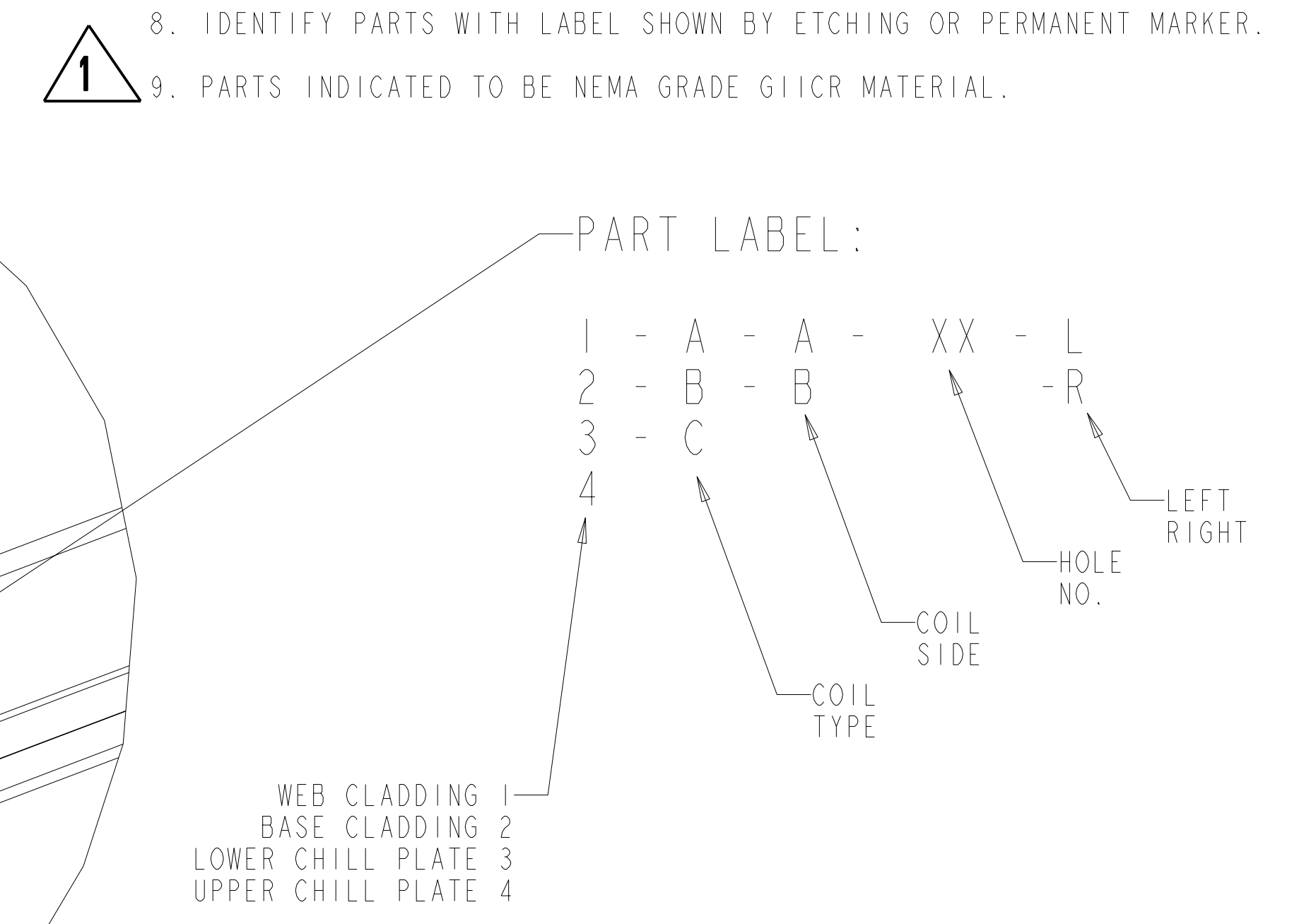
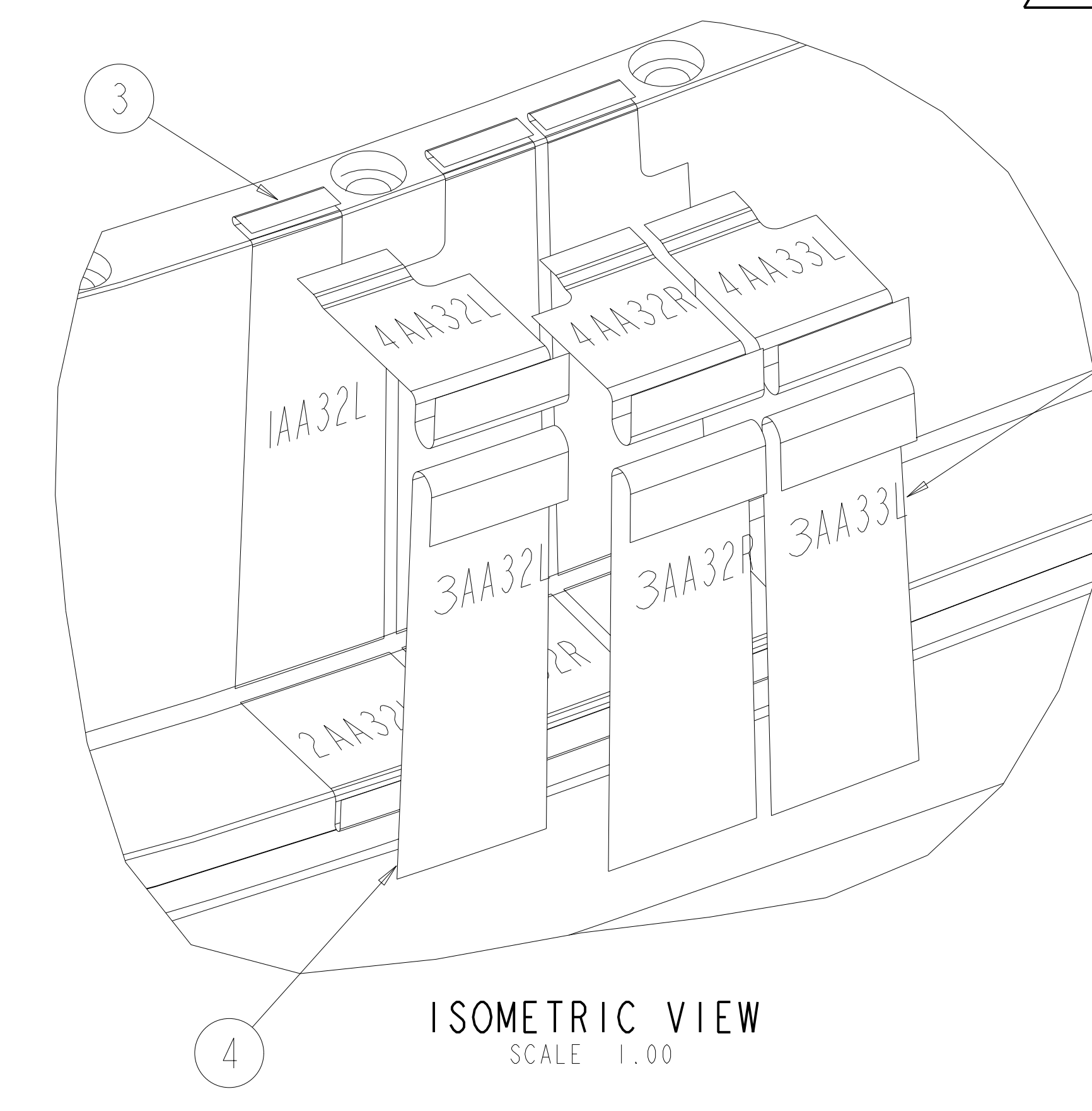
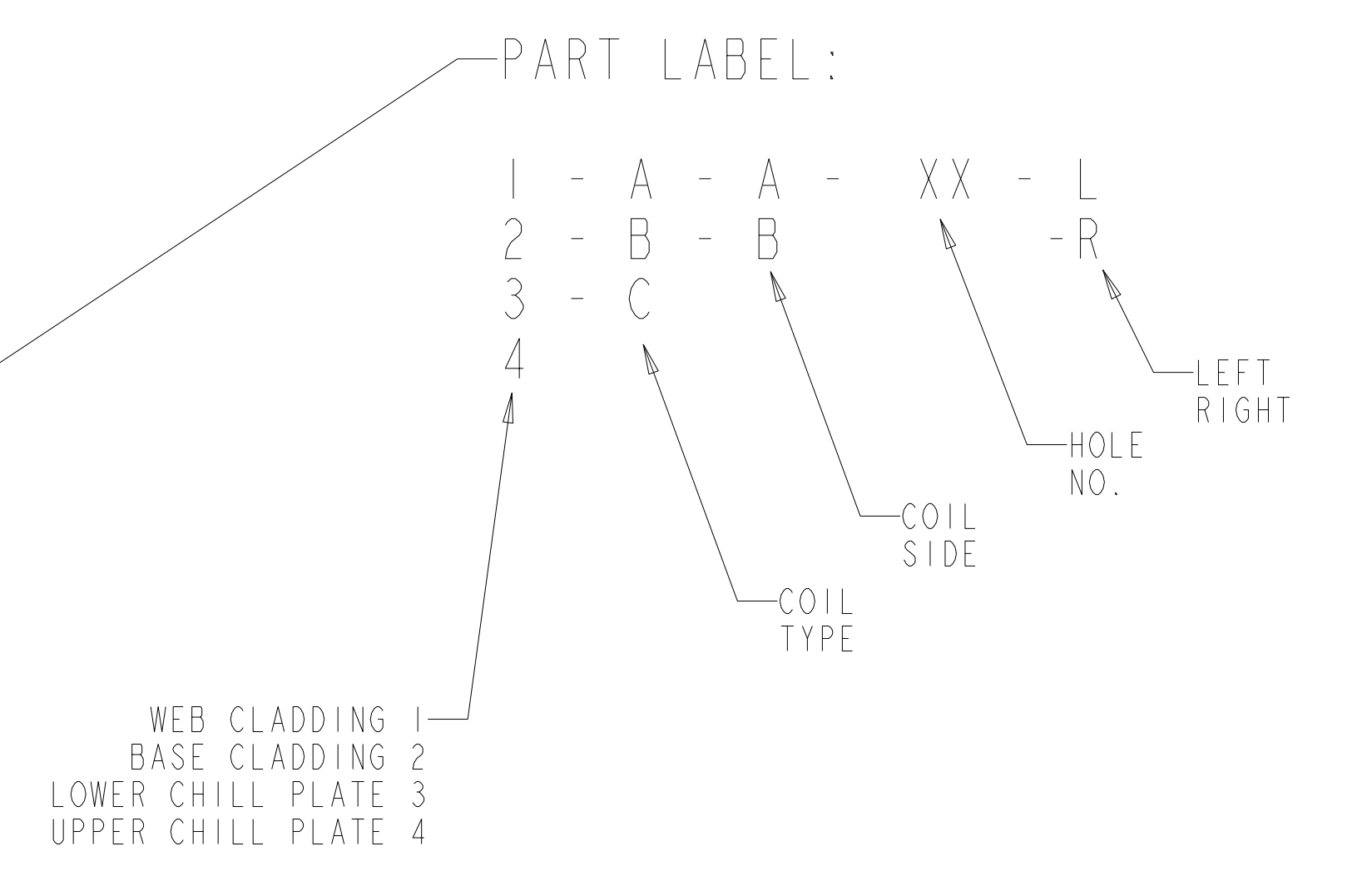


