

CHICKADEE MODEL

SPRING LAKE, NC 28390



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3 BEDROOMS - 2 BATHROOMS

SELF SUSTAINABLE SOLUTIONS

CHICKADEE MODEL
51 Appaloosa Dr.

COVER SHEET

REVISION	BY	Date

Date 02-27-2022

Scale

Checked by MMP

Project number 22122



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2/28/2022

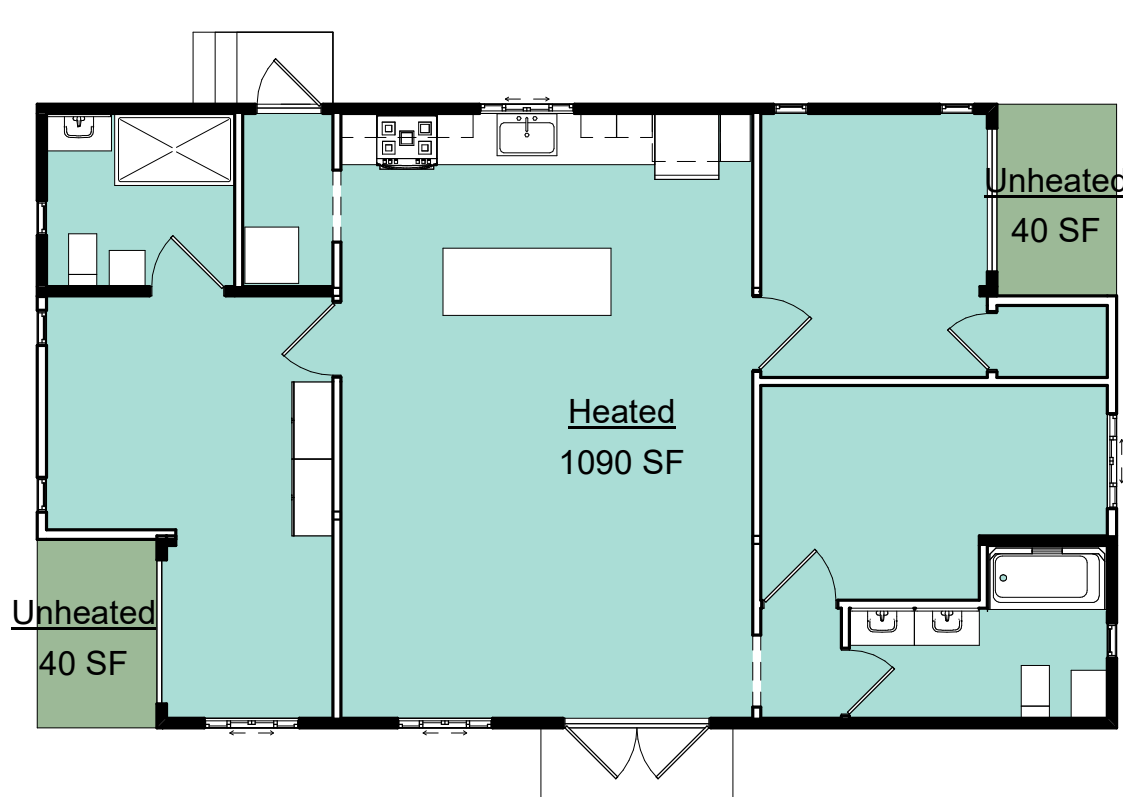
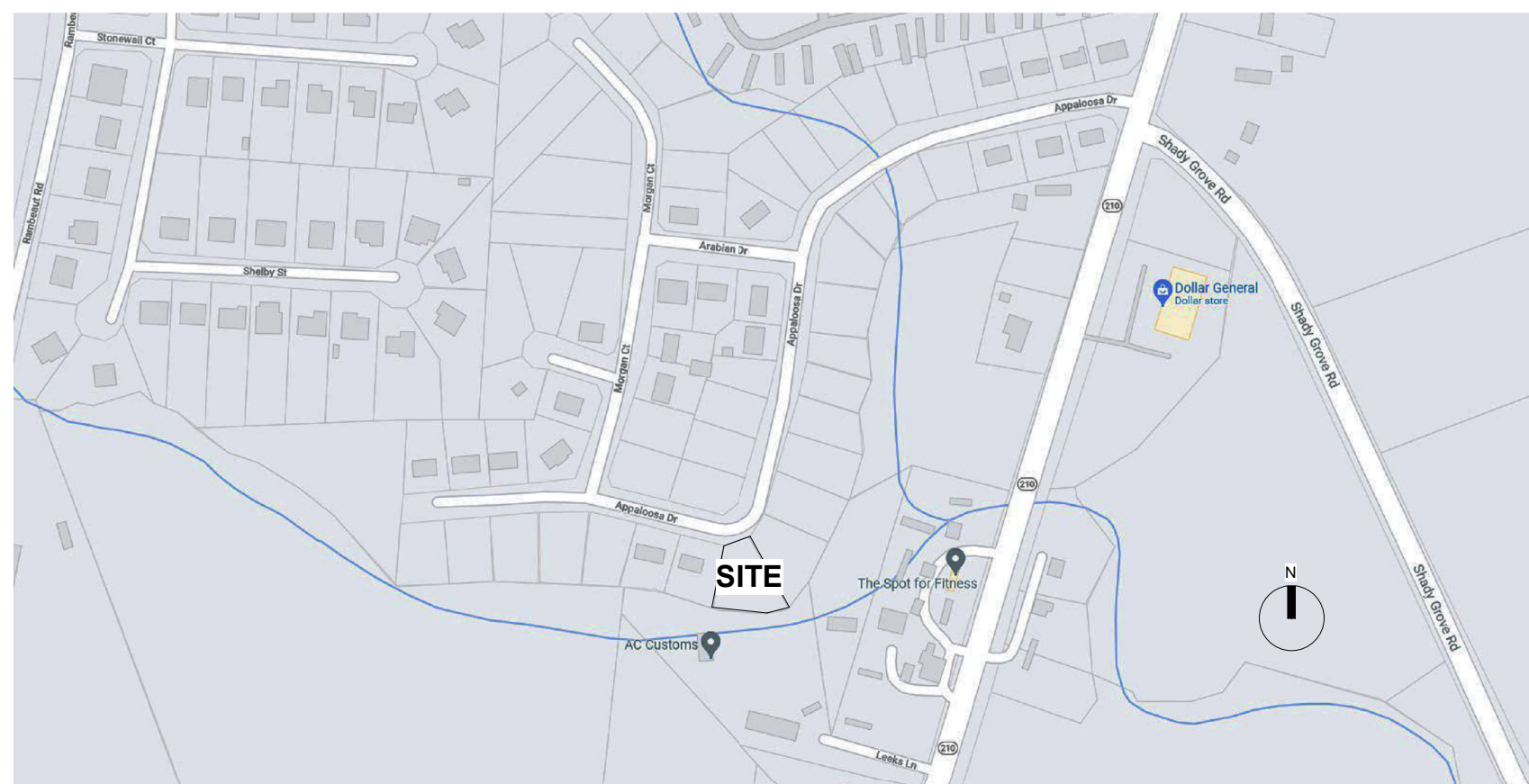
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D1.0

VICINITY MAP

LOCATION: 51 APPALOOSA DR. SPRING LAKE, NC 28390

HARNETT COUNTY



Areas

- 80 SF
- 1090 SF

Areas Schedule		
Name	Area	Level
Heated	1090 SF	FIRST FLOOR PLAN
Unheated	40 SF	FIRST FLOOR PLAN
Unheated	40 SF	FIRST FLOOR PLAN

GENERAL NOTES

ENGINEER NOTES SUPERSEDE GENERAL DESIGN NOTES

01 GENERAL

01.01 SUMMARY

01.02 QUALITY REQUIREMENTS

- .01 ALL CONSTRUCTION SHALL COMPLY WITH THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL
- .02 ALL DIMENSIONS ARE FROM FACE OF STRUCTURE UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS PRIOR TO STARTING WORK. CONTACT STRUCTURAL ENGINEER AS APPROPRIATE IF CONFLICTING OR PROHIBITIVE CONDITIONS ARE ENCOUNTERED.

01.03 PERFORMANCE REQUIREMENTS

- .01 PRIMARY USE LOADS
 - ROOF LL 30 PSF
 - DL 15 PSF
 - FLOOR LL 40 PSF
 - DL 10 PSF
- .02 DESIGN WIND SPEED
 - ELEVATION 2100 AMSL
 - WIND SPEED 115 MPH
- .03 SEISMIC DESIGN CATEGORY
 - CATEGORY C
- .04 GROUND SNOW LOAD
 - SNOW LOAD 20 PSF

03 CONCRETE

03.01 CAST-IN-PLACE CONCRETE FOOTINGS

- .01 SHALL CONFORM TO ACI 318-14: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- .02 ALL CONCRETE SHALL ACHIEVE A COMPRESSIVE STRENGTH (F_c) OF 3,000 PSI AT 28 DAYS U.N.O.
- .03 ALL CONCRETE SHALL BE "NORMAL WEIGHT" (150 PCF) U.N.O.
- .04 MAXIMUM WATER TO CEMENT RATIO = 0.5
- .05 AIR CONTENT = 6%
- .06 DELIVERED PRE-MIX CONCRETE SHALL NOT HAVE WATER ADDED WITHOUT APPROVAL OF ENGINEER.
- .07 CALCIUM CHLORIDE OR SALT ADMIXTURES ARE NOT PERMITTED.

05 METALS

05.01 STRUCTURAL STEEL

- .01 SHALL CONFORM TO AISC 360: SPECIFICATION FOR STEEL BUILDINGS.
- .02 SHALL CONFORM TO RCSC: SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
- .03 SHALL BE SEALED FOR CORROSION RESISTANCE.
- .04 MATERIALS
 - HSS = ASTM A600 GRADE B (F_y=46 KSI)
 - PIPE = ASTM A53 GRADE B (F_y=35 KSI)
 - CHANNEL = ASTM A36 (F_y=36 KSI)
 - PLATE & BAR = ASTM A36 (F_y=36 KSI)
 - W-SHAPE = ASTM A992 (F_y=50 KSI)

05.02 WELDS

- .01 ELECTRODES = 70XX

05.03 REINFORCING STEEL

- .01 ASTM A615, GRADE 60
- .02 HORIZONTAL REINFORCING IN FOOTINGS TO BE TIED AND SUSPENDED FROM ABOVE, OR TO BE PLACED ON CHAIRS DESIGNED TO SUPPORT REINFORCING ON GRADE. DO NOT USE ROCKS OR WOOD TO SUPPORT REINFORCING.
- .03 PROTECT CONCRETE FROM COLD WEATHER DURING POURING AND CURING PER ACI 306R.
- .04 POST-INSTALLED ANCHORS TO BE INSTALLED FOLLOWING MANUFACTURER'S INSTRUCTIONS INCLUDING THOROUGH HOLE CLEANING.

06 WOOD, PLASTICS, AND COMPOSITES


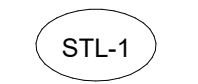
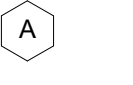
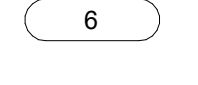
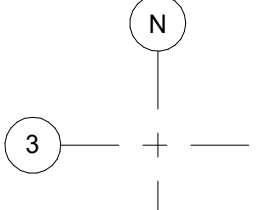
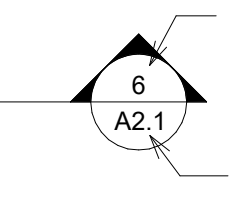
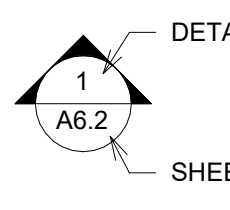
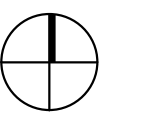
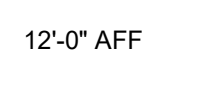
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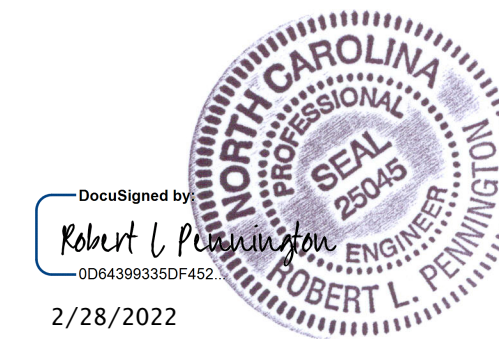
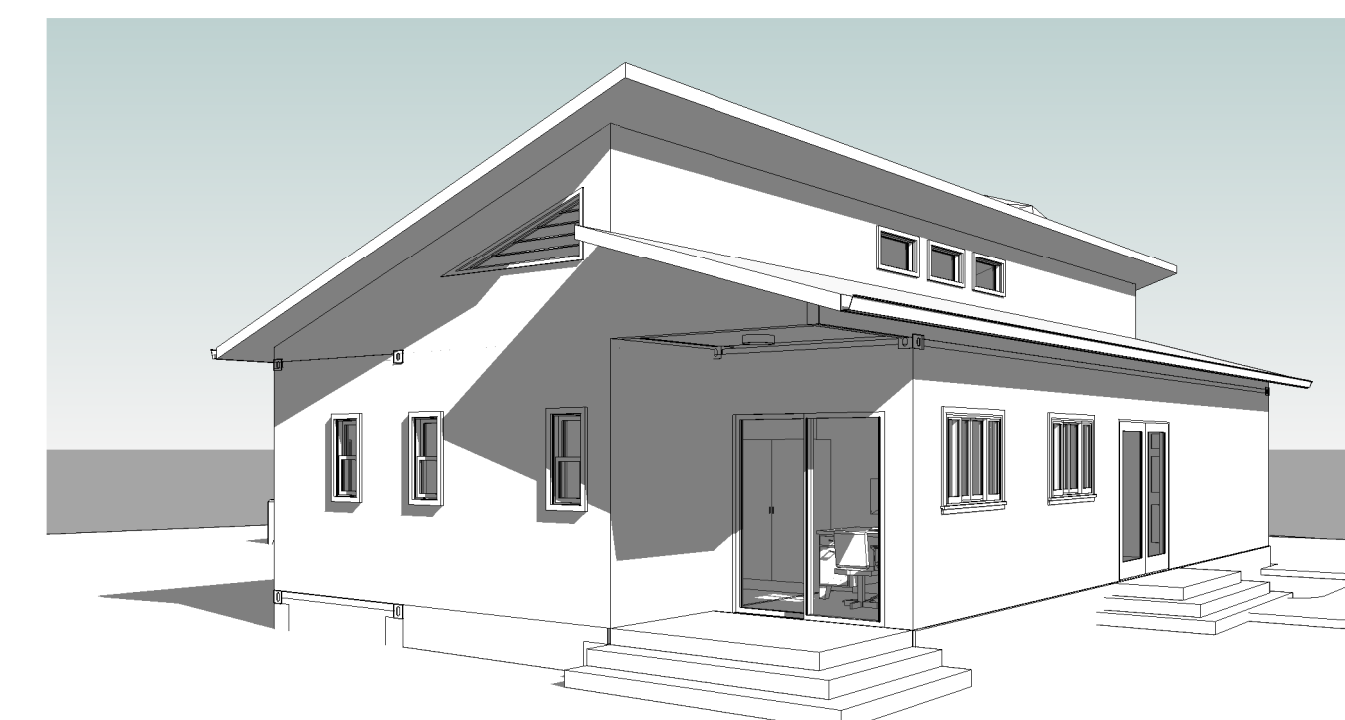
- .01 ALL WOOD DESIGN AND CONSTRUCTION TO CONFORM TO THE ANSIAWC NDS: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- .02 ALL LUMBER SHALL BE PROTECTED FROM MOISTURE, HEAT AND DAMAGE DURING DELIVERY, STORAGE AND INSTALLATION.

06.02 WOOD FRAMING

- .01 SHALL BE GRADED PER ANSIAWC NDS: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- .02 ALL REFERENCED PRESSURE-PRESERVATIVE TREATED LUMBER (PT) SHALL BE SOUTHERN PINE, #2 OR BETTER.

GENERAL SYMBOL LEGEND

	ELEVATION IN PLAN & SECTION
	MATERIAL TAG
	WINDOW TAG
	DOOR TAG
	COLUMN GRIDS
	SECTION SYMBOL
	ELEVATION SYMBOL
	NORTH ARROW
	CEILING TAG



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SELF SUSTAINABLE SOLUTIONS

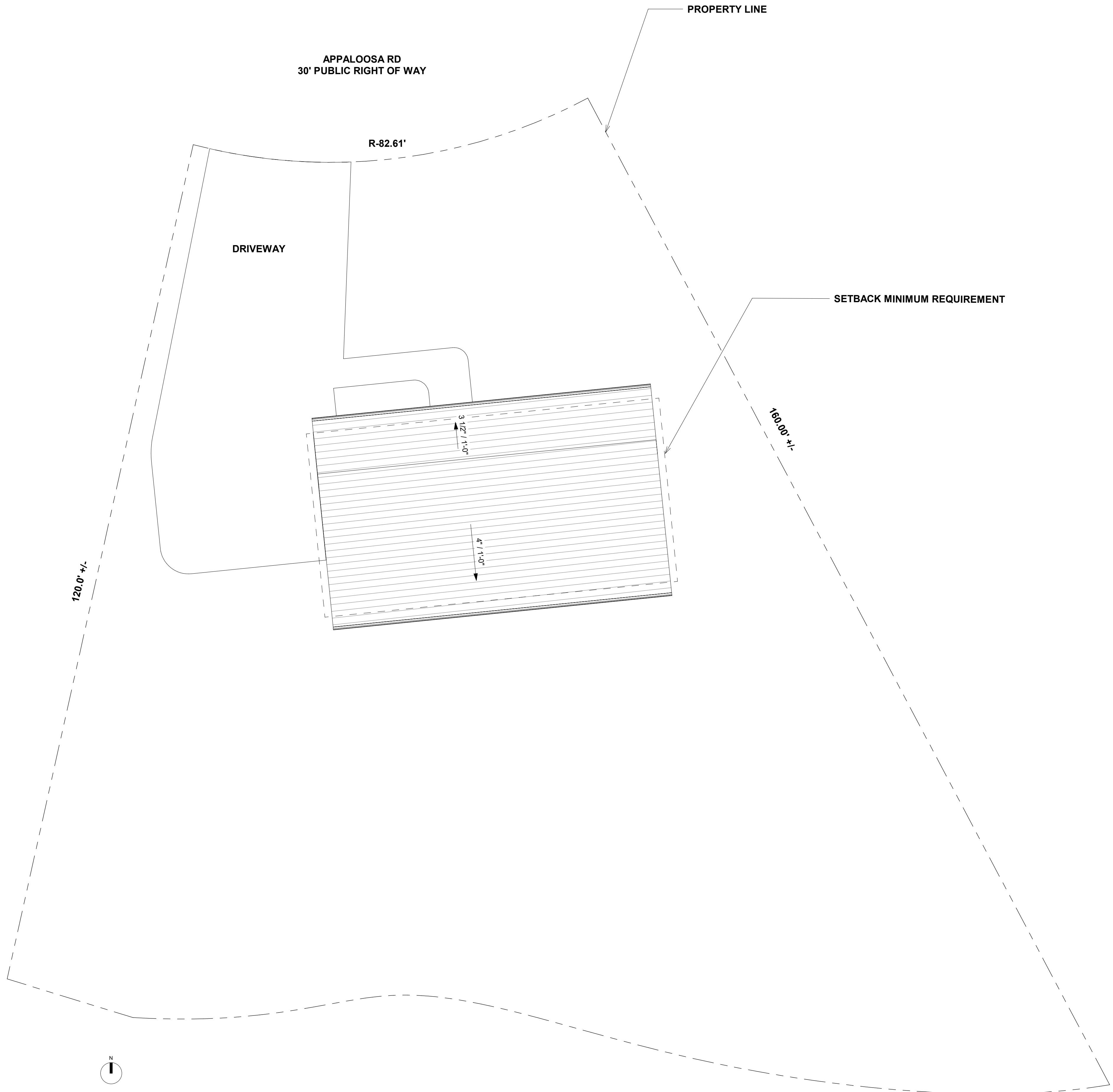
51 Appaloosa Dr.
 Spring Lake, NC 28390

GENERAL NOTES

REVISION	BY	Date

Date 02-27-2022
 Scale 1/8" = 1'-0"
 Checked by MMP
 Project number 22122

D1.1



① SITE
1/8" = 1'-0"

Drawn by



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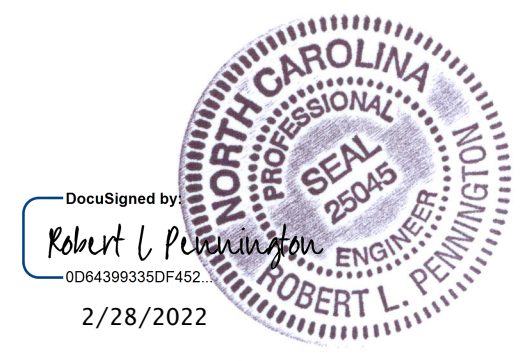
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PROPOSED SITE PLAN

REVISION	BY	Date

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D1.2

SELF SUSTAINABLE SOLUTIONS

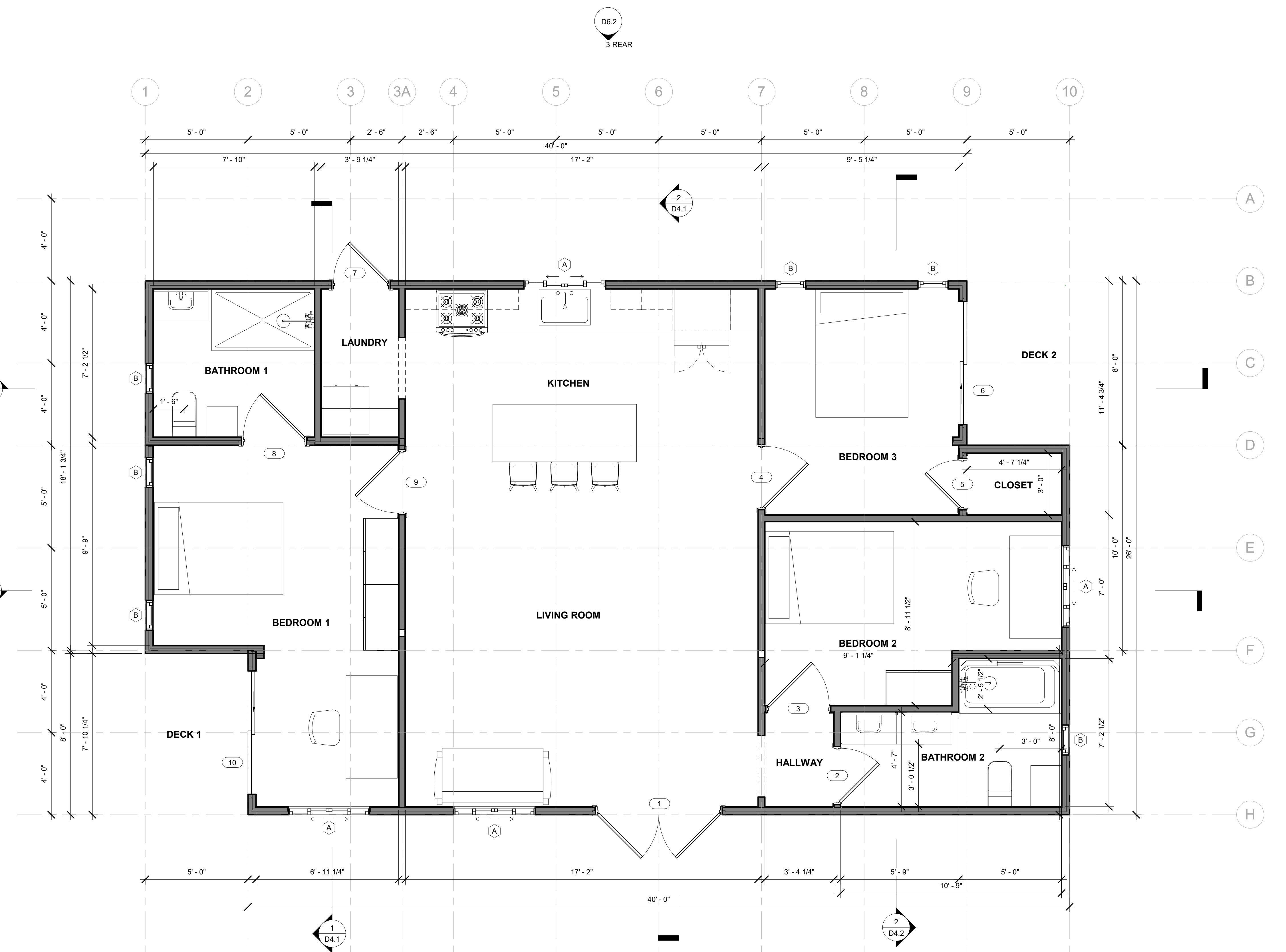
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FIRST FLOOR PLAN

REVISION	BY	Date

Date 02-27-2022
 Scale 3/8" = 1'-0"
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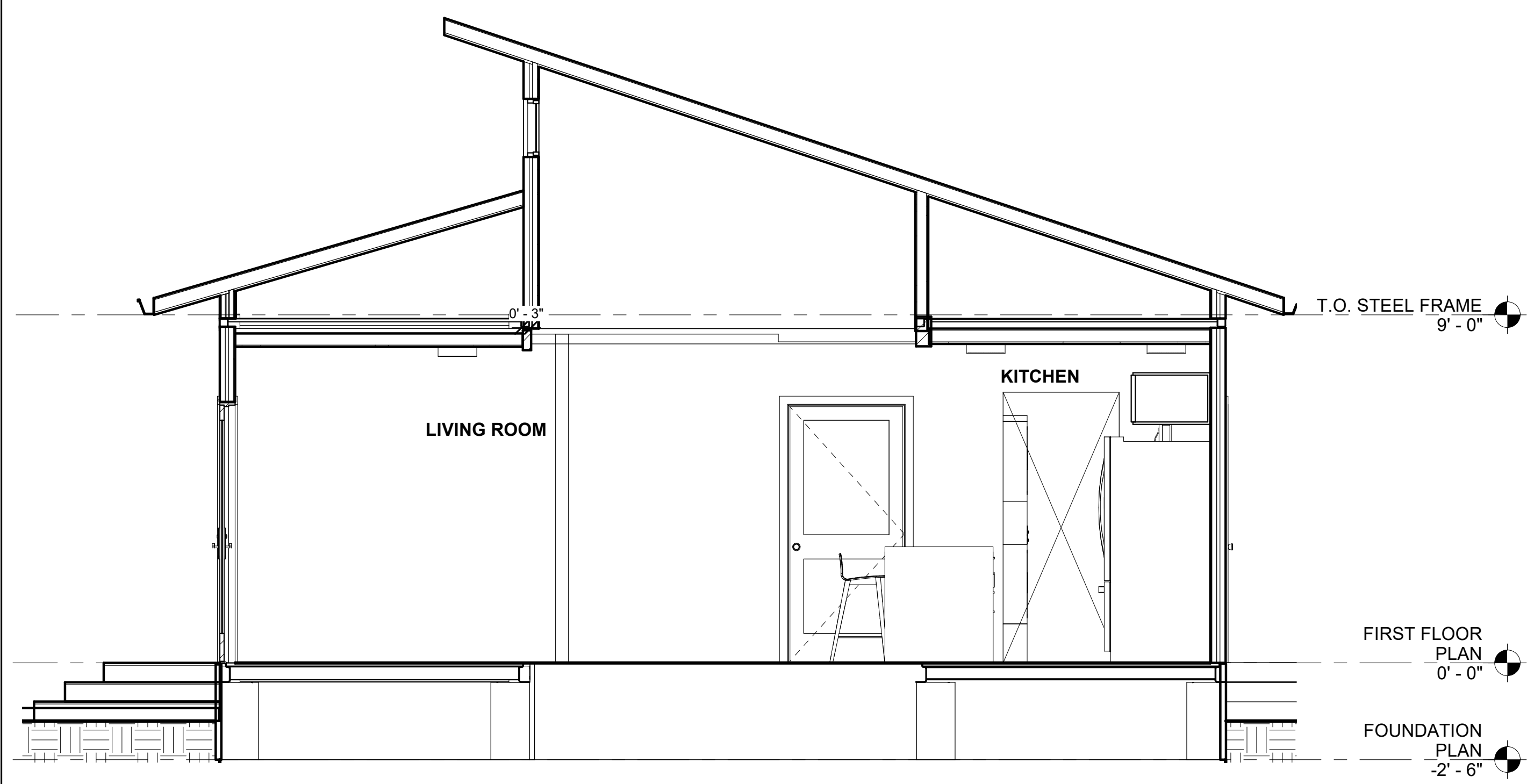
D3.1



1 FIRST FLOOR PLAN
 3/8" = 1'-0"

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② TRANSVERSE SECTION 2
3/8" = 1'-0"



① TRANSVERSE SECTION 1
3/8" = 1'-0"

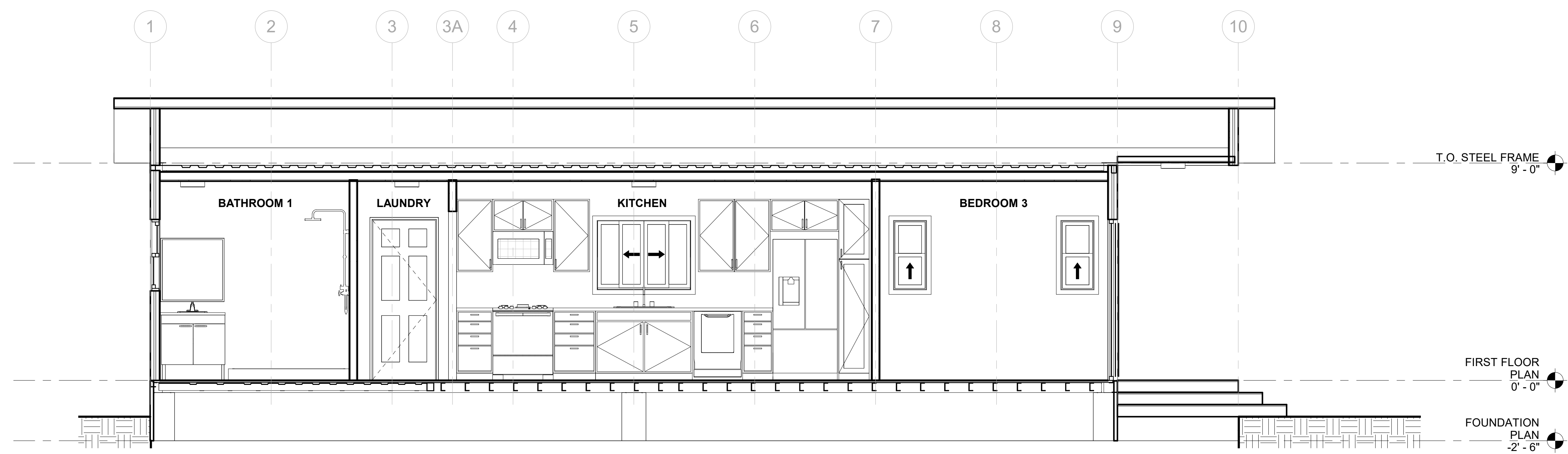
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SECTIONS

