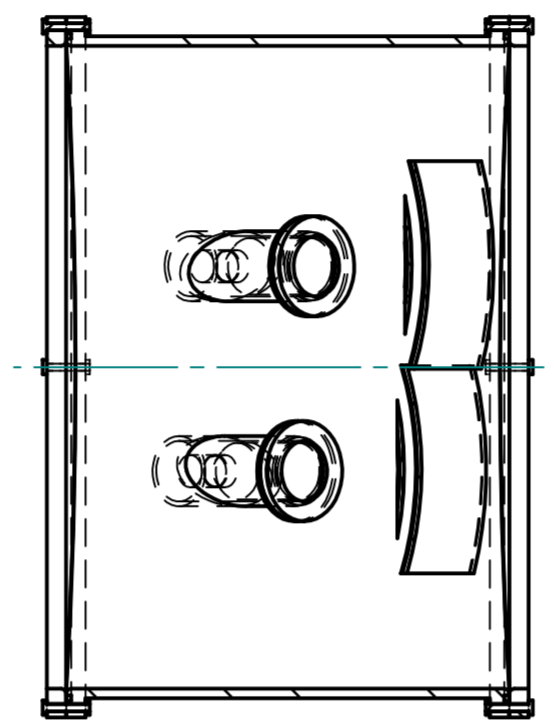
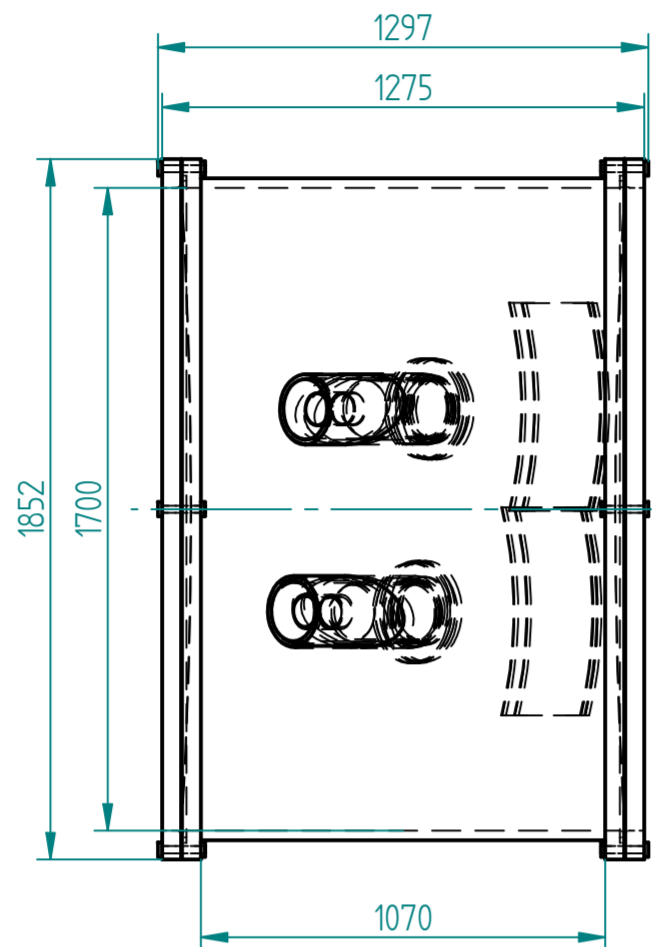
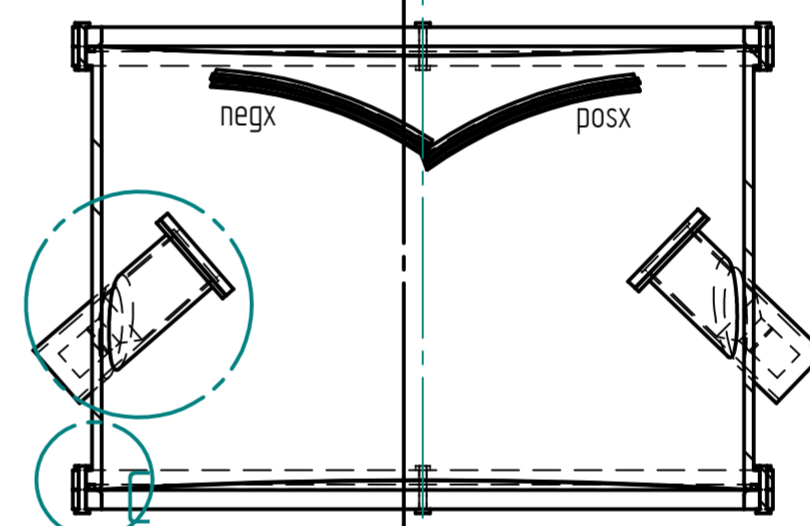
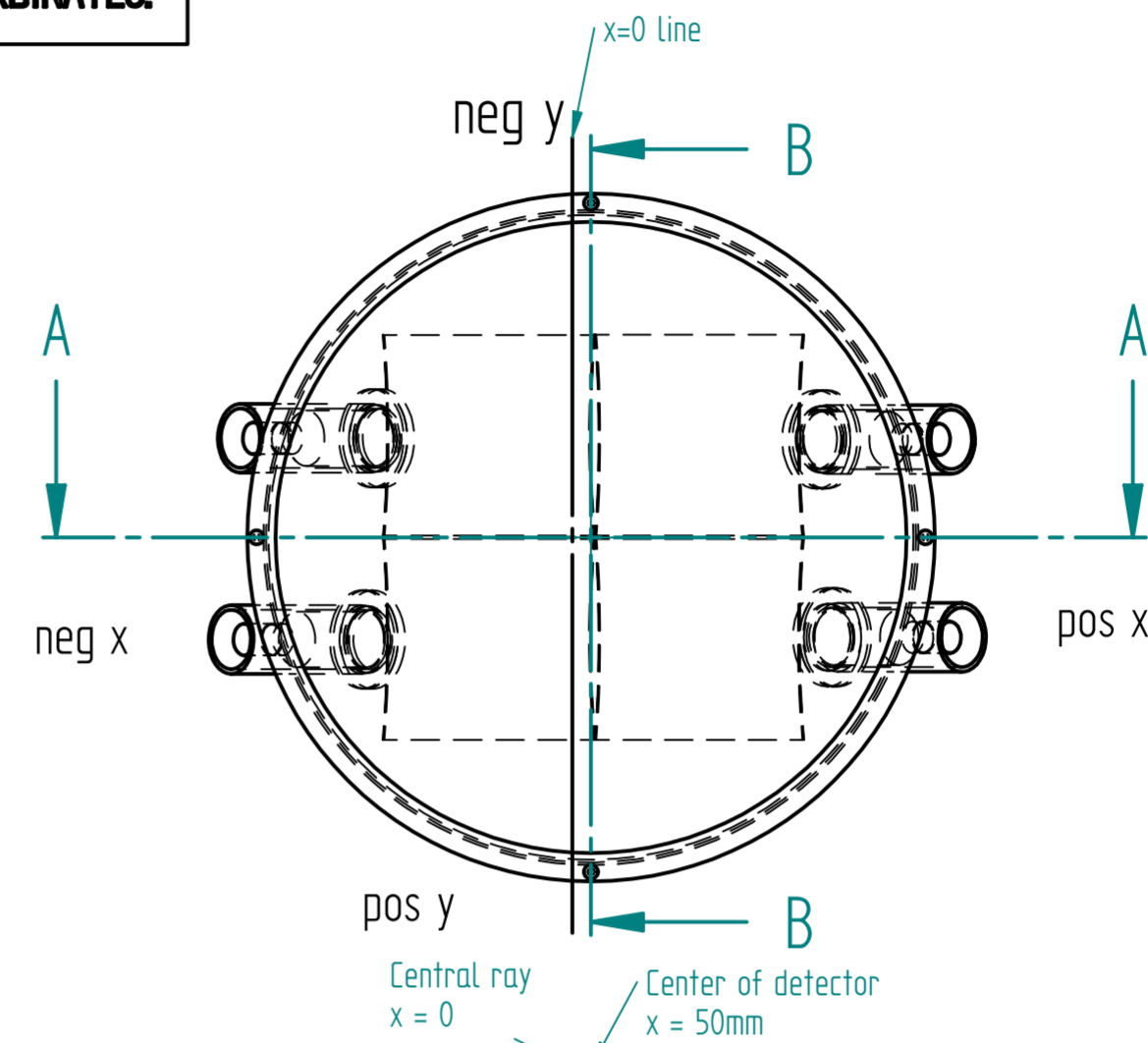


