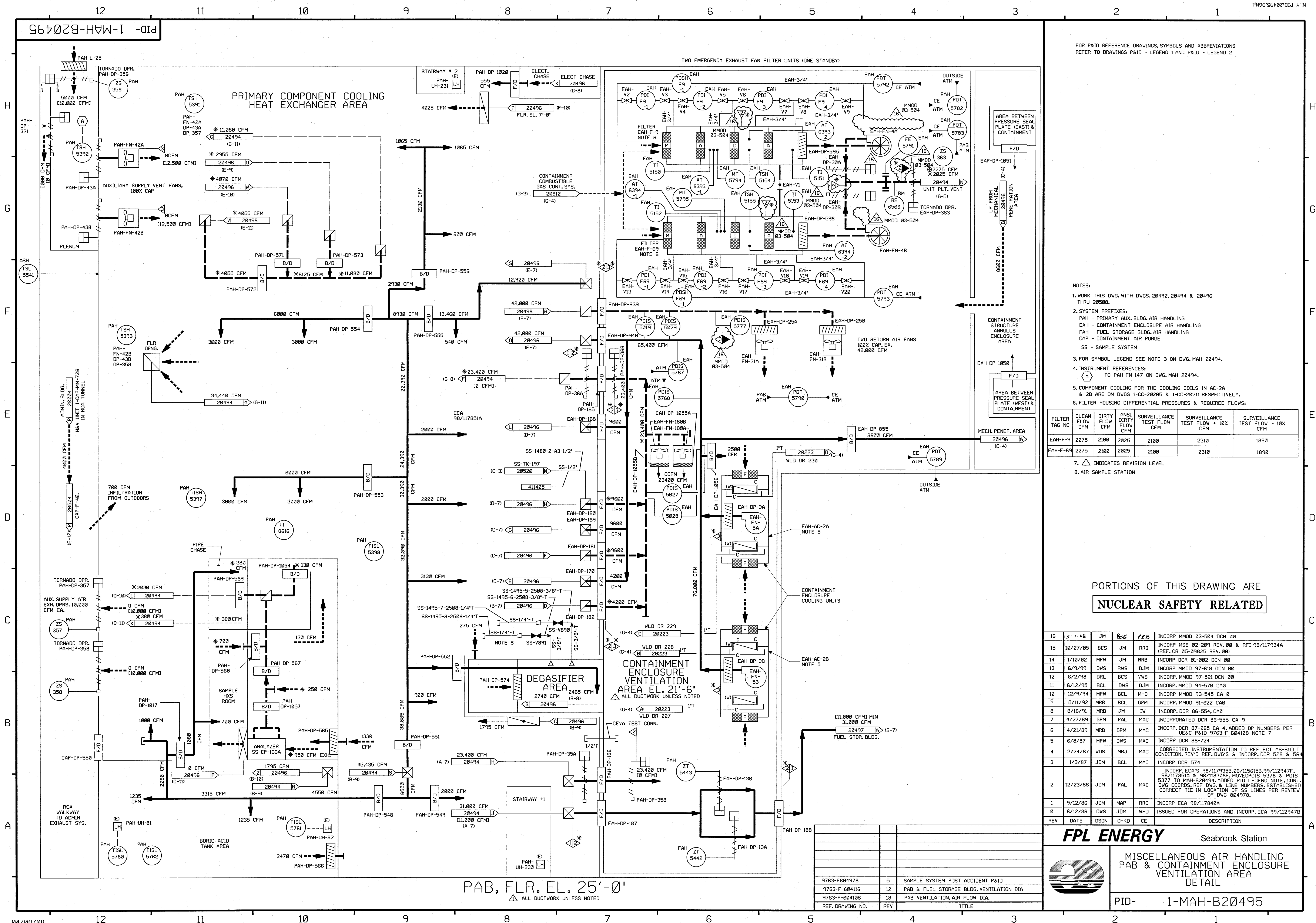


NOTES:  
1. WORK THIS DRAWING WITH DRAWINGS 20494 THRU 20508.  
2. SYSTEM PREFIXES:  
CAH-CONTAINMENT AIR HANDLING  
CAP-CONTAINMENT AIR PURGE  
COP-CONTAINMENT ON-LINE PURGE  
EAH-CONTAINMENT ENCLOSURE AIR HANDLING  
EPA-EMERGENCY FEEDWATER PUMPHOUSE AIR HANDLING  
ETA-ELECTRICAL PENETRATION AREA AIR HANDLING  
FAH-FUEL STORAGE BUILDING AIR HANDLING  
PAH-PRIMARY AUXILIARY BUILDING AIR HANDLING  
WAH-WASTE PROCESSING BUILDING AIR HANDLING  
3. Δ INDICATES REVISION LEVEL.

|                  |         |        |      |      |     |     |     |  |
|------------------|---------|--------|------|------|-----|-----|-----|--|
| 2                |         | 9/6/94 | DPH  | FCB  | JH  | QZ  | GLA | INCORP. M400 94-571 CAB<br>REVISION Dwg TITLE<br>ADDED SYS. DESIGNATION TO BLDG PABD<br>Dwg. M400 94-571 CAB<br>REVISION Dwg. TITLE<br>ADDED SYS. DESIGNATION TO BLDG PABD<br>Dwg. M400 94-571 CAB<br>REVISION Dwg. TITLE<br>ADDED SYS. DESIGNATION TO BLDG PABD |
| 1                | 1/24/07 | WDS    | OPD  | WFO  | BCL | VWS |     | REVISED PER DWS. REVISIONS ADDED<br>NOTE 3, REVISED PER LATEST SYS. DWS.   |
| 0                | 6/12/88 | DWS    | SKN  | JDM  | DFH | WFD |     | ISSUED FOR OPERATIONS  |
| REV              | DATE    | DSGN   | DRWN | CHKD | CE  | LDE |     | DESCRIPTION  |
| PSNH             |         |        |      |      |     |     |     | PUBLIC SERVICE OF NEW HAMPSHIRE  |
|                  |         |        |      |      |     |     |     | MISCELLANEOUS AIR HANDLING<br>KEY PLAN   |
| SEABROOK STATION |         |        |      |      |     |     |     | PID- 1-MAH-B20492  |
| REF. DRAWING NO. | REV     | TITLE  |      |      |     |     |     |  |



PID-1-MAH-B20495



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. 20492, 20494 & 20496 THRU 20508.
  2. SYSTEM PREFIXES:  
PAH - PRIMARY AUX. BLDG. AIR HANDLING  
EAH - CONTAINMENT ENCLOSURE AIR HANDLING  
FAH - FUEL STORAGE BLDG. AIR HANDLING  
CAP - CONTAINMENT AIR PURGE  
SS - SAMPLE SYSTEM
  3. FOR SYMBOL LEGEND SEE NOTE 3 ON DWG. MAH 20494.
  4. INSTRUMENT REFERENCES:  
A TO PAH-FN-147 ON DWG. MAH 20494.
  5. COMPONENT COOLING FOR THE COOLING COILS IN AC-2A & 2B ARE ON DWGS 1-CC-20205 & 1-CC-20211 RESPECTIVELY.
  6. FILTER HOUSING DIFFERENTIAL PRESSURES & REQUIRED FLOWS:

| FILTER TAG NO | CLEAN FLOW CFM | DIRTY FLOW CFM | SURVEILLANCE TEST FLOW CFM | SURVEILLANCE TEST FLOW + 10% CFM | SURVEILLANCE TEST FLOW - 10% CFM |
|---------------|----------------|----------------|----------------------------|----------------------------------|----------------------------------|
| EAH-F-9       | 2275           | 2100           | 2025                       | 2310                             | 1890                             |
| EAH-F-69      | 2275           | 2100           | 2025                       | 2310                             | 1890                             |

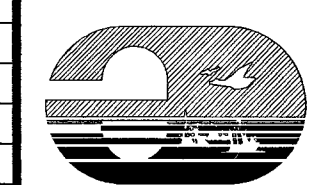
7. Δ INDICATES REVISION LEVEL  
8. AIR SAMPLE STATION

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

| 16  | 5-7-98   | JM   | BS   | IPB | INCOMP MMD 03-504 DCN 00  |
|-----|----------|------|------|-----|---|
| 15  | 10/27/05 | BCS  | JM   | RRB | INCOMP MSE 02-209 REV. 00 & RF1 98/117934A (REF. CR 05-09825 REV. 00)   |
| 14  | 1/10/02  | MPW  | JM   | RRB | INCOMP DCR 01-002 DCN 00  |
| 13  | 6/4/99   | DWS  | RWS  | DJM | INCOMP MMD 97-618 DCN 00  |
| 12  | 6/2/98   | DRL  | BCS  | VWS | INCOMP. MMD 97-521 DCN 00   |
| 11  | 6/12/95  | BCL  | DWS  | DJM | INCOMP. MMD 94-570 CA0  |
| 10  | 12/9/94  | MPW  | BCL  | MHO | INCOMP. MMD 93-545 CA 0   |
| 9   | 5/11/92  | MRB  | BCL  | GPM | INCOMP. MMD 91-622 CA0  |
| 8   | 8/16/91  | MRB  | JM   | IW  | INCOMP. DCR 86-554, CA0   |
| 7   | 4/27/89  | GPM  | PAL  | MAC | INCORPORATED DCR 86-555 CA 9  |
| 6   | 4/21/89  | MRB  | GPM  | MAC | INCOMP. DCR 87-265 CA 4; ADDED DP NUMBERS PER UEC. P&ID 9763-F-604108 NOTE 7  |
| 5   | 6/8/87   | MPW  | DWS  | MAC | INCOMP. DCR 86-724  |
| 4   | 2/24/87  | WDS  | MRJ  | MAC | CORRECTED INSTRUMENTATION TO REFLECT AS-BUILT CONDITION. REV'D REF. DWG'S & INCORP. DCR 520 & 564   |
| 3   | 1/3/87   | JDM  | BCL  | MAC | INCOMP. DCR 87-574  |
| 2   | 12/23/86 | JDM  | PAL  | MAC | INCOMP. ECA'S 98/117935B, 06/115615B, 99/112947F, 98/117951A & 98/118306F. MOVED PDIS 5378 & PDIS 5377 TO MAH-B20494. ADDED PID LEGEND NOTE, CONT. DWG COORDS, REF DWG. & LINE NUMBERS. ESTABLISHED CORRECT TIE-IN LOCATION OF SS LINES PER REVIEW OF DWG 804978. |
| 1   | 9/12/85  | JDM  | MAP  | RRR | INCOMP ECA 98/117840A   |
| 0   | 6/12/85  | DWS  | JDM  | WFO | ISSUED FOR OPERATIONS AND INCORP. ECA 99/112947B  |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION   |

**FPL ENERGY**

Seabrook Station



MISCELLANEOUS AIR HANDLING  
PAB & CONTAINMENT ENCLOSURE  
VENTILATION AREA  
DETAIL

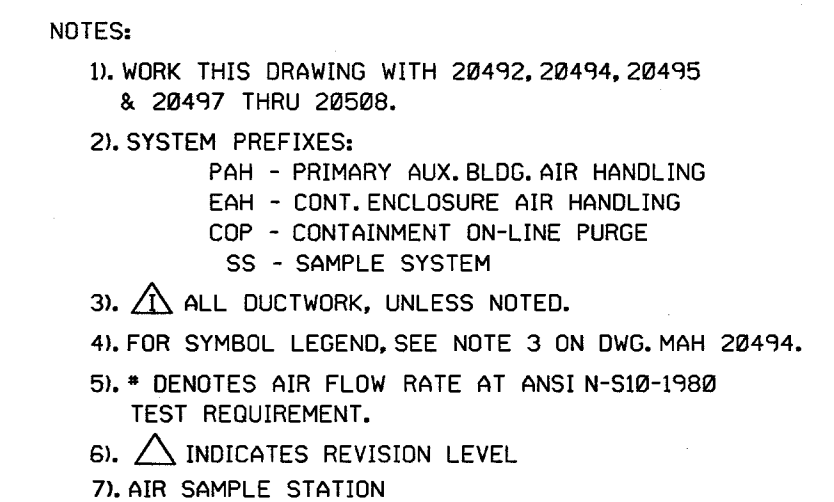
PID- 1-MAH-B20495

| 9763-F804978     | 5   | SAMPLE SYSTEM POST ACCIDENT P&ID         |
|------------------|-----|--|
| 9763-F-604116    | 12  | PAB & FUEL STORAGE BLDG. VENTILATION DIA |
| 9763-F-604108    | 18  | PAB VENTILATION, AIR FLOW DIA.           |
| REF. DRAWING NO. | REV | TITLE                                    |

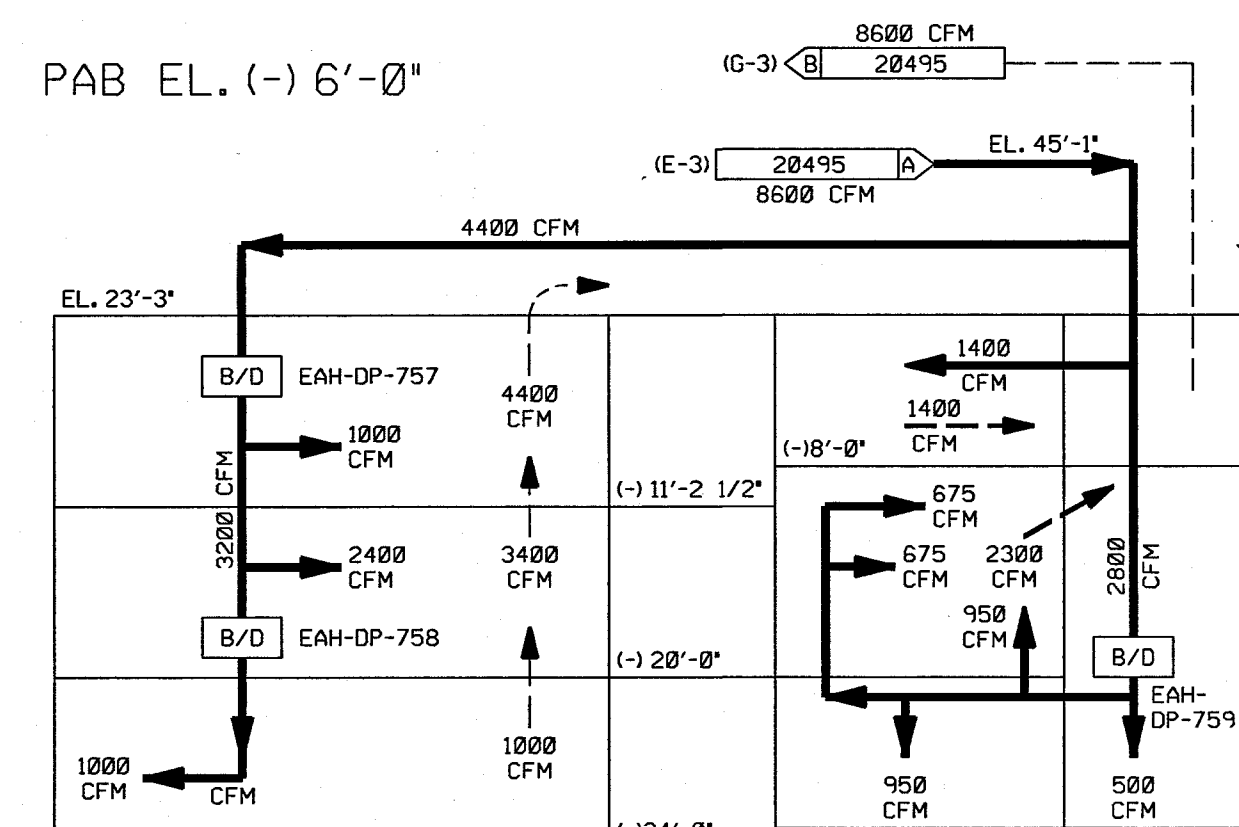
PAB, FLR. EL. 25'-0"  
ALL DUCTWORK UNLESS NOTED



RHR & CS  
EQUIPMENT  
VAULT



PAB EL. (-) 6'-Ø'

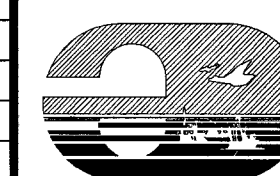


MECHANICAL PENETRATION AREA

3\* ALL DUCTWORK

**FPL ENERGY**

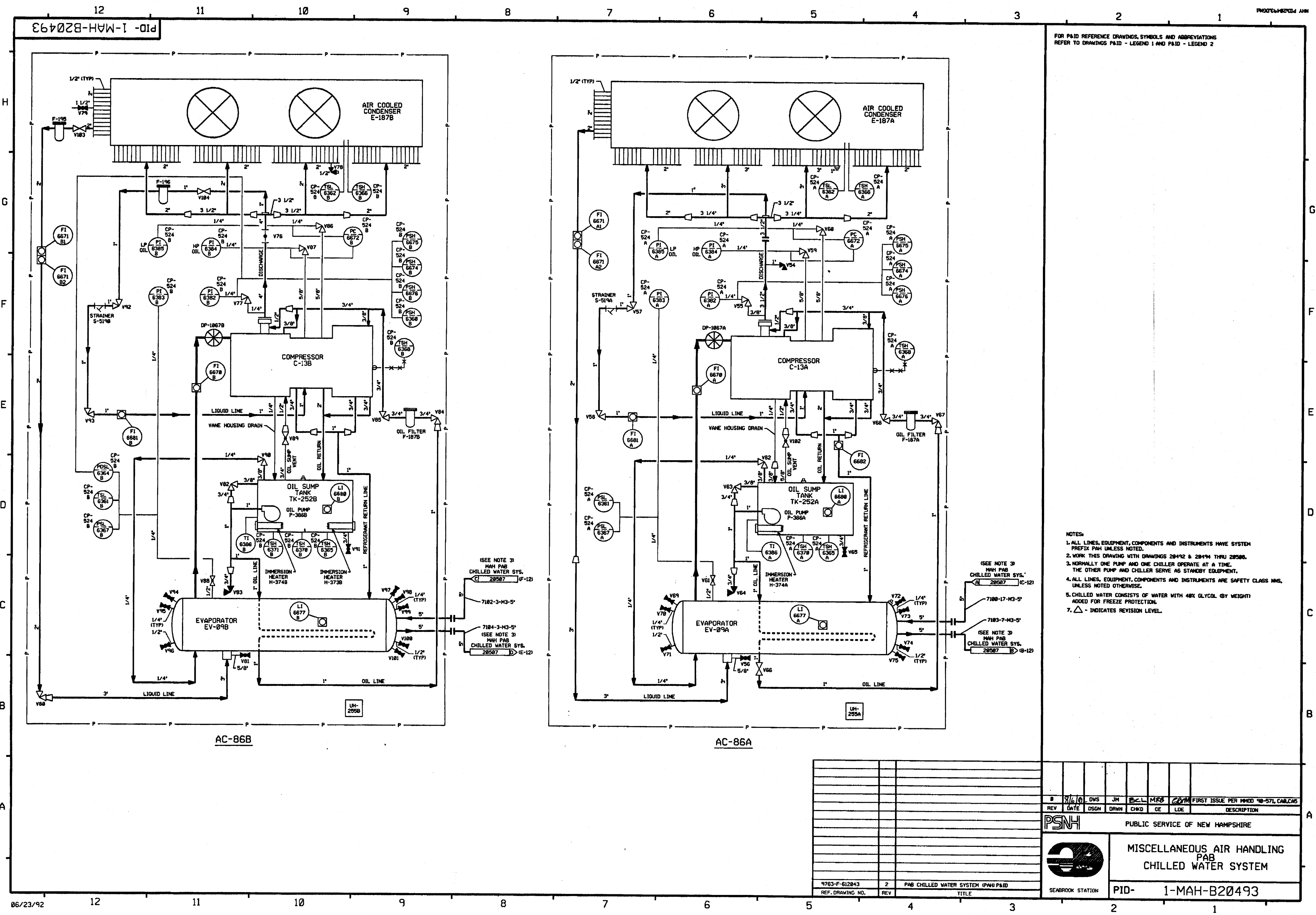
Seabrook Station



MISCELLANEOUS AIR HANDLING  
PAB & RHR VAULTS DETAIL

|      |              |
|------|--------------|
| PID- | 1-MAH-B20496 |
|------|--------------|

|                  |     |  |
|------------------|-----|--|
|                  |     |  |
|                  |     |  |
|                  |     |  |
|                  |     |  |
|                  |     |  |
|                  |     |  |
| 9763-F-804959    | 4   | FLOOR & EQUIP DRAIN SYSTEM PAB P&ID SHT 2    |
| 9763-F-604116    | 12  | PAB & FUEL STOR. VENT. SYS., AIR FLOW DIAGRA |
| REF, DRAWING NO. | REV | TITLE  |

