

NO.	REVISION	BY	CH	SUP	APPROVED	DATE
1	REVISED PER ECN # 5103	JDR	MK	JS	M. KALISH	04/07/06

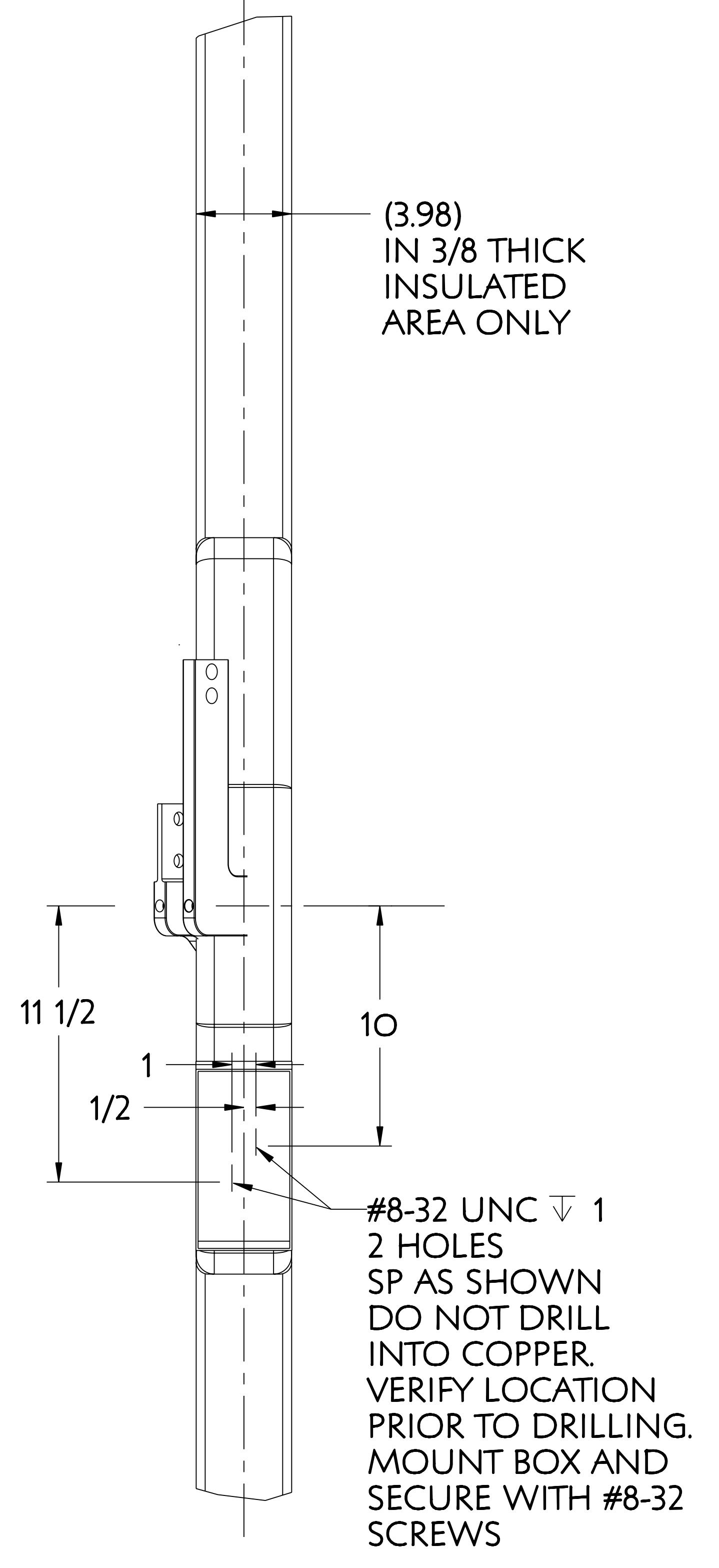
- NOTE**
1. DRAWING PREPARED IN ACCORDANCE WITH ASME Y14.100-2000
  2. INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5-1994
  3. ALL DIMENSIONS ARE IN INCHES.
  4. DIMENSIONS SHOWN (XXX) ARE REFERENCE DIMENSIONS. FOR FINAL CONTROLLING DIMENSIONS SEE THIS DRAWING SHEET #2 DETAIL "A" AND SECTION "A-A" AND DRAWING SE131-003

5 1/2  
TAPER GROUNDWRAP FROM 1/8" TO 3/8" THICK OVER THIS LENGTH AT THIS LOCATION TYP TOP & BOTTOM

(3.47)  
1/8" THICK INSULATED AREA

**NOTE**  
LOCATION OF CENTROID OF COIL MUST BE POSITIONED WITH THE ACCURACY REQUIRED TO MEET THE TOLERANCES DEFINED IN THE FINAL ASSEMBLY DRAWING SE131-003.

