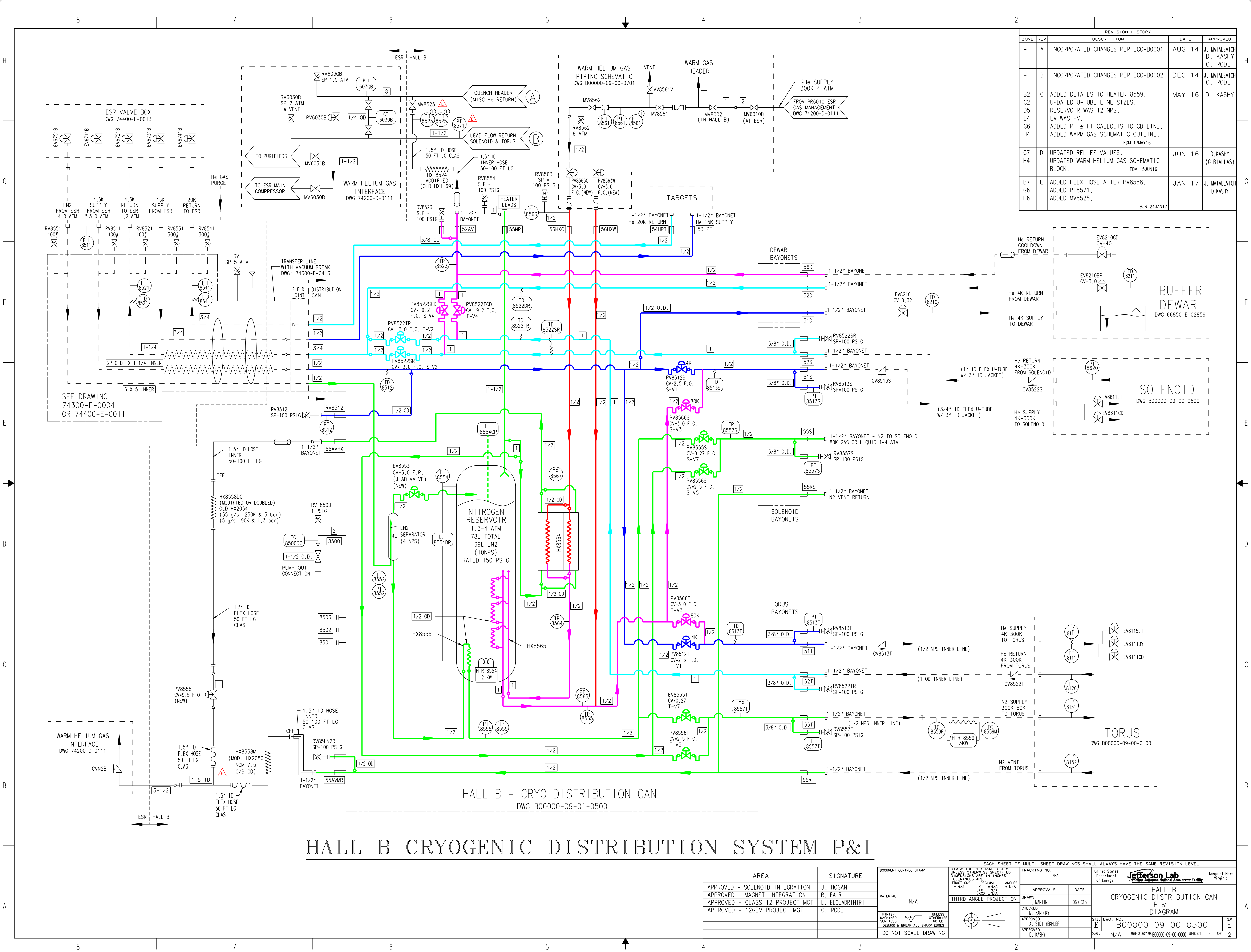
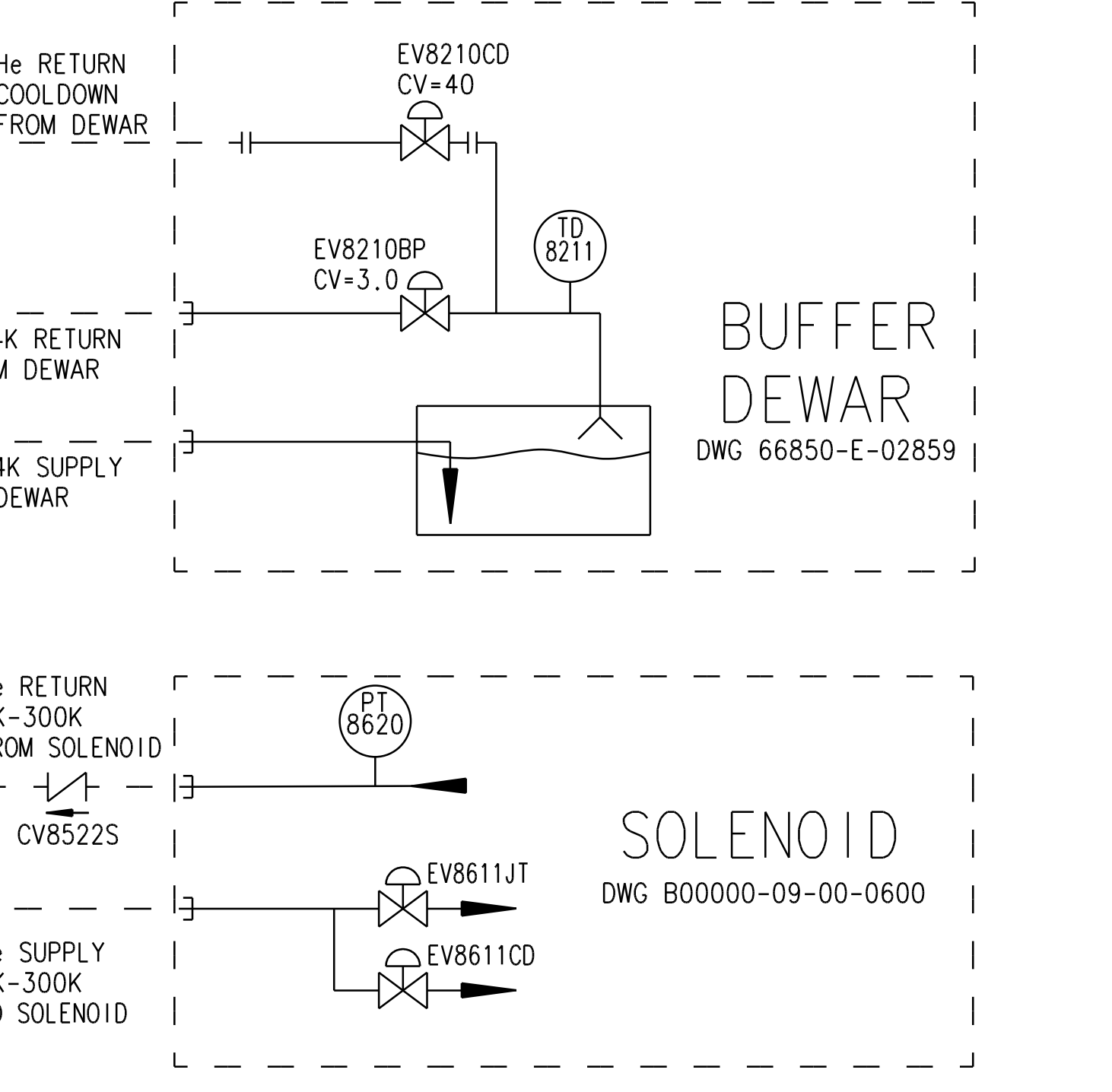
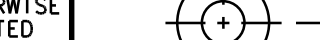


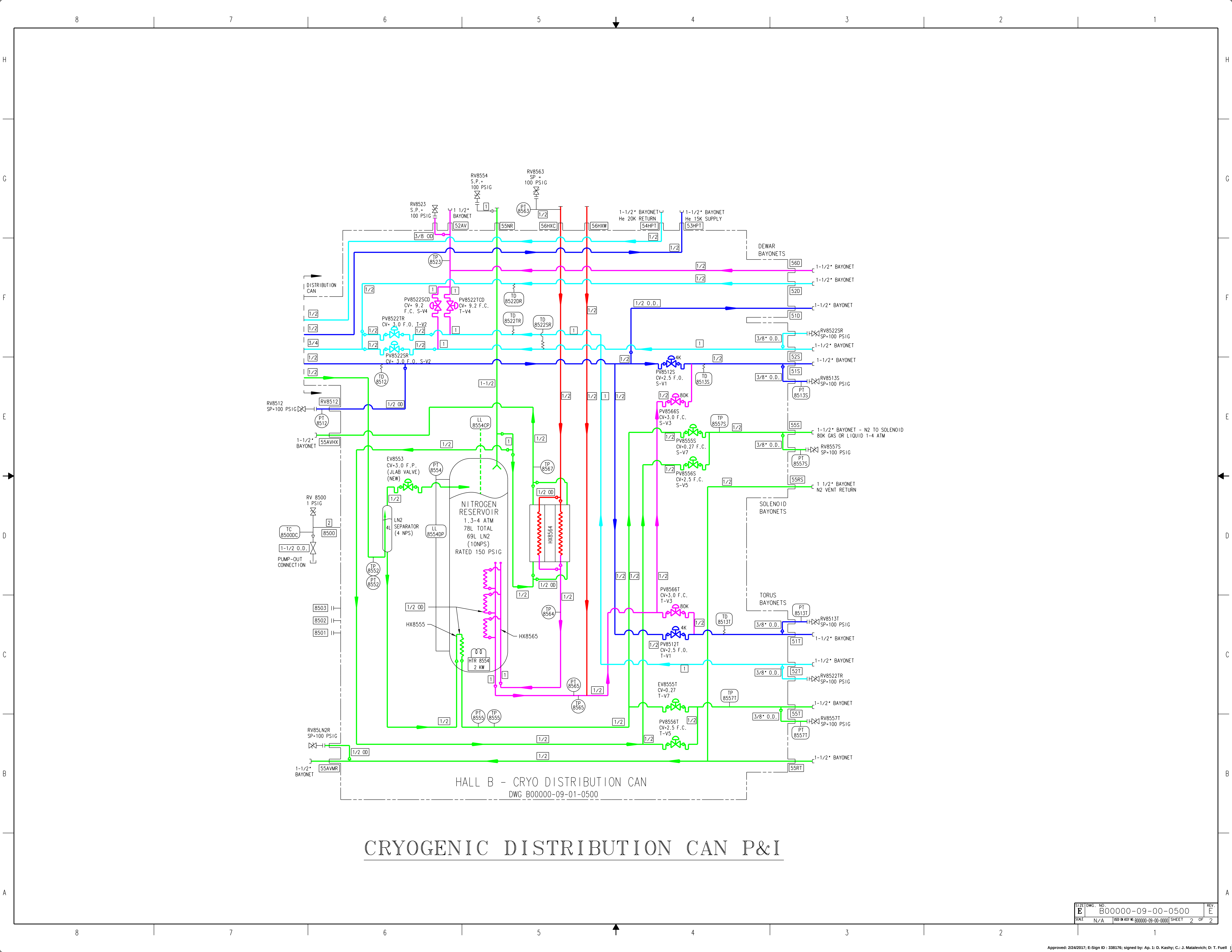


| REVISION HISTORY                 |     |                                                                                                                                                                                              |        |                                      |
|----------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|
| ZONE                             | REV | DESCRIPTION                                                                                                                                                                                  | DATE   | APPROVED                             |
| -                                | A   | INCORPORATED CHANGES PER ECO-B0001.                                                                                                                                                          | AUG 14 | J. MATALEVICH<br>D. KASHY<br>C. RODE |
| -                                | B   | INCORPORATED CHANGES PER ECO-B0002.                                                                                                                                                          | DEC 14 | J. MATALEVICH<br>C. RODE             |
| B2<br>C2<br>D5<br>E4<br>G6<br>H4 | C   | ADDED DETAILS TO HEATER 8559.<br>UPDATED U-TUBE LINE SIZES.<br>RESERVOIR WAS 12 NPS.<br>EV WAS PV.<br>ADDED P1 & F1 CALLOUTS TO CD LINE.<br>ADDED WARM GAS SCHEMATIC OUTLINE.<br>FDM 17MAY16 | MAY 16 | D. KASHY                             |
| G7<br>H4                         | D   | UPDATED RELIEF VALUES.<br>UPDATED WARM HELIUM GAS SCHEMATIC<br>BLOCK.<br>FDM 15JUN16                                                                                                         | JUN 16 | D. KASHY<br>(G.BIALLAS)              |
| B7<br>G6<br>H6                   | E   | ADDED FLEX HOSE AFTER PV8558.<br>ADDED PT8571.<br>ADDED MV8525.                                                                                                                              | JAN 17 | J. MATALEVICH<br>D. KASHY            |
