

NOTES

1 ELEMENTS CROSS THE ELECTRON BEAM AS READ (FROM LEFT-TO-RIGHT)

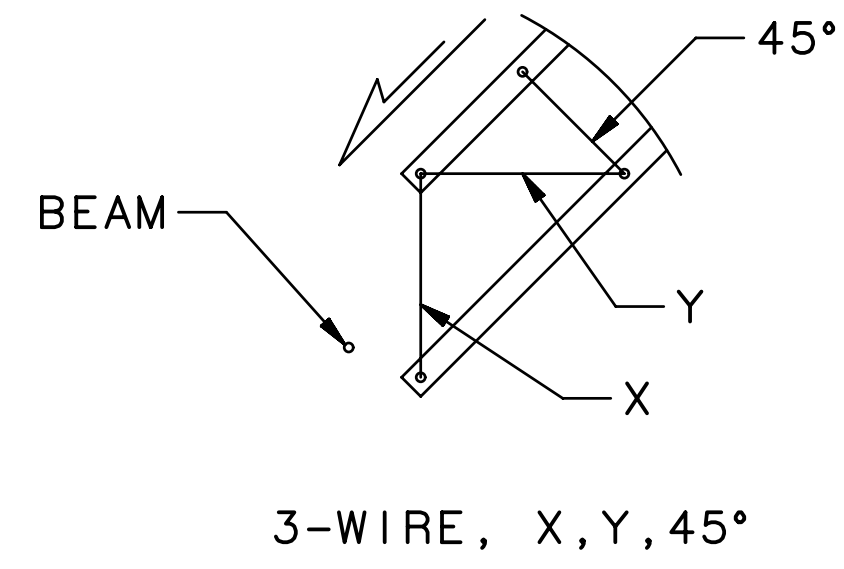
2 MACHINE CENTER IS 400.0948 METERS UPSTREAM OF "HALL CENTER"

3 CONTENTS:

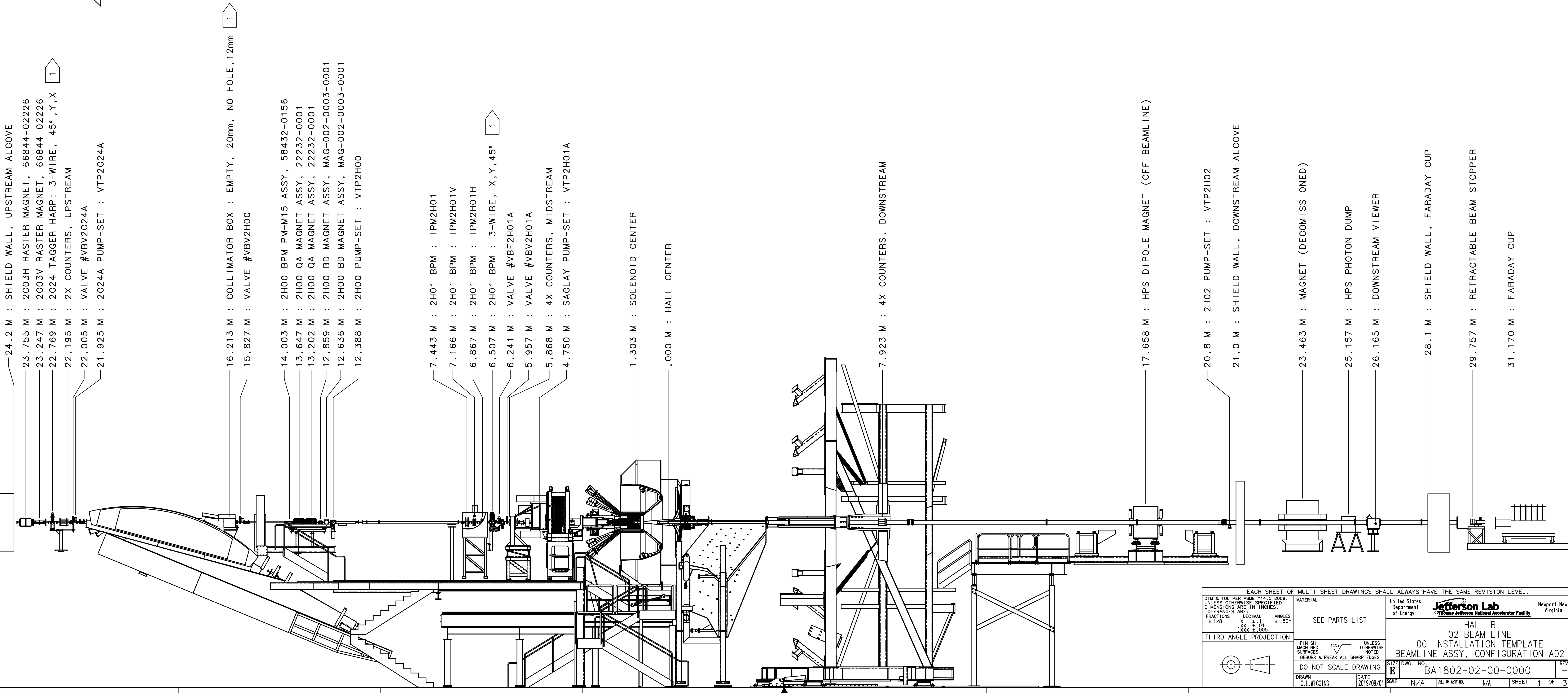
- PAGE 1: COMPONENT POSITIONING FOR REFERENCE BY COUNTING-ROOM & MCC OPERATORS
- PAGE 2: COMPONENT IDENTIFICATION FOR INSTALLATION BY TECHNICAL STAFF
- PAGE 3: IDENTIFICATION OF MATERIALS IN THE BEAM, & BEAMLINE SHIELDING