1 TYPE-A SIDE-B ASM
SCALE 0.25

- NOTES:
1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2000.
 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
 3. DIMENSIONS ARE IN INCHES.
 4. DRAWING DEPICTS FLAT PATTERN OF FORMED PARTS DEFINED BY PRO/E MODELS SE142A-245.PRT AND SE142A-247.PRT.
 5. PROFILE TOLERANCE OF FLAT PATTERN IS +/- .010 IN.
 6. THICKNESS IS 0.040 +/- .006 IN. PER ASTM B248.
 7. REMOVE ALL BURRS AND SHARP EDGES.
 8. IDENTIFY PARTS WITH LABEL SHOWN BY ETCHING OR PERMANENT MARKER.
 9. PARTS INDICATED TO BE NEMA GRADE GIICR MATERIAL.



RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting:



REV	DESCRIPTION	BY	DATE	CHK	DEPT	DATE	PE	REQ	DATE	ORNL	DOE	DATE
1	REVISE PARTS AND DRAWING PER ECN 5140	GLL	7-06	MJC			DEW					

CAGE CODE	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPECIFICATION	FIND NO
378	SE142A-247	CHILL PLATES	COPPER, ANNEALED UNS C10100, C10200, C11000 ETP OR NEMA GRADE GIICR WHERE NOTED	4
386	SE142A-245	CLADDING	COPPER, ANNEALED UNS C10100, C10200, C11000 ETP OR NEMA GRADE GIICR WHERE NOTED	3
I	SE141-114-SIM	TYPE-A MODULAR COIL WINDING FORM		2
AR X	-	TYPE-A SIDE-B CLADDING AND CHILL PLATES		1

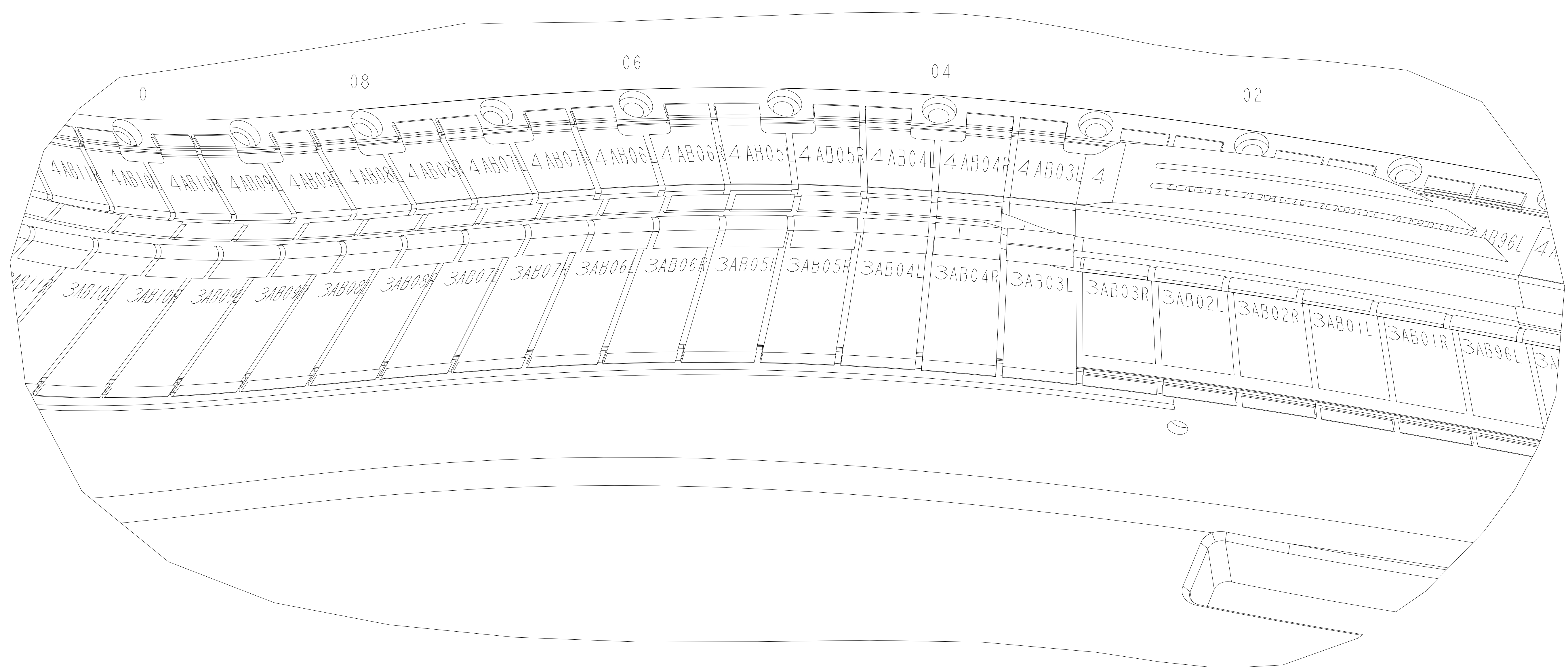
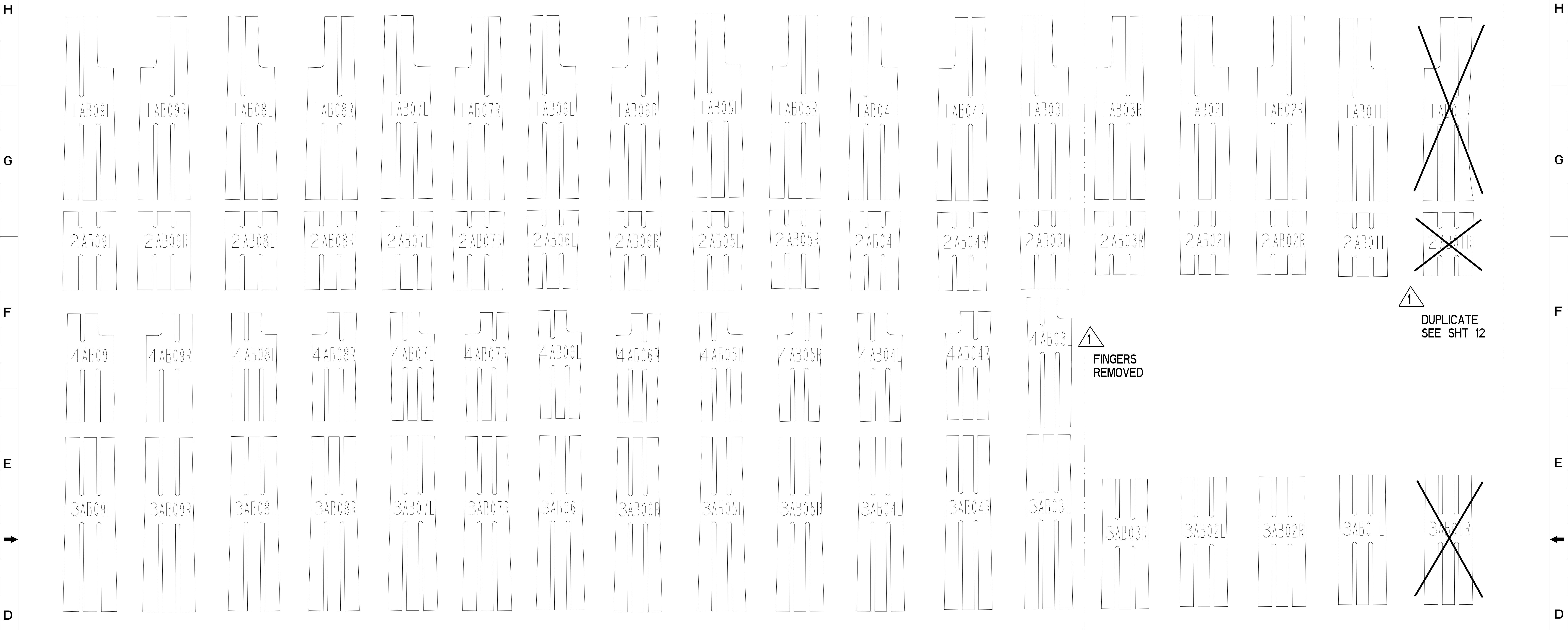
SE140-101 ← NEXT ASSEMBLY

