



Department of Aerospace Engineering

Indian Institute of Technology Madras
Chennai – 600 036, India

K. BHASKAR

Head of the Department

Ref: No. ASE/SRCH/ Supersonic combustor/2013/

DATE : 26.11. 2013

DUE DATE : 17.12.2013

Dear Sir,

1. Quotations are invited in duplicate for the various items shown below/overleaf/**enclosed list**.
2. The quotations duly sealed and super scribed on the envelope with reference no. and due date, should be addressed to the undersigned so as to reach him or before the due date stipulated above. Fax and Email quotation are not acceptable.
3. Quotations should be valid for 60 days from the due date and period of delivery required , warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required from the date of commissioning.
4. Imported supplies should be quoted **for CIF Madras**.
5. Local firms to quote for free delivery to this Institute. If quoted for Ex-Godown delivery charges be indicated separately.
6. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses. Compliancy certificate is to be provided indicating conformity to the technical specifications
7. Sales Tax/General Taxes/ED if applicable and such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. If this is not indicated no such claim will be admitted at any stage. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession is given. Sales Tax Certificate will be issued at the time of final settlement of the bill.
8. Goods should be supplied carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
11. In case of LC. Payment, 90% of the payment will be made after completion of the supply. The balance 10% of the payment will be made after satisfactory installation of the equipment.
12. IIT Madras is exempt from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand. IIT Madras will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
13. **Acceptance and Rejection:-** I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully

HEAD OF THE DEPARTMENT

Items required: Combustor and Settling chamber as per the specifications drawings enclosed.

Quantity Required _ 1 No.



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Price should include Materials, Manufacturing, Assembly, Testing, and transporting the same to IIT Madras.

EMD of Rs. 25,000/- should be paid. EMD should be in the form of DD in favor of “The Registrar, Indian Institute of Technology Madras” and payable at Chennai. The tender without EMD would be considered as UNRESPONSIVE and REJECTED.

Scope of work for SUPERSONIC COMBUSTOR FACILITY:

This tender covers two combustor parts and a settling chamber.

1. Combustor specification

- Combustor includes two parts named divergent1 and iso&const1(CAD files are in the same name)
- Material SS 310
- Engineering Design Document and CAD model are attached

2. Settling chamber specification

- Material SS 310.
- It includes a Transition Duct welded with a flange, SS tube welded with flanges either side, and a separate flange. They have to be bolted(Assembled) with same schedule SS 310 bolts
- Schematic sketch is attached.
- Flanges has to be welded as per the schematic sketches. the following materials are needed for settling chamber.
 1. Transition duct (Drawing is attached)
 2. SS 310 Stainless Steel tube of Nominal Diameter 18 inches and schedule 80 (OD = 18" wall thickness = 0.937") 1 Meter length 1-nos
 3. SS 310 Stainless Steel Flange (Slip-On type) of Nominal diameter 18 inches and schedule 80 4-nos

