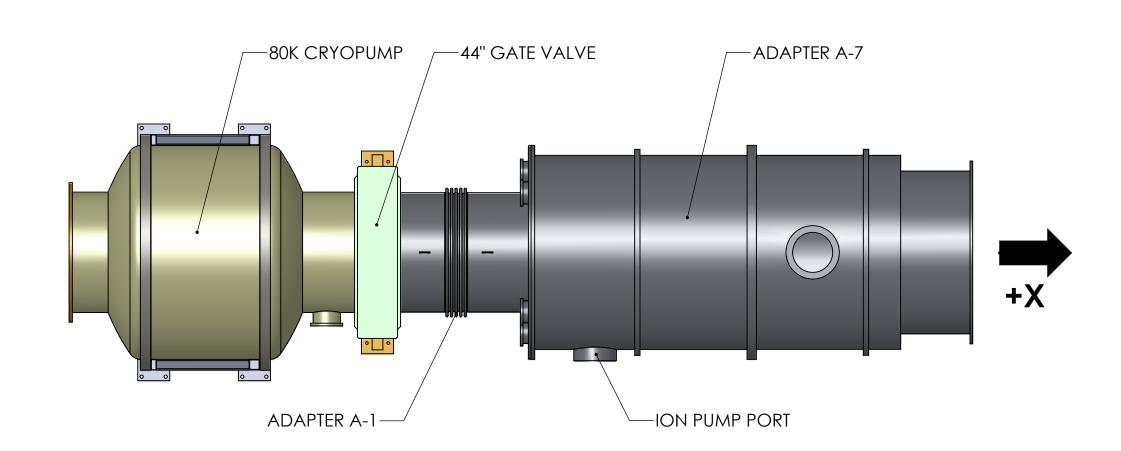
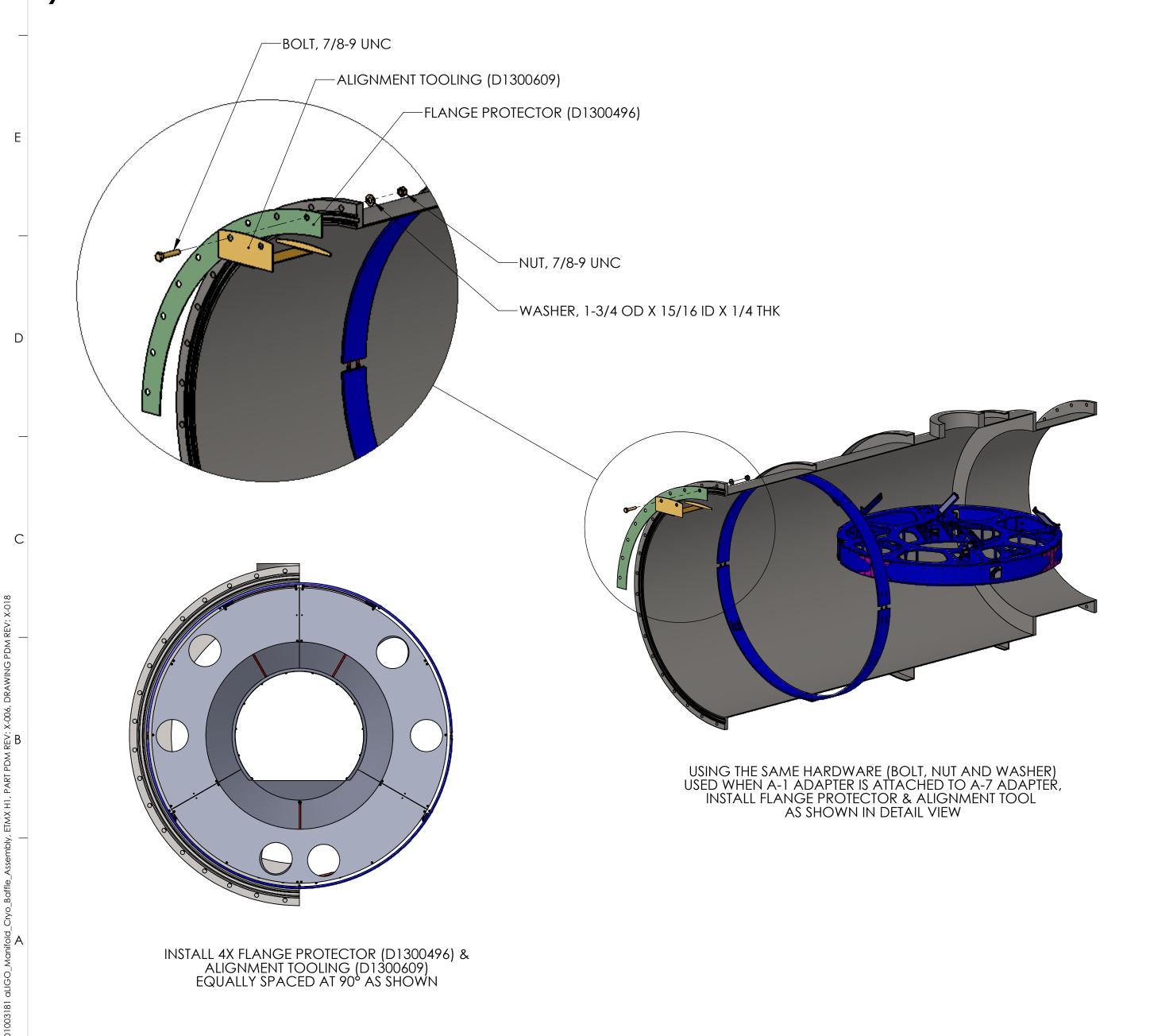