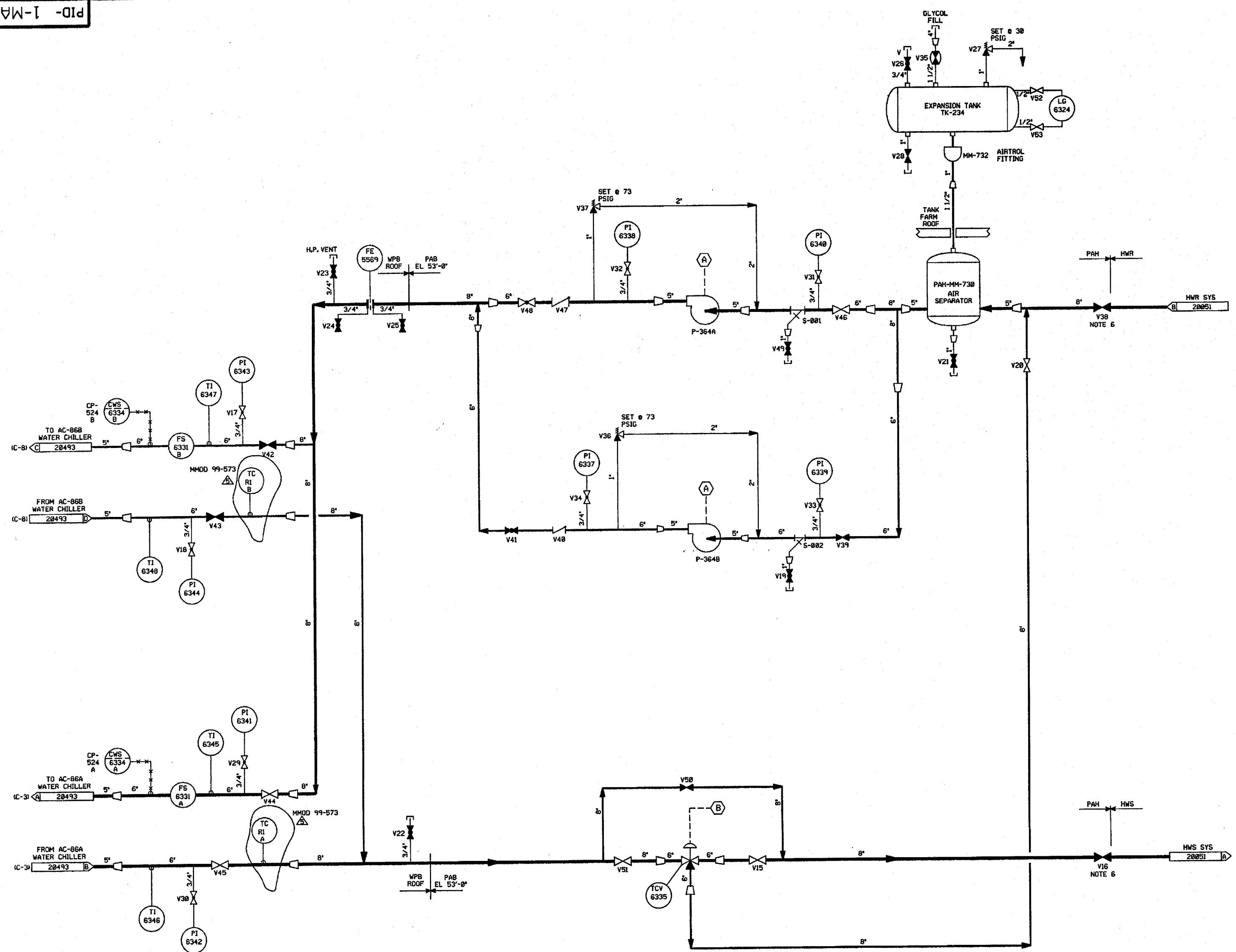


FOR PAID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS PAID - LEGEND 1 AND PAID - LEGEND 2



PID-1-MAH-B20507

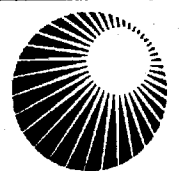
FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2



- NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX P&ID UNLESS NOTED.
  2. WORK THIS DRAWING WITH DRAWINGS 20492, 20493 AND 20494 THRU 20506 & 20508.
  3. NORMALLY ONE PUMP AND ONE CHILLER SERVE AS STANDBY EQUIPMENT.
  4. ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS UNLESS NOTED OTHERWISE.
  5. CHILLED WATER CONSISTS OF WATER WITH 40% GLYCOL (BY WEIGHT) ADDED FOR FREEZE PROTECTION.
  6. VALVES NORMALLY CLOSED, USED FOR SUMMER OPERATION ONLY.
  7.  $\Delta$  - INDICATES REVISION LEVEL.

8. INSTRUMENT REFERENCES:
- (A) FROM CP-587
  - (B) FROM TIC-6335 ON DWG 20494

|     |         |      |      |      |     |     |   |
|-----|---------|------|------|------|-----|-----|---|
| 5   | 7/24/82 | BCS  | —    | DWS  | JWB | MAC | INCORP. MMOD 99-573 DCN-80  |
| 4   | 8/6/92  | MRB  | FCB  | JH   | BCL | GRM | INCORP. MMOD 98-571, CAB REVISED NOTE 4 PER NHY ENG DESIGN STD 31700 SEC 3.0 CLARIFIED LINE SIZE ON S-001   |
| 3   | 6/8/87  | JDM  | TAK  | DWS  | BCL | MAC | VALVES V42 & V43 SHOWN CLOSED, VALVES V44 & V45 SHOWN OPEN, INCORP. ECA 99/115697C APPROVED CHANGE ITEM 1 PER FIELD COMPLETION OF ILL P&ID-504  |
| 2   | 3/6/87  | WDS  | TAK  | MRJ  | BCL | RRC | UPDATE IMPULSE DESIGNATION BETWEEN TIC 6335 & TCV 6335, ADDED NIPPLE & CAP ON VLV5 V25 & V28 PER ERECTION ISO'S, ADDED P&ID LEGEND NOTE, REVISED REF DWG REVISION NO. REVISED CHILLER ARRANGEMENT PER CHANGE ITEM $\Delta$ , CORRECTED DRAFTING ERRORS. |
| 1   | 1/12/86 | JDM  | DWS  | HAP  | BCL | RRC | INCORP. ECA 99/117512A & ECA 99/117529A   |
| 0   | 6/13/86 | WES  | WES  | JDM  | DFM | WFD | ISSUED FOR OPERATIONS AND INCORP. ECA'S 86/114689A & 13/882242A   |
| REV | DATE    | DSGN | DRWN | CHKD | CDE | SES | DESCRIPTION   |

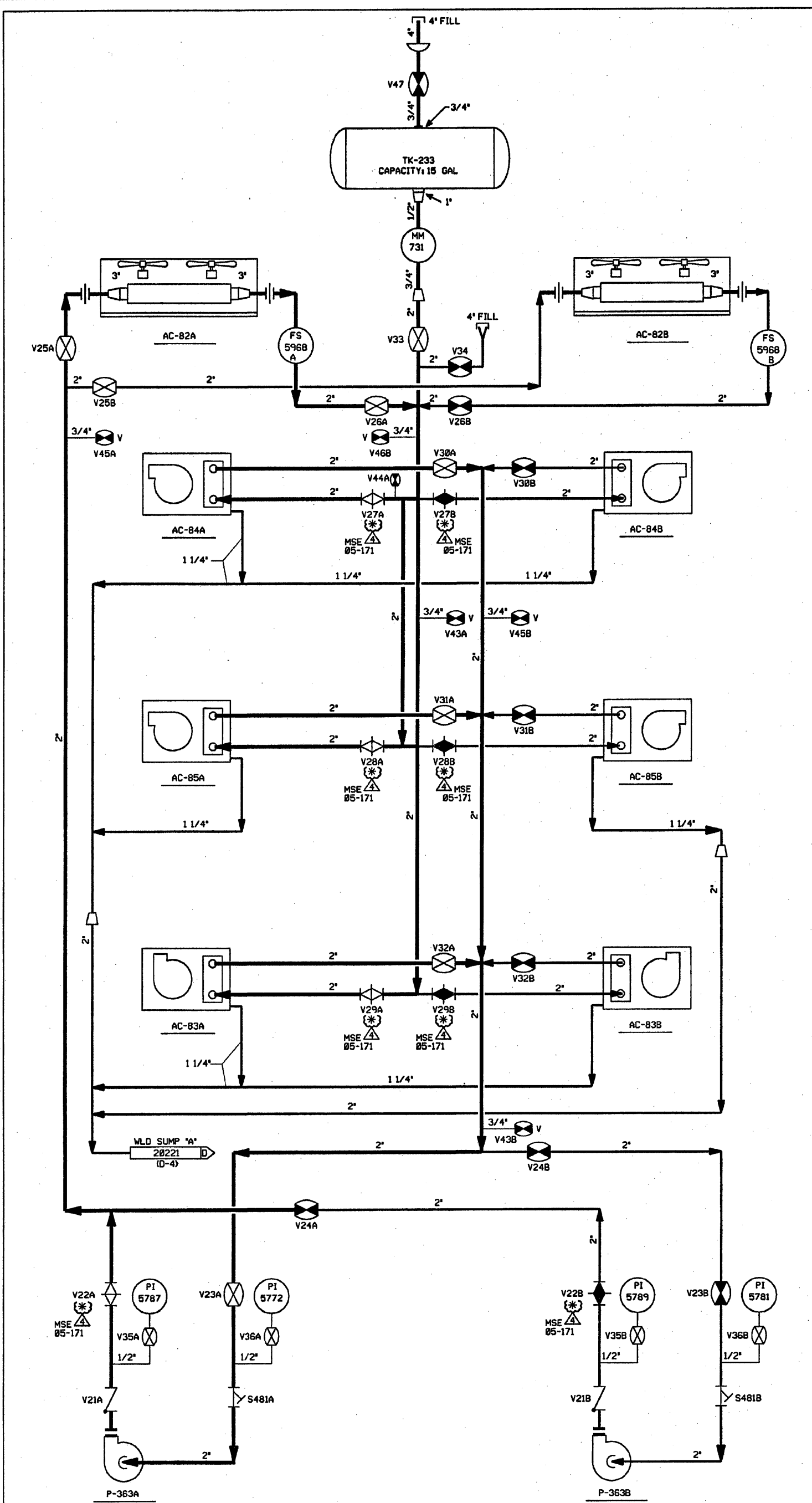
**North Atlantic** Energy Service Corporation

MISCELLANEOUS AIR HANDLING  
PAB  
CHILLED WATER SYSTEM

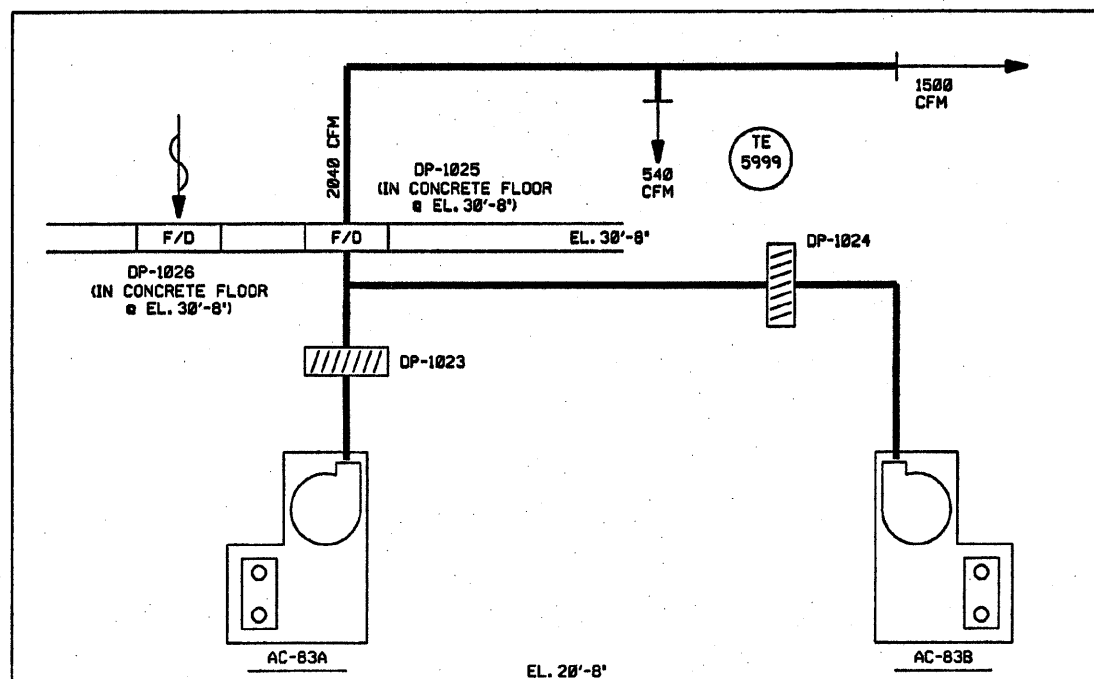
PID-1-MAH-B20507

|                  |     |                                 |
|------------------|-----|---------------------------------|
| 9763-F-612843    | 2   | PAB CHILLED WATER SYSTEM (P&ID) |
| REF. DRAWING NO. | REV | TITLE                           |

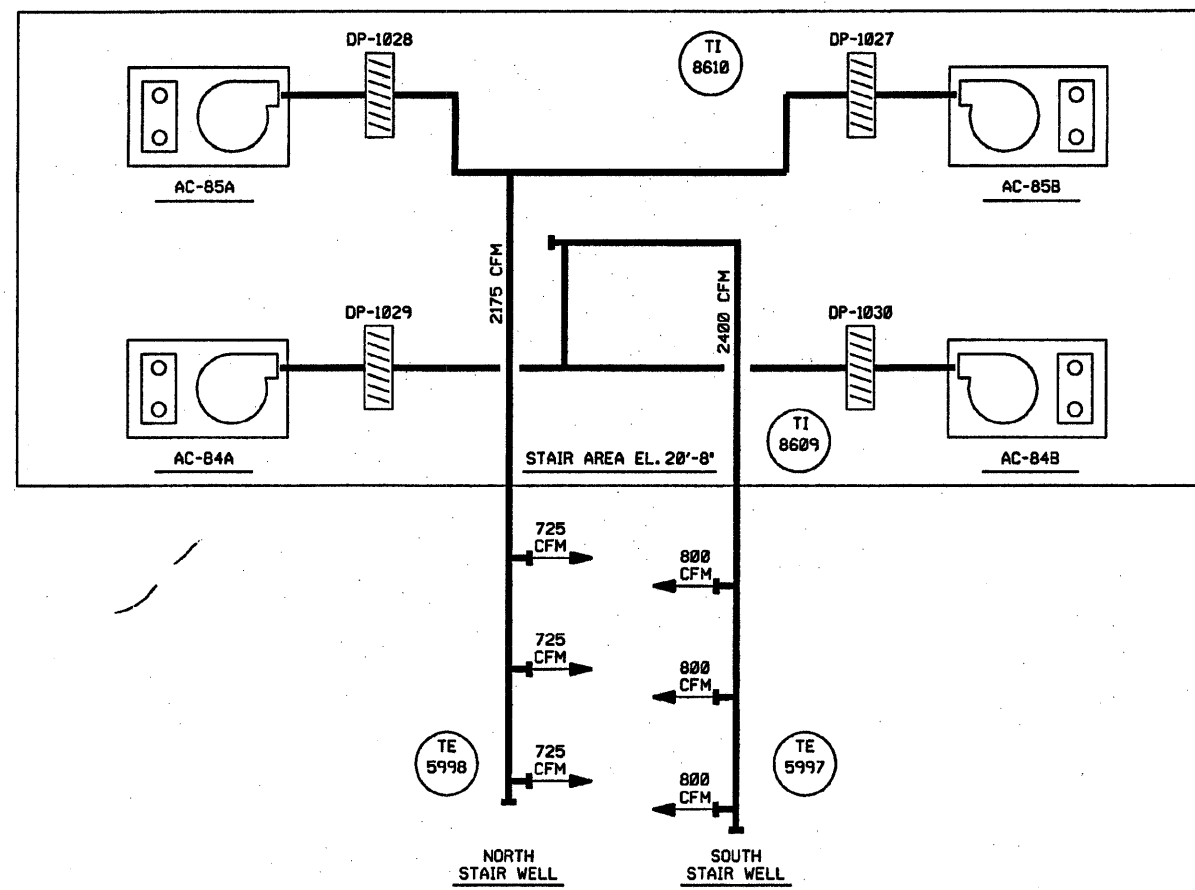
PID-1-MAH-B20508



GLYCOL FLOW DIAGRAM



ELECTRICAL AREA



AIR FLOW DIAGRAM

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 20492 & 20494 THRU 20507.
  2. ALL PIPING, VALVES, EQUIPMENT, AND INSTRUMENTS ARE SYSTEM PREFIX "EAM" UNLESS OTHERWISE NOTED.
  3. ALL PIPING, VALVES, EQUIPMENT, AND INSTRUMENTS ARE SAFETY CLASS NNS, UNLESS NOTED OTHERWISE.
  4.  $\Delta$  - INDICATES REVISION LEVEL.
  5. \* THESE VALVES ARE SUBJECT TO A PART SUBSTITUTION AUTHORIZED BY 05MSE171. VALVE SYMBOL MAY NOT REFLECT INSTALLED VALVE TYPE. DRAWING UPDATES WILL BE MADE UPON RECEIPT OF FORM WH 54F.

