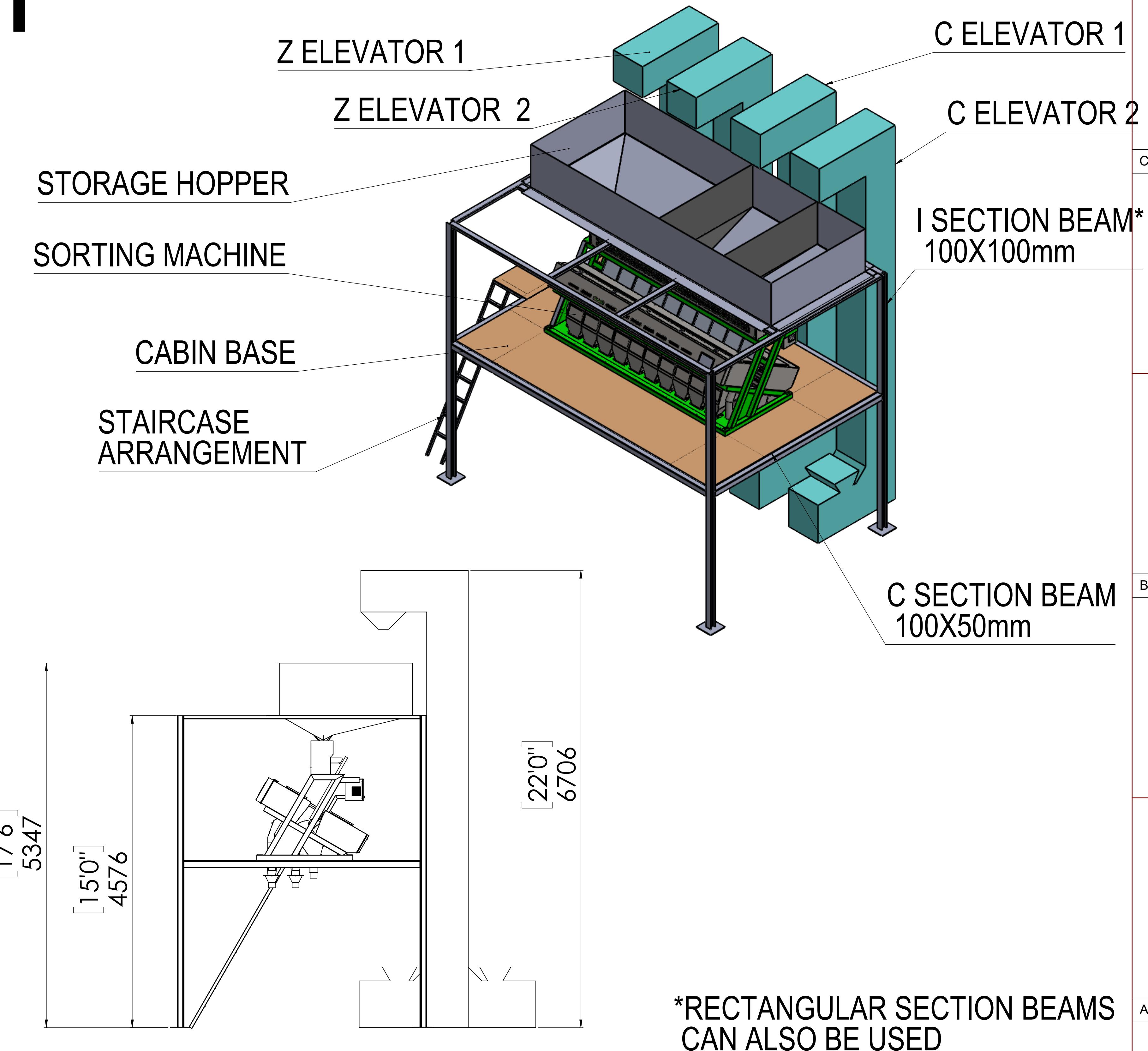
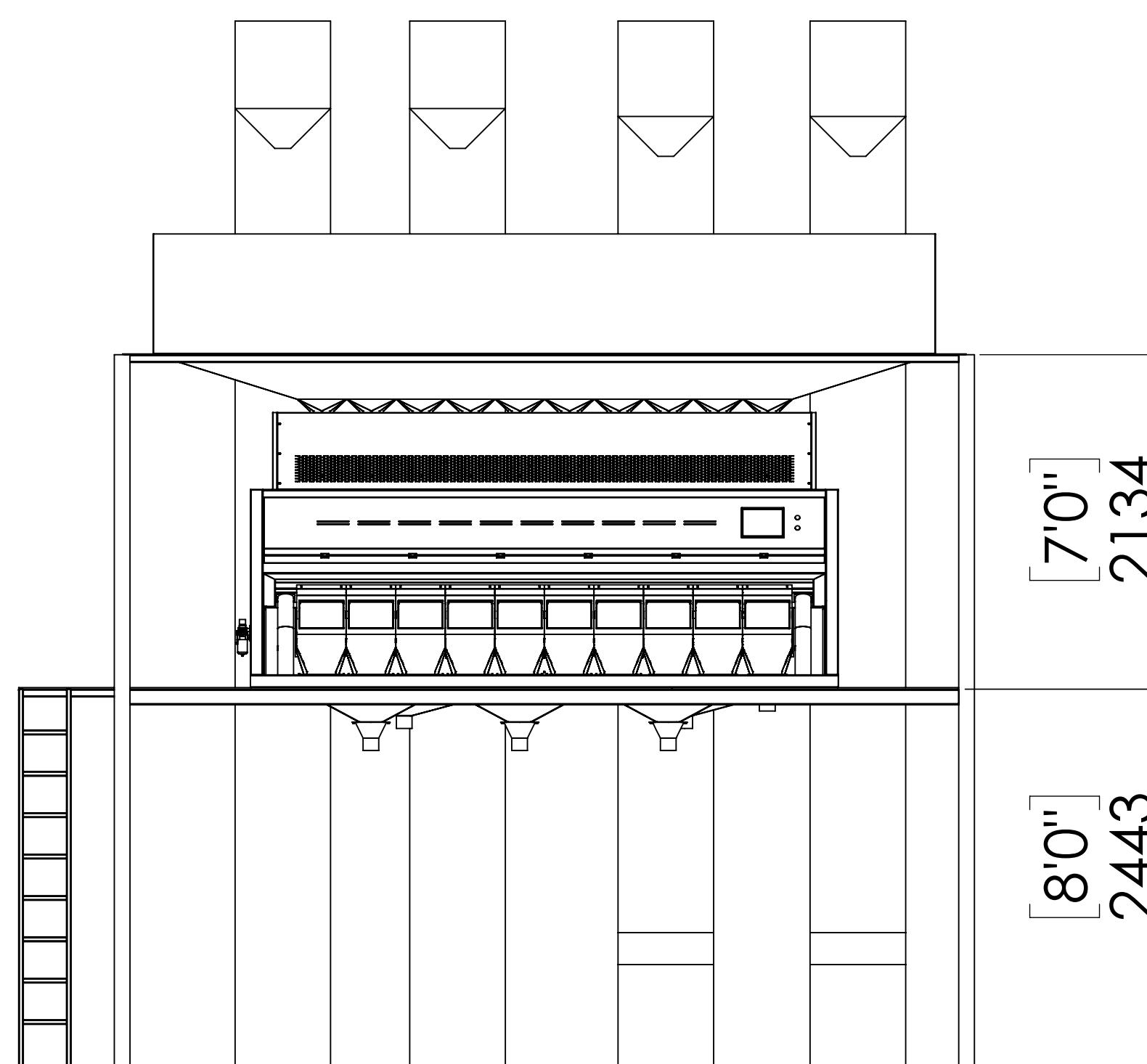
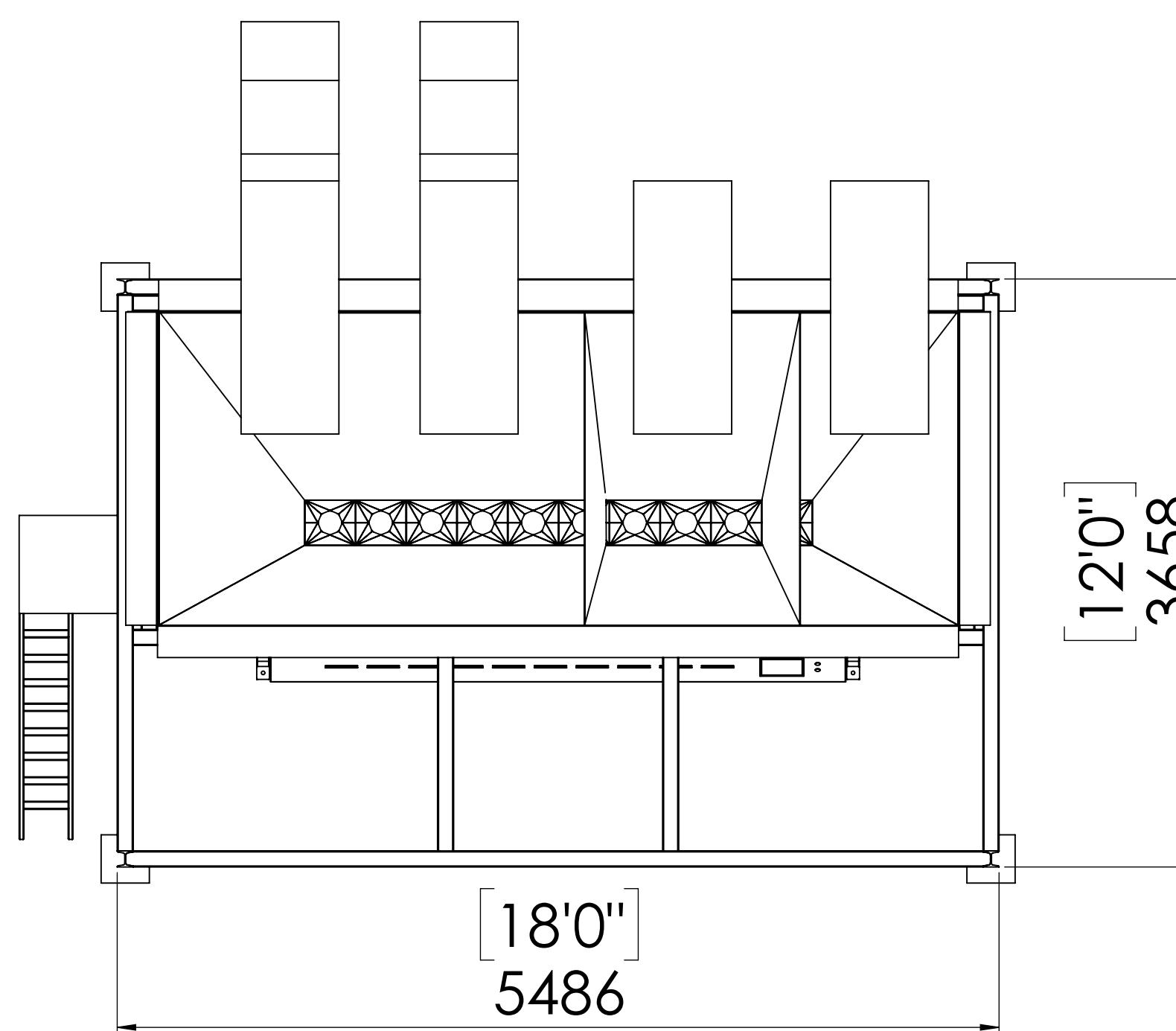