# INSTALLATION OF MANIFOLD CRYOPUMP BAFFLE INTO A-7 ADAPTER (LHO & LLO X-END STATION)

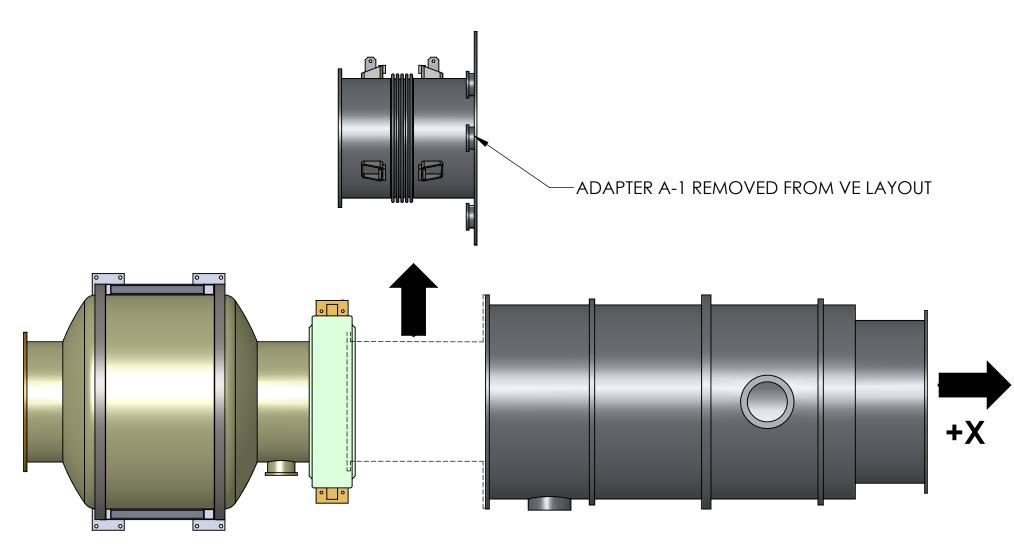
### 1) PARTIAL VE LAYOUT (LHO & LLO X-END STATION)



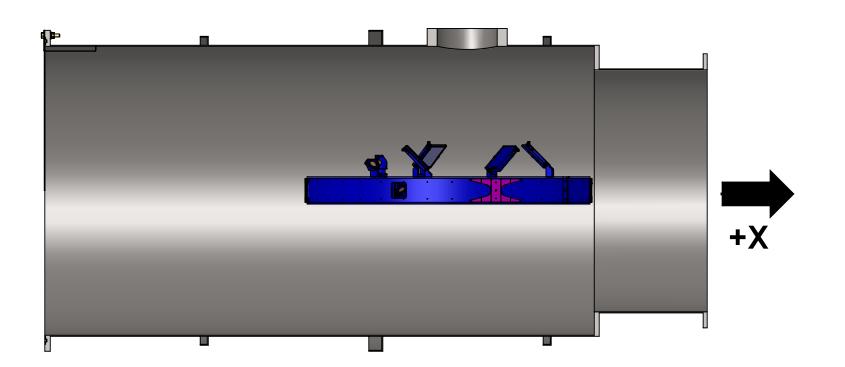
### 3) INSTALL FLANGE PROTECTOR & ALIGMENT TOOLING AT A-7 ADAPTER