The drawings are uploaded in the institute website: <http://tenders.iitm.ac.in/>

For any technical clarification please contact

Ariff Magdoo Email : ariffatmail@gmail.com

-or-

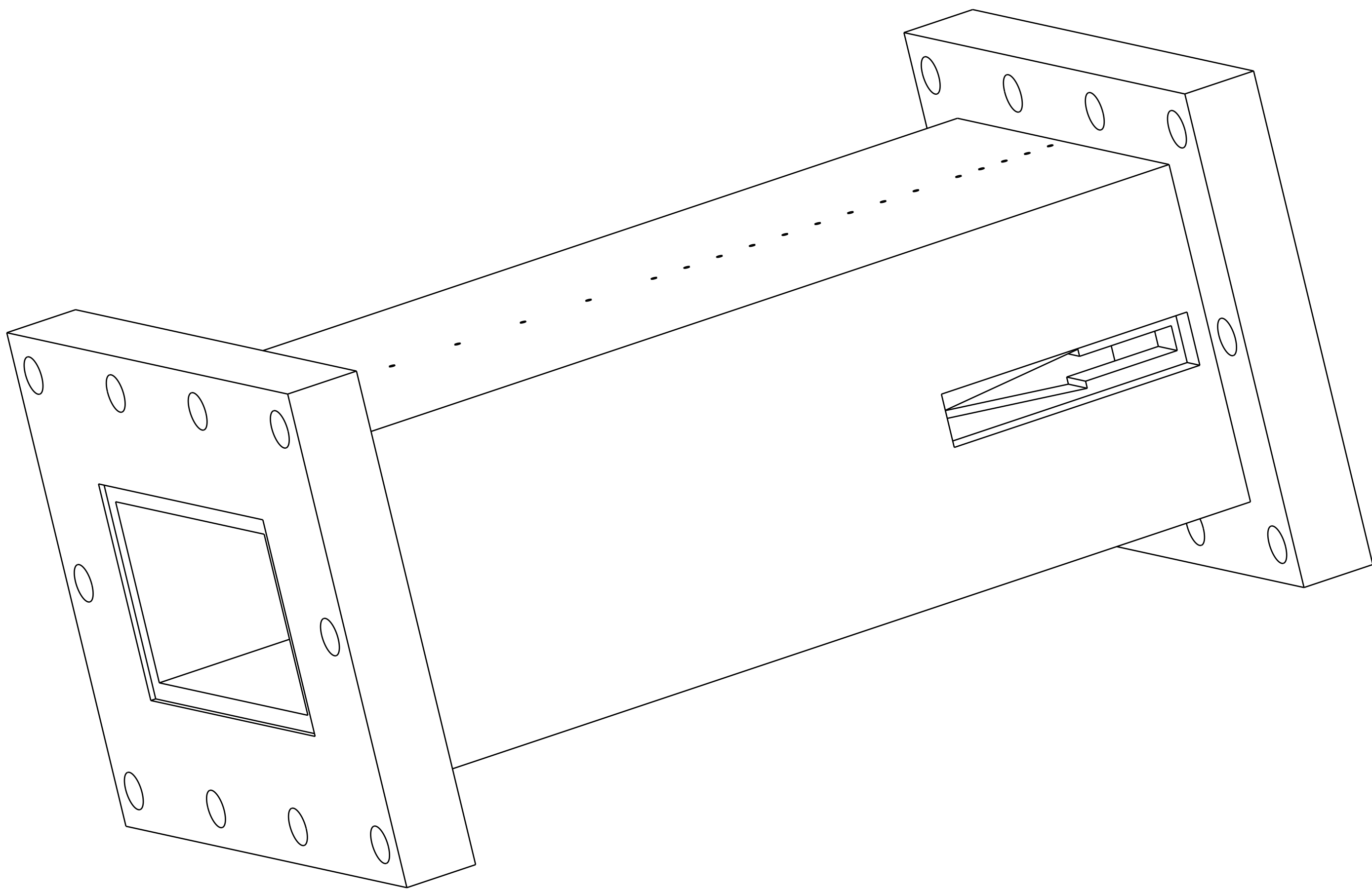
P. John George . phone : 044 22575026