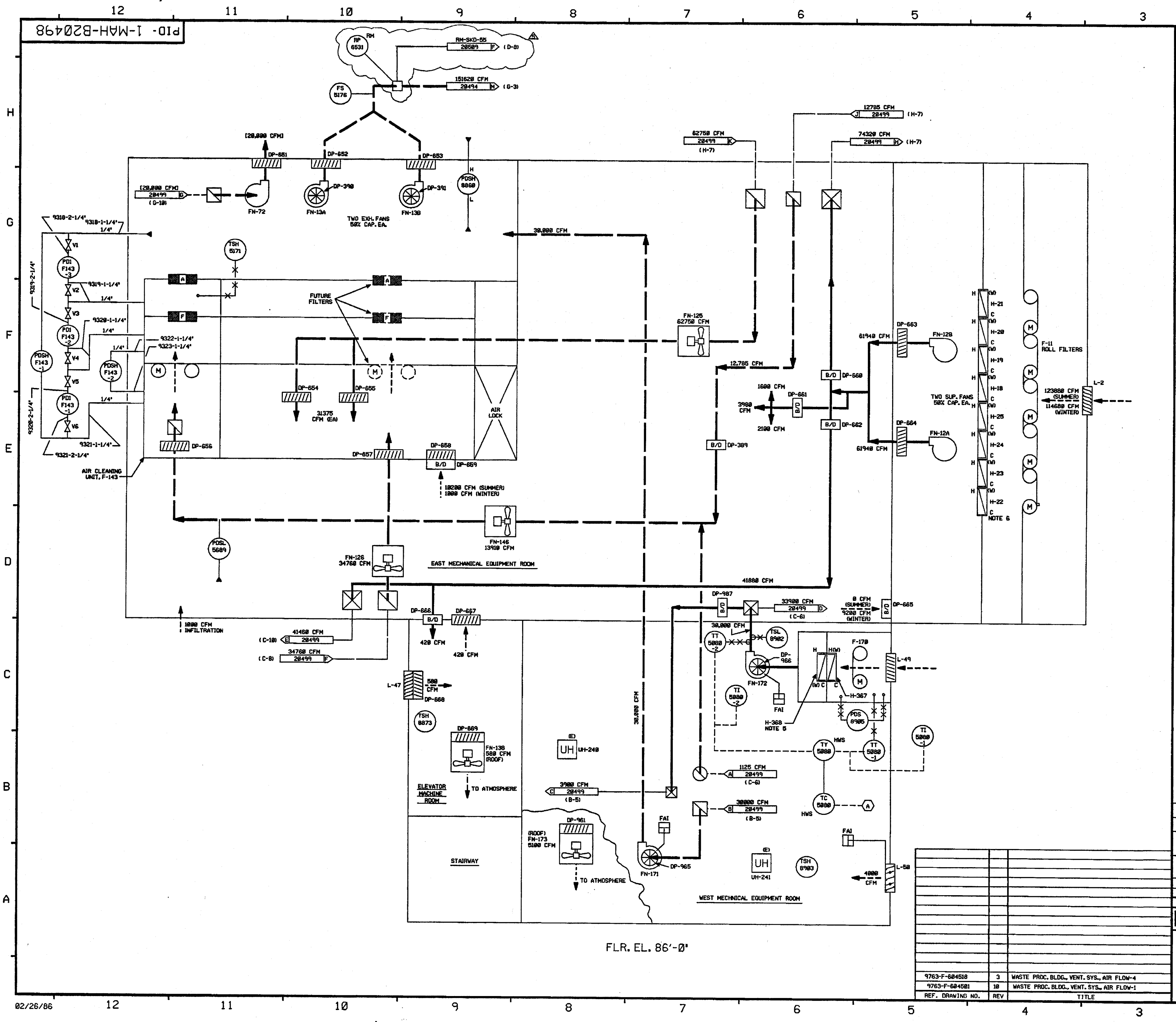
| REV | DATE    | DSGN | CHKD | CE  | DESCRIPTION  |
|-----|---------|------|------|-----|--|
| 4   | 2-5-08  | JM   | QPS  | REB | INCORP MSE 05-171 REV. 00                                  |
| 3   | 1/22/91 | MRB  | JM   | DJM | INCORP. ECA 06/117754A<br>REVISED NOTE 3                   |
| 2   | 3/16/87 | DPO  | MRJ  | BCL | ADDED 1500 CFM DESIGNATION                                 |
| 1   | 2/24/87 | WDS  | PAL  | BCL | ADDED NOTE 4, REVISED REF DWG<br>REVISION, INCORP DCR 520. |
| 0   | 6/12/86 | JDM  | DWS  | DFM | ISSUED FOR OPERATIONS                                      |

**FPL ENERGY** Seabrook Station

GLYCOL, AIR FLOW DIAGRAM  
AC SYSTEM  
ELECTRICAL VAULT & STAIRS

PID- 1-MAH-B20508

| REF. DRAWING NO. | REV | TITLE   |
|------------------|-----|---|
| 9763-F-612041    | 3   | GLYCOL, AIR FLOW DIAG. AC SYST. ELECT. VAULT & STAIRS |



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 DRAWING WITH 28492, 28494 THRU 28497 & 28499 THRU 28506.
  - 2) ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX WAH (WASTE PROCESSING BLDG. AIR HANDLING), UNLESS NOTED.
  - 3) FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. B28494.
  - 4) INSTRUMENT REFERENCE  
(A) TO HWS-TCV-5080 ON DWG. H-28050.
  - 5) H-367 IS LOCATED ABOVE H-368 IN FLENN FOR HEATER PIPING SEE DRAWING H-W-28050.
  - 6) H-18 THRU H-25 HEATER PIPING SEE DRAWING H-W-28050.
  - 7) ALL DUCTWORK, UNLESS NOTED.
  - 8) FILTER HOUSING DIFFERENTIAL PRESSURES & REQUIRED FLOWS:


| FILTER TAG NO. | CLEAN FLOW CFM | DIRTY FLOW CFM | ANSI DIRTY FLOW CFM | SURVEILLANCE TEST FLOW CFM | SURVEILLANCE TEST FLOW +10% CFM | SURVEILLANCE TEST FLOW -10% CFM |
|----------------|----------------|----------------|---------------------|----------------------------|---------------------------------|---------------------------------|
| WAH-F-143      | 15200          | 14000          | 13300               | 14200                      | 15620                           | 12710                           |

9) Δ INDICATES REVISION LEVEL.  
10) UNLESS SPECIFIED ALL LINE NUMBERS ARE SPEC 236-11.

|     |          |      |      |      |     |     |   |
|-----|----------|------|------|------|-----|-----|---|
| 5   | 8/2/88   | MPW  | JM   | BCL  | DWS | MAC | REVISED INSTR. TIE-INS AND ADDED NEW PAID PER H-586805.   |
| 4   | 4/9/87   | DAP  | HWM  | LFC  | BCL | MAC | REISSUED TO SOLVE PREVIOUS REV 3 SIGNOFF DATE ERROR.  |
| 3   | 3/13/87  | HRJ  | OPD  | DWS  | BCL | RRC | REVISED INSTR. SYMBOL, AND TIE-IN LOC. CORRECTED DRAFTING ERRORS. REVISED NOTES 4 & 7, ADDED NOTE 9 & 10, INCORP. ECA 99-1129477. |
| 2   | 12/23/86 | JDM  | TAK  | PAL  | MPW | RRC | CORRECTED FAN I.D. NUMBER, ADDED PAID LEGEND NOTE, ADDED CONTINUATION DWG & ECA 112286A.  |
| 1   | 9/2/86   | MAP  | WES  | JDM  | VNK | RRC | INCORP. ECA 99/117636A.   |
| 0   | 8/28/86  | JDM  | SKN  | DWS  | OPH | WFO | ISSUED FOR OPERATIONS.  |
| REV | DATE     | DSGN | DRWN | CHKD | CE  | LDE | DESCRIPTION   |



PUBLIC SERVICE OF NEW HAMPSHIRE



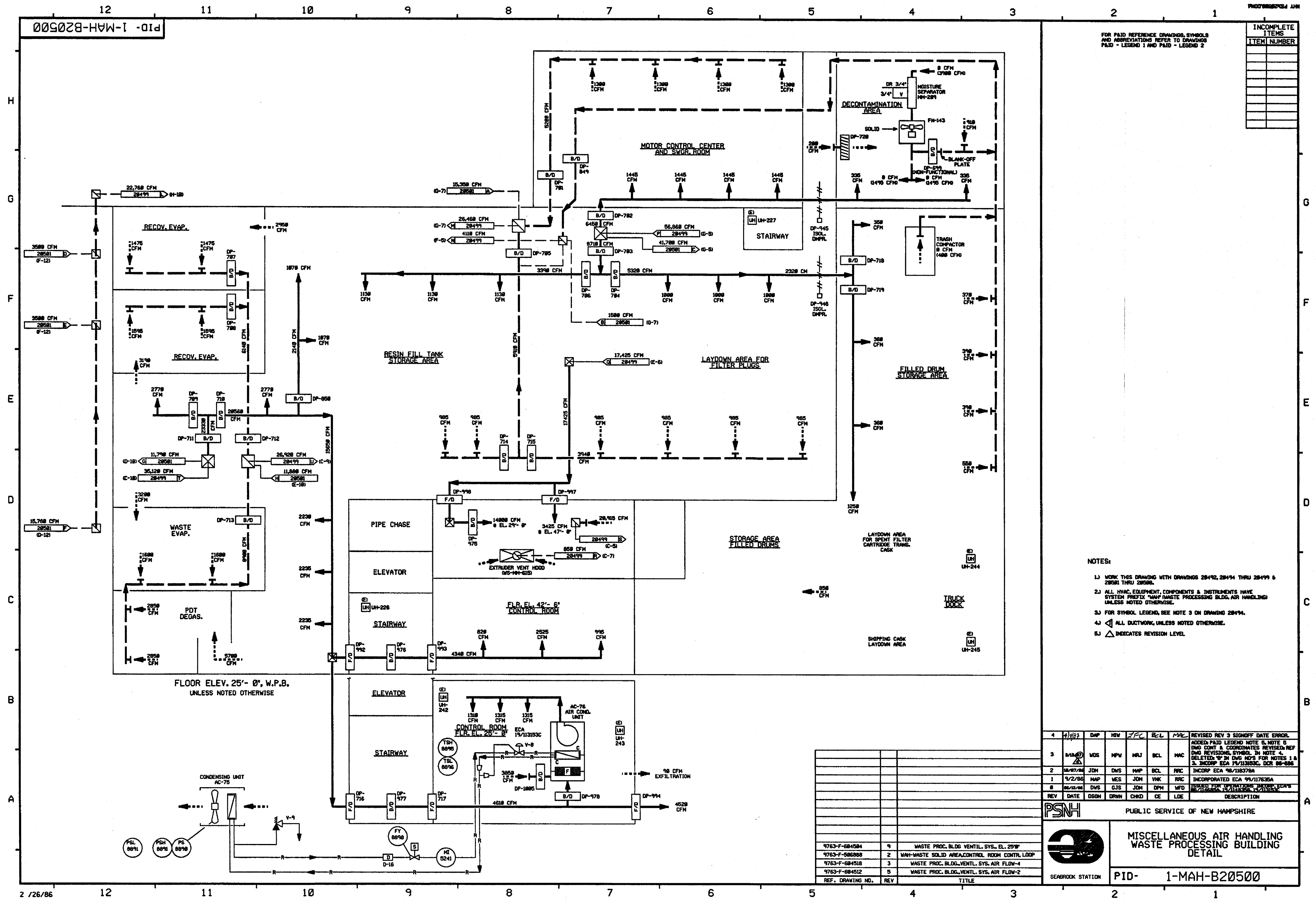
SEABROOK STATION

MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID- 1-MAH-B20498

| REF. DRAWING NO. | REV | TITLE                                     |
|------------------|-----|---|
| 9763-F-604518    | 3   | WASTE PROC. BLDG., VENT. SYS., AIR FLOW-4 |
| 9763-F-604501    | 10  | WASTE PROC. BLDG., VENT. SYS., AIR FLOW-1 |






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 DRAWING WITH DRAWINGS 28492, 28494 THRU 28499 & 28501 THRU 28508.
  - 2) ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX "WMP" WASTE PROCESSING BLDG. AIR HANDLING UNLESS NOTED OTHERWISE.
  - 3) FOR SYMBOL LEGEND, SEE NOTE 3 ON DRAWING 28494.
  - 4)  $\Delta$  ALL DUCTWORK UNLESS NOTED OTHERWISE.
  - 5)  $\Delta$  INDICATES REVISION LEVEL.

| REV | DATE     | DSGN | DRWN | CHKD | CE  | LOE | DESCRIPTION  |
|-----|----------|------|------|------|-----|-----|--|
| 1   | 4/10/81  | DAP  | HW   | ZFC  | R-L | MAL | REVISED REV 3 SIGNOFF DATE ERROR.  |
| 3   | 3/18/82  | WDS  | MPV  | HLJ  | BCL | MAC | ADDED PAID LEGEND NOTE 5, NOTE 6 Dwg CONT. & COORDINATES REVISION REF Dwg REVISIONS, SYMBOL IN NOTE 4, DELETED "P" IN Dwg NO'S FOR NOTES 1 & 2, INCORP. ECA 99/11/13/35A, DCR 88-586 |
| 2   | 10/27/82 | JDM  | DWS  | MAP  | BCL | RRR | INCORP. ECA 98/11/13/378A  |
| 1   | 9/2/88   | MAP  | MES  | JDM  | VNK | RRR | INCORPORATED ECA 99/11/13/35A  |
| 8   | 88/12/28 | DWS  | GJS  | JDM  | DPH | WFO | ISSUED FOR OPERATIONS "WASTE" ECA 98/11/13/35A, 10/11/13/35A, 10/11/13/35A   |



PUBLIC SERVICE OF NEW HAMPSHIRE



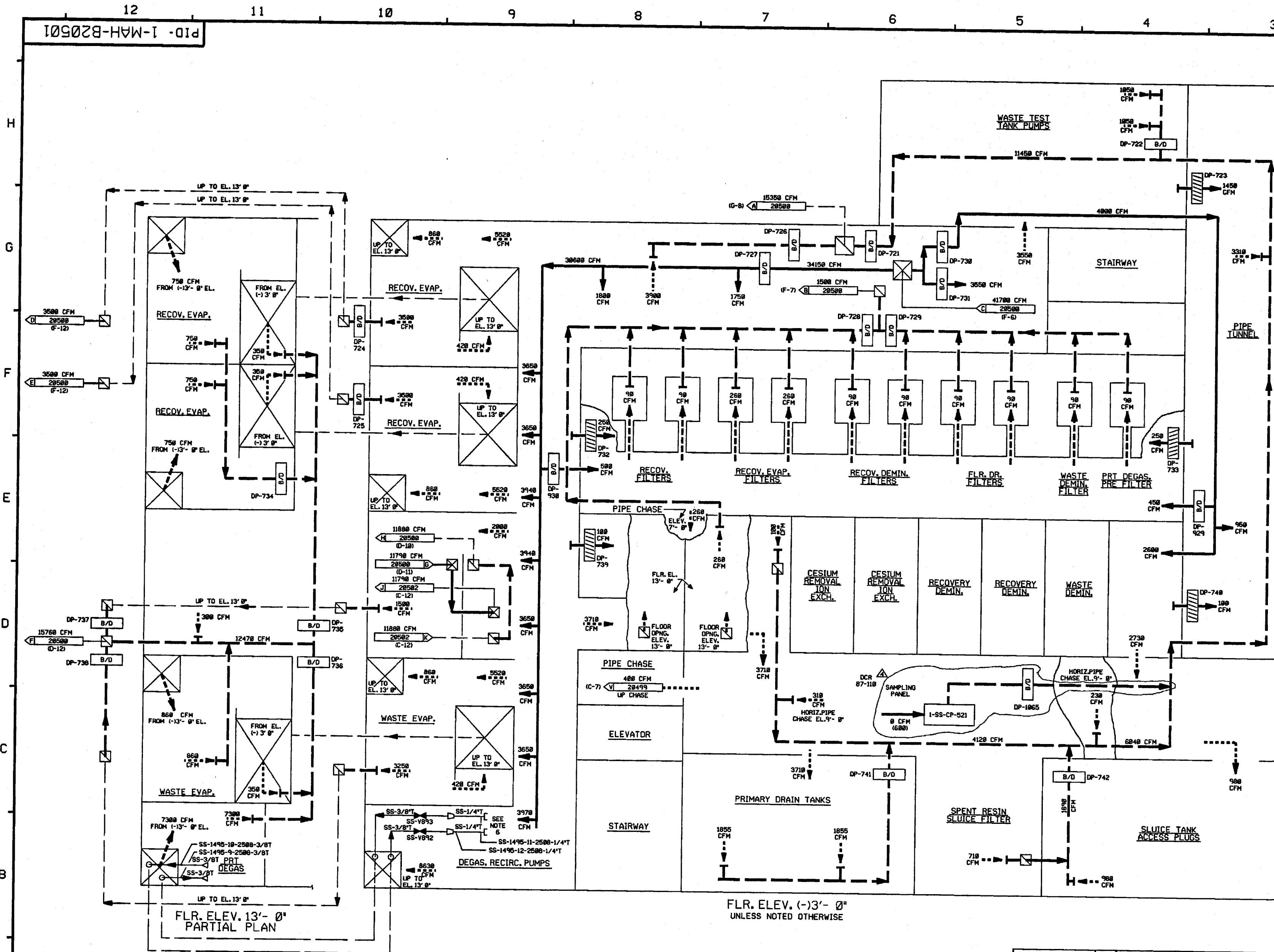
SEABROOK STATION

MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL

PID- 1-MAH-B20500

| REF. DRAWING NO. | REV | TITLE   |
|------------------|-----|---|
| 9763-F-684584    | 9   | WASTE PROC. BLDG. VENTIL. SYS. EL. 25'W       |
| 9763-F-586888    | 2   | WMP-WASTE SOLID AREA CONTROL ROOM CONTR. LOOP |
| 9763-F-684518    | 3   | WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-1     |
| 9763-F-684512    | 5   | WASTE PROC. BLDG. VENTIL. SYS. AIR FLOW-2     |





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 DRAWING WITH DRAWINGS 20492, 20494 THRU 20500 & 20502 THRU 20508.
  - 2) ALL HVAC EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX 'MAH' (WASTE PROCESSING BUILDING AIR HANDLING), UNLESS NOTED OTHERWISE.
  - 3) FOR SYMBOL LEGEND SEE NOTE 3 ON DRAWING 20494.
  - 4) ALL DUCTWORK, UNLESS NOTED OTHERWISE.
  - 5) INDICATES REVISION LEVEL.
  - 6) AIR SAMPLE STATION.