### 2) REMOVE A-1 ADAPTER

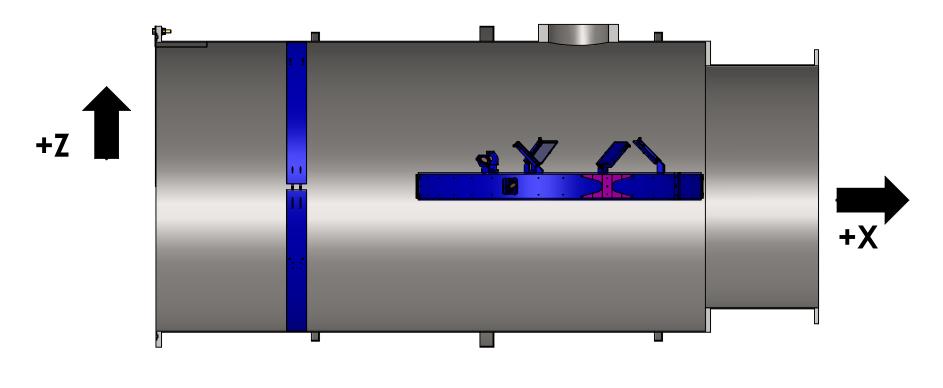


#### 4) INSERT PCAL-VIDEO CAM PERISCOPE INSIDE A-7 ADAPTER



INSERT PCAL-VIDEO CAM PERISCOPE INSIDE A-7 ADAPTER FAR ENOUGHTO TO HAVE ROOM TO INSERT CRYOPUMP BAFFLE. LAID IT DOWN HORIZONTALLY TO ALLOW ACCESSOF PERSONNEL ENTERING FROM BSC CHAMBER TO WALK TO THE OPENING OF A-7 ADAPTER AND ASSIST IN THE INSTALLATION OF BAFFLE. (FINAL POSITION OF PCAL WILL BE DEFINED AFTER FINAL LOCATION OF CRYOPUMP BAFFLE)

# 5) INSERT SUPPORT RING ASSEMBLY (D1002084) INSIDE A-7 ADAPTER



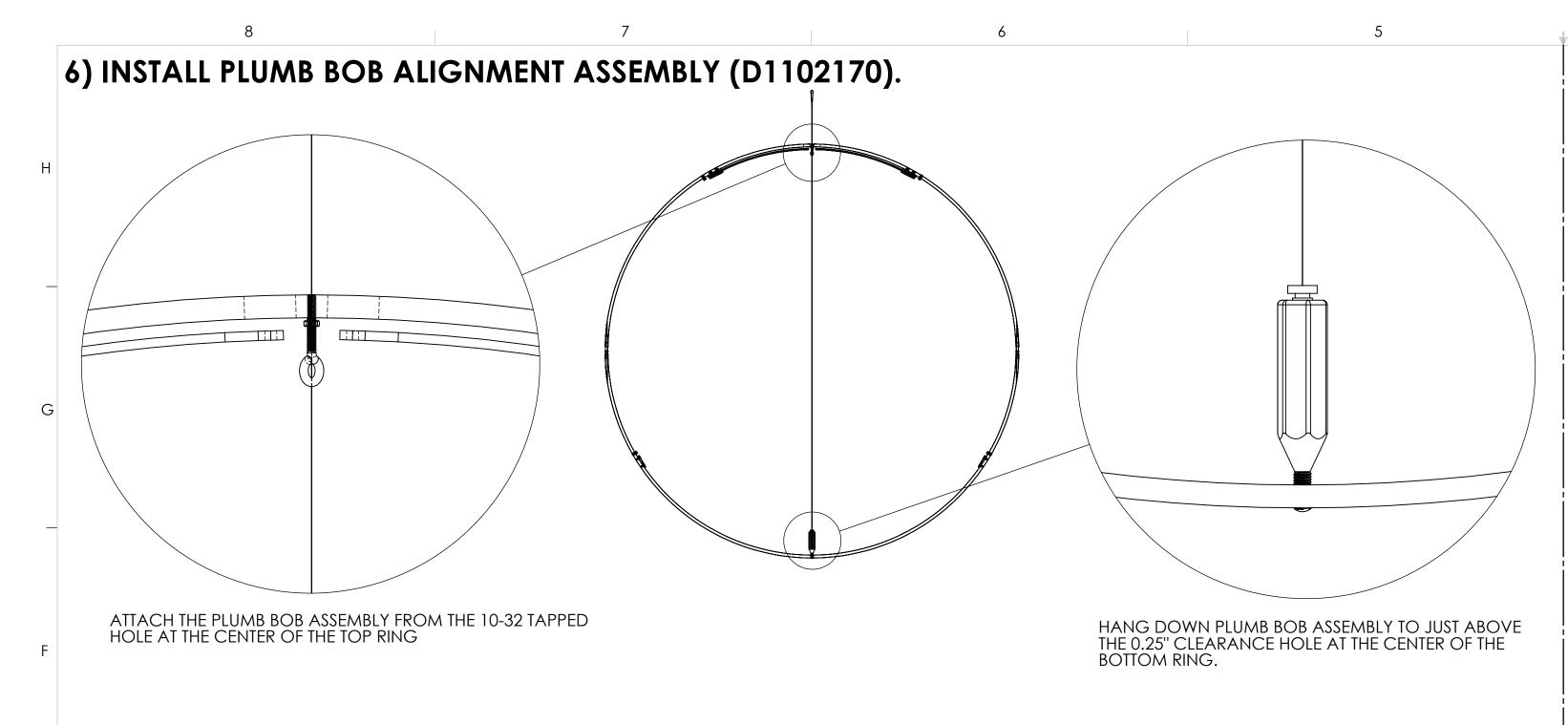
INSERT SUPPORT RING ASSEMBLY (D1002084) INTO A-7 ADAPTER FAR ENOUGH TO HAVE ROOM TO INSTALL THE ALIGMENT TOOLING TO POSITION THE CRYO BAFFLE AT THE FINAL LOCATION.