TWIST PART #1 (WIRE) STARTING AT THIS LOCATION AND FEED INTO MOUNTED BOX. (WIRES SHOWN FOR CLARITY.) WIRES ARE INSTALLED PRIOR TO INSTALLING THE LAST LAYER OF GROUNDWRAPPING.



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

PART NO.	DRAWING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	QTY	RECD
5	THIS DWG	EPOXY			A/R
4	SE131-069	TF COIL GROUNDWRAP - S2 GLASS .015" THK x 2" WIDE	GLASS TAPE		I
3	SE131-035	TF COIL ASSEMBLY	COPPER/INSULATION		I
2	DIAGNOSTIC_LOOP_BOX	4 X 8 X 2 BOX	CARBON STEEL		I
1	DIAGNOSTIC_LOOP_WIRE	ARI INDUSTRIES #032-IN-C	316 SS SHEATH/COND		I

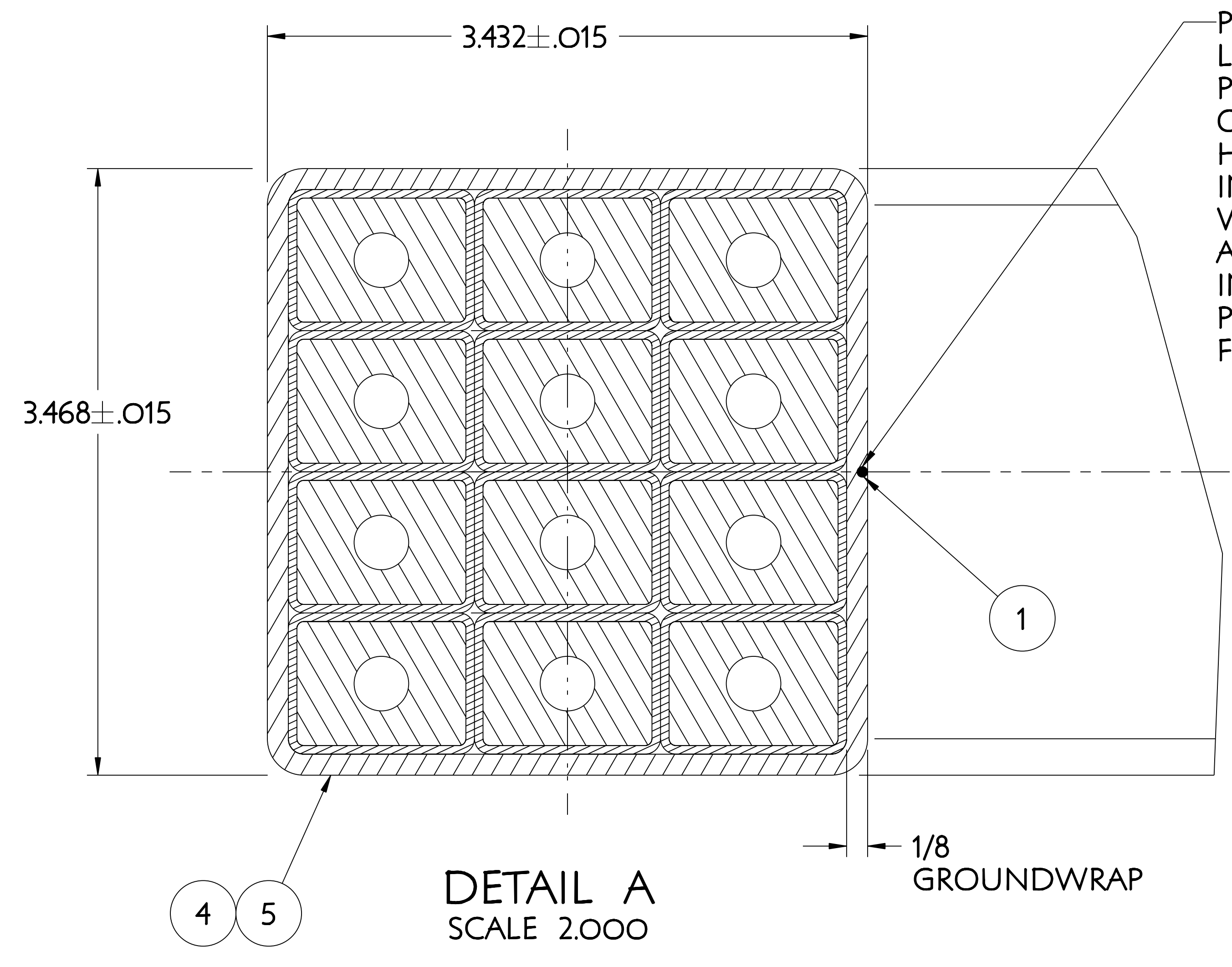
  

PARTS LIST					
COMPUTER GENERATED DRAWING	CENTRAL FILES:	PRINCETON PLASMA PHYSICS LABORATORY			
MANUAL CHANGES NOT PERMITTED	UNLESS OTHERWISE SPECIFIED	NATIONAL COMPACT STELLARATOR EXPERIMENT			
Pro E	DIMENSIONS ARE IN INCHES	STELLARATOR CORE			
DO NOT VERIFY INFORMATION BY SCALING DRAWING	BREAK SHARP EDGES .005/ .020	CONVENTIONAL COILS			
SCALE 0.250	TOLERANCES NON-CUMULATIVE	DSN: J. RUSHINSKI	2/01/06	DRAWING NO:	
NEXT ASSEMBLY	DECIMAL-INCH FRACTIONS	CHK: M. KALISH/B. PAUL	2/01/06	SE131-005	
WEIGHT	.XX +/- .000	ENGR: M. KALISH	2/01/06	SHEET 1 OF 2	
1025.7 lbs	.XXX +/- .005	SUPV: J. SIEGEL	2/01/06	REV 1	
MODEL NAME	ANGULAR +/- 0°-15'			NCSX-ASSY-FORMAT.E	
SE131-005					