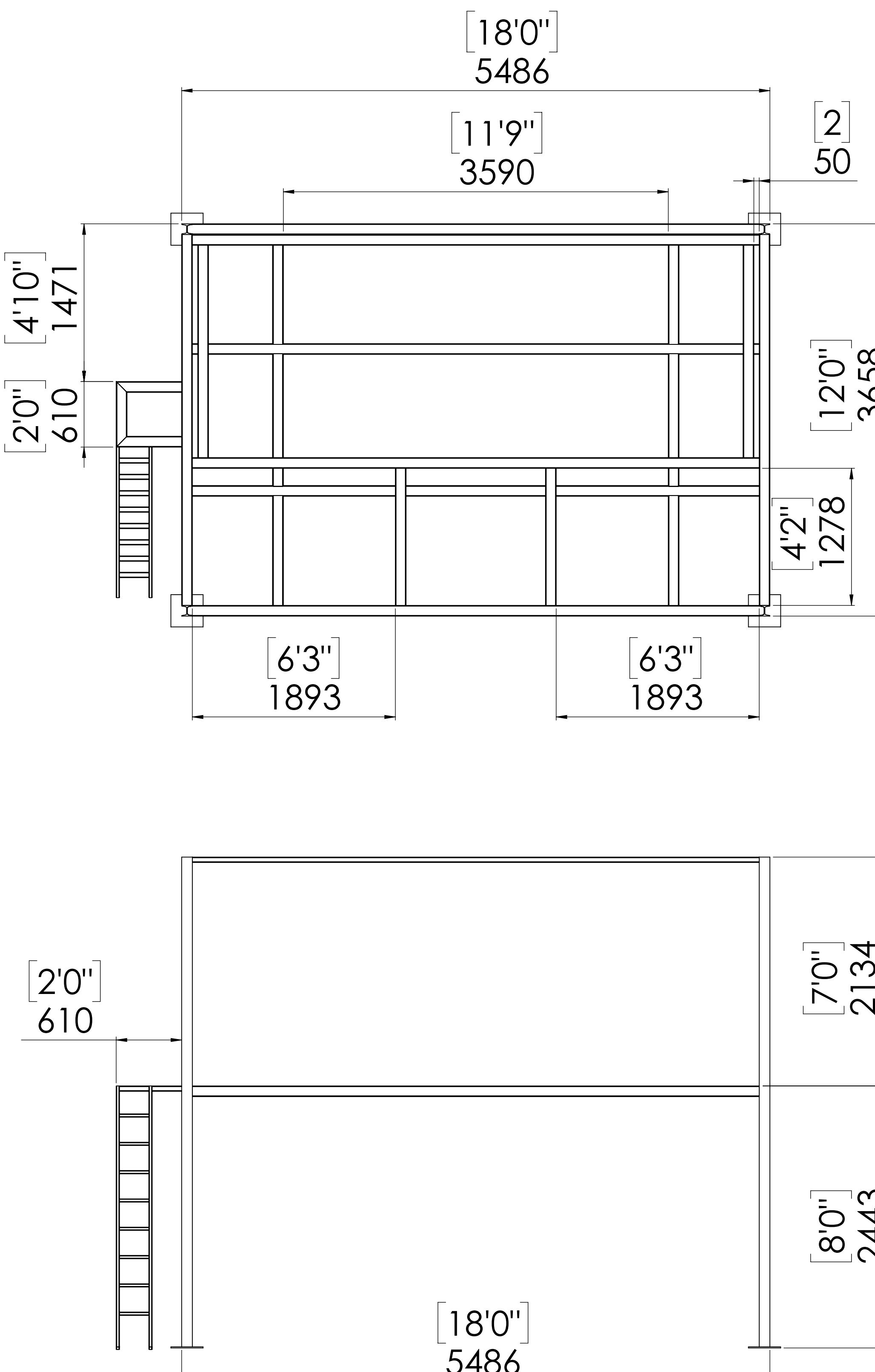
# CABIN ARRANGEMENT



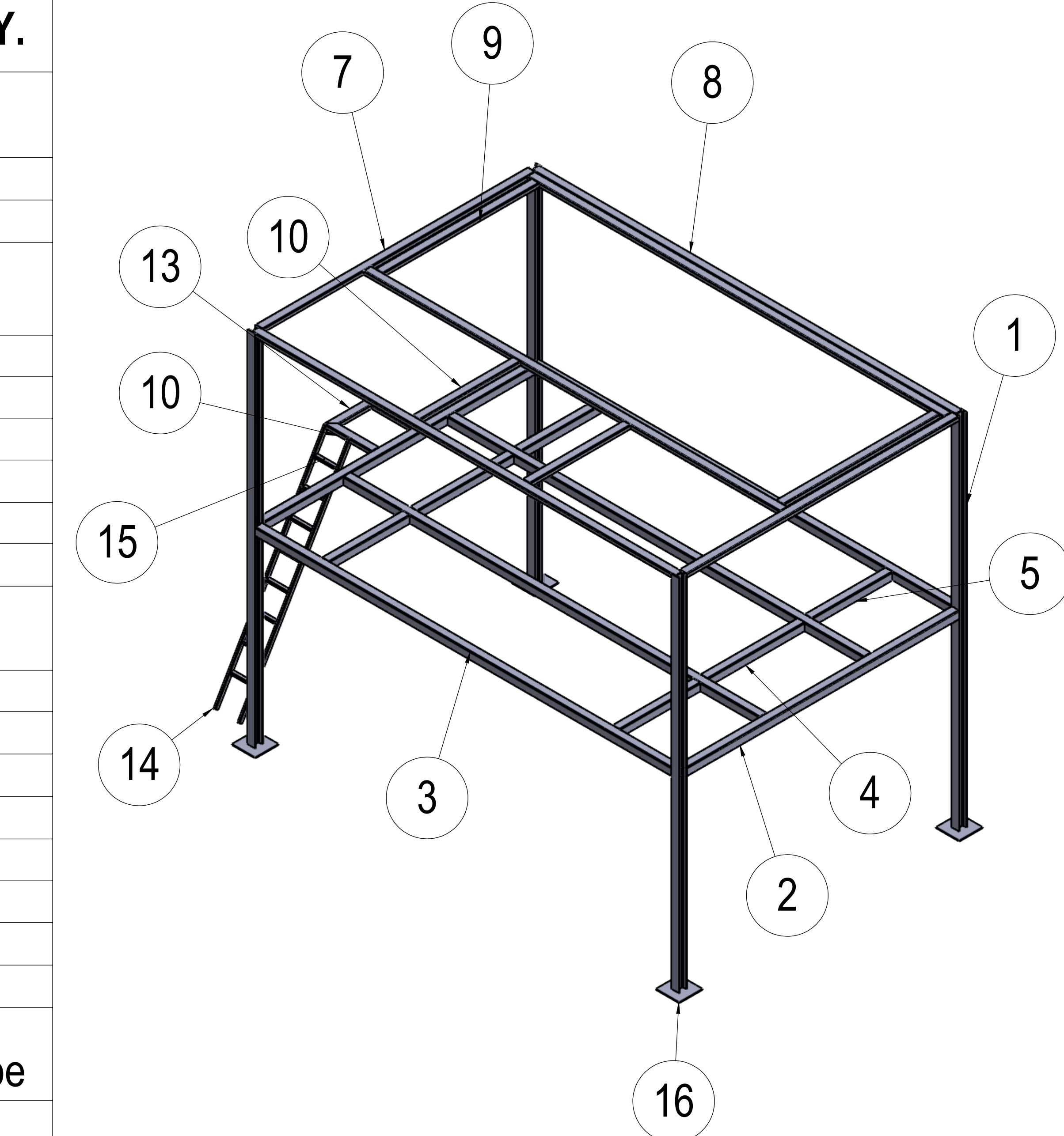
NOTE: ALL PRIMARY DIMENTIONS ARE IN mm,  
AND ALL SECONDARY DIMENTIONS ARE  
IN FEET AND INCHES

|   |   |
|---|---|
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| GEOMETRIC DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994   | Approved by : Shijo DATE 23/08/2021 MATERIAL WEIGHT Revision<br>Checked by : Vinayaka PART NAME (SAP DOC # - TYPE - VERSION #)<br>Prepared by : Jayapradhaban DRAWING NUMBER (SAP DOC # - TYPE - VERSION #)<br>SOLIDWORKS AA  |

# CABIN WELDMENT CUT LIST



| ITEM NO.   | LENGTH IN MM | LENGTH IN INCHS | QTY. |
|--|--------------|-----------------|------|
| 100x100 - 6 thik mm - i channel<br>4x4 - 0.25 thik inch - i channel                |              |                 |      |
| 1  | 4566         | 180.0           | 4    |
| 100x100 - 5 thik mm - Sq tube<br>4x4 - 0.25 thik inch - Sq tube                    |              |                 |      |
| 2  | 3458         | 136.1           | 2    |
| 3  | 5340         | 210.2           | 2    |
| 4  | 5286         | 208.1           | 2    |
| 5  | 1031         | 40.6            | 4    |
| 6  | 1237         | 48.7            | 2    |
| 100x 50 - 6 thik mm - C channel<br>4x2 - 0.25 thik inch - C channel                |              |                 |      |
| 7  | 5380         | 211.8           | 2    |
| 8  | 5286         | 208.1           | 2    |
| 9  | 3458         | 136.1           | 2    |
| 10   | 1278         | 50.3            | 2    |
| 11   | 1980         | 77.9            | 2    |
| 12   | 610          | 24.0            | 2    |
| 13   | 610          | 24.0            | 1    |
| 50x30 - 3 thik mm - Rectangular pipe<br>2x1.18 - 0.12 thik inch - Rectangular pipe |              |                 |      |
| 14   | 2457         | 96.7            | 2    |
| 15   | 275          | 10.8            | 8    |
| MS plate   |              |                 |      |
| 16   | 300X300X12   | 12X12X 0.5      | 4    |