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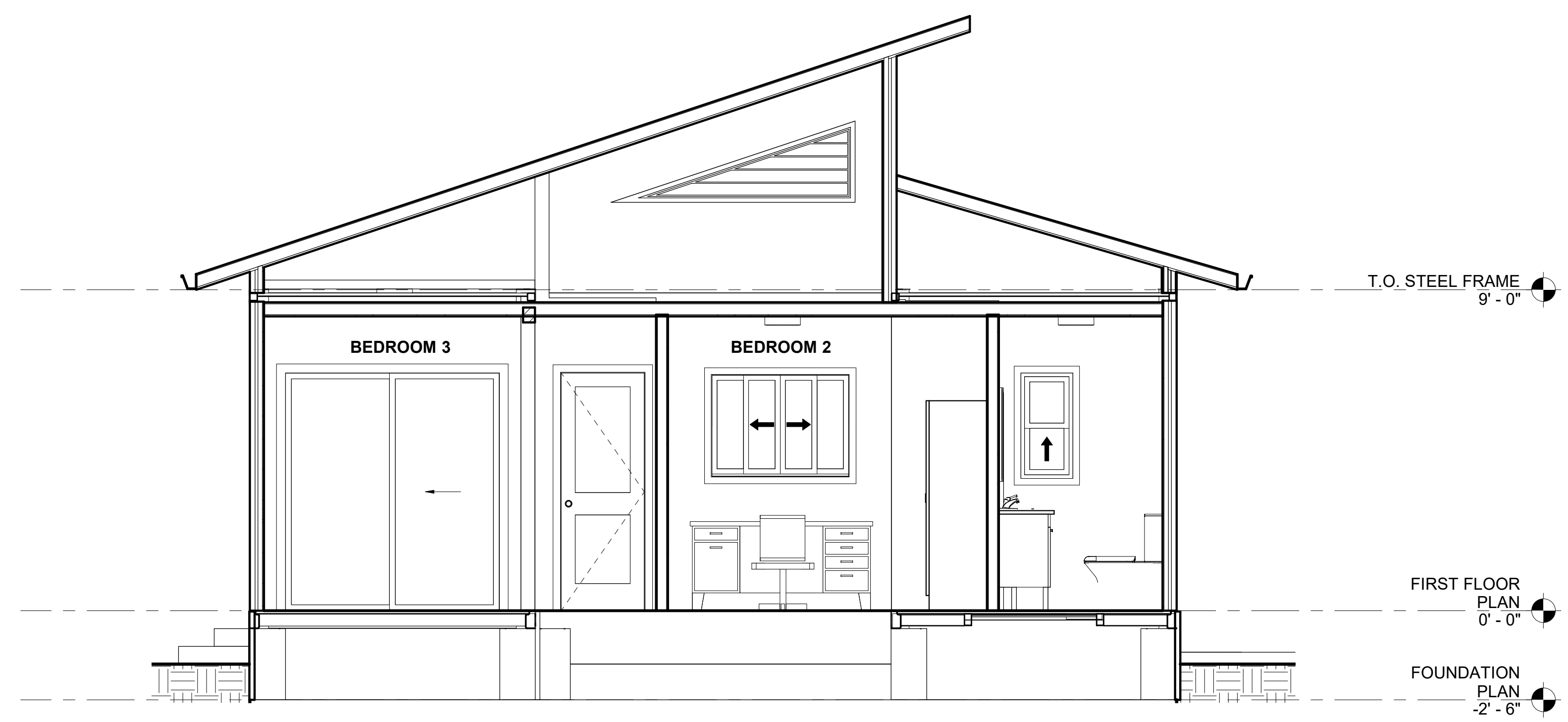


④ LONGITUDINAL SECTION 1
3/8" = 1'-0"

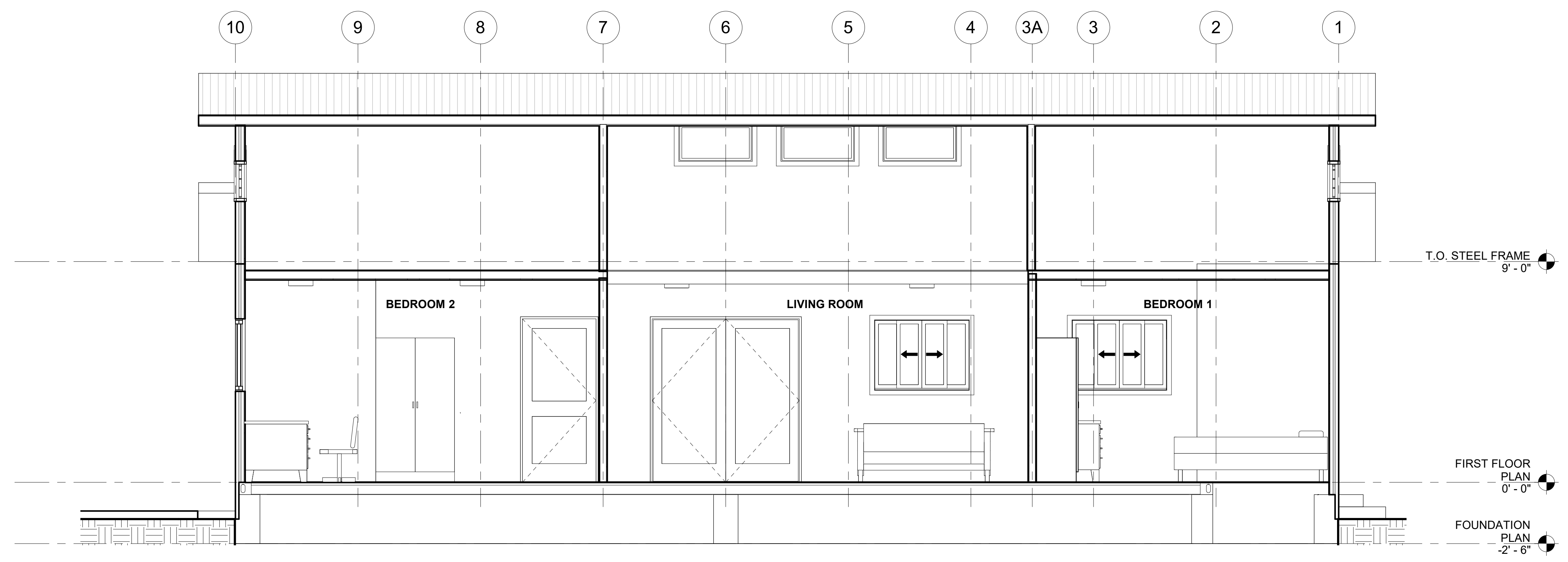


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D4.1



② TRANSVERSE SECTION 3
 3/8" = 1'-0"



① LONGITUDINAL SECTION 2
 3/8" = 1'-0"

SELF SUSTAINABLE SOLUTIONS

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 Spring Lake, NC 28390

SECTIONS

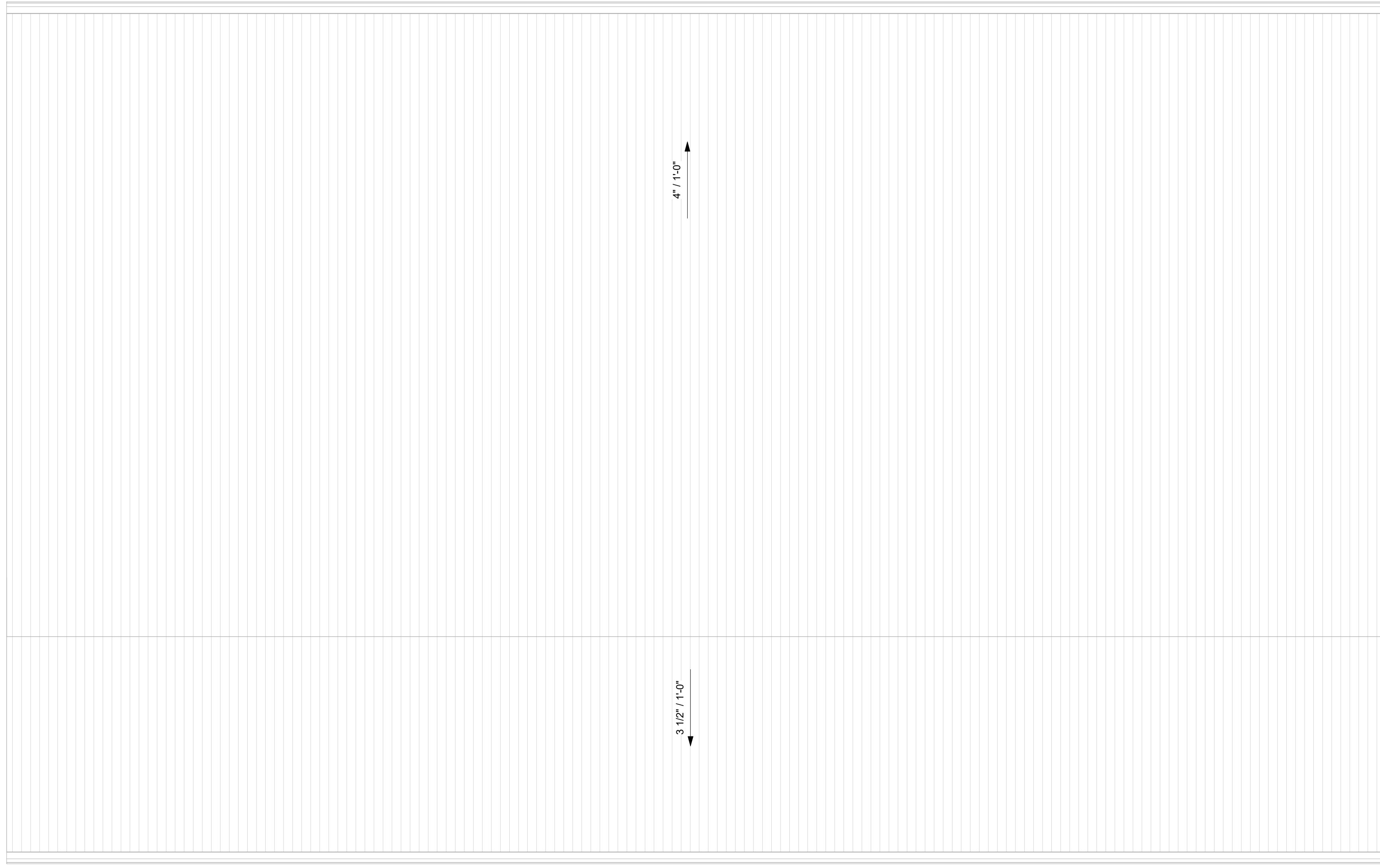
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D4.2



② ROOF PLAN
3/8" = 1'-0"

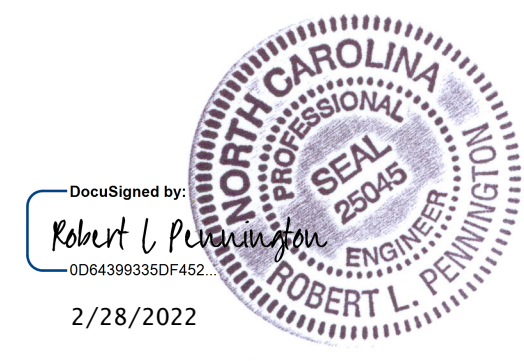
SELF SUSTAINABLE SOLUTIONS

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ROOF PLAN

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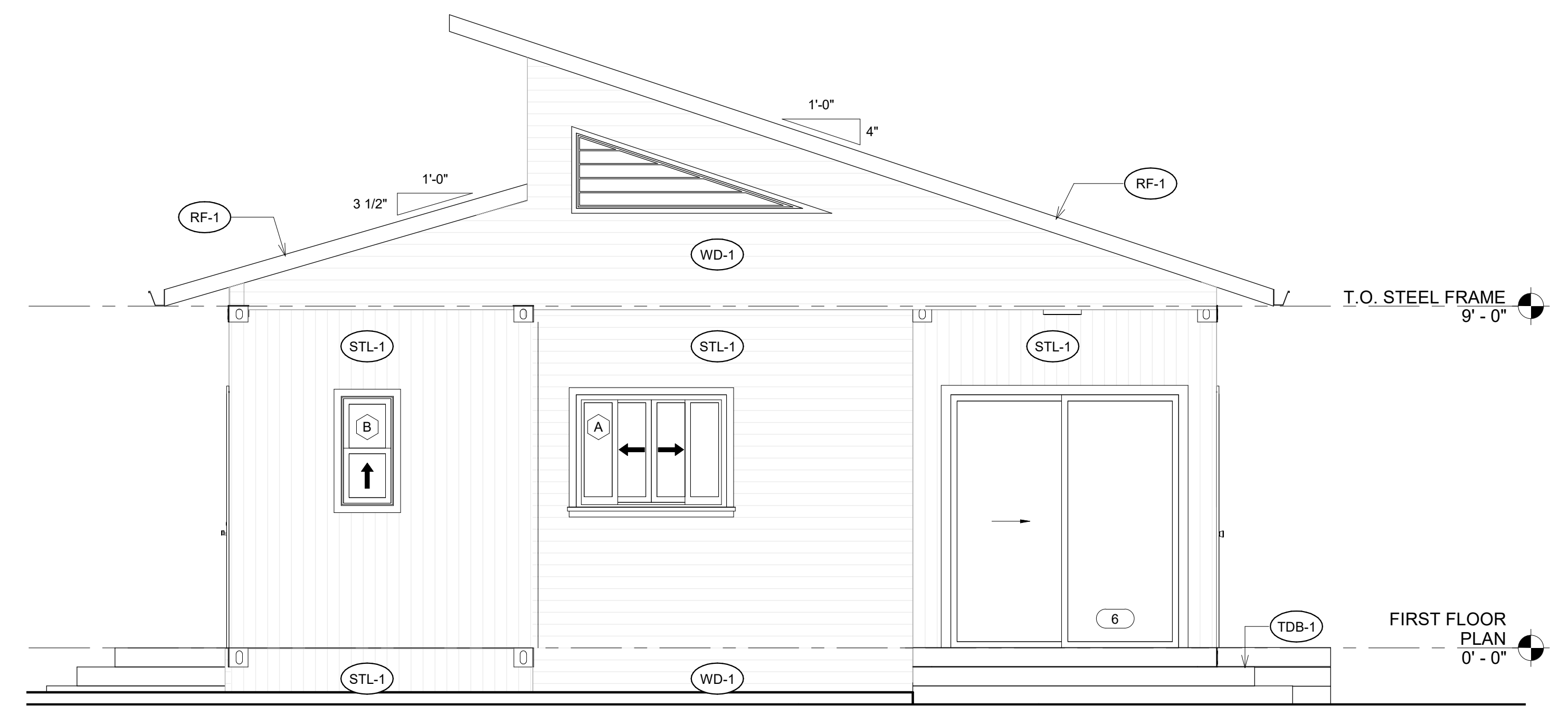
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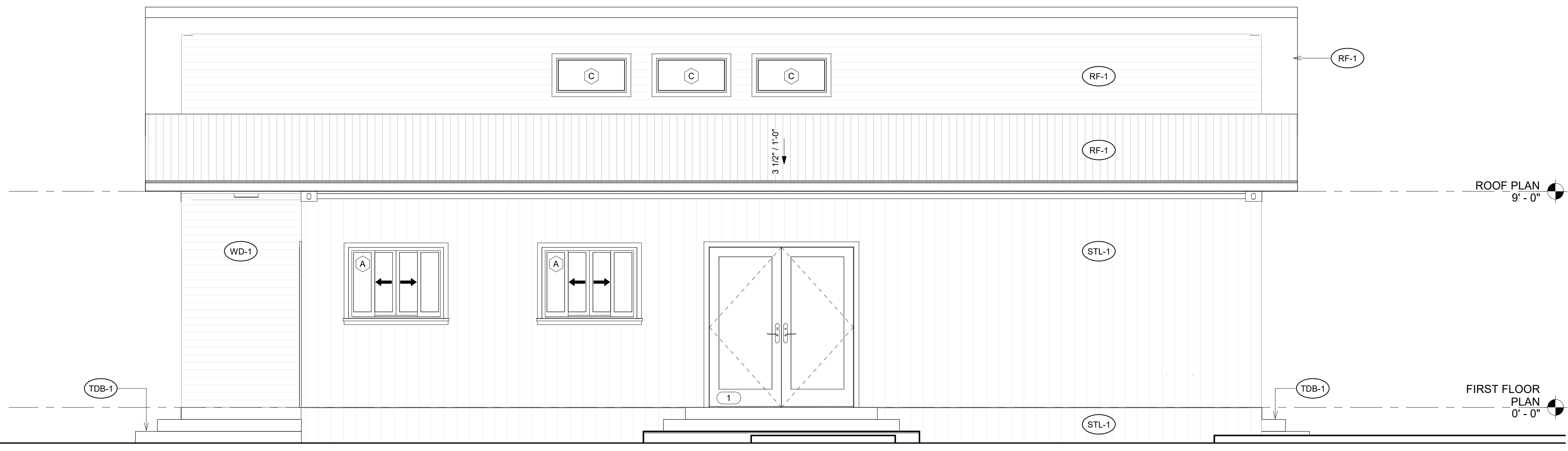
D5.1

MATERIAL	DESCRIPTION
(STL-1)	CORRUGATED STEEL
(WD-1)	T-11 BOARD SIDING
(TDB-1)	TREATED LUMBER DECK MATERIAL
(RF-1)	MILD STEEL PLATE (14 G) LASER CUT AND FORMED ROOF MATERIAL
(LAM-1)	LVT LAMINATE FLOOR

NOTE: ENGINEER NOTES SUPERSEDE GENERAL DESIGN NOTES



2 RIGHT
 3/8" = 1'-0"



1 FRONT
 3/8" = 1'-0"

SELF SUSTAINABLE SOLUTIONS

51 Appaloosa Dr.
 Spring Lake, NC 28390

EXTERIOR ELEVATIONS

REVISION	BY	Date

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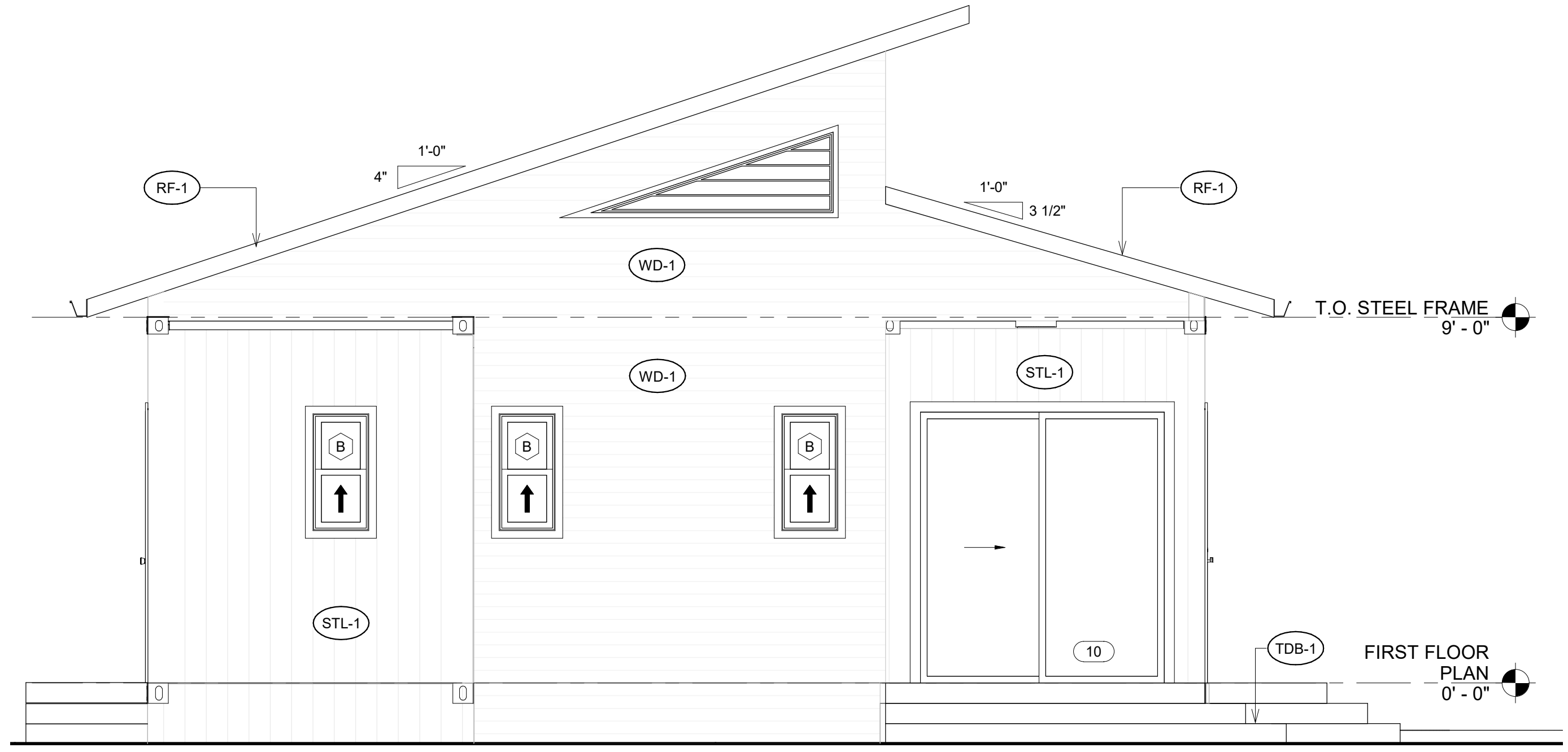


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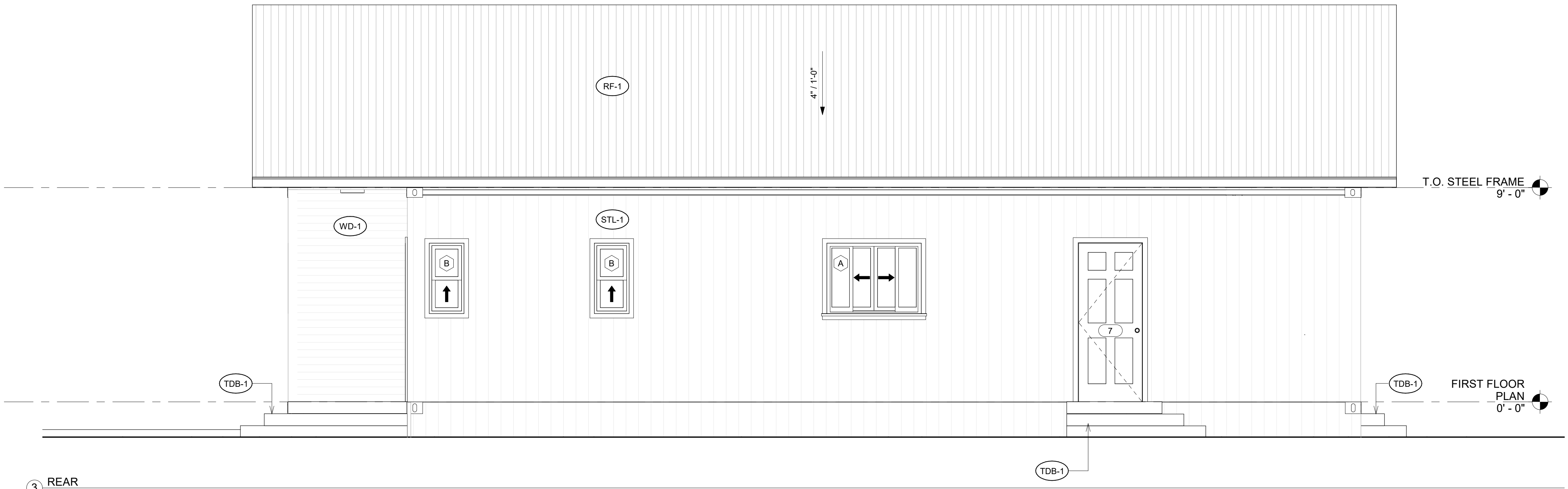
D6.1

MATERIAL	DESCRIPTION
(STL-1)	CORRUGATED STEEL
(WD-1)	T-11 BOARD SIDING
(TDB-1)	TREATED LUMBER DECK MATERIAL
(RF-1)	MILD STEEL PLATE (14 G) LASER CUT AND FORMED ROOF MATERIAL
(LAM-1)	LVT LAMINATE FLOOR

NOTE: ENGINEER NOTES SUPERSEDE GENERAL DESIGN NOTES



4 LEFT
 3/8" = 1'-0"



3 REAR
 3/8" = 1'-0"

SELF SUSTAINABLE SOLUTIONS

51 Appaloosa Dr.
 Spring Lake, NC 28390

EXTERIOR ELEVATIONS

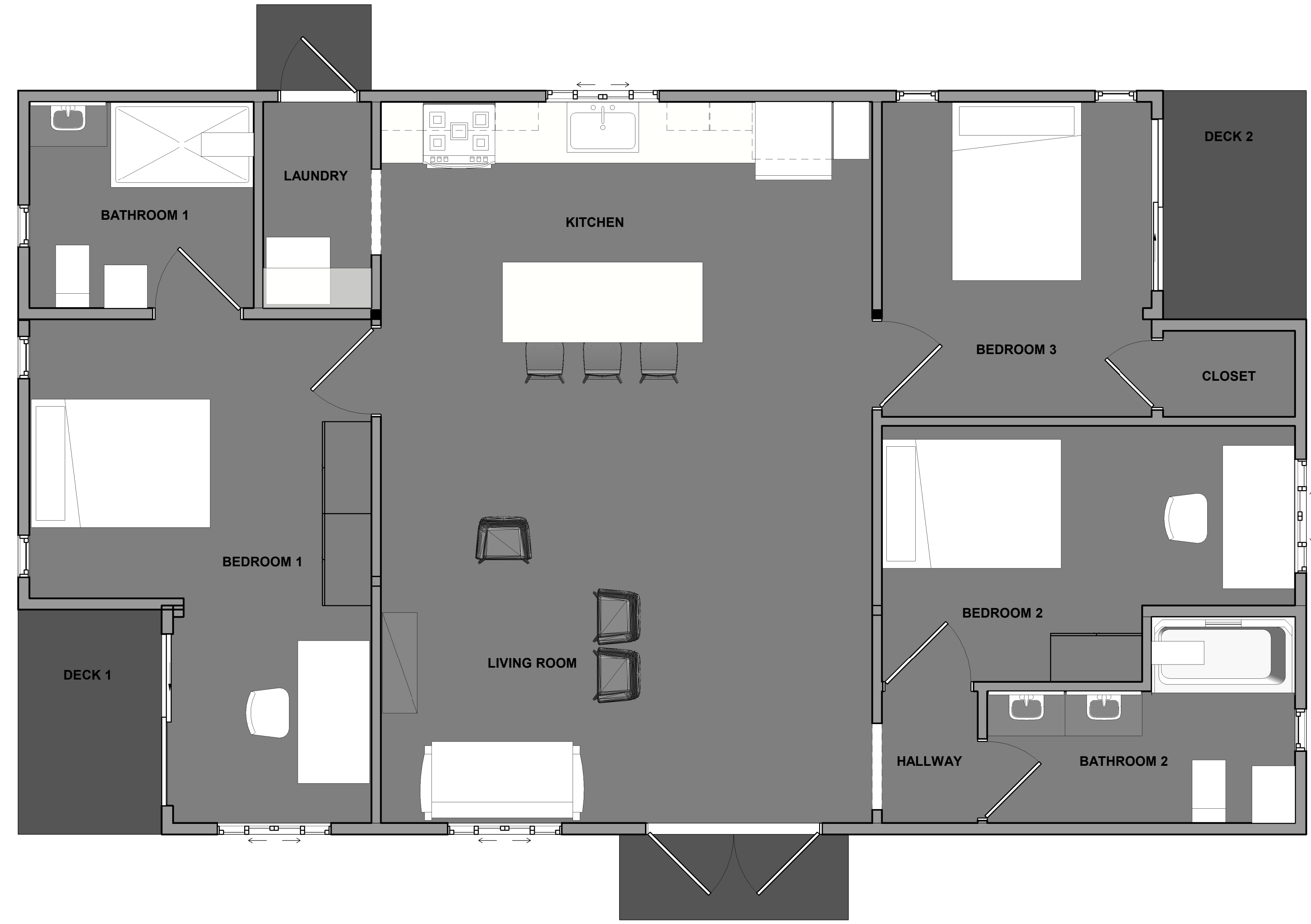
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D6.2



1 PRESENTATION PLAN
3/8" = 1'-0"

SELF SUSTAINABLE SOLUTIONS

51 Appaloosa Dr.
Spring Lake, NC 28390

PRESENTATION FLOOR PLAN

REVISION	BY	Date

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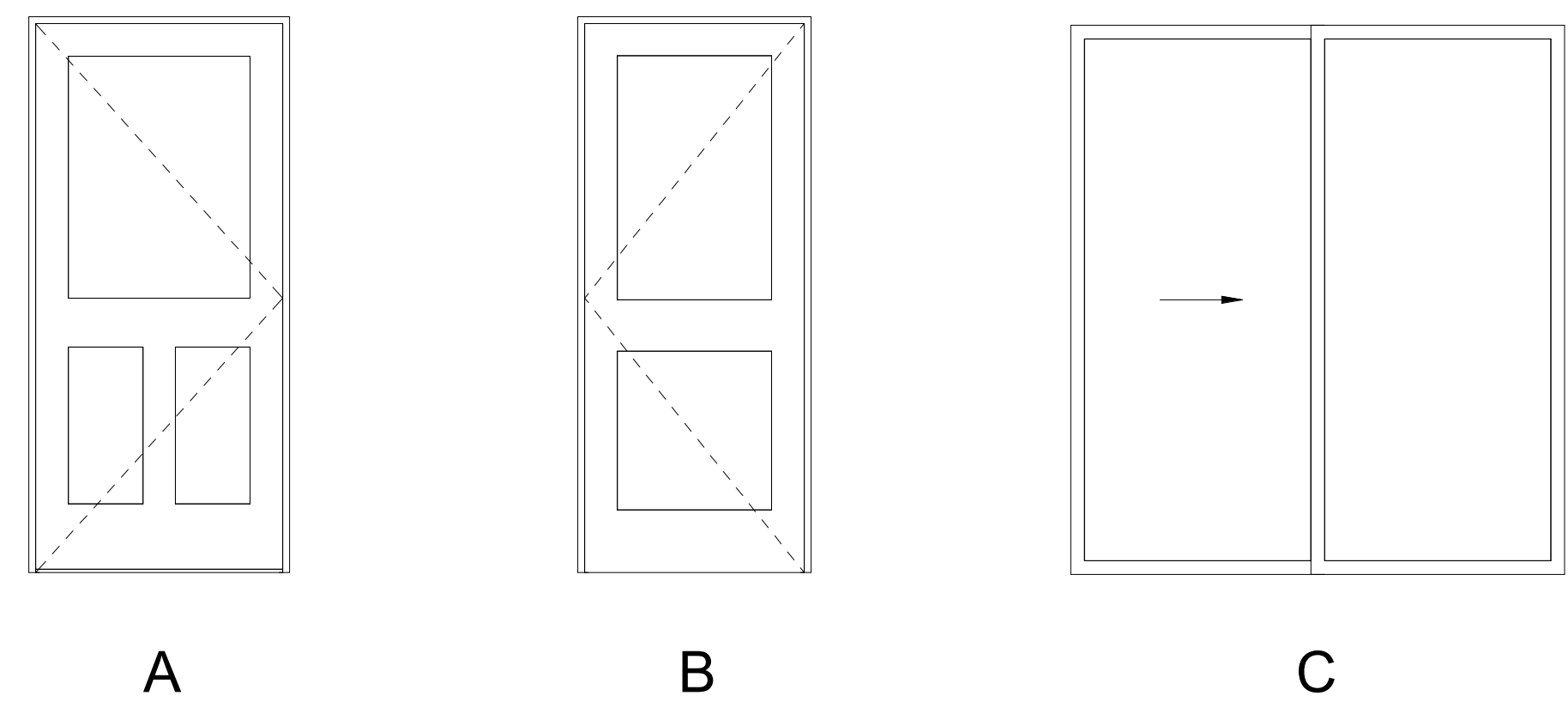
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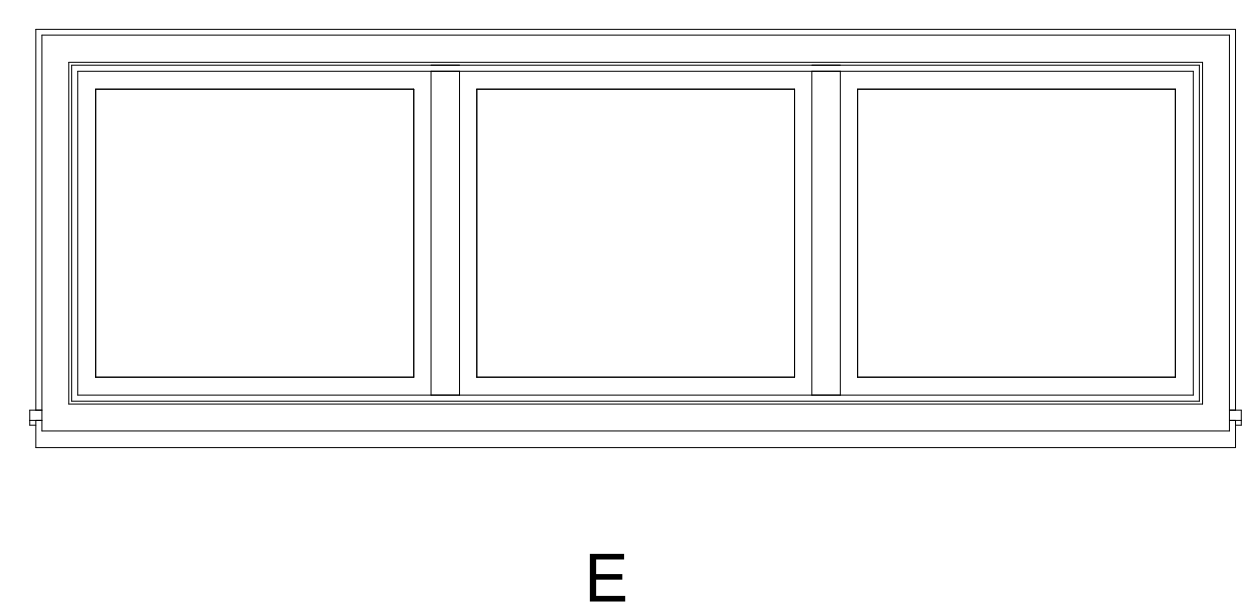
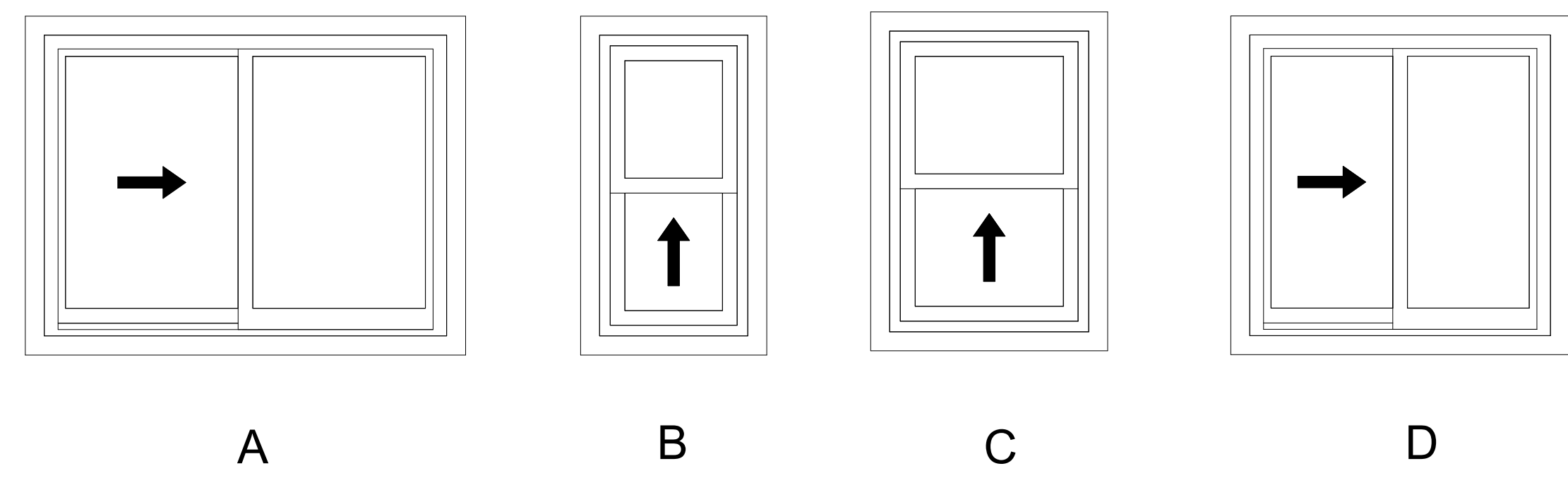
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D7.1

