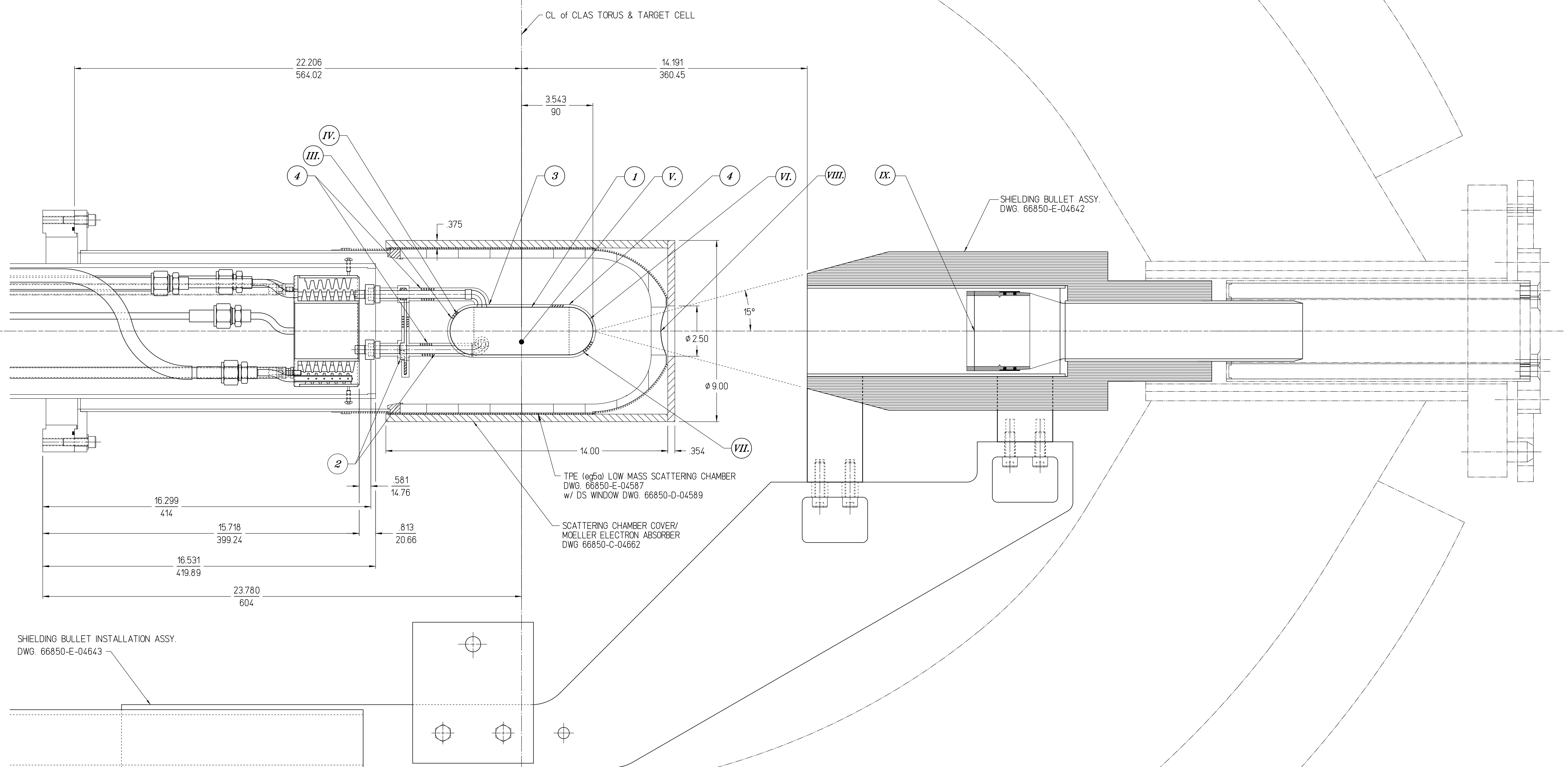


FOR CONTINUATION SEE
66840-E-04430 SHT. 1

FOR CONTINUATION SEE
66840-E-04430 SHT. 1



CRYOTARGET CELL & SCATTERING CHAMBER

SCALE: 1/2

TABLE -A-
MATERIALS IN THE BEAM LINE

ITEM	DESCRIPTION	Z* LOCATION (cm)	MATERIAL	THICKNESS (cm)	INSIDE DIA (cm)
0.	WINDOW AT END OF ACCELERATOR VAC. (SEE SHEET 1)	-1561	ALUMINUM	75 microns	6.0
I.	HELIUM BAG EXIT WINDOW (SEE SHEET 1)	-337.5	ALUMINUM	25 microns	8.93
II.	UPSTREAM CRYOTARGET INLET WINDOW (SEE SHEET 1)	-329.5	ALUMINUM	75 microns	6.35
III.	TARGET CELL SUPER-INSULATION	-9.50	5 LAYERS 3 PLY CEREX	2.50 mm	6.00 HEMISPHERICAL
IV.	TARGET CELL INLET WINDOW	-9.25	MYLAR	178 microns	6.00 HEMISPHERICAL
V.	TARGET LIQUID (SEE NOTE 2)	0.00	LH ₂	18.00	6.00
VI.	TARGET CELL EXIT WINDOW	9.25	MYLAR	178 microns	6.00 HEMISPHERICAL
VII.	TARGET CELL SUPER-INSULATION	9.50	5 LAYERS 3 PLY CEREX	2.50 mm	6.00 HEMISPHERICAL
VIII.	SCATTERING CHAMBER EXIT WINDOW	17.6	ALUMINUM	75 microns	N/A
IX.	HELIUM BAG ENTRANCE WINDOW	57.13	KAPTON	25 microns	8.93

TABLE -B-
CELL MATERIALS & THERMAL INSULATION

ITEM	MATERIAL
1	CELL WALLS 178 microns (.007") MYLAR
2	CELL BASE & TUBES STAINLESS STEEL
