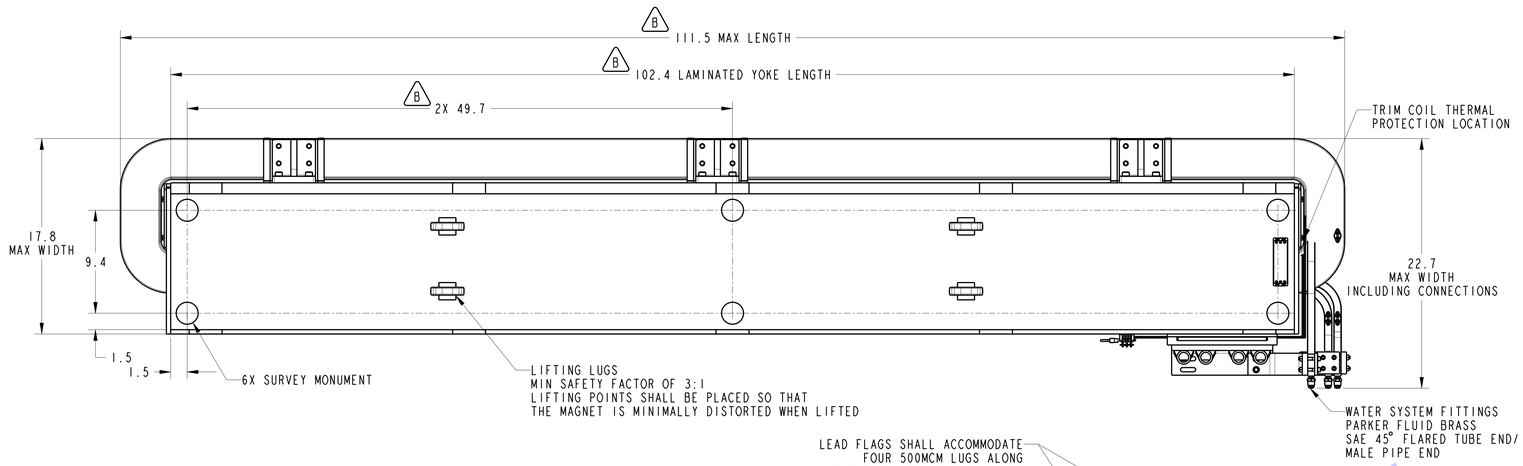
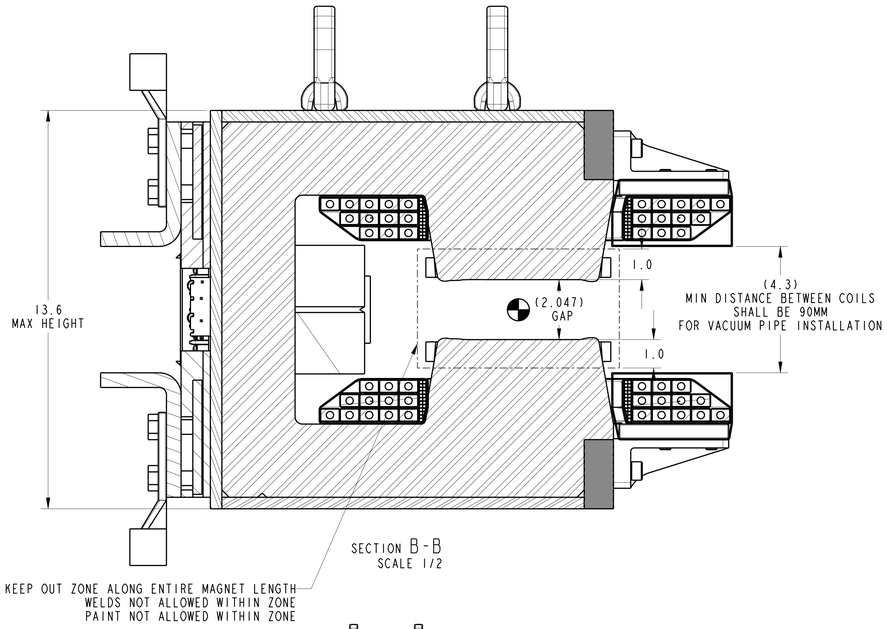
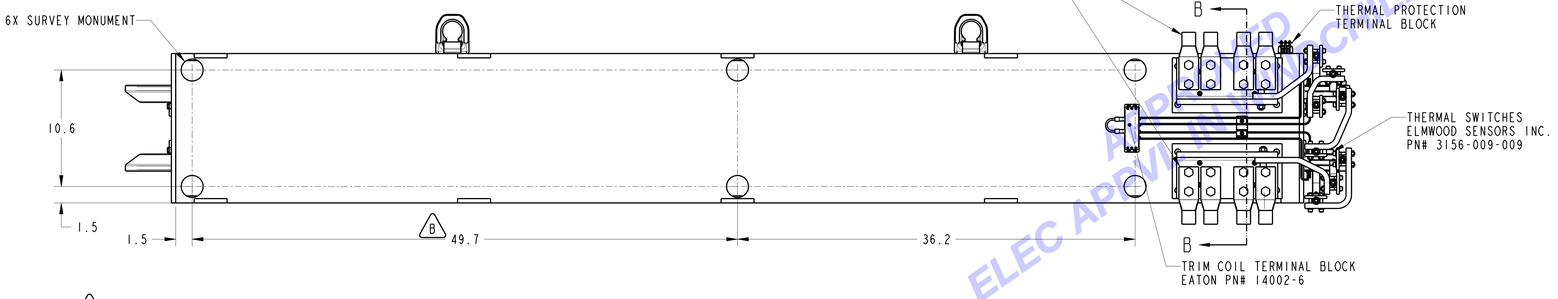
REVISION APPROVALS								
REV	ECN NO.	DESCRIPTION	DATE	BY	CHK	DES	ENG	SUPV
A	-	INITIAL RELEASE	-	-	-	-	-	-
B	EIC-0761	REDUCED OVERALL LENGTH & UPDATED EXPORT CONTROL NOTE	05/13/26	VC	JK	VD	RL	GM