Email : nccrdengr@pallava.iitm.ac.in

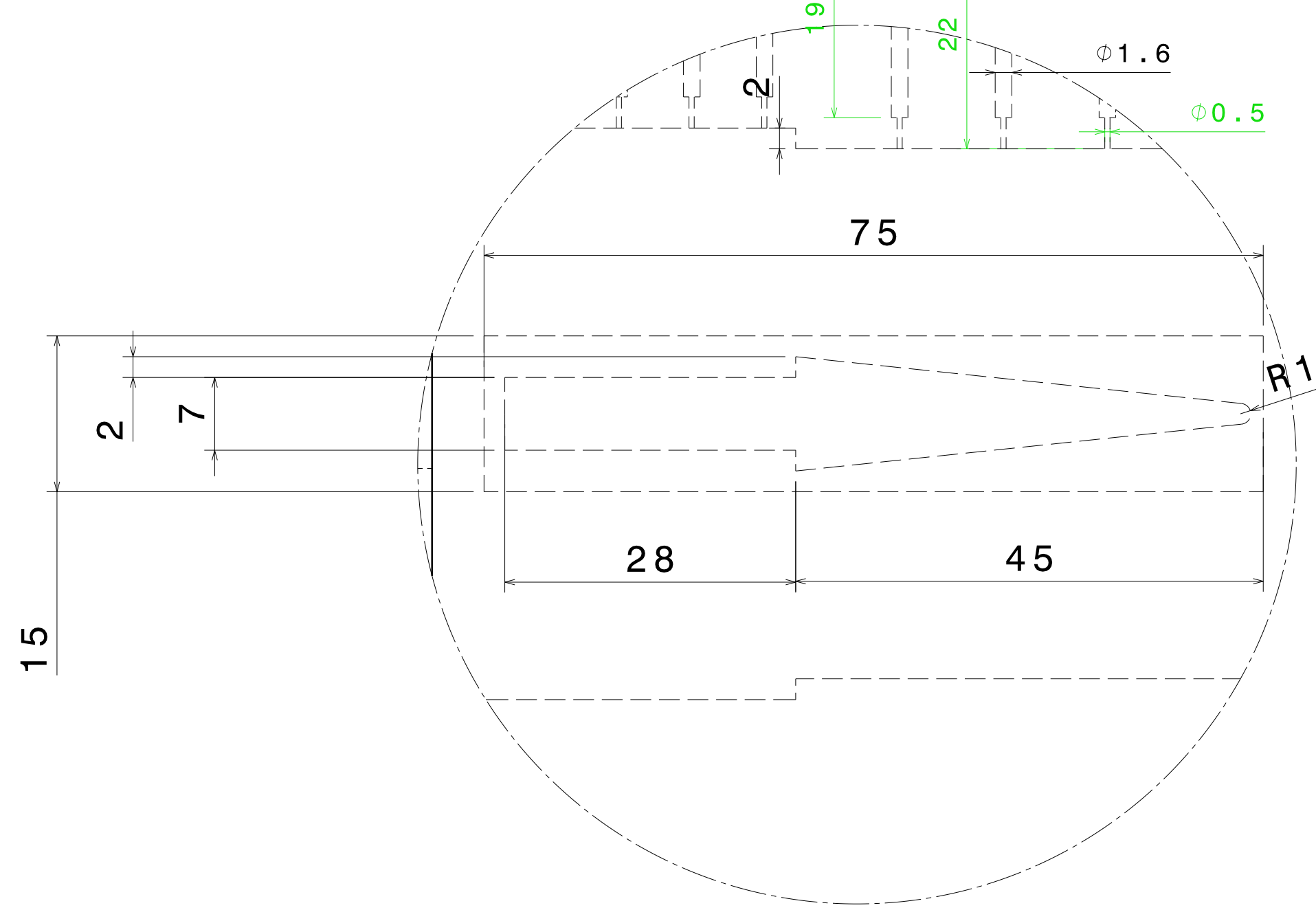
Note : Following link has the CAD files and Schematic diagram

<https://drive.google.com/folderview?id=0BylipQFa61ZFX1NQaEhDYlhxems&usp=sharing>