DOOR SCHEDULE						
Mark	Type Mark	Width	Height	Function	Type	Comments
1	A	3' - 0"	6' - 8"	Exterior	36" x 80"	ENTRY
2	B	2' - 8"	6' - 8"	Interior	32" x 80"	BATHROOM 2
3	B	3' - 0"	6' - 8"	Interior	36" x 80"	BEDROOM 2
4	B	3' - 0"	6' - 8"	Interior	36" x 80"	BEDROOM 3
5	B	3' - 0"	6' - 8"	Interior	36" x 80"	BEDROOM 1
6	B	3' - 0"	6' - 8"	Interior	36" x 80"	BATHROOM 1
7	B	2' - 8"	6' - 8"	Exterior	32" x 80"	REAR
8	C	6' - 0"	6' - 8"	Exterior	72" x 80"	DECK



WINDOW SCHEDULE							
Type Mark	Type	Width	Height	Operation	Sill Height	Head Height	Comments
A	48" x 36"	3' - 11 1/2"	2' - 11 1/2"	2-Lite Slider	3' - 8"	6' - 7 1/2"	LIVING ROOM
A	48" x 36"	3' - 11 1/2"	2' - 11 1/2"	2-Lite Slider	3' - 8"	6' - 7 1/2"	BEDROOM 1
A	48" x 36"	3' - 11 1/2"	2' - 11 1/2"	2-Lite Slider	3' - 8"	6' - 7 1/2"	BEDROOM 2
A	48" x 36"	3' - 11 1/2"	2' - 11 1/2"	2-Lite Slider	3' - 8"	6' - 7 1/2"	BEDROOM 3
B	18" x 36"	1' - 5 1/2"	2' - 11 1/2"	Single Hung	3' - 8"	6' - 7 1/2"	BEDROOM 3
B	18" x 36"	1' - 5 1/2"	2' - 11 1/2"	Single Hung	3' - 8"	6' - 7 1/2"	BEDROOM 3
C	24" x 36"	1' - 11 1/2"	2' - 11 1/2"	Single Hung	3' - 8"	6' - 7 1/2"	BATHROOM 1
C	24" x 36"	1' - 11 1/2"	2' - 11 1/2"	Single Hung	3' - 8"	6' - 7 1/2"	BATHROOM 2
D	36" x 36"	2' - 11 1/2"	2' - 11 1/2"	Slider Window	3' - 8"	6' - 7 1/2"	KITCHEN
E	96" x 30"	7' - 11 1/2"	2' - 5 1/2"	Clerestory	12' - 6"	14' - 11 1/2"	LIVING ROOM



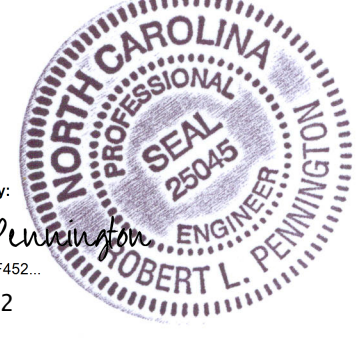
ENERGY EFFICIENCY
TABLE N1102.1.2 (R402.1.2)
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^{b,d}	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{b, k}	CEILING R-VALUE ^m	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^e	FLOOR R-VALUE	BASEMENT ^{n,o} WALL R-VALUE	SLAB ^d R-VALUE & DEPTH	CRAWL SPACE ^c WALL R-VALUE
3	0.35	0.55	0.30	38 or 30ci	15 or 13 + 2.5 ^h	5/13 or 5/10ci	19	5/13 ^f	0	5/13
4	0.35	0.55	0.30	38 or 30ci	15 or 13 + 2.5 ^h	5/13 or 5/10ci	19	10/15	10	10/15
5	0.35	0.55	NR	38 or 30ci	19 ^a or 13 + 2.5 ^h or 15 + 3 ^h	13/17 or 13/12.5 ci	30 ^g	10/15	10	10/19

2018 NORTH CAROLINA RESIDENTIAL CODE - CHAPTER 11
 *** GLAZING VALUE MUST MEET CLIMATE ZONE 3

WINDOW NOTES

1. WINDOWS TO BE PREFINISHED DOUBLE PANE INSULATED U.N.O. AND GLAZING TO MEET MIN. CODE PER TABLE N1102.1.2 (R402.1.2) BELOW CLIMATE ZONE 3
2. ALL WINDOWS TO MEET EGRESS MIN. CODE R310.1. 5.7 SF OPENING.
3. EXTERIOR TRIM TO BE INTEGRAL TRIM PROVIDED WITH WINDOW BY MFR UNLESS SHOWN OTHERWISE ON ELEVATION.
4. METAL FLASHING ABOVE ALL WINDOW HEAD AND SILL. EACH MANUFACTURER MAY VARY W/ FLASHING TYPE.
5. SELF ADHERED FLASHING AROUND JAMB AND SILL OF WINDOW PER MANUFACTURER RECOMMENDATION.

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 Spring Lake, NC 28390

DOOR & WINDOW SCHEDULES

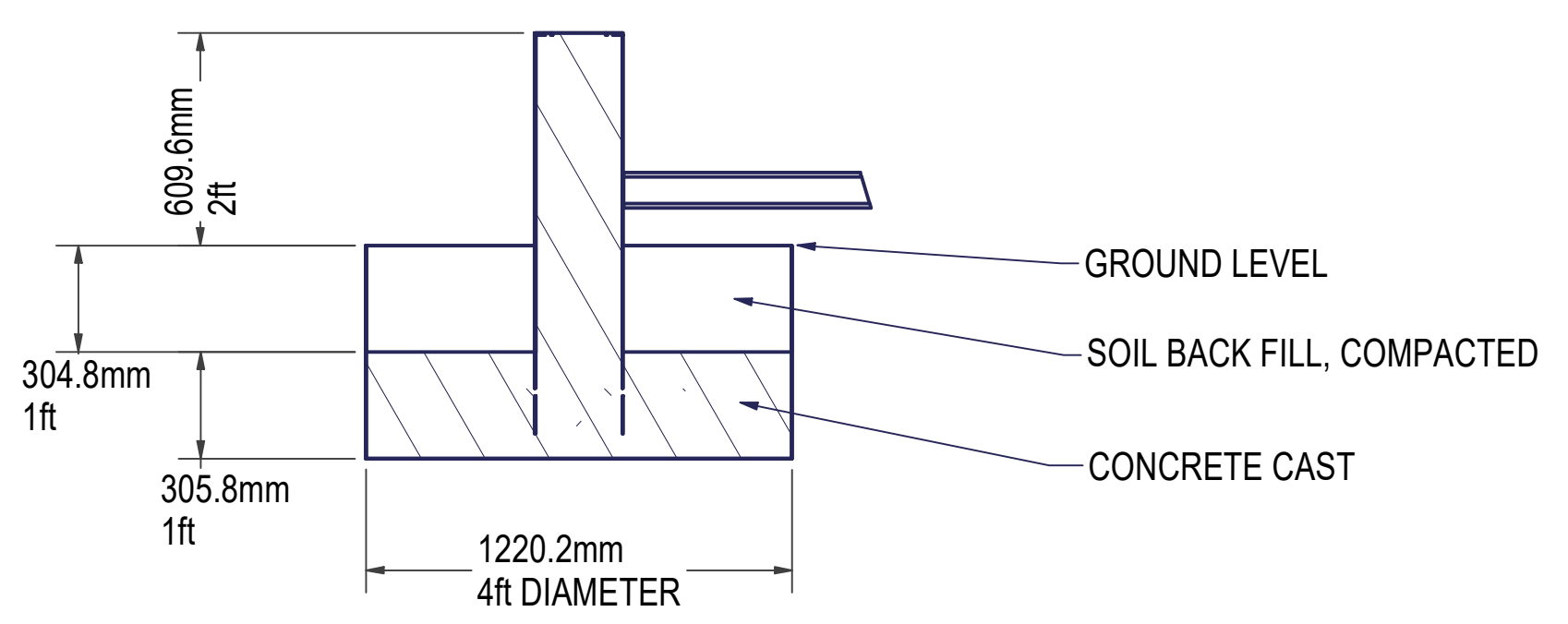
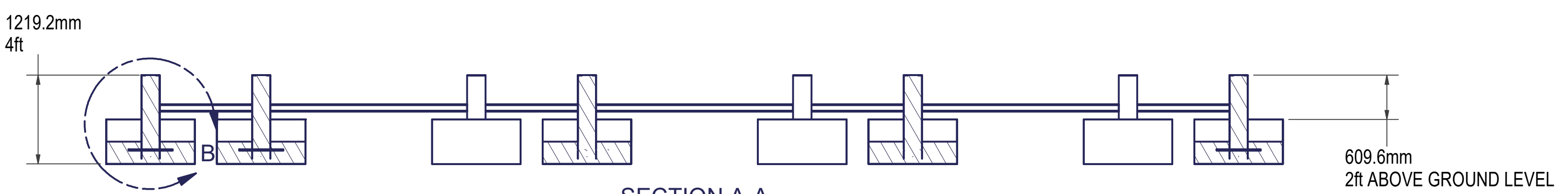
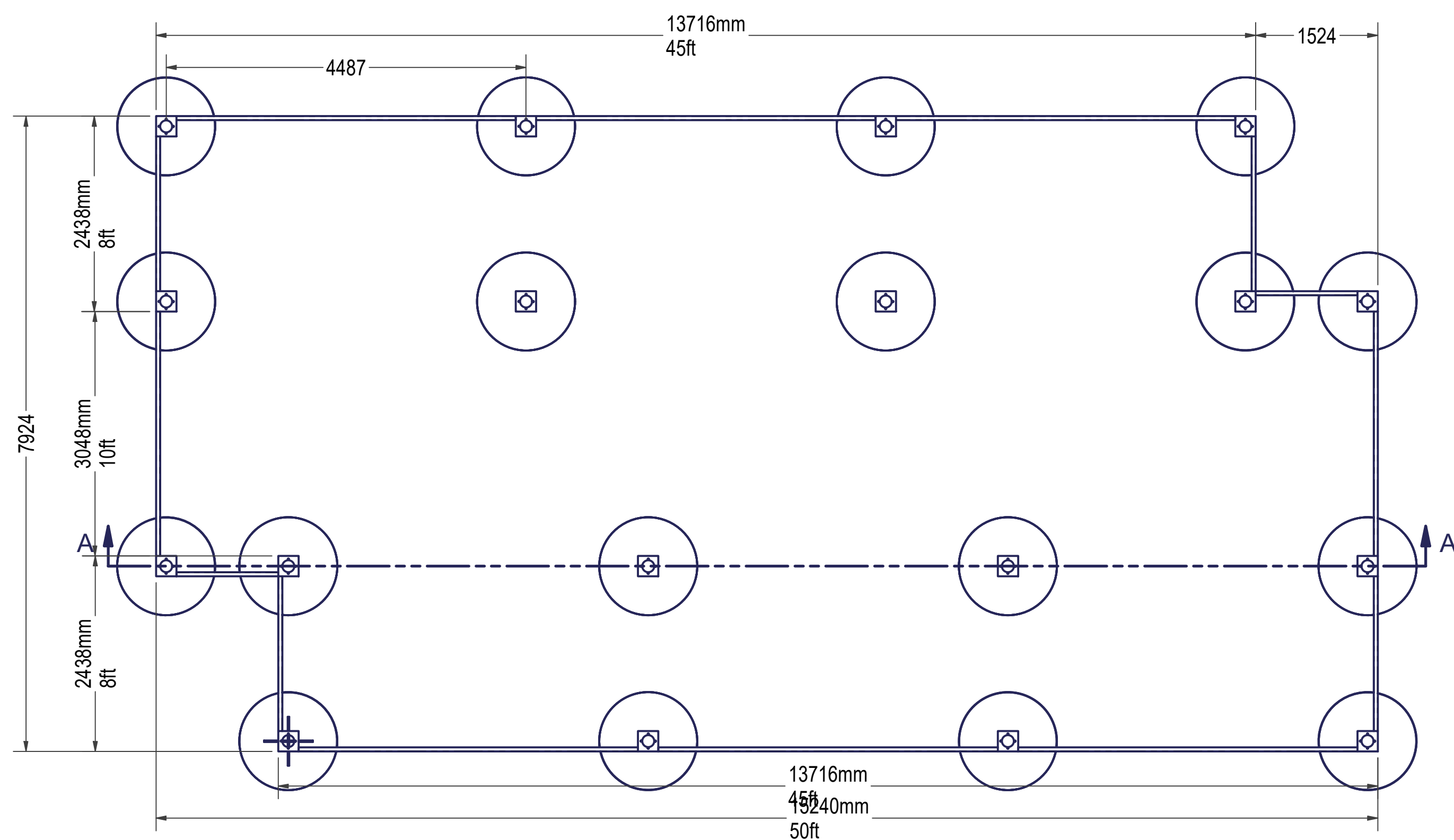
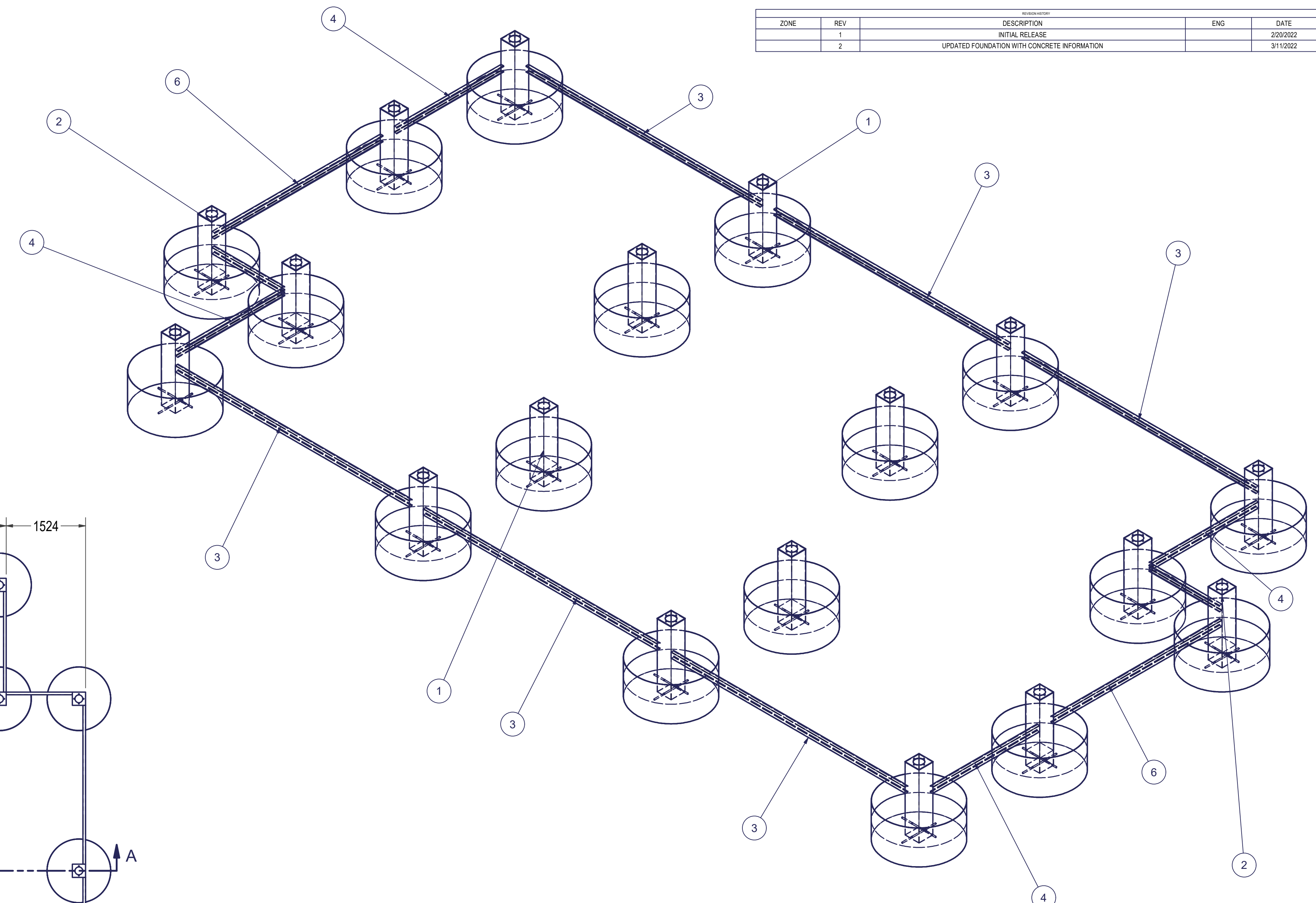
REVISION	BY	Date
REV 1	RLP	04/15/2022

Date: 04-14-2022
 Scale: As indicated
 Checked by: MMP
 Project number: 22122

D7.1

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	2	F_FOUND_49FT		FOUNDATION LAYOUT 49FT SHARING
2	2	F_PILLAR_ASSY		FOUNDATION PILLAR SINGLE
3	6	F_CHANNEL_F-1		CHANNEL 2"x4"
4	4	F_CHANNEL_F-2		CHANNEL 2"x4"
6	2	F_CHANNEL_F-4		CHANNEL 2"x4"
7	1	F_CHICKADEE_HOLE_LAYOUT		EXCAVATION DIMENSIONS
8	1	F_CHICKADEE_CONCRETE		CONCRETE VOLUMETRIC CAST

ZONE	REV	DESCRIPTION	ENG	DATE
	1	INITIAL RELEASE		2/20/2022
	2	UPDATED FOUNDATION WITH CONCRETE INFORMATION		3/11/2022



ORIGINAL SCALE UNLESS OTHERWISE STATED

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MATERIAL	
THICK	
MASS	N/A
VENDOR	INTEGRATOR
STOCK #	
DRAWN	Dirk Genis
DATE	2/20/2022

Robert L. Pennington PE
7629 Mallow Road
Wilmington, NC 28411
Email: robert@RLPPE.com
Phone: 910-520-0278

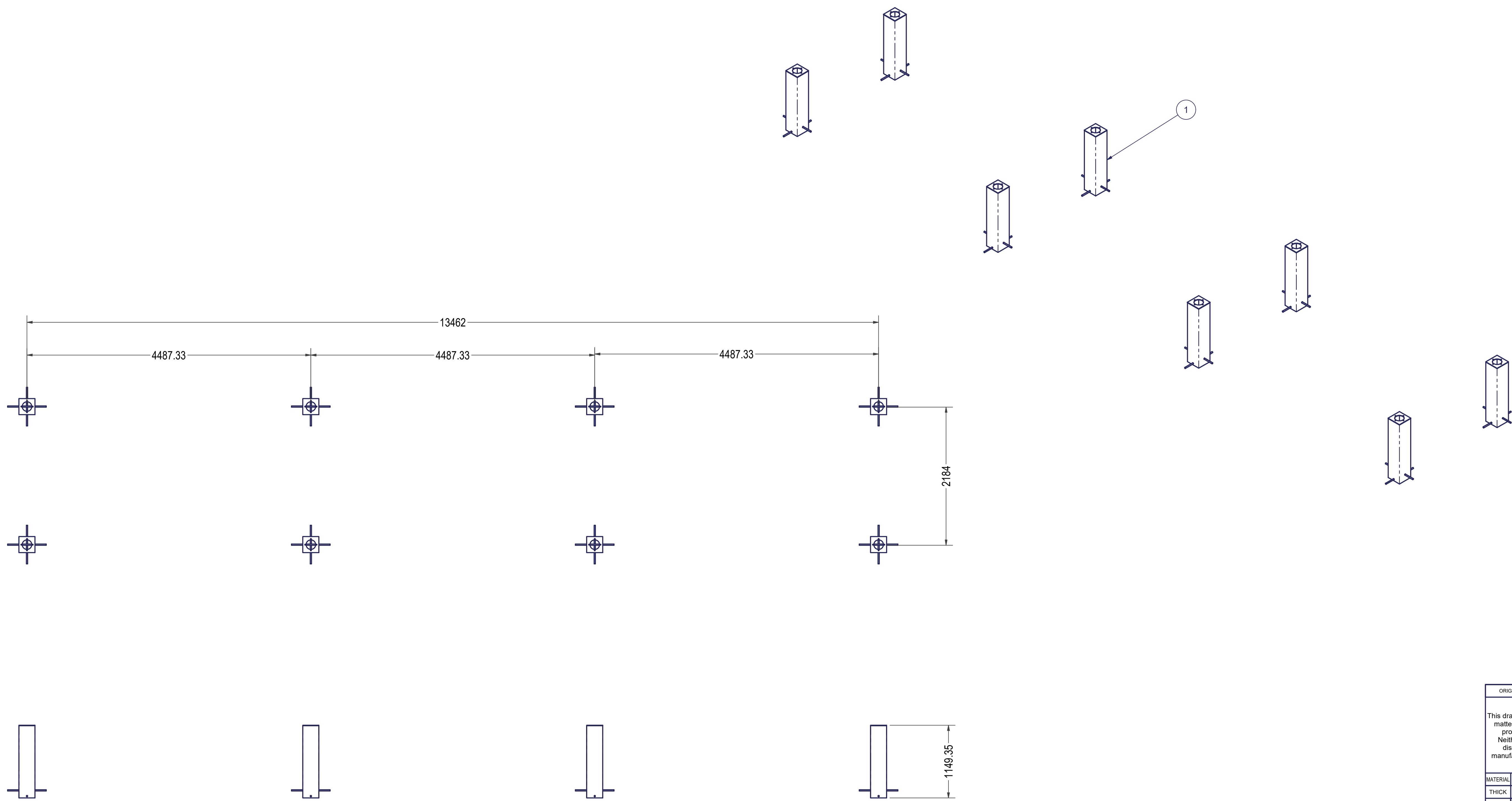
3/13/2022

SELF SUSTAINABLE SOLUTIONS

TITLE: FOUNDATION LAYOUT CHICKADEE

<p>FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS</p>	<p>This print is shared on a confidential basis subject to return upon demand by SSS and nothing herein may be reproduced, used or disclosed in whole or in part without the prior written permission of Osprey.</p>	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS</p>		<p>REMOVE ALL SHARP EDGES AND BURRS</p>																	
		<p>GENERAL TOLERANCES LINEAR DIMENSIONS</p>	<p>DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK</p>																		
<table border="1"> <tr> <th>LINEAR</th> <th>0.5</th> <th>3</th> <th>10</th> <th>30</th> <th>100</th> <th>300</th> <th>1000</th> <th>3000</th> </tr> <tr> <td>±0.1</td> <td>±0.1</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> <td>±1.2</td> <td>±2.0</td> <td></td> </tr> </table>	LINEAR	0.5	3	10	30	100	300	1000	3000	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0				<p>DRAWING NUMBER: F_CHICKADEE LAYOUT</p> <p>SHEET 1 OF 10 SIZE: B REVISION: 2</p>
LINEAR	0.5	3	10	30	100	300	1000	3000													
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0														

BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	F_PILLAR ASSY	FOUNDATION PILLAR SINGLE



DocuSigned by:
Robert L. Pennington
 00843963350F452
 3/13/2022

ROBERT L. PENNINGTON
 PROFESSIONAL ENGINEER
 SEAL 25045
 NORTH CAROLINA
 PROFESSIONAL ENGINEER

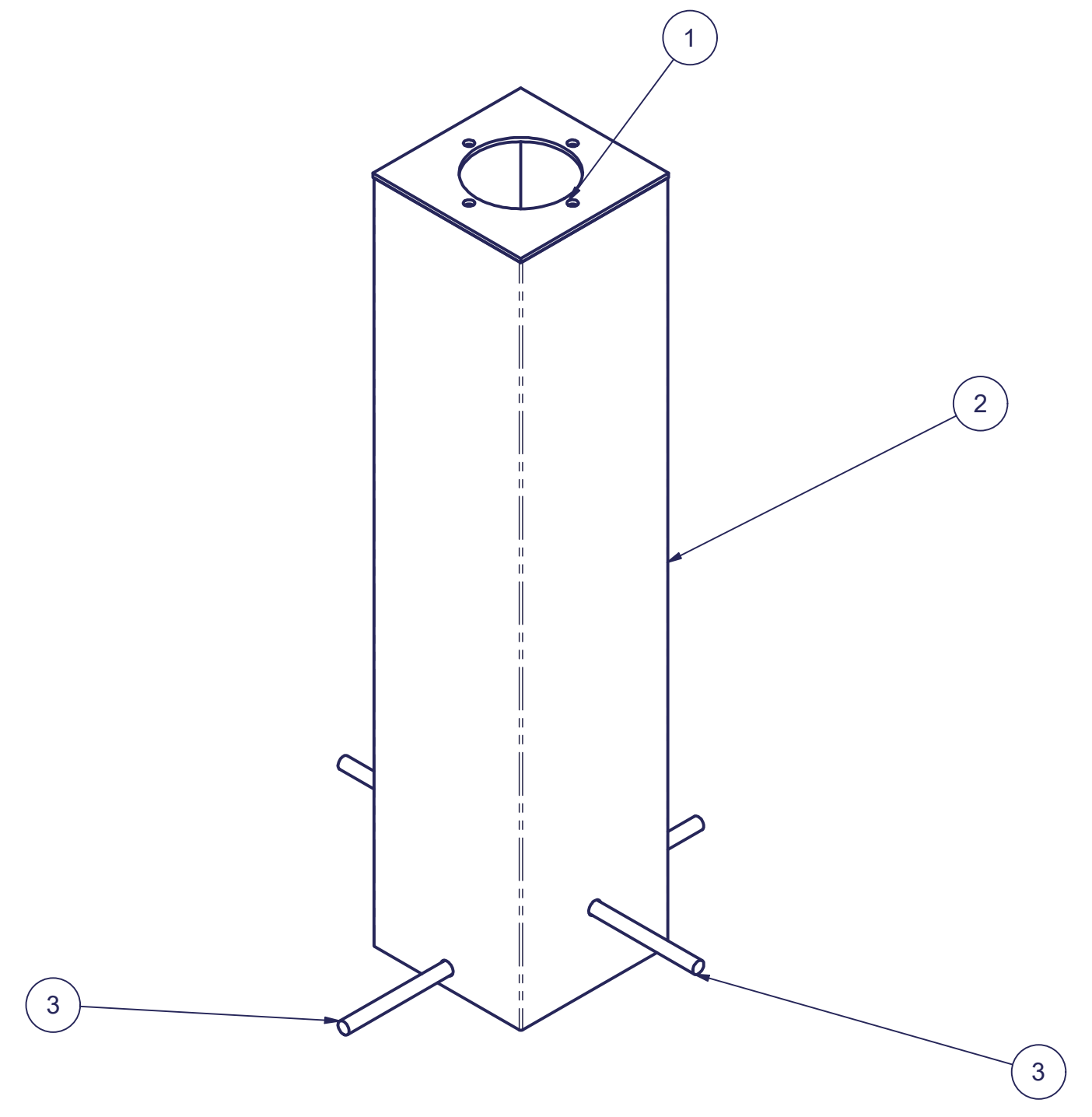
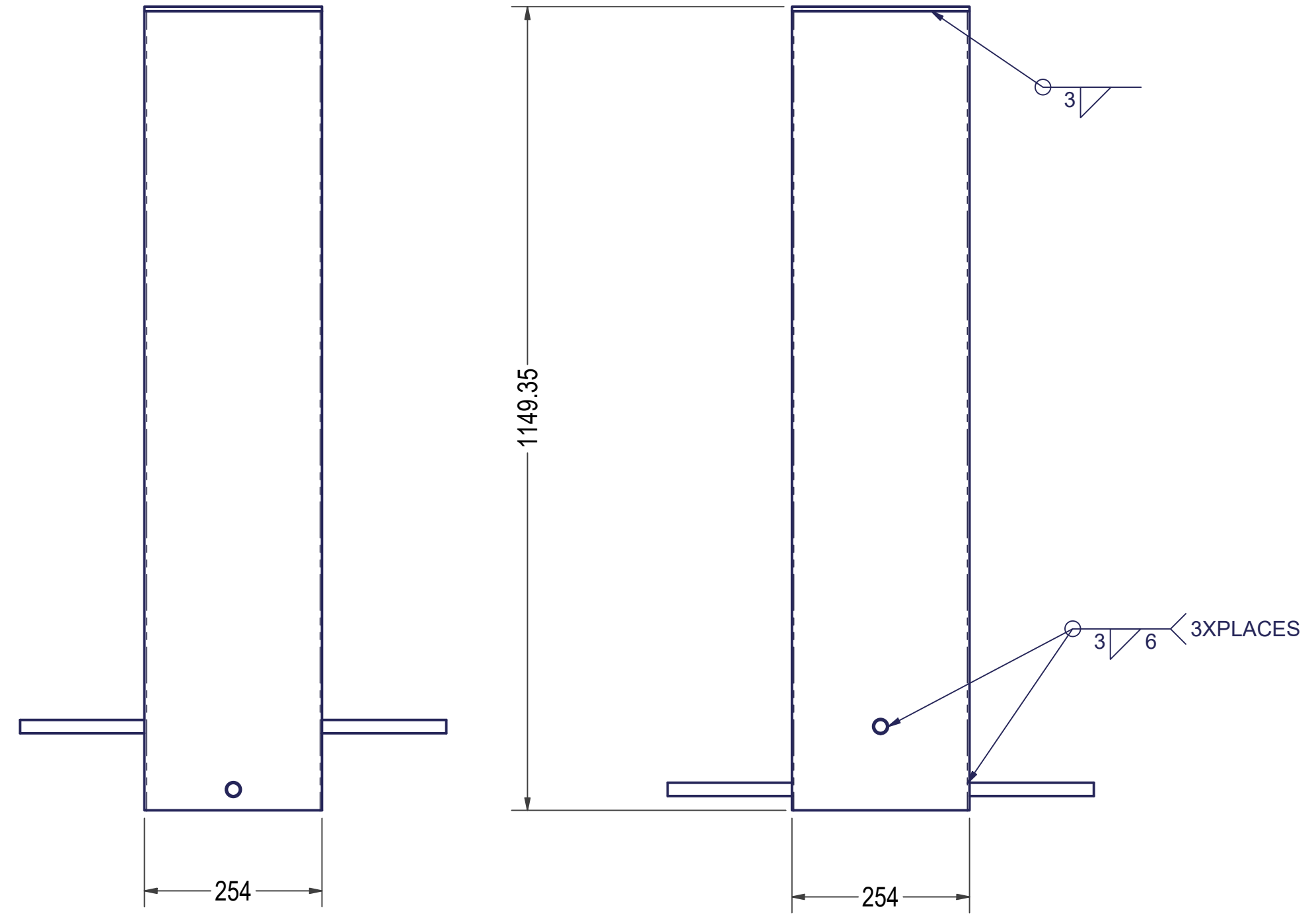
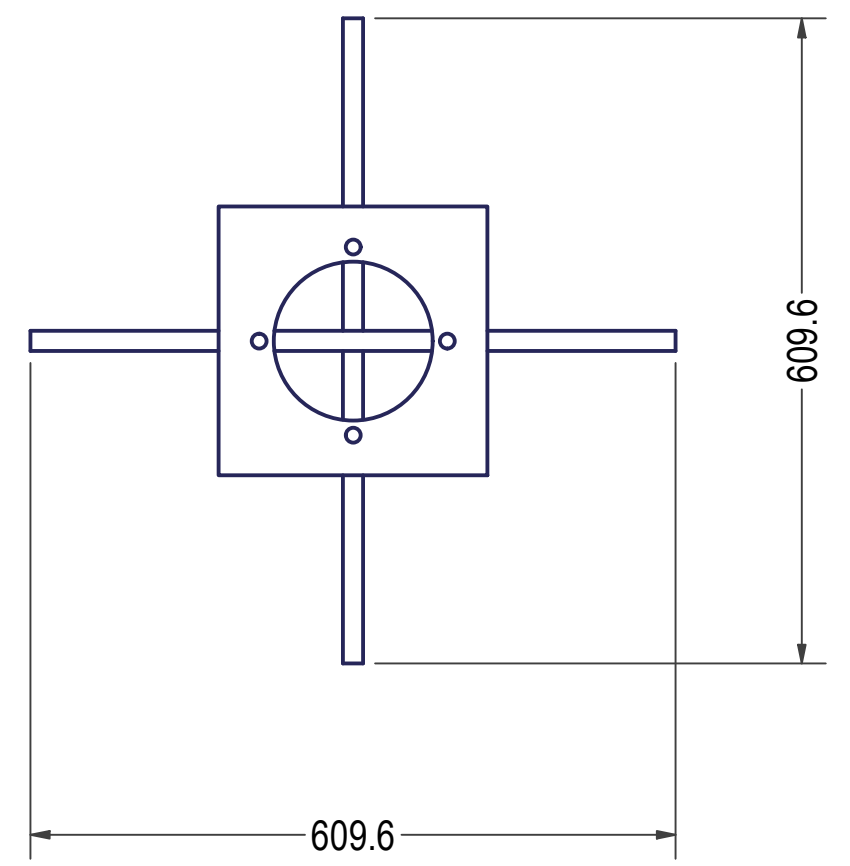
Robert L. Pennington PE
 7629 Mallow Road
 Wilmington, NC 28411
 Email: robert@RLPPE.com
 Phone: 910-520-0278