PARTS LIST

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

SCALE NOTED		DES: T. HARGROVE 3/06	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 NAME: NATIONAL COMPACT STELLARATOR EXPERIMENT MODULAR COIL TYPE-A SIDE-B CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT
TOLERANCES UNLESS OTHERWISE SPECIFIED		DRW: D. WILLIAMSON 3/06	
FRACTIONS		CHK: M. COLE 3/06	
XX DECIMALS ±.01		SECT: :	
XXX DECIMALS ±.005		DEPT: :	
ANGLES ±0°15'		PE: D. WILLIAMSON 3/06	
BREAK SHARP EDGES OR MAX FINISH .125 UNLESS OTHERWISE SPECIFIED		CR: :	
		PJ: :	
		REQ: :	
		REV: :	
		PPPL DRFT J. SIEGEL 3/06	
		VERSION NO. 6	
		PLANT X-10	
		BLDG 5700	
		FL 3	
		SHT 12	
		OF 12	
		TYPE S	
		CLASS U	
		RELEASE LEVEL	
		Fabrication	
		SE142A-242	
		REV 1	



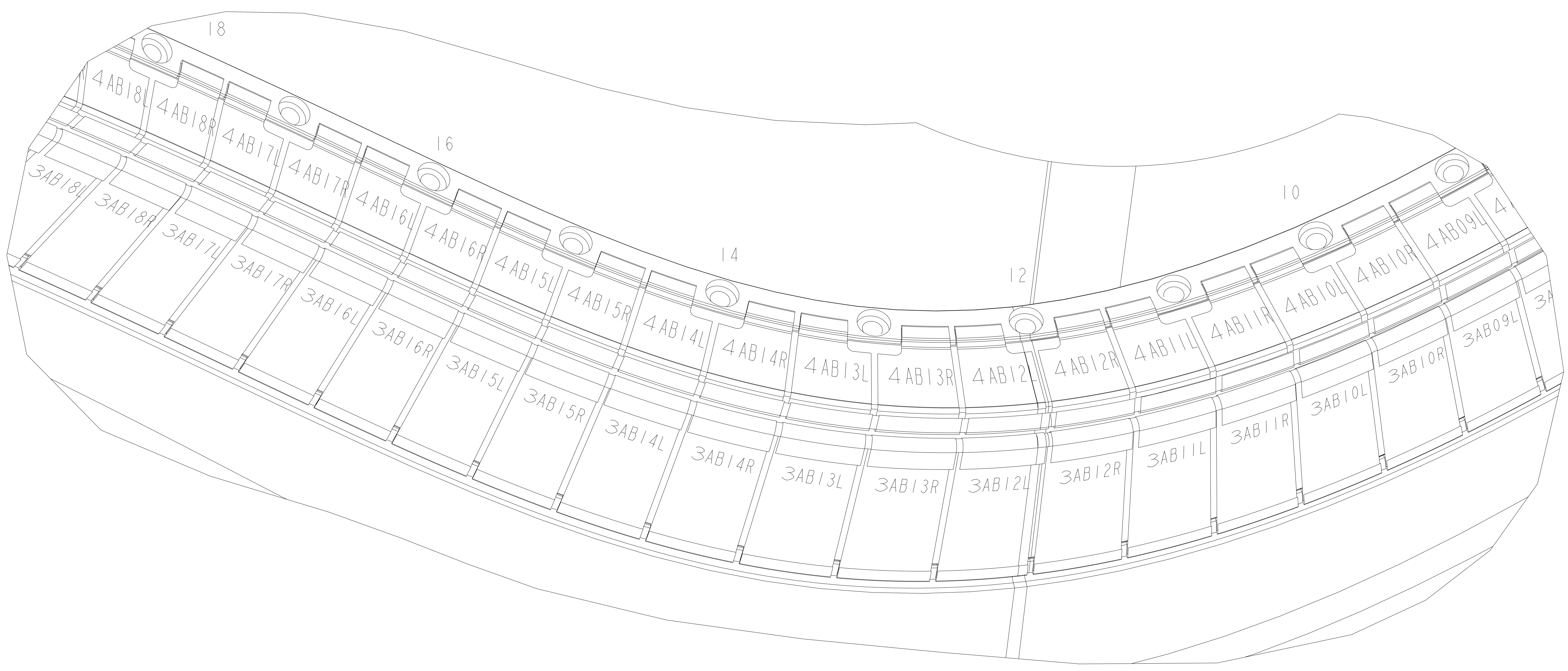
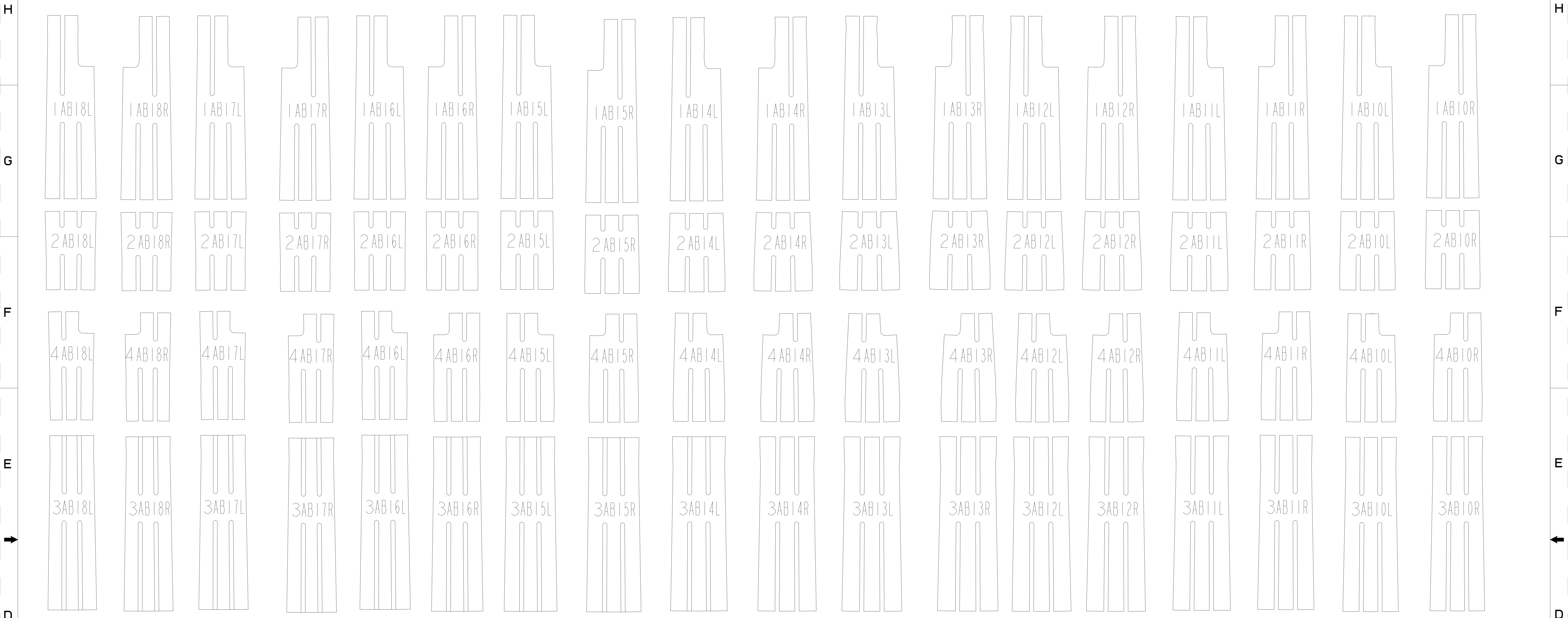
PICTORIAL VIEW SCALE 1.00

**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

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 NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-A			
SIDE-B CLADDING AND CHILL PLATES			
FLAT PATTERN LAYOUT			
VERSION NO. 6	PLANT X-10	BLDG 5700	FL SHT OF TYPE CLASS 3 2 12 S U
RELEASE LEVEL Fabrication		SE 142A-242	