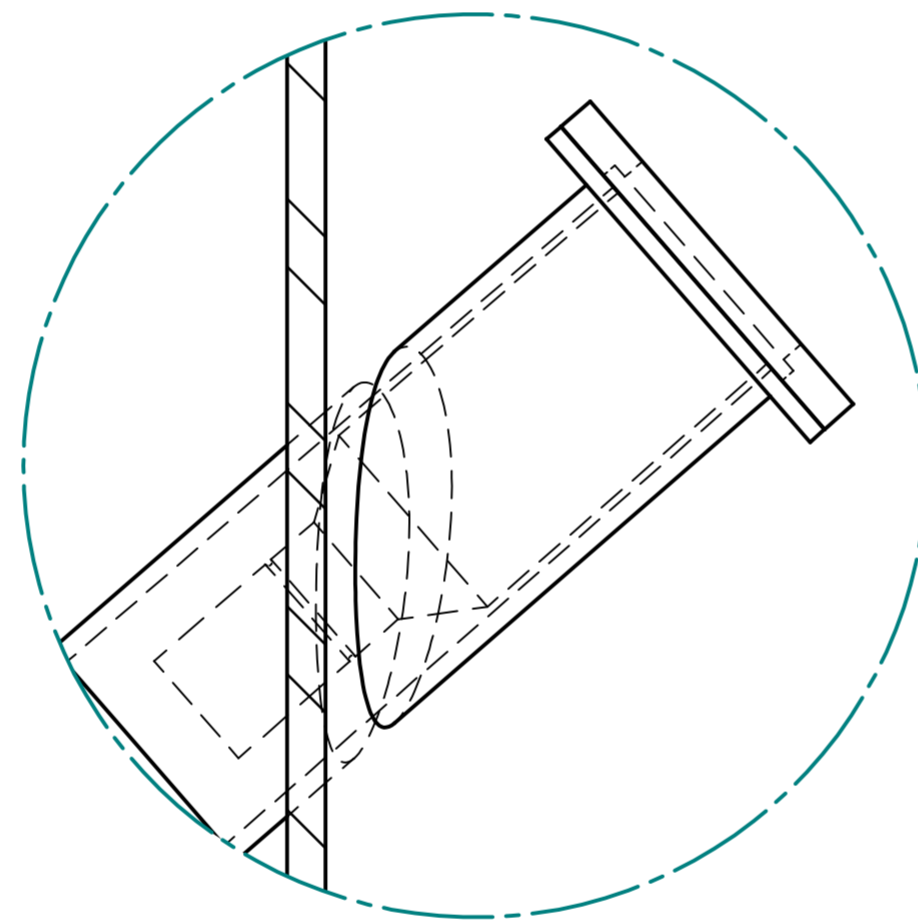
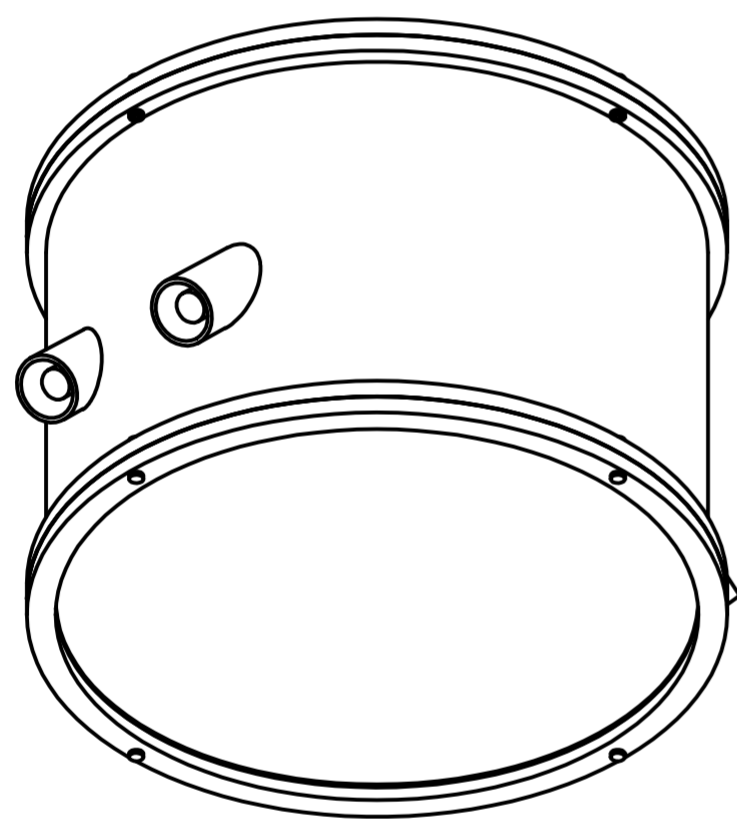
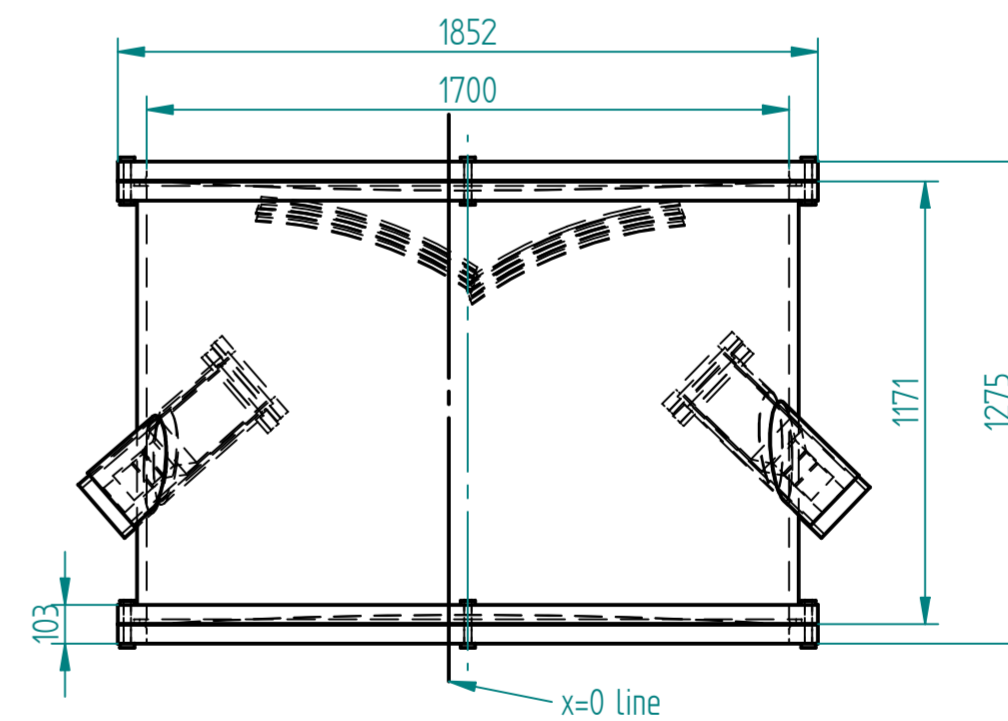
DIAGRAM IS IN TRANSPORT COORDINATES NOT ENGINEERING COORDINATES.