NOTE: THE STRUCTURE AND BOM SHOWN ABOVE ARE FOR REFERANCE PURPOSE ONLY, FABRICATION CAN BE DONE AS PER REQUIREMENT

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UNSPECIFIED TOLERANCES ARE:  
LINEAR:  $\pm 1.0\text{mm}$   
ANGULAR:  $\pm 0.5^\circ$

UNLESS OTHERWISE SPECIFIED GEOMETRIC TOLERANCES ARE:  
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GEOMETRIC DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994

REVISION AA NOTES: NEW RELEASE

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|    | Approved by :<br><b>Shijo</b><br>Checked by :<br><b>Vinayaka</b><br>Prepared by :<br><b>Jayapradhaban</b> | DATE<br><b>23/08/2021</b> | 3D CAD FILE (SAP DOC # - TYPE - VERSION #) | DRAWING NUMBER (SAP DOC # - TYPE - VERSION #) |
|   |   |                           | THIRD ANGLE PROJECTION                     |   |
|   |   |                           | SHT 2                                      | OF 13   |
|   |   |                           | SIZE D                                     | SCALE 1:50                                    |

[18'0"]  
5486

[11'9"]  
3590

[3'1"]  
948

[3'1"]  
948

### MACHINE REAR END

### DUST BLOWER REGION

### EXCESS COLLECTOR REGION

### MACHINE LEFT

MS

RS

MS

RS-1

RS-2

MS

RS-1

RS-2

### MACHINE RIGHT

[12'0"]  
3658

### SECTION REGION

### STANCE REGION

MACHINE POSITIONING  
REGION (2150 x 1650mm)

MACHINE BASE FRAME  
DIMENTIONS 2110X1635mm

### MACHINE FRONT END

[3'4"]  
1017

CABIN WALL

# CABIN BASE

|  |                                |
|--|--------------------------------|
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Approved by : Shijo  
Checked by : Vinayaka  
Prepared by : Jayapradhaban

DATE  
23/08/2021

MATERIAL

3D CAD FILE (SAP DOC # - TYPE - VERSION #)

THIRD ANGLE PROJECTION

DRAWING NUMBER (SAP DOC # - TYPE - VERSION #)

