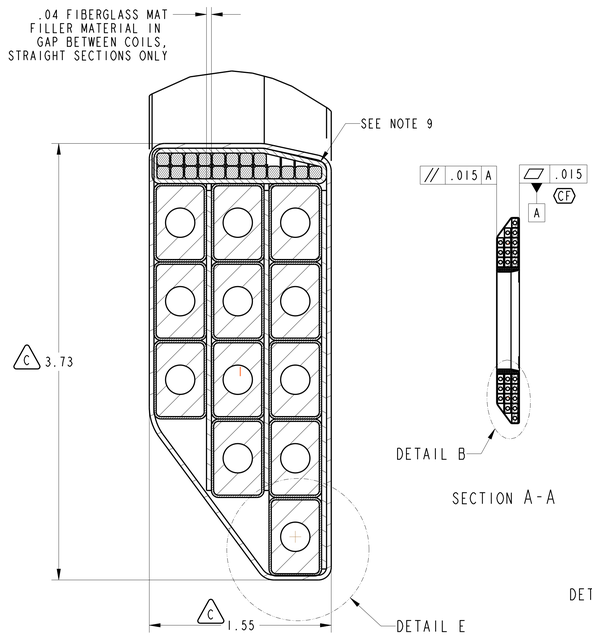
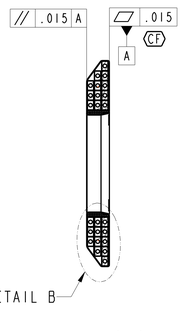
NOTES:

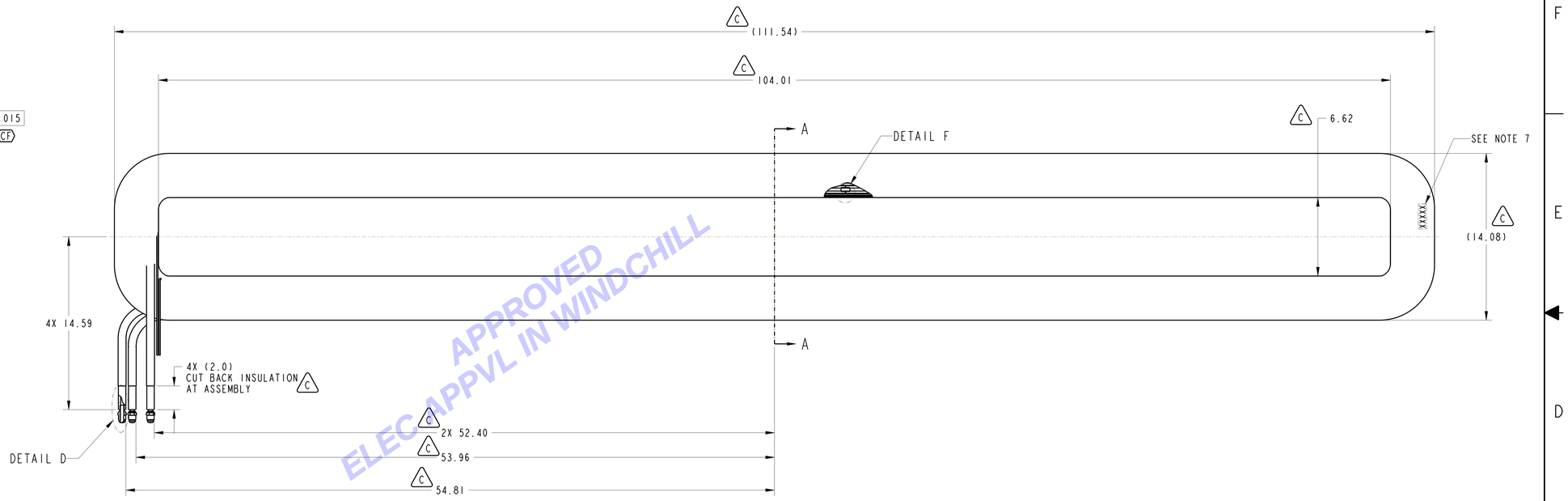
1. SPECIFICATION: REFER TO EIC-MSG-SOW-017 & EIC-MSG-SPC-008 DOCUMENTS FOR COIL SPECIFICATIONS, Q.A, AND MANUFACTURING METHODS.
2. MATERIAL:
   COPPER TUBING PER EIC-MSG-SPC-008.
   AMINO-SILANE TREATED PURE E-GLASS TAPE INSULATION PER SPECIFICATION EIC-MSG-SPC-008.
   ALL FITTINGS SHALL BE BRASS.
3. BRAZE JOINT(S) SHALL BE NO LESS THAN 3" FROM ANY CORNER BEND RADIUS, AND NOT MORE THAN TWO JOINTS PER PANCAKE.
4. BRAZE USING .032-SIL-FOS. SILVER PLATE BARE COPPER SURFACES.
5. FILLER BLOCKS SHALL BE CUT TO FIT LARGE GAPS, AND SHALL BE MADE OF RADIATION RESISTANT MATERIAL. REFER TO EIC-MSG-SPC-008.
6. ADJUST FOR KEYSTONING TO MEET FINAL DIMENSIONS.
7. MARKING: PAINT OR STENCIL PART WITH DRAWING NUMBER IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX. AS SHOWN.
8. COIL WINDING WITH OUTER INSULATION LAYER REMOVED FOR CLARITY, SHOWN ON SHEET 2 FOR REFERENCE ONLY.
9. SEE DRAWING 2104M0024 FOR TRIM COIL DETAIL.