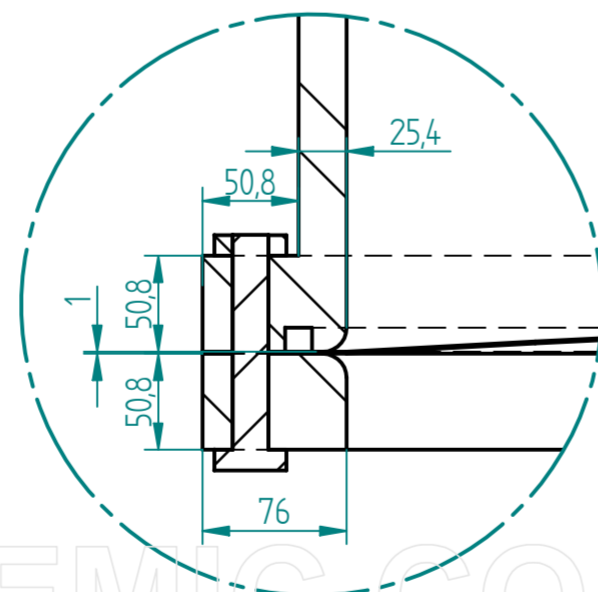
SECTION B-B



SECTION A-A



DETAIL C

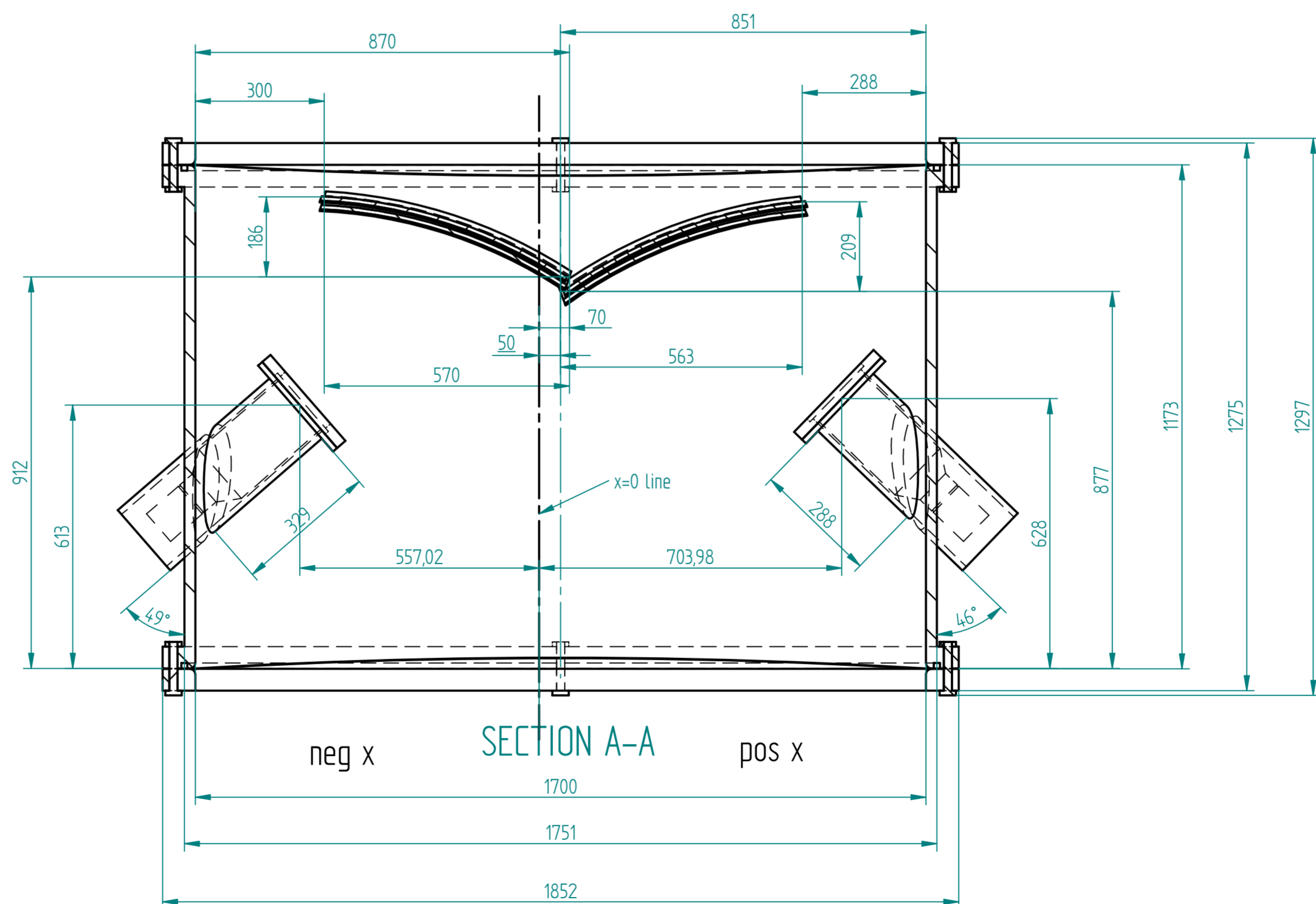
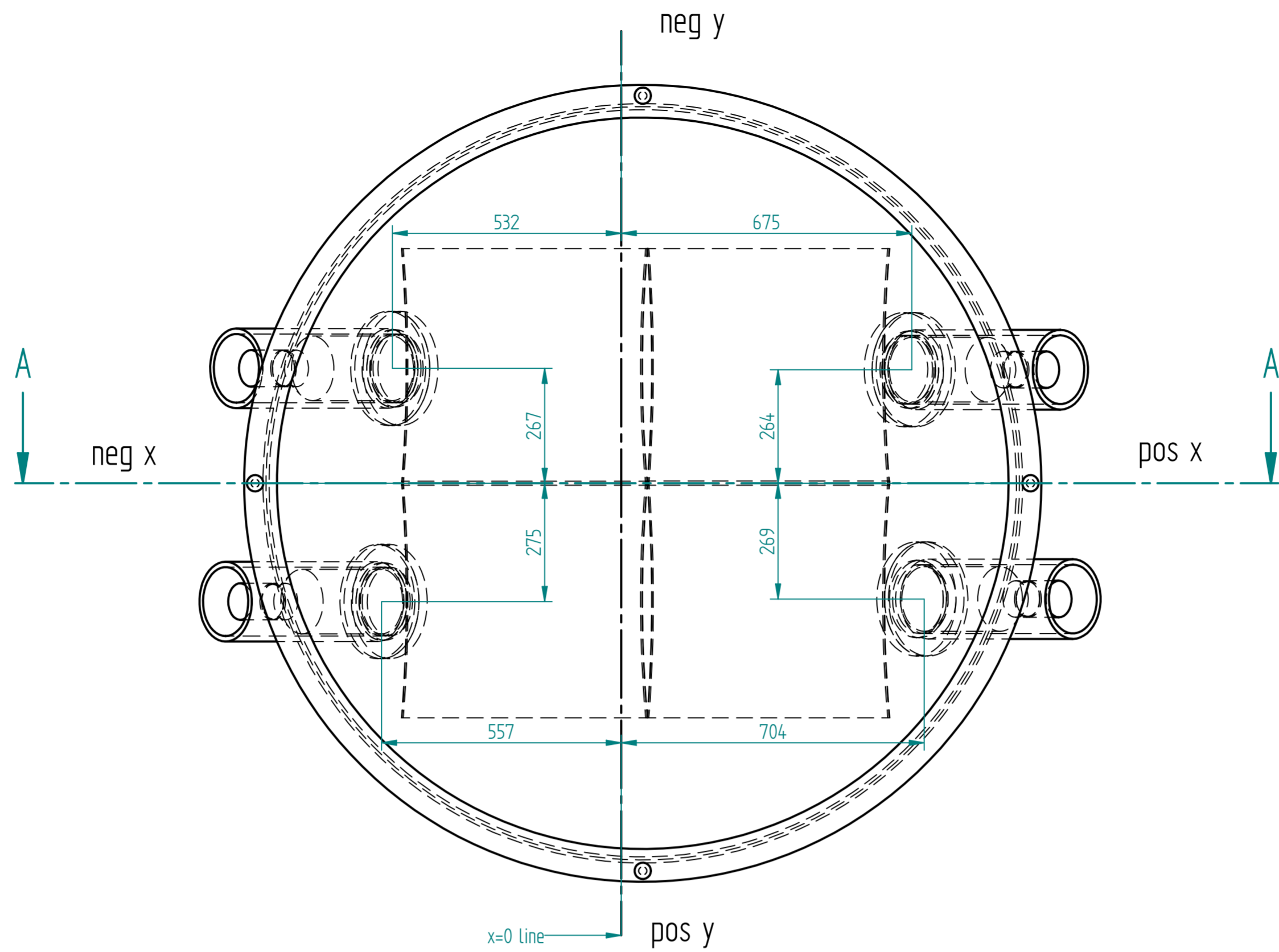


DETAIL D

Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.