WEIGHT

REVISION

SHT

OF

SIZE

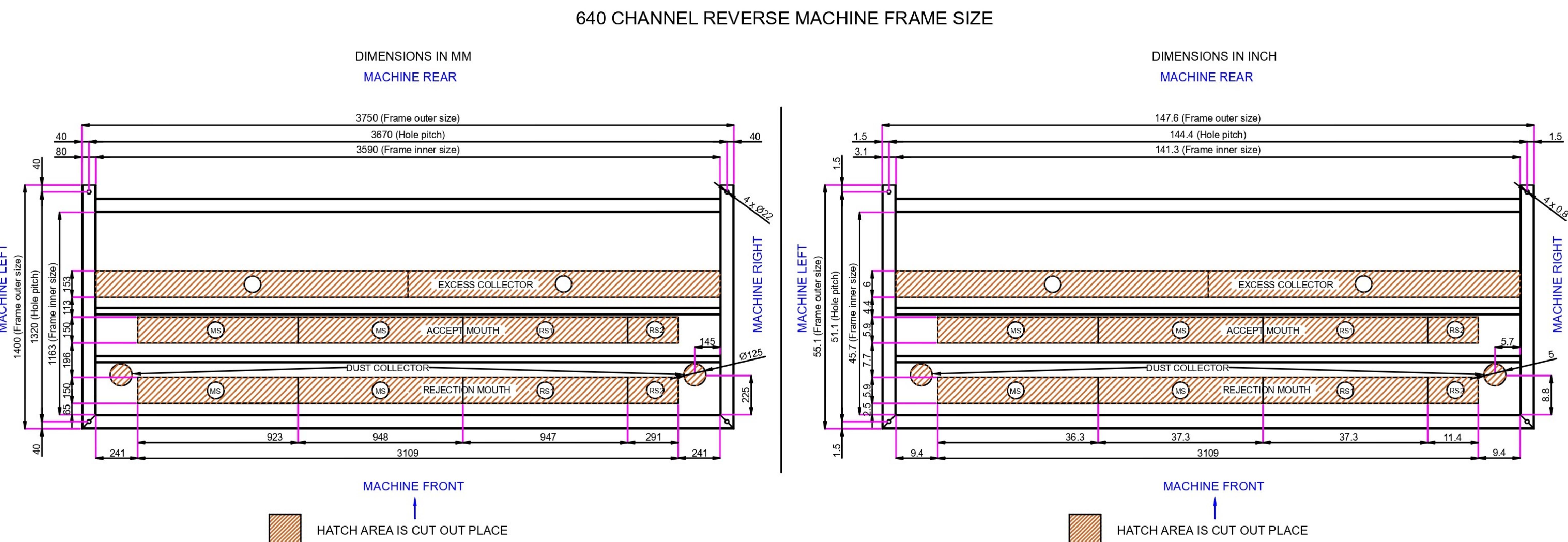
D

SCALE

1:50

AA

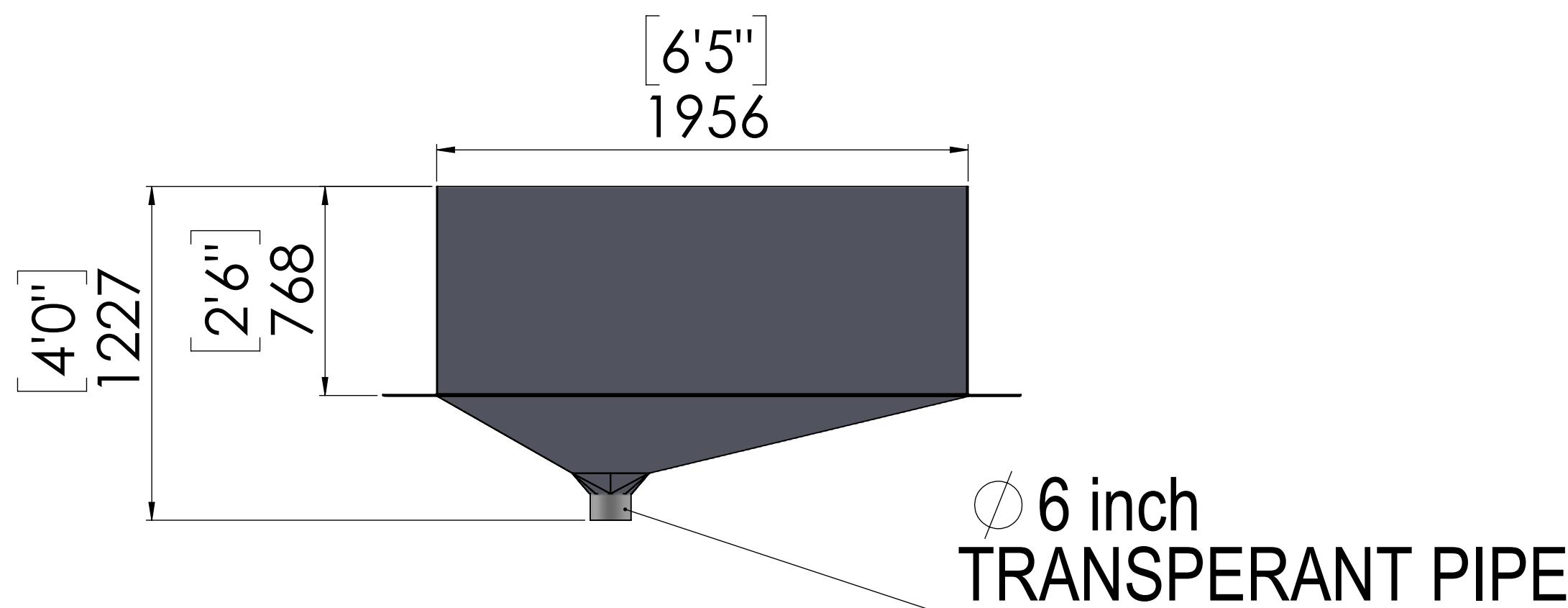
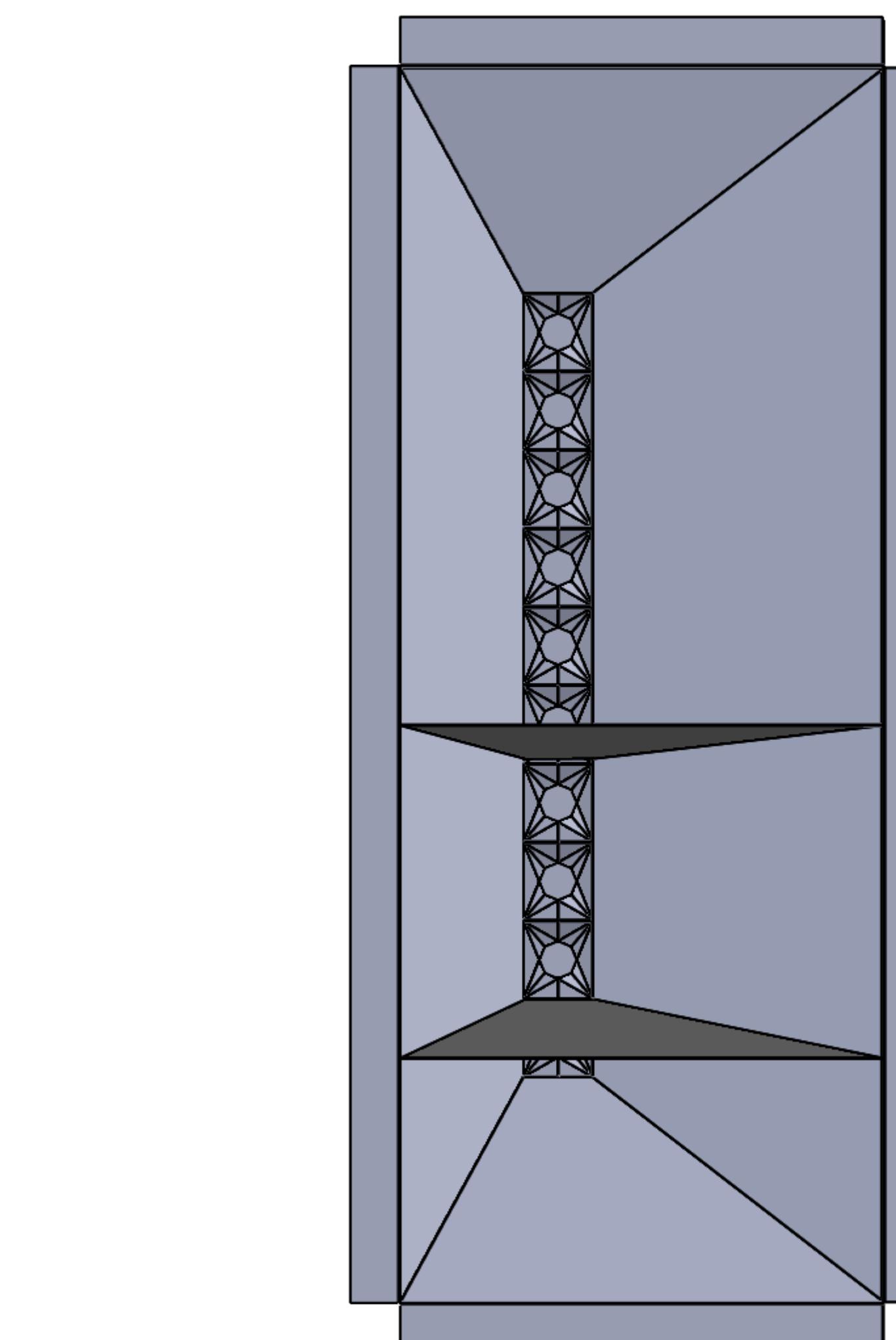
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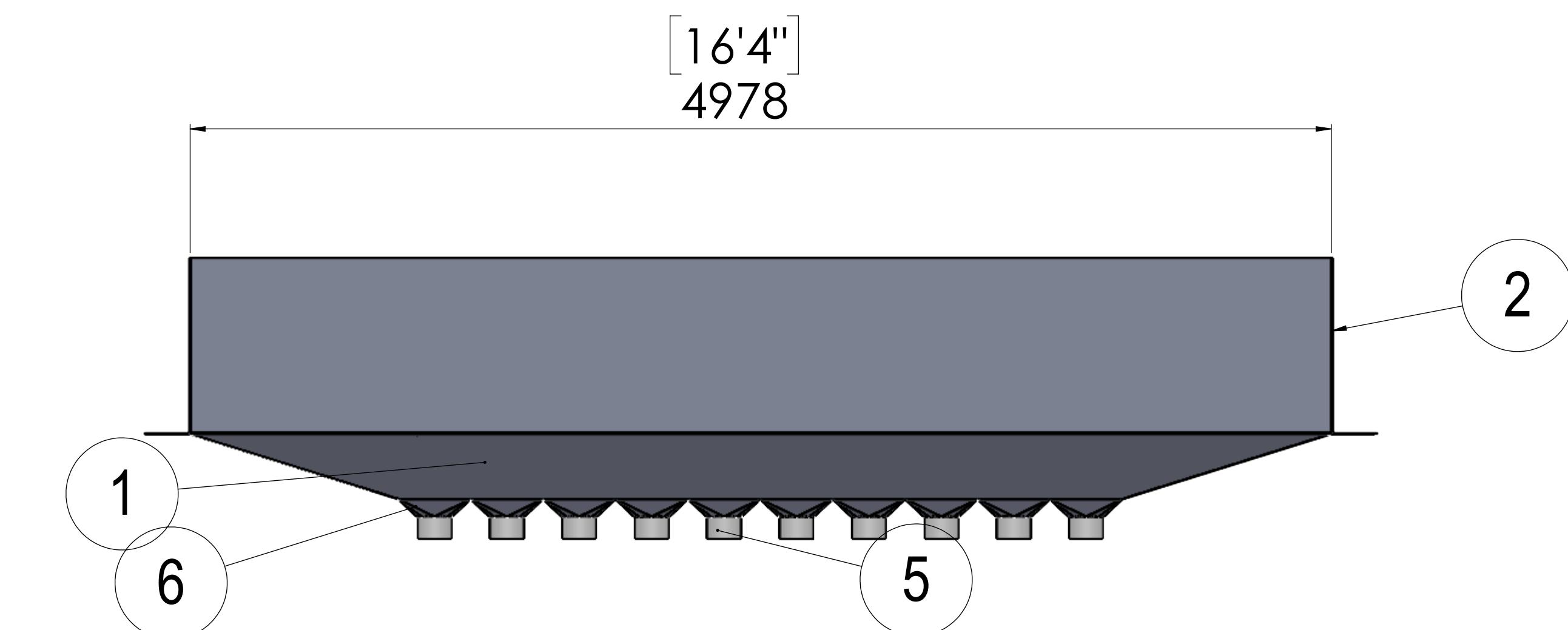
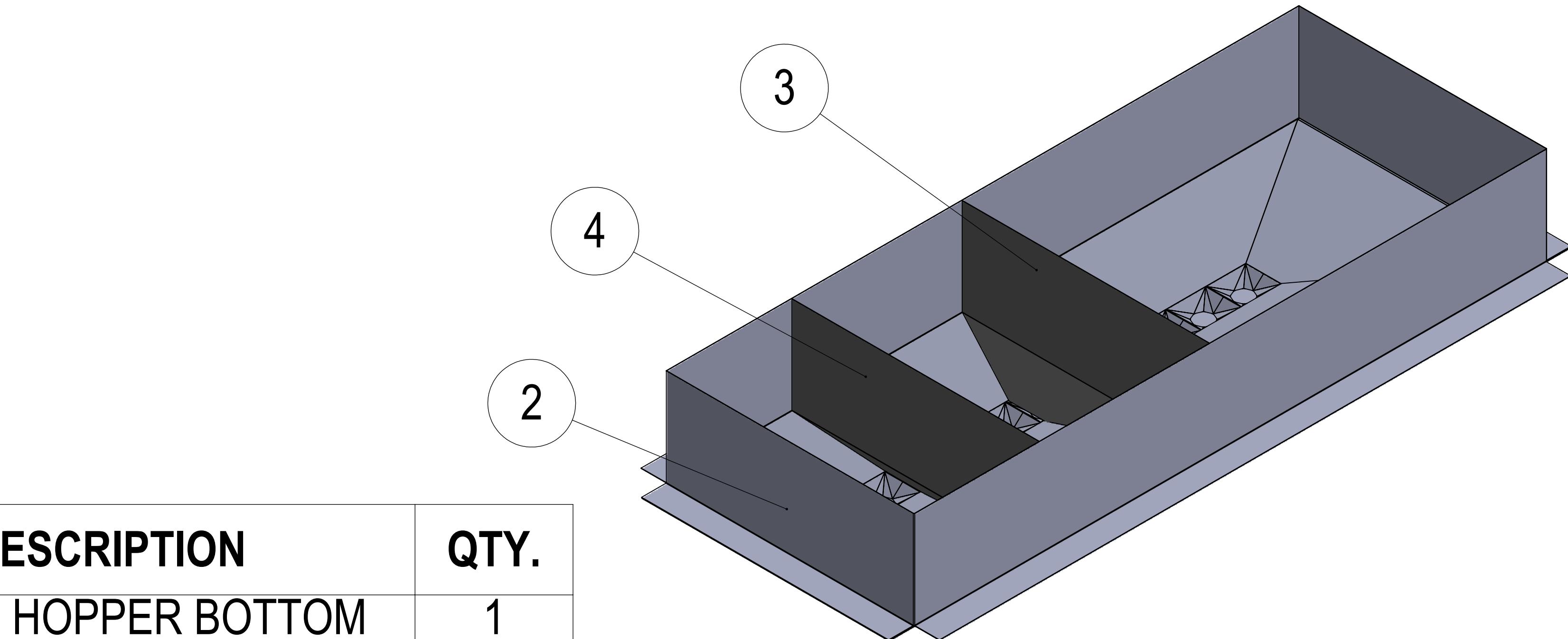
**NOTE: CUTOUTS CAN BE MADE LARGER  
THAN THE DIMENTIONS PRESCRIBED HERE**

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|  |  | Checked by :<br>Vinayaka  |                    | 3D CAD FILE (SAP DOC # - TYPE - VERSION #) | THIRD ANGLE PROJECTION |   |            |
|  |  | Prepared by :<br>Jayapradhaban  |                    | PART NAME (SAP 3D CAD DIR DESCRIPTION)     |                        | SHT 4   | OF 13      |
|  |  |   |                    |  |                        | SIZE D  | SCALE 1:50 |
| <b>AA</b>  |  |   |                    |  |                        |   |            |

