

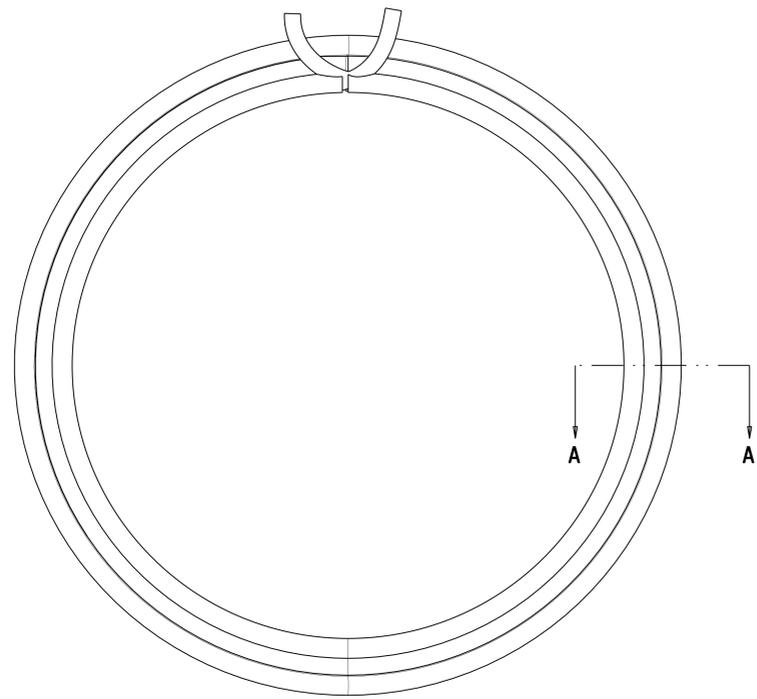
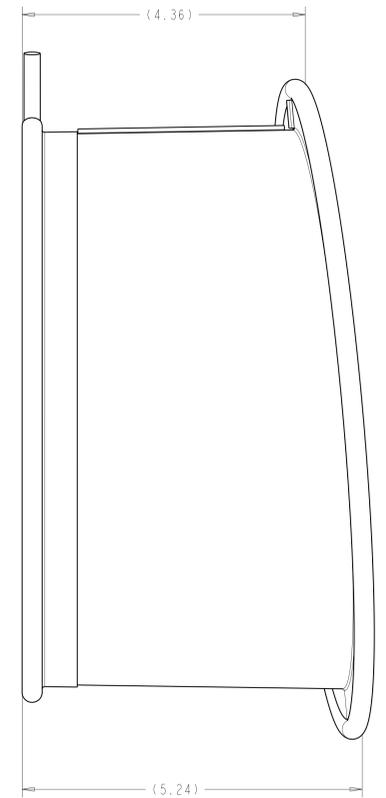
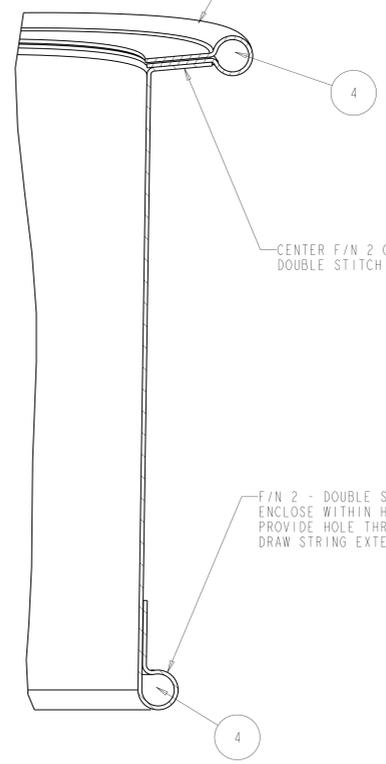
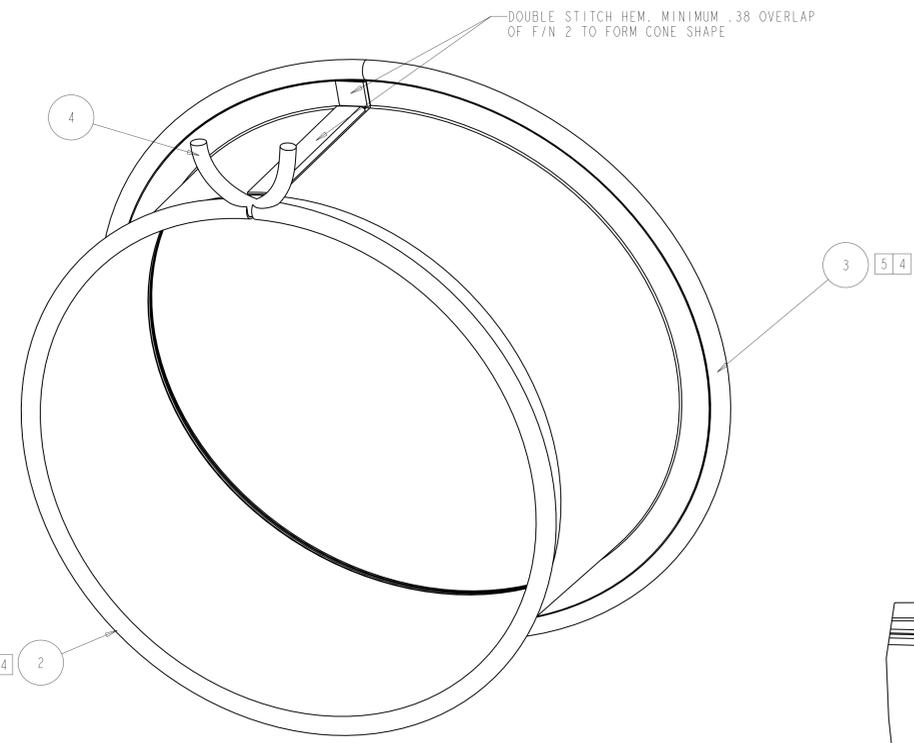
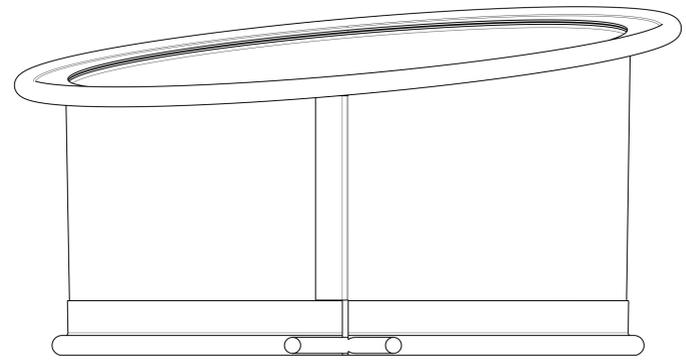
- NOTES
1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2004.
  2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
  3. DIMENSIONS ARE IN INCHES
  4. FLAT PATTERNS TO BE CREATED FROM FULL SIZE PLOT.
  5. VERIFY HEM PROFILE IN ASSEMBLY SE122-344.