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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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LINEAR	0.5	3	8	30	120	400	1000	2000	SHEET 2 OF 10		SIZE: B
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	REVISION: 2			

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PLATE BASE FOUNDATION	BASE PLATE
2	1	TUBE PILLAR	TUBE PILLAR
3	2	REBAR PILLAR SECTION	RUBAR #6 (Ø.75", 19MM)



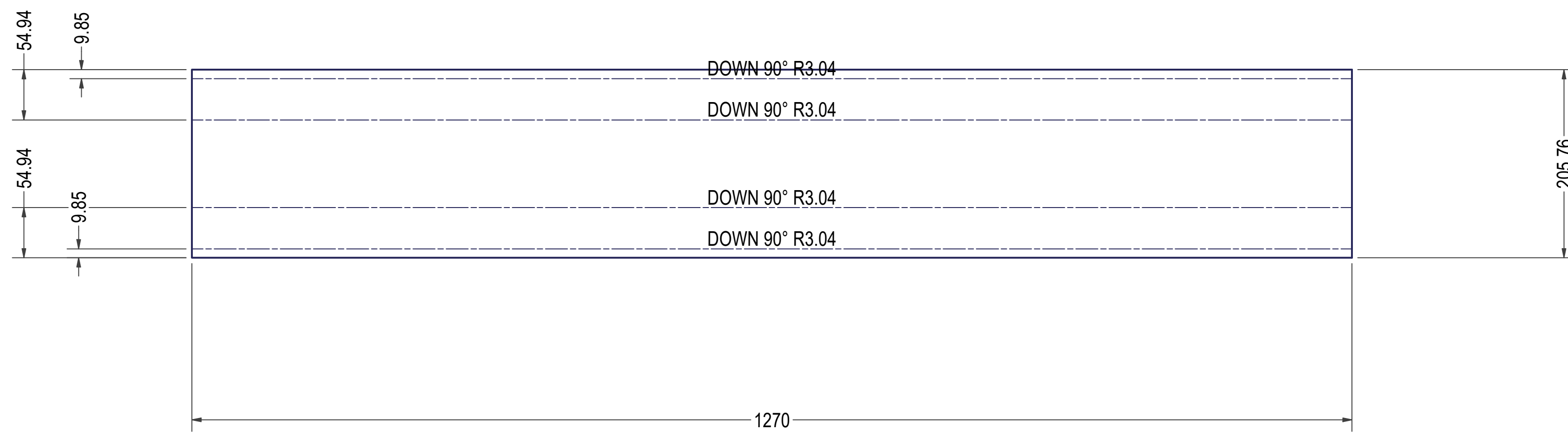
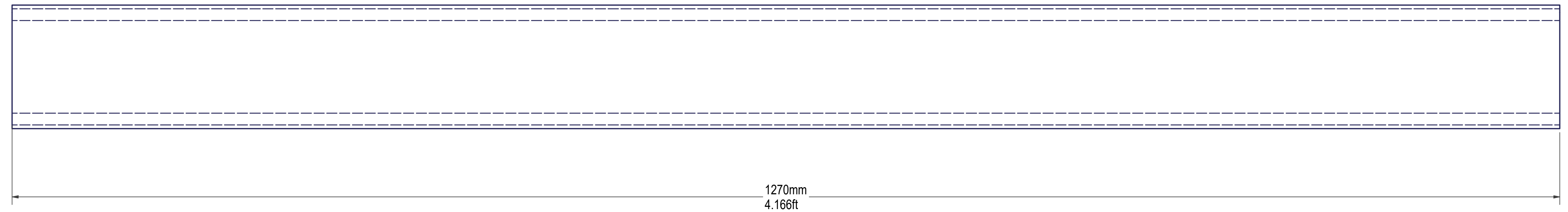
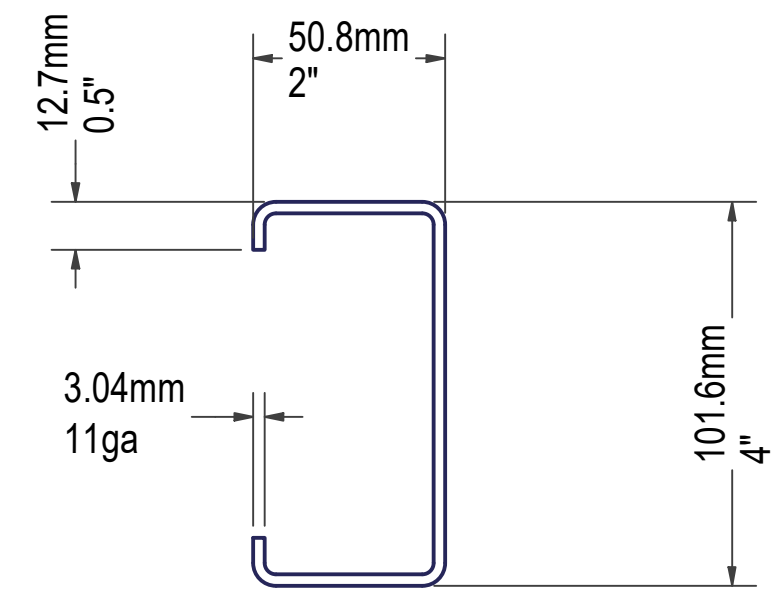
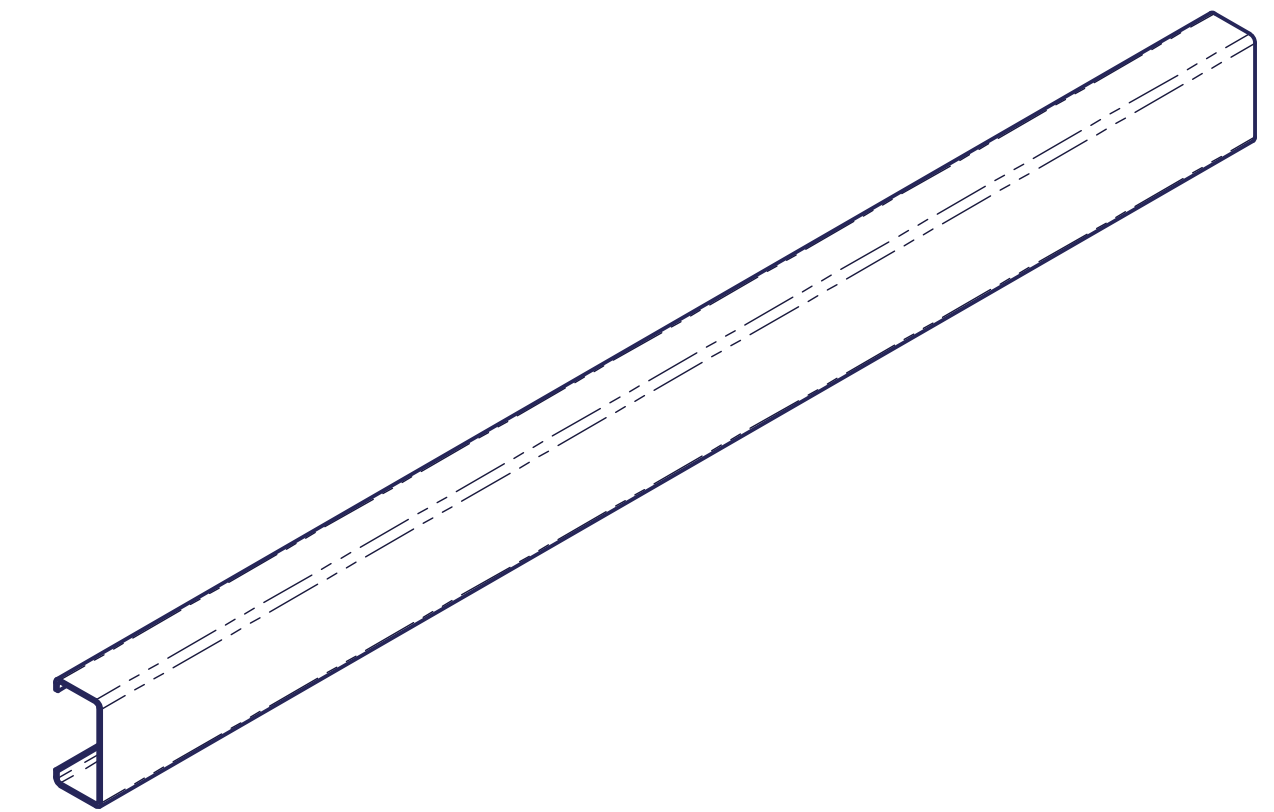
DocuSigned by:
Robert L. Pennington
 3/13/2022
 NORTH CAROLINA PROFESSIONAL SEAL
 ROBERT L. PENNINGTON, ENGINEER
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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	DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY	

TITLE
 FOUNDATION PILLAR SINGLE



DXF FILE: CHANNEL F-3_1

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 0643983350F452
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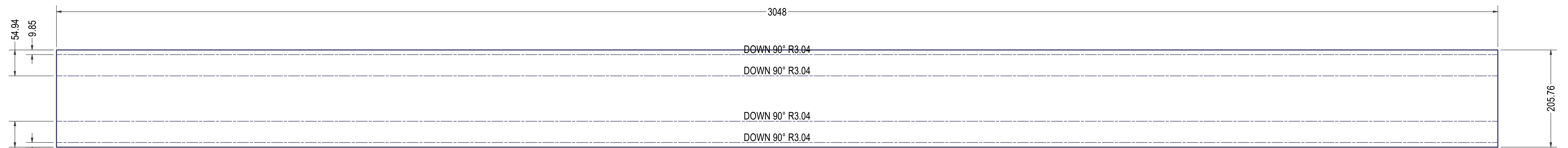
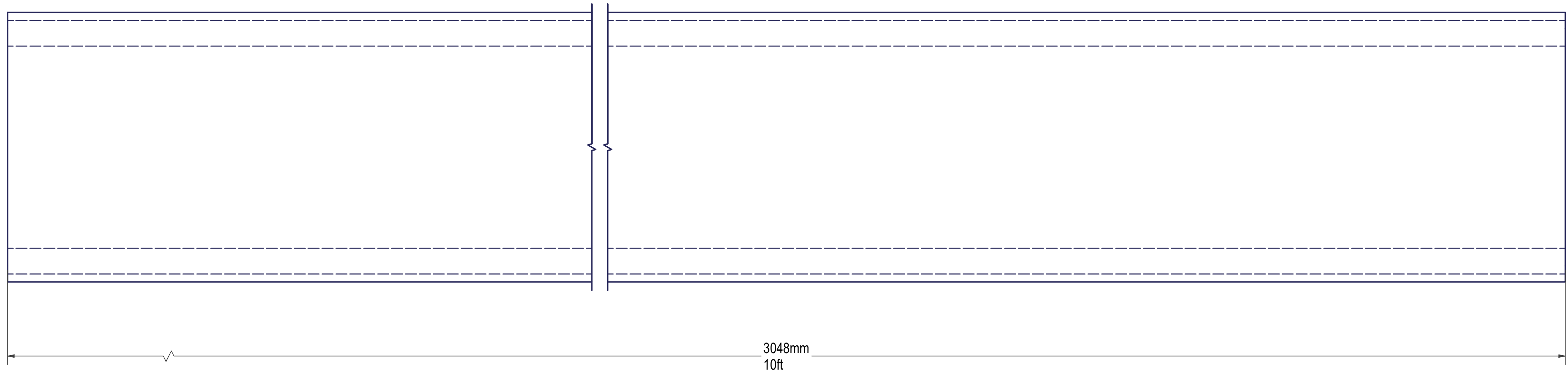
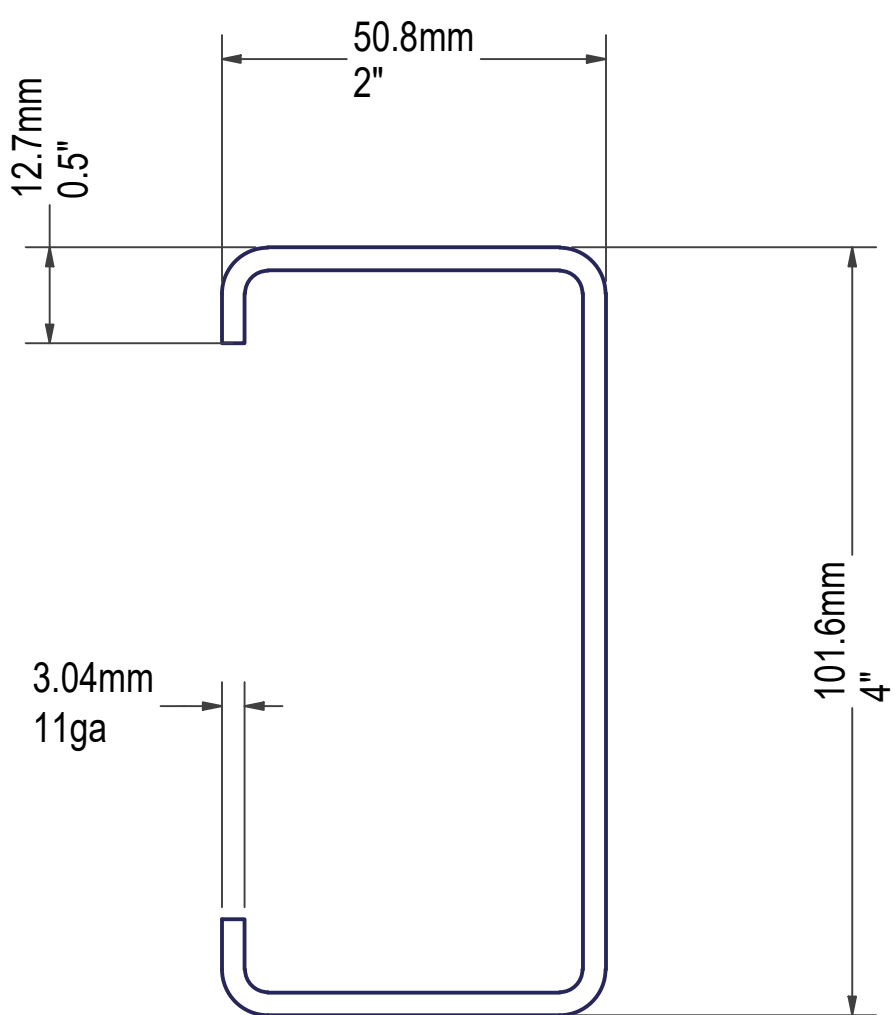
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
 CHANNEL 2"x4"

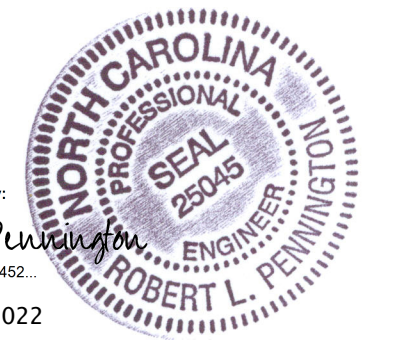
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		GENERAL TOLERANCES LINEAR DIMENSIONS DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK			



DXF FILE: CHANNEL F-4_1

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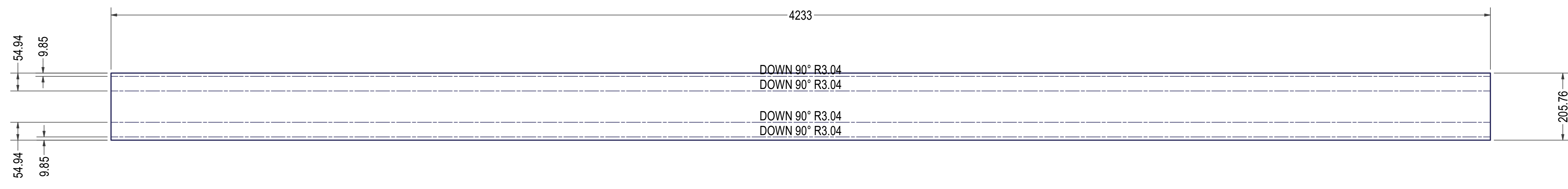
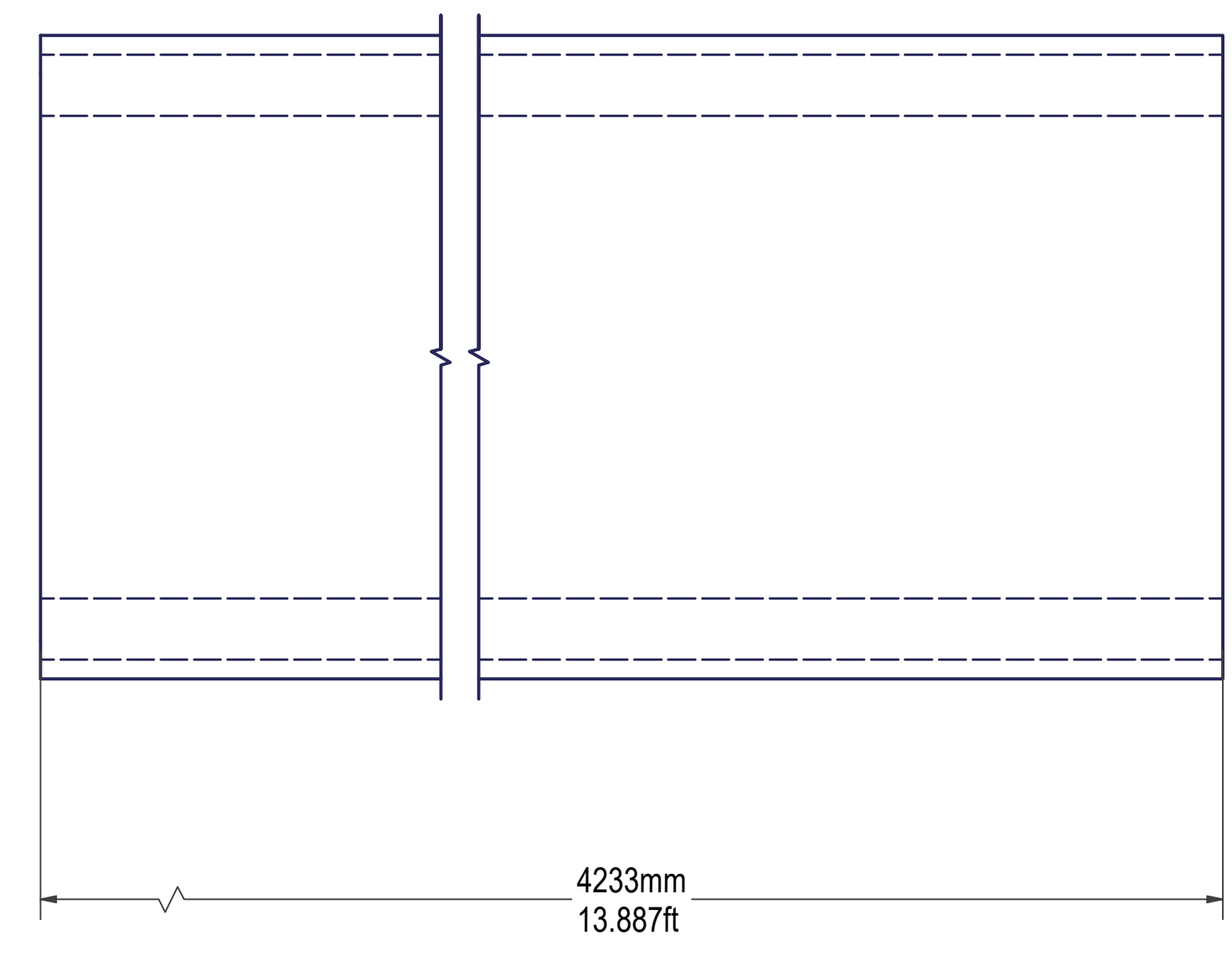
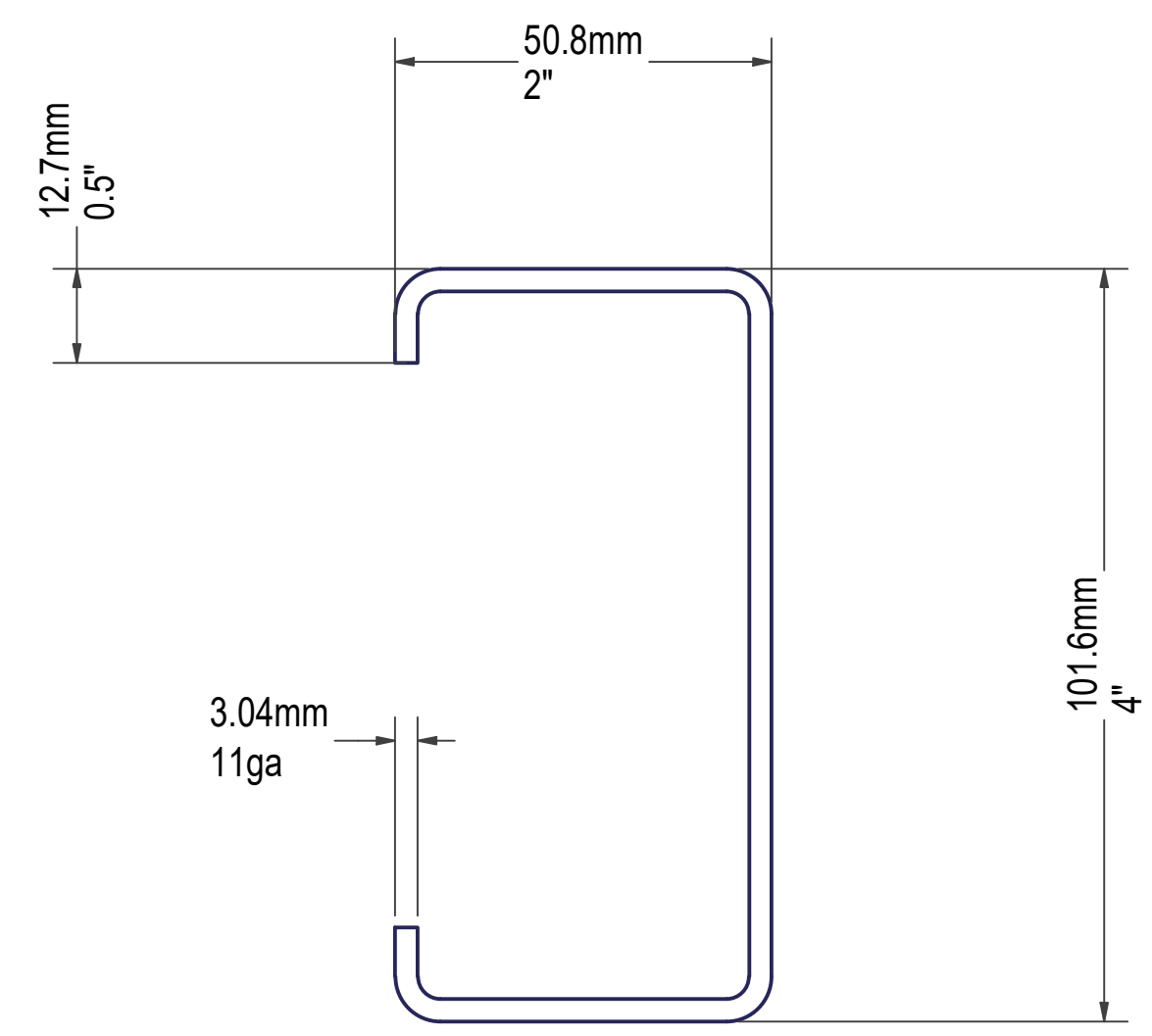


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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
 CHANNEL 2"x4"

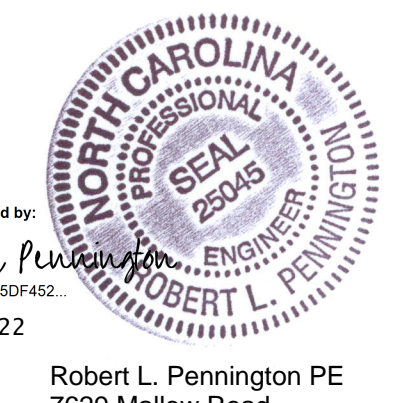
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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	DRAWING NUMBER F_CHANNEL F-4		
		SHEET 5 OF 10	SIZE B	REVISION 2	



