

NOTES:

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

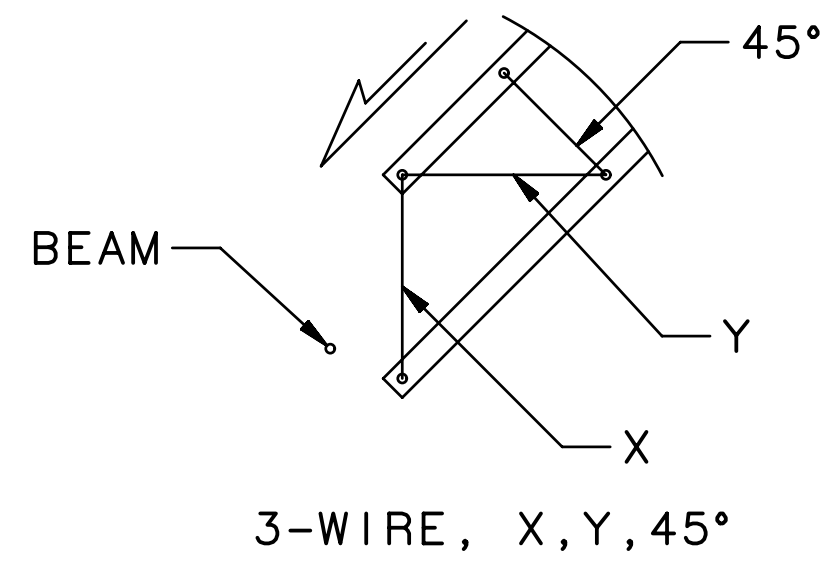
2 MACHINE CENTER IS 400.0948 METERS UPSTREAM OF "HALL CENTER"

3 CONTENTS:

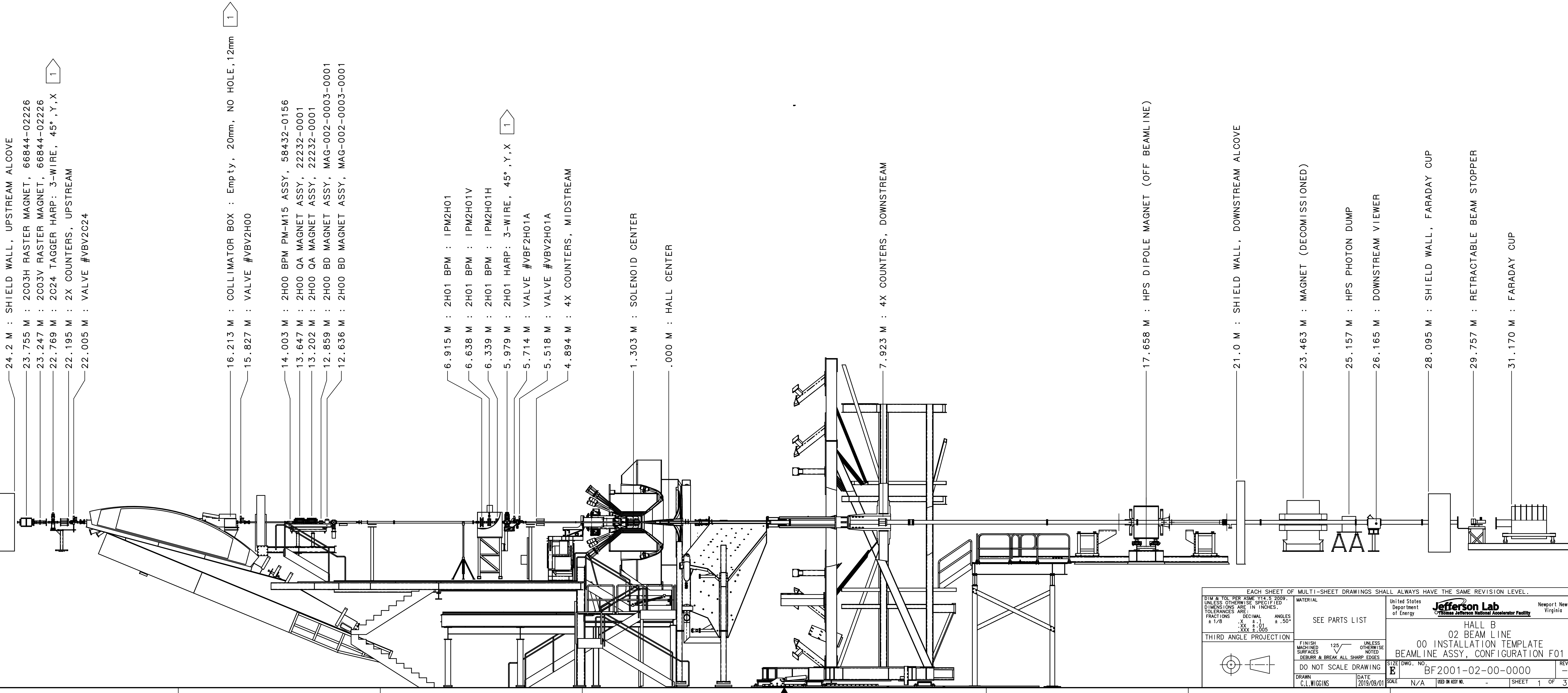
PAGE 1: COMPONENT POSITIONING FOR REFERENCE BY COUNTING-ROOM & MCC OPERATORS  
 PAGE 2: COMPONENT IDENTIFICATION FOR INSTALLATION BY TECHNICAL STAFF  
 PAGE 3: IDENTIFICATION OF MATERIALS IN THE BEAM, & BEAMLINE SHIELDING