SE 142A-242

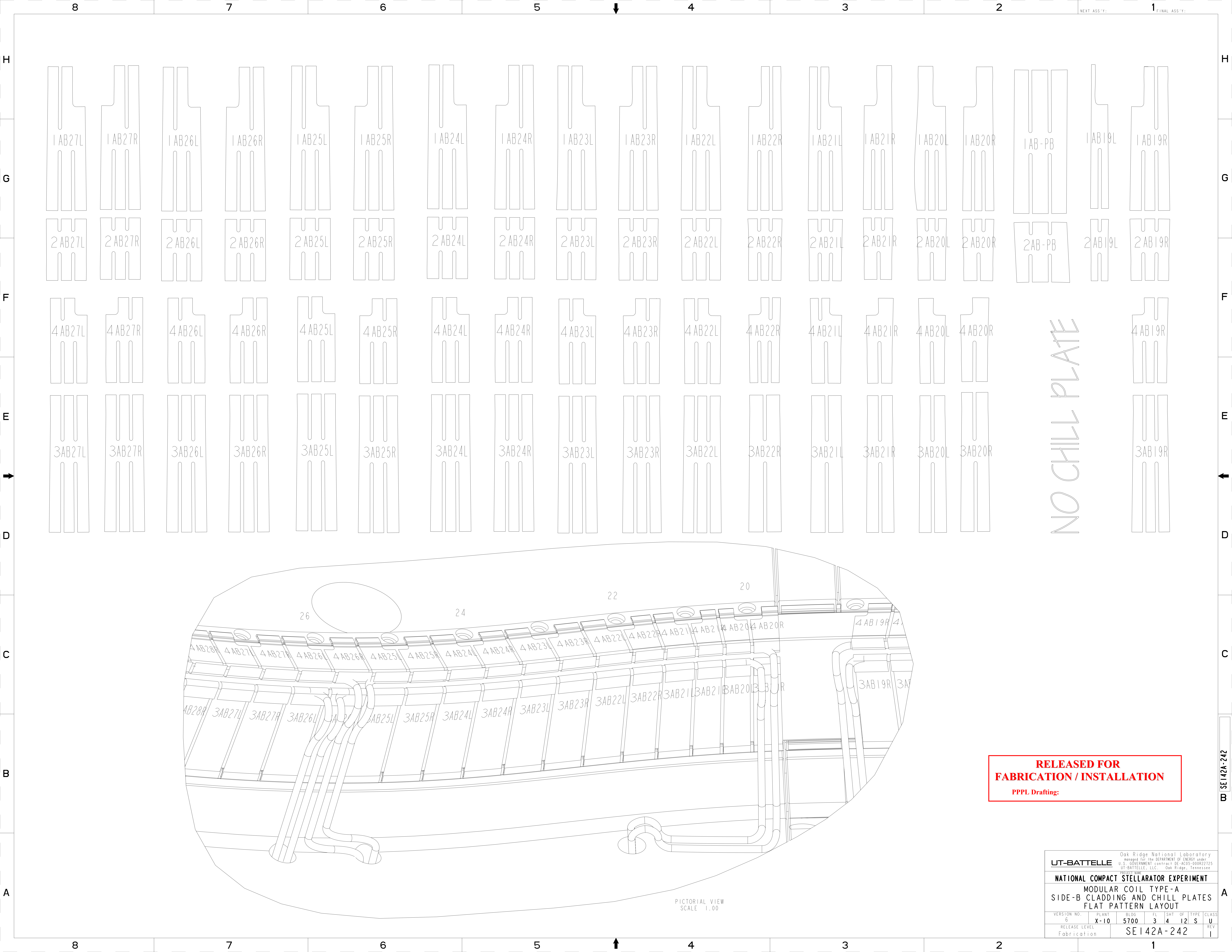
A



PICTORIAL VIEW SCALE 1.00

RELEASED FOR FABRICATION / INSTALLATION
 PPPL Drafting:

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 NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-A			
SIDE-B CLADDING AND CHILL PLATES			
FLAT PATTERN LAYOUT			
VERSION NO. 6	PLANT X-10	BLDG 5700	FL SHT OF TYPE CLASS 3 3 12 S U
RELEASE LEVEL Fabrication		SE 142A-242	



NO CHILL PLATE

**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

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 NAME NATIONAL COMPACT STELLATOR EXPERIMENT			
MODULAR COIL TYPE-A SIDE-B CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT			
VERSION NO. 6	PLANT X-10	BLDG 5700	FL SHT OF TYPE CLASS 3 4 12 S U
RELEASE LEVEL Fabrication		SE142A-242	

PICTORIAL VIEW
SCALE 1.00

242-V242
SE142A-242

8

7

6

5

4

3

2

1

NEXT ASS'Y:

FINAL ASS'Y:

H

H

G

G

F

F

E

E

D

D

C

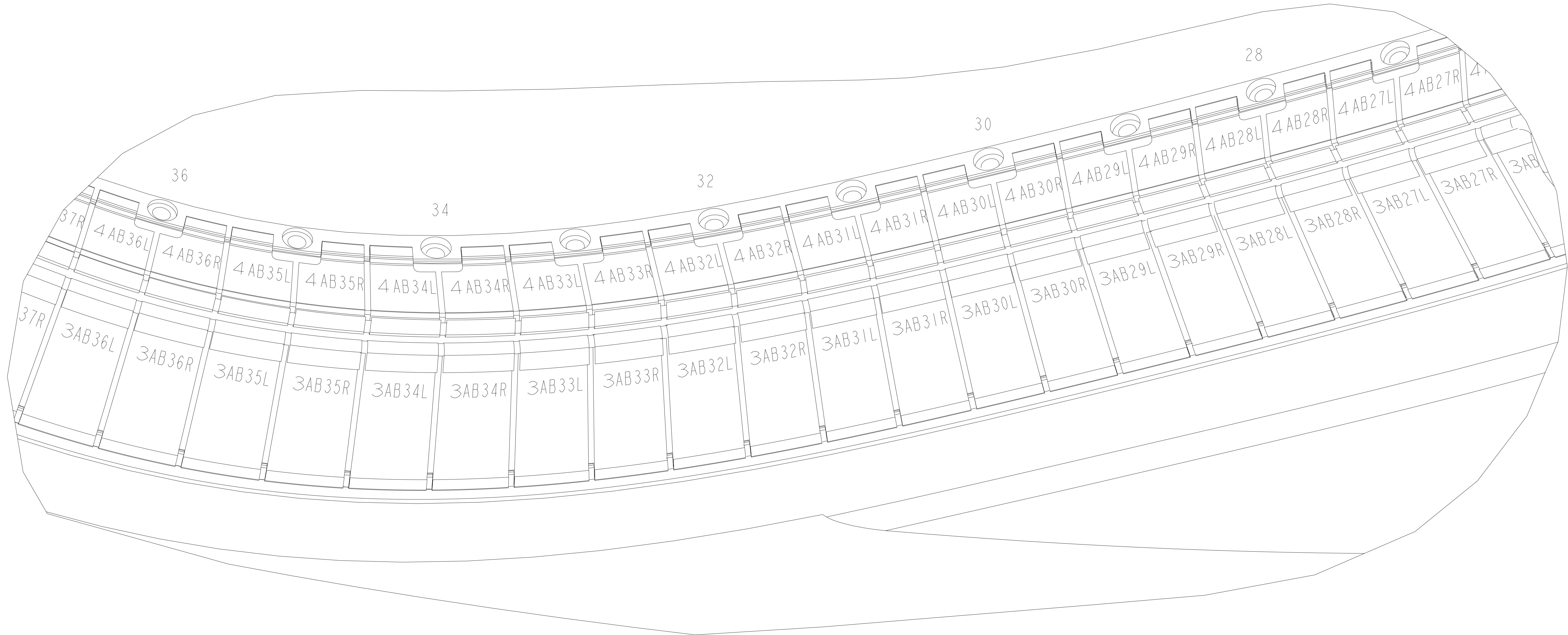
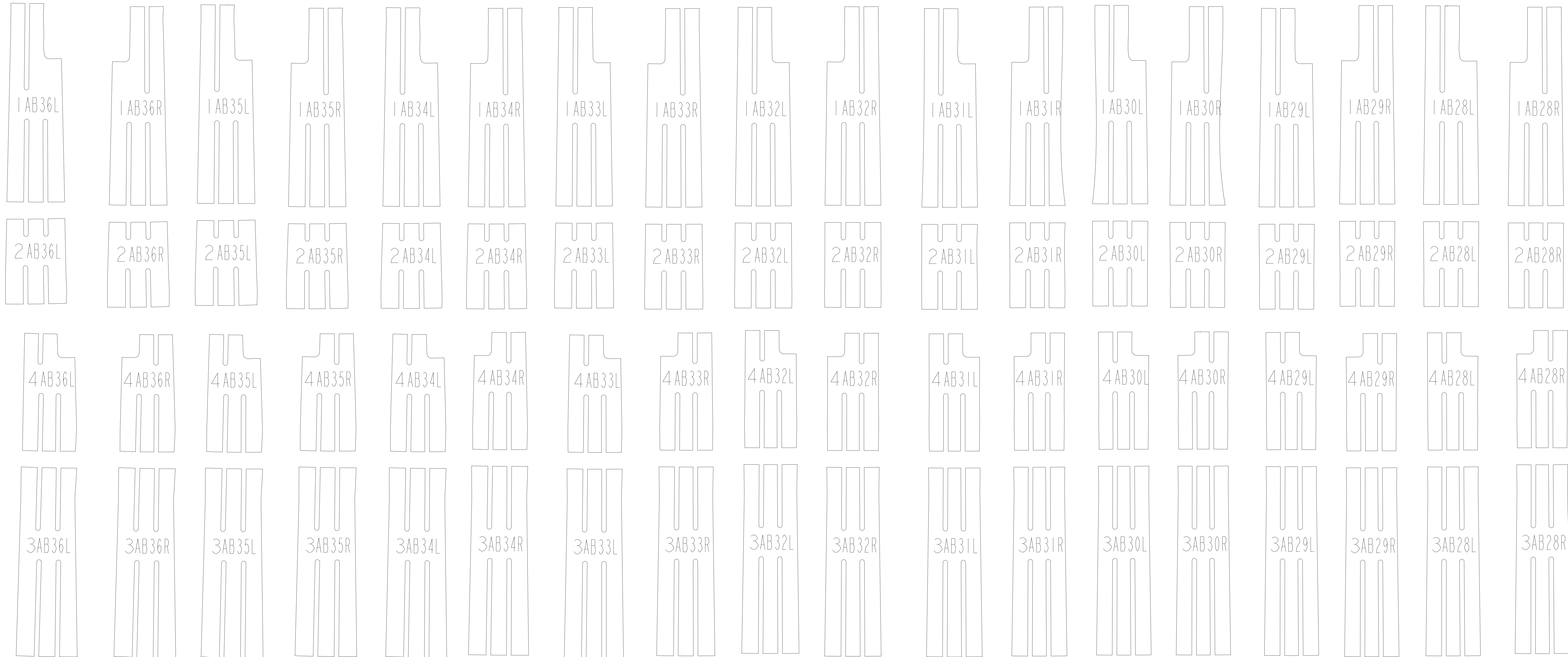
C