F/N 3 - DOUBLE STITCH HEM WITH MINIMUM .38 OVERLAP ENCLOSE WITHIN HEM  $\varnothing$ .25 ROPE, F/N 4, TO ACT AS A GASKET. THE ENDS OF THE ROPE MUST BE COMPLETELY ENCLOSED WITHIN HEM. THE ENDS OF THE ROPE MUST TOUCH WITHIN THE HEM BUT MAY NOT OVERLAP, CREATING A BULGE. 5

CENTER F/N 2 ON F/N 3 WITH MINIMUM .38 OVERLAP. DOUBLE STITCH HEM ALL AROUND OPENING IN F/N 3

F/N 2 - DOUBLE STITCH HEM WITH MINIMUM .38 OVERLAP ENCLOSE WITHIN HEM  $\varnothing$ .25 ROPE, F/N 4, TO ACT AS A DRAW STRING. PROVIDE HOLE THRU THE HEM SO THAT THE ENDS OF THE DRAW STRING EXTEND A MINIMUM OF 6" PER LEAD (12" TOTAL).

DOUBLE STITCH HEM, MINIMUM .38 OVERLAP OF F/N 2 TO FORM CONE SHAPE



ISOMETRIC VIEW  
SCALE 1.000

SECTION A-A  
SCALE 2.000

-1 PORT 5 WINDING FORM SEAL BOOT ASSEMBLY  
SCALE 1.000

| REV | DESCRIPTION    | BY  | DATE  | CHK | DEPT | DATE  | PE | REQ | DATE | ORNL | DOE | DATE |
|-----|----------------|-----|-------|-----|------|-------|----|-----|------|------|-----|------|
| 0   | ORIGINAL ISSUE | RAH | 01/07 | SP  |      | 01/07 |    |     |      |      |     |      |

| CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION            | MATERIAL | SPECIFICATION   | FIND NO |
|-----------|------------------------|--|----------|-----------------|---------|
| AR        | -4                     | $\varnothing$ .25 ROPE                 |          | NCSX-PRL-12-001 | 4       |
| 5 4       | 1                      | PORT 5 WINDING FORM SEAL BOOT BACK     |          | NCSX-PRL-12-001 | 3       |
| 4         | 1                      | PORT 5 WINDING FORM SEAL BOOT CONE     |          | NCSX-PRL-12-001 | 2       |
| AR        | -1                     | PORT 5 WINDING FORM SEAL BOOT ASSEMBLY |          |                 | 1       |

← NEXT ASSEMBLY

**UT-BATTELLE**  
Oak Ridge National Laboratory  
managed for the DEPARTMENT OF ENERGY under  
U.S. GOVERNMENT CONTRACT DE-AC05-00OR22725  
UT-BATTELLE, LLC. Oak Ridge, Tennessee  
PROJECT SWAC

**NATIONAL COMPACT STELLARATOR EXPERIMENT**

**PORT 5 WINDING FORM SEAL BOOT ASSEMBLY**

|           |                |       |
|-----------|----------------|-------|
| DES       | P. L. GORANSON | 01/07 |
| DRW       | R. A. HURD     | 01/07 |
| CHK       | S. PARSON      | 01/07 |
| PPPL DRFT | J. SIEGEL      | 01/07 |

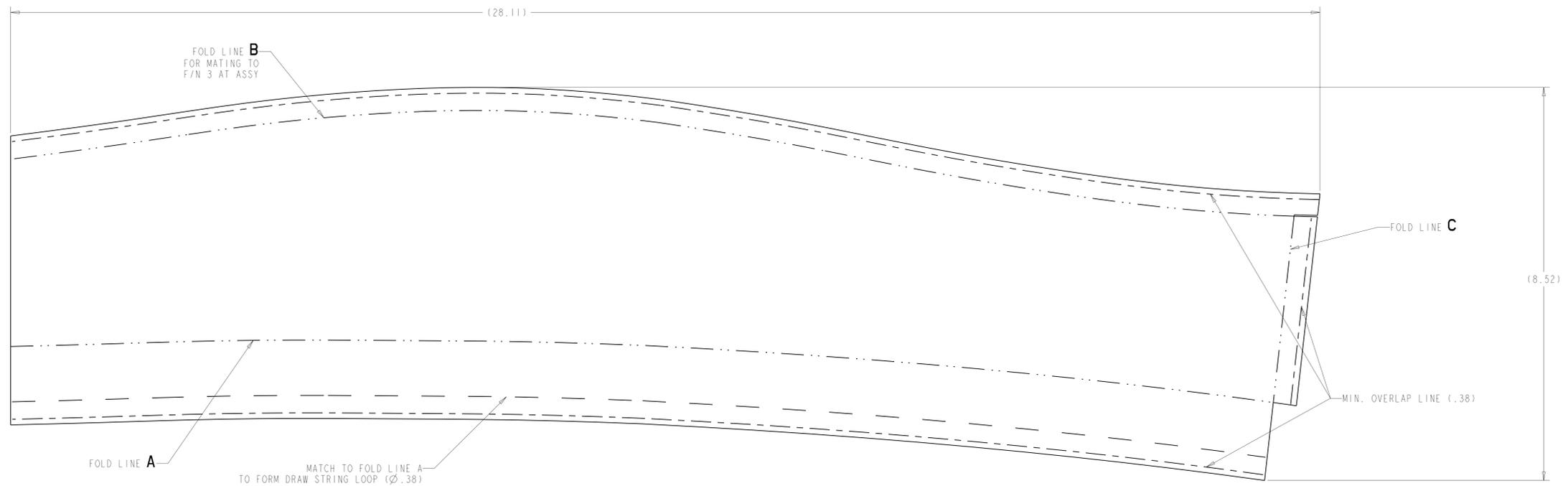
VERSION NO. 4+  
PLANT ORNL  
BLDG 5700  
FL 3  
SHT 1  
OF 2  
TYPE A  
CLASS U  
RELEASE LEVEL WIP  
SE122-347  
REV 0

NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF, ANY INFORMATION, APPARATUS, METHOD OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE NOT TO BE USED FOR OTHER PURPOSES, AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

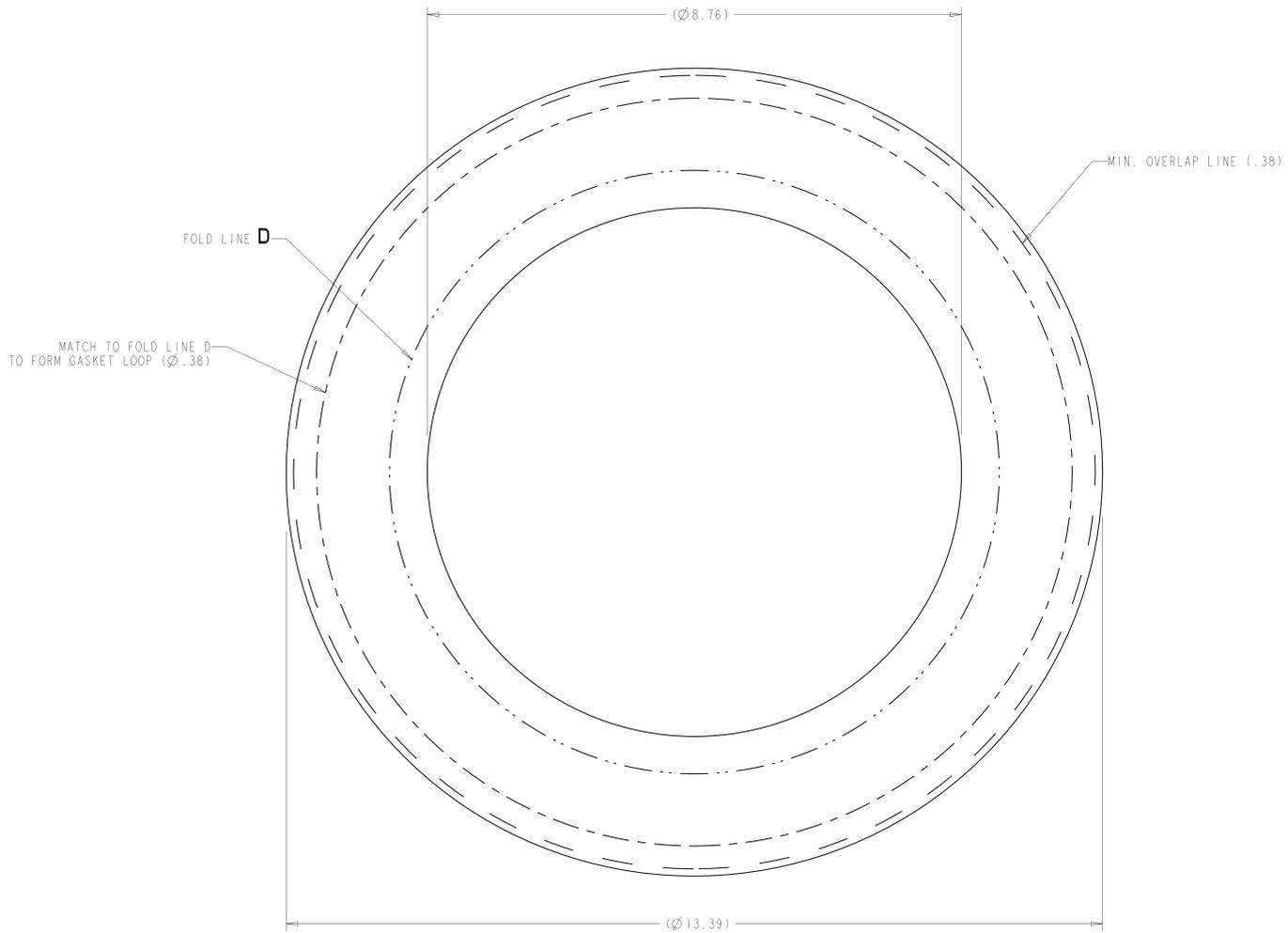
**P** THIS DRAWING PRODUCED ON PRO-ENGINEER

| REV | DESCRIPTION    | BY  | DATE  | CHK | DEPT | DATE  | PE | REQ | DATE | ORNL | DOE | DATE |
|-----|----------------|-----|-------|-----|------|-------|----|-----|------|------|-----|------|
| 0   | ORIGINAL ISSUE | RAH | 01/07 | SP  |      | 01/07 |    |     |      |      |     |      |