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 : 2003H RASTER MAGNET, 66844-02226
- 23.247 M : 2003V RASTER MAGNET, 66844-02226
- 22.769 M : 2024 TAGGER HARP: 3-WIRE, 45°, Y, X
- 22.195 M : 2X COUNTERS, UPSTREAM
- 22.005 M : VALVE #VAV2024
- 16.213 M : COLLIMATOR BOX : Empty, 20mm, NO HOLE, 12mm
- 15.827 M : VALVE #VAV2H00
- 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

- 6.915 M : 2H01 BPM : IPM2H01
- 6.638 M : 2H01 BPM : IPM2H01V
- 6.339 M : 2H01 BPM : IPM2H01H
- 5.979 M : 2H01 HARP: 3-WIRE, 45°, Y, X
- 5.714 M : VALVE #VAV2H01A
- 5.518 M : VALVE #VAV2H01A
- 4.894 M : 4X COUNTERS, MIDSTREAM

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

- 7.923 M : 4X COUNTERS, DOWNSTREAM

- 17.658 M : HPS DIPOLE MAGNET (OFF BEAMLINE)

- 21.0 M : SHIELD WALL, DOWNSTREAM ALCOVE

- 23.463 M : MAGNET (DECOMMISSIONED)

- 25.157 M : HPS PHOTON DUMP

- 26.165 M : DOWNSTREAM VIEWER

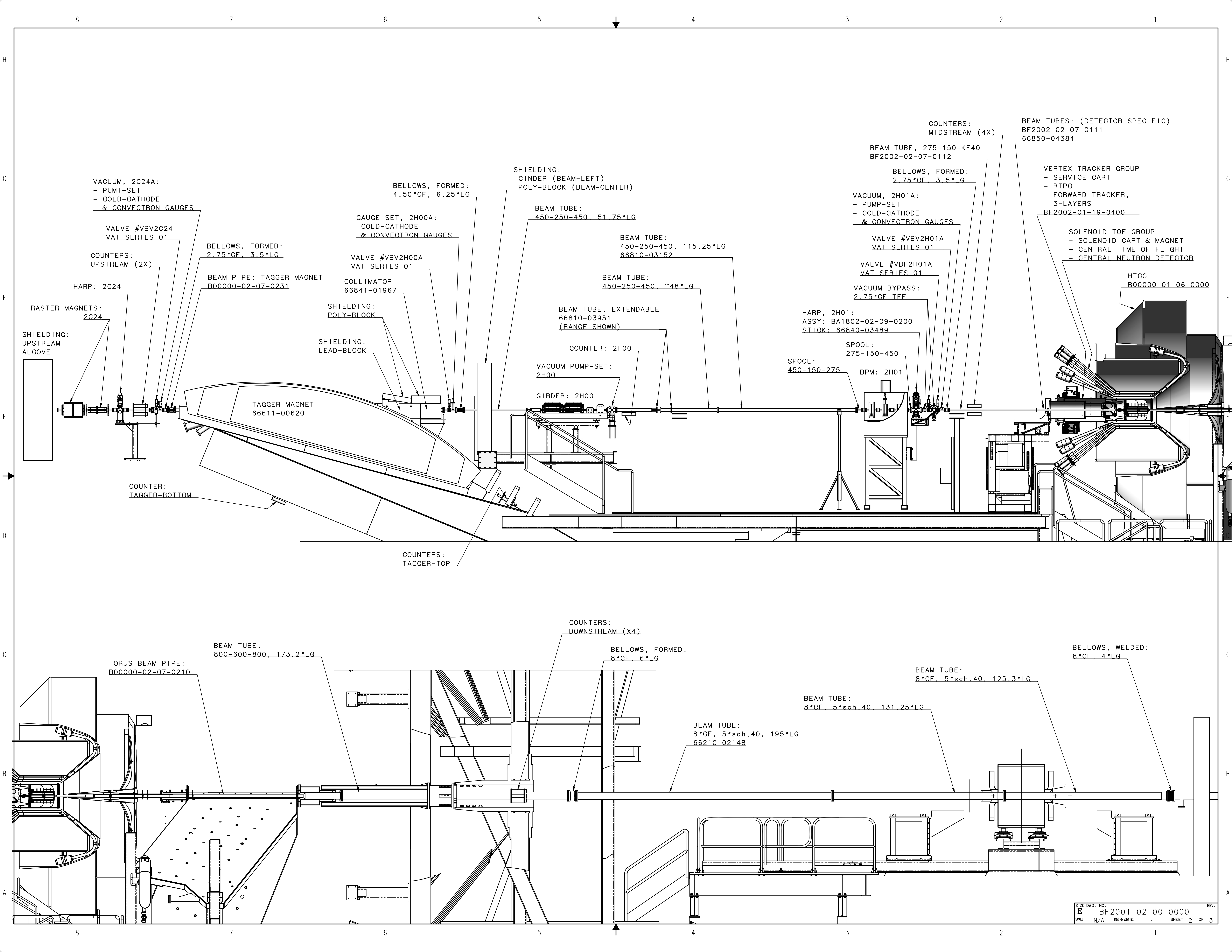
- 28.095 M : SHIELD WALL, FARADAY CUP

- 29.757 M : RETRACTABLE BEAM STOPPER

- 31.170 M : FARADAY CUP

EACH SHEET OF MULTI-SHEET DRAWINGS SHALL ALWAYS HAVE THE SAME REVISION LEVEL.

DIM & TOL PER ASME Y14.5 2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS: ± 1/16 DECIMAL: ± .01 ANGLES: ± .50° UNLESS OTHERWISE NOTED: SURFACES: DEBURR & BREAK ALL SHARP EDGES FINISH: MACHINED 125 SURFACES: UNLESS OTHERWISE NOTED	MATERIAL: SEE PARTS LIST	United States Department of Energy <b>Jefferson Lab</b> Thomas Jefferson National Accelerator Facility Newport News, Virginia