- THE BEVELED SIDE OF THE SUPPORT RING MUST FACE TOWARD THE EMTX

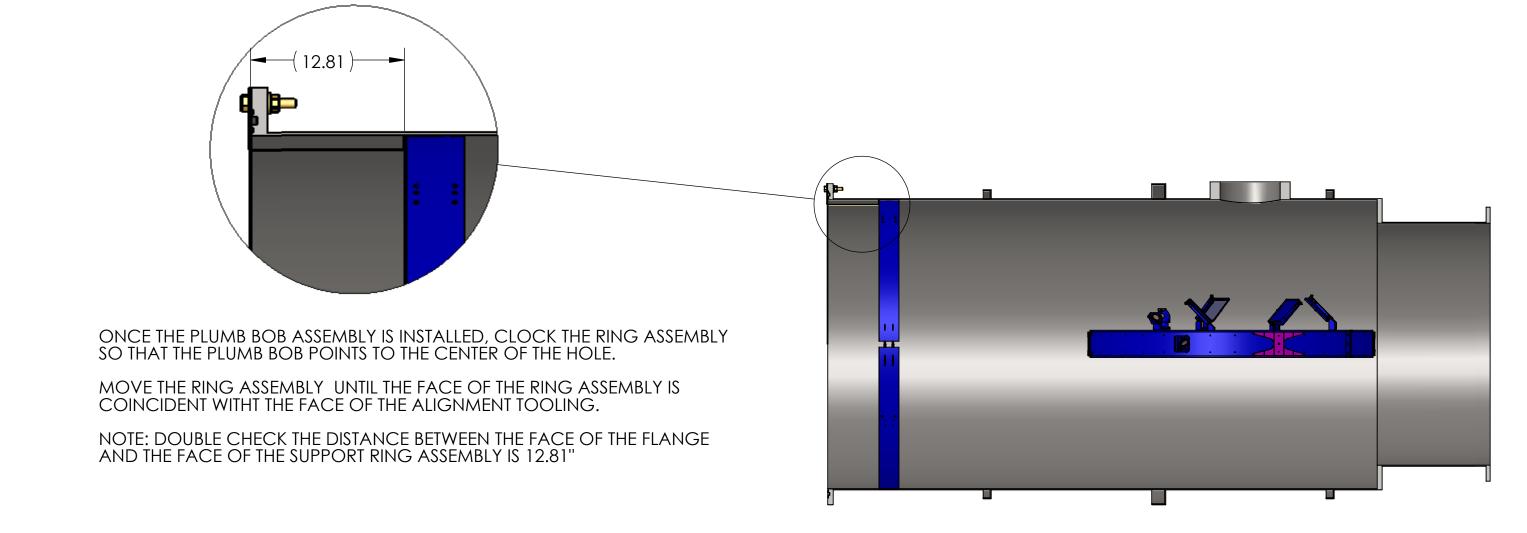
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D REV.

