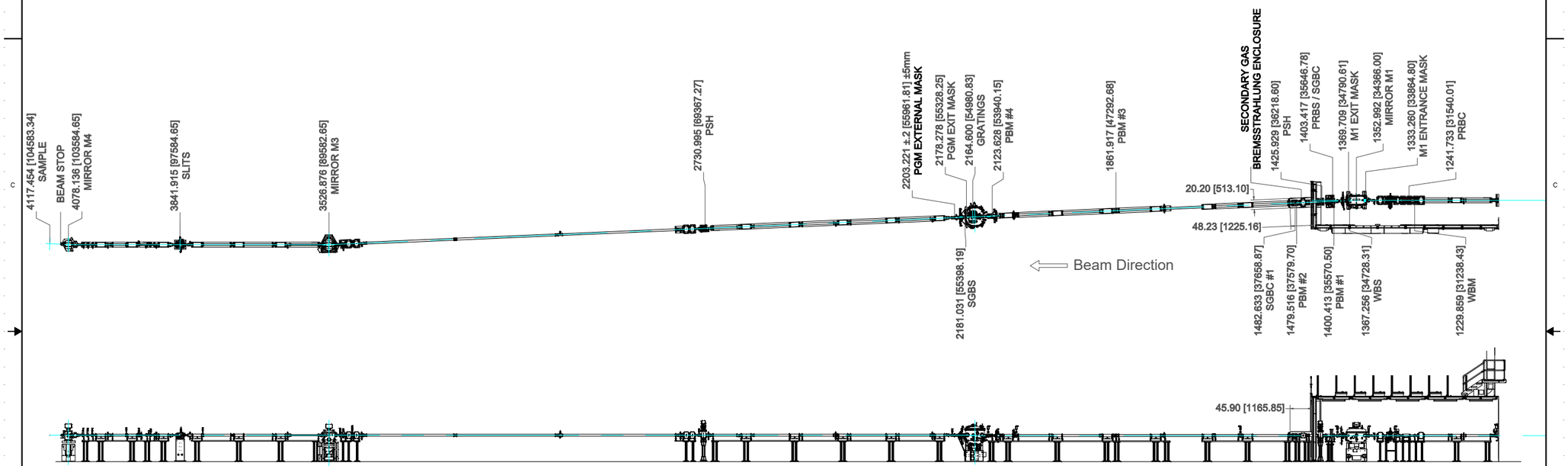
REVISION HISTORY					
REV	DESCRIPTION	DATE	DESIGNER	CHECKED BY	ENGINEER
A	RELEASE PER ECO 004435	8/16/2016	S. PJEROV	C. STELMACH	Y. ZHU

NOTES:
1. FE REFERENCE DRAWING SR-FE-EPU02-1001 REV. B
2. THE CENTER OF LONG STRAIGHT SECTION IS THE ORIGIN FOR ALL DIMENSIONS UNLESS OTHERWISE NOTED.
3. BLUE AND MAGENTA COLORED RAYS ARE DETERMINED BY TOLERANCE APERTURES. GREEN COLORED RAYS ARE DETERMINED BY NOMINAL APERTURES.
4. DIMENSIONS PBM #1, #2, #3 AND #4 ARE TO GLIDCOP BLOCK FRONT SURFACE.
5. ALL DIMENSIONS ARE IN INCHES, IN BRACKETS [XX.XX] ARE MILLIMETERS AND ARE FOR REFERENCE ONLY.
6. SEE MEMO DATED FEB, 2. 2017 FOR:
FOLLOW UP OF RECOMMENDATIONS FROM THE RSC ON THE RADIATION SAFETY CONFIGURATION DESIGN OF THE 2-ID, SIX, BEAMLINE.



SPECIFICATIONS		REFERENCE
Project	NEXT PROJECT	NX-C-XFD-RSI-001
Source	EPU 57	NX-C-XFD-RSI-001
Beam Line Name	SIX INELASTIC X-RAY SCATTERING	NX-C-XFD-RSI-001
Abbreviation	SIX	NX-C-XFD-RSI-001
Period of insertion device	57 mm	NX-C-XFD-RSI-001
Long / Short Straight / Cell	LONG / 02-ID	NX-C-XFD-RSI-001
Length of Source	7000 mm	NX-C-XFD-RSI-001
Location of Center of Source (from Center of Straight)	0	NX-C-XFD-RSI-001
Ray Tracing Procedure		PS-C-XFD-PRC-008 (Version 2)
Front End Ray Tracing Drawing		SR-FE-EPU02-1001 (REV. B)

SIX BEAMLINE LAYOUT
SCALE 1:75

ABBREVIATIONS:
DS - DOWNSTREAM
LCO - LEAD COLLIMATOR
PBBS - PINK BEAM BAFFLE SLITS
PBM - PINK BEAM MASK
PBS - PINK BEAM STOP
PRBC - PRIMARY BREMSSTRAHLUNG COLLIMATOR
PRBS - PRIMARY BREMSSTRAHLUNG STOP
PGM - PLANE GRATING MONOCHROMATER
PSH - PHOTON SHUTTER
SGBC - SECENDARY GAS BREMSSTRAHLUNG COLLIMATOR
SGBS - SECENDARY GAS BREMSSTRAHLUNG STOP
US - UPSTREAM
WBM - WHITE BEAM MASK
WBS - WHITE BEAM STOP

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
DIMENSIONS IN BRACKETS [xx.xx] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY
INTERPRET DIMENSIONS AS PER ANSI Y14.5-1994 OR Y14.5-1973
DIMENSIONAL TOLERANCE: X ± 0.060, X.X ± 0.030, XX.X ± 0.015, XXX.X ± 0.005
ANGULAR TOLERANCE: ± 5°
FINISH: 125 √
BREAK EDGES & SHARP CORNERS 0.010 MIN. TO 0.030 MAX.

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CHECKED BY:	C. STELMACH	9/2016
VACUUM APPROVAL:		
MATERIAL APPROVAL:	Y. ZHU	9/2016
SUPERVISOR APPROVAL:	I. JARRIGE	9/2016
CMM APPROVAL:	L. STIEGLER	9/2016
QA APPROVAL:	J. ZIPPER	9/2016

PHOTON DIVISION
SIX RAY TRACING
SIX BEAMLINE RAY TRACING

SIZE: E — DRAWING/PART NUMBER: PD-SIX-RAYT-0001 — REVISION: A
ESH&Q RISK LEVEL: A-1 — SHEET 1 OF 11

NEXT ASSY:
PROJECT: SIX BEAMLINES
THIRD ANGLE PROJECTION — SCALE: NOTED — WBS# 2.09.02.01

TEMPLATE:PD-TP-CS-A-A-V1-001

RELEASED – EFFECTIVE