# STORAGE HOPPER

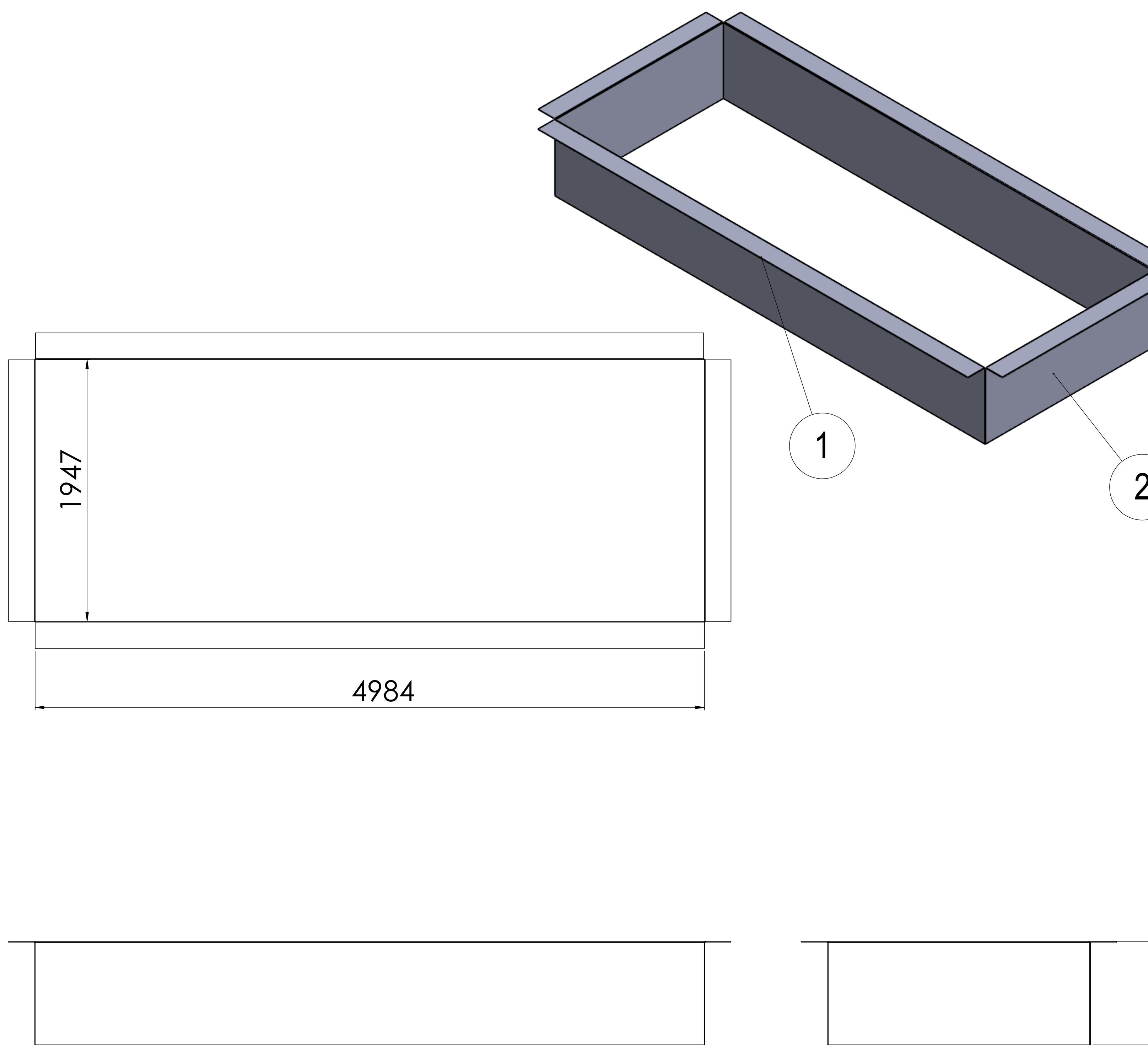


| ITEM NO. | DESCRIPTION           | QTY. |
|----------|-----------------------|------|
| 1        | STORAGE HOPPER BOTTOM | 1    |
| 2        | STORAGE HOPPER TOP    | 1    |
| 3        | SEPERATOR 1           | 1    |
| 4        | SEPERATOR 2           | 1    |
| 5        | pipe outlet           | 10   |
| 6        | PIPE CONNECTOR 1      | 10   |



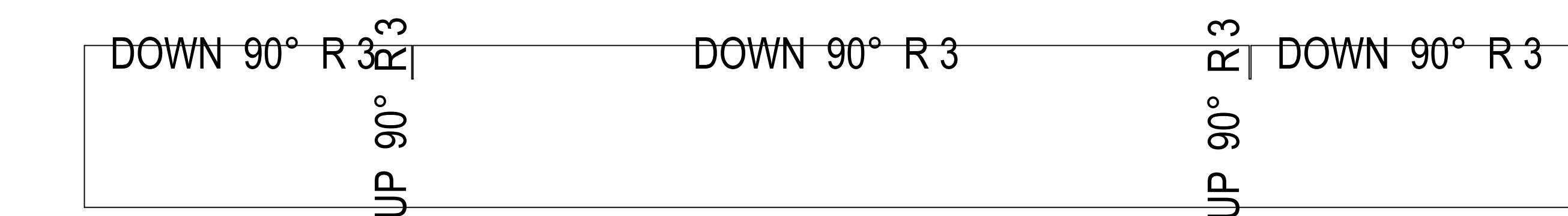
|   |  |   |                |
|---|--|---|----------------|
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| <br>Approved by : Shijo<br>Checked by : Vinayaka<br>Prepared by : Jayapradhaban  | DATE<br>23/08/2021<br><br>PART NAME (SAP DOC # - TYPE - VERSION #)<br>3D CAD FILE (SAP DOC # - TYPE - VERSION #) | MATERIAL<br>WEIGHT<br>DRAWING NUMBER (SAP DOC # - TYPE - VERSION #)<br>THIRD ANGLE PROJECTION | REVISION<br>AA |
| GEOMETRIC DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994   |  |   |                |

# STORAGE HOPPER TOP PART



DOWN 90° R 3

ITEM NUMBER:1  
FLAT PATTERN  
SCALE: 1:20



ITEM NUMBER:2  
FLAT PATTERN  
SCALE: 1:20

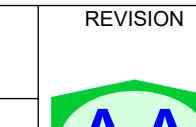
MATERIAL USED- MS  
SHEET METAL THICKNESS- 3mm  
RECOMENDED BENDING RADIUS- 3mm

|  |   |
|--|---|
| DO NOT SCALE DRAWING. CAD MATHEMATICAL DATA IS MASTER FOR THIS PART UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES UNLESS OTHERWISE SPECIFIED | REVISION AA NOTES: NEW RELEASE  |
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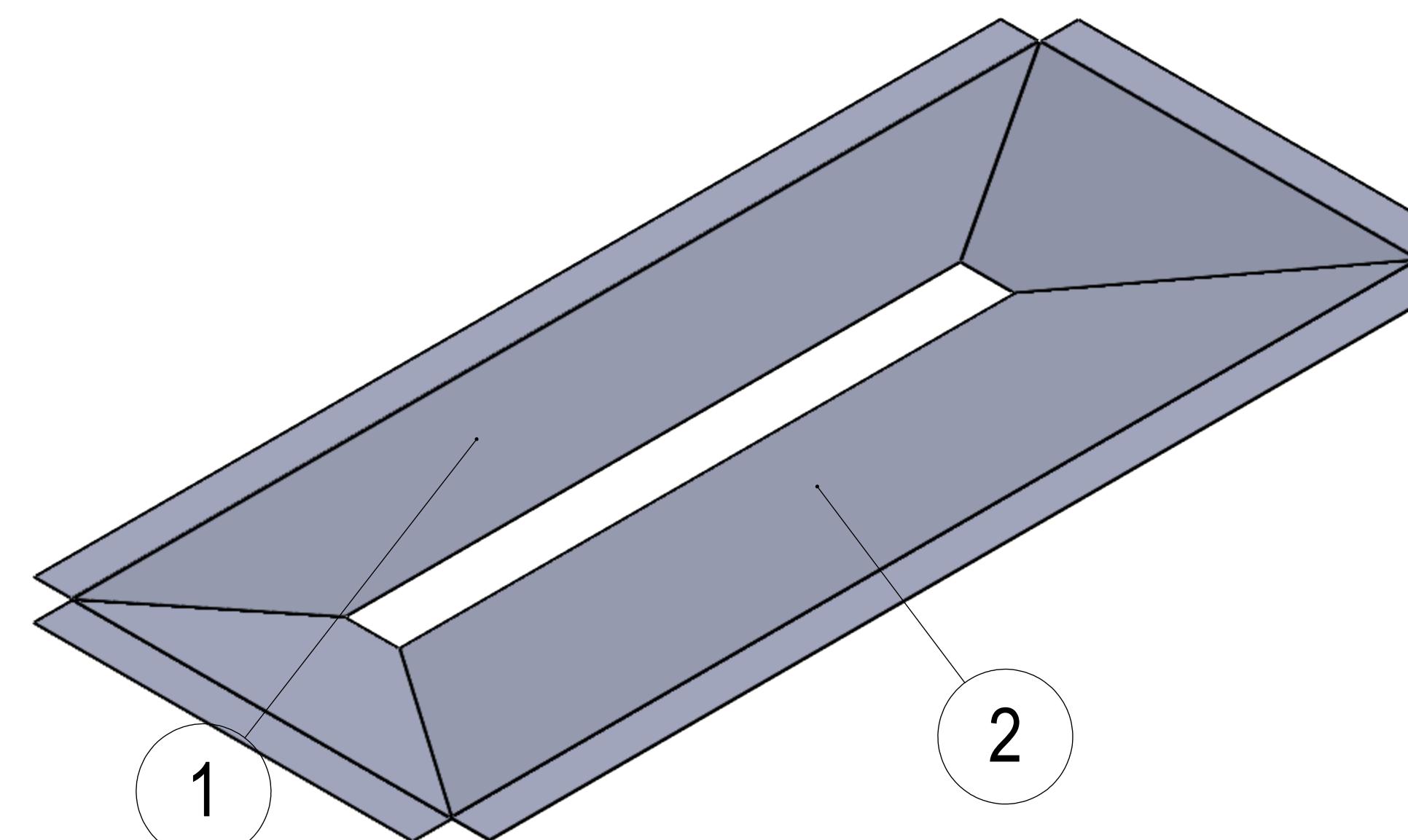
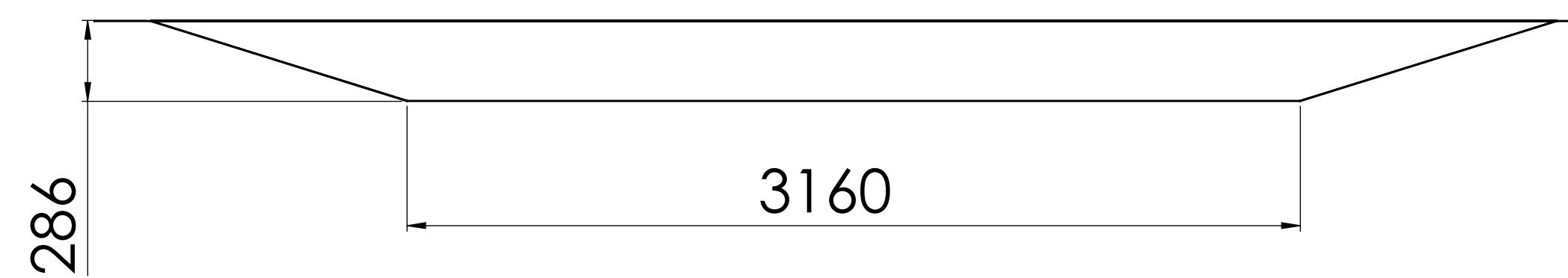
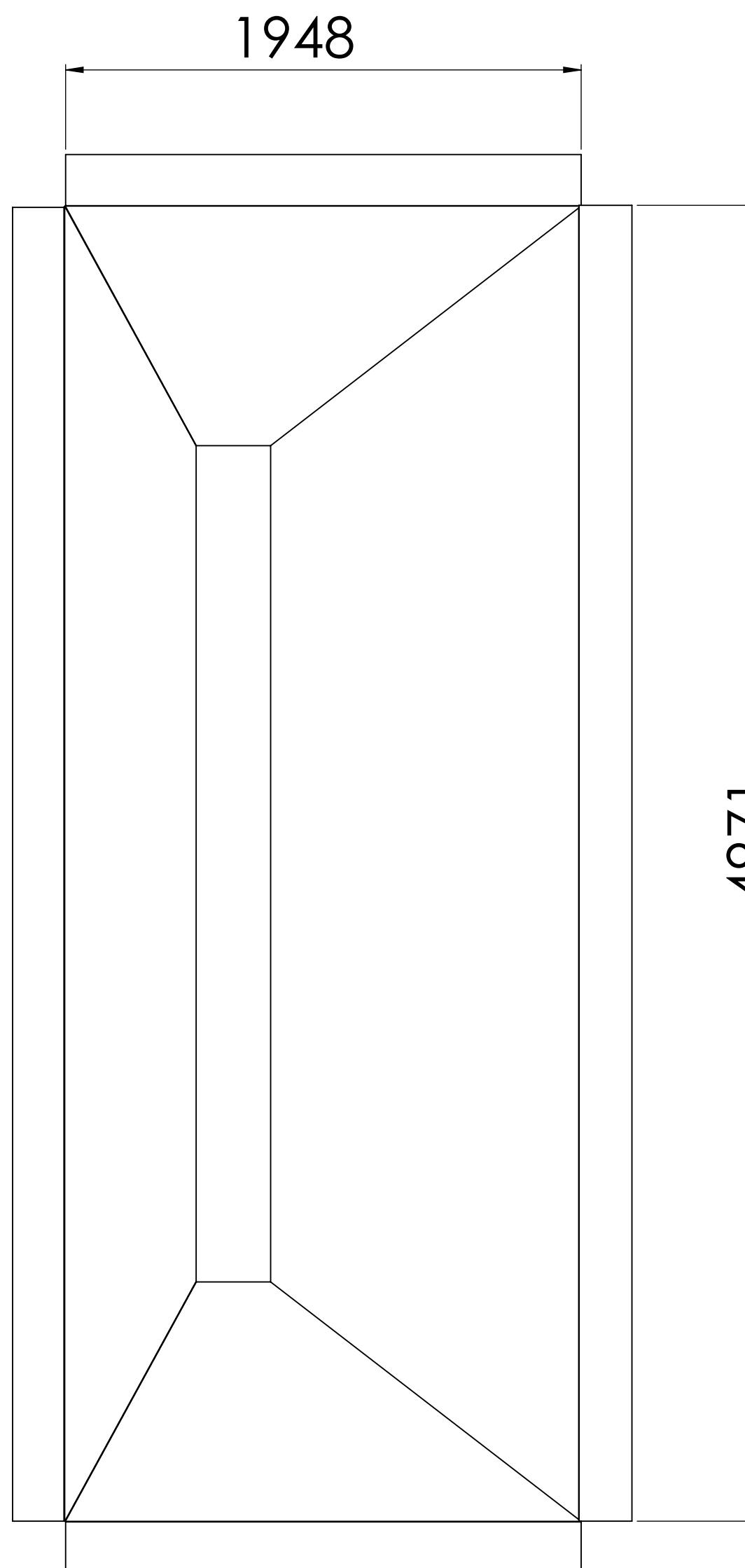