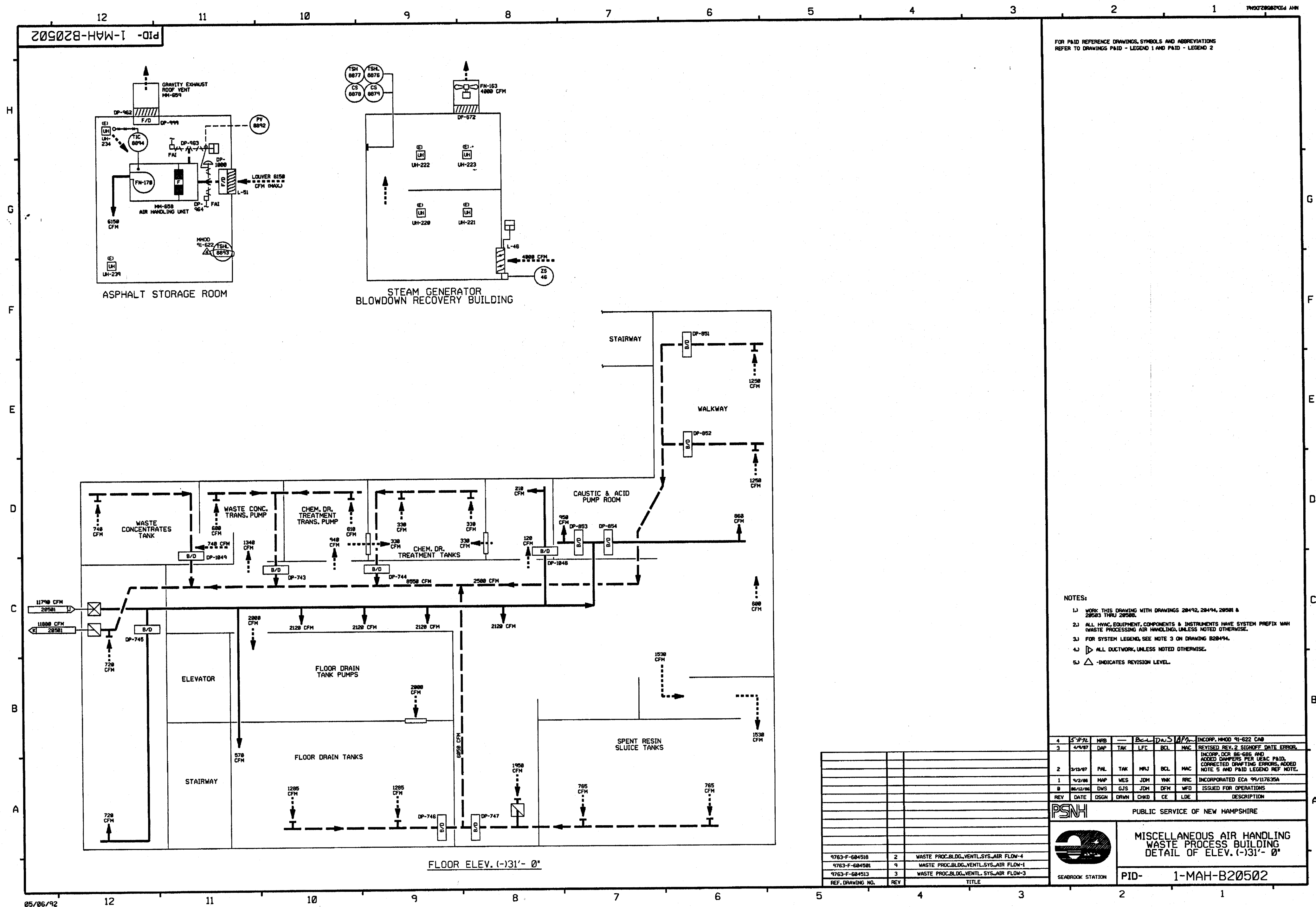
|     |         |      |      |      |     |     |  |
|-----|---------|------|------|------|-----|-----|--|
| 4   | 10/2/87 | MRB  | RMC  | PAL  | GPM | LAL | INCORPORATED DCR 87-118 CA 11  |
| 3   | 4/2/85  | MRB  | FCB  | GPM  | PAL | MAC | INCORPORATED DCR 87-265 CA 4   |
| 2   | 4/9/87  | DAP  | TAK  | LFC  | BCL | MAC | REVISED REV. 1 SIGNOFF DATE ERROR                                    |
| 1   | 3-13-87 | MRJ  | GJS  | OPD  | BCL | MAC | ADDED CONTINUATION FLAG COORD'S AND NOTES, REVISED AIR FLOW PER UAC. |
| 0   | 6/12/85 | DWS  | GJS  | JDW  | DLH | WFD | ISSUED FOR OPERATIONS  |
| REV | DATE    | DSGN | DRWN | CHKD | CE  | LDE | DESCRIPTION  |

PSNH  
PUBLIC SERVICE OF NEW HAMPSHIRE

MISCELLANEOUS AIR HANDLING  
WASTE PROCESSING BUILDING  
DETAIL



9763-F-604513 3 WASTE PROC. BLDG. VENTL. SYS. AIR FLOW-3  
REF. DRAWING NO. REV TITLE

SEABROOK STATION PID-1-MAH-B20501



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 28492, 28494, 28501 & 28503 THRU 28508.
2. ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX WAA (WASTE PROCESSING AIR HANDLING), UNLESS NOTED OTHERWISE.
3. FOR SYSTEM LEGEND, SEE NOTE 3 ON DRAWING B28494.
4.  ALL DUCTWORK, UNLESS NOTED OTHERWISE.
5.  - INDICATES REVISION LEVEL.

|     |          |      |      |      |     |   |             |
|-----|----------|------|------|------|-----|---|-------------|
| 4   | 5/1/76   | MRB  | ---  | BCL  | APR | INCORP. MMOD 91-622 CAD   |             |
| 3   | 4/9/87   | DAP  | TAK  | LFC  | BCL | MAC   |             |
|     |          |      |      |      |     | REVISED REV. 2 SIGNOFF DATE ERROR.  |             |
| 2   | 3/13/87  | PHL  | TAK  | MRJ  | BCL | MAC   |             |
|     |          |      |      |      |     | INCORP. DCR 88-686 AND<br>ADDED DAMPERS PER LEGAC PAID.<br>CORRECTED DRAFTING ERRORS. ADDED<br>NOTE 5 AND PAID LEGEND REF NOTE. |             |
| 1   | 4/2/88   | MAP  | WES  | JDM  | YMK | RRC   |             |
|     |          |      |      |      |     | INCORPORATED ECA 99/117635A   |             |
| 0   | 08/12/96 | DWS  | GJS  | JDM  | DFM | WFO   |             |
|     |          |      |      |      |     | ISSUED FOR OPERATIONS   |             |
| REV | DATE     | DSGN | DRWN | CHKD | CE  | LDE   | DESCRIPTION |

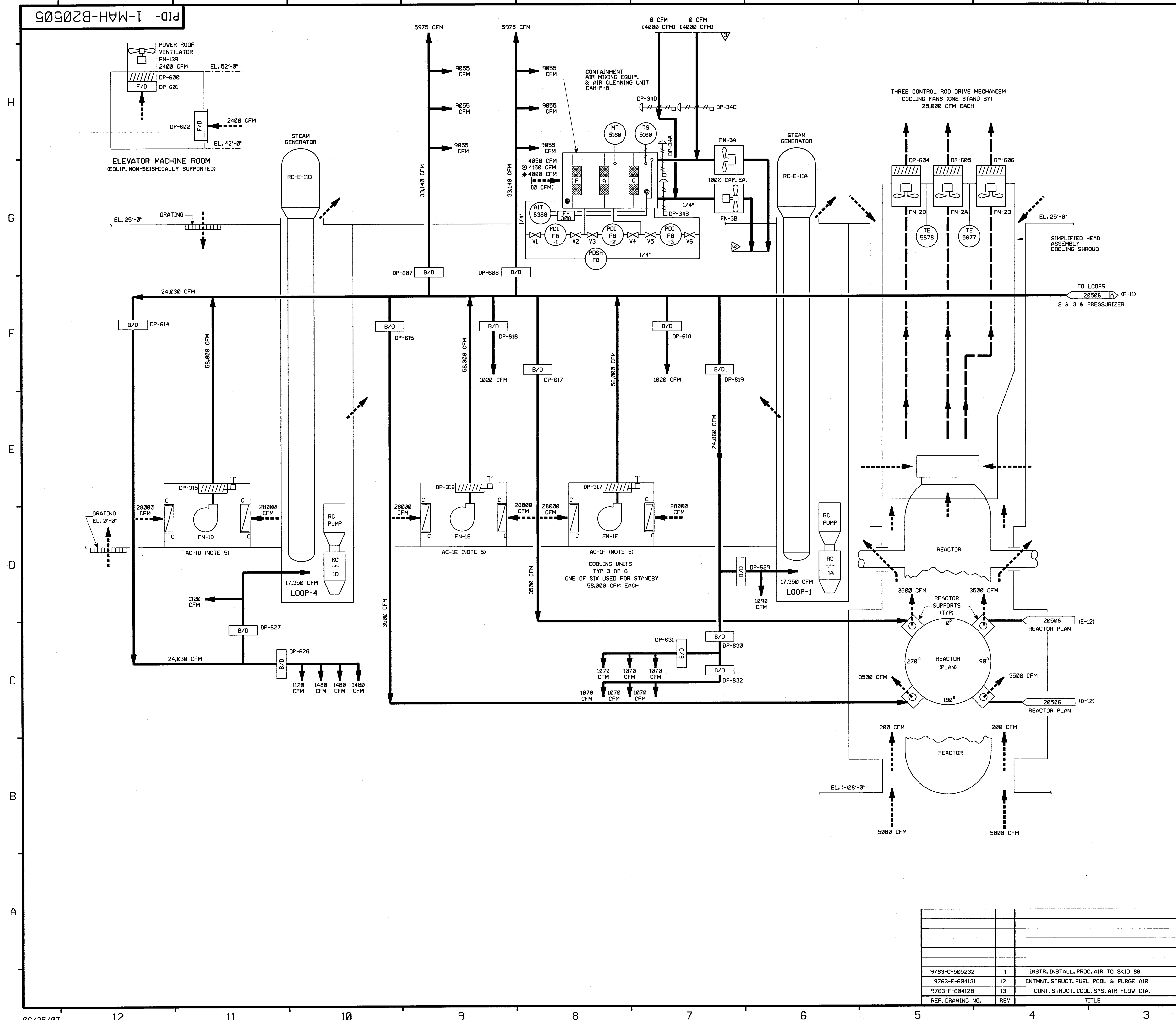
PSNH

PUBLIC SERVICE OF NEW HAMPSHIRE

MISCELLANEOUS AIR HANDLING  
WASTE PROCESS BUILDING  
DETAIL OF ELEV. (-)31'- 0"




SEABOARD STATION

PID- 1-MAH-B20502



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 20492, 20494 THRU 20504 & 20506.
  2. ALL HVAC, EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX  
CAH (CONTAINMENT AIR HANDLING) UNLESS NOTED.
  3. FOR SYMBOL LEGEND , SEE NOTE 3 ON DWG 20494.
  4. ALL DUCT WORK UNLESS NOTED.
  5. COMPONENT COOLING (CC) FOR THE COOLING COILS IN THE AIR CONDITIONING  
UNITS ARE AS FOLLOWS:  
CAH-AC-1D - 1-CC-28214  
CAH-AC-1E - 1-CC-28208  
CAH-AC-1F - 1-CC-28287
  6. FILTER DIFFERENTIAL PRESSURE AND REQUIRED FLOWS:

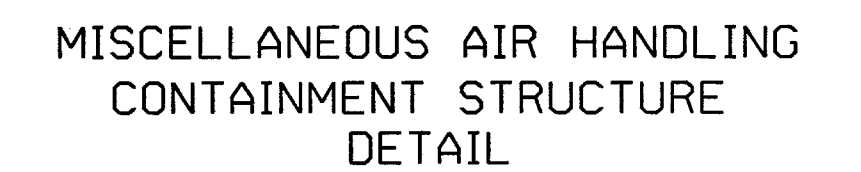
| FILTER<br>TAG NO. | CLEAN<br>FLOW<br>CFM | DIRTY<br>FLOW<br>CFM | ANSI<br>DIRTY<br>FLOW<br>CFM | SURVEILLANCE<br>TEST FLOW<br>CFM  | SURVEILLANCE<br>TEST FLOW +10%<br>CFM  | SURVEILLANCE<br>TEST FLOW -10%<br>CFM  |
|-------------------|----------------------|----------------------|------------------------------|--|---|---|
| CAH-F-8           | 4150                 | 4050                 | 4000                         | 4275   | 4702  | 3848  |
|                   |                      |                      |                              | MSE 07-103   | MSE 07-103  | MSE 07-103  |

PORTIONS OF THIS DRAWING ARE

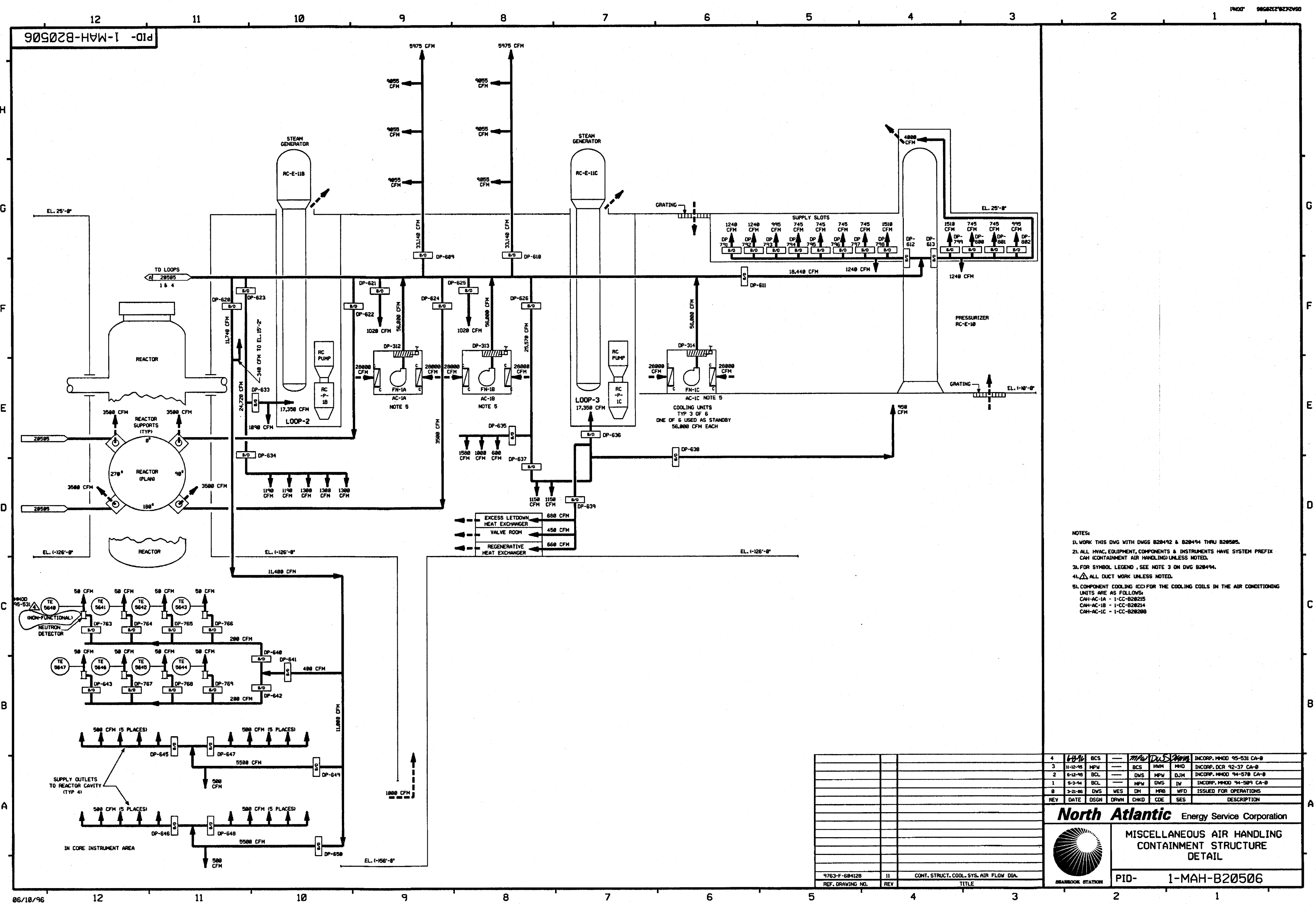
|                               |
|-------------------------------|
| <b>NUCLEAR SAFETY RELATED</b> |
|-------------------------------|

|     |          |      |      |     |  |
|-----|----------|------|------|-----|--|
| 6   | 6/26/07  | BCS  | JM   |     | INCPOR MSE 07-103 REV. 00  |
| 5   | 5/25/08  | BCS  | JCM  | WFZ | RE-INCPOR DCR 96-009 DCM 00  |
| 4   | 4/38/99  | RWS  | BCS  | MRJ | INCPOR DCR 96-009 DCM 00 &<br>DCR 95-0334 DCM 00   |
| 3   | 5/03/94  | BCL  | MPW  | JMS | INCPOR MMD 94-509 CA-0   |
| 2   | 4/27/89  | GPM  | MRB  | MAC | INCPOR DCR 86-555 CA. 9<br>REVISED: INSIR, DESIGNATION PER<br>JE & C DWG. 97E3-M-006134, NOTE 4<br>ADDED: NOTE 7             |
|     |          |      |      |     | MOVED DETAIL WITH RM-SKO-60 TIES-IN<br>TO MAH-20504, ADDED PKID LEGEND<br>NOTE, CONT. DWG. COORDS., INCPOR.<br>ECA 99/129474 |
| 1   | 12/23/86 | JDM  | PAL  | MAC |  |
|     | 3/21/86  | DWS  | DM   | WFD | ISSUED FOR OPERATIONS INCPOR.ECA 99/129474   |
| REV | DATE     | DSGN | CHKD | CD  | DESCRIPTION  |