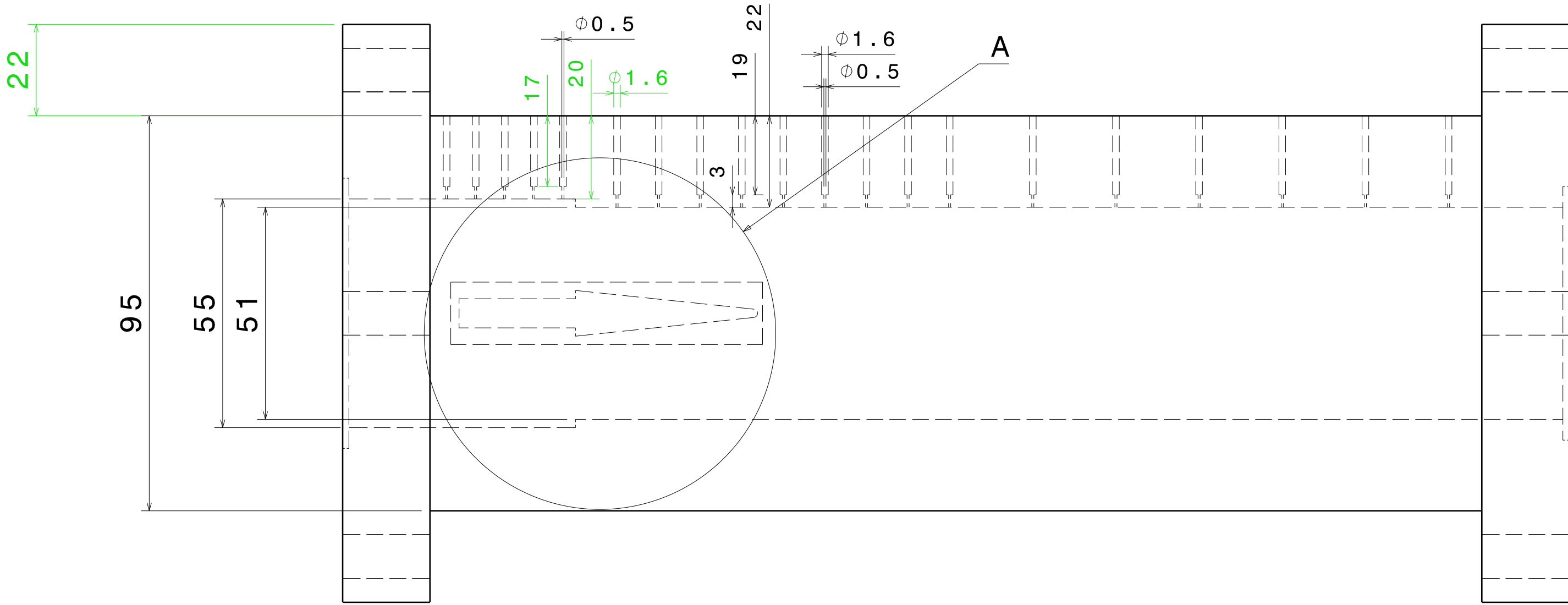
Unspecified tolerance can be taken from 0 mm to +0.1 mm