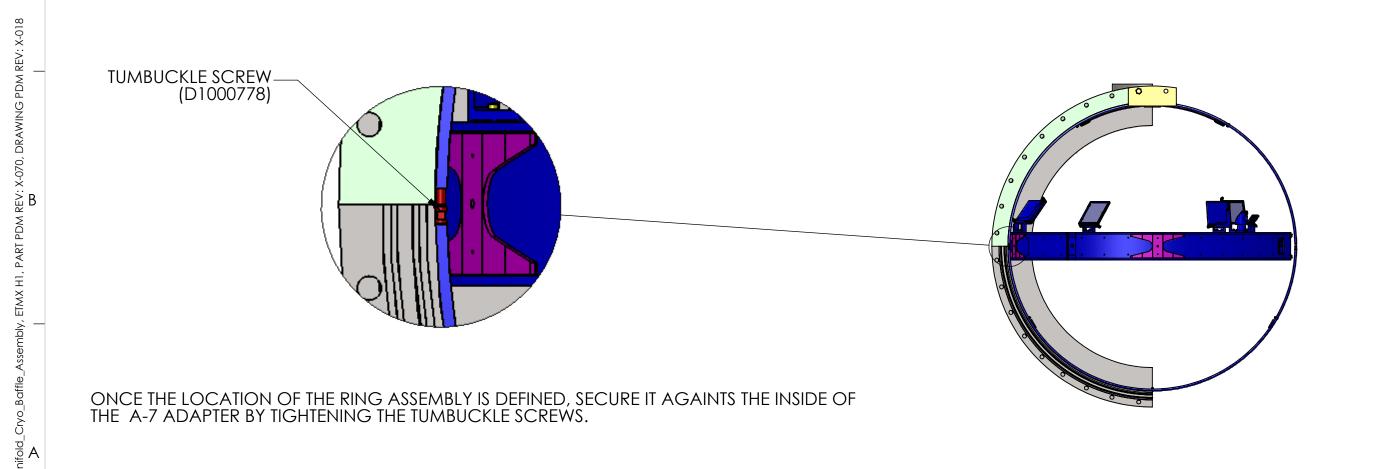
D SCALE: 1:48 PROJECTION: SHEET 3 OF 5



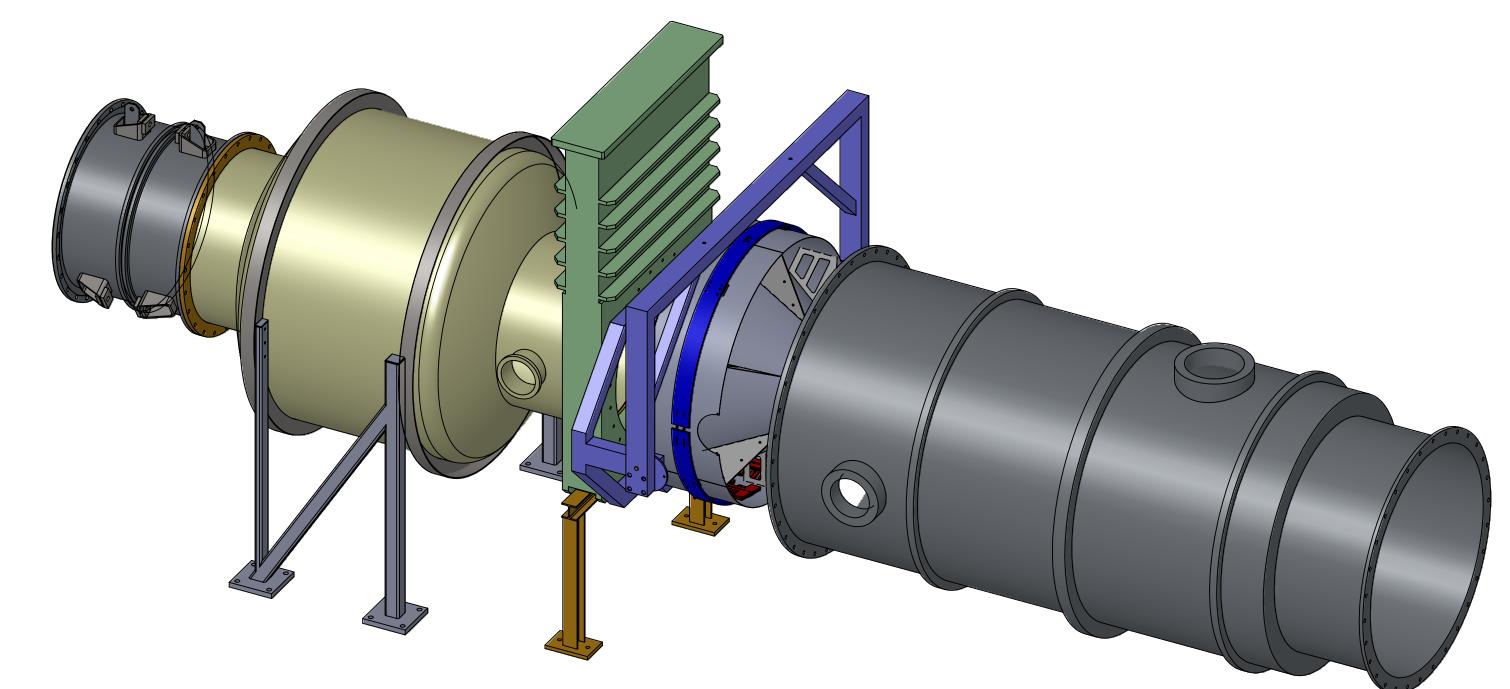
#### 7) DEFINE LOCATION OF SUPPORT RING ASSEMBLY