University of Regina  
 Drawn by: Paul Selles  
 Supervised by: Garth Huber

Name: Heavy Gas Cherenkov Complete Assembly  
 Revision: C  
 Date: Aug 13/2009

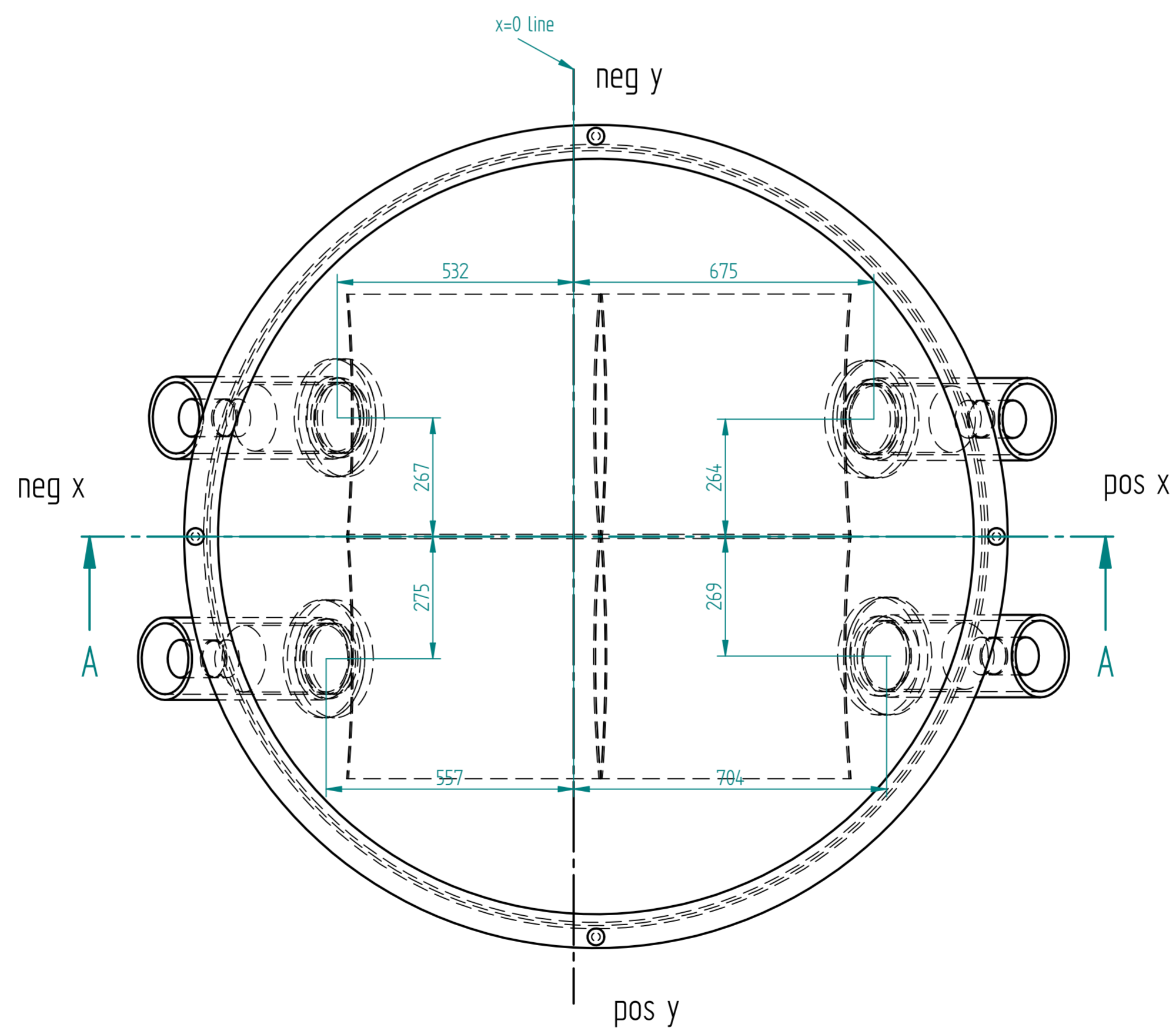
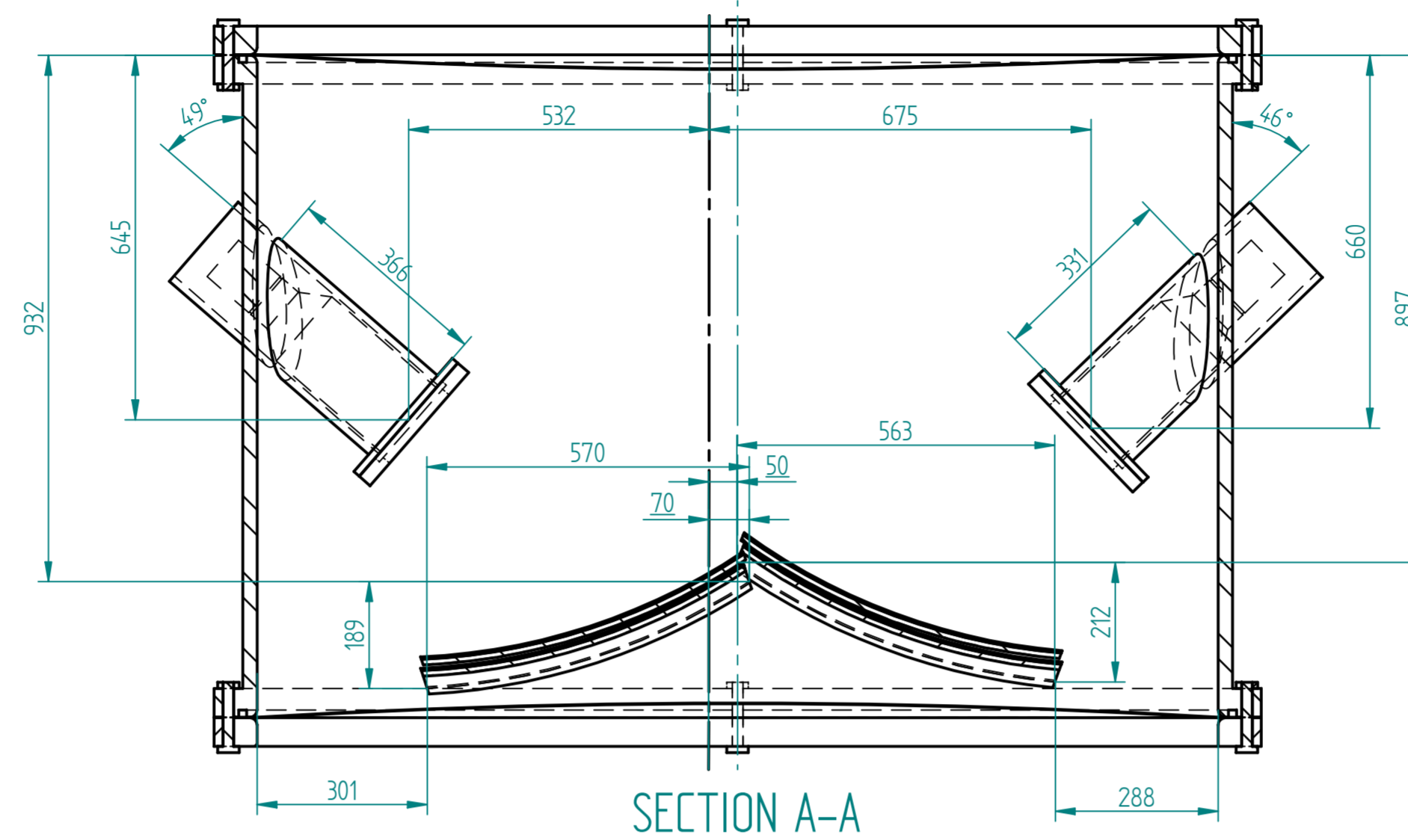


Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.

DIAGRAM IS IN TRANSPORT COORDINATES NOT ENGINEERING COORDINATES.