REVISION APPROVALS								
REV	ECN NO.	DESCRIPTION	DATE	BY	CHK	DES	ENG	SUPV
A	-	INITIAL RELEASE	-	-	-	-	-	-
B	EIC-01001	REVISED AND REDRAWN	2/2025	RL	SN	VD	RL	GM
C	EIC-0761	OVERALL LENGTH REDUCED & UPDATED EXPORT CONTROL NOTE	05/10/26	VC	JK	VD	RL	GM



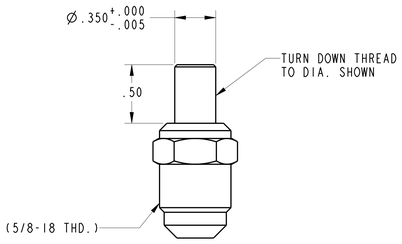


SECTION A-A

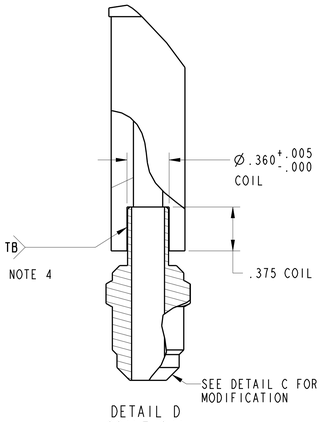


APPROVED ELECAPPVL IN WINDCHILL

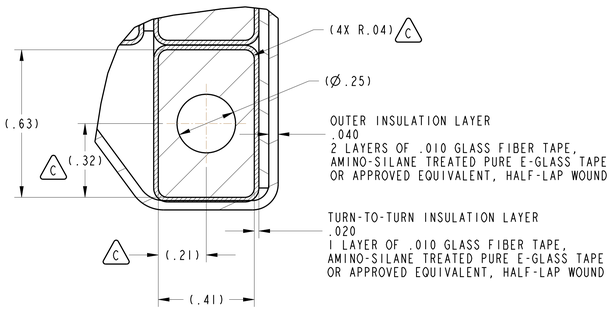
DETAIL B
SCALE 2/1



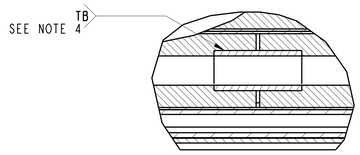
DETAIL C
MODIFIED FITTING
PARKER 42F-6
SCALE 2/1
4X
SEE NOTE 7



DETAIL D
SCALE 2/1
4X



DETAIL E
SCALE 4/1



DETAIL F
SCALE 2/1

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ENVELOPE DRAWING

C	C	REV
2	1	SHEET

REVISION STATUS OF SHEETS

2104M0000 | 1
USED ON DRAWING NO. | QTY. PER ASS'Y.
APPLICATION

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5 2009

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES
.X ± .01
.XX ± .005
.XXX ± .005
ANGULAR TOLERANCE ±1°

125 FINISH | BREAK SHARP EDGES MAX. .03 MIN. .015

EIC

DRAWN BY	R. LYNCH	1/2025
CHECKED BY DESIGN APPROVAL	S. NOTARO	1/2025
ENGINEERING APPROVAL	V. DE MONTE	1/2025
SUPERVISOR APPROVAL	R. LOVELACE	1/2025
	G. MAHLER	1/2025
CCE / CMC DIVISION HEAD		
Q.A.		
SAFETY / RSC DEPARTMENT CHAIR		