4 BEAM-TUBE IDENTIFICATION:

- FORMAT: A - B - C, L
- A = UPSTREAM FLANGE SIZE
- B = TUBE OD
- C = DOWNSTREAM FLANGE SIZE
- D = LENGTH
- CONFLAT FLANGES UNLESS SPECIFIED



FOR CONTINUATION  
SEE DRAWING NO.  
28405-0034



- 24.2 M : SHIELD WALL, UPSTREAM ALCOVE
- 23.755 M : 2C03H RASTER MAGNET, 66844-02226
- 23.247 M : 2C03V RASTER MAGNET, 66844-02226
- 22.769 M : 2C24 TAGGER HARP: 3-WIRE, 45°, Y,X
- 22.195 M : 2X COUNTERS, UPSTREAM
- 22.005 M : VALVE #VBV2024A
- 21.925 M : 2C24A PUMP-SET : VTP2024A
- 16.213 M : COLLIMATOR BOX : EMPTY, 20mm, NO HOLE, 12mm
- 15.827 M : VALVE #VBV2H00
- 14.003 M : 2H00 BPM PM-M15 ASSY, 58432-0156
- 13.647 M : 2H00 QA MAGNET ASSY, 22232-0001
- 13.202 M : 2H00 QA MAGNET ASSY, 22232-0001
- 12.859 M : 2H00 BD MAGNET ASSY, MAG-002-0003-0001
- 12.636 M : 2H00 BD MAGNET ASSY, MAG-002-0003-0001
- 12.388 M : 2H00 PUMP-SET : VTP2H00

- 7.443 M : 2H01 BPM : IPM2H01
- 7.166 M : 2H01 BPM : IPM2H01V
- 6.867 M : 2H01 BPM : IPM2H01H
- 6.507 M : 2H01 BPM : 3-WIRE, X,Y,45°
- 6.241 M : VALVE #VBF2H01A
- 5.957 M : VALVE #VBV2H01A
- 5.868 M : 4X COUNTERS, MIDSTREAM
- 4.750 M : SACLAY PUMP-SET : VTP2H01A

- 1.303 M : SOLENOID CENTER
- .000 M : HALL CENTER

- 7.923 M : 4X COUNTERS, DOWNSTREAM

- 17.658 M : HPS DIPOLE MAGNET (OFF BEAMLINE)

- 20.8 M : 2H02 PUMP-SET : VTP2H02

- 21.0 M : SHIELD WALL, DOWNSTREAM ALCOVE

- 23.463 M : MAGNET (DECOMMISSIONED)