Seabrook Station



|      |              |
|------|--------------|
| PID- | 1-MAH-B20505 |
|------|--------------|



- NOTES:
1. WORK THIS DWG WITH DWGS 828492 & 828494 THRU 828505.
  2. ALL HVAC EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CAH CONTAINMENT AIR HANDLING UNLESS NOTED.
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG 828494.
  4. ALL DUCT WORK UNLESS NOTED.
  5. COMPONENT COOLING (CC) FOR THE COOLING COILS IN THE AIR CONDITIONING UNITS ARE AS FOLLOWS:  
CAH-AC-1A - 1-CC-828215  
CAH-AC-1B - 1-CC-828214  
CAH-AC-1C - 1-CC-828208

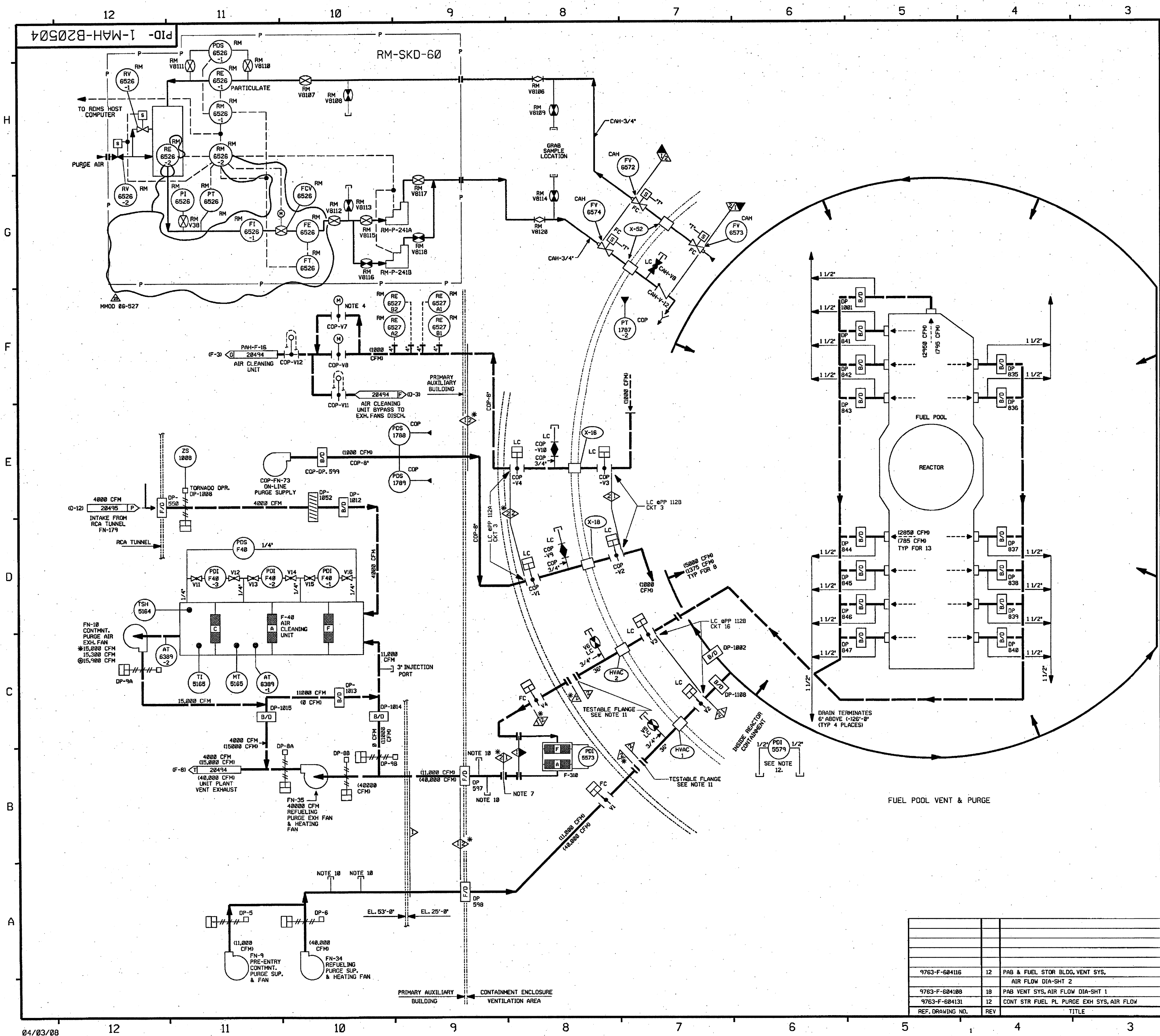
|   |          |      |      |      |     |     |                         |
|---|----------|------|------|------|-----|-----|-------------------------|
| 4   | 6-14-96  | BCS  | —    | MD   | DCS | MD  | INCORP. HMD 95-531 CA-8 |
| 3   | 11-12-95 | MPW  | —    | BCS  | MD  | MD  | INCORP. DCR 92-37 CA-8  |
| 2   | 6-12-95  | BCL  | —    | DWS  | MPW | DJM | INCORP. HMD 94-578 CA-8 |
| 1   | 5-3-94   | BCL  | —    | MPW  | DWS | IV  | INCORP. HMD 94-589 CA-8 |
| 0   | 3-21-95  | DWS  | WES  | DM   | HRB | WFO | ISSUED FOR OPERATIONS   |
| REV   | DATE     | DSGN | DRWN | CHKD | CDE | SES | DESCRIPTION             |
| <b>North Atlantic</b> Energy Service Corporation              |          |      |      |      |     |     |                         |
| MISCELLANEOUS AIR HANDLING<br>CONTAINMENT STRUCTURE<br>DETAIL |          |      |      |      |     |     |                         |
| PID- 1-MAH-B20506   |          |      |      |      |     |     |                         |

9763-F-604128  
REF. DRAWING NO.

11  
REV

CONT. STRUCT. COOL. SYS. AIR FLOW DIA.  
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 DRAWING WITH 20492, 20494 THRU 20503 & 20505 & 20506.
  2. ALL PIPING, HVAC, EQUIP. COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CAP (CONTAINMENT AIR PURGE) UNLESS NOTED.  
COP - (CONTAINMENT ON-LINE PURGE)
  3. FOR SYMBOL LEGEND, SEE NOTE 3 ON DWG. 20494.
  4. VALVE COP-V7 IS USED FOR THROTTLING.

5. FILTER HOUSING DIFFERENTIAL PRESSURES & REQUIRED FLOWS:

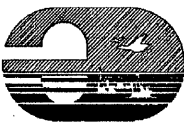
| FILTER TAG NO. | CLEAN FLOW CFM | DIRTY FLOW CFM | ANSI DIRTY FLOW CFM | SURVEILLANCE TEST FLOW CFM | SURVEILLANCE TEST FLOW +10% CFM | SURVEILLANCE TEST FLOW -10% CFM |
|----------------|----------------|----------------|---------------------|----------------------------|---------------------------------|---------------------------------|
| CAP-F-40       | 15300          | 15300          | 15000               | 15450                      | 16995                           | 13905                           |

6. VENT & DRAIN CODE BREAKS ARE AT THE DOWNSTREAM SIDE OF THE OUTER ISOLATION VALVE PER 1-NHY-885111 UNLESS OTHERWISE NOTED.
7. BLIND IS INSTALLED TO ISOLATE THE FILTER. DURING MODES 1-4 (NORMAL OPERATION), DURING MODES 5 & 6 (OUTAGES), THE BLIND WILL BE REMOVED TO ALIGN THE FILTER FOR OPERATION.

8.  $\Delta$  INDICATES REVISION LEVEL
9. DELETED
10. INSTRUMENT REMOVED AND LINE CAPPED.
11. TESTABLE FLANGES ARE INSTALLED DURING MODES 1-4 (NORMAL OPERATION). DURING MODES 5 & 6 (OUTAGES), THE BLIND FLANGES WILL BE REMOVED AND TRANSITION PIECES INSTALLED.
12. PDI FOR USE DURING REFUELING OUTAGES. ATTACH TEMP. TUBING TO HIGH SIDE AND ROUTE TO OUTSIDE AMBIENT.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

|     |          |      |      |     |  |
|-----|----------|------|------|-----|--|
| 25  | 4/14/88  | BCS  | JM   | JME | INCORP MMD 06-527 DCN-00   |
| 24  | 12/8/84  | BCS  | JM   | RRB | INCORP CR 04-09401 REV 00  |
| 23  | 9/4/83   | BCS  | JM   | MKC | INCORP SYSTEM FINAL CONFIGURATION PER DCR 00-21 DCN-00   |
| 22  | 1/27/83  | JM   | MPW  | BCS | INCORP CR 00-04963 REV 00, REVISED VALVE SYMBOL  |
| 21  | 10/28/80 | DWS  | MKC  | MKC | INCORP DCR 00-00221 DCN-00   |
| 20  | 6/2/78   | DWS  | BCS  | HW  | INCORP MMD 97-521 DCN-00   |
| 19  | 6/2/78   | DRL  | MPW  | VWS | INCORP MMD 97-521 DCN-00   |
| 18  | 12/2/75  | MPW  | BCS  | RJF | INCORP MMD 95-508 CA-0   |
| 17  | 11/6/75  | BCL  | MPW  | RRC | INCORP DCR 95-003 CA-0   |
| 16  | 6/12/75  | BCL  | DWS  | DJM | INCORP MMD 94-570 CA-0   |
| 15  | 4/20/74  | MPW  | BCL  | WFZ | INCORP DCR 92-014 CA-7   |
| 14  | 2/9/74   | BCL  | MRB  | VFZ | INCORP MMD 93-524 CA-0   |
| 13  | 10/2/72  | BCL  | MRB  | SAW | INCORP DCR 90-14 CA-4  |
| 12  | 4/14/72  | MRB  | DWS  | JEV | INCORP MMD 91-515 CA-0   |
| 11  | 9/18/91  | GPM  | JM   | MAC | INCORP DCR 90-14 CA-02   |
| 10  | 2/26/91  | MRB  | JM   | BCL | INCORP DCR 05-535 CA-01 & INCORP 90-14 CA-02   |
| 9   | 1/23/90  | MRB  | APL  | GRM | INCORP MMD 89-006 CA-0 AND INCORP DCR 85-555 CA-5  |
| 8   | 4/27/89  | GPM  | MRB  | MAC | REVISED VALVE SYMBOLS PER FP 73290, NOTE 5 DELETED; NOTE 7 & 9   |
| 7   | 5/12/87  | MPW  | HIW  | VWS | DELETED CHANGE ITEM 10 PER DCR 87-138  |
| 6   | 4/9/87   | DAP  | LFC  | MAC | REVISED REV 5 SIGNOFF DATE ERROR. REVISED SYS PREFIX FOR VLV'S ON RM-SKD-60. REVISED CAH-V8 TO GLOBE VLV PER ECA 99/1001019. ADDED SCHEMATIC LINES AND REMOVED RACK MTD. SYMBOLS PER EXISTING CONFIGURATION. ADDED NOTE 9 AND CHANGE ITEM 1. |
| 5   | 3/13/87  | MRJ  | JDM  | MAC | ADDED CONTINUATION DWG COORDINATES, INCORP ECA 99/1123477  |
| 4   | 12/23/86 | JDM  | PAL  | RRC | ADDED NOTE 7, 8 & P&ID LEGEND. INCORP DETAILS FOR RM-SKD-60.   |
| 3   | 10/17/86 | JDM  | MPW  | RRC | INCORP ECA 06/002001C & 98/1179402A ADDED LINE SIZES & REV REF DWGS  |
| 2   | 10/9/86  | JDM  | MAP  | RRC | UPDATE PER LATEST USEC P&ID  |
| 1   | 6/24/86  | DWS  | VNK  | RRC | INCORP ECA 99/1123477  |
| 0   | 3/4/86   | DWS  | DM   | WFD | ISSUED FOR OPERATIONS  |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION  |

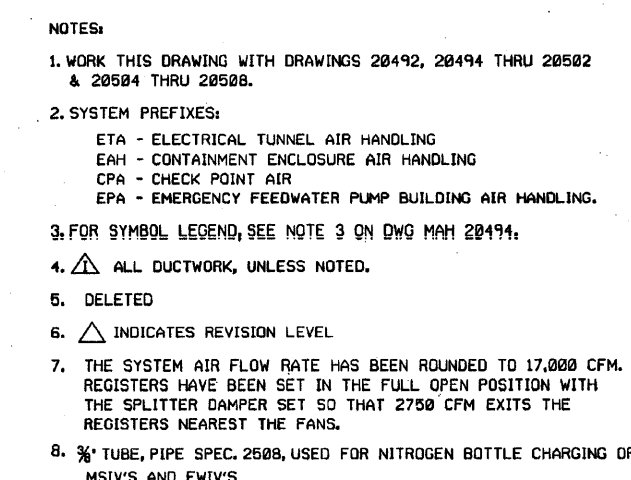
**FPL ENERGY**  
Seabrook Station

MISCELLANEOUS AIR HANDLING  
CONTAINMENT & PURGES  
DETAIL (COP, CAP)

PID- 1-MAH-B20504

| REF. DRAWING NO. | REV | TITLE  |
|------------------|-----|--|
| 9763-F-604116    | 12  | PAB & FUEL STOR BLDG. VENT SYS, AIR FLOW DIA-SHT 2 |
| 9763-F-604108    | 18  | PAB VENT SYS, AIR FLOW DIA-SHT 1                   |
| 9763-F-604131    | 12  | CONT STR FUEL PL. PURGE EXH SYS, AIR FLOW          |





PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

|     |          |      |      |     |   |
|-----|----------|------|------|-----|---|
| 14  | 1/24/88  | MRB  | CFB  | JFA | INCOMP MSE 08-024 REV 00  |
| 13  | 9/10/83  | JM   | BCS  | MAP | INCOMP MMOD 03-0505 DCN 00  |
| 12  | 3/14/82  | JM   | MPW  | BCS | INCOMP MSE 01-0319 REV 00   |
| 11  | 11/14/80 | BCS  | MPW  | MKC | INCOMP DCR 00-0003 DCN-00   |
| 10  | 6/28/79  | BCS  | MPW  | JCM | INCOMP DCR 98-13 DCN-00   |
| 9   | 6/2/78   | DRL  | BCS  | DWS | INCOMP MMOD 97-521 DCN-00   |
| 8   | 3/13/87  | BCL  | DWS  | CWE | INCOMP MMOD 94-570 CA0 AND<br>DCR 93-58 CA-01   |
| 7   | 7/14/92  | MRB  | BCL  | IV  | INCOMP MMOD 90-611 CA0  |
| 6   | 8/16/91  | MRB  | JM   | IW  | INCOMP DCR 86-554, CA0  |
| 5   | 9/24/90  | MRB  | RMC  | BCL | INCOMP MMOD 90-516 CA0  |
| 4   | 2/2/90   | MRB  | APL  | IW  | INCORPORATED DCR 87-48 CA06   |
| 3   | 4/9/87   | DAP  | LFC  | MAC | REVISED REV 2 SIGNOFF DATE ERROR.<br>ADDED TSL 5434 PER LOOP DIAG.<br>INCOMP DCR 534 REVISED REV DNG REV.   |
| 2   | 3/13/87  | WDS  | MRJ  | MAC | ADDED NOTES 6 & 6, ADDED REFERENCE<br>DRAWING, ADDED FLOW DIAGRAM DETAIL<br>FOR H2 ANALYZER ROOM AND ELECTRICAL<br>ROOM PER REVIEW OF USC DNG 684178. |
| 1   | 11/18/86 | JDM  | MPW  | RRR | ISSUED FOR OPERATIONS   |
|     | 6/12/86  | JDM  | DWS  | CF  |   |
| REV | DATE     | DSGN | CHKD | NO  | DESCRIPTION   |