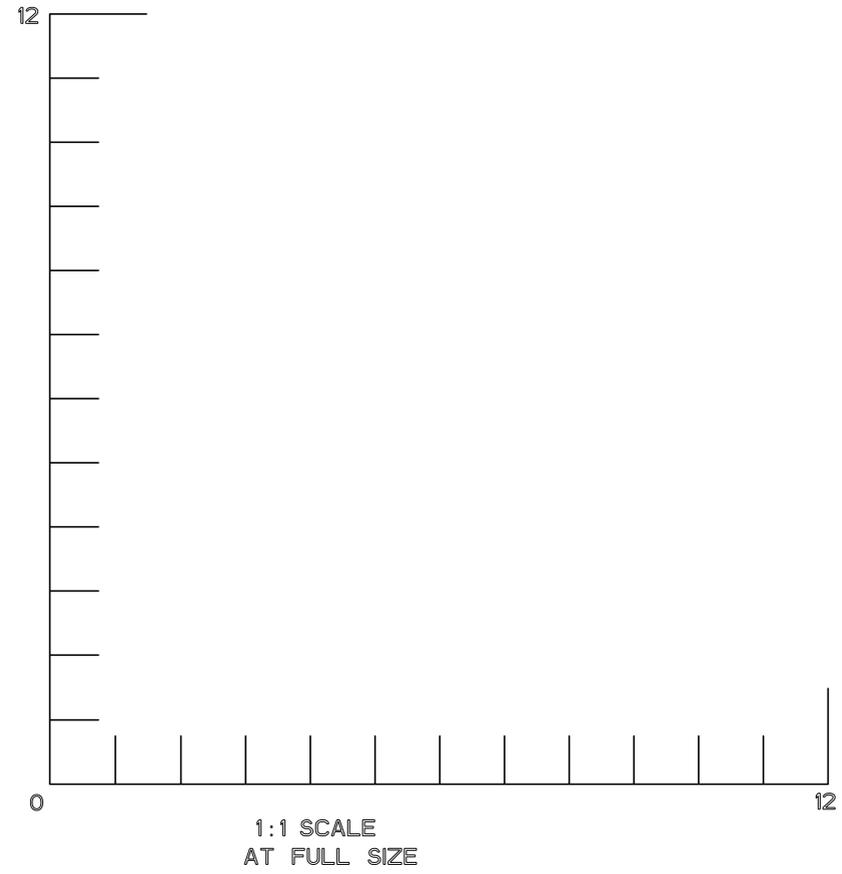
| SCALE                                 | NOTED                            |
|---------------------------------------|----------------------------------|
| TOLERANCES UNLESS OTHERWISE SPECIFIED |                                  |
| FRACTIONS                             | ±.01                             |
| XX DECIMALS                           | ±.005                            |
| XXX DECIMALS                          | ±.0015                           |
| ANGLES                                | ±.015°                           |
| BREAK SHARP EDGES OR MAX FINISH       | ±.025 UNLESS OTHERWISE SPECIFIED |



**-2 FLAT PATTERN** 4  
SCALE 1.000



**-3 FLAT PATTERN** 4  
SCALE 1.000



|   |       |           |    |     |    |      |       |     |  |
|---|-------|-----------|----|-----|----|------|-------|-----|--|
| Oak Ridge National Laboratory<br>managed for the DEPARTMENT OF ENERGY under<br>U.S. GOVERNMENT contract DE-AC05-00OR22725<br>UT-BATTELLE, LLC, Oak Ridge, Tennessee<br>PROJECT NAME |       |           |    |     |    |      |       |     |  |
| <b>UT-BATTELLE</b><br><b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>  |       |           |    |     |    |      |       |     |  |
| <b>PORT 5 WINDING FORM SEAL<br/>         BOOT ASSEMBLY</b>  |       |           |    |     |    |      |       |     |  |
| VERSION NO.   | PLANT | BLDG      | FL | SHT | OF | TYPE | CLASS |     |  |
| 4+  | ORNL  | 5700      | 3  | 2   | 2  | A    | U     |     |  |
| RELEASE LEVEL   |       | SE122-347 |    |     |    |      |       | REV |  |
| WIP   |       |           |    |     |    |      |       | 0   |  |