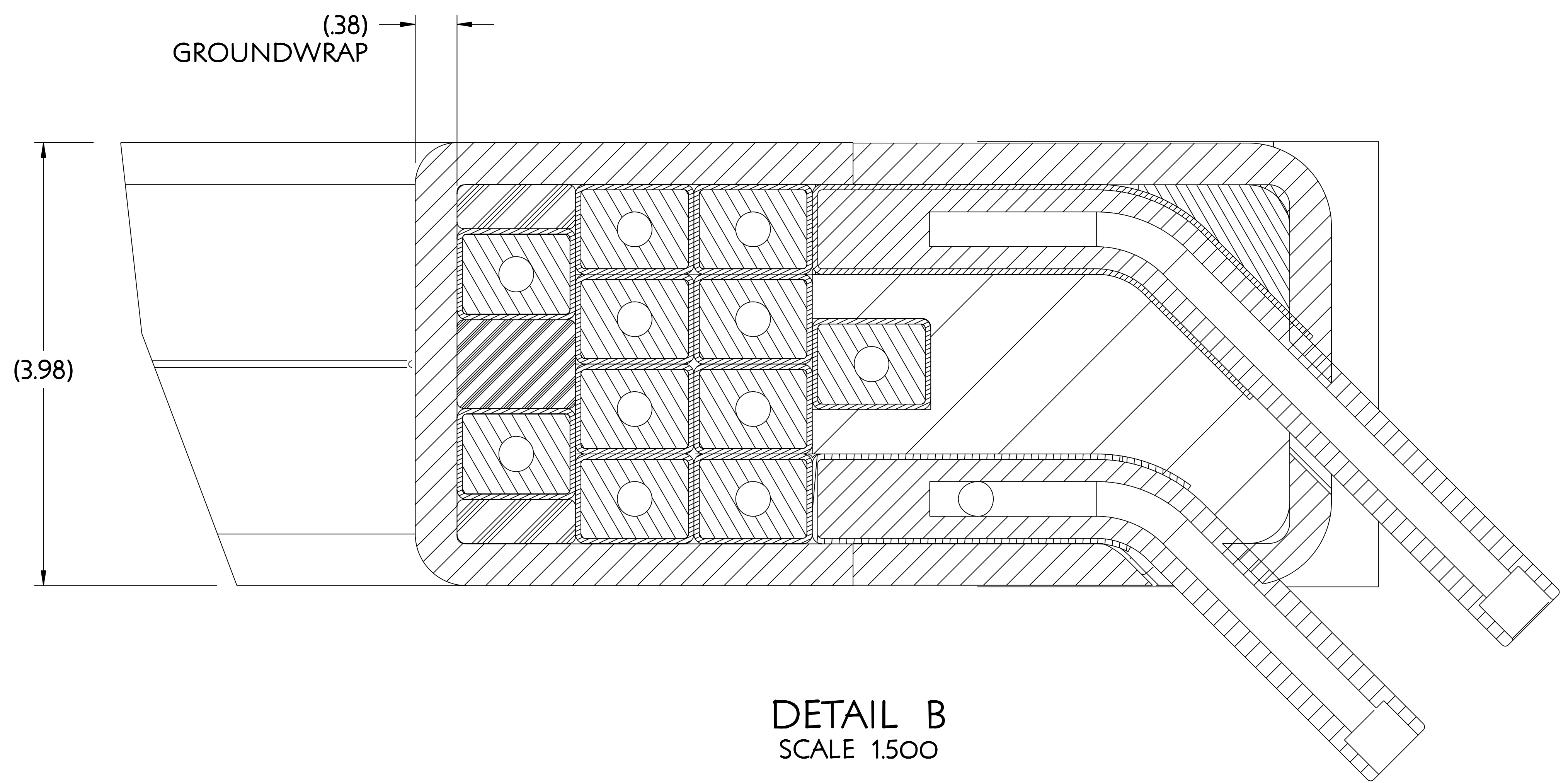
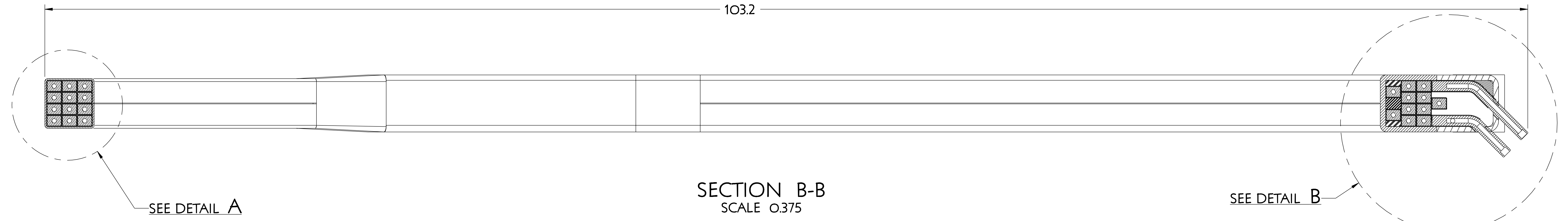