DXF FILE: CHANNEL F-1_1

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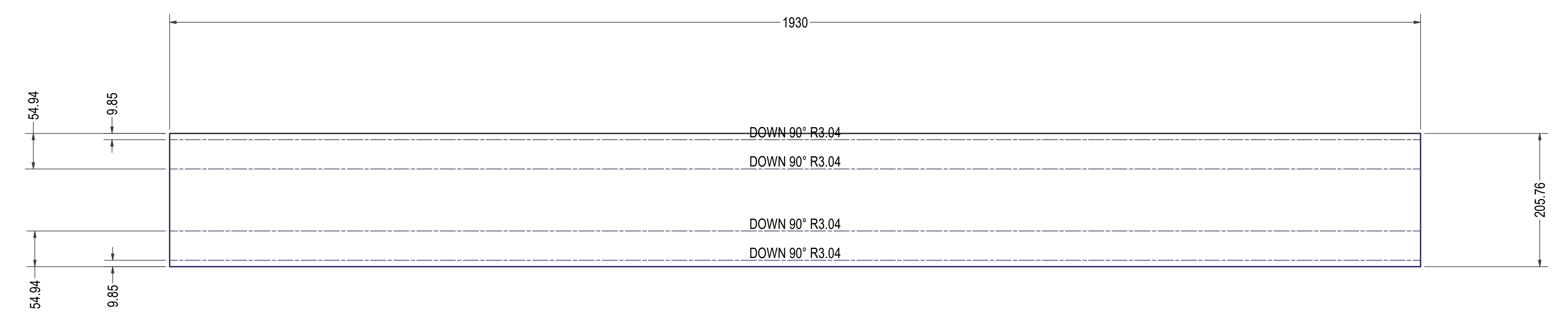
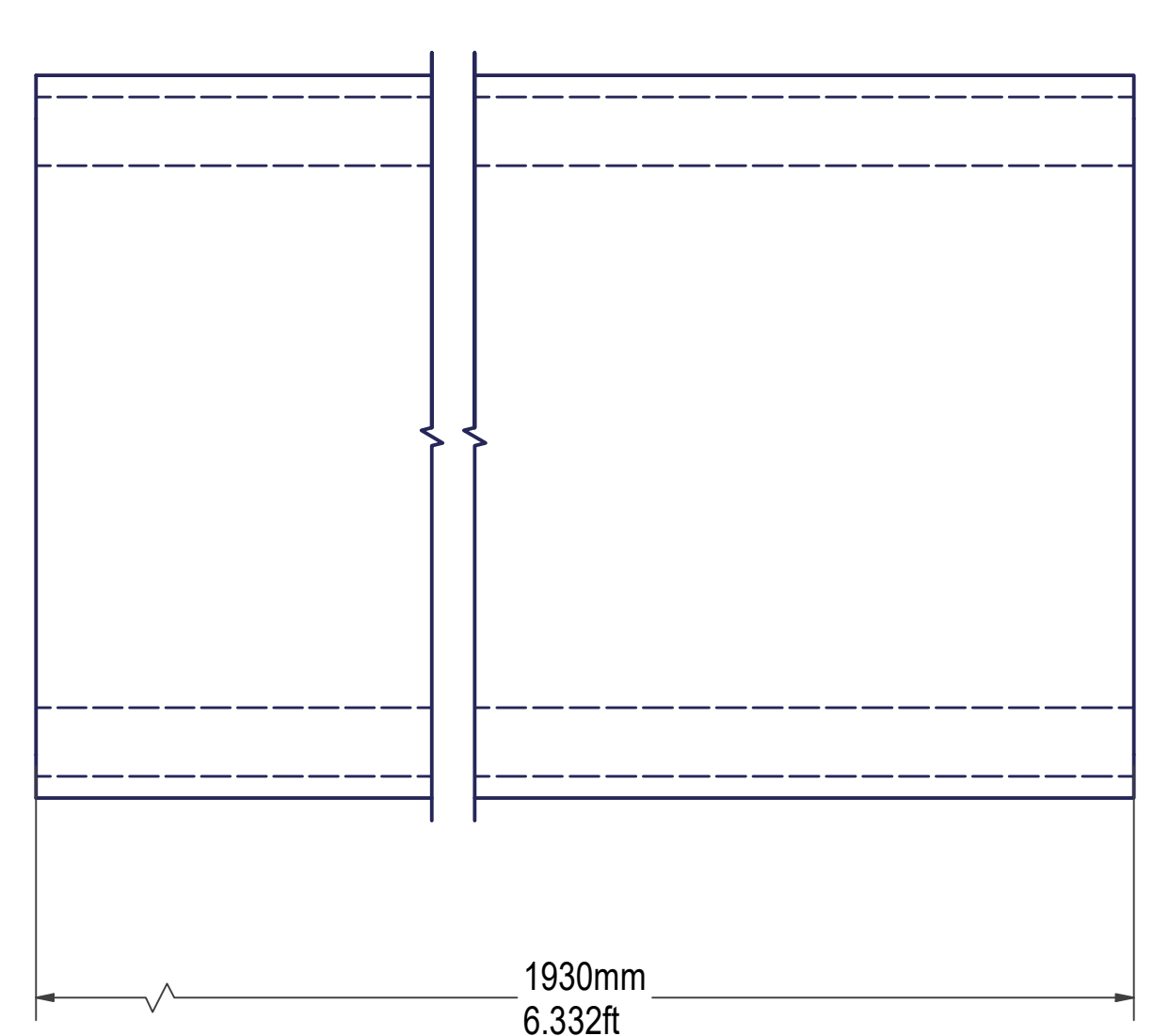
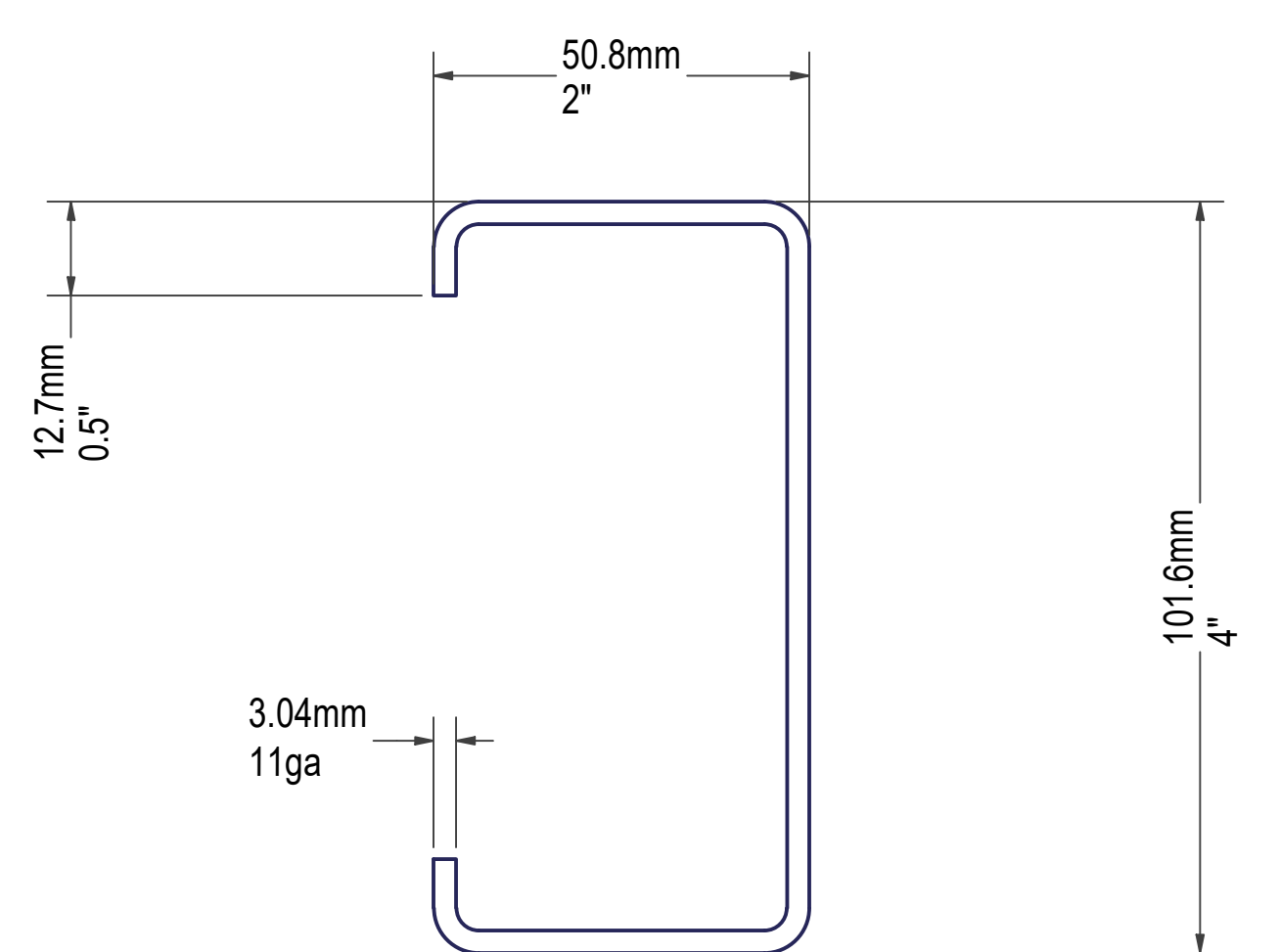
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
CHANNEL 2"x4"

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 120 TO : 400 TO : 1000 TO : 2000 TO : 4000	TOLERANCE ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION		SHEET 6 OF 10 SIZE B REVISION 2

DRAWING NUMBER F_CHANNEL F-1
--



DXF FILE: CHANNEL F-2_1



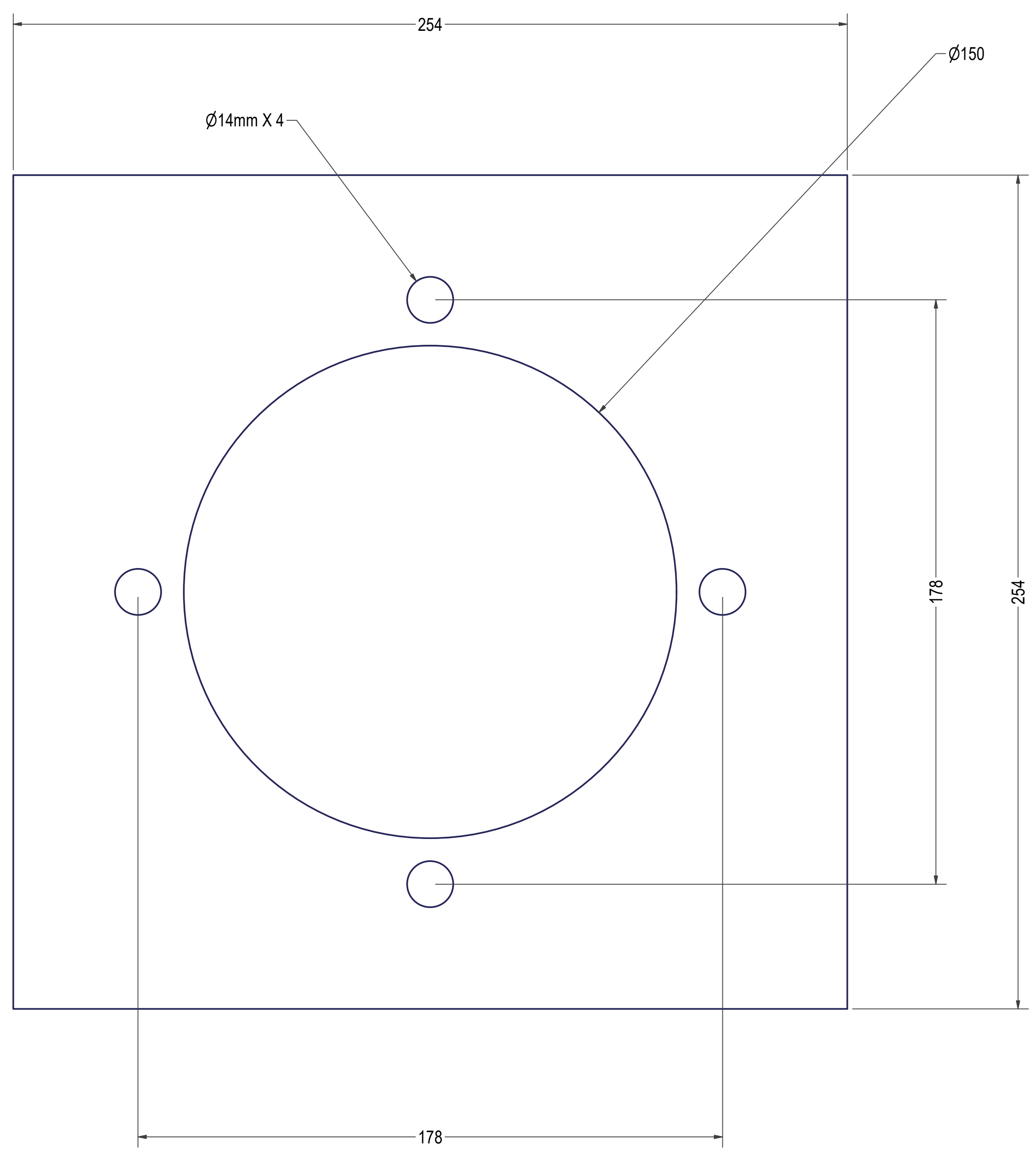
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Wilmington, NC 28411
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Phone: 910-520-0278

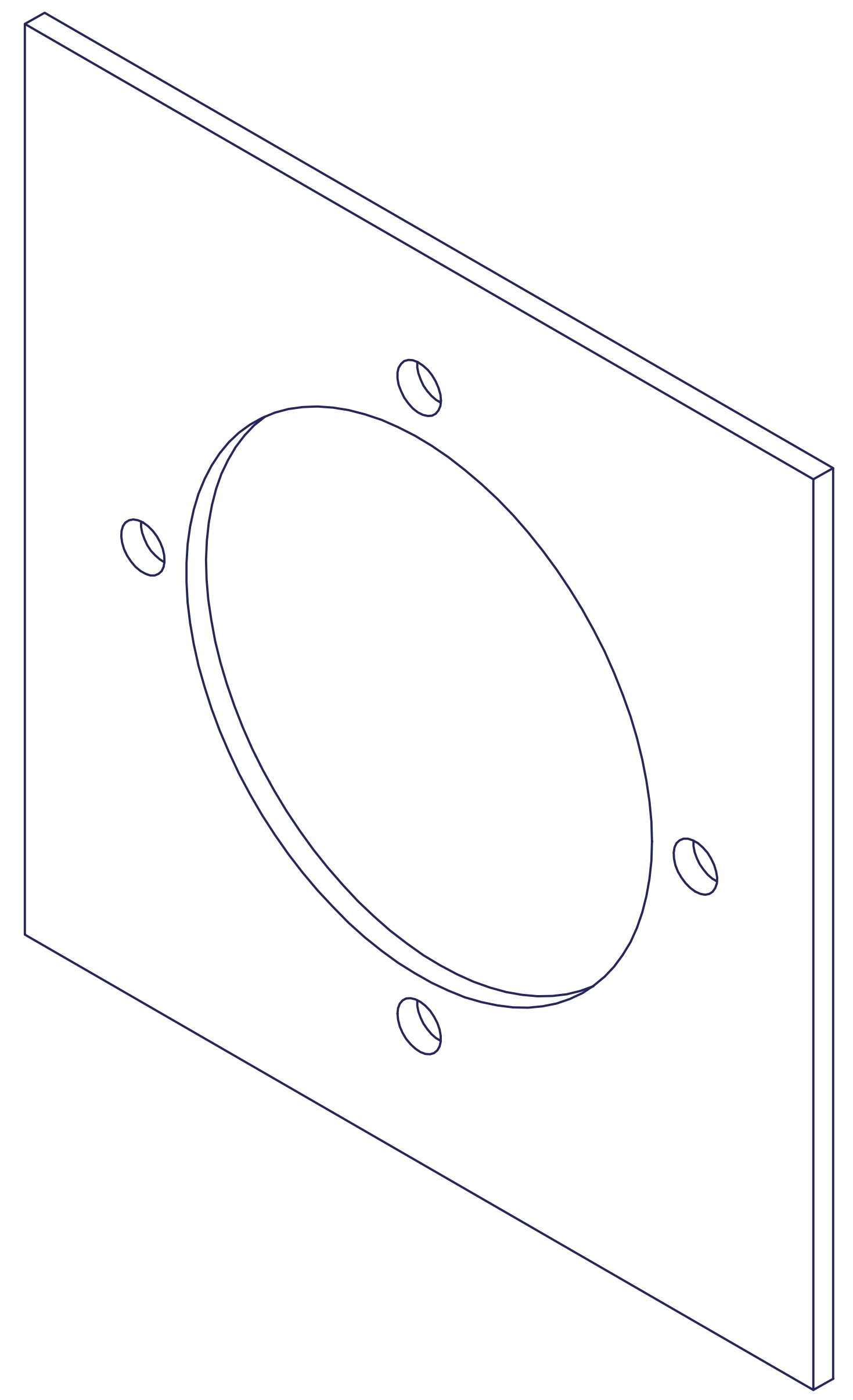
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

TITLE
CHANNEL 2"x4"

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		GENERAL TOLERANCES LINEAR DIMENSIONS	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK			
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	TOLERANCE ±0.1 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	SHEET 7 OF 10	SIZE B	REVISION 2	



6.35mm
0.25"



DXF FILE: PLATE BASE FOUNDATION_1

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MATERIAL	Steel ASTM A36
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

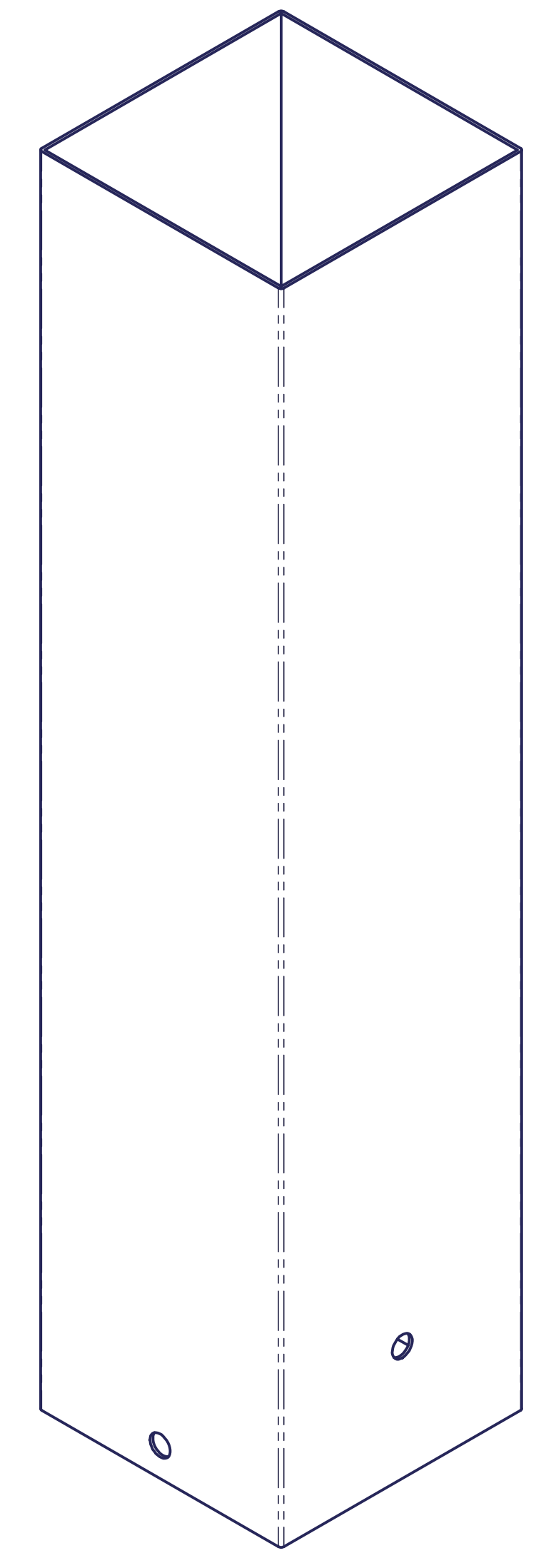
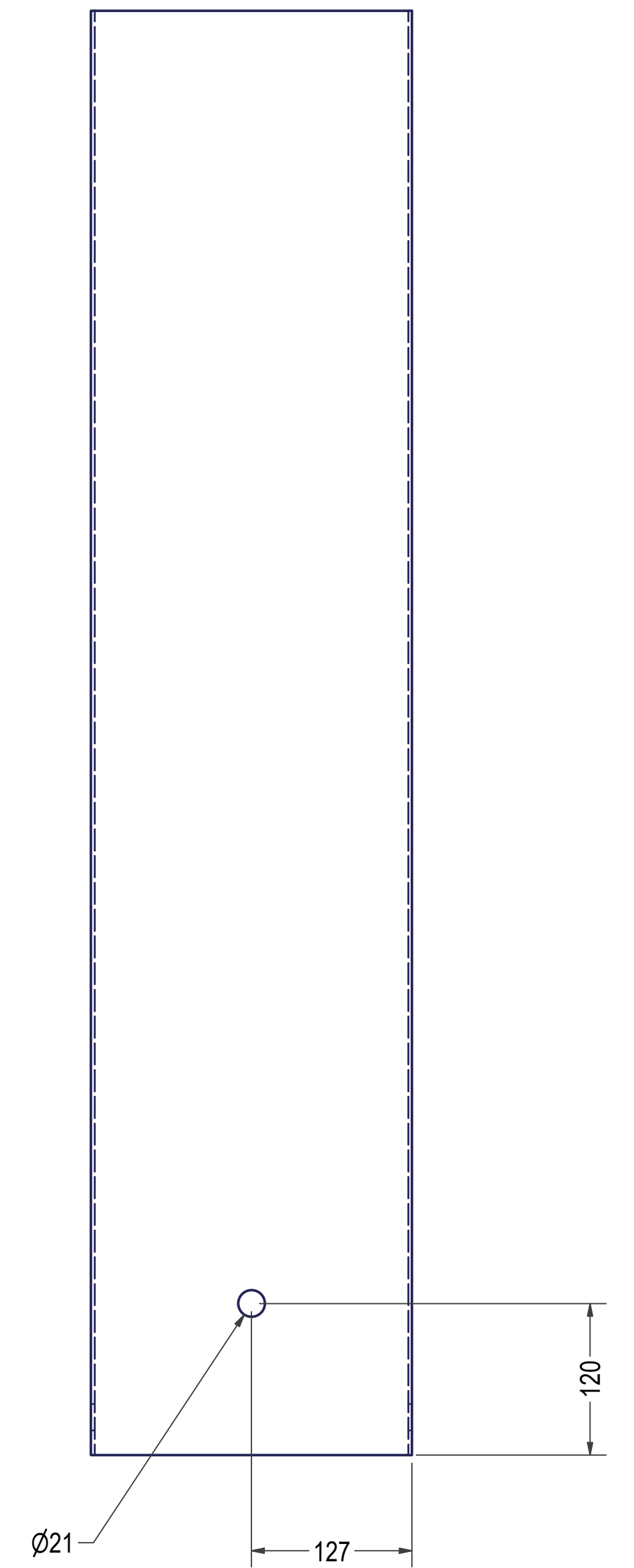
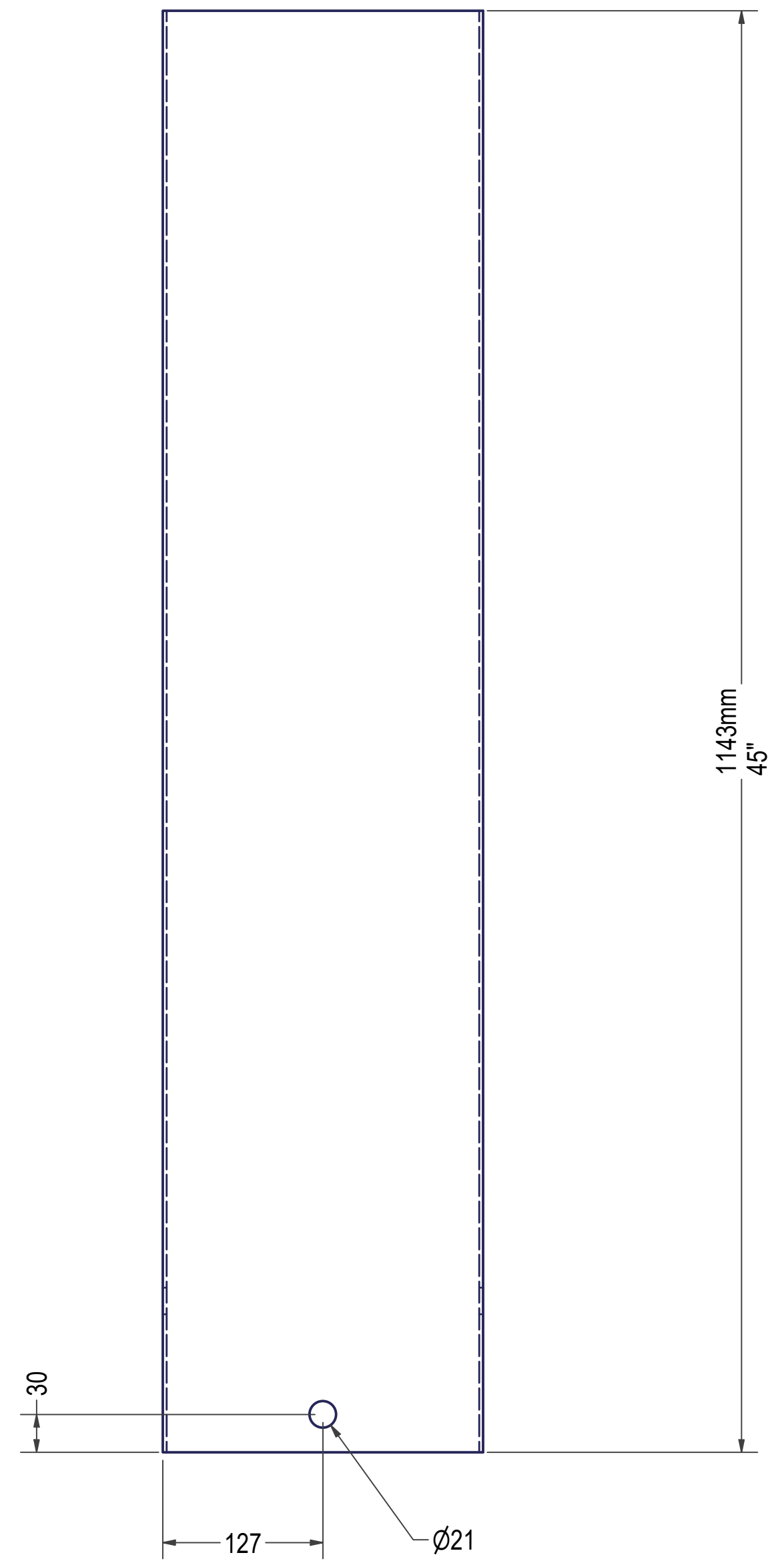
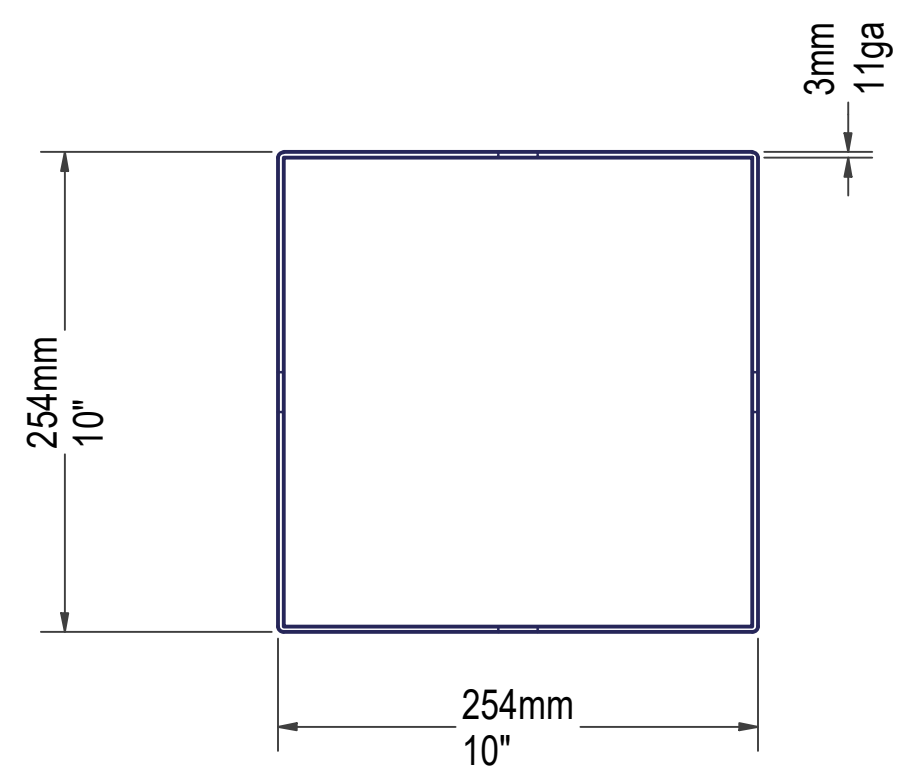
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 Wilmington, NC 28411
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 3/13/2022



TITLE
BASE PLATE

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	TOLERANCE ±0.1 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION		DRAWING NUMBER PLATE BASE FOUNDATION
SHEET 6 OF 10		SIZE: B		REVISION: 2



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Robert L. Pennington
3/13/2022

NORTH CAROLINA
PROFESSIONAL SEAL
25045
ROBERT L. PENNINGTON
ENGINEER

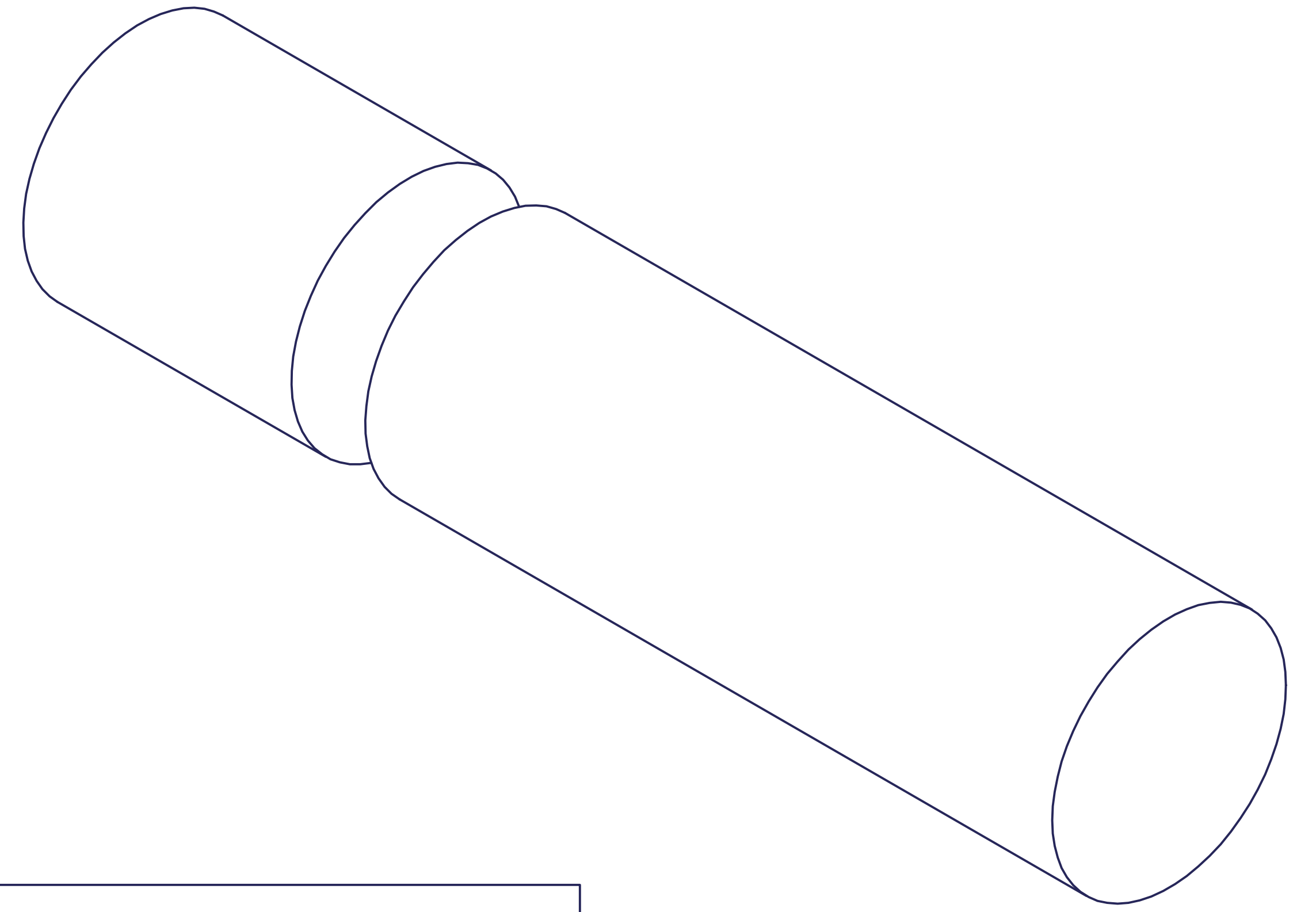
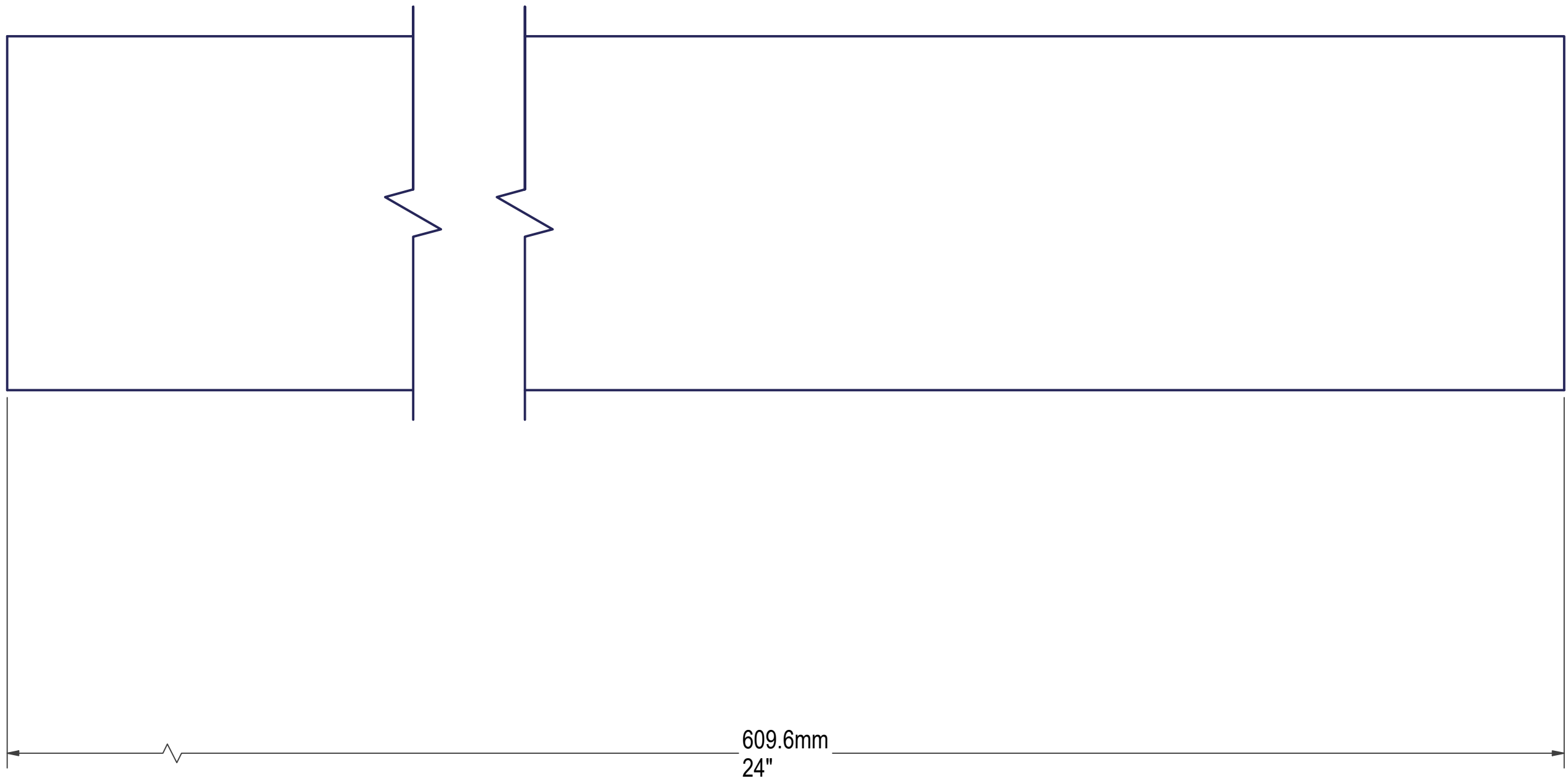
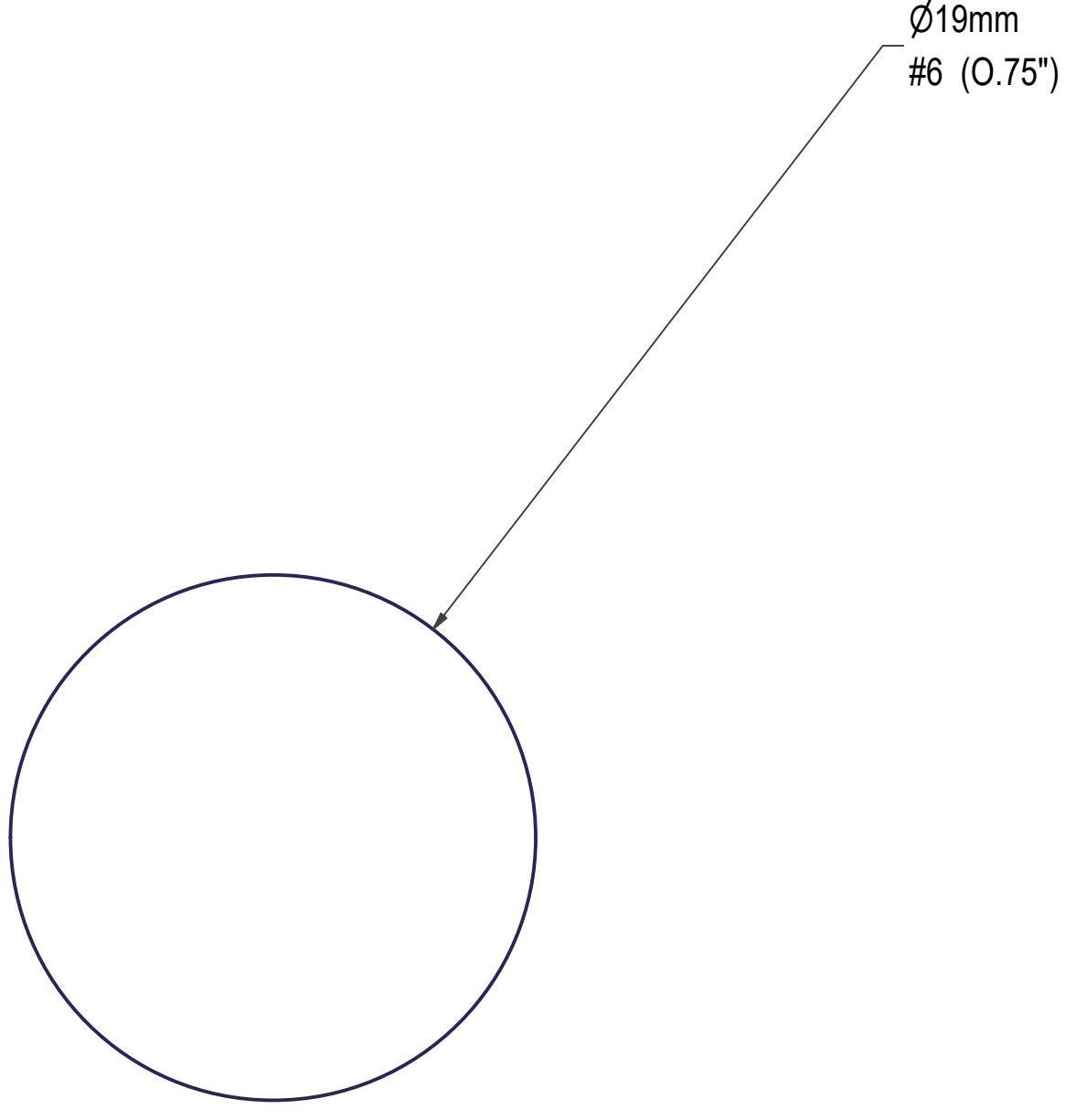
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MATERIAL	Steel ASTM A500 GR B STRUCTURAL
THICK	
MASS	26.923 kg
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
TUBE PILLAR