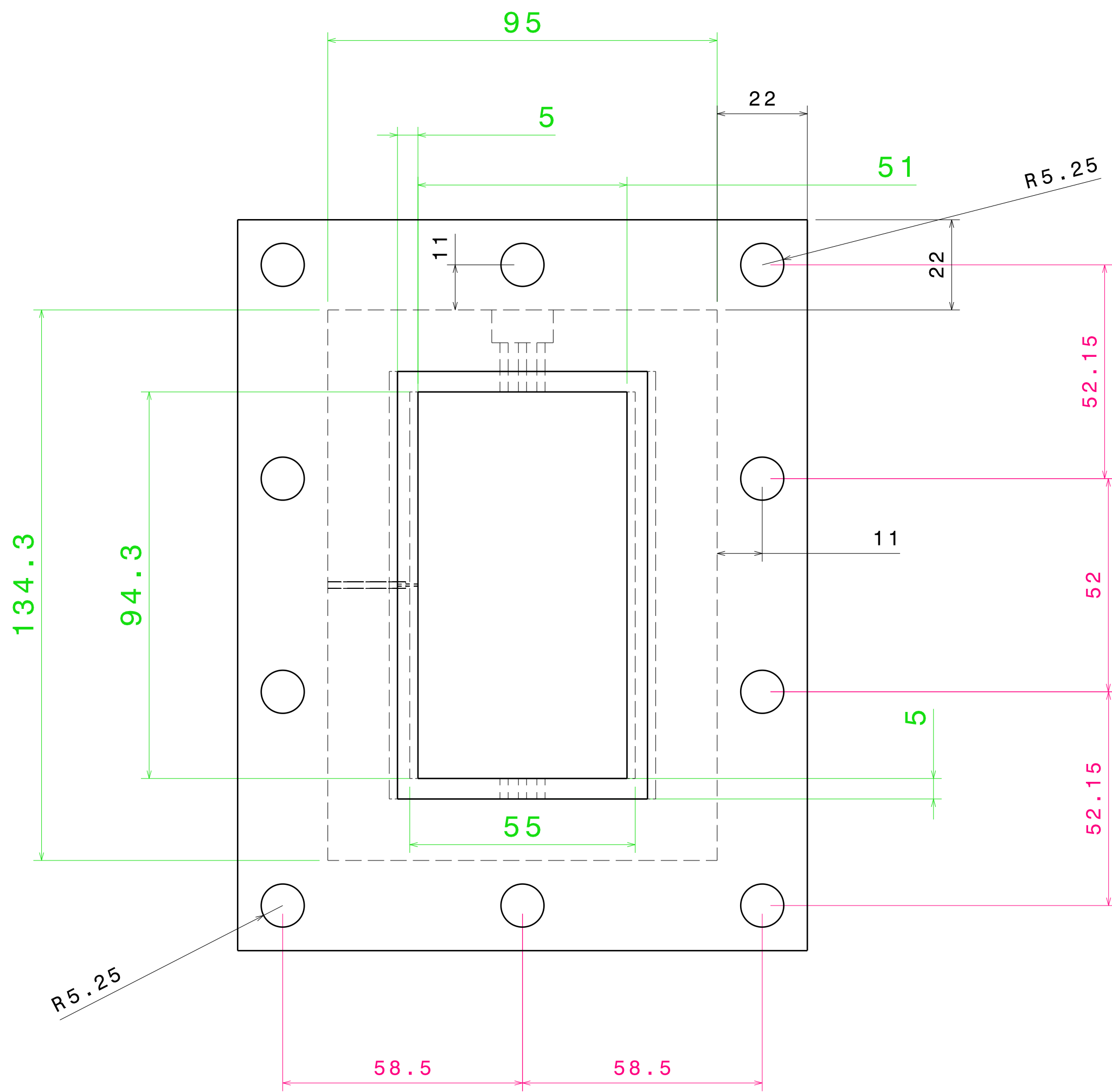
Isometric view
Scale: 1:1



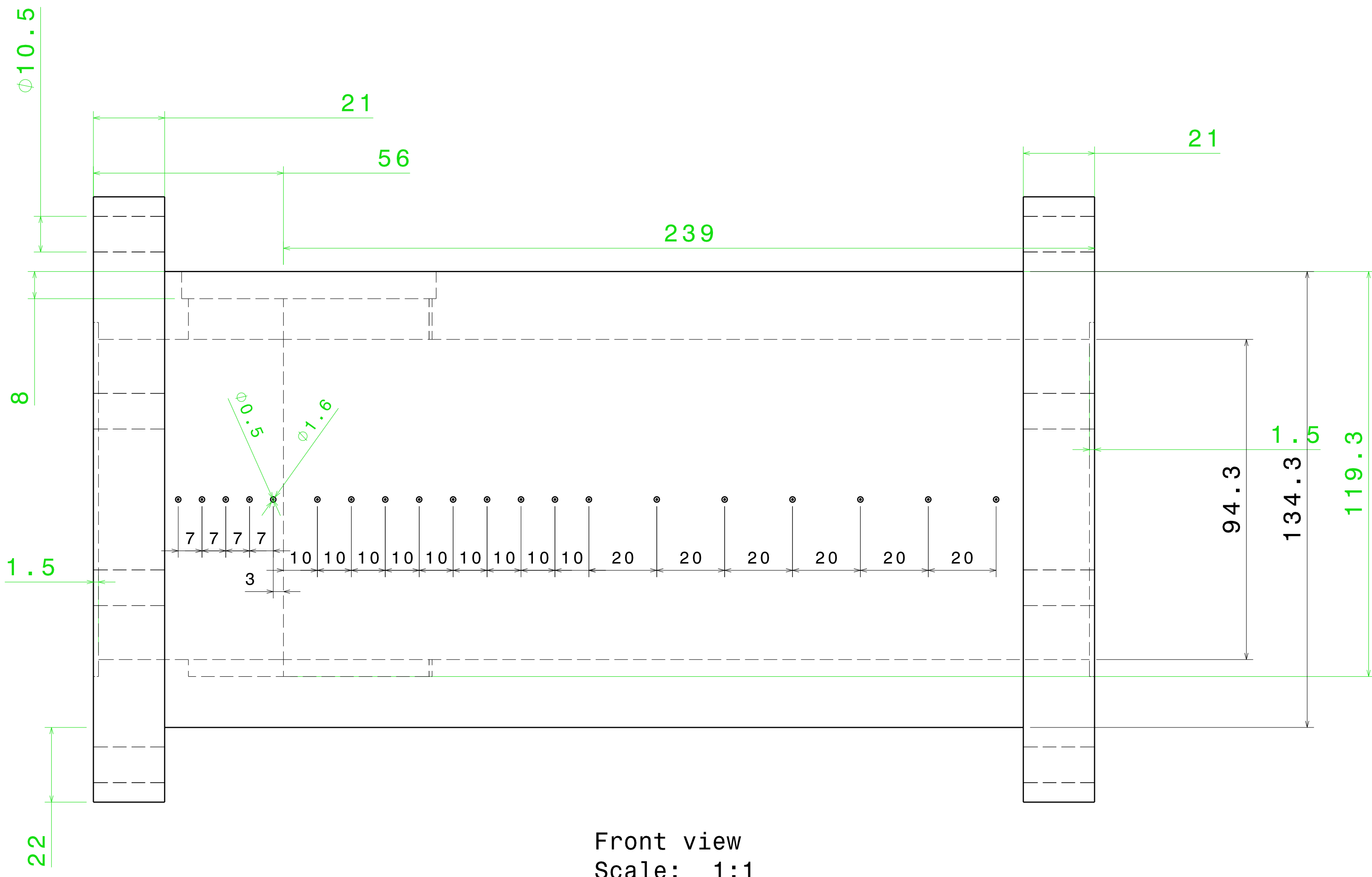