| 3D CAD FILE (SAP DOC # - TYPE - VERSION #) | DRAWING NUMBER (SAP DOC # - TYPE - VERSION #) |
|--|---|
| PART NAME (SAP 3D CAD DIR DESCRIPTION)     | THIRD ANGLE PROJECTION                        |

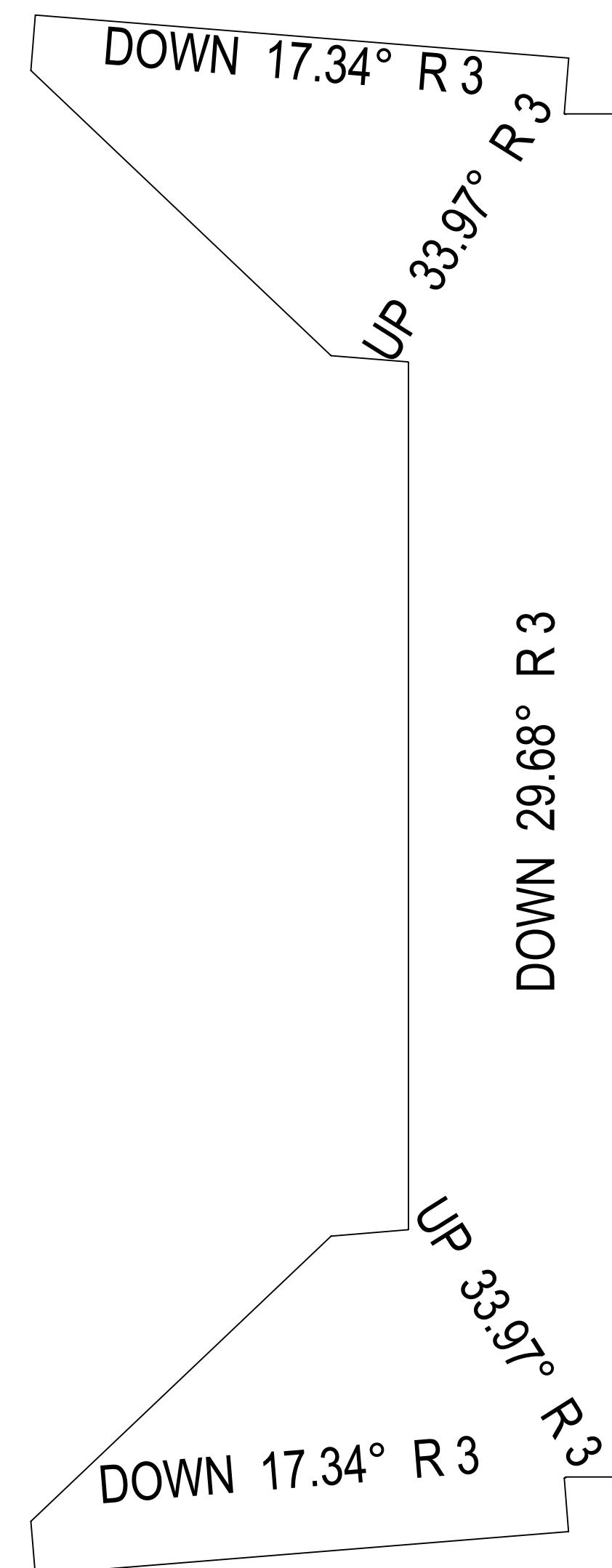
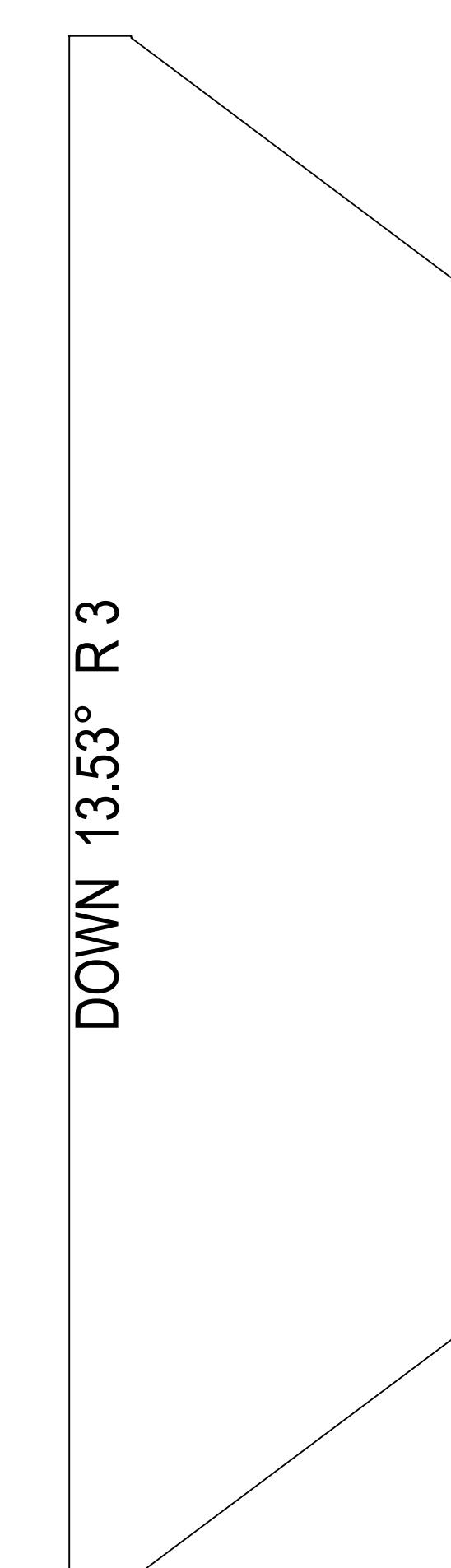
| SHT | OF | SIZE | SCALE |
|-----|----|------|-------|
| 6   | 13 | D    | 1:20  |



# STORAGE HOPPER BOTTOM



ITEM NUMBER:1  
FLAT PATTERN  
SCALE: 1:20



ITEM NUMBER:2  
FLAT PATTERN  
SCALE: 1:20

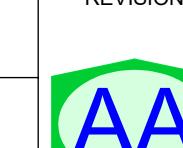
MATERIAL USED- MS  
SHEET METAL THICKNESS- 3mm  
RECOMENDED BENDING RADIUS- 3mm

|  |   |
|--|---|
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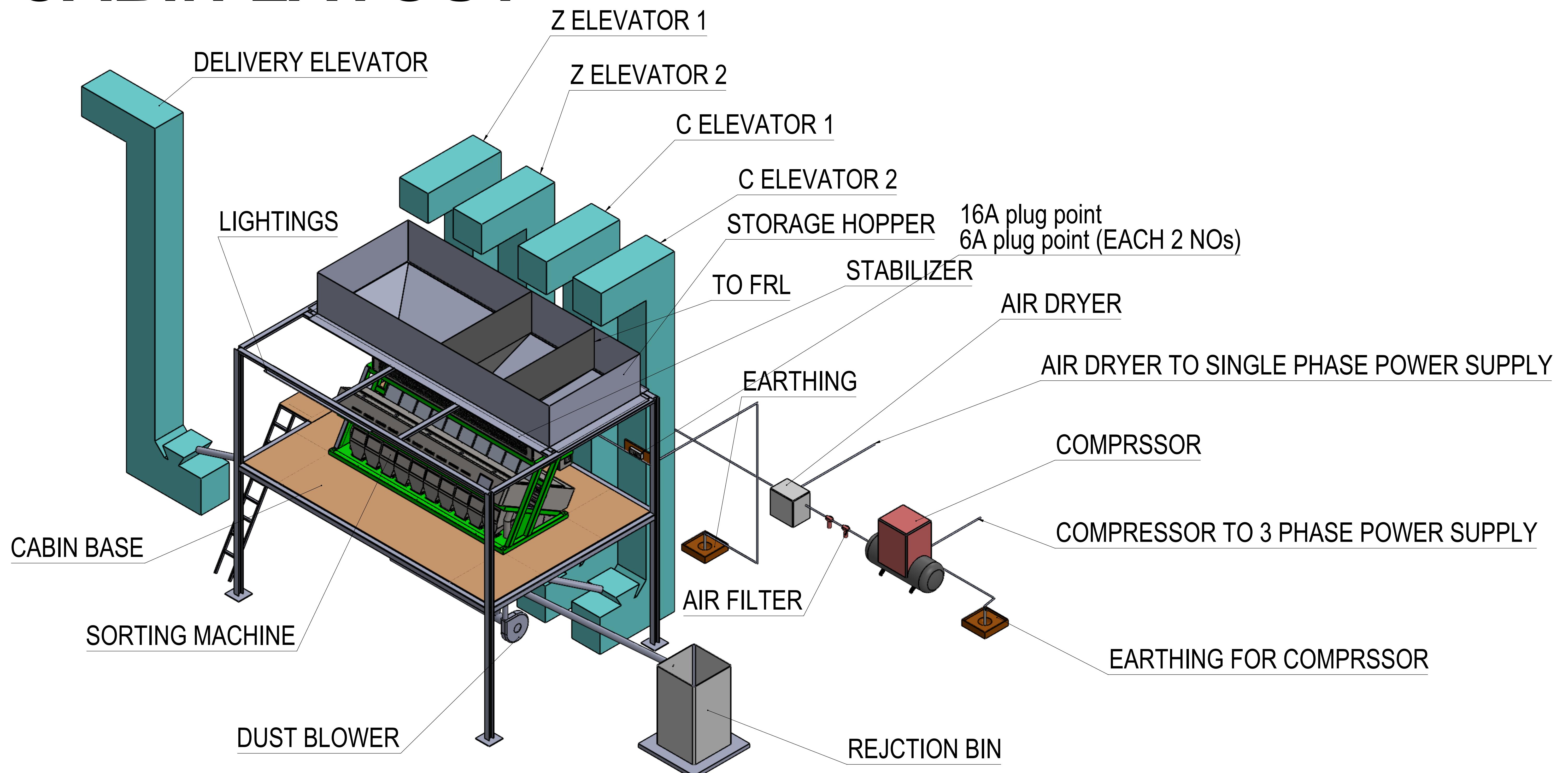