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	LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		



MATERIAL: CARBON STEEL ASTM 615

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 Wilmington, NC 28411
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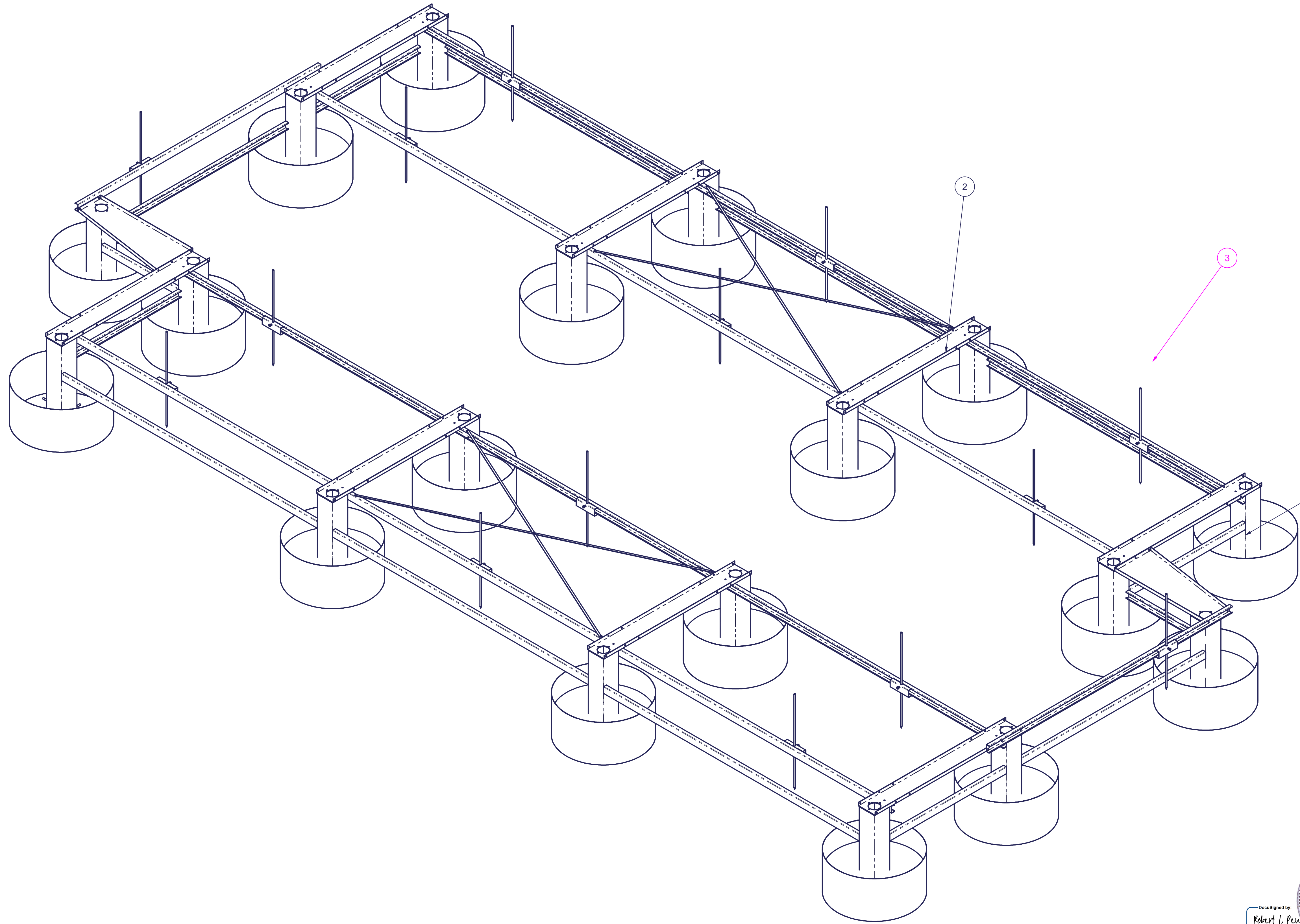
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MATERIAL	Generic
THICK	
MASS	0.173 kg
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



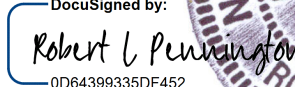
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	LINEAR TO : 0.5 TO : 3 TO : 6 TO : 12 TO : 25 TO : 50 TO : 100 TO : 200 3 6 12 25 50 100 200 400 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	TITLE RUBAR #6 (0.75", 19MM) DRAWING REBAR PILLAR SECTION SHEET 10 OF 10 SIZE: B REVISION: 2	

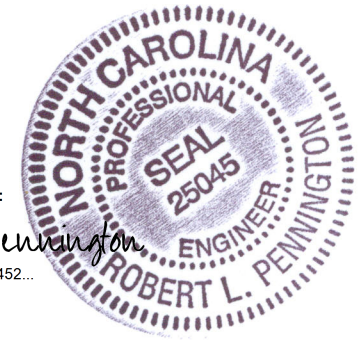
ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	1	F_CHICKADEE_LAYOUT	FOUNDATION LAYOUT CHICKADEE	
2	1	F_CHICKADEE_IG_ASSY_FOUN	CHICKADEE_ JIGGING ASSEMBLY	
3	1	F_CHICKADEE_HOLE_LAYOUT	EXCAVATION DIMENSIONS	

ZONE	REV	DESCRIPTION	ENG	DATE
	1	INITIAL RELEASE		2/20/2022



45FT CONTAINERS WITH 10FT SPACING AND 5FT OFFSET

DocuSigned by:

 006499330F452
 3/13/2022



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 Wilmington, NC 28411
 Email: robert@RLPPE.com
 Phone: 910-520-0278

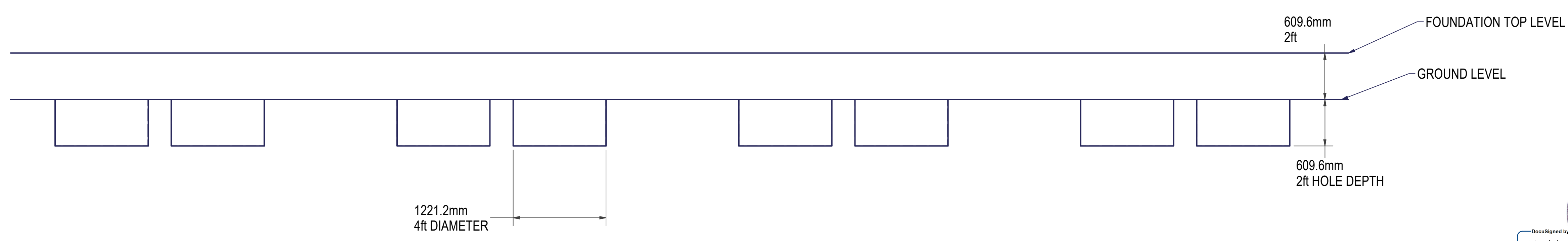
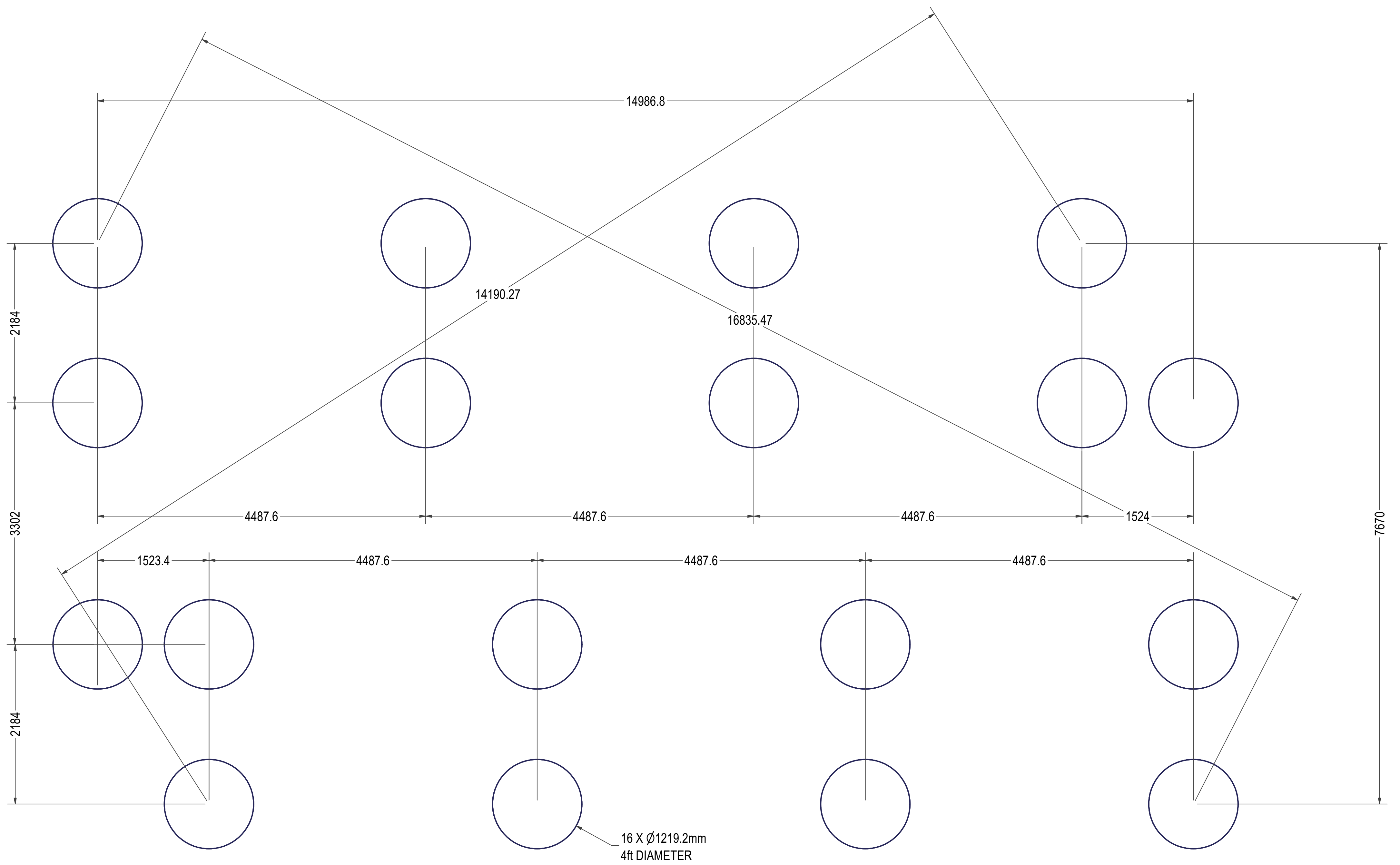
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE	CHICKADEE MODEL V1 FOUNDATION LAYOUT
-------	--------------------------------------

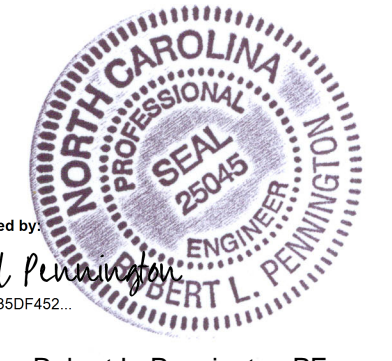
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		THIRD ANGLE PROJECTION

SHEET 1 OF 2 SIZE: B REVISION: 1
--



FOUNDATION HOLE LAYOUT DIMENSIONS

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MATERIAL	Steel ASTM A36
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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02043993355DF452

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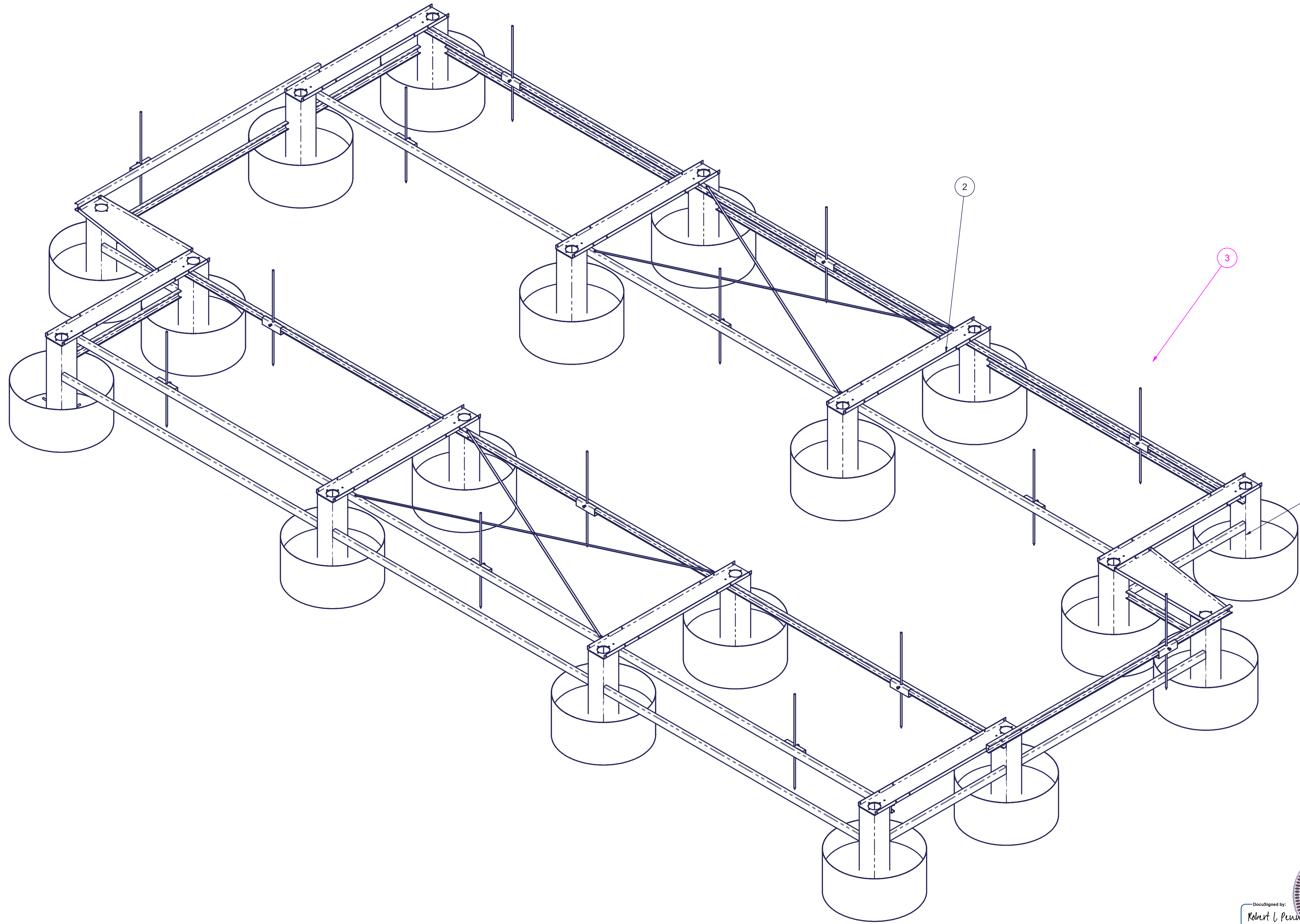


TITLE	EXCAVATION DIMENSIONS
-------	-----------------------

<p>FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS</p> <p>This print is shared on a confidential basis subject to return upon demand by SSS and nothing herein may be reproduced, used or disclosed in whole or in part without the prior written permission of Osprey.</p>		<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS</p> <p>GENERAL TOLERANCES LINEAR DIMENSIONS</p> <table border="1"> <tr> <th>LINEAR</th> <th>0.5 TO 3</th> <th>3 TO 8</th> <th>8 TO 15</th> <th>15 TO 30</th> <th>30 TO 60</th> <th>60 TO 120</th> <th>120 TO 200</th> <th>200 TO 400</th> <th>400 TO 1000</th> <th>1000 TO 2000</th> <th>2000 TO 4000</th> </tr> <tr> <td>±</td> <td>0.1</td> <td>0.15</td> <td>0.2</td> <td>0.3</td> <td>0.4</td> <td>0.5</td> <td>0.6</td> <td>0.8</td> <td>1.0</td> <td>1.2</td> <td>1.5</td> </tr> </table>		LINEAR	0.5 TO 3	3 TO 8	8 TO 15	15 TO 30	30 TO 60	60 TO 120	120 TO 200	200 TO 400	400 TO 1000	1000 TO 2000	2000 TO 4000	±	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	<p>REMOVE ALL SHARP EDGES AND BURRS</p> <p>THIRD ANGLE PROJECTION</p>	
LINEAR	0.5 TO 3	3 TO 8	8 TO 15	15 TO 30	30 TO 60	60 TO 120	120 TO 200	200 TO 400	400 TO 1000	1000 TO 2000	2000 TO 4000																		
±	0.1	0.15	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5																		
<p>GOVERNED BY</p> <p>DIN ISO 2768-mK</p>		<p>ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY</p>		<p>CHICKADEE_HOLE LAYOUT</p> <p>SHEET 2 OF 2</p> <p>SIZE: B</p> <p>REVISION: 1</p>																									

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	1	F_CHICKADEE_LAYOUT	FOUNDATION LAYOUT CHICKADEE	
2	1	F_CHICKADEE_IG_ASSY_FOUN	CHICKADEE_JIGGING ASSEMBLY	
3	1	F_CHICKADEE_HOLE_LAYOUT	EXCAVATION DIMENSIONS	

ZONE	REV	DESCRIPTION	ENG	DATE
	1	INITIAL RELEASE		2/20/2022



45FT CONTAINERS WITH 10FT SPACING AND 5FT OFFSET

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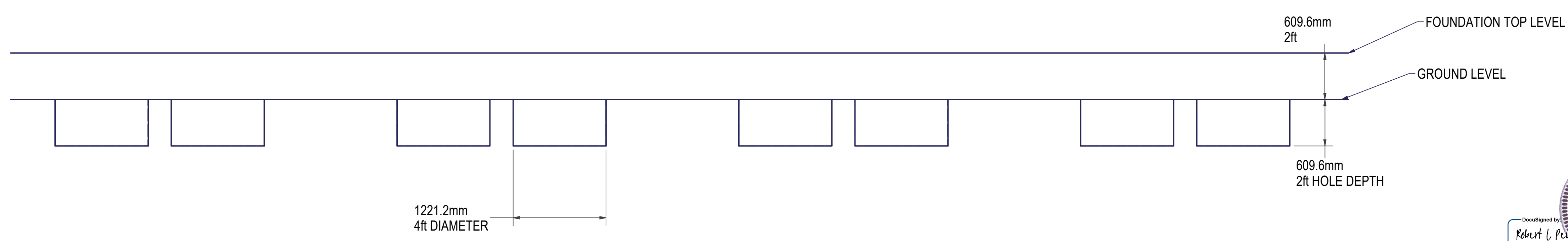
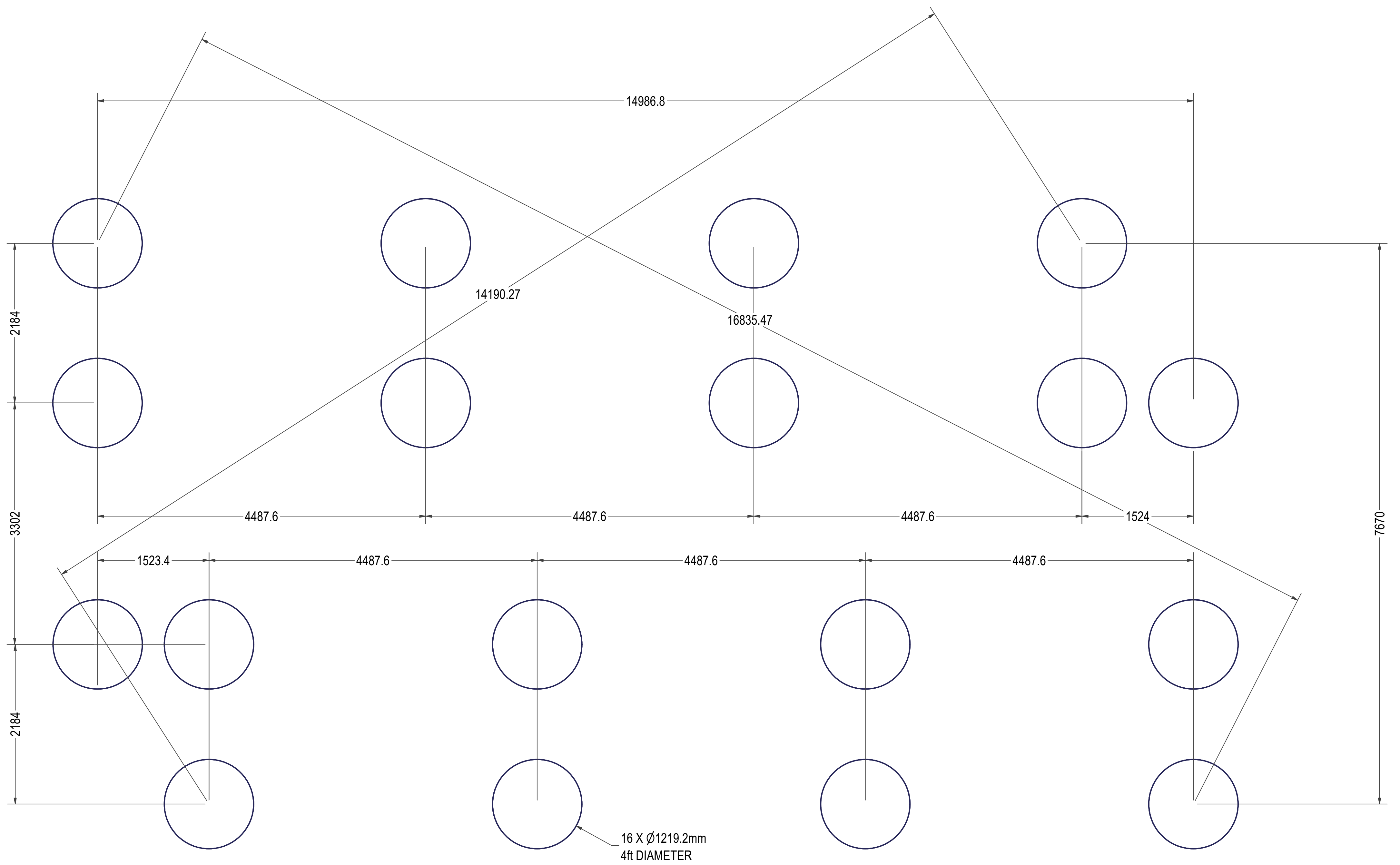
MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURES DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK						