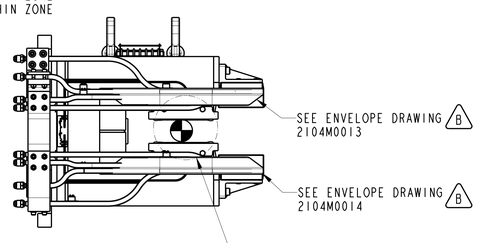
NOTES:

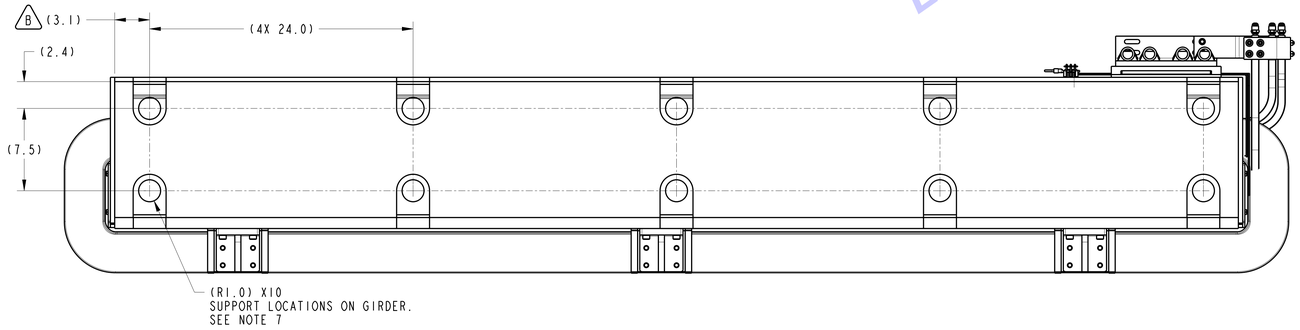
1. REFER TO BNL TECHNICAL SPECIFICATION EIC-MSG-SPC-008 AND BNL SOW EIC-MSG-SOW-017 FOR MORE DETAILS.
2. THESE DRAWINGS ARE PRESENTED AS A REFERENCE DESIGN WITH OVERALL DESIGN INTERFACE CONSIDERATIONS. VENDORS ARE ENCOURAGED TO OPTIMIZE AND ENHANCE THE MANUFACTURABILITY, LONG TERM RELIABILITY AND COST EFFECTIVENESS OF THE MAGNETS.
3. LAMINATIONS SHALL BE SHUFFLED FROM DIFFERENT LOTS/HEATS TO PROVIDE MINIMAL DIFFERENCES IN MAGNETIC FIELD STRENGTH FROM MAGNET TO MAGNET.
4. ALL LAMINATION STEEL SHALL BE NON-ORIENTED.
5. COMMERCIAL OFF THE SHELF PARTS AS DEFINED, OR EQUIVALENT, SHALL BE USED.
6. DATUM FEATURE A SHALL BE THE FLAT SURFACE OF THE POLE PROFILE ALONG THE LENGTH OF THE MAGNET.
7. SUPPORT LOCATIONS TO GIRDER SHALL BE ACCESSIBLE FROM THE SIDES. MAGNET LAMINATION SURFACE WILL BE WELDED TO GIRDER SUPPORTS AT BNL.
8. BUS CONNECTIONS SHALL ACCOMMODATE 12 OR 5 TURN COIL CONFIGURATIONS. BUS CONNECTIONS SHOWN FOR 12 TURN.