#### c 8) SECURE THE SUPPORT RING ASSEMBLY

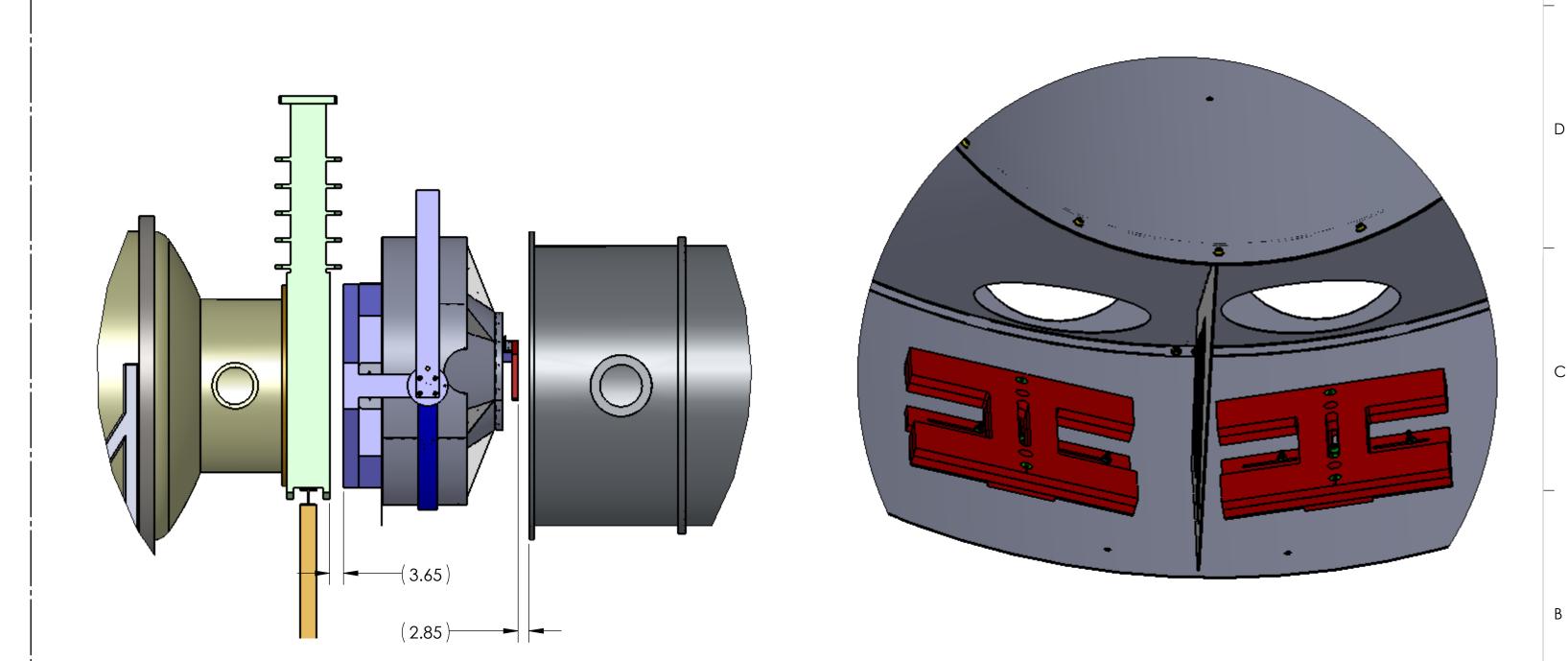


# 9) COMPLETE INSTALLATION OF THE MANIFOLD CRYOPUMP BAFFLE ASSEMLBY



- ATTACH THE LIFT FIXTURE ASSEMBLY TO AN OVERHEAD LIFTING CRANE BY MEANS OF LIFTING STRAPS.
- MAKE SURE THE CUTOUT IN CRYOPUMP BAFFLE IS IN THE SAME SIDE AS THE ION PUMP PORT

NOTE: FOR A DETAILED INSTALLATION PROCEDURE OF THE MANIFOLD CRYOPUMP BAFFLE REFER TO INSTALLATION DOCUMENT E1300577.