TITLE
 CHICKADEE MODEL V1 FOUNDATION LAYOUT

CHICKADEE LAYOUT SETUP



FOUNDATION HOLE LAYOUT DIMENSIONS

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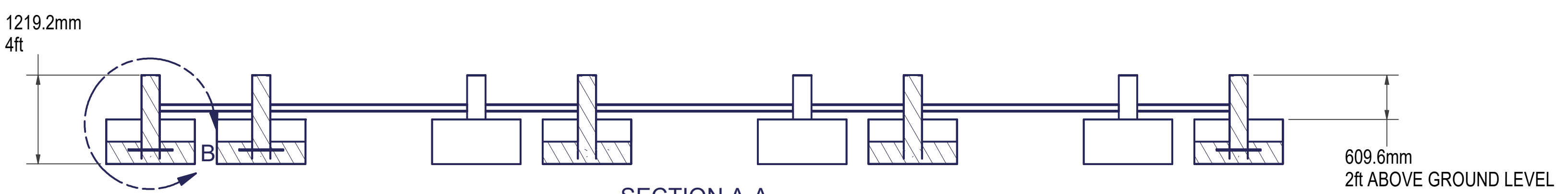
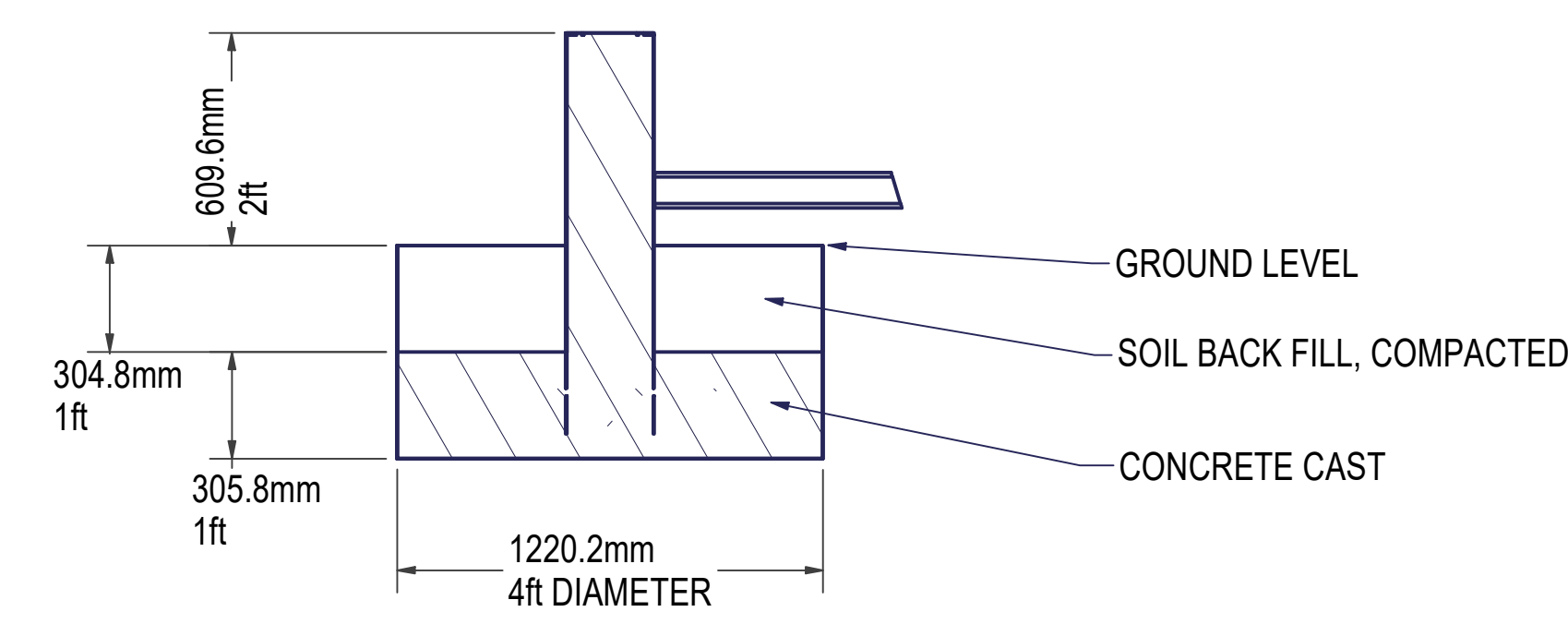
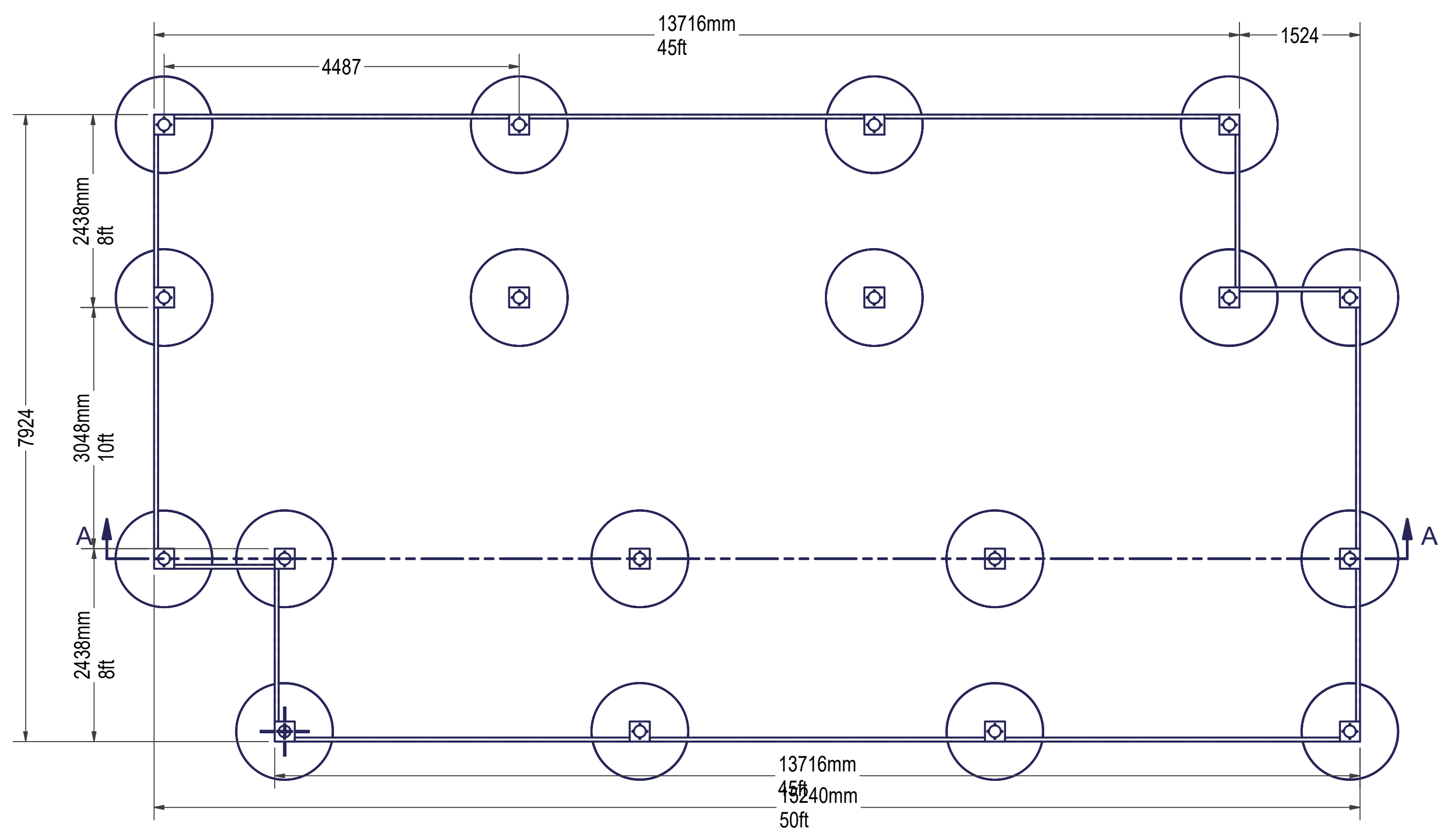
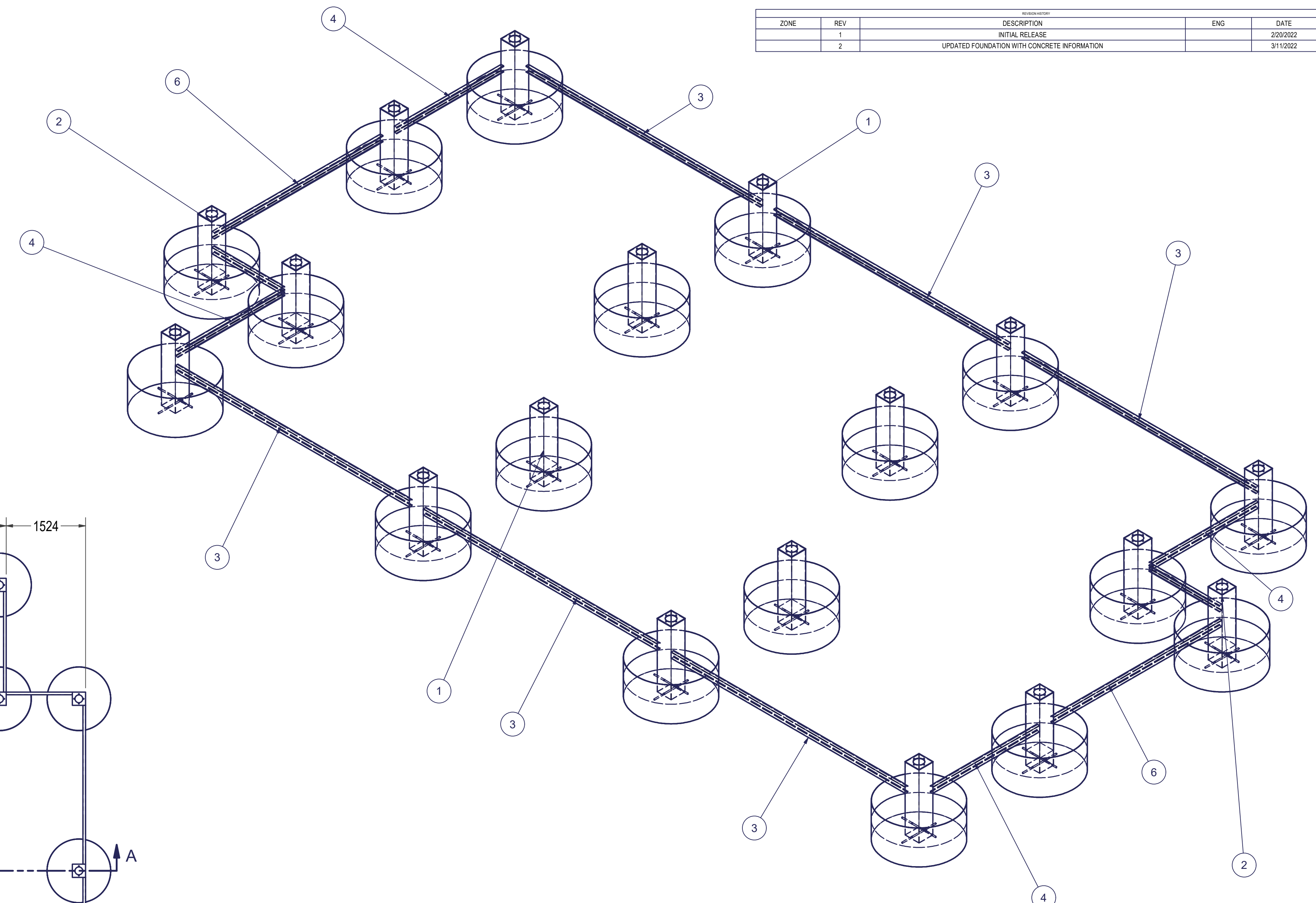
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MATERIAL	Steel ASTM A36
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY UN ISO 2768-mK	REMOVE ALL SHARP EDGES AND BURRS THIRD ANGLE PROJECTION	CHICKADEE_HOLE LAYOUT SHEET 2 OF 2 SIZE: B REVISION: 1
--	--	---	--	---

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	2	F_FOUND_49FT		FOUNDATION LAYOUT 49FT SHARING
2	2	F_PILLAR_ASSY		FOUNDATION PILLAR SINGLE
3	6	F_CHANNEL_F-1		CHANNEL 2"x4"
4	4	F_CHANNEL_F-2		CHANNEL 2"x4"
6	2	F_CHANNEL_F-4		CHANNEL 2"x4"
7	1	F_CHICKADEE_HOLE_LAYOUT		EXCAVATION DIMENSIONS
8	1	F_CHICKADEE_CONCRETE		CONCRETE VOLUMETRIC CAST

ZONE	REV	DESCRIPTION	ENG	DATE
	1	INITIAL RELEASE		2/20/2022
	2	UPDATED FOUNDATION WITH CONCRETE INFORMATION		3/11/2022



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 3/13/2022

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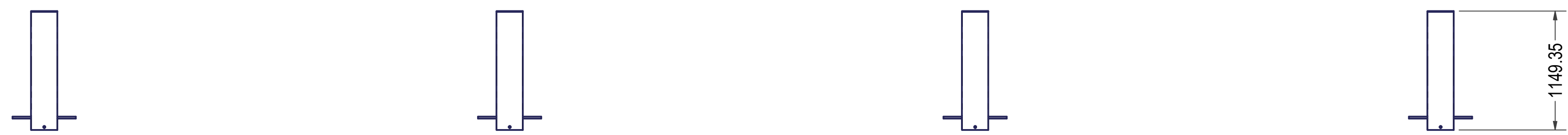
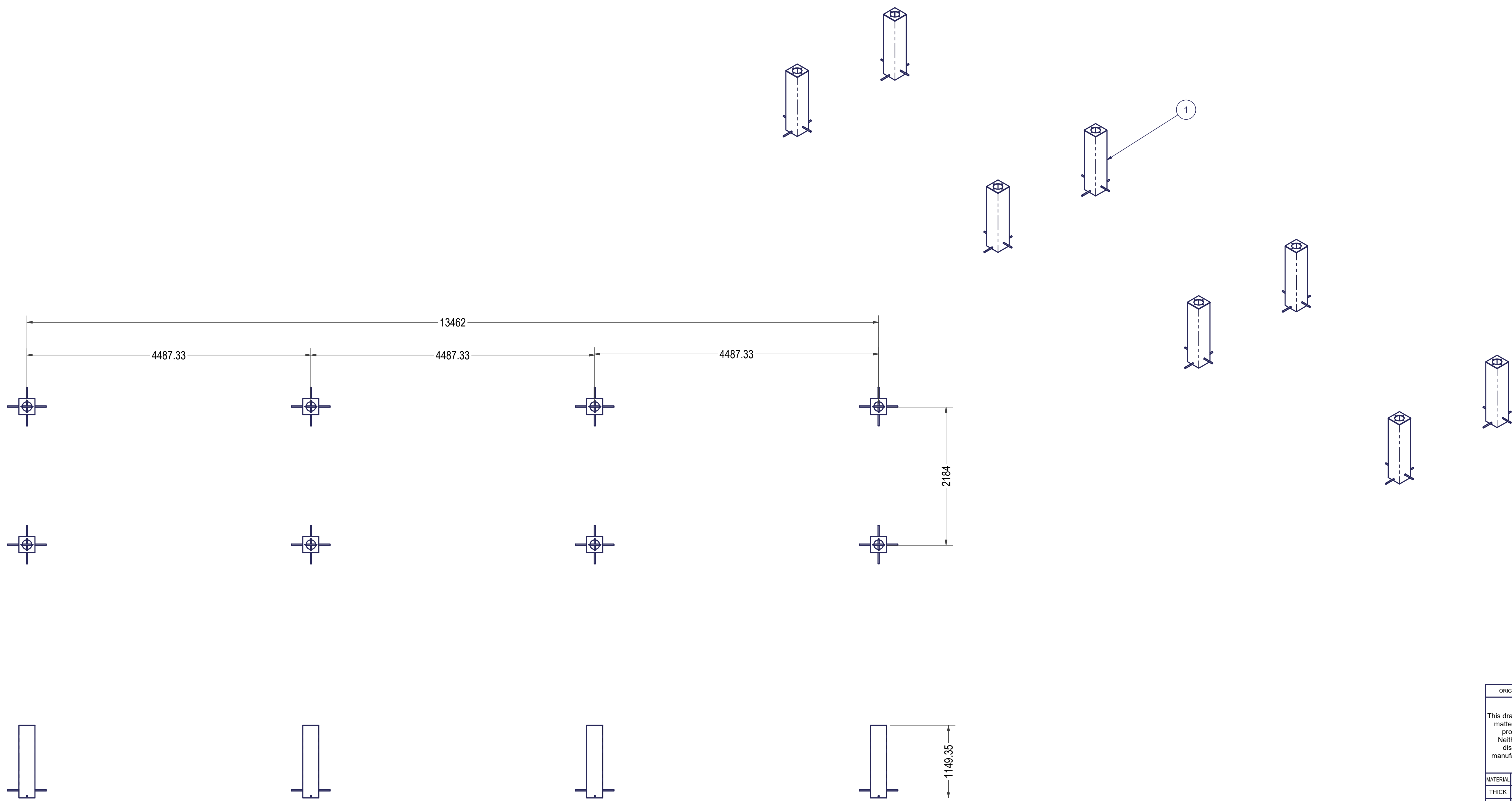
MATERIAL	
THICK	
MASS	N/A
VENDOR	INTEGRATOR
STOCK #	
DRAWN	Dirk Genis
DATE	2/20/2022

SELF SUSTAINABLE SOLUTIONS

TITLE: FOUNDATION LAYOUT CHICKADEE

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		GENERAL TOLERANCES LINEAR DIMENSIONS 0.5 TO 10 ±0.1 10 TO 30 ±0.2 30 TO 100 ±0.3 100 TO 300 ±0.4 300 TO 1000 ±0.5 1000 TO 2000 ±0.6 2000 TO 4000 ±0.8 4000 TO 10000 ±1.2 10000 TO 20000 ±1.5	ALL OTHER FEATURES DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		

BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	F_PILLAR ASSY	FOUNDATION PILLAR SINGLE



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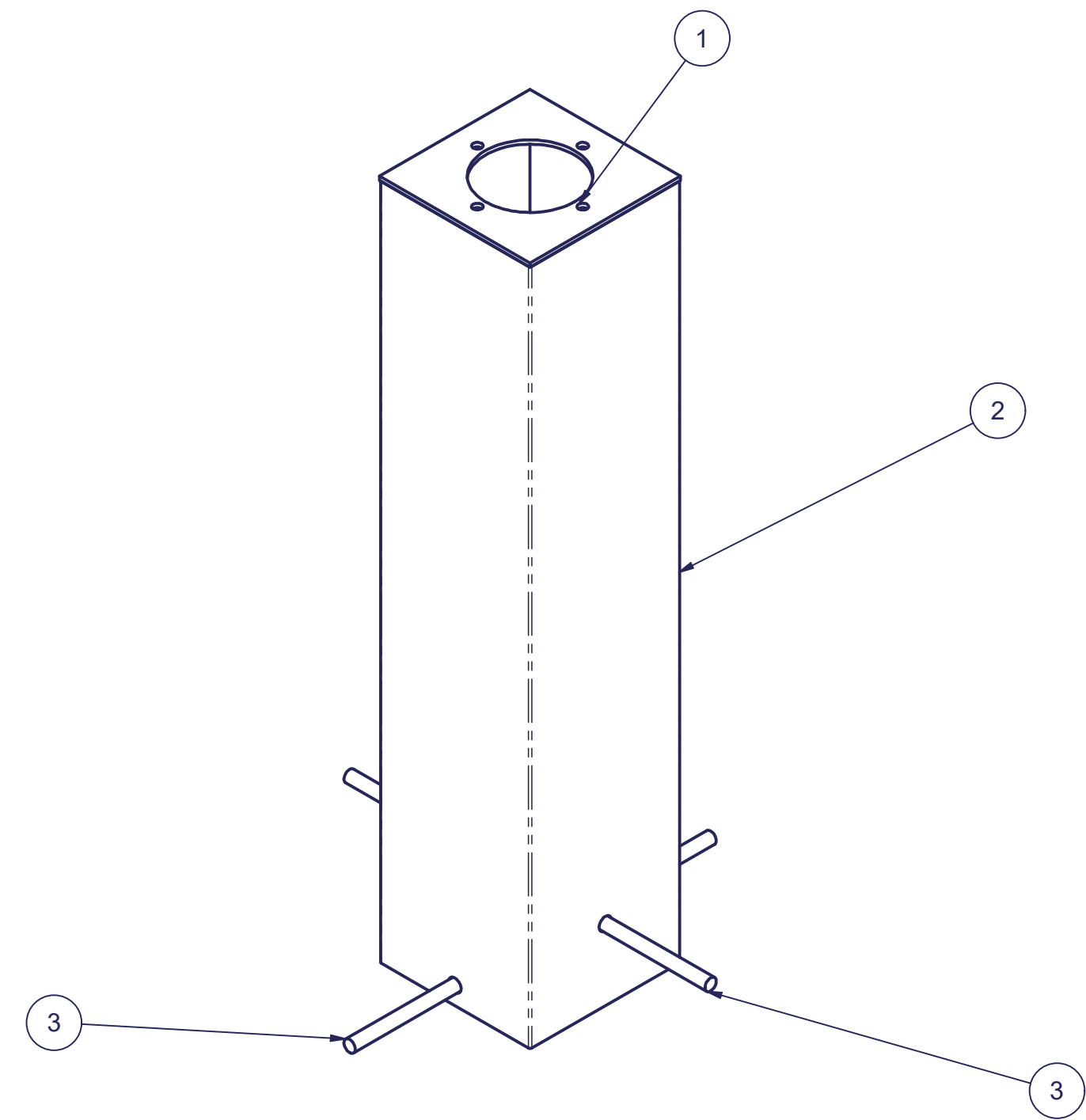
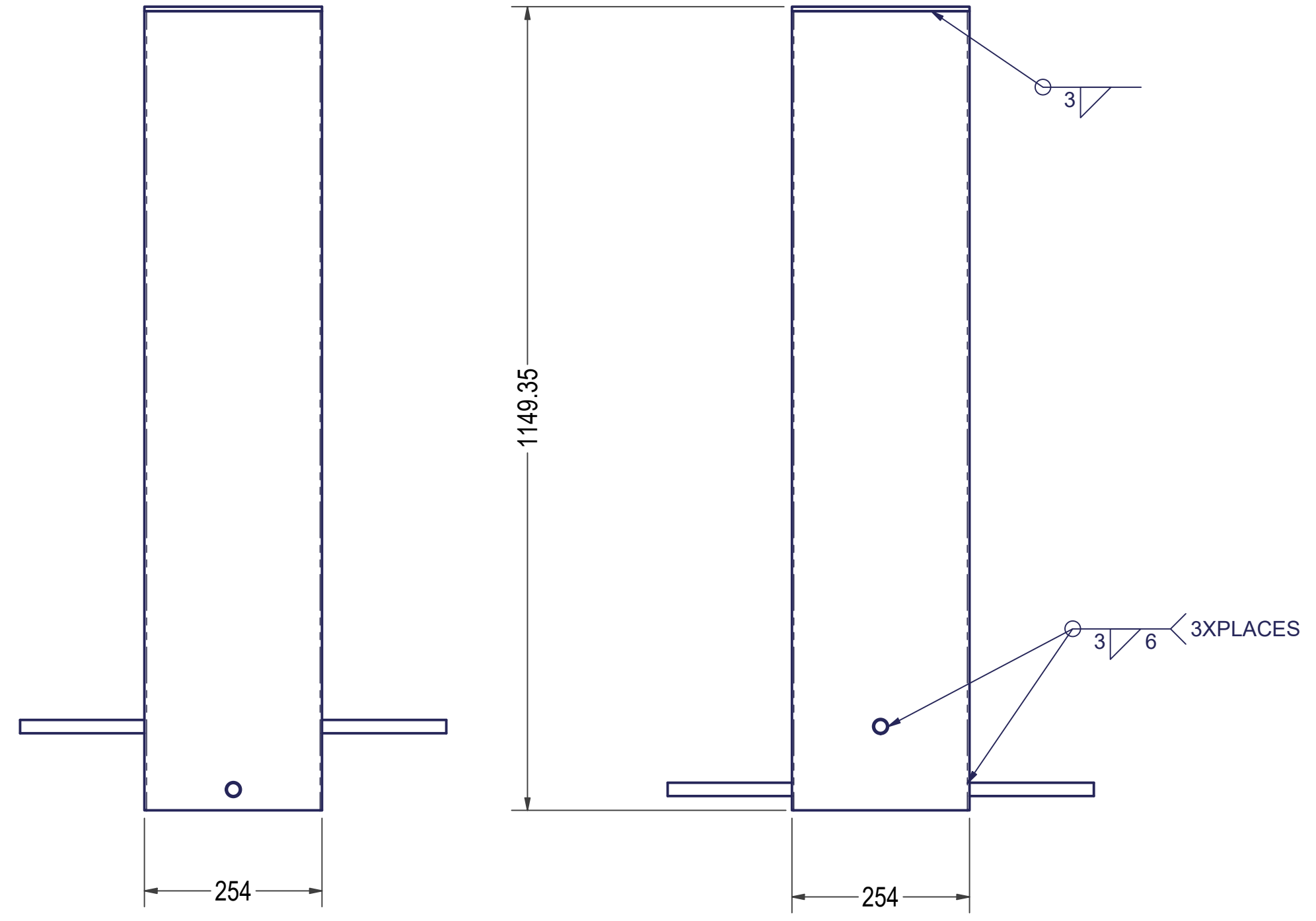
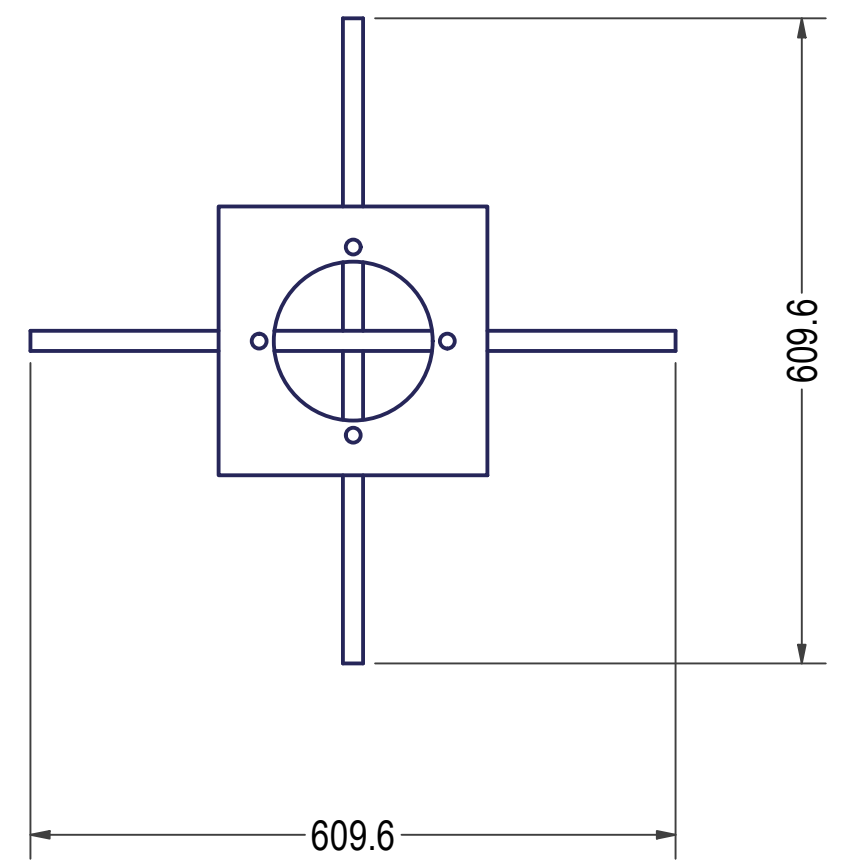
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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LINEAR	0.5	3	8	30	120	400	1000	2000			
	TO	TO	TO	TO	TO	TO	TO	TO			
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0				
										SHEET 2 OF 10 SIZE: B REVISION: 2	

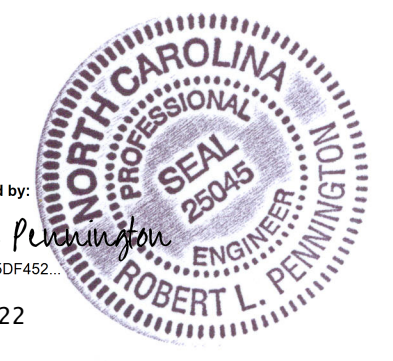
TITLE
FOUNDATION LAYOUT 40FT, SHARING

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	PLATE BASE FOUNDATION	BASE PLATE
2	1	TUBE PILLAR	TUBE PILLAR
3	2	REBAR PILLAR SECTION	RUBAR #6 (0.75", 19MM)



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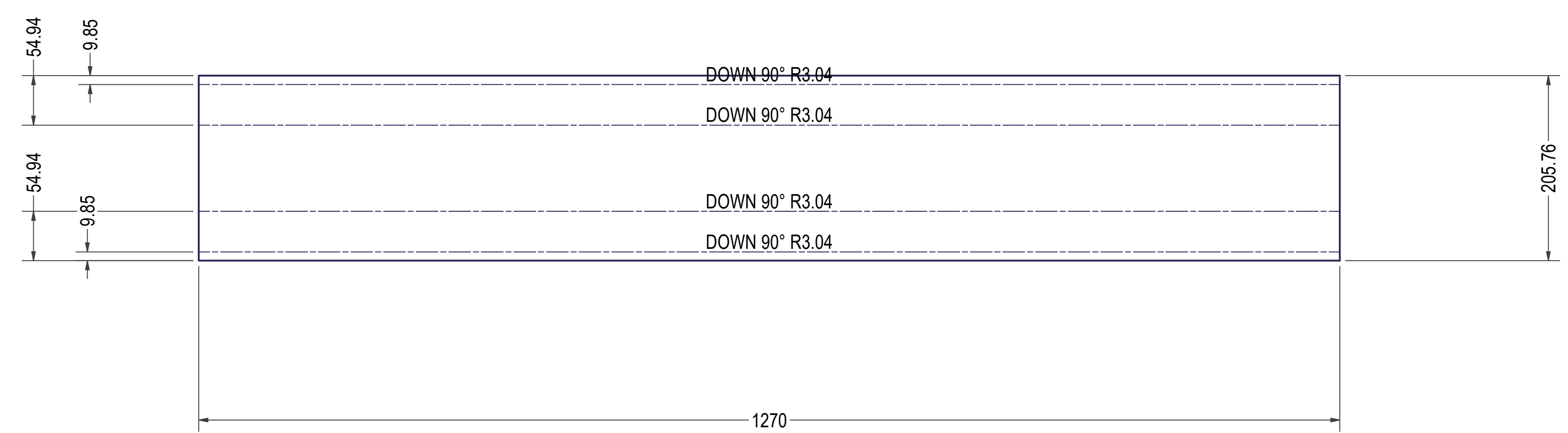
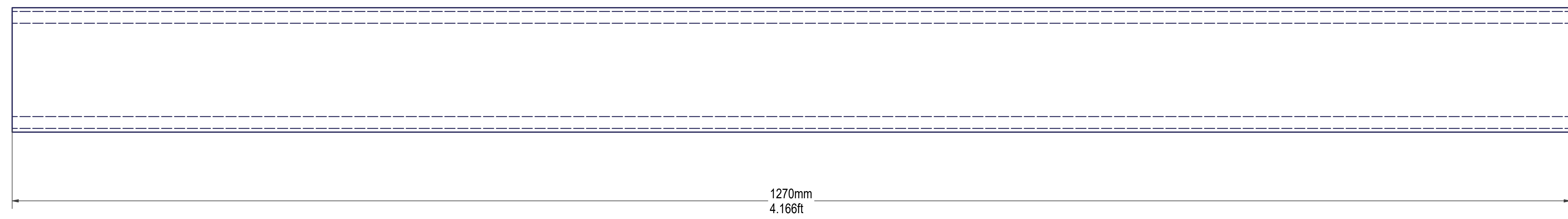
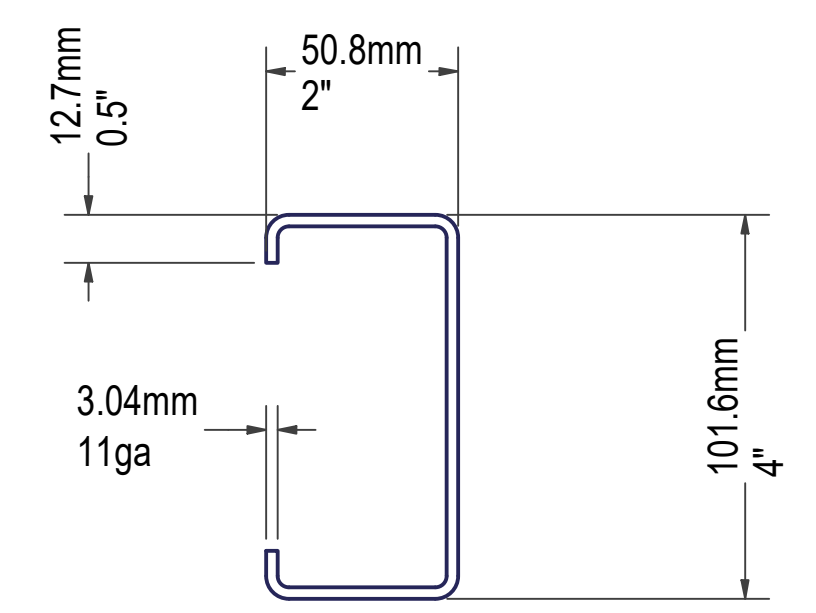
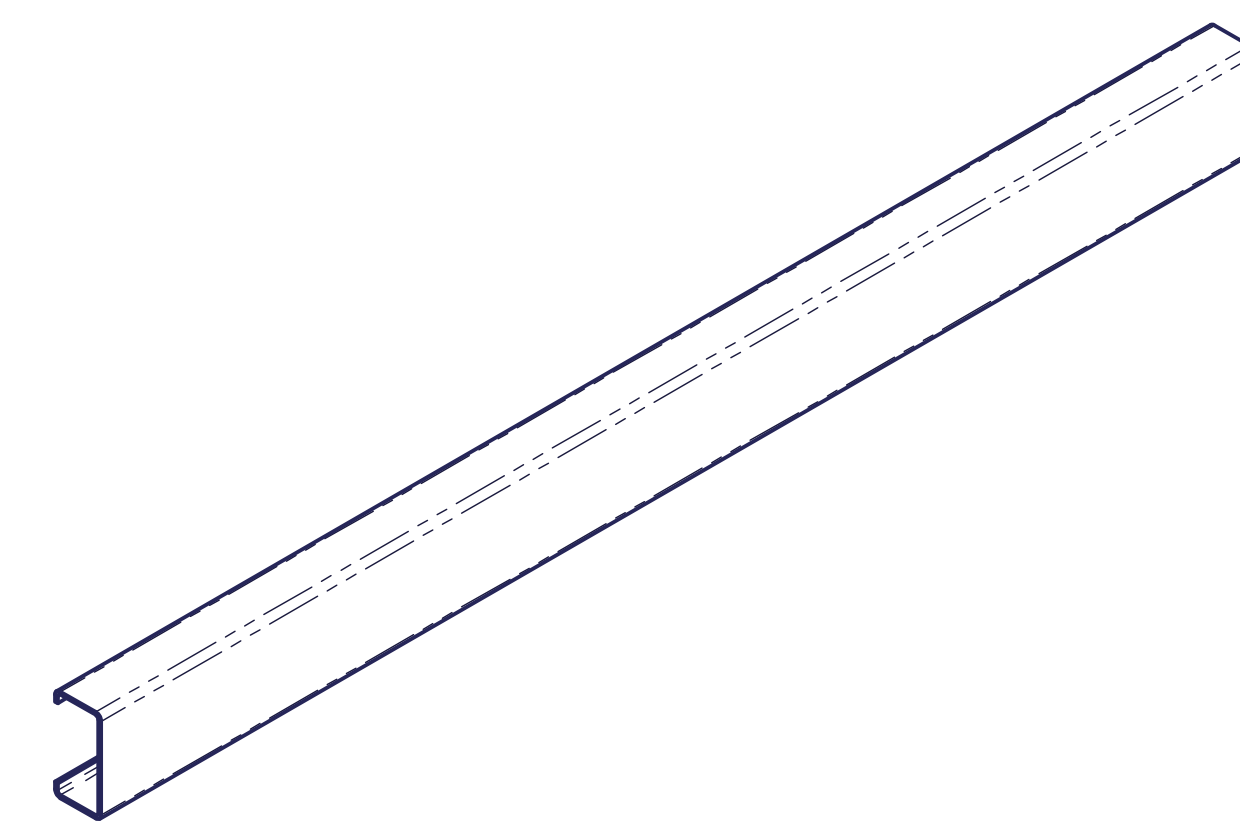