University of Regina  
 Drawn by: Paul Selles  
 Supervised by: Garth Huber

Name: Heavy Gas Cherenkov Detail Pos Y  
 Revision: A  
 Date: Aug 13/2009

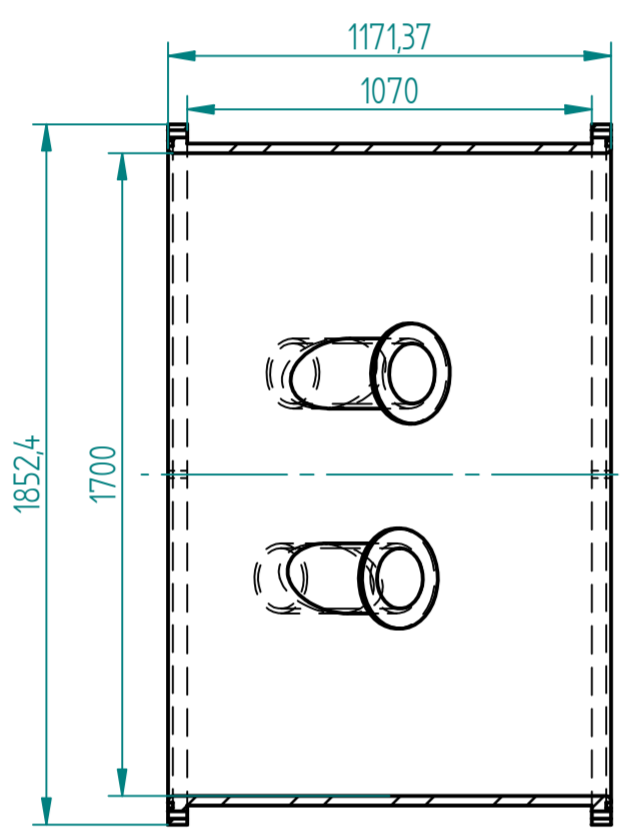


**Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.**

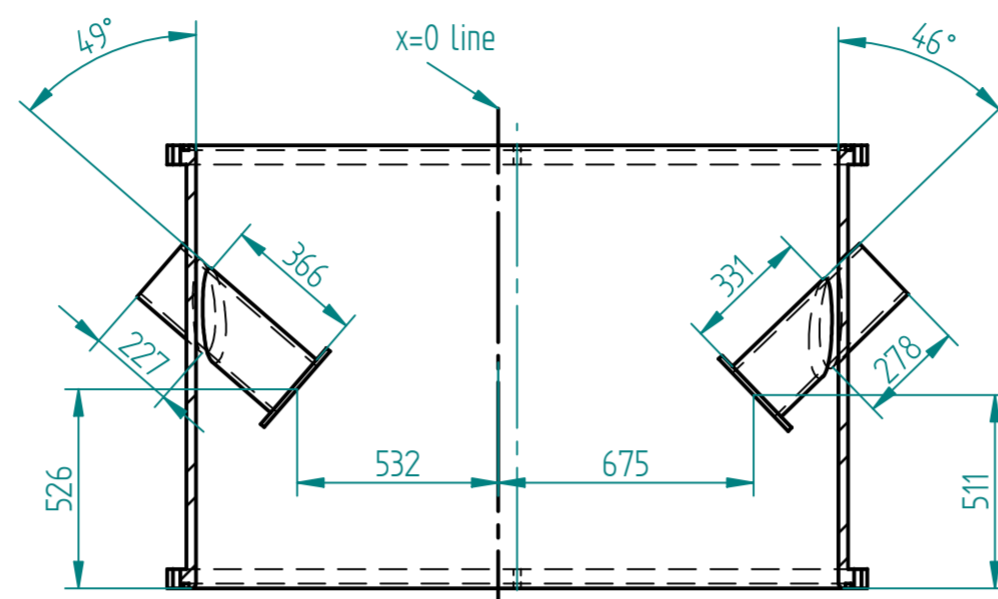
**DIAGRAM IS IN TRANSPORT COORDINATES NOT ENGINEERING COORDINATES.**

**University of Regina  
 Drawn by: Paul Selles  
 Supervised by: Garth Huber**

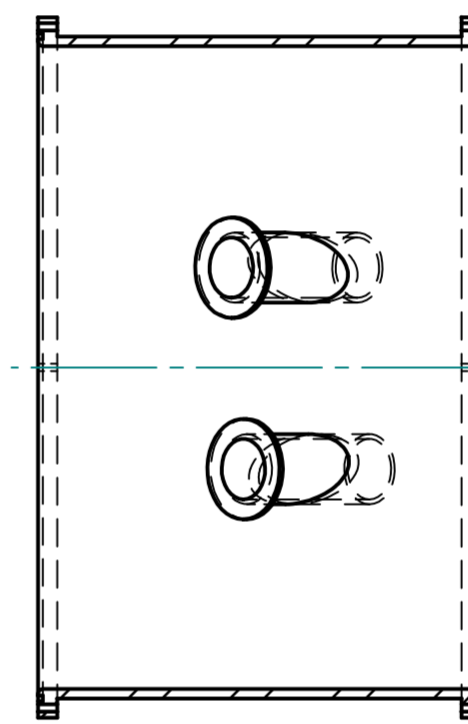
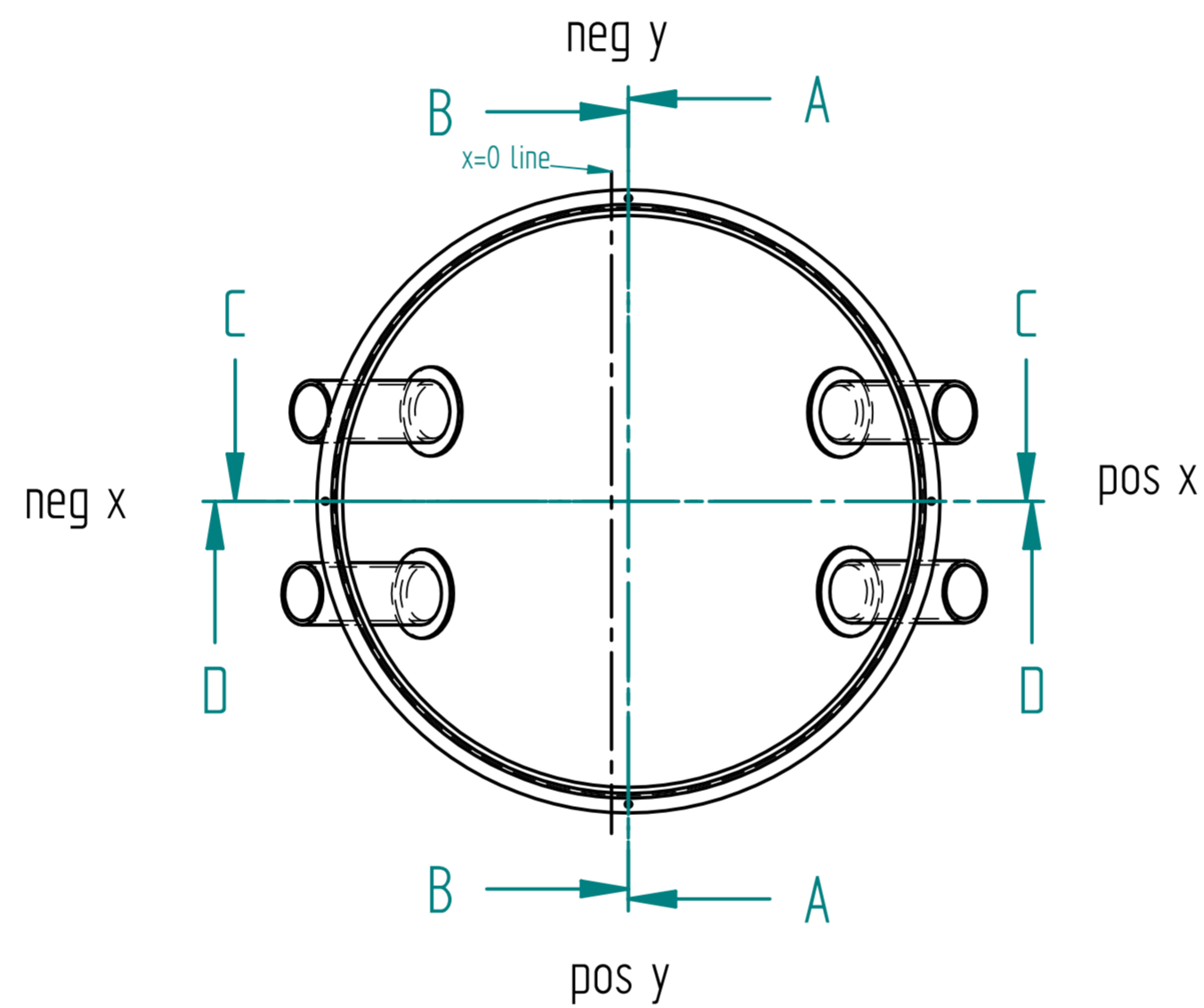
**Name: Heavy Gas Cherenkov Detail Neg Y  
 Revision: A  
 Date: Aug 13/2009**