| 3D CAD FILE (SAP DOC # - TYPE - VERSION #) | THIRD ANGLE PROJECTION | DRAWING NUMBER (SAP DOC # - TYPE - VERSION #) |
|--|------------------------|---|
| PART NAME (SAP 3D CAD DIR DESCRIPTION)     |                        |   |

SHT 7 OF 13 SIZE D SCALE 1:20



# CABIN LAYOUT

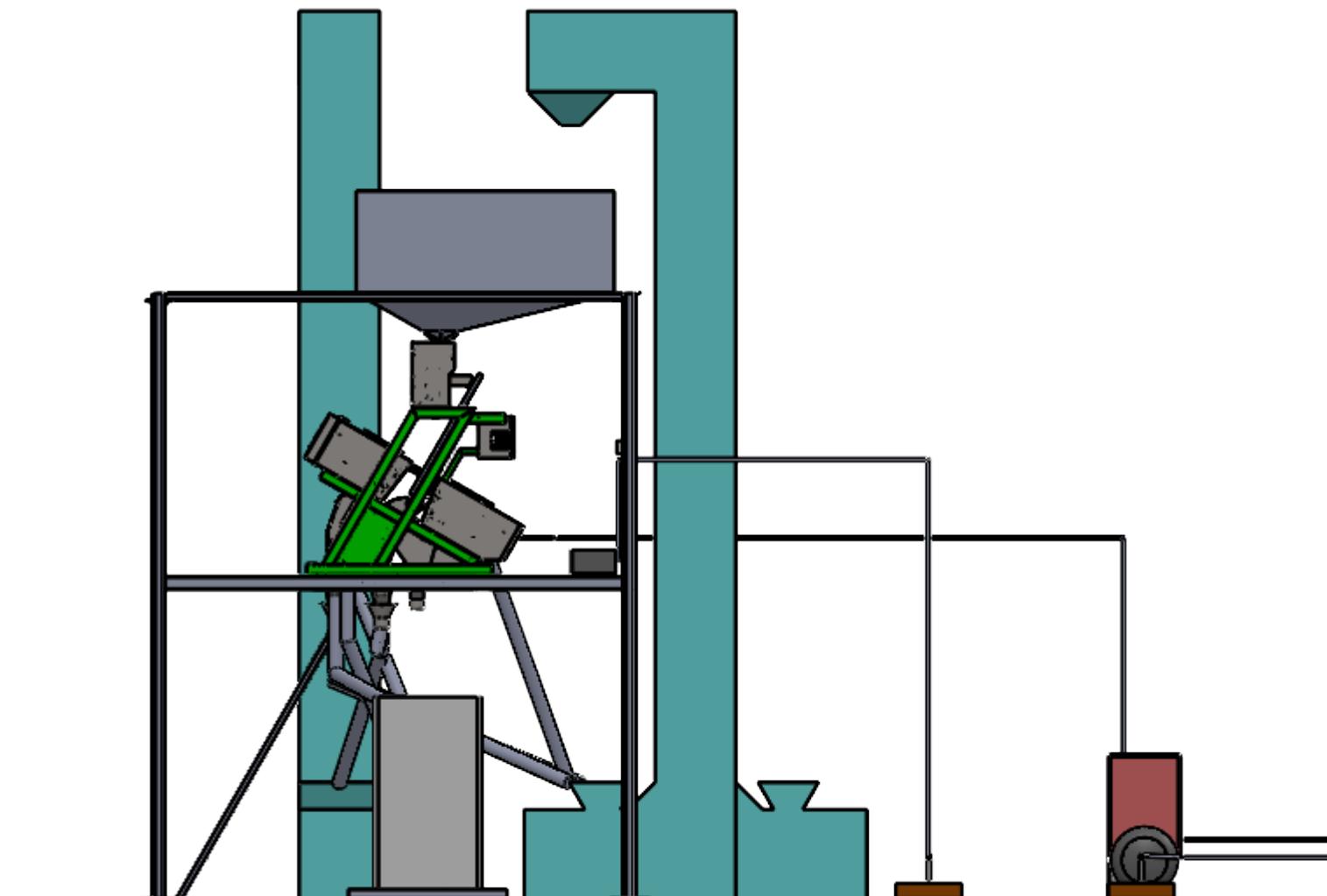
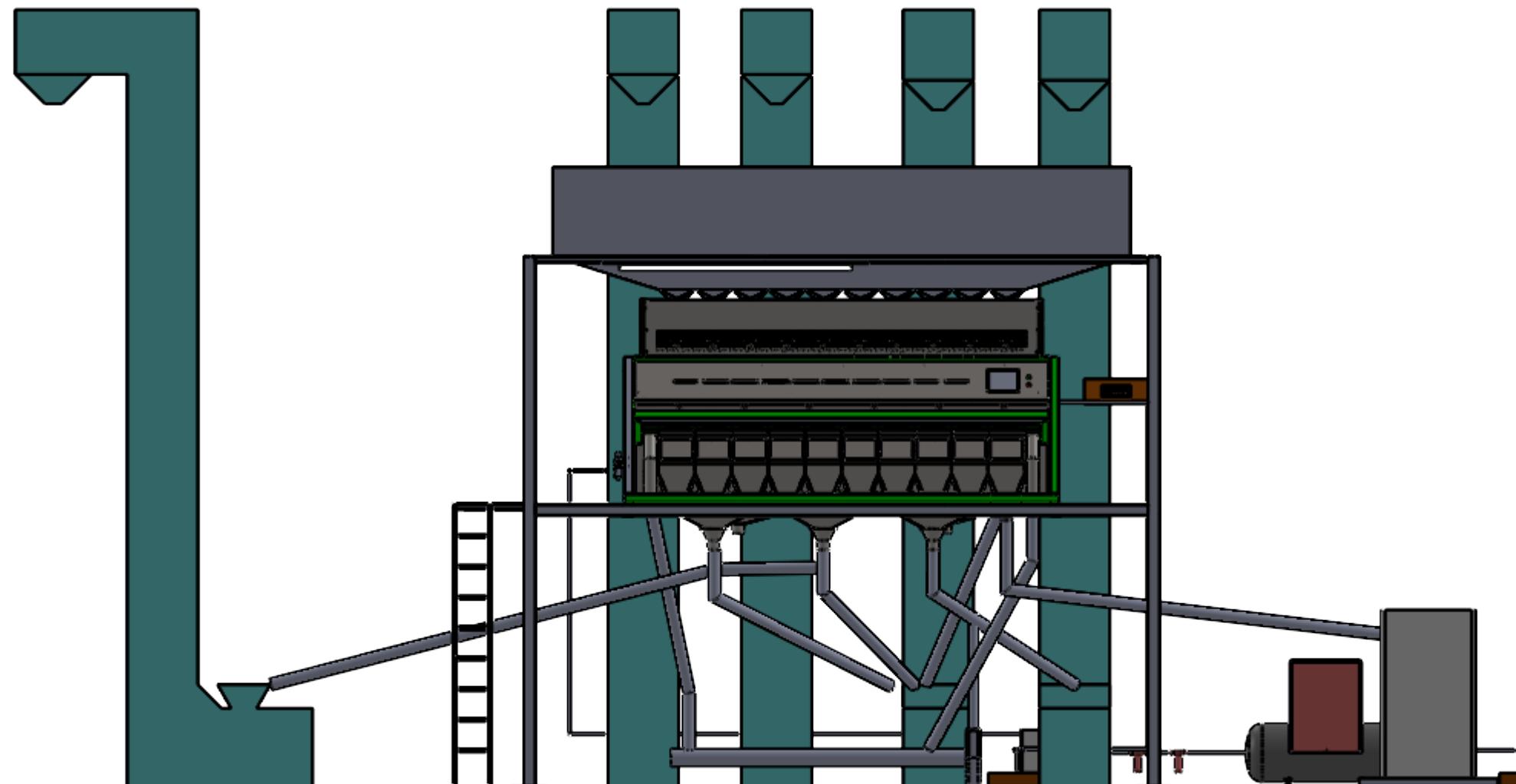
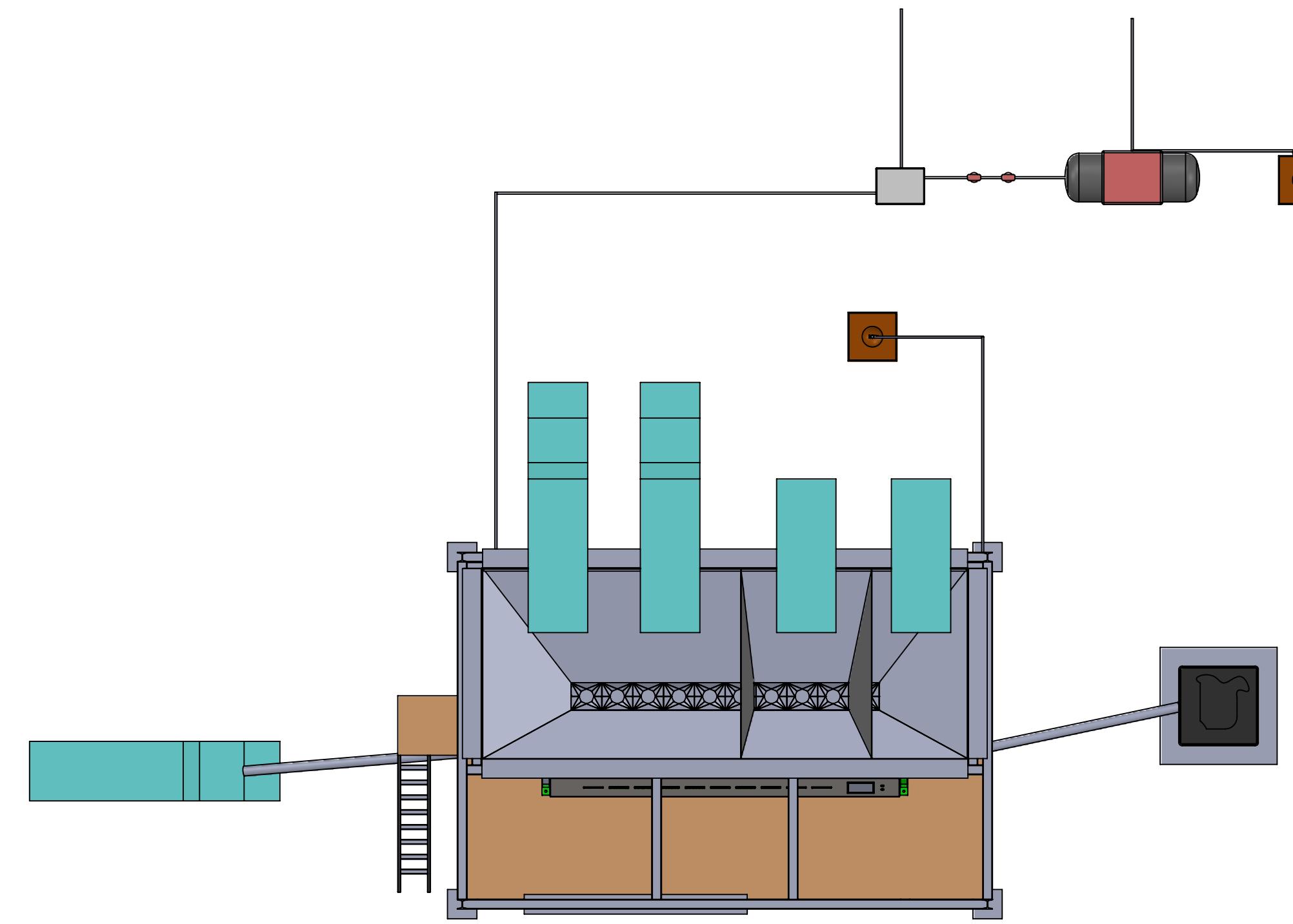