THIRD ANGLE PROJECTION DO NOT SCALE DRAWING DRAWN: C.L. WIGGINS DATE: 2019/09/01 SCALE: N/A (SEE OR ASSY NO.)	SIZE: DWG. NO. BF2001-02-00-0000 REV. 1 OF 3	HALL B 02 BEAM LINE 00 INSTALLATION TEMPLATE BEAMLINE ASSY, CONFIGURATION F01



**TABLE -A1-**  
MATERIALS IN THE BEAMLINE  
RTPC #1; 2020/02/14 - 2020/03/16  
RTPC #3; 2020/03/19 - 2020/03/24

ITEM	DESCRIPTION		MATERIAL	THICKNESS	LOCATION (Z)
I	VACUUM VOL. EXIT (UPSTREAM)	66850-04384	ALUMINUM	15um	1608.99mm
II	TARGET VOL. ENTRY	66850-04876	ALUMINUM	15um	1600.03mm
III	TARGET VOL. EXIT	66850-04876	ALUMINUM	15um	1046.71mm
IV	BUFFER VOL. EXIT	BF2002-01-19-1020	ALUMINUM	15um	481.07mm
V	VACUUM VOL. ENTRY (DOWNSTREAM)	B00000-02-07-0210	ALUMINUM	75um	311.24mm

**TABLE -A2-**  
MATERIALS IN THE BEAMLINE  
RTPC #3; 2020/08/02 - 2020/09/01

ITEM	DESCRIPTION		MATERIAL	THICKNESS	LOCATION (Z)
I	VACUUM VOL. EXIT (UPSTREAM)	66850-04384	ALUMINUM	15um	1608.99mm
II	TARGET VOL. ENTRY	66850-04876	ALUMINUM	30um	1600.03mm
III	TARGET VOL. EXIT	66850-04876	ALUMINUM	30um	1046.71mm
IV	BUFFER VOL. EXIT	BF2002-01-19-1020	ALUMINUM	15um	481.07mm
V	VACUUM VOL. ENTRY (DOWNSTREAM)	B00000-02-07-0210	ALUMINUM	75um	311.24mm

**TABLE -A3-**  
MATERIALS IN THE BEAMLINE  
RTPC #3; 2020/09/03 - 2020/09/21

ITEM	DESCRIPTION		MATERIAL	THICKNESS	LOCATION (Z)
I	VACUUM VOL. EXIT (UPSTREAM)	66850-04384	ALUMINUM	15um	1638.99mm
II	TARGET VOL. ENTRY	66850-04876	ALUMINUM	30um	1600.03mm
III	TARGET VOL. EXIT	66850-04876	ALUMINUM	30um	1046.71mm
IV	BUFFER VOL. EXIT	BF2002-01-19-1020	ALUMINUM	15um	481.07mm
V	VACUUM VOL. ENTRY (DOWNSTREAM)	B00000-02-07-0210	ALUMINUM	75um	311.24mm