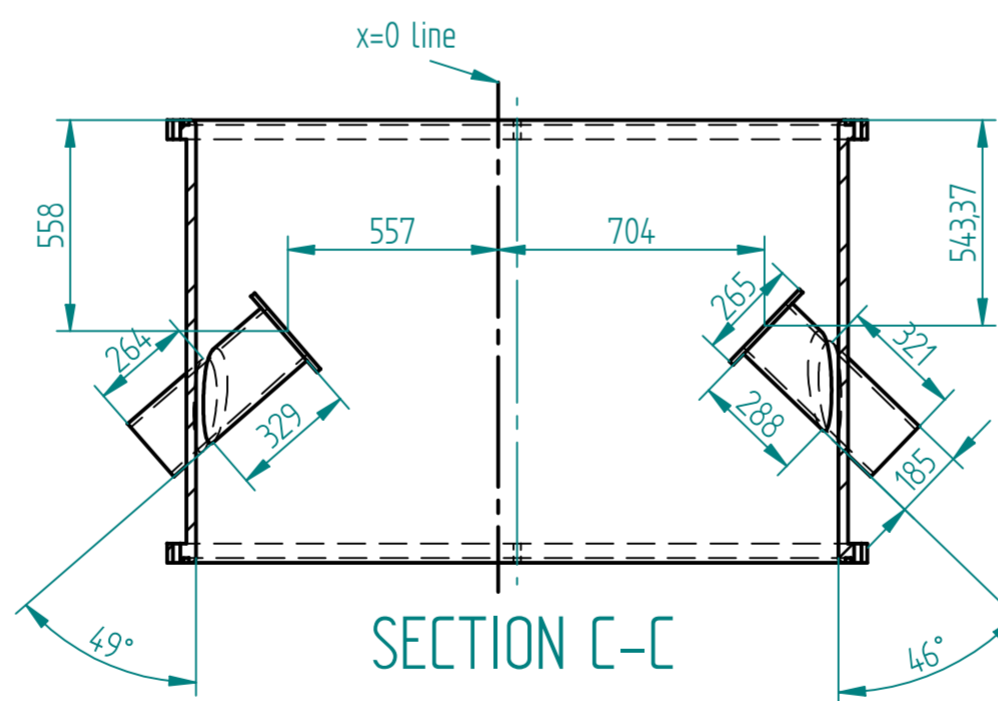
SECTION A-A



SECTION D-D



SECTION B-B



SECTION C-C

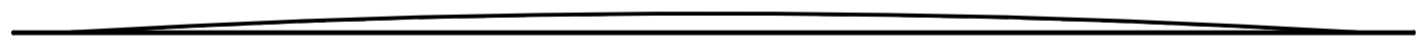
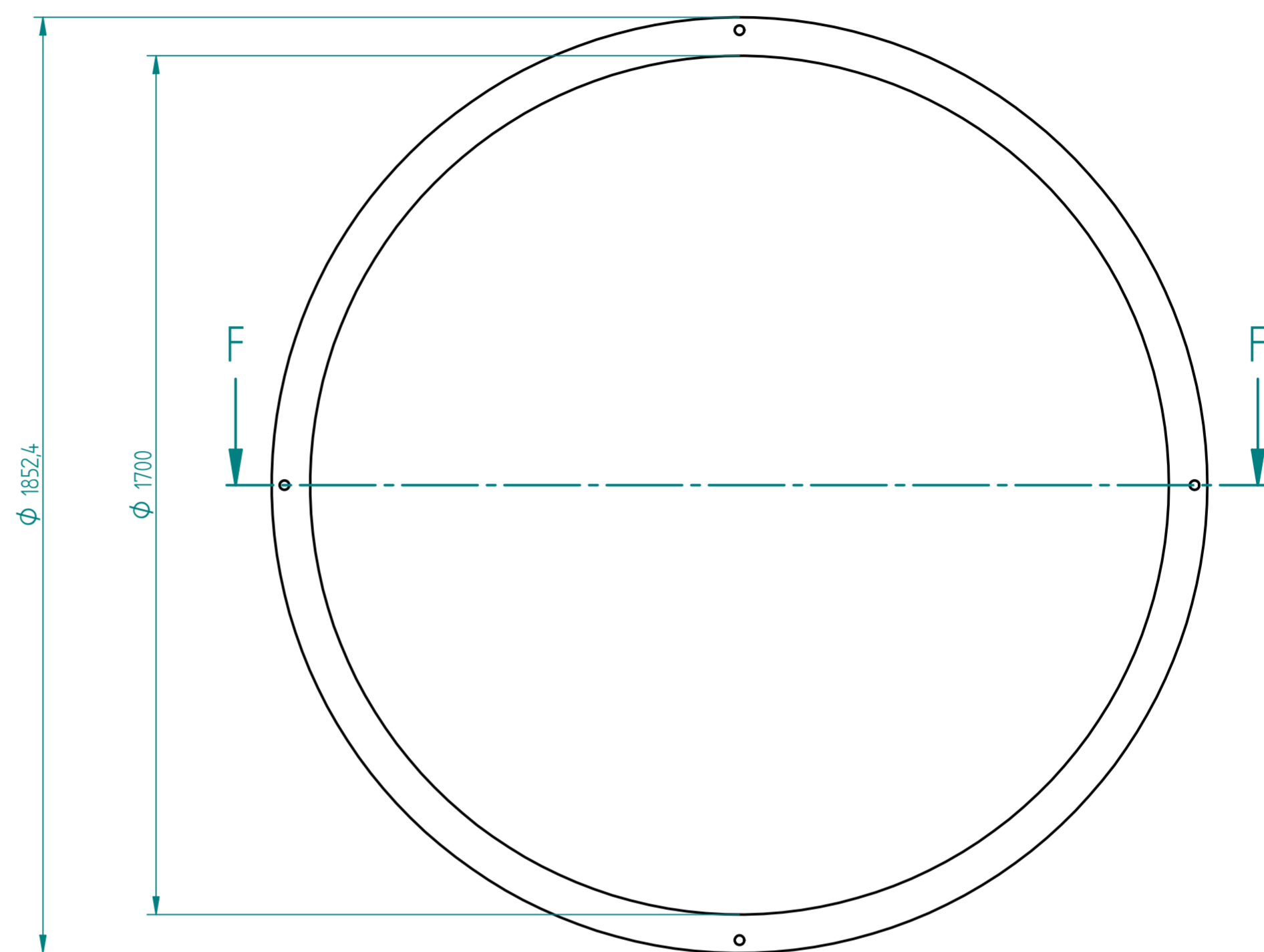
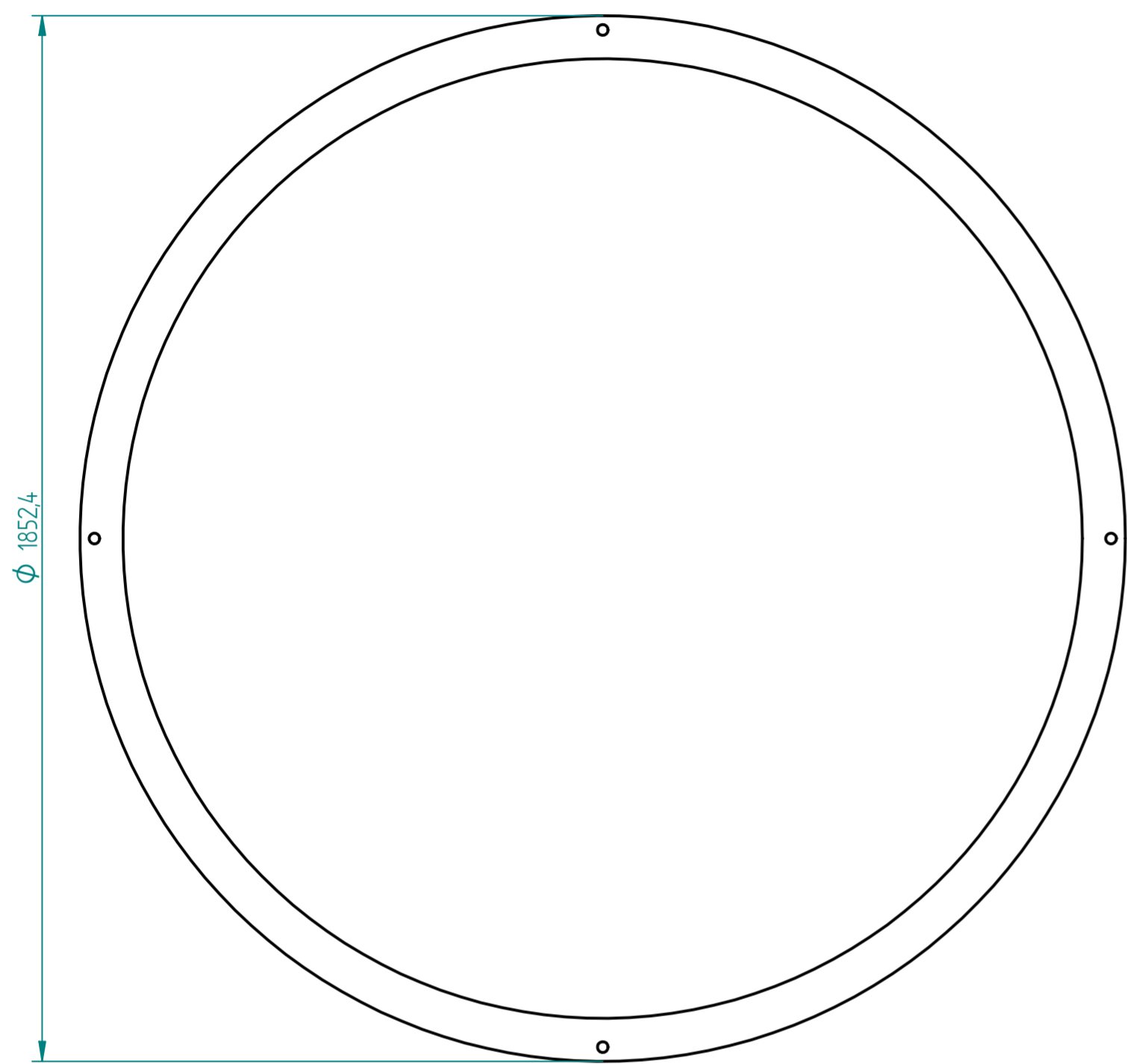
PMT and Mirror positions are based on geant4 R=115cm simulation with PMT spot size area minimization as of July 29/2009. These positions are not finalized.

Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.

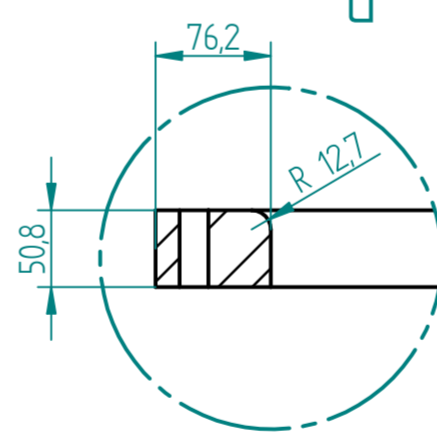
DIAGRAM IS IN TRANSPORT COORDINATES NOT ENGINEERING COORDINATES.