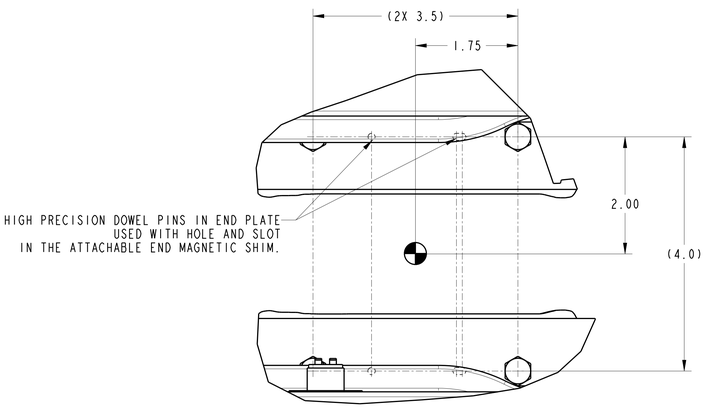


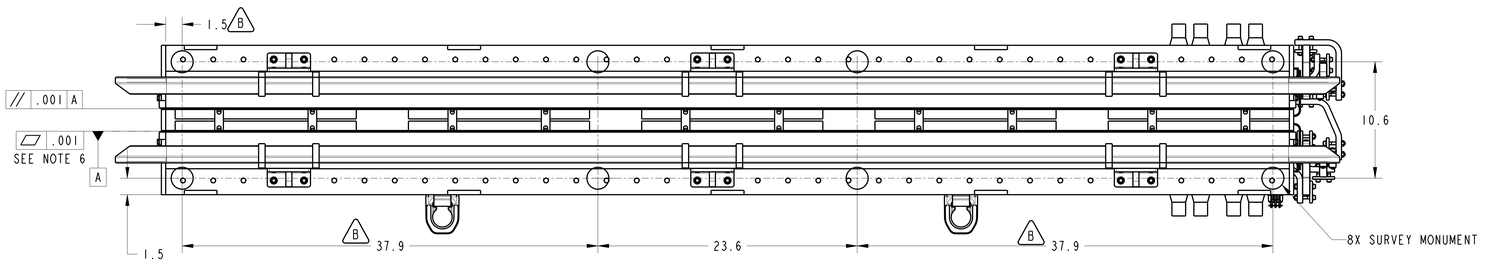












B

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APPROVED ELEC APPROVED

INTERFACE DRAWING

FINAL	1	125 FINISH	BREAK SHARP EDGES MAX. .03 MIN. .015	
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°

DRAWN BY	D.PULEO	2/10/25
CHECKED BY	S.NOTARO	2/12/25
DESIGN APPROVAL	R.LYNCH	2/12/25
ENG./PHYS. APPROVAL	R.LOVELACE	2/12/25
SUPERVISOR APPROVAL	G.MAHLER	2/12/25
CEE / CME DIVISION HEAD	J.TUZZOLO	2/12/25
Q.A.		
SAFETY / RSC		
DEPARTMENT CHAIR		

EIC

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

ELECTRON STORAGE RING
D1/3 DIPOLE MAGNET
INTERFACE, D1/D3 MAGNET ASSEMBLY 12 TO 5 TURN B

SIZE	DRAWING NUMBER:	REV.
E	2104M0000	B

Q.A. CATEGORY	SCALE:	WEIGHT:	SHEET
A3	3/16	5894.3	1 OF 1

SHT 1 OF 1 REV B
2104M0000
DWG NO

CREO