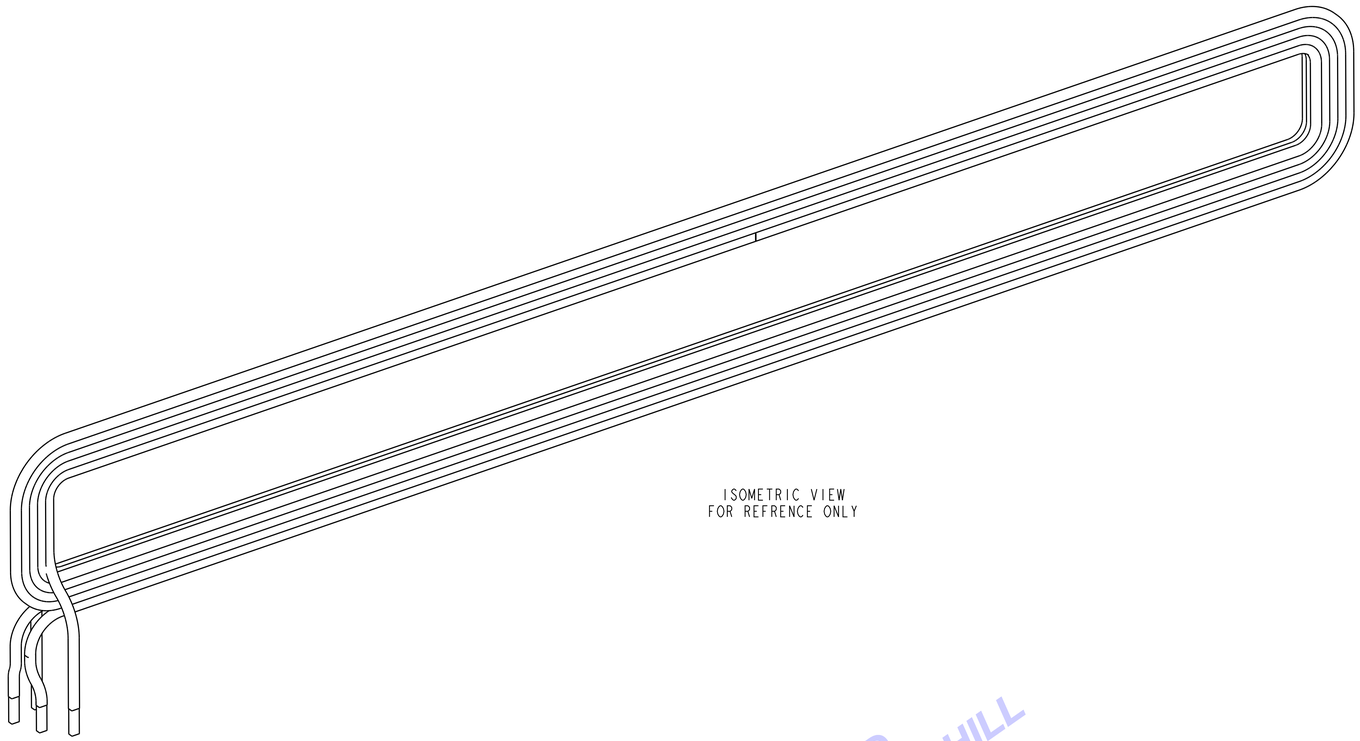
ELECTRON-ION COLLIDER
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

C ELECTRON STORAGE RING
ESR D1/D3 DIPOLE MAGNET
12 TO 5 MAGNET COIL, BOTTOM

SIZE	DRAWING NUMBER:	REV.
E	2104M0014	C
Q.A. CATEGORY	A3	SCALE: 1/4	WEIGHT: 254	SHEET 1 OF 2

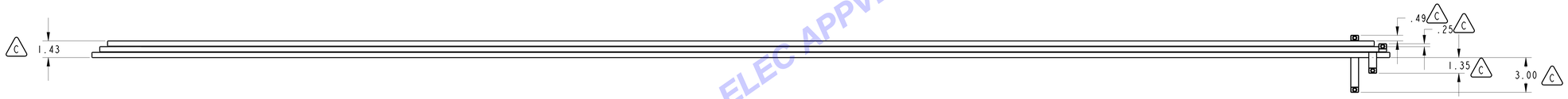
SHT 1 OF 2 REV C
DWG NO 2104M0014

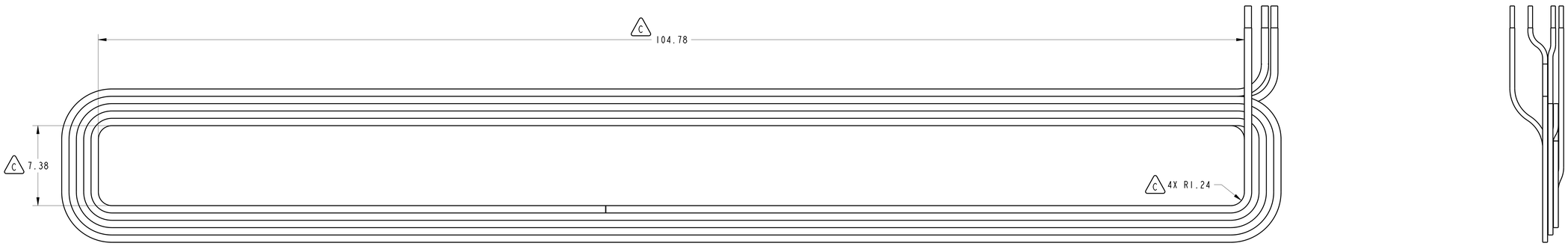
CREO



ISOMETRIC VIEW
FOR REFRENCE ONLY

APPROVED
ELEC APPVL IN WINDCHILL





C

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ELECTRON-ION COLLIDER
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

SIZE	DRAWING NUMBER	REV.
E	2104M0014	C

CAT.	SCALE	WEIGHT	SHEET
A3	1/4	254	2 OF 2

2104M0014 2 OF 2 C
DWG NO