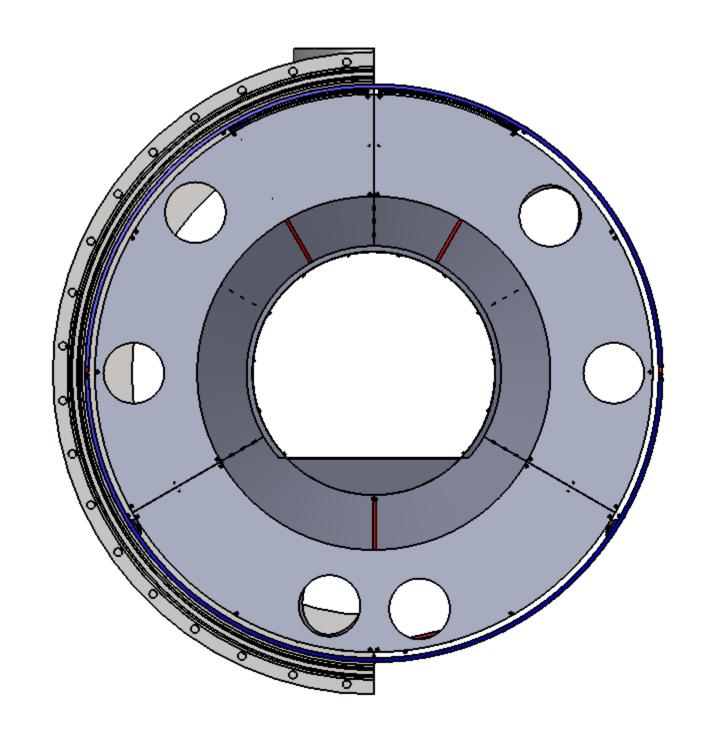


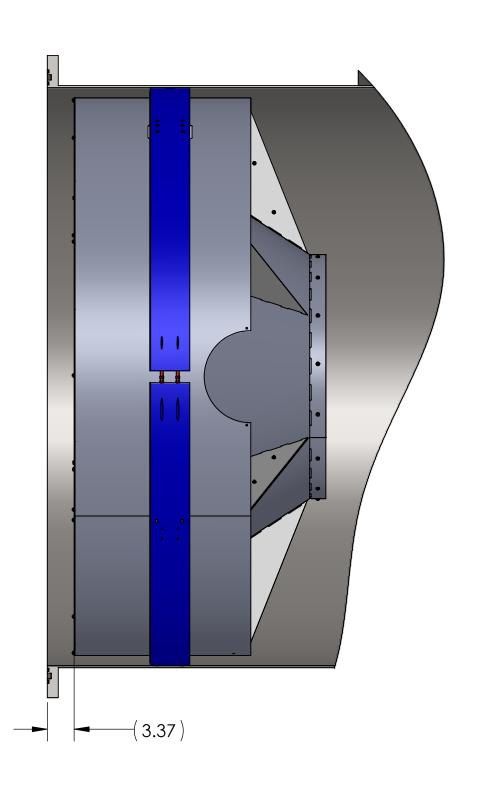
- THERE IS A CLEARANCE OF ABOUT 6.5" BETWEEN THE GATE VALVE AND THE A-7 ADAPTER, TO MANIPULATE THE LIFT FIXTURE WITH THE CRYOPUMP BAFFLE ASSEMBLY.

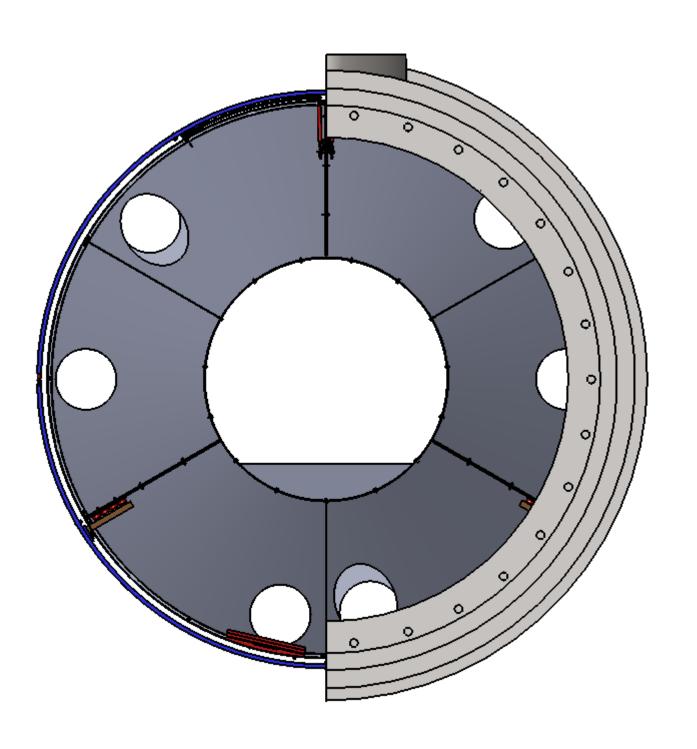
- MAKE SURE THE BALANCE WEIGHT ASSEMBLY (D1002402) IS AT THE CORRECT ORIENTATION OF THE ARROWS.

CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY SIZE DWG. NO. SCALE: 1:24 PROJECTION: SHEET 4 OF 5

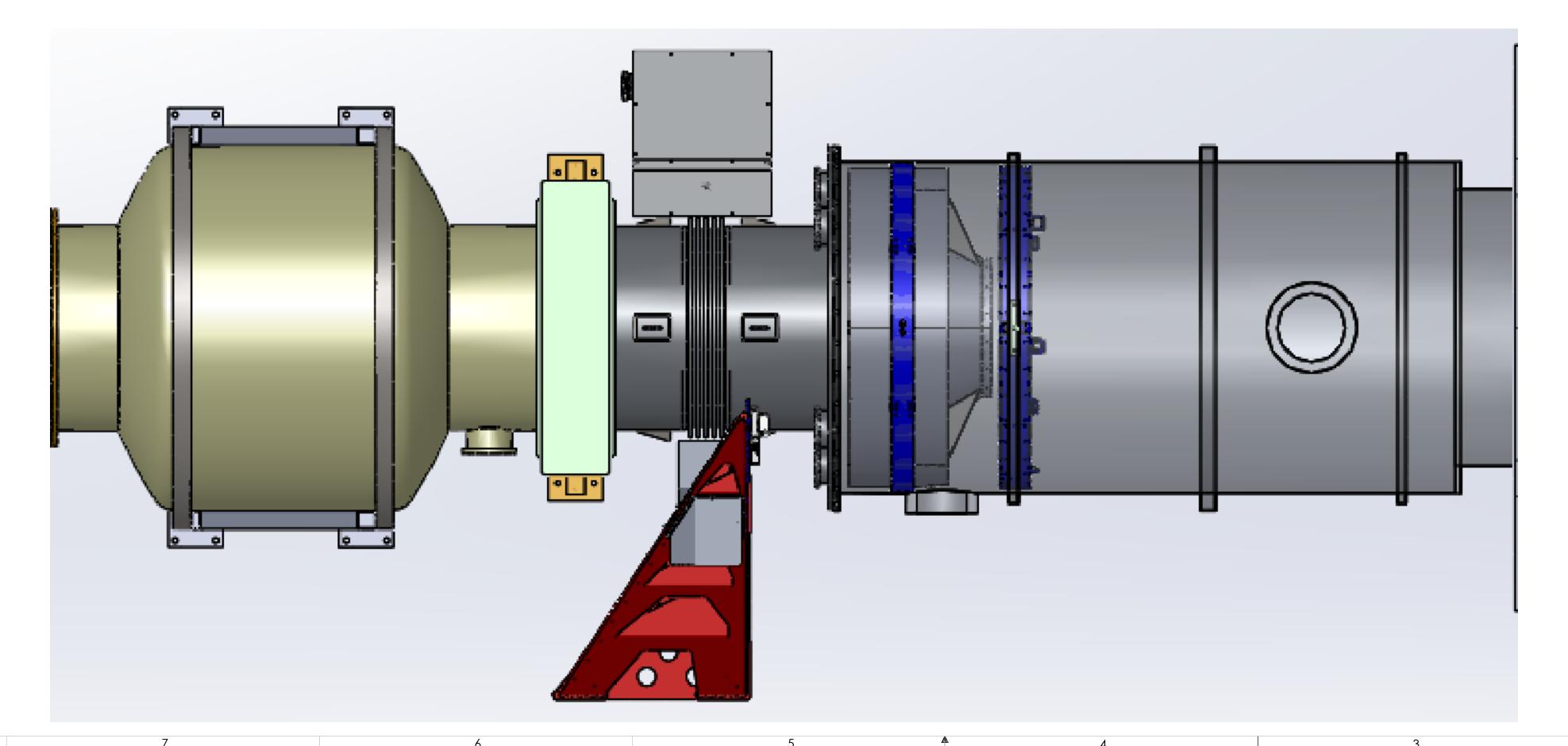
# 10) CRYOPUMP BAFFLE FINAL LOCATION INSIDE A-7 ADAPTER AT LHO & LLO X-END STATION







# 11) TOP VIEW WITH CRYOPUMP BAFFLE FINAL LOCATION AT LHO & LLO X-END STATION





D1003181 aLIGO\_Manifold\_Cryo\_Baffle\_Assembly, ETMX H1, PART PDM REV: X-049, [