Detail A
Scale: 2:1



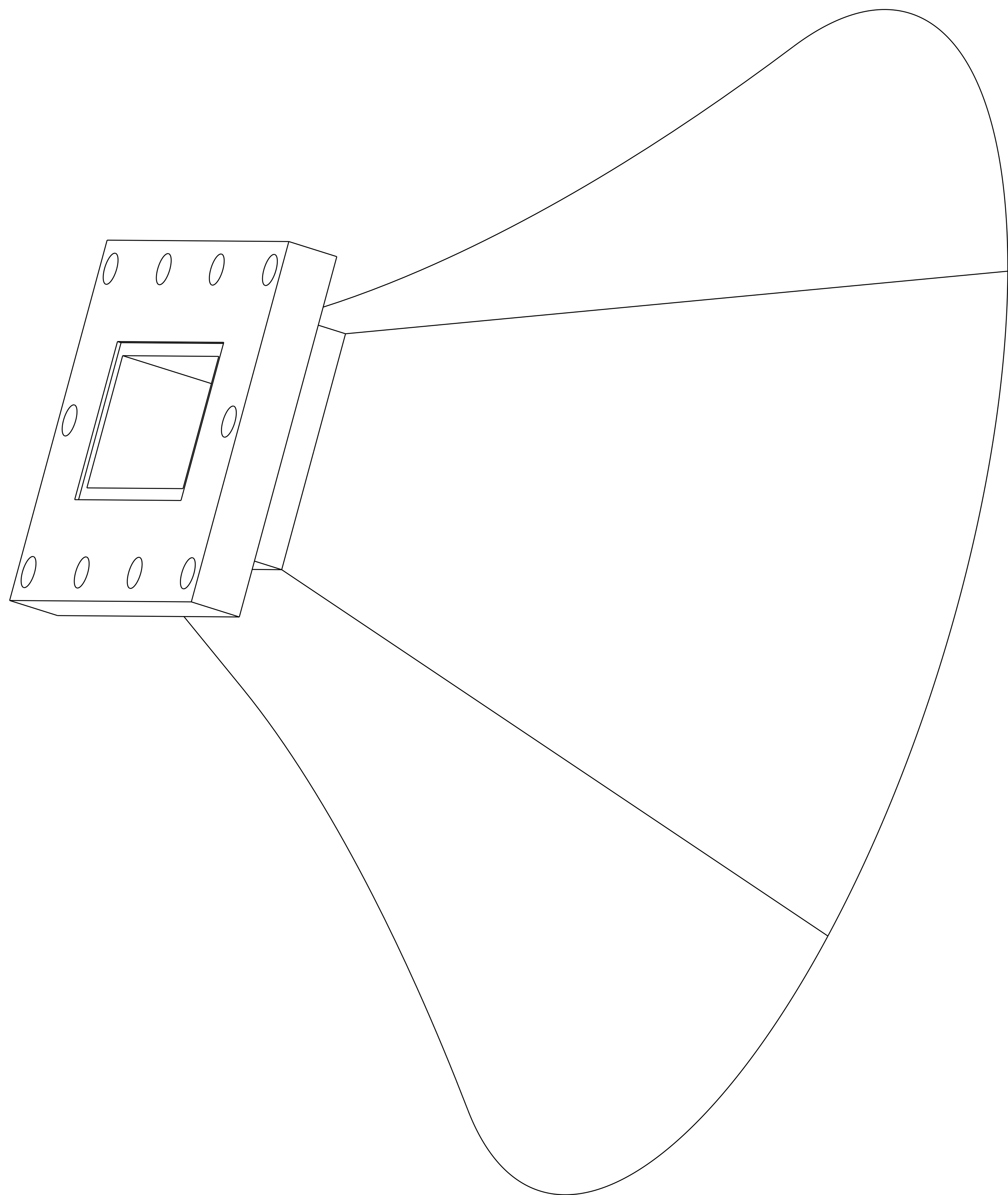
Bottom view
Scale: 1:1