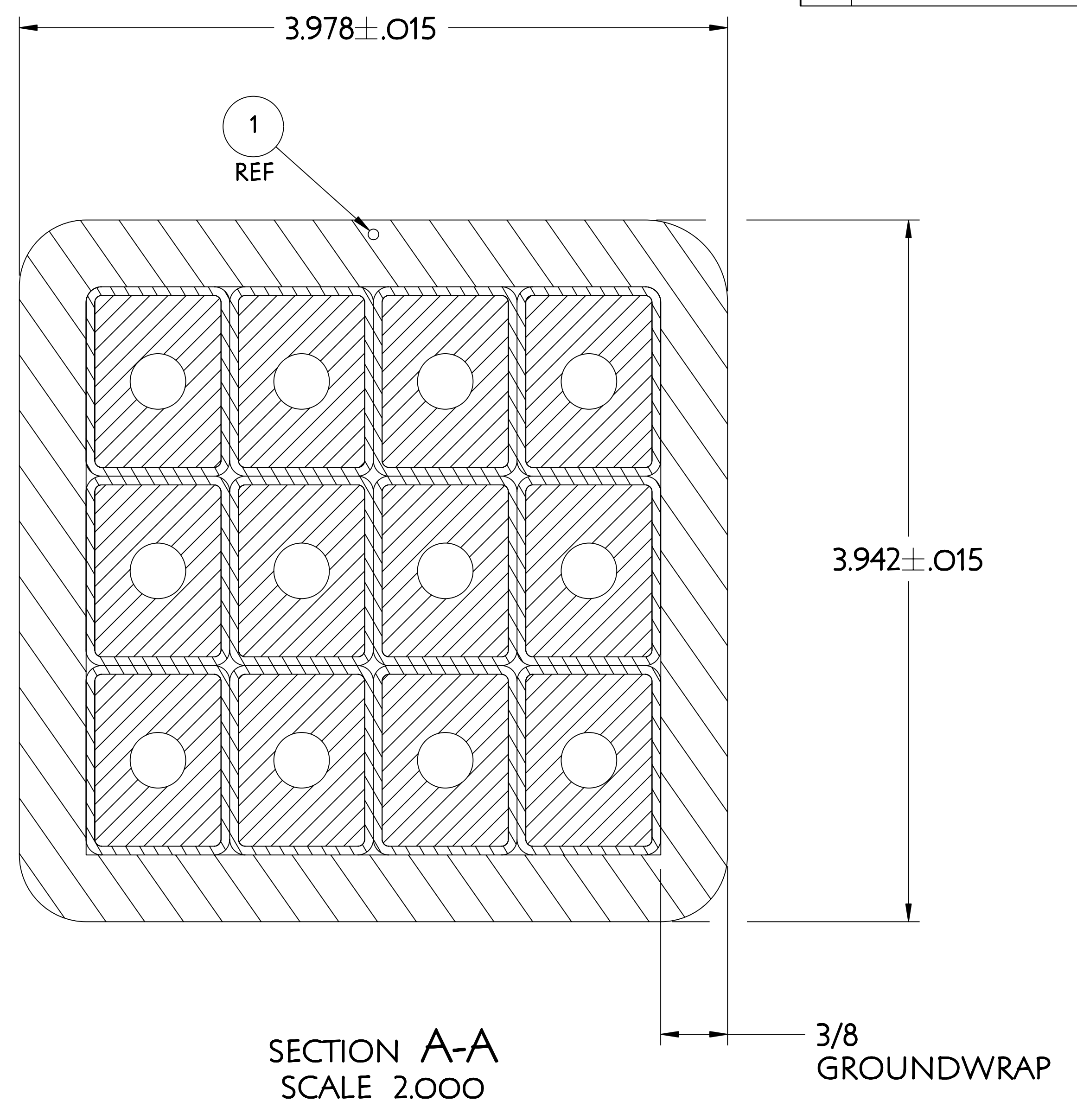
RELEASE LEVEL: Fabrication  
DWG VERSION NO:

NCSX-SE131-005

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PRIOR TO INSTALLING THE LAST LAYER OF GROUNDWRAP ROUTE PART #1 ABOUT THE PERIPHERY OF COIL ON THE CENTERLINE AND HOLD IN PLACE WITH KAPTON TAPE. INSTALL 1 TURN AND EXIT WHILE TWISTING THE WIRES AT THE COIL LEAD AREA AND INTO THE MOUNTED BOX. PROVIDE 24' (FT) OF EXCESS WIRE FOR FUTURE TERMINATIONS.



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

**NOTE**  
FOR FINAL VACUUM IMPREGNATION OF COIL SEE SPECIFICATION NCSX-CSPEC-131-01-00 FOR GROUNDWRAP INSULATION AND VPI DETAILS.

**RELEASE LEVEL: Fabrication**  
**DWG VERSION NO: 1**

WEIGHT	1025.7 lbs
MODEL NAME	SE131-005
WELDING ENGINEER	

PART NO.	DRAWING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL	QTY	RECD
PARTS LIST					
COMPUTER GENERATED DRAWING MANUAL CHANGES NOT PERMITTED Pro E		CENTRAL FILES: UNLESS OTHERWISE SPECIFIED	PRINCETON PLASMA PHYSICS LABORATORY PRINCETON UNIVERSITY <b>NATIONAL COMPACT STELLARATOR EXPERIMENT</b>		
DO NOT VERIFY INFORMATION BY SCALING DRAWING		DIMENSIONS ARE IN INCHES MACHINE SURFACES UNLESS OTHERWISE SPECIFIED BREAK SHARP EDGES .005/.020	STELLARATOR CORE CONVENTIONAL COILS TF COIL GROUNDWRAPPED ASSEMBLY		
NEXT ASSEMBLY		TOLERANCES NON-CUMULATIVE DECIMAL-INCH FRACTIONS .XX ±.005 .XXX ±.005 ANGULAR ±.0°-15'	DSN: J. RUSHINSKI CHK: M. KALISH/B. PAUL ENGR: M. KALISH SUPV: J. SIEGEL	2/01/06 2/01/06 2/01/06 2/01/06	DRAWING NO: <b>SE131-005</b> SHEET 2 OF 2 REV 1

NCSX-SE131-005