University of Regina  
 Drawn by: Paul Selles  
 Supervised by: Garth Huber

Name: Heavy Gas Cherenkov Vessel  
 Revision: B  
 Date: Aug 13/2009



SECTION F-F



DETAIL G

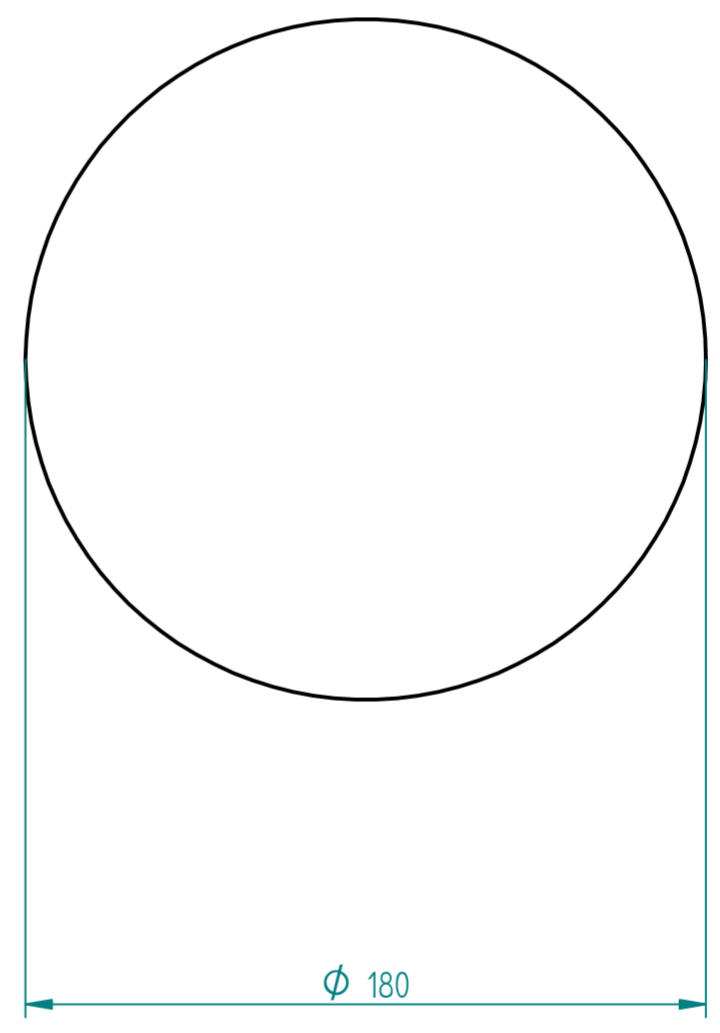
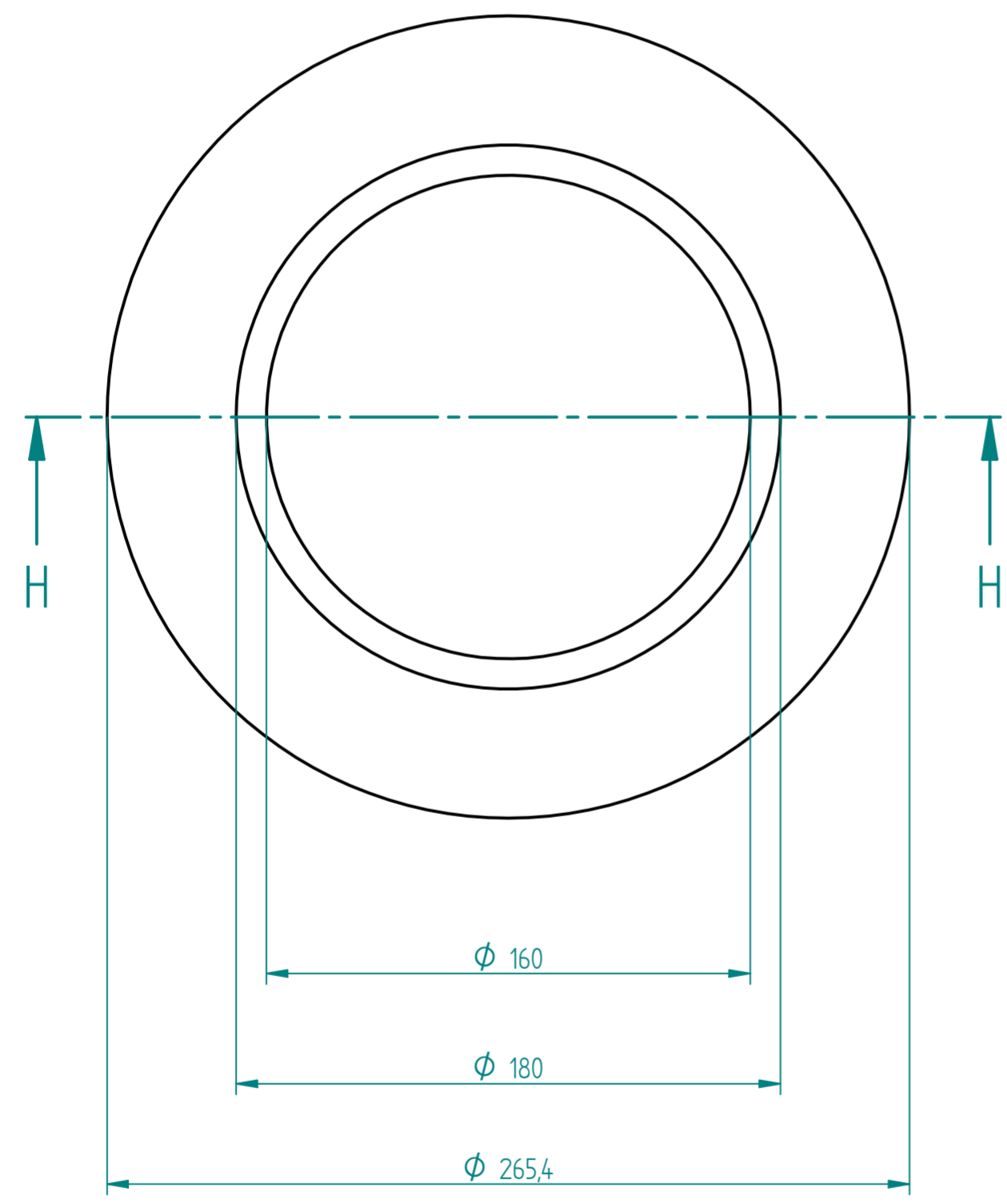
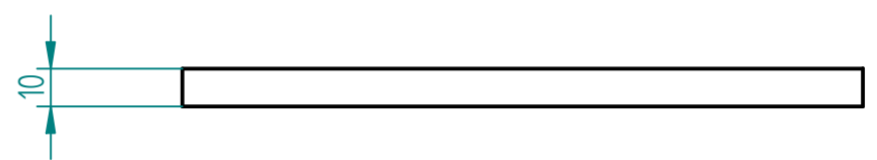
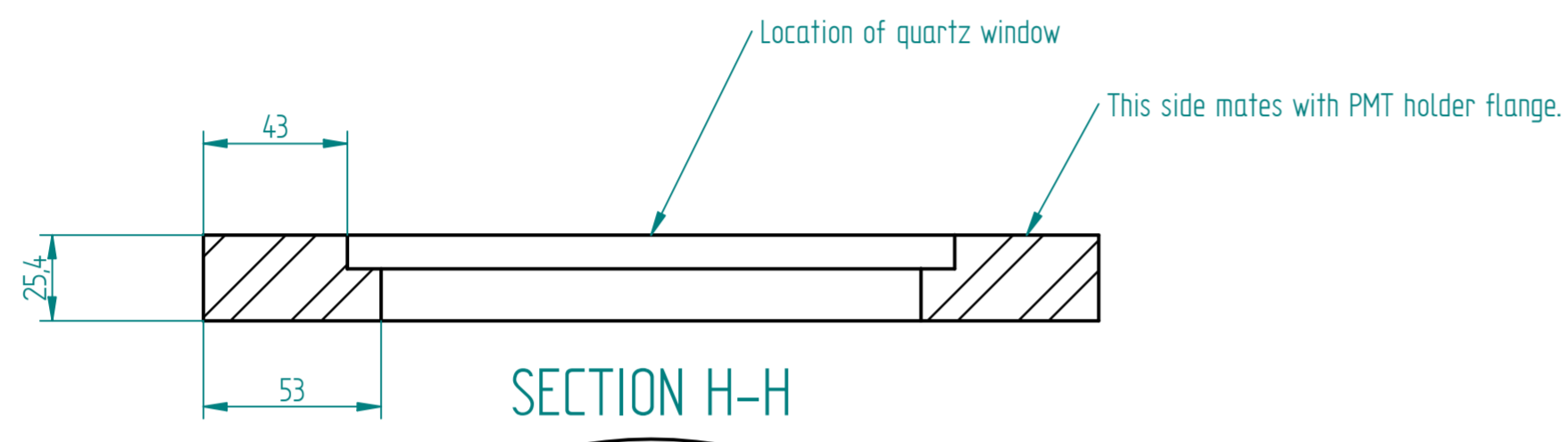
Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.

ACADEMIC COPY

University of Regina  
 Drawn by: Paul Selles  
 Supervised by: Garth Huber

Name: Heavy Gas Cherenkov Window and Window Clamp  
 Revision: B  
 Date: Aug 13/2009

Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.