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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	DRAWING NUMBER F_PILLAR ASSY		
		SHEET 3 OF 10	SIZE: B	REVISION: 2	

TITLE
 FOUNDATION PILLAR SINGLE



DXF FILE: CHANNEL F-3_1

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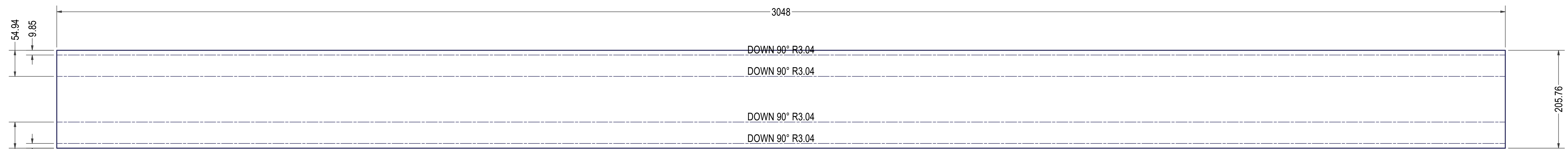
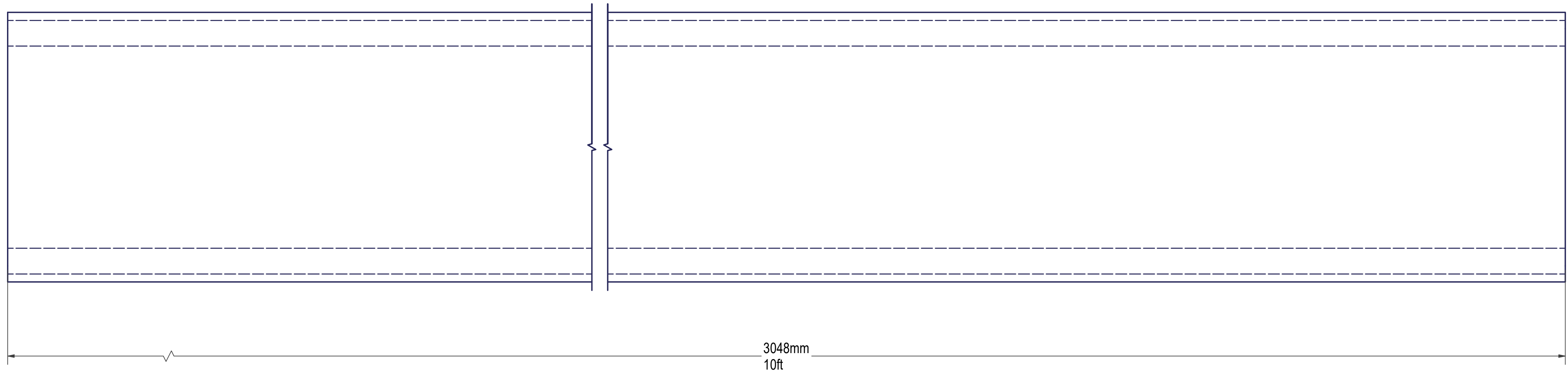
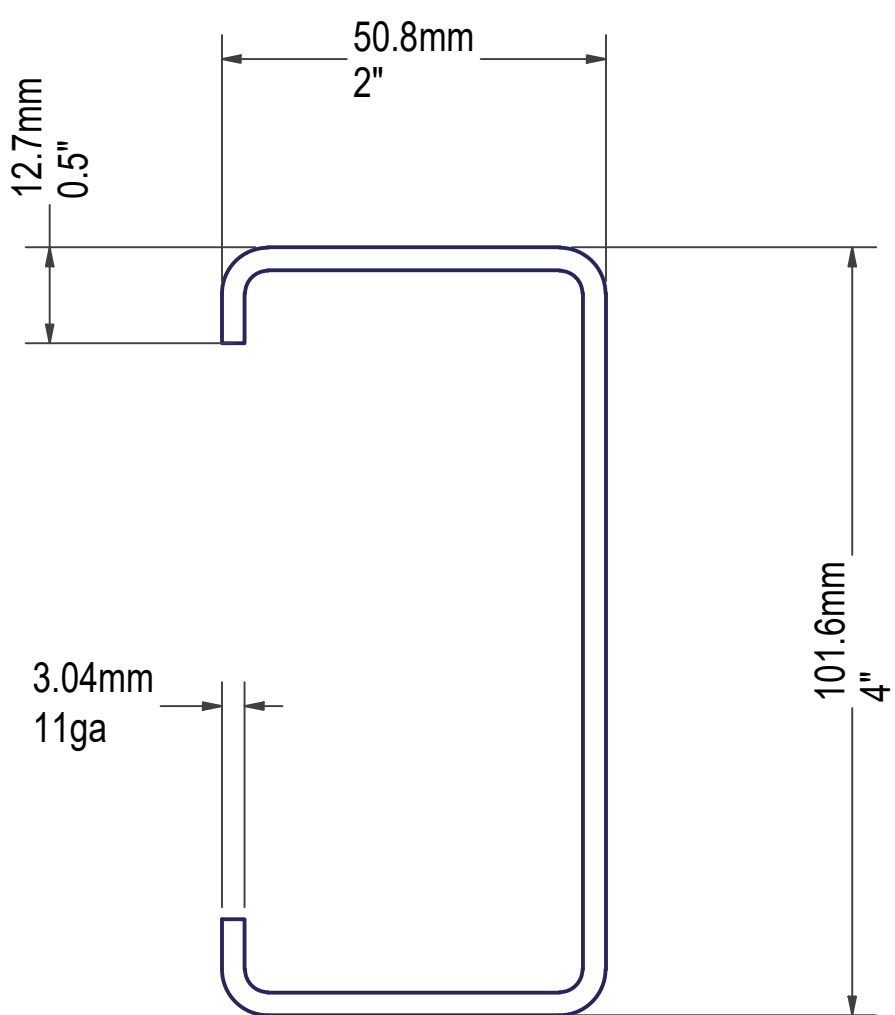
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
CHANNEL 2"x4"

FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS	This print is shared on a confidential basis subject to return upon demand by Osprea and nothing hereon may be reproduced, used or disclosed in whole or in part without the prior written permission of Osprea.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		REMOVE ALL SHARP EDGES AND BURRS	
		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURES DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK			
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 12 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	TOLERANCE ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION	SHEET 4 OF 10	SIZE B	REVISION 2

DRAWING NUMBER
F_CHANNEL F-3



DXF FILE: CHANNEL F-4_1

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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



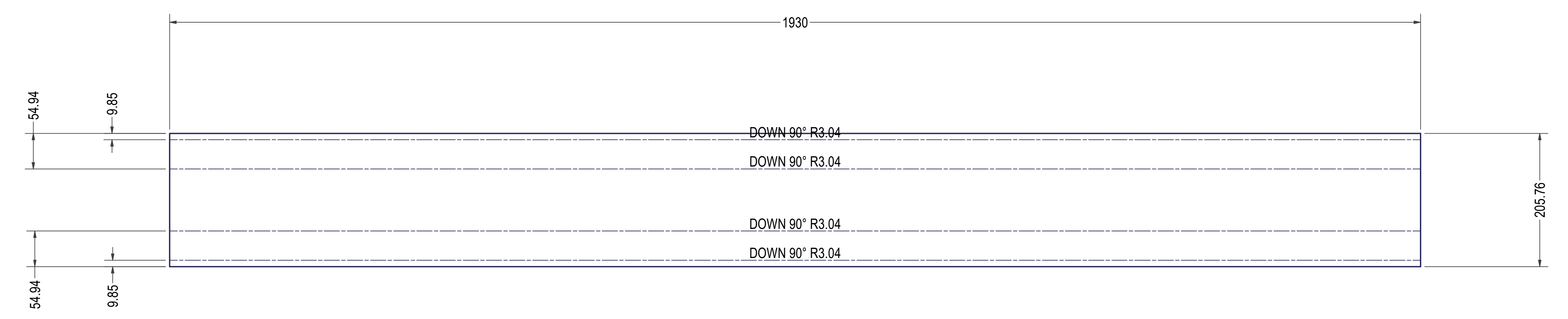
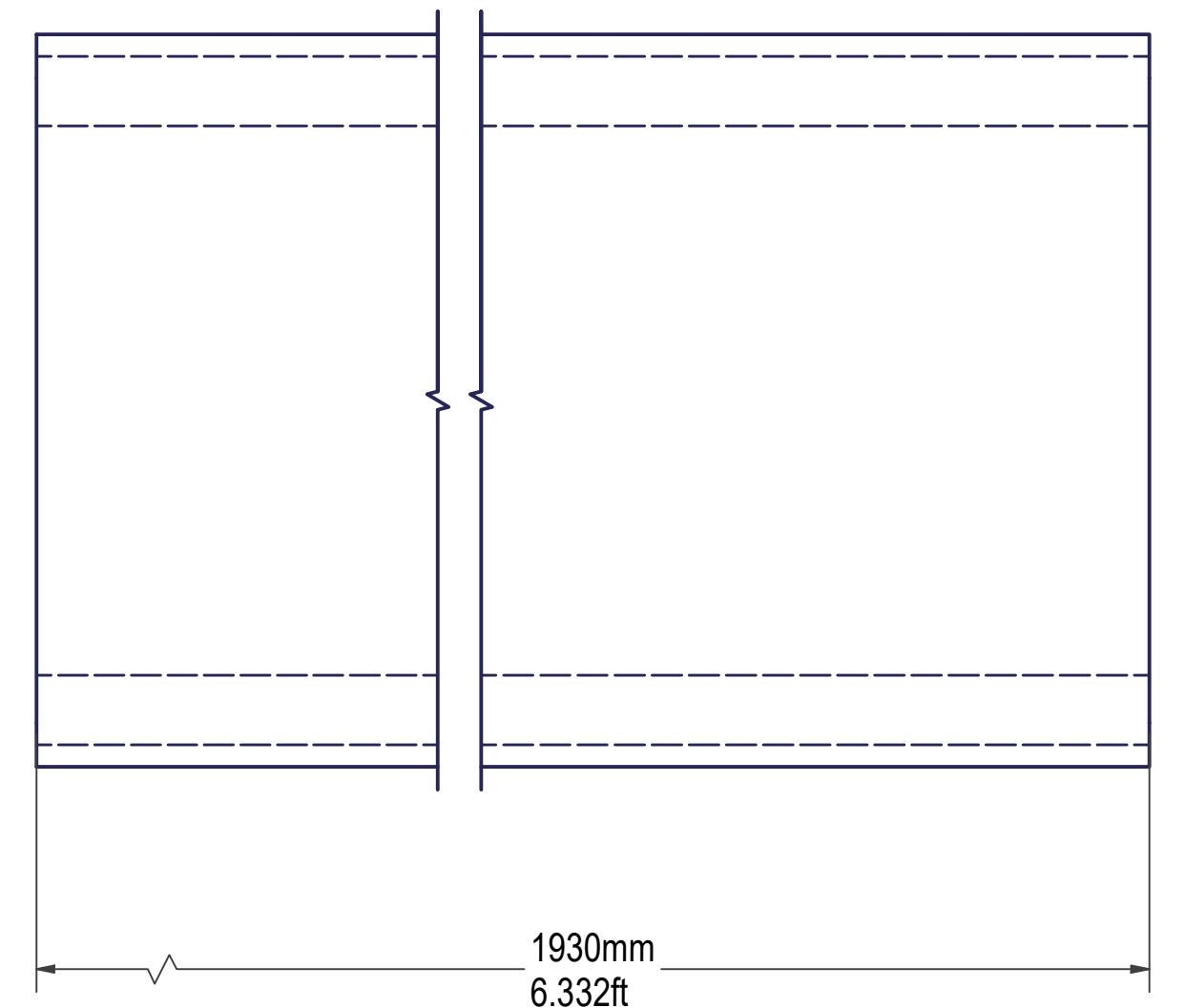
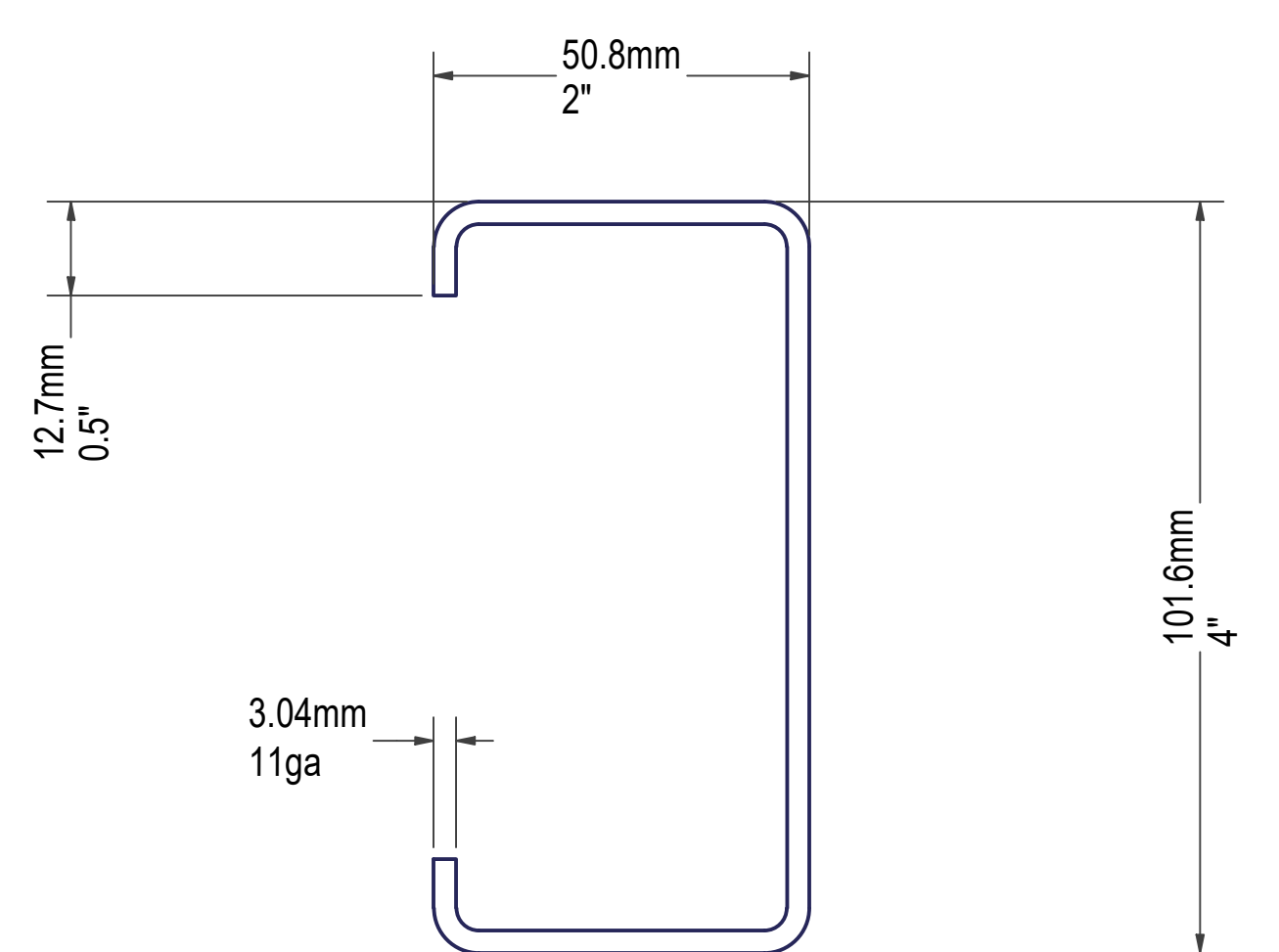
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TITLE
CHANNEL 2"x4"

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	TOLERANCE ±0.1 ±0.1 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION		DRAWING NUMBER F_CHANNEL F-4
SHEET 5 OF 10		SIZE B	REVISION 2	



DXF FILE: CHANNEL F-2_1



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3/13/2022

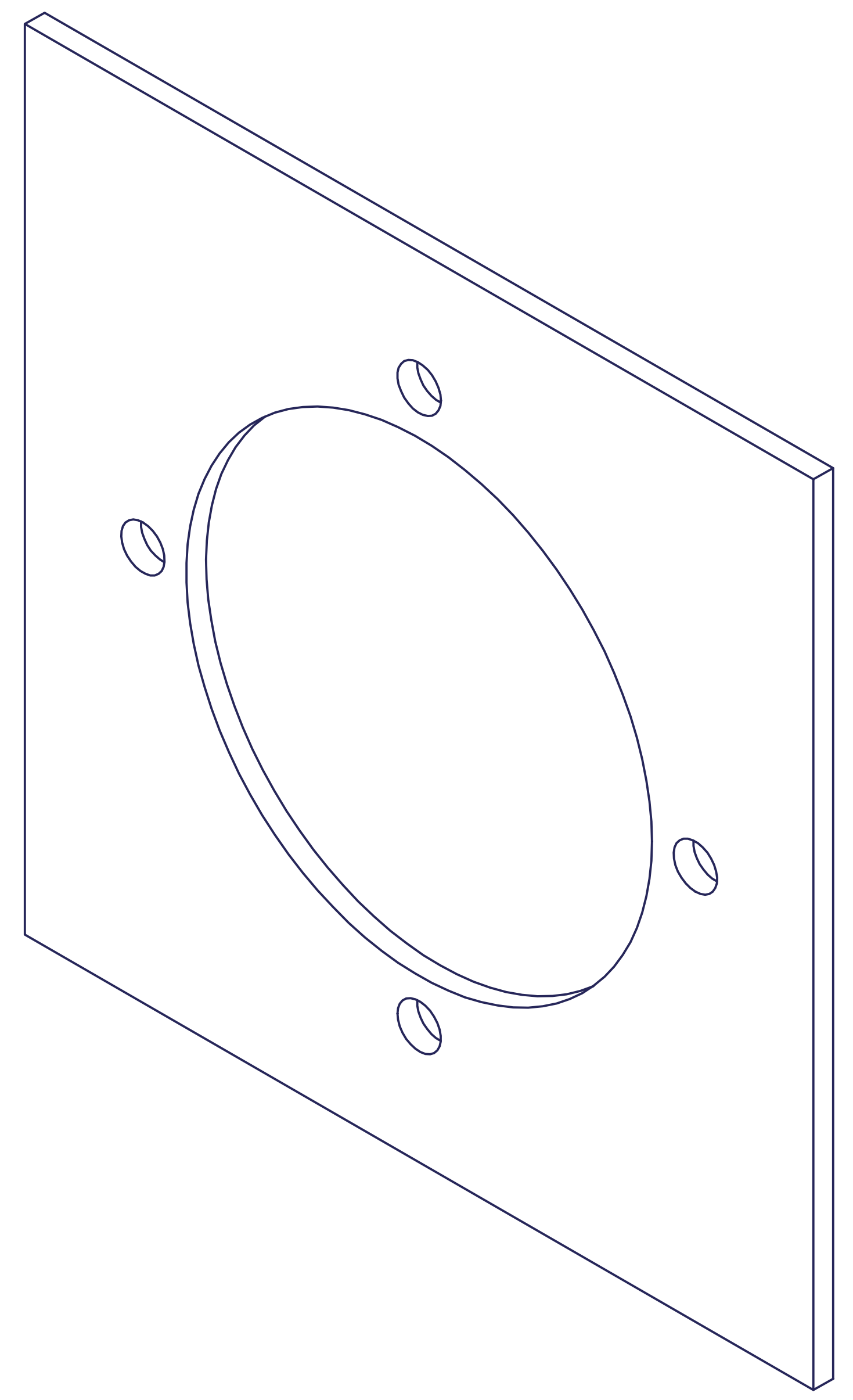
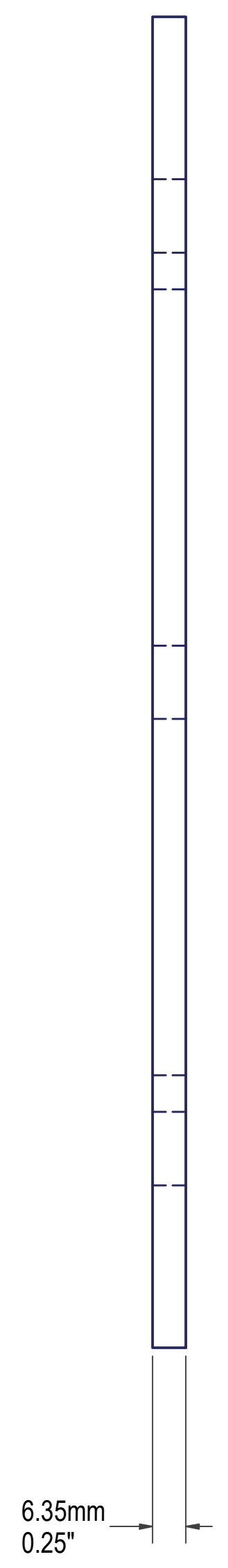
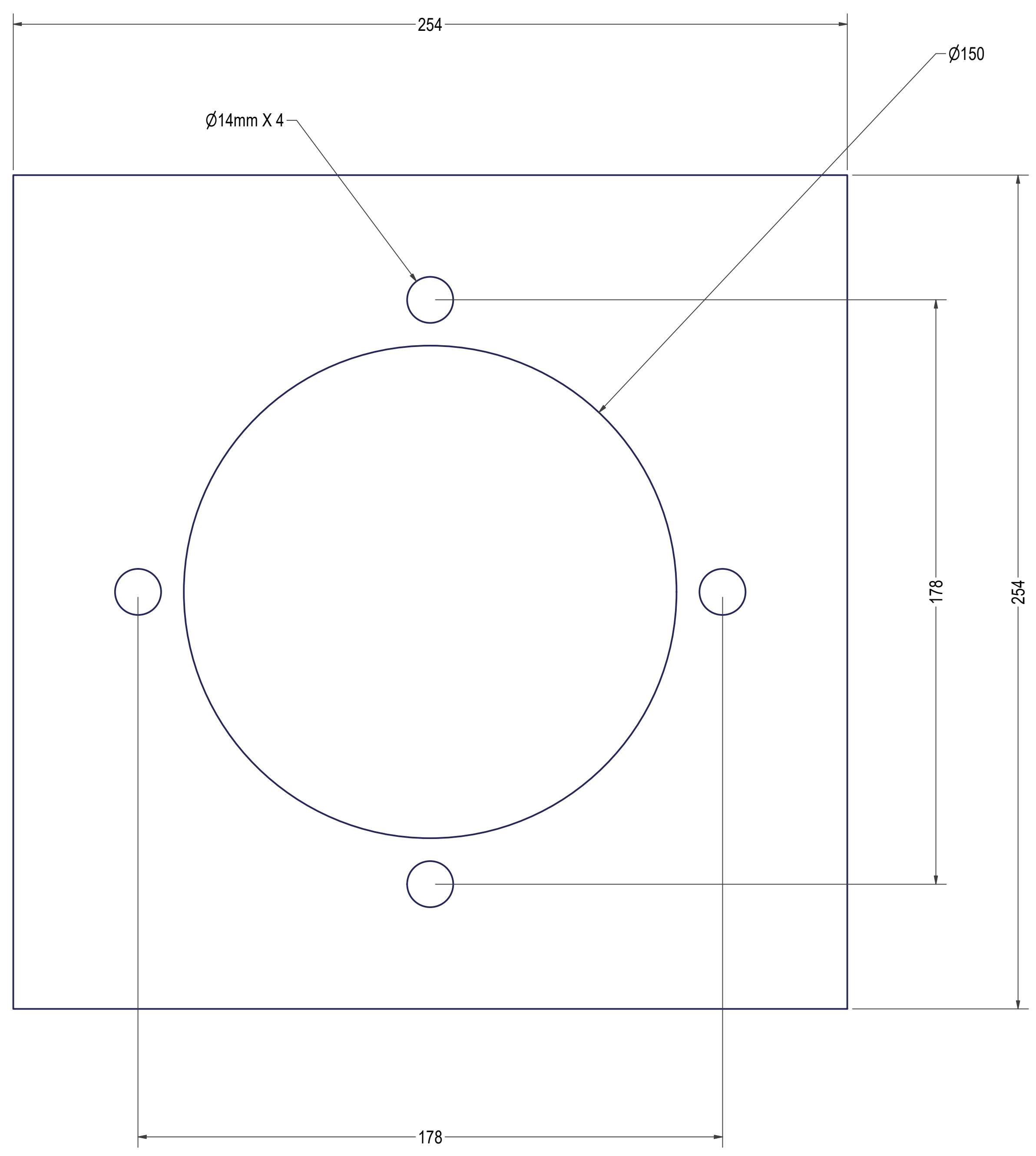
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
CHANNEL 2"x4"

FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS	This print is shared on a confidential basis subject to return upon demand by Osprea and nothing hereon may be reproduced, used or disclosed in whole or in part without the prior written permission of Osprea.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		REMOVE ALL SHARP EDGES AND BURRS	THIRD ANGLE PROJECTION	DRAWING NUMBER F_CHANNEL F-2
		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	SHEET 7 OF 10 SIZE B REVISION 2			
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 12 TO : 25 TO : 40 TO : 60 TO : 100 TO : 150 TO : 200 TO : 300 TO : 400 TO : 500 TO : 600 TO : 800 TO : 1000 TO : 1500 TO : 2000 TO : 3000 TO : 4000 TO : 5000 TO : 6000 TO : 8000 TO : 10000	TOLERANCE ±0.1 ±0.15 ±0.2 ±0.3 ±0.4 ±0.5 ±0.6 ±0.7 ±0.8 ±1.0 ±1.2 ±1.5 ±2.0					



DXF FILE: PLATE BASE FOUNDATION_1

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MATERIAL	Steel ASTM A36
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

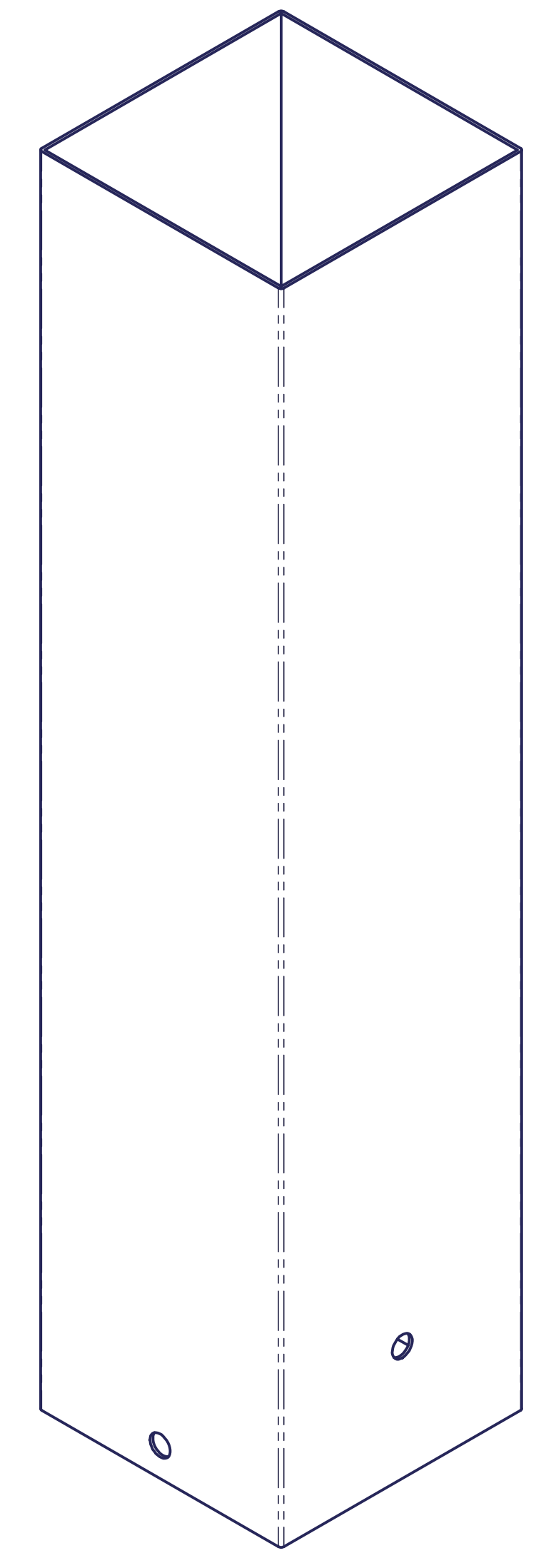
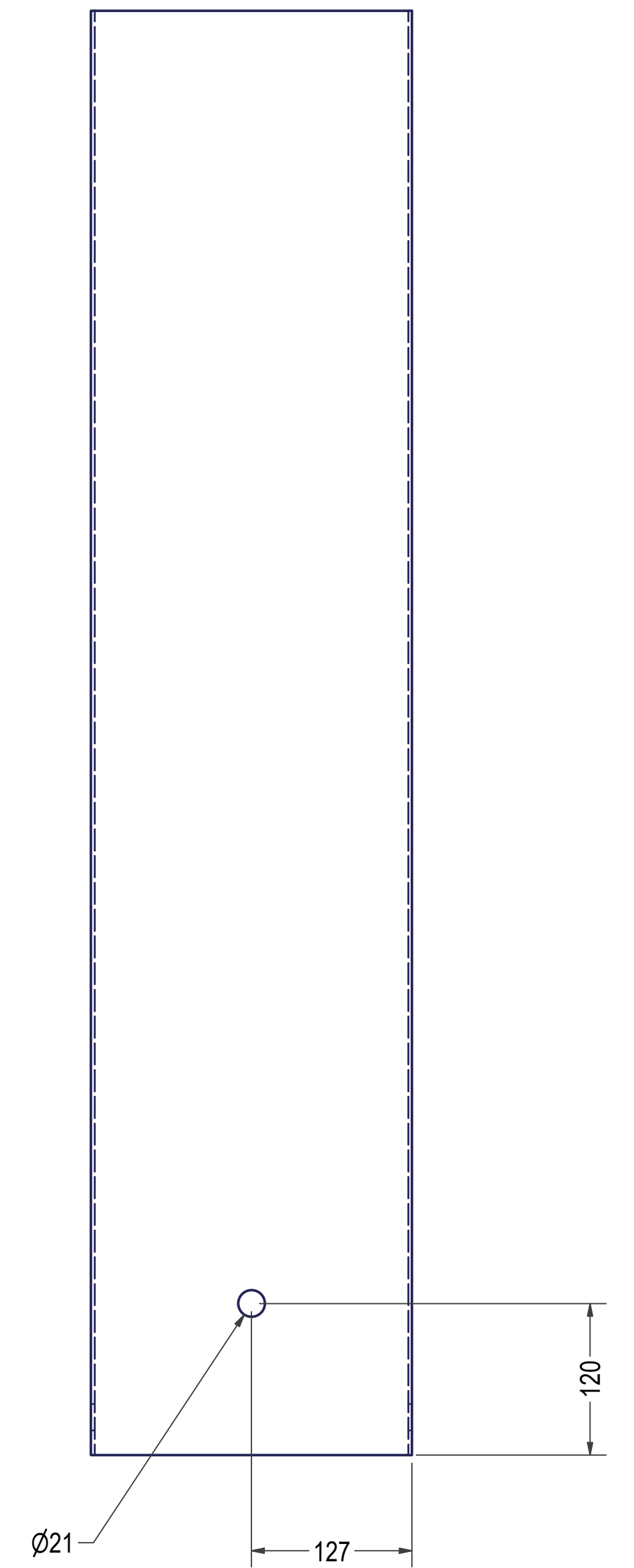