3	CELL NOZZLES COPPER
4	5 LAYERS OF SUPER-INSULATION EACH w/ 3 PLY CEREX

TABLE -C-

MATERIAL	DENSITY (ρ)
SUPER-INSULATION (ALUMINIZED MYLAR)	$\rho = .88 \text{ mg/cm}^2/\text{Layer}$
SUPER-INSULATION (CEREX)	$\rho = 1.0 \text{ mg/cm}^2/\text{Layer/Ply}$
RHOACELL FOAM	$\rho = 110 \text{ mg/cm}^2$

NOTES:
1) CELL LENGTH WAS SURVEYED BY THE JLAB SURVEY GROUP. FOR ADDITIONAL INFORMATION SEE THE SURVEY REPORT AT THIS WEB SITE.
<http://claspc10.cebafe.gov/SURVEY/mages/1999-06-17.gif>

FALL 2006 CONFIGURATION - PRELIMINARY

DOCUMENT CONTROL STAMP	DM & TOL PER ASME Y14.5 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE DECIMAL ANGLES ARE DEGREES	TRACKING NO. /wbs/6/zorecky/66000 /4500/66840e04530_02	APPROVALS	DATE
	FINISH MACHINED SURFACES UNLESS OTHERWISE NOTED DESIG & BREAK ALL SHARP EDGES	THIRD ANGLE PROJECTION	DRAWN M ZARECKY	1/9/06
DO NOT SCALE DRAWING				Thomas Jefferson National Accelerator Facility UNITED STATES DEPARTMENT OF ENERGY HALL B CLAS BEAM LINE ASSEMBLY FROM TAGGER MAGNET THRU FWD CARRIAGE FOR TPE TEST (eg5a)
		APPROVED	APPROVED	SIZE DWG. NO. 66840-E-04530 SCALE 1/2 SHEET 2 OF 2

UPDATED 9/6/06