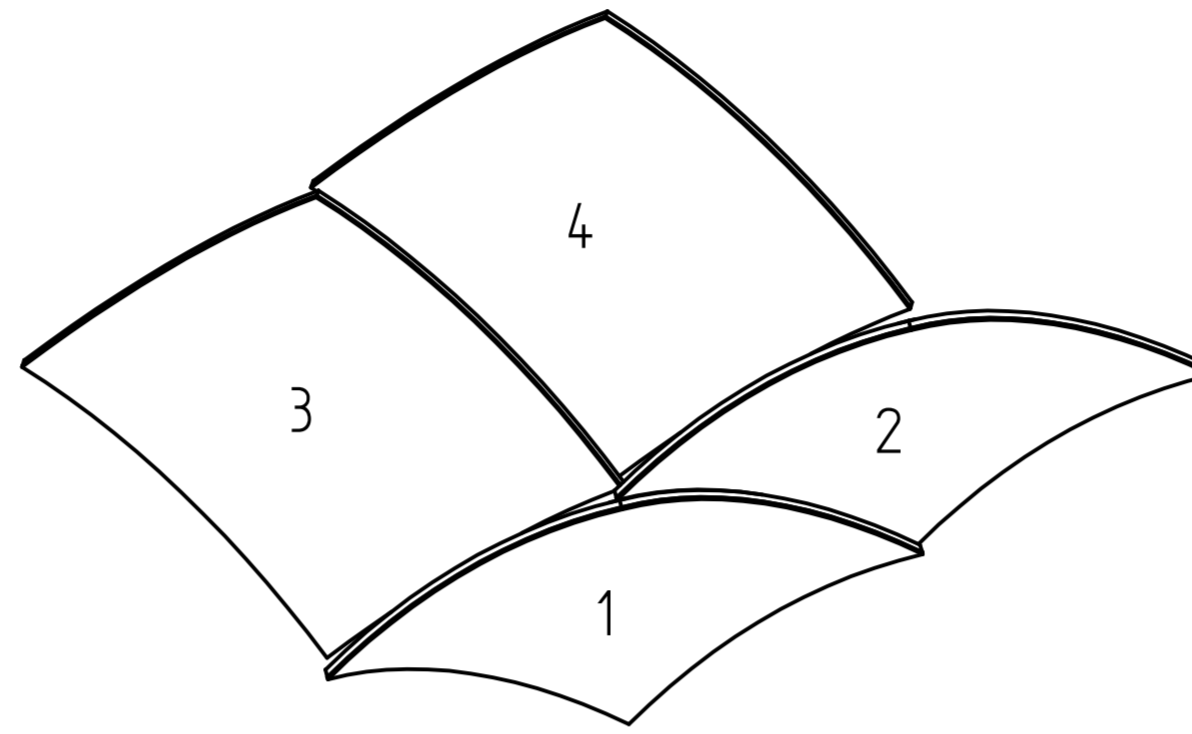


SOLID EDGE ACADEMIC COPY

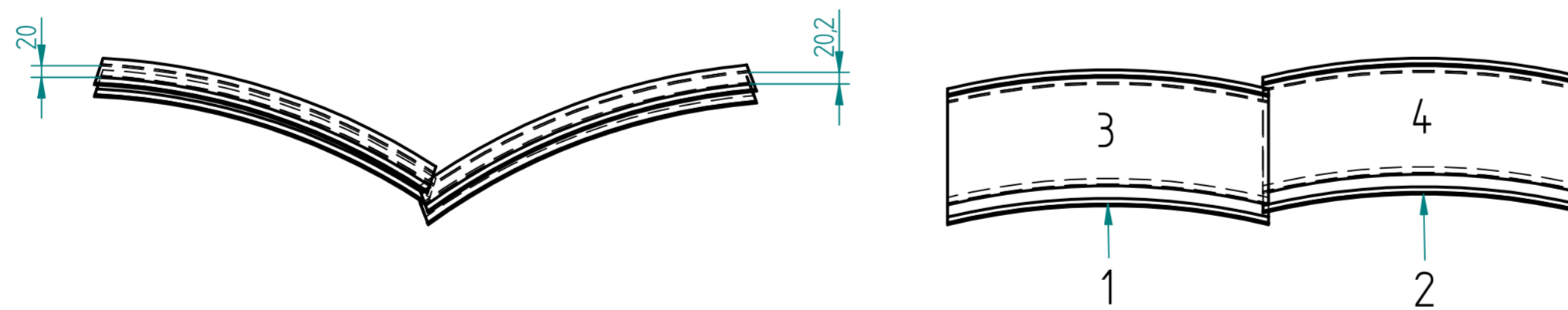
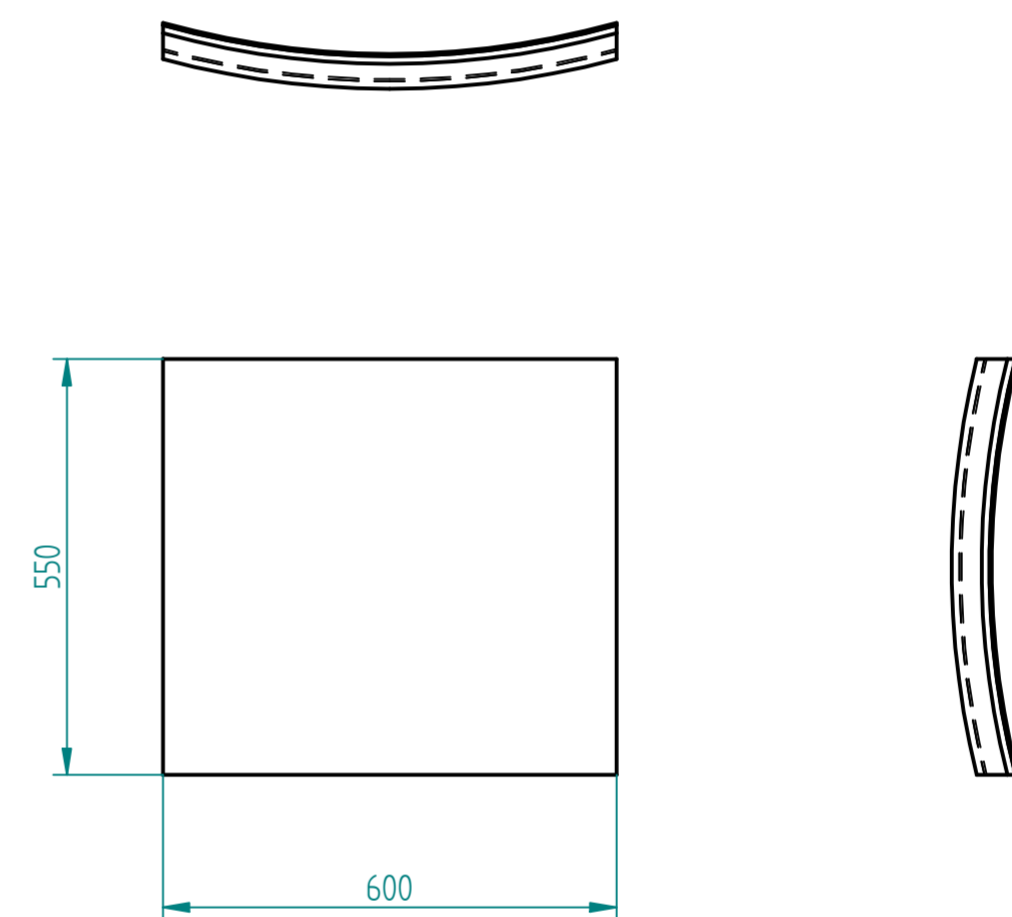
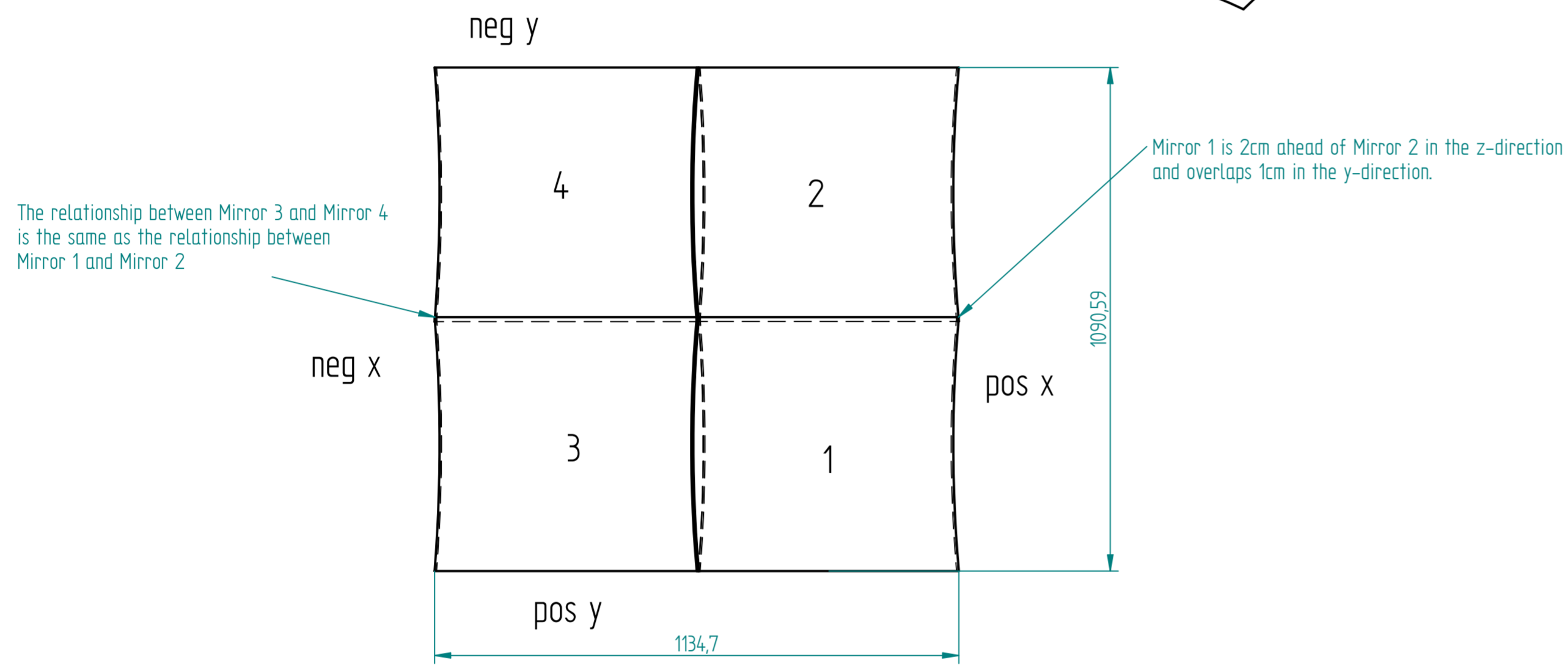
University of Regina	Name: Heavy Gas Cherenkov Quartz Window and Clamp
Drawn by: Paul Selles	Revision: B
Supervised by: Garth Huber	Date: Aug 13/2009

Mirrors are 3mm thick not including backing. The mirrors are spherical with a 1150mm radius.

Mirror ordering in z-direction from front to back: 1, 2, 3, 4. Mirror 3 is 3.4cm behind Mirror 1. Same relationship between Mirrors 4 and 2.



**Note: This is a primary design and is subject to change. This drawing is meant only to show necessary dimensions and proportionality required and should not be considered an engineering drawing.**



SOLIDWORKS COPY

DIAGRAM IS IN TRANSPORT COORDINATES NOT ENGINEERING COORDINATES.

University of Regina  
 Drawn by: Paul Selles  
 Supervised by: Garth Huber

Name: Heavy Gas Cherenkov Mirror Assembly  
 Revision: C  
 Date: Aug 13/2009