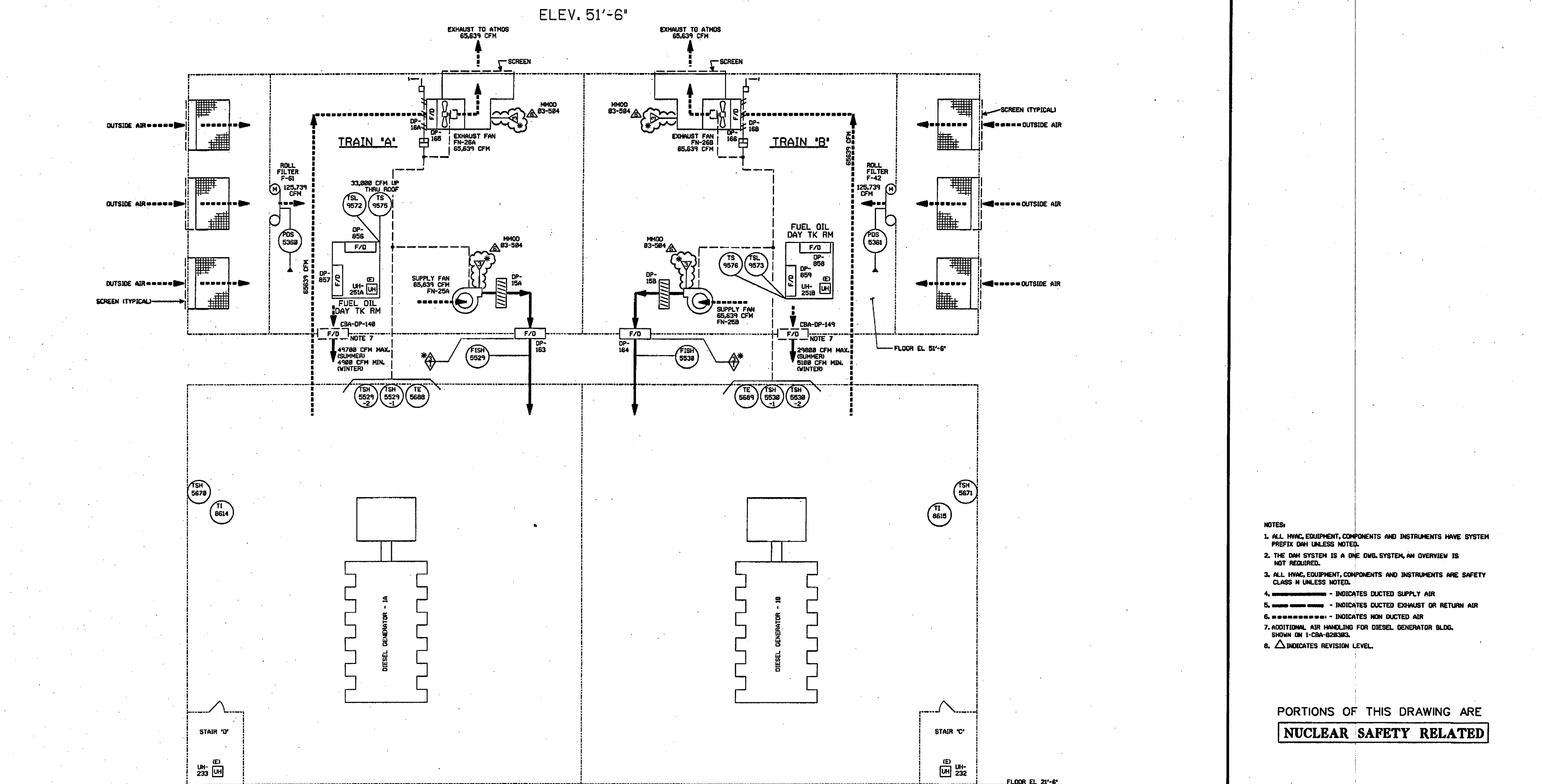
**FPL ENERGY**

Seabrook Station



### MISCELLANEOUS AIR HANDLING DETAILS

|      |              |
|------|--------------|
| PID- | 1-MAH-B20503 |
|------|--------------|



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

- NOTES:
1. ALL HVAC, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX DAN UNLESS NOTED.
  2. THE DAN SYSTEM IS A ONE DWG. SYSTEM, AN OVERVIEW IS NOT REQUIRED.
  3. ALL HVAC, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS W UNLESS NOTED.
  4. \_\_\_\_\_ - INDICATES DUCTED SUPPLY AIR
  5. \_\_\_\_\_ - INDICATES DUCTED EXHAUST OR RETURN AIR
  6. \_\_\_\_\_ - INDICATES NON DUCTED AIR
  7. ADDITIONAL AIR HANDLING FOR DIESEL GENERATOR BLDG. SHOWN ON 1-CBA-828303.
  8. △ INDICATES REVISION LEVEL.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

|            |         |      |      |   |                           |
|------------|---------|------|------|---|---------------------------|
| 6          | 1-16/88 | J    | BES  | ZRS                                     | INCOMP M40D 93-584 DCN 98 |
| 3/24/88    | DWS     | BGS  | JMS  | INCOMP DCR 980839 DCN#98 & 28           |                           |
| 4/6/19/88  | BDL     | DSW  | DJM  | INCOMP M40D 94-578 CA-8                 |                           |
| 3/12/1/94  | MPL     | DWS  | JFS  | INCOMP DCR 93-44 CA-8                   |                           |
| 2/12/85/89 | MRS     | PAL  | IV   | INCORPORATED 87-485 CA                  |                           |
| 1/2/24/87  | WAB     | PAL  | MAC  | ADDED P & I IN LDCN 2 NOTE.             |                           |
| 6/25-88/89 | WES     | JOM  | MF   | REVISE REF DWG REVISIONS INCOMP DCR 526 |                           |
|            |         |      |      | ISSUED FOR OPERATIONS & INCORP          |                           |
|            |         |      |      | ECA'S 97/1126880 & 97/114498A           |                           |
| REV        | DATE    | DSGN | CHNG | REASON                                  |                           |

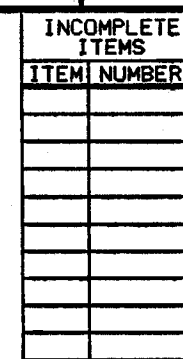
| REF               | DATE | USER | GRID | EE | DESCRIB TORY     |
|-------------------|------|------|------|----|------------------|
| <b>FPL ENERGY</b> |      |      |      |    | Seabrook Station |




# DIESEL GENERATOR BUILDING AIR HANDLING

|      |              |
|------|--------------|
| PID- | 1-DAH-B20624 |
|------|--------------|

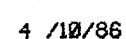
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|-----------------|-----|---|--|
|                 |     |   |  |
|                 |     |   |  |
|                 |     |   |  |
|                 |     |   |  |
|                 |     |   |  |
|                 |     |   |  |
| 9763-F-684891   | 12  | CONTROL BLDG. VENTL. SYS., AIR FLOW DIAG. |  |
| 9763-F-684896   | 7   | DIESEL GEN BLDG AIR FLOW DIAG             |  |
| REF. DRAWING NO | REV | TITLE                                     |  |



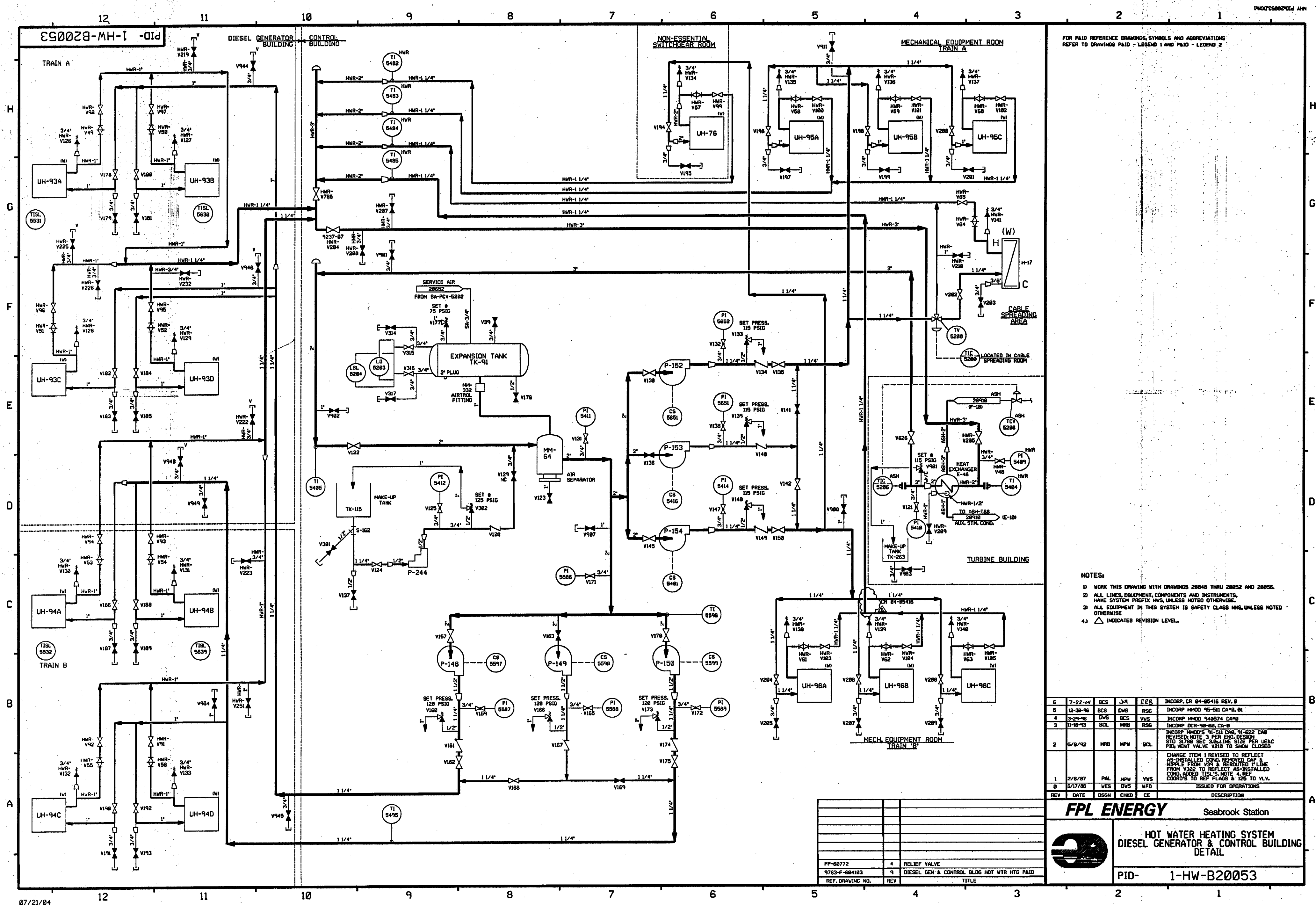
NOTES:

- 1.) WORK THIS DRAWING WITH DRAWINGS 28849 THRU 28856.
- 2.) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX HWS,  
UNLESS NOTED OTHERWISE
- 3.)  -INDICATES REVISION LEVEL.

[illegible]








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

- NOTES:
- 1) WORK THIS DRAWING WITH DRAWINGS 20048 THRU 20052 AND 20056.
  - 2) ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS, HAVE SYSTEM PREFIX HWS, UNLESS NOTED OTHERWISE.
  - 3) ALL EQUIPMENT IN THIS SYSTEM IS SAFETY CLASS HWS, UNLESS NOTED OTHERWISE.
  - 4)  $\Delta$  INDICATES REVISION LEVEL.

|     |          |      |      |     |   |
|-----|----------|------|------|-----|---|
| 6   | 7-22-64  | BCS  | JM   | 228 | INCCORP CR 84-05416 REV. 0  |
| 5   | 12-30-66 | BCS  | DMS  | RSG | INCCORP HMD 95-511 CA#8, 01   |
| 4   | 3-24-66  | DWS  | BCS  | VNS | INCCORP HMD 94-0574 CA#8  |
| 3   | 11-16-93 | BCL  | MRB  | RSG | INCCORP DCR-90-60, CA-8   |
| 2   | 5/8/92   | MRB  | MPW  | BCL | INCCORP HMD'S 91-511 CA#8, 91-622 CA#8<br>REVISED NOTE 3 PER ENG DESIGN<br>STD 31780 SEC 3.8 LINE SIZE PER LEAC<br>PID VENT VALVE V210 TO SHOW CLOSED   |
| 1   | 2/6/87   | PHL  | MPW  | VNS | CHANGE ITEM 1 REVISED TO REFLECT<br>AS-INSTALLED COND. REMOVED CAP &<br>NIPPLE FROM V39 & REROUTED F-LINE<br>FROM V32 TO REFLECT AS-INSTALLED<br>COND. ADDED TISL'S NOTE 4, REF<br>COND'S TO REF PLAS & 125 TO VLV. |
| 0   | 5/17/86  | VES  | DWS  | WFD | ISSUED FOR OPERATIONS   |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION   |

**FPL ENERGY**  
Seabrook Station

**HOT WATER HEATING SYSTEM  
DIESEL GENERATOR & CONTROL BUILDING  
DETAIL**

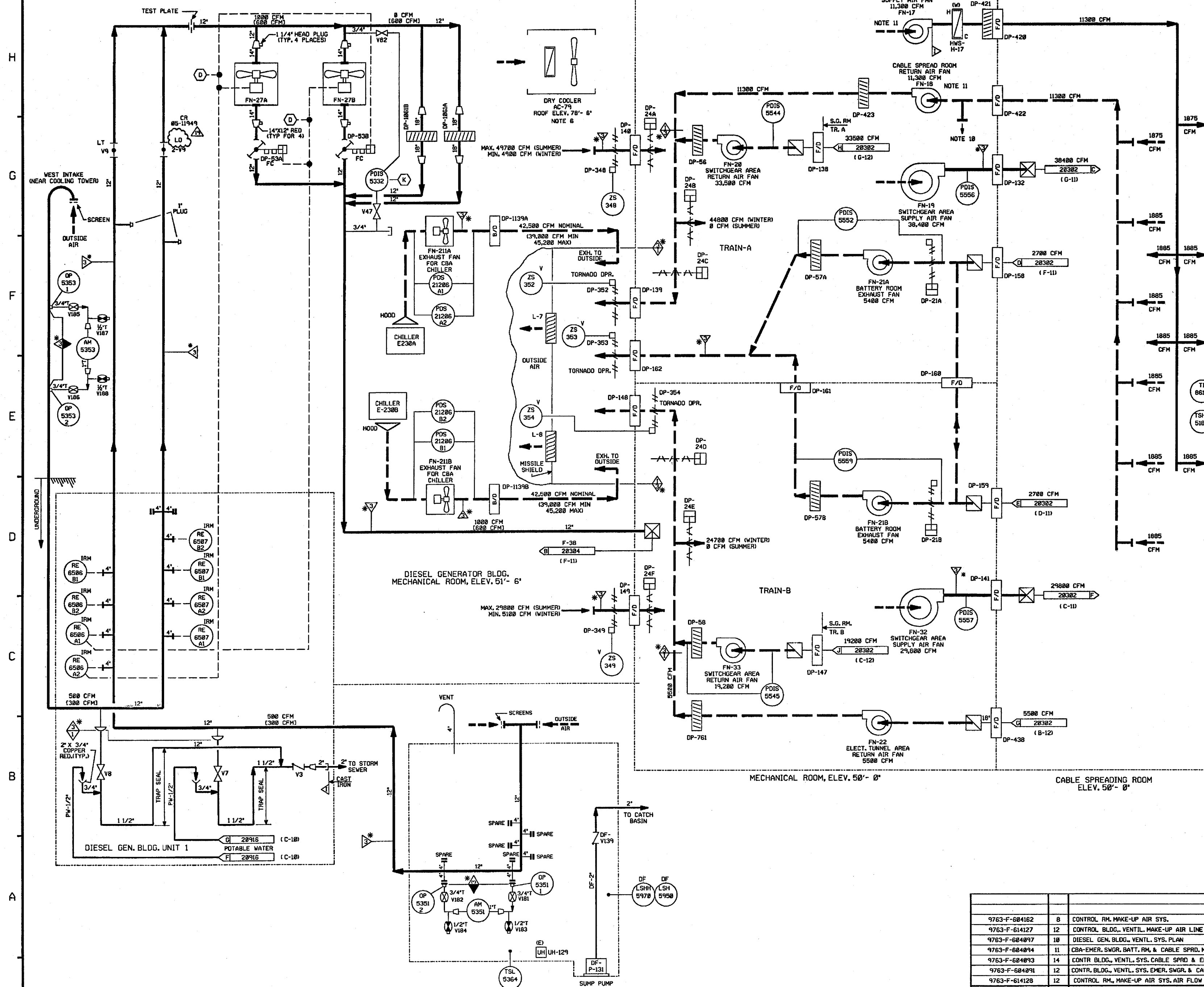
PID- 1-HW-B20053

|               |     |  |
|---------------|-----|--|
| FP-60772      | 4   | RELIEF VALVE                               |
| 9763-F-684183 | 9   | DIESEL GEN & CONTROL BLDG HOT WTR HTG PAID |
| REV           | REV | TITLE                                      |


07/21/04



PID- 1-CBA-B20303



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 28308, 28382 & 28304 THRU 28386.
  2. ALL HVAC, EQUIP. & INSTRUMENTS HAVE SYSTEM PREFIX CBA, UNLESS NOTED.
  3. FOR SYMBOL LEGEND SEE DRAWING 28382.
  4. INSTRUMENT REFERENCES :
    - A INTERLOCK WITH 2-CBA-FN-27A & 2-CBA-DP-53B
    - B INTERLOCK WITH 2-CBA-FN-27B & 2-CBA-DP-53A
    - D INTERLOCK WITH FILTER RECIRC. SIGNAL LOGIC DIA 583231
    - K TO DP-28 ON DWG 28304
  5. DELETED
  6. REFRIGERANT PIPING SHOWN ON DWG. 28308.
  7. DELETED
  8. DELETED
  9.  INDICATES REVISION LEVEL.
18. OPENING TO PROVIDE OVER-PRESSURE PROTECTION FOR CABLE SPREADING ROOM WHEN FAN OFF. OPENING IS NORMALLY COVERED WITH FAN ON.
19. FAN IN PERMANENT STAND-BY STATUS.

PORTIONS OF THIS DRAWING ARE  
**NUCLEAR SAFETY RELATED**

|     |          |      |      |     |   |
|-----|----------|------|------|-----|---|
| 19  | 4/24/65  | BCS  | JM   | MP  | INCOMP, CR 85-11949 REV. 00   |
| 18  | 4/27/65  | JM   | BCS  | DJM | INCOMP, DCR 85-889 DCM 00 & 01  |
| 17  | 12/06/62 | JM   | BCS  | RCP | INCOMP, DCR 97-38 DCM-00 & 01   |
| 16  | 11/22/62 | BCS  | MPW  | RCP | PARTIAL, INCOMP, DCR 97-38 DCM-00   |
| 15  | 3-24-00  | BCS  | BCS  | JMS | INCOMP DCR 980893 DCM#00, 20 & 63   |
| 14  | 2/22/00  | BCS  | DWS  | MPW | PARTIAL, INCOMP DCR 980893 DCM#63   |
| 13  | 2/11/00  | DWS  | BCS  | MPW | PARTIAL, INCOMP DCR 980893 DCM#00 & 28  |
| 12  | 1/5/99   | BCS  | MPW  | RWM | INCOMP, MMDO 96-533 CA-B  |
| 11  | 4/01/96  | BCS  | DWS  | GG  | INCOMP, MMDO 96-623 DCM 00  |
| 10  | 6/18/92  | MPW  | DWS  | RCP | INCOMP, MMDO 97-569 DCM 00  |
| 9   | 6/12/95  | DJM  | DJM  | BCS | INCOMP, MMDO 94-748 CA-B  |
| 8   | 2/28/92  | MRB  | BCL  | JMS | INCOMP, DCR 89-14 CA-B  |
| 7   | 4/2/92   | MRB  | BCL  | JEV | INCOMP, MMDO 91-515 CA-B2   |
| 6   | 8/31/91  | GPM  | JM   | MAC | INCOMP, DCR 89-08 CAB7  |
| 5   | 2/8/91   | MRB  | JM   | DJM | INCOMP, ECA 85-2253C  |
| 4   | 9/24/91  | MRB  | AFL  | JWS | INCOMP, DCR 85-720 CA21<br>DOE VS. PRELIM. DIS. NOTE 2<br>VERIFICATION  |
| 3   | 4/5/89   | GPM  | PAL  | MAC | INCORPORATED DCR 89-7<br>ADDED INSTRUMENTATION & NOTE 9,<br>CORRECTED LINE TO INSTR. 5301,<br>RELOCATED 3/4" PLUG PER EMISSION ISO,<br>ADDED PAID LEGEND NOTE UPDATED REB<br>DWM REVS., INCOMP ECA 98/11873/34<br>ADDED CONTINUATION OF COORDINATES<br>INCOMP DCR 828, DELETED NOTE 5 |
| 2   | 2/24/87  | JDM  | PAL  | MAC | INCOMP ECA 94/11582/8<br>ADDED POTABLE WATER SONT,<br>& FLOW RATES FOR ACWA & B   |
| 1   | 6/26/86  | BCL  | DNK  | RRC | ISSUED FOR OPERATIONS   |
| 0   | 3/4/86   | DWS  | WES  | WF  |   |
| REV | DATE     | DSGN | CHKD | CF  | DESCRIPTION   |