- 25.157 M : HPS PHOTON DUMP

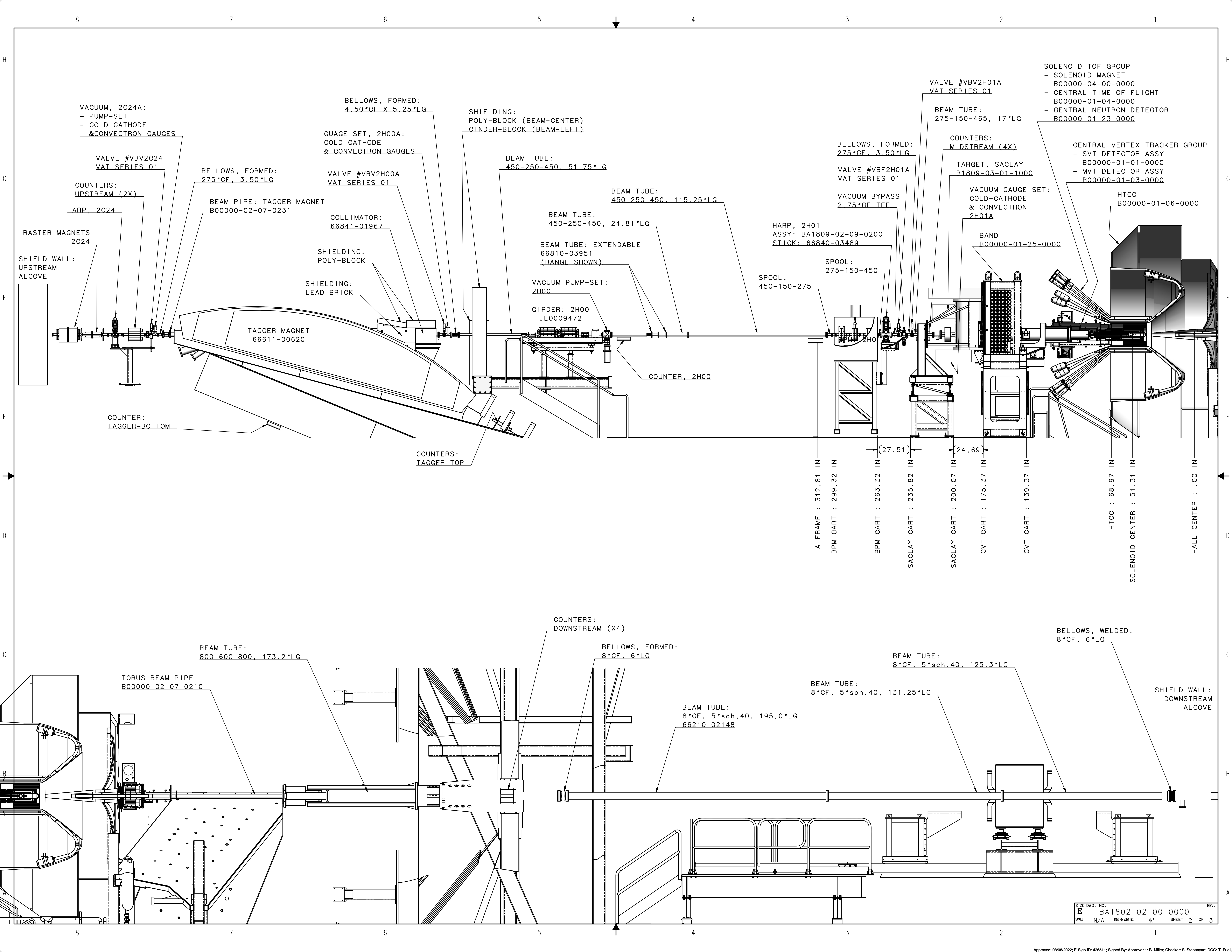
- 26.165 M : DOWNSTREAM VIEWER

- 28.1 M : SHIELD WALL, FARADAY CUP

- 29.757 M : RETRACTABLE BEAM STOPPER

- 31.170 M : FARADAY CUP

EACH SHEET OF MULTI-SHEET DRAWINGS SHALL ALWAYS HAVE THE SAME REVISION LEVEL.		United States Department of Energy	
<small>DTW &amp; TOL PER ASME Y14.5 2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:</small> FRACTIONS ± 1/32 DECIMAL ± .01 ANGLES ± 30° <small>XX ± .01</small> <small>XXX ± .005</small>		<b>Jefferson Lab</b> <small>Thomas Jefferson National Accelerator Facility</small> Newport News Virginia	
THIRD ANGLE PROJECTION	SEE PARTS LIST	HALL B 02 BEAM LINE 00 INSTALLATION TEMPLATE BEAMLINE ASSY, CONFIGURATION A02	
<small>FINISH MACHINED SURFACES DEBURR &amp; BREAK ALL SHARP EDGES</small> DO NOT SCALE DRAWING DRAWN C.L. WIGGINS	<small>UNLESS OTHERWISE NOTED</small> 125 DATE 2019/09/01 SCALE N/A (REQ ON ASSY NO.) N/A	SIZE DWG. NO. E BA1802-02-00-0000 SHEET 1 OF 3	REV. - SHEET 1 OF 3



SIZE DWG. NO. E BA1802-02-00-0000 REV. -  
 SCALE N/A (REV OR ASSY NO. N/A) SHEET 2 OF 3

**TABLE -A-**  
MATERIALS IN THE BEAM LINE

ITEM	DESCRIPTION		MATERIAL	THICKNESS	LOCATION (Z)
I	TARGET CELL ENTRY	B00000-03-01-0100	ALUMINUM	30um	1328.27mm
II	TARGET CELL EXIT	B00000-03-01-0100	ALUMINUM	30um	1278.27mm
III	CELL MLI BARRIER		ALUMINUM	15um	1248.27mm
IV	SCATTERING CHAMBER EXIT	B00000-03-01-0300	ALUMINUM	50um	1017.27mm
V	VACUUM VOL. ENTRY (DOWNSTREAM)	B00000-02-07-0210	ALUMINUM	75um	311.24mm