B

B

A

A



**RELEASED FOR
FABRICATION / INSTALLATION**

PPPL Drafting:

PICTORIAL VIEW
SCALE 1.00

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 NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-A SIDE-B CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT			
VERSION NO. 6	PLANT X-10	BLDG 5700	FL SHT OF TYPE CLASS 3 5 12 S U
RELEASE LEVEL Fabrication		SE 142A-242	

8

7

6

5

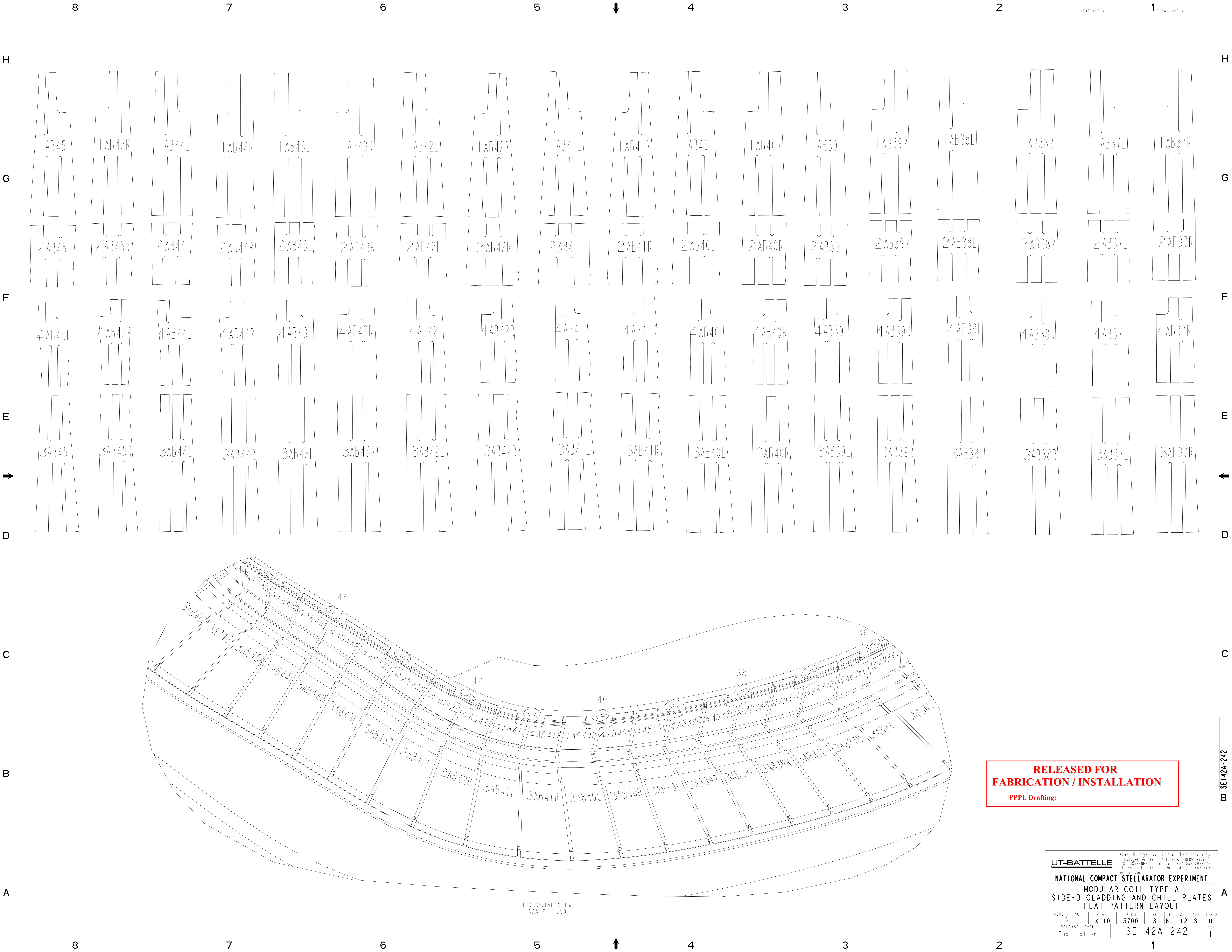
4

3

2

1

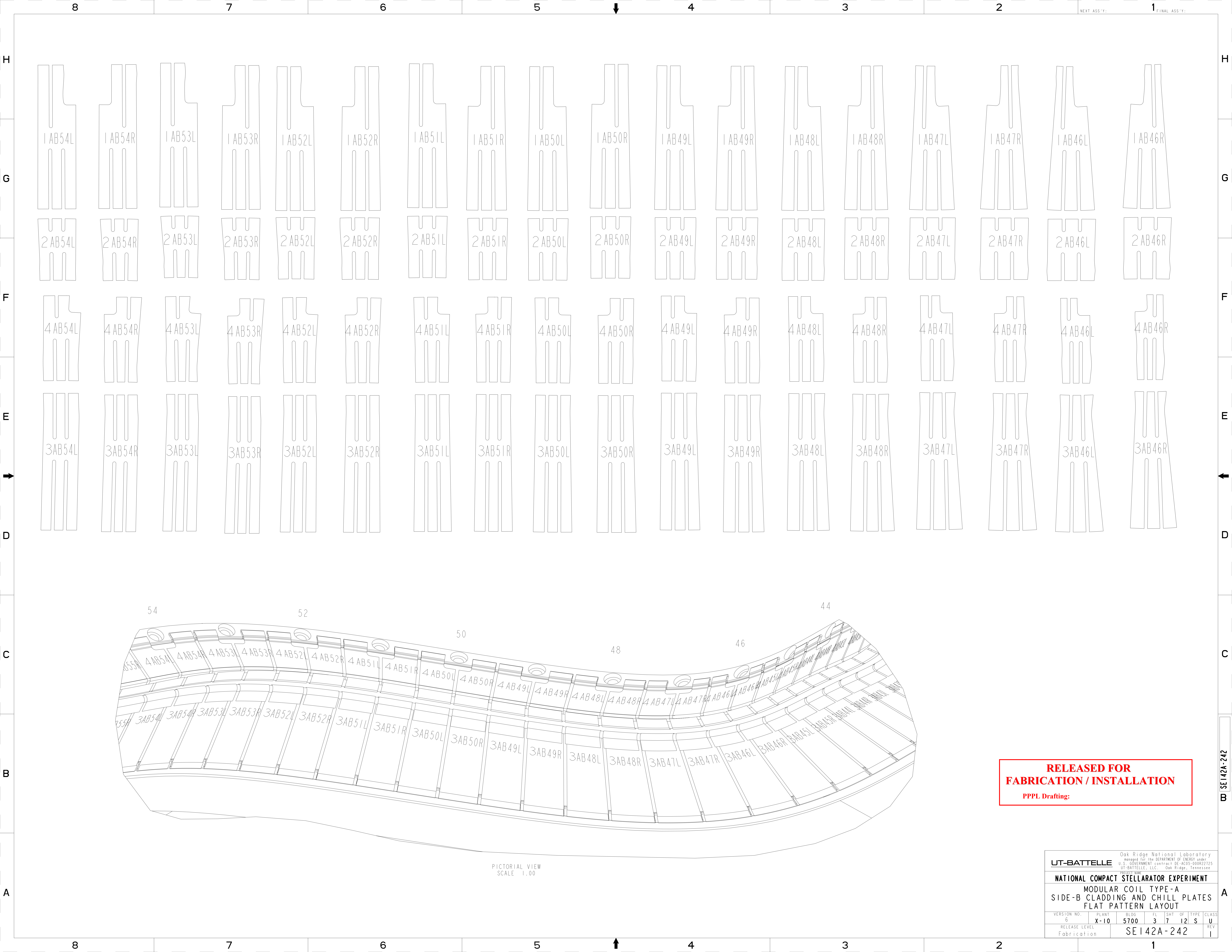
SE 142A-242



**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

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					
NATIONAL COMPACT STELLARATOR EXPERIMENT							
MODULAR COIL TYPE-A SIDE-B CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT							
VERSION NO. 6	PLANT X-10	BLDG 5700	FL 3	SHT OF 6	TYPE 12	CLASS S	
RELEASE LEVEL Fabrication		SE 142A-242			REV 1	U	