| BJR 24JAN17                      |     |                                                                                                                                                                                              |        |                                      |



# HALL B CRYOGENIC DISTRIBUTION SYSTEM P&I

|                                 |  |                 |                                                  |                                                                                                                                                                  |                                                                                       |                                        |                                          |                                                          |                                                                 |              |                          |
|---------------------------------|--|-----------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|--------------|--------------------------|
| AREA                            |  | SIGNATURE       | DOCUMENT CONTROL STAMP                           | UNIT & TOL PER ASME Y14.5<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>FRACTIONS DECIMAL ANGLES<br>X ± N/A XX ± N/A XXX ± N/A |                                                                                       | TRACKING NO.<br>N/A                    | United States<br>Department of<br>Energy |                                                          | Jefferson Lab<br>Thomas Jefferson National Accelerator Facility |              | Newport News<br>Virginia |
| APPROVED - SOLENOID INTEGRATION |  | J. HOGAN        | MATERIAL<br><br>N/A                              | THIRD ANGLE PROJECTION                                                                                                                                           |  | APPROVALS                              | DATE                                     | HALL B<br>CRYOGENIC DISTRIBUTION CAN<br>P & I<br>DIAGRAM |                                                                 |              |                          |
| APPROVED - MAGNET INTEGRATION   |  | R. FAIR         |                                                  |                                                                                                                                                                  |                                                                                       | DRAWN<br>MARTIN                        | 06DEC13                                  |                                                          |                                                                 |              |                          |
| APPROVED - CLASS 12 PROJECT MGT |  | L. ELUADIRIHIRI |                                                  |                                                                                                                                                                  |                                                                                       | CHECKED<br>M. ZARECKY                  |                                          |                                                          |                                                                 |              |                          |
| APPROVED - 12GEV PROJECT MGT    |  | C. RODE         |                                                  |                                                                                                                                                                  |                                                                                       | APPROVED<br>D. KASHY                   |                                          |                                                          |                                                                 |              |                          |
|                                 |  |                 | FINISH<br>N/A                                    | UNLESS<br>OTHERWISE<br>NOTED                                                                                                                                     |                                                                                       | SIZE (DWG. NO.)<br>E B00000-09-00-0500 |                                          | REV.<br>E                                                |                                                                 |              |                          |
|                                 |  |                 | SURFACES<br>SEMI-FINISH<br>BREAK ALL SHARP EDGES |                                                                                                                                                                  |                                                                                       | SCALE<br>N/A                           |                                          | KEEP IN KIST W/ B00000-09-00-0000                        |                                                                 | SHEET 1 OF 2 |                          |
|                                 |  |                 | DO NOT SCALE DRAWING                             |                                                                                                                                                                  |                                                                                       |                                        |                                          |                                                          |                                                                 |              |                          |



CRYOGENIC DISTRIBUTION CAN P&I

|       |                                     |        |
|-------|-------------------------------------|--------|
| SIZE  | DWG. NO.                            | REV.   |
| E     | 800000-09-00-0500                   | E      |
| SCALE | N/A                                 | REV.   |
|       | BASED ON ASSY NO. 800000-09-00-0000 | 2 OF 2 |