REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED

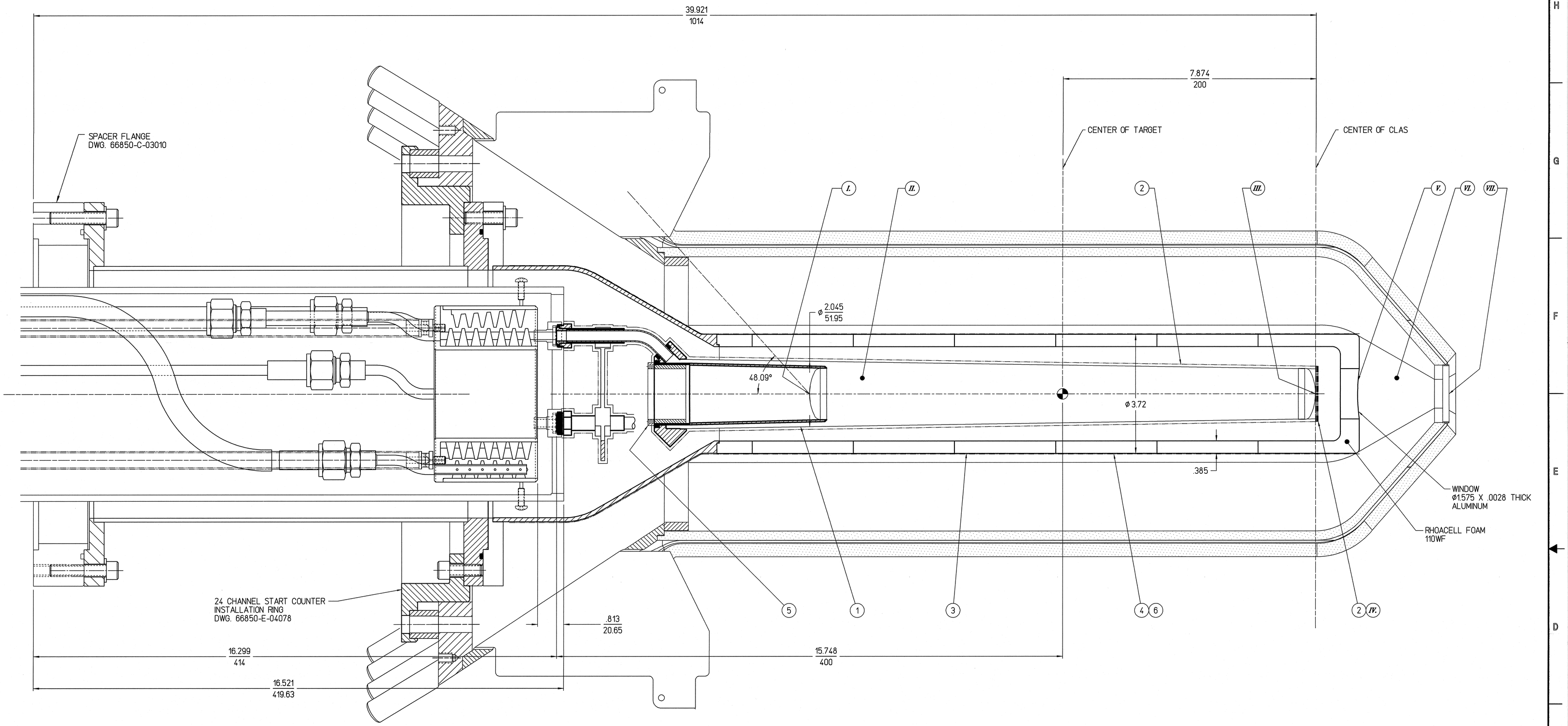

TABLE –A–
MISCELLANEOUS CELL MATERIALS & THERMAL INSULATION

ITEM	MATERIAL
1	CELL DWG 66850-C-04070
2	5 LAYERS OF SUPERINSULATION EACH w/ 1 PLY CEREX
3	SCATTERING CHAMBER - JLAB DWG 66850-E-04074
4	SAFETY SOCK (LEGGS J504X ~ SIZE 1X)
5	BEAM OFFSET MONITOR (IOH2H01) ID = 40.9 mm DWG 66850-C-03988 Z = -42.8 cm TO -39.8 cm
6	TEDLAR .001" THICK

TABLE –B–
MATERIALS IN THE BEAM LINE

ITEM	DESCRIPTION	"Z" LOCATION (cm)	MATERIAL	THICKNESS (cm)	INSIDE DIA (cm)
I.	TARGET CELL INLET WINDOW	-40.00	KAPTON ALUM.	127 microns 15 microns	4.0 IR HEMI. 5mm ø
II.	TARGET LIQUID	N/A	D_2	40.00	4.00 CONICAL
III.	TARGET CELL EXIT WINDOW	0.0	KAPTON ALUM.	127 microns 15 microns	4.0 IR HEMI. 5mm ø
IV.	TARGET CELL SUPER-INSULATION	0.2	5 LAYERS SI 1 PLY CEREX	2.5 mm	4.00 IR HEMISPHERICAL
V.	SCATTERING CHAMBER EXIT WINDOW	3.3	ALUM.	71 microns	4.00
VI.	AIR GAP	N/A	AIR	68.2	VARIOUS
VII.	START COUNTER DS OPENING	10.6	N/A	N/A	4.00
VIII.	HELIUM BAG ENTRANCE WINDOW SEE SHEET 1	80.8	KAPTON	51 microns	8.93
IX.	HELIUM BAG EXIT WINDOW	N/A	KAPTON	51 microns	8.93

TABLE –C–

MATERIAL	DENSITY
SUPER-INSULATION (ALUMINIZED MYLAR)	0.88 mg/cm^2 /Layer
SUPER-INSULATION (CEREX)	1.0 mg/cm^2 /Layer/Ply
SCATTERING CHAMBER FOAM WALLS	107 mg/cm^2
SCATTERING CHAMBER SAFETY SOCK	NYLON 4.0 mg/cm^2
CELL WALL	KAPTON 18 mg/cm^2
TEDLAR FILM	1.4 - 1.7 g/cc

EACH SHEET OF A MULTI-SHEET DRAWING SHALL ALWAYS CARRY THE SAME REVISION LEVEL

DOCUMENT CONTROL STAMP

MATERIAL: N/A

FINISH MACHINED SURFACES N/A UNLESS OTHERWISE NOTED
DEBURR & BREAK ALL SHARP EDGES

DO NOT SCALE DRAWING

DIM & TOL PER ASME Y14.5
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± N/A DECIMAL X ± N/A XX ± N/A XXX ± N/A ANGLES ± N/A

THIRD ANGLE PROJECTION

TRACKING NO. /wbs/6/zarecky/66000/4700/66840e04707_02

Thomas Jefferson National Accelerator Facility
Operated by JSA for the UNITED STATES DEPARTMENT OF ENERGY

APPROVALS	DATE
DRAWN M. ZARECKY	2/20/07
CHECKED	3/6/07
APPROVED	3/6/07
APPROVED	3/6/07

HALL B
CLAS BEAM LINE ASSEMBLY
FROM TAGGER MAGNET THRU FWD CARRIAGE
FOR g13b RUN (SPRING 2007)

SIZE E | DWG. NO. 66840-E-04707 | REV. –
SCALE 7/8 | USED ON ASSY NO. – | SHEET 2 OF 3

Me10