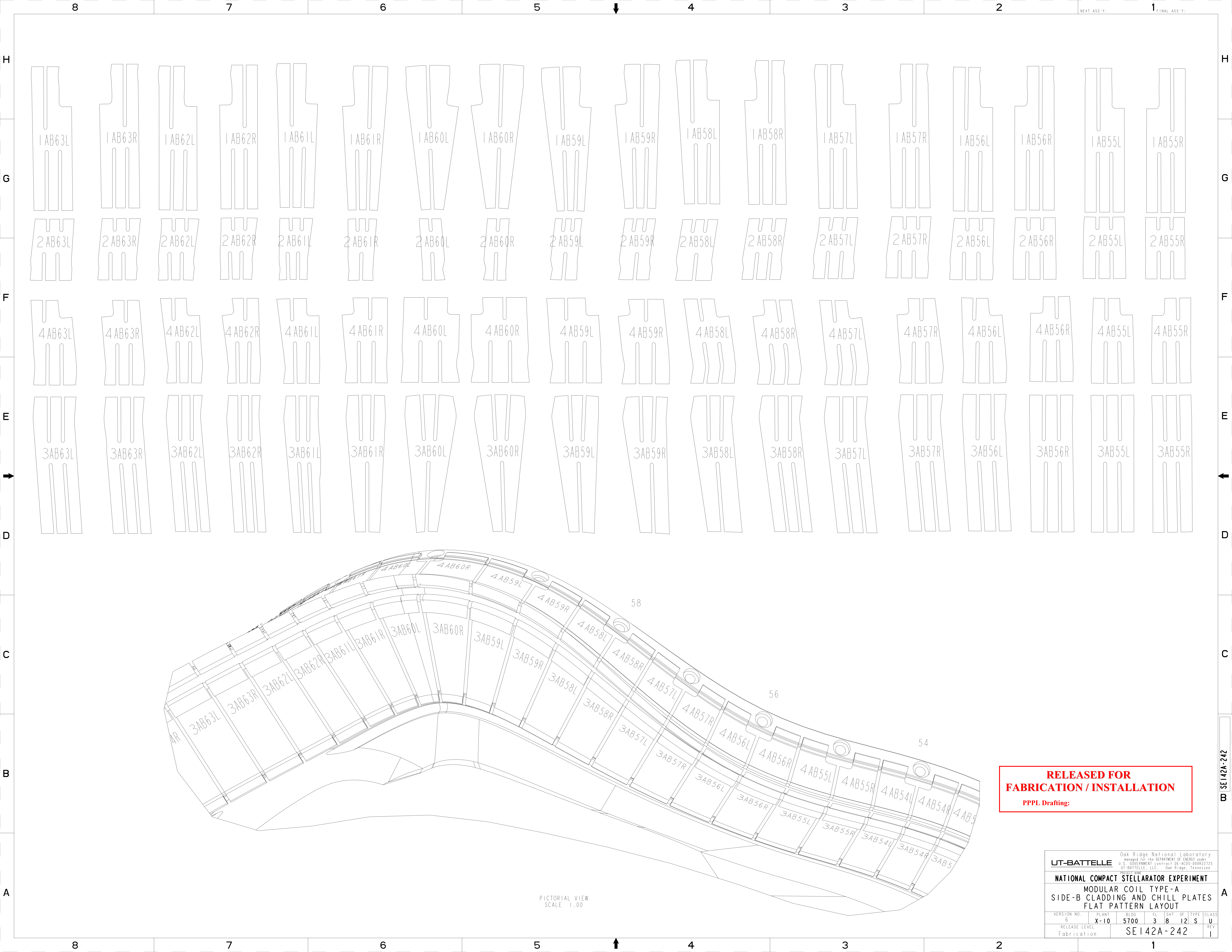
PICTORIAL VIEW
SCALE 1.00



**RELEASED FOR
FABRICATION / INSTALLATION**
 PPPL Drafting:

PICTORIAL VIEW
SCALE 1.00

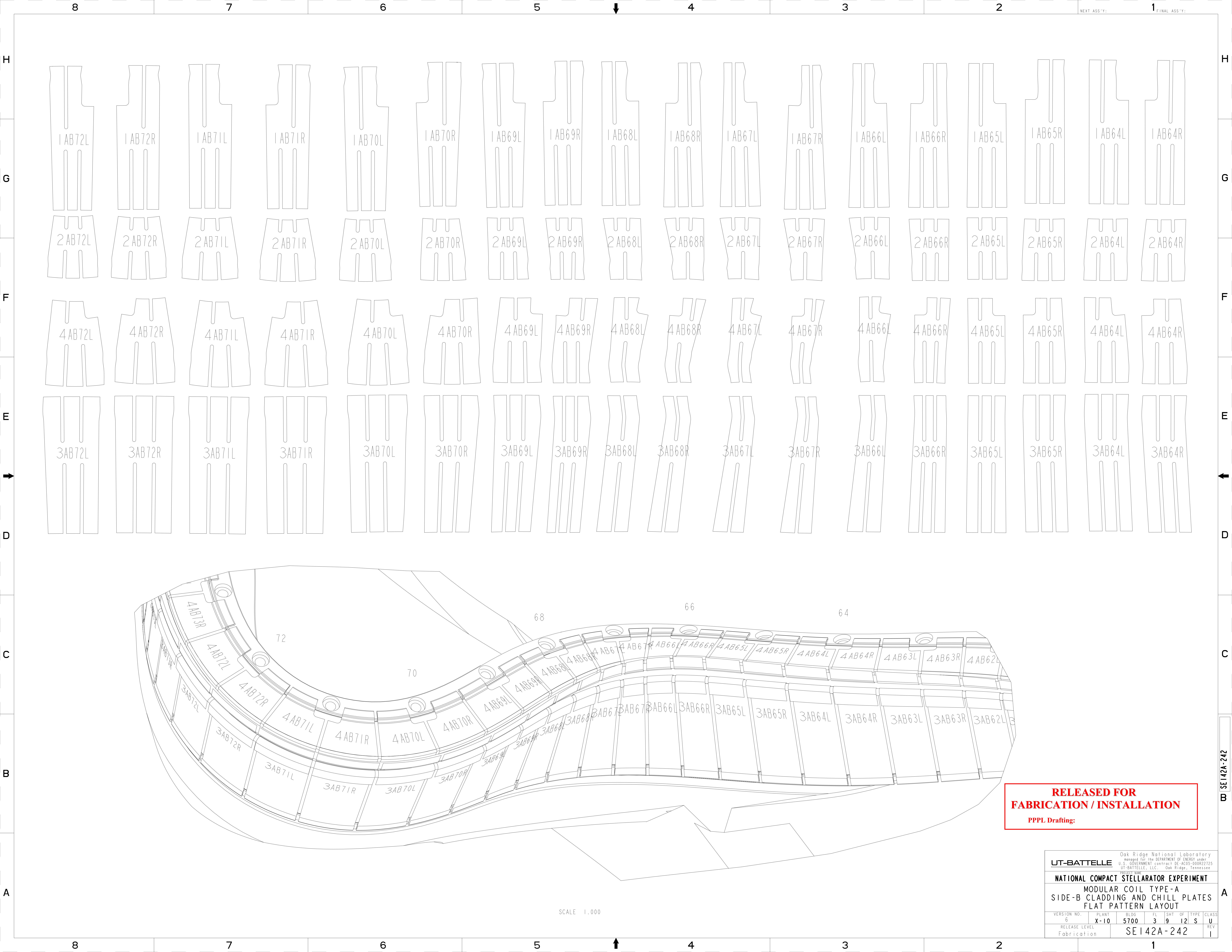
UT-BATTELLE		Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee					
NATIONAL COMPACT STELLARATOR EXPERIMENT		PROJECT NAME					
MODULAR COIL TYPE-A		PROJECT NAME					
SIDE-B CLADDING AND CHILL PLATES		PROJECT NAME					
FLAT PATTERN LAYOUT		PROJECT NAME					
VERSION NO. 6	PLANT X-10	BLDG 5700	FL 3	SHT 7	OF 12	TYPE S	CLASS U
RELEASE LEVEL Fabrication		SE 142A-242				REV 1	



**RELEASED FOR
FABRICATION / INSTALLATION**
 PPPL Drafting:

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					
NATIONAL COMPACT STELLARATOR EXPERIMENT		PROJECT NAME					
MODULAR COIL TYPE-A		SIDE-B CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT					
VERSION NO. 6	PLANT X-10	BLDG 5700	FL 3	SHT OF 8 12	TYPE S	CLASS U	
RELEASE LEVEL Fabrication		SE 142A-242				A	