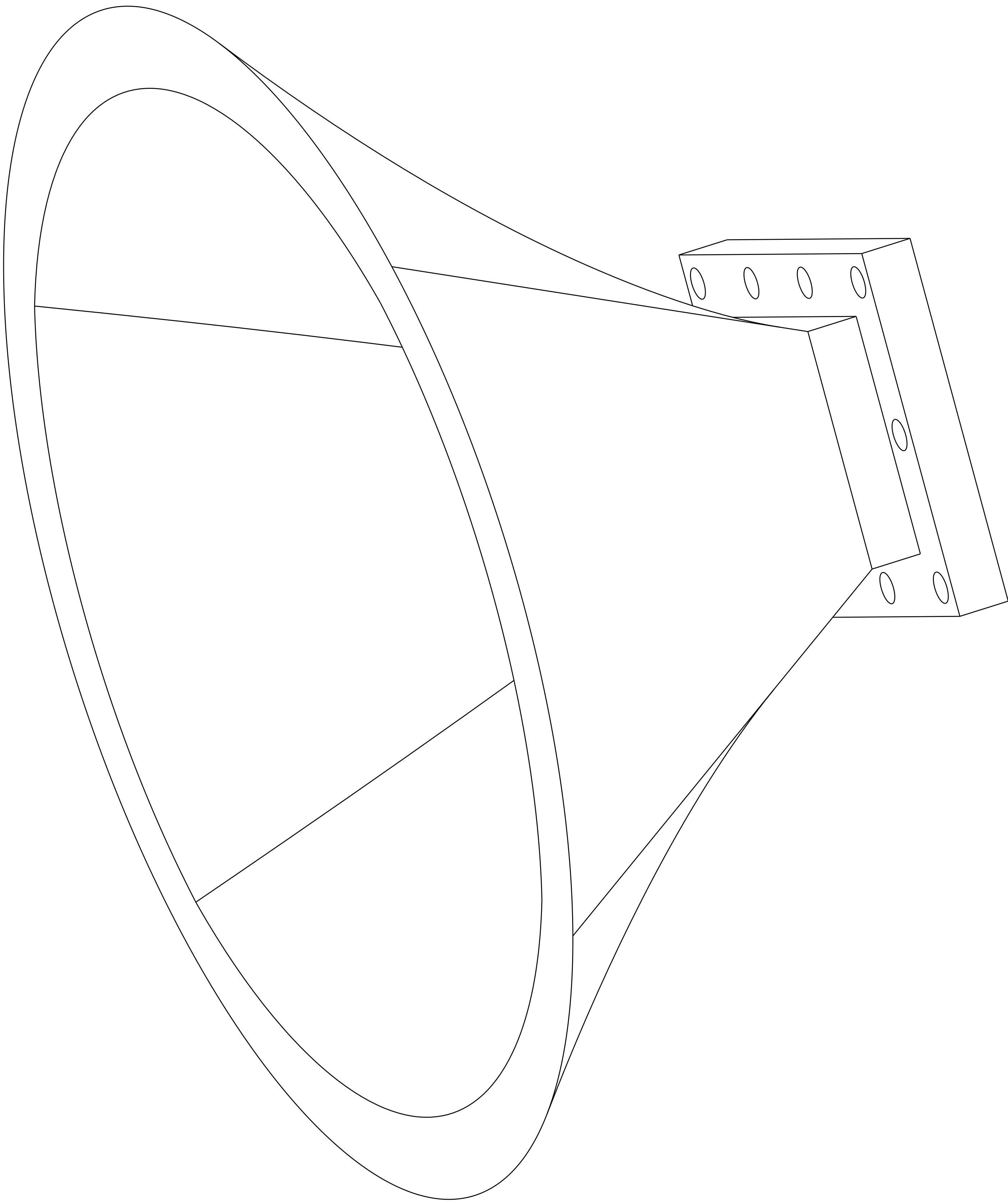
Right view
Scale: 1:1



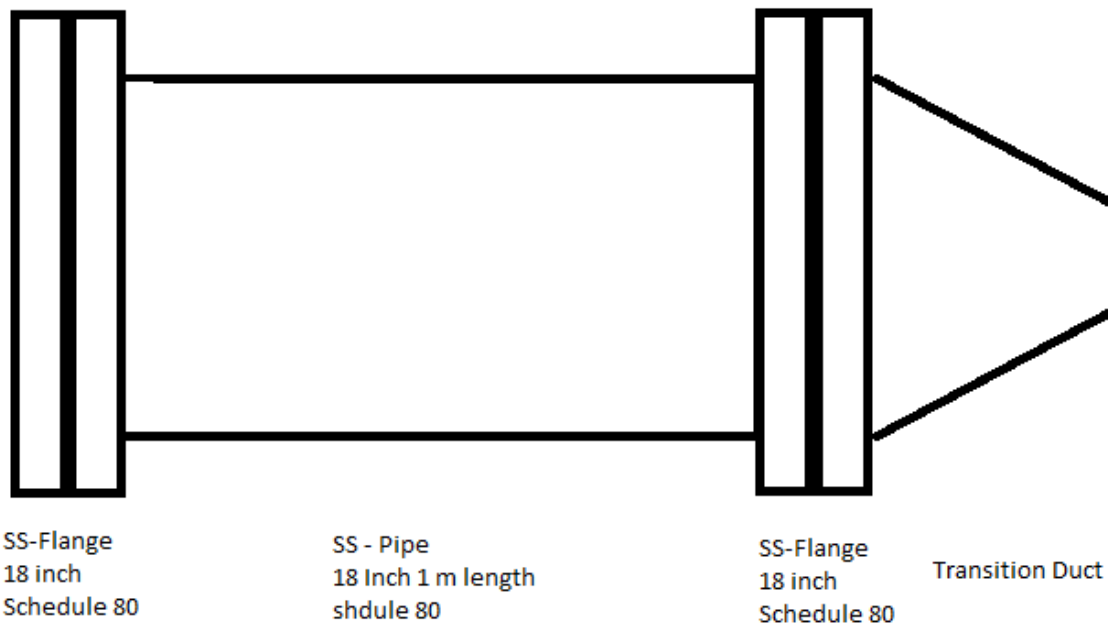
Front view
Scale: 1:1



Isometric view
Scale: 1:1



Isometric view
Scale: 1:1



Settling chamber Schematic sketch