**FPL ENERGY**

Seabrook Station

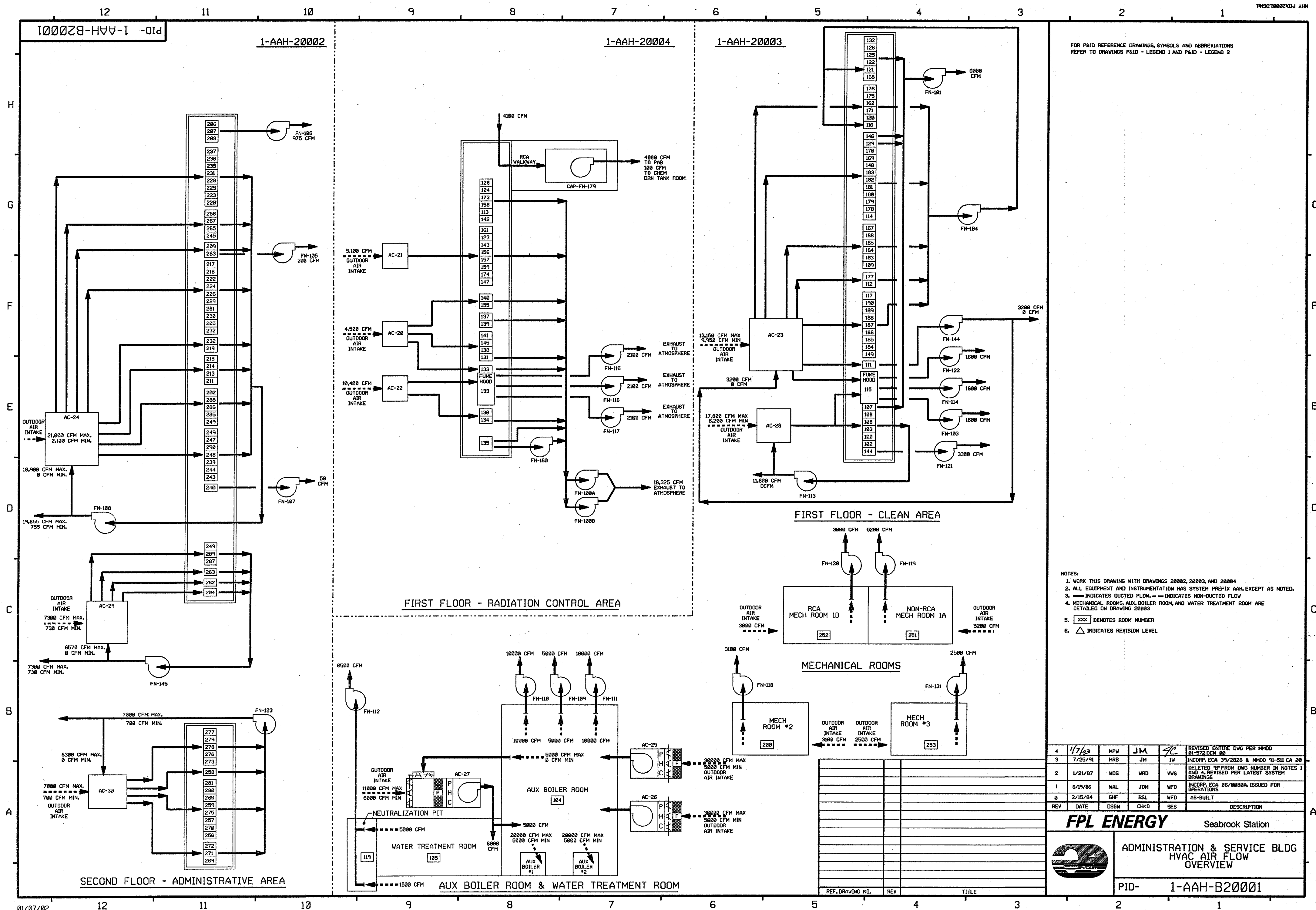
# CONTROL BUILDING AIR HANDLING DETAIL

|      |              |
|------|--------------|
| PID- | 1-CBA-B20303 |
|------|--------------|

|                  |     |  |
|------------------|-----|--|
|                  |     |  |
| 9763-F-684162    | 8   | CONTROL RM, MAKE-UP AIR SYS.                       |
| 9763-F-614127    | 12  | CONTROL BLDG., VENTIL. MAKE-UP AIR LINE            |
| 9763-F-684907    | 16  | DISEL GEN. BLDG., VENTIL. SYS. PLAN                |
| 9763-F-684904    | 18  | CABE-EMER. SWGR. BATT. RM. & CABLE SPD. MED. ECH.  |
| 9763-F-684903    | 14  | CONTR. BLDG., VENTIL. SYS. CABLE SPD. & ELECT. TU. |
| 9763-F-684901    | 12  | CONTR. BLDG., VENTIL. SYS. EMER. SWGR. & CABLE     |
| 9763-F-614128    | 12  | CONTROL RM., MAKE-UP AIR SYS., AIR FLOW            |
| PCS, DSAM/WH, WD | DSM | TTL. FS.   |



SEABROOK STATION PID- 1-CBA-B20302

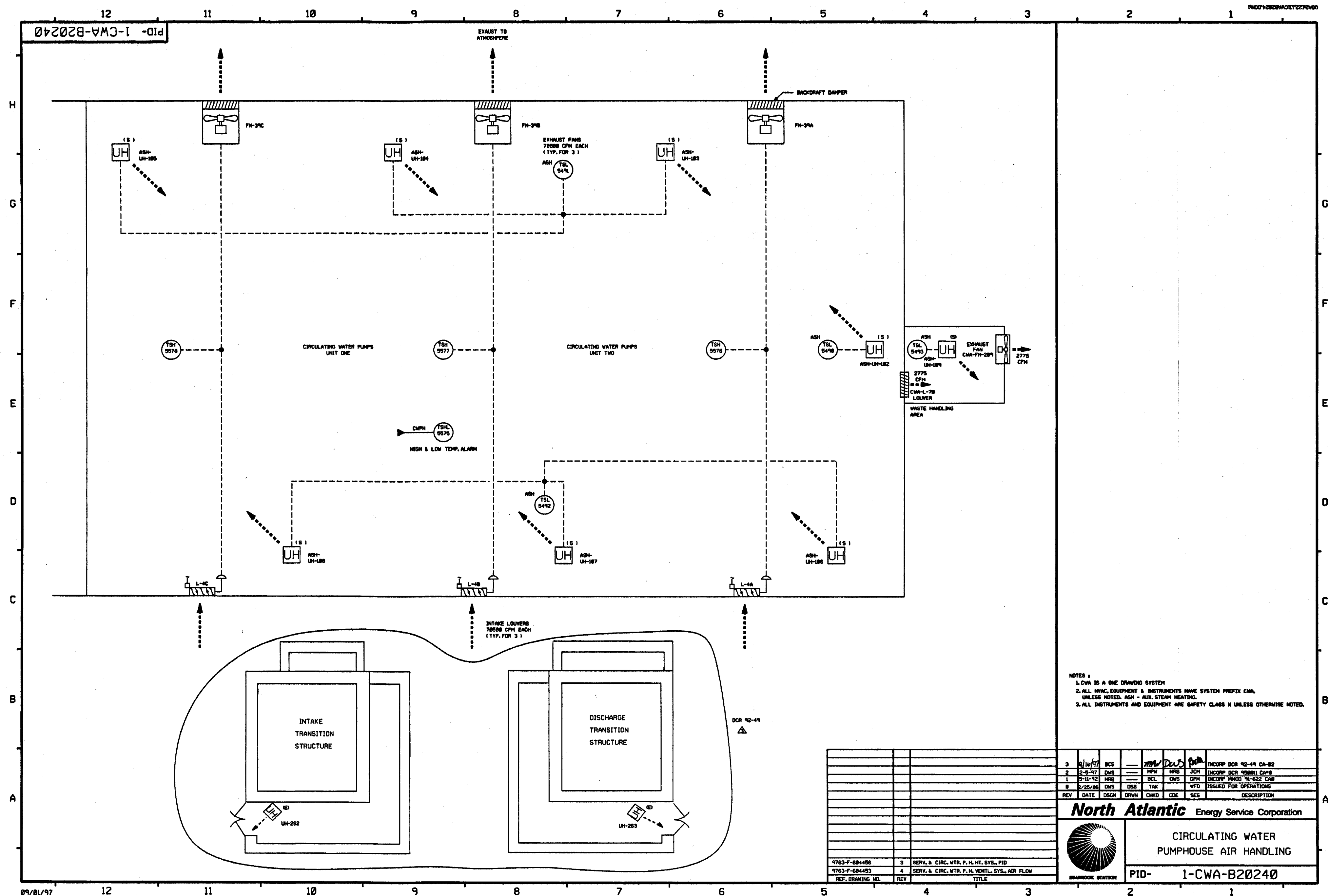


|     |         |      |      |     |  |
|-----|---------|------|------|-----|--|
| 4   | 1/7/03  | MPW  | JM   | JL  | REVISED ENTIRE DWG PER M400 01-572 DCN 00  |
| 3   | 7/25/91 | MRB  | JM   | IM  | INCORP. ECA 39/2826 & M400 91-511 CA 00  |
| 2   | 1/21/87 | WDS  | WRD  | VWS | DELETED "B" FROM DWG NUMBER IN NOTES 1 AND 4. REVISED PER LATEST SYSTEM DRAWINGS |
| 1   | 6/19/86 | WAL  | JDM  | WFD | INCORP. ECA 06/0000A. ISSUED FOR OPERATIONS                                      |
| 0   | 2/15/84 | GHF  | RSL  | WFD | AS-BUILT   |
| REV | DATE    | DSGN | CHKD | SES | DESCRIPTION  |

**FPL ENERGY** Seabrook Station

**ADMINISTRATION & SERVICE BLDG HVAC AIR FLOW OVERVIEW**

**PID- 1-AAH-B20001**

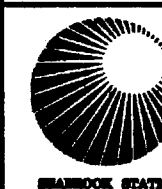


NOTES :

1. CWA IS A ONE DRAWING SYSTEM
2. ALL HVAC, EQUIPMENT & INSTRUMENTS HAVE SYSTEM PREFIX CWA, UNLESS NOTED. ASH - AUX. STEAM HEATING.
3. ALL INSTRUMENTS AND EQUIPMENT ARE SAFETY CLASS H UNLESS OTHERWISE NOTED.

|     |         |      |      |      |      |     |                         |
|-----|---------|------|------|------|------|-----|-------------------------|
| 3   | 9/10/97 | BCS  | ---  | MMW  | DECS | SPM | INCORP DCR 92-49 CA-B2  |
| 2   | 2-5-97  | DWS  | ---  | MMW  | MRB  | JCH | INCORP DCR 950801 CA#8  |
| 1   | 5-11-92 | MRB  | ---  | BCL  | DWS  | GPH | INCORP PMOCD 91-622 CA# |
| 0   | 2/25/96 | DWS  | DSB  | TAK  | WFD  |     | ISSUED FOR OPERATIONS   |
| REV | DATE    | DSGN | DRWN | CHKD | CDE  | SES | DESCRIPTION             |



**North Atlantic** Energy Service Corporation



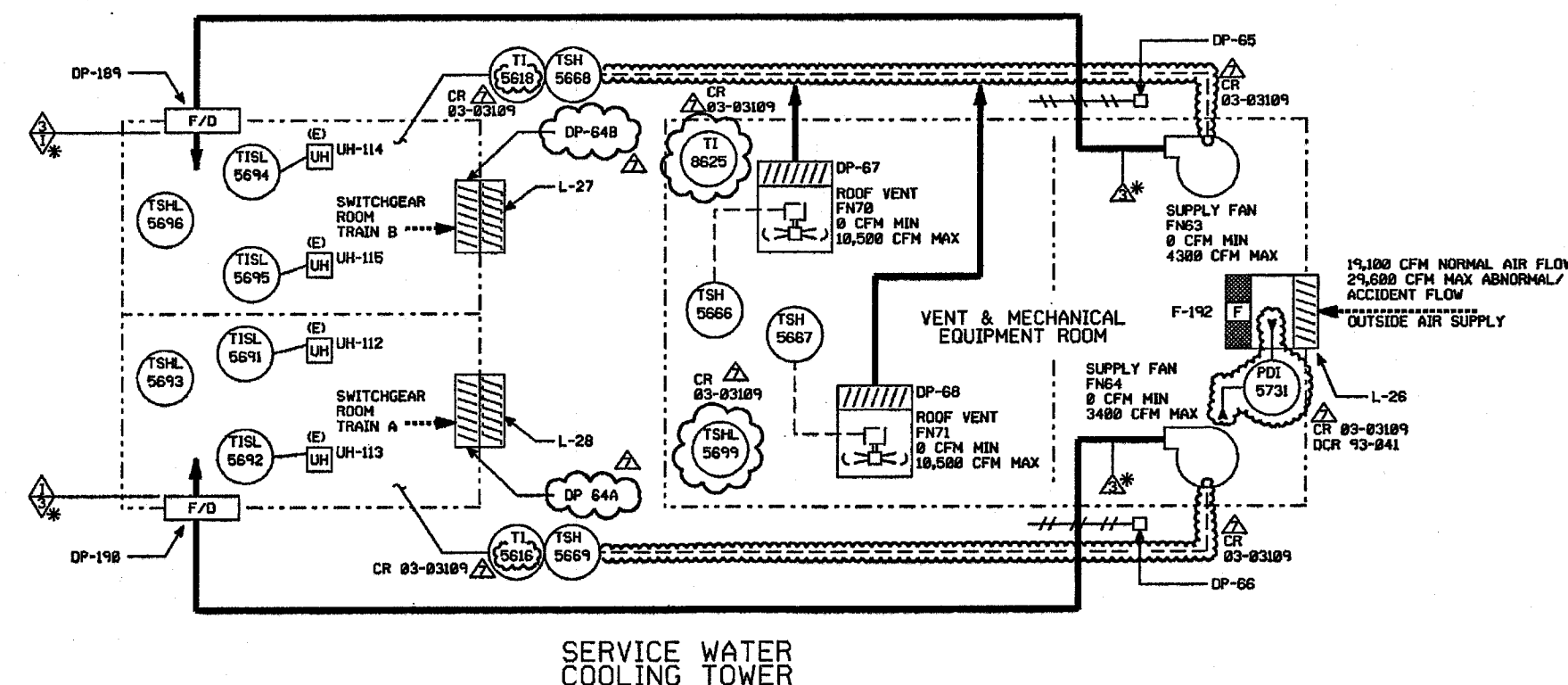
CIRCULATING WATER  
PUMPHOUSE AIR HANDLING

PID- 1-CWA-B20240

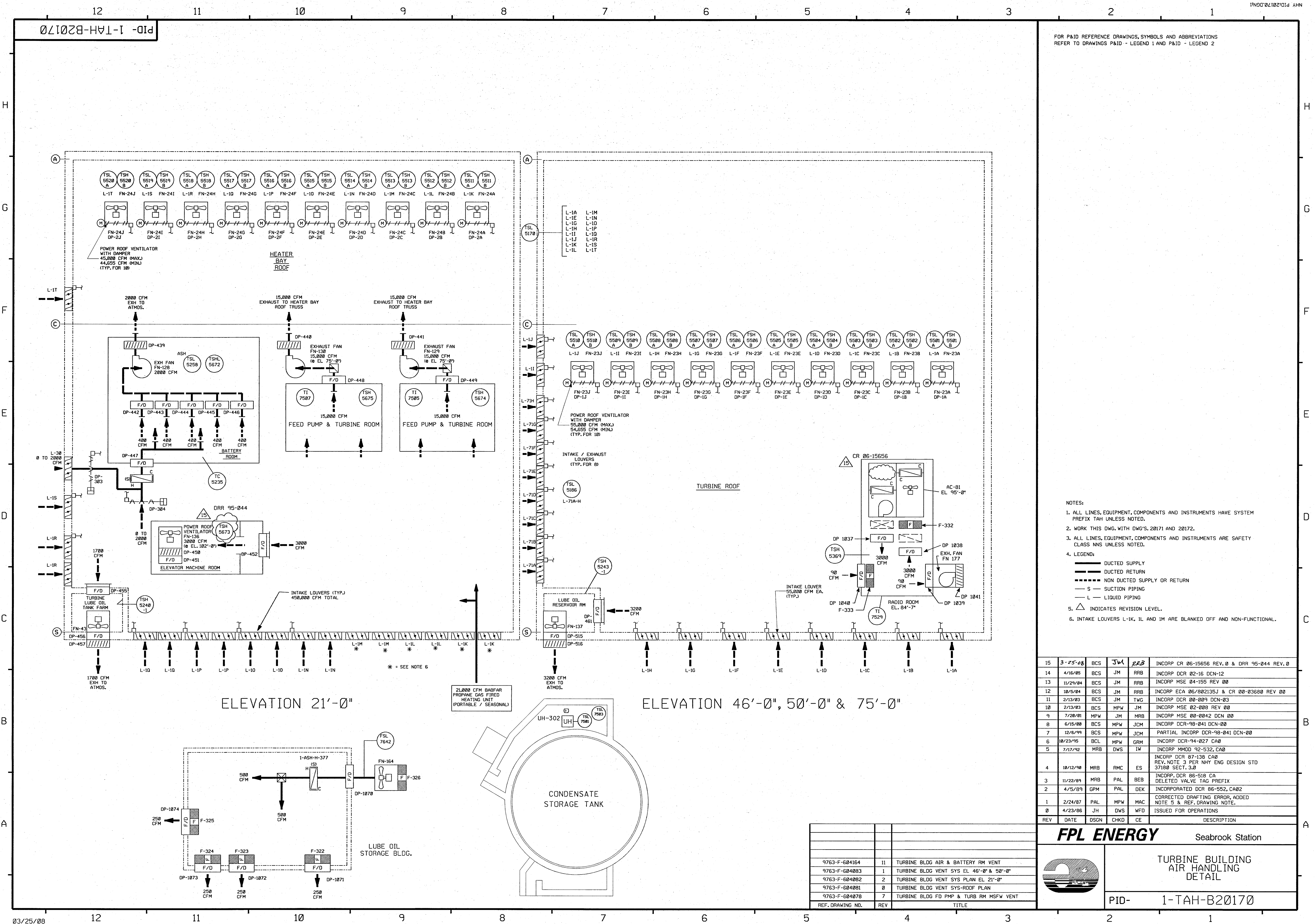
NOTES:

1. ALL EQUIPMENT, COMPONENTS, & INSTRUMENTS HAVE SYSTEM PREFIX SVA UNLESS OTHERWISE NOTED.
2. THE SVA SYSTEM IS A ONE (1) DRAWING SYSTEM, AN OVERVIEW IS NOT REQUIRED.
3.  ALL DUCTWORK, UNLESS NOTED.
4. ALL EQUIPMENT, COMPONENTS, & INSTRUMENTS ARE SAFETY CLASS NMS UNLESS OTHERWISE NOTED.
5.  INDICATES REVISION LEVEL.
6. THIS UNIT 2 EQUIPMENT IS NEEDED FOR UNIT 1 OPERATION.

|     |         |      |      |     |   |   |
|-----|---------|------|------|-----|---|---|
| 7   | 5/19/83 | JM   | BCL  | MPW | VMS   | INCORP. CDR 93-03199 REV. 00<br>RE-INCORP. CDR 93-041 CA 01 & REVISED DAMPER TO |
| 6   | 6/14/79 | BCL  | MPW  | VMS | INCORP. MH00 94-578 CA 01   |   |
| 5   | 12/9/94 | BCL  | MPW  | VMS | INCORP. MH00 94-580 CA 01   |   |
| 4   | 3/31/93 | MRB  | BCL  | JCH | INCORP. MH00 92-553 CA 01   |   |
| 3   | 9/24/78 | MRB  | JM   | BCL | INCORP. MH00 98-516 CA 01<br>REVISED NOTE 4 PER ENGINEERING<br>DESIGN STANDARD 37188 SECT. 3.8<br>ADDED LEGEND NOTE |   |
| 2   | 8/2/58  | MPW  | PAL  | MAC | REVERSED T1 NO'S PER M-506944 REV 4<br>& INCORP. ECA 99/108122A   |   |
| 1   | 2/24/87 | WDS  | PAL  | MAC | INCORP. ECR 826, ADDED T1-5653<br>PER M-506844  |   |
| 0   | 4-24-86 | JS   | JKM  | WFD | ISSUED FOR OPERATIONS   |   |
| REV | DATE    | DSGN | CHKD | CE  |   | DESCRIPTION   |





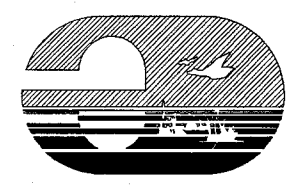


FOR P&ID REFERENCE DRAWINGS, SYMBOLS AND ABBREVIATIONS  
REFER TO DRAWINGS P&ID - LEGEND 1 AND P&ID - LEGEND 2

- NOTES:
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX T&H UNLESS NOTED.
  - WORK THIS DWG. WITH DWG'S 20171 AND 20172.
  - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS NNS UNLESS NOTED.
  - LEGEND:
- DUCTED SUPPLY
  - DUCTED RETURN
  - NON DUCTED SUPPLY OR RETURN
  - S - SUCTION PIPING
  - L - LIQUID PIPING
  - INDICATES REVISION LEVEL.
  - INTAKE LOUVERS L-1K, 1L AND 1M ARE BLANKED OFF AND NON-FUNCTIONAL.

|     |          |      |      |     |  |
|-----|----------|------|------|-----|--|
| 15  | 3-25-08  | BCS  | JW   | REB | INCORP CR 06-15656 REV. 0 & DRR 95-044 REV. 0                                  |
| 14  | 4/16/05  | BCS  | JM   | RRB | INCORP DCR 02-16 DCN-12  |
| 13  | 11/29/04 | BCS  | JM   | RRB | INCORP MSE 04-155 REV 00   |
| 12  | 10/5/04  | BCS  | JM   | RRB | INCORP ECA 05/002135J & CR 00-03600 REV 00                                     |
| 11  | 2/13/03  | BCS  | JM   | TWG | INCORP DCR 00-009 DCN-03   |
| 10  | 2/13/03  | BCS  | MPW  | JM  | INCORP MSE 02-008 REV 00   |
| 9   | 7/28/01  | MPW  | JM   | MRB | INCORP MSE 00-0042 DCN 00  |
| 8   | 6/15/00  | BCS  | MPW  | JCM | INCORP DCR-98-041 DCN-00   |
| 7   | 12/6/99  | BCS  | MPW  | JCM | PARTIAL INCORP DCR-98-041 DCN-00   |
| 6   | 10/23/95 | BCL  | MPW  | GRM | INCORP DCR-94-027 CA0  |
| 5   | 7/17/92  | MRB  | DWS  | IW  | INCORP MMOD 92-532, CA0  |
| 4   | 10/12/90 | MRB  | RMC  | ES  | INCORP DCR 87-130 CA0<br>REV. NOTE 3 PER NHY ENG DESIGN STD<br>37180 SECT. 3.0 |
| 3   | 11/22/89 | MRB  | PAL  | BEB | INCORP DCR 86-518 CA<br>DELETED VALVE TAG PREFIX                               |
| 2   | 4/5/89   | GPM  | PAL  | DEK | INCORPORATED DCR 86-552, CA02  |
| 1   | 2/24/87  | PAL  | MPW  | MAC | CORRECTED DRAFTING ERROR, ADDED<br>NOTE 5 & REF. DRAWING NOTE.                 |
| 0   | 4/23/86  | JH   | DWS  | WFO | ISSUED FOR OPERATIONS  |
| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION  |

**FPL ENERGY**  
Seabrook Station

**TURBINE BUILDING  
AIR HANDLING  
DETAIL**

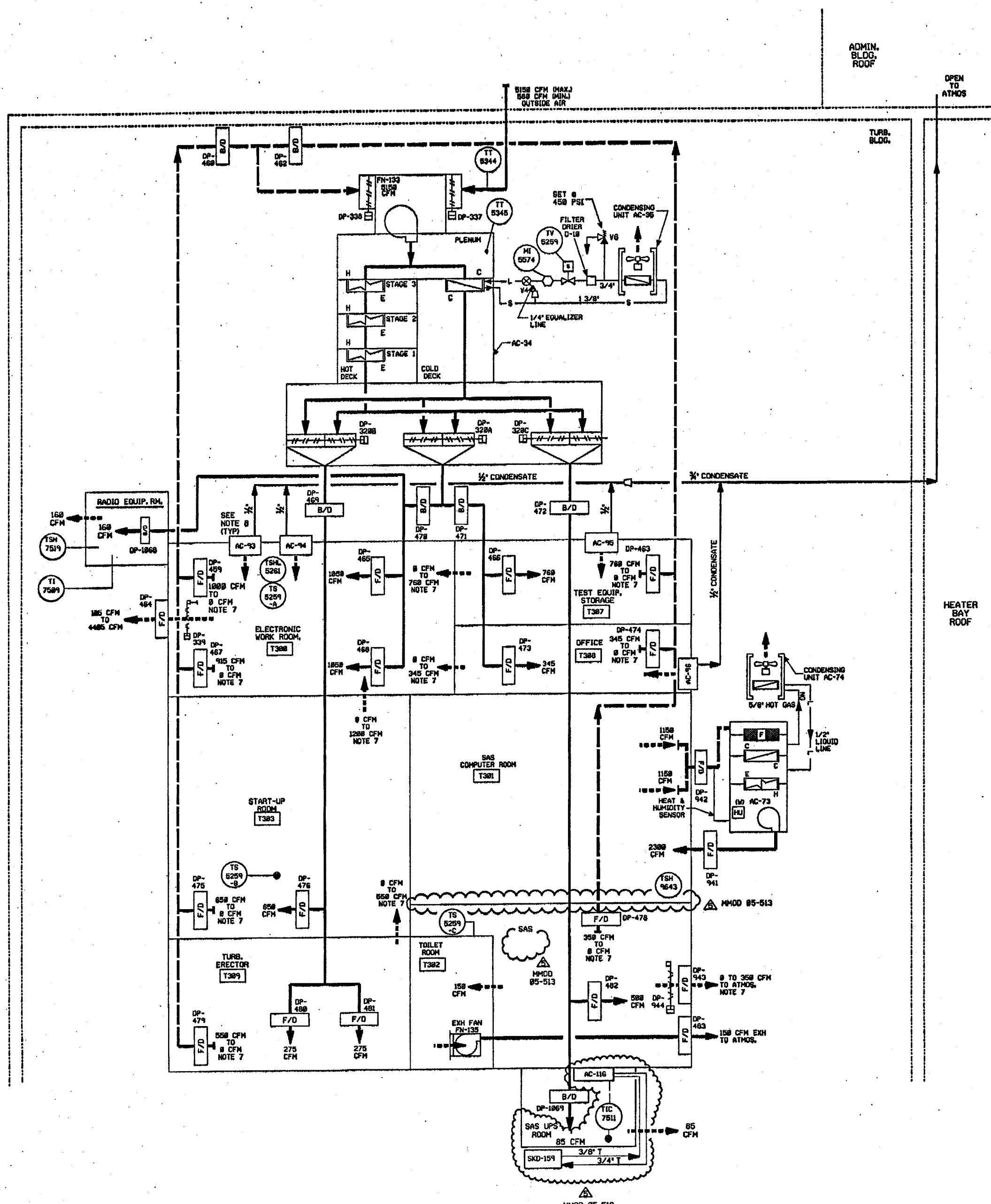
PID- 1-TAH-B20170

| REF. DRAWING NO. | REV | TITLE                                    |
|------------------|-----|--|
| 9763-F-604164    | 11  | TURBINE BLDG AIR & BATTERY RM VENT       |
| 9763-F-604083    | 1   | TURBINE BLDG VENT SYS EL 46'-0" & 50'-0" |
| 9763-F-604082    | 2   | TURBINE BLDG VENT SYS PLAN EL 21'-0"     |
| 9763-F-604081    | 0   | TURBINE BLDG VENT SYS-ROOF PLAN          |
| 9763-F-604078    | 7   | TURBINE BLDG FD PMP & TURB RM MSFW VENT  |



PID-1-TAH-B20172

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



- NOTES:
- ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS HAVE SYSTEM PREFIX TAII UNLESS NOTED OTHERWISE.
  - WORK THIS DWG. WITH DWG. 28178 AND 28171.
  - ALL LINES, EQUIPMENT, COMPONENTS AND INSTRUMENTS ARE SAFETY CLASS MMS UNLESS NOTED OTHERWISE.
4. LEGEND:
- DUCTED SUPPLY
  - DUCTED RETURN
  - NON DUCTED SUPPLY OR RETURN
  - S - SUCTION PIPING
  - L - LIQUID PIPING
5.  $\Delta$  INDICATES REVISION LEVEL.
6.  $\square$  INDICATES ROOM NUMBER.
7. FLOWS INCREASE OR DECREASE WITHIN THE LIMITS NOTED IN PROPORTION TO THE AMOUNT OF OUTSIDE AIR PROVIDED THROUGH MODULATING DAMPER I-TAH-DP-337.
8. A/C UNITS NO. 93, 94, 95 & 96 ARE BACK UP UNITS TO MAIN A/C UNIT NO. 94 AND NORMALLY DO NOT OPERATE. ROOM OCCUPANTS MAY ADJUST AIR FLOW AS REQUIRED.

| REV | DATE     | DSGN | CHKD | CE  | DESCRIPTION               |
|-----|----------|------|------|-----|---------------------------|
| 5   | 12/13/05 | JM   | BSC  | TW  | INCORP MMOD 95-513 DCH 88 |
| 4   | 2/5/04   | BCS  | JM   | TW  | INCORP DCR 88089 REV. B3  |
| 3   | 5/7/99   | DWS  | BCS  | HMM | INCORP MMOD 970618 DCH 88 |
| 2   | 12/19/95 | MPW  | HMM  | CWL | INCORP MMOD 95-550, CAG   |
| 1   | 5/26/93  | MRB  | BCL  | MPW | INCORP DCR 92-26, CAG     |
| 0   | 7/14/92  | MPW  | MRB  | BCL | ISSUED FOR OPERATIONS     |

**FPL ENERGY** Seabrook Station

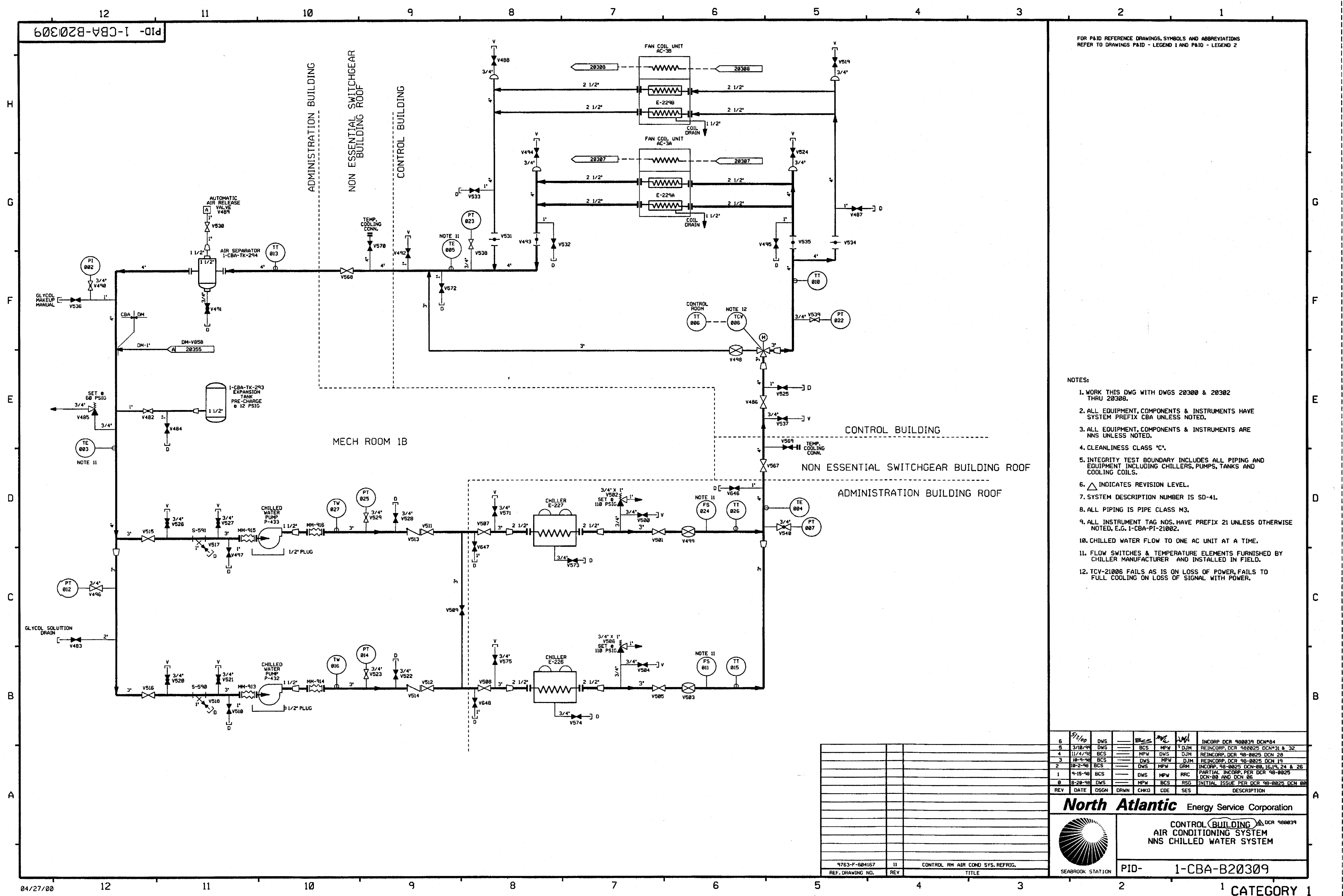


TURBINE BUILDING  
AIR HANDLING  
DETAIL

PID- 1-TAH-B20172

| REF. DRAWING NO. | REV | TITLE                              |
|------------------|-----|------------------------------------|
| 9763-F-684164    | 11  | TURBINE BLDG AIR & BATTERY RM VENT |

12/12/05



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 20300 & 20302 THRU 20308.
  2. ALL EQUIPMENT, COMPONENTS & INSTRUMENTS HAVE SYSTEM PREFIX CBA UNLESS NOTED.
  3. ALL EQUIPMENT, COMPONENTS & INSTRUMENTS ARE NNS UNLESS NOTED.
  4. CLEANLINESS CLASS 'C'.
  5. INTEGRITY TEST BOUNDARY INCLUDES ALL PIPING AND EQUIPMENT INCLUDING CHILLERS, PUMPS, TANKS AND COOLING COILS.
  6.  $\Delta$  INDICATES REVISION LEVEL.
  7. SYSTEM DESCRIPTION NUMBER IS SD-41.
  8. ALL PIPING IS PIPE CLASS M3.
  9. ALL INSTRUMENT TAG NOS. HAVE PREFIX 21 UNLESS OTHERWISE NOTED, E.G. 1-CBA-P1-21002.
  10. CHILLED WATER FLOW TO ONE AC UNIT AT A TIME.
  11. FLOW SWITCHES & TEMPERATURE ELEMENTS FURNISHED BY CHILLER MANUFACTURER AND INSTALLED IN FIELD.
  12. TCV-21006 FAILS AS IS ON LOSS OF POWER, FAILS TO FULL COOLING ON LOSS OF SIGNAL WITH POWER.

|     |         |      |      |      |     |  |
|-----|---------|------|------|------|-----|--|
| 6   | 5/1/00  | DWS  | BCS  | MPW  | DJM | INCORP DCR 980039 DCN#24                         |
| 5   | 3/10/98 | DWS  | BCS  | MPW  | DJM | REINFORP DCR 980025 DCN#31 & 32                  |
| 4   | 11/4/98 | BCS  | MPW  | DWS  | DJM | REINFORP DCR 98-0025 DCN 28                      |
| 3   | 10-4-98 | BCS  | DWS  | MPW  | DJM | REINFORP DCR 98-0025 DCN 19                      |
| 2   | 10-2-98 | BCS  | DWS  | MPW  | DJM | INCORP 98-0025 DCN-00, 16, 19, 24 & 26           |
| 1   | 9-15-98 | BCS  | DWS  | MPW  | RRC | PARTIAL INCORP PER DCR 98-0025 DCN-00 AND DCN 06 |
| 0   | 8-29-98 | DWS  | MPW  | BCS  | RSG | INITIAL ISSUE PER DCR 98-0025 DCN 00             |
| REV | DATE    | DSGN | DRWN | CHKD | CDE | SES  |

**North Atlantic** Energy Service Corporation

SEABROOK STATION

CONTROL BUILDING  
AIR CONDITIONING SYSTEM  
NNS CHILLED WATER SYSTEM

DCR 980039

PID- 1-CBA-B20309

CATEGORY 1

|                  |     |                                  |
|------------------|-----|----------------------------------|
| 9763-F-604167    | II  | CONTROL RM AIR COND SYS, REFRIG. |
| REF. DRAWING NO. | REV | TITLE                            |