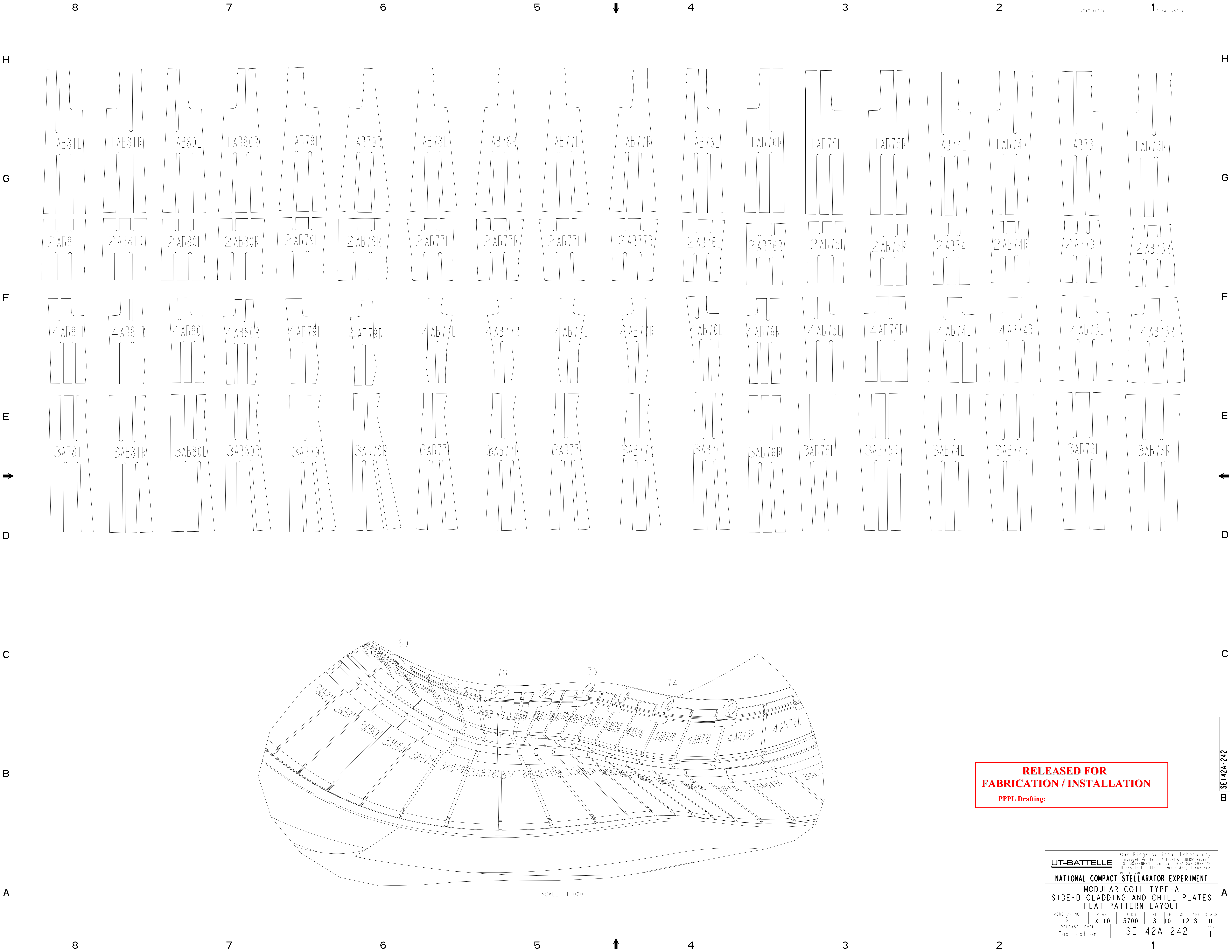
PICTORIAL VIEW
SCALE 1.00



**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

SCALE 1:1000

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 NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-A			
SIDE-B CLADDING AND CHILL PLATES			
FLAT PATTERN LAYOUT			
VERSION NO.	PLANT	BLDG	FL
6	X-10	5700	3
SHT	OF	TYPE	CLASS
9	12	S	U
RELEASE LEVEL		Fabrication	
SE 142A-242			

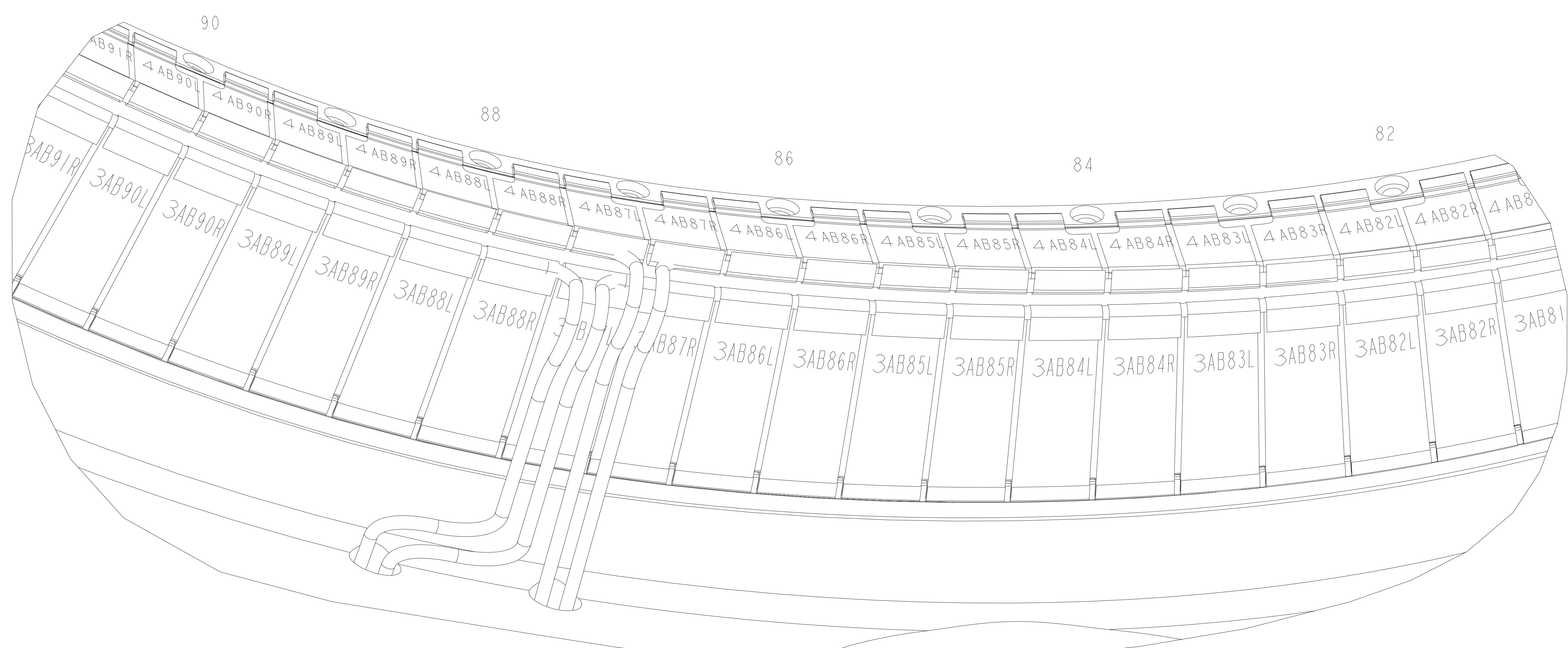
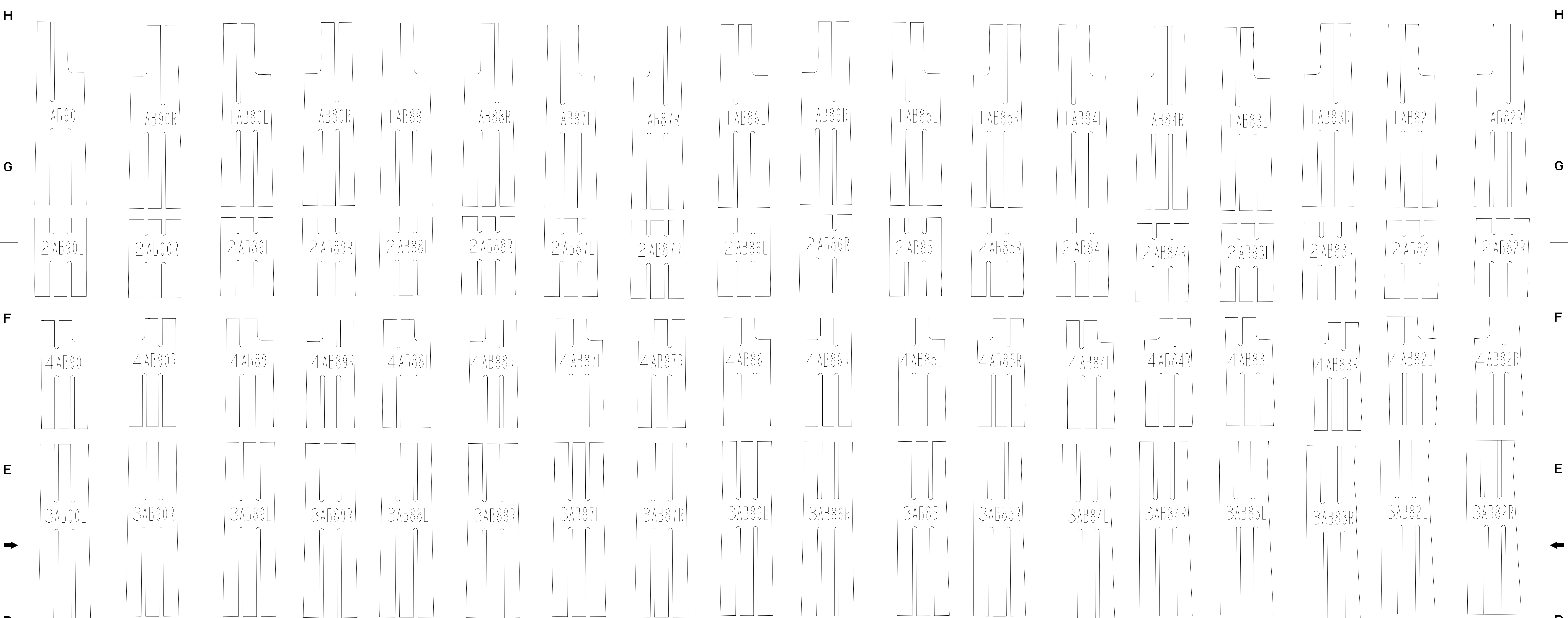