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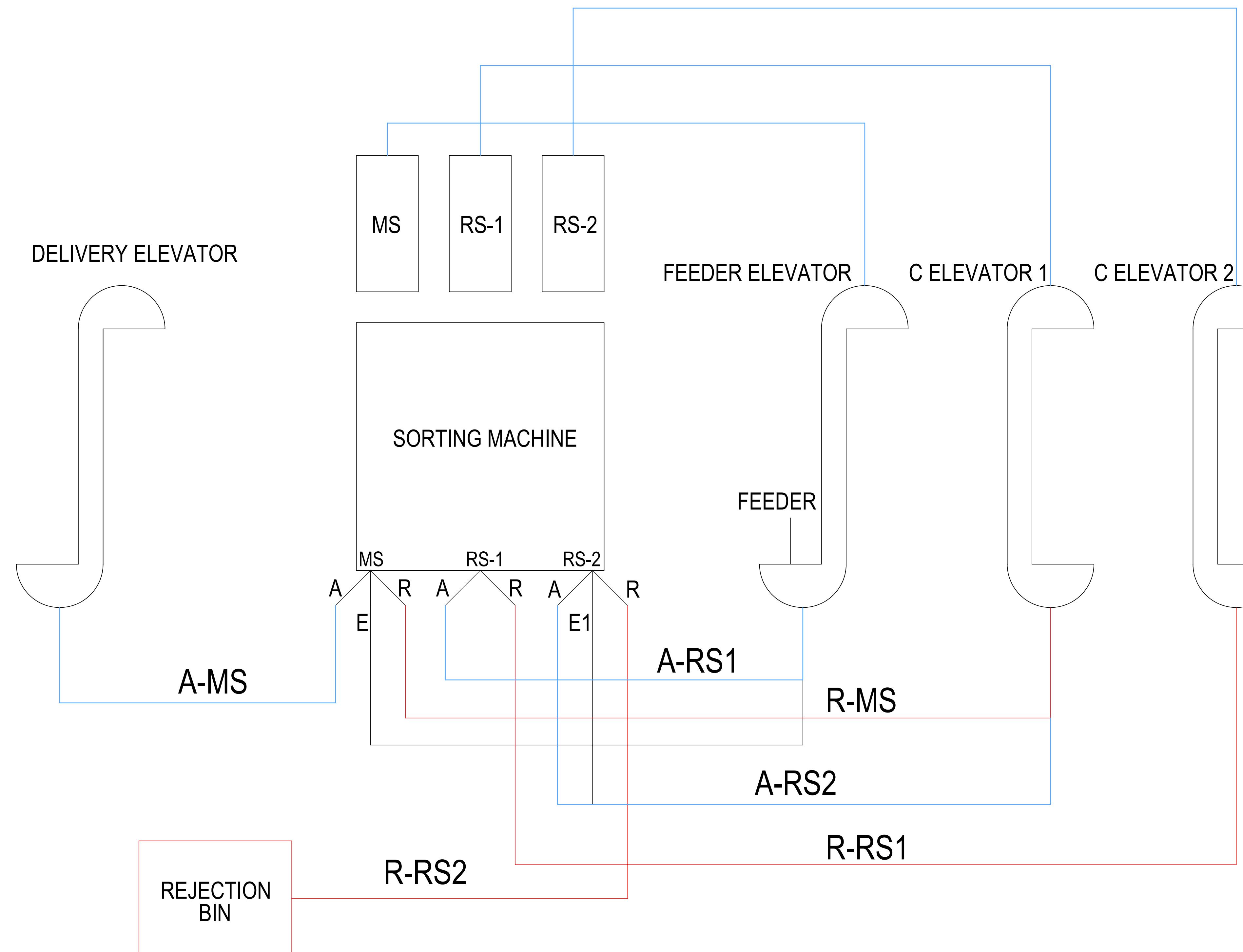
# CABIN LAYOUT

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|  |   |   |
|--|---|---|
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# CONNECTIONS



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UNSPECIFIED TOLERANCES ARE:  
LINEAR:  $\pm 1.0\text{mm}$   
ANGULAR:  $\pm 0.5^\circ$

UNLESS OTHERWISE SPECIFIED GEOMETRIC TOLERANCES ARE:  
ISO 2768-mK

GEOMETRIC DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994

REVISION AA NOTES: NEW RELEASE

| ORIGINAL RELEASE AUTHORIZATION  |   | MATERIAL           | WEIGHT                                     | REVISION  |
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|  | Approved by : Shijo<br>Checked by : Vinayaka<br>Prepared by : Jayapradhaban | DATE<br>23/08/2021 | 3D CAD FILE (SAP DOC # - TYPE - VERSION #) | DRAWING NUMBER (SAP DOC # - TYPE - VERSION #)<br>THIRD ANGLE PROJECTION   |
|   |   |                    | PART NAME (SAP 3D CAD DIR DESCRIPTION)     | SHT 10 OF 13 SIZE D SCALE 1:20<br> |

# SPECIFICATIONS

## COMPRESSOR SPECIFICATIONS

1. 3PHASE 50HP COMPRESSOR REQUIRED
2. 63A MCB(WITH SWITCH FUSE UNIT) TO BE USED
3. COMPRESSOR MUST BE OPERATED AT 7.5 BAR PRESSURE
4. FREE VENTILATION MUST BE PROVIDED
5. COMPRESSOR MUST BE GROUNDED
6. AIR LINE CONNECTION 1" OR 1.5" PIPE CPVC OR GI PIPE
7. MACHINE TO AIR LINE HOSE PIPE - 3/4" OR 1"

## CONNECTING CABLE SPECIFICATIONS

1. 3 PHASE CABLE FOR COMPRESSOR
2. SINGLE PHASE CABLE FOR MACHINE AND AIR DRYER

## STORAGE HOPPER SPECIFICATIONS

1. REFER DRAWINGS FOR DIMENTIONS
2. 5.5+ METER CUBE STORAGE CAPACITY
3. 3000+ kilograms OF GROUNDNUIT CAN BE ACCOMODATED IN THE HOPPER  
(THE VALUES MAY VARY SIGNIFICANTLY AS THE DENSITY OF THE GRAIN DEPENDS ON IT'S MOISTURE CONTENT)
4. THE SEPERATORS CAN BE POSITIONED AS PER REQUIREMENT

## MACHINE SPECIFICATIONS

1. MACHINE CAPACITY: 2000 TO 7500 KGS PER HOUR BASED ON MATERIAL IT WILL VARY
2. THE MACHINE MUST BE GROUNDED
3. CVCF MUST BE USED IF GENERATOR IS USED
4. STABILIZER SHOULD NOT BE USED WHILE USING GENERATOR
5. COMPRESSOR TO MACHINE 1 or 1.5 inch  $\odot$  PIPE

## DUST BLOWER SPECIFICATIONS

1. 4inch PIPES TO BE USED TO CONNECT THE DUST BLOWER.
2. 5HP DUST BLOWER TO BE USED

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|  | Checked by :<br>Vinayaka  |
|  | Prepared by :<br>Jayapradhaban  |
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|  | SHT 11 OF 13 SIZE D SCALE 1:50<br>AA  |

# Maintenance

## Daily maintenance

1. Clean the full machine before switch on
2. Clean the Front and back Camera box glass
3. Maintain Air pressure in gauge is 3 to 5 bar based on material
4. Remove water in compressor before switch on
5. Clean solinoid valve in FRL unit area
6. Maintain FRL air pressure in 2.5 to 3 bar

## Quarterly maintenance

1. Change compressor oil for every 2000 hrs
2. General check up for compressor and dryer from purchased source

## Weekly maintenance

1. Electrical box fan dust filter clean

## Yearly maintenance

1. Change filter in FRL Unit

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# Air pressure



Check the air pressure level in FRL unit for wiper and maintain air level at 2.5 to 3 bar



Clean the solinoid valve daily to prevent from jamming

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