**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

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					
NATIONAL COMPACT STELLARATOR EXPERIMENT		PROJECT NAME					
MODULAR COIL TYPE-A		TYPE CLASS					
SIDE-B CLADDING AND CHILL PLATES		REV I					
FLAT PATTERN LAYOUT		U					
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS
6	X-10	5700	3	10	12	S	U
RELEASE LEVEL		SE142A-242					
Fabrication		I					

SCALE 1:1000

SE142A-242



PICTORIAL VIEW
SCALE 1.00

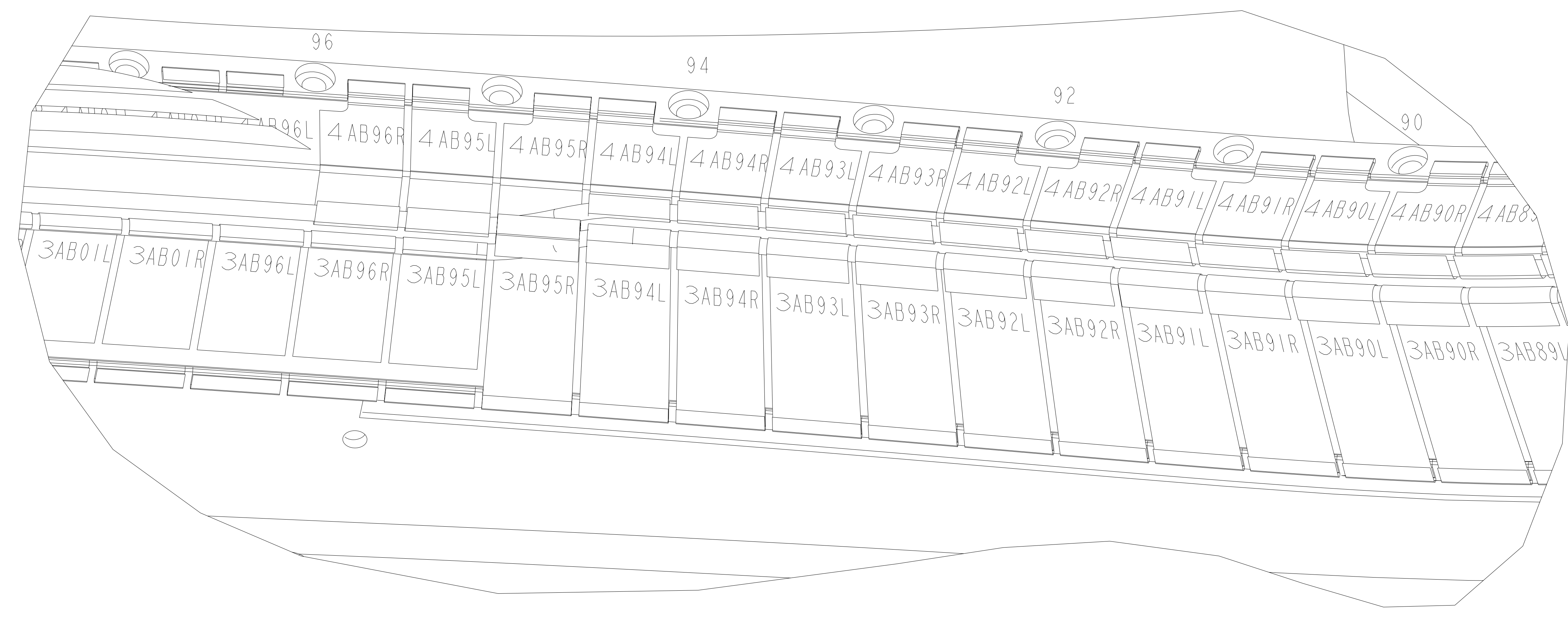
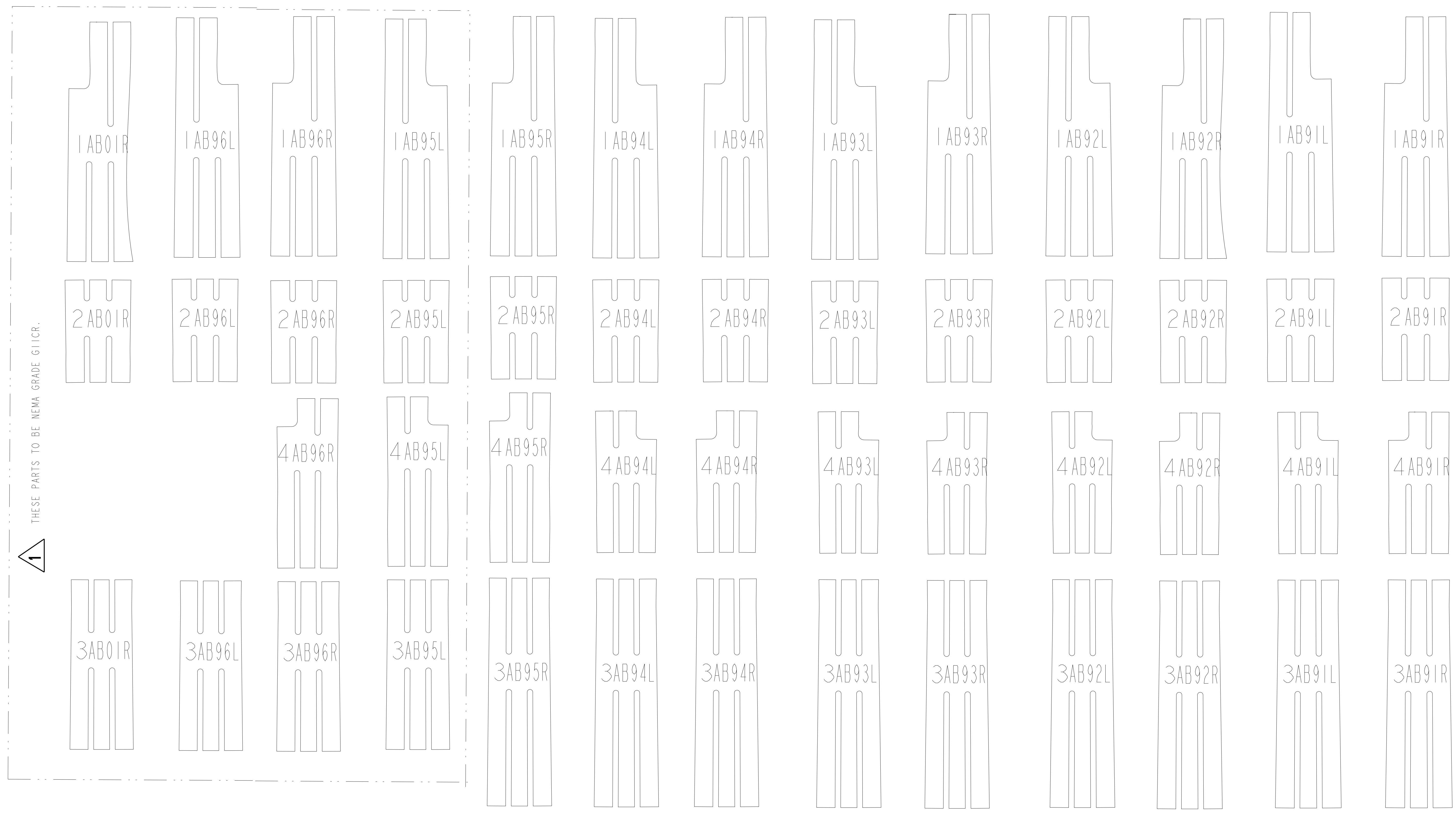
**RELEASED FOR
FABRICATION / INSTALLATION**

PPPL Drafting:

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 NAME			
NATIONAL COMPACT STELLARATOR EXPERIMENT			
MODULAR COIL TYPE-A SIDE-B CLADDING AND CHILL PLATES FLAT PATTERN LAYOUT			
VERSION NO. 6	PLANT X-10	BLDG 5700	FL SHT OF TYPE CLASS 3 11 12 S U
RELEASE LEVEL Fabrication		SE 142A-242	

SE 142A-242

A



PICTORIAL VIEW SCALE 1.00

RELEASED FOR FABRICATION / INSTALLATION
PPPL Drafting:

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 NAME																			
NATIONAL COMPACT STELLARATOR EXPERIMENT																			
MODULAR COIL TYPE-A																			
SIDE-B CLADDING AND CHILL PLATES																			
FLAT PATTERN LAYOUT																			
VERSION NO.	PLANT	BLDG	FL	SHT	OF	TYPE	CLASS												
6	X-10	5700	3	12	12	S	U												
RELEASE LEVEL																			
Fabrication		SE 142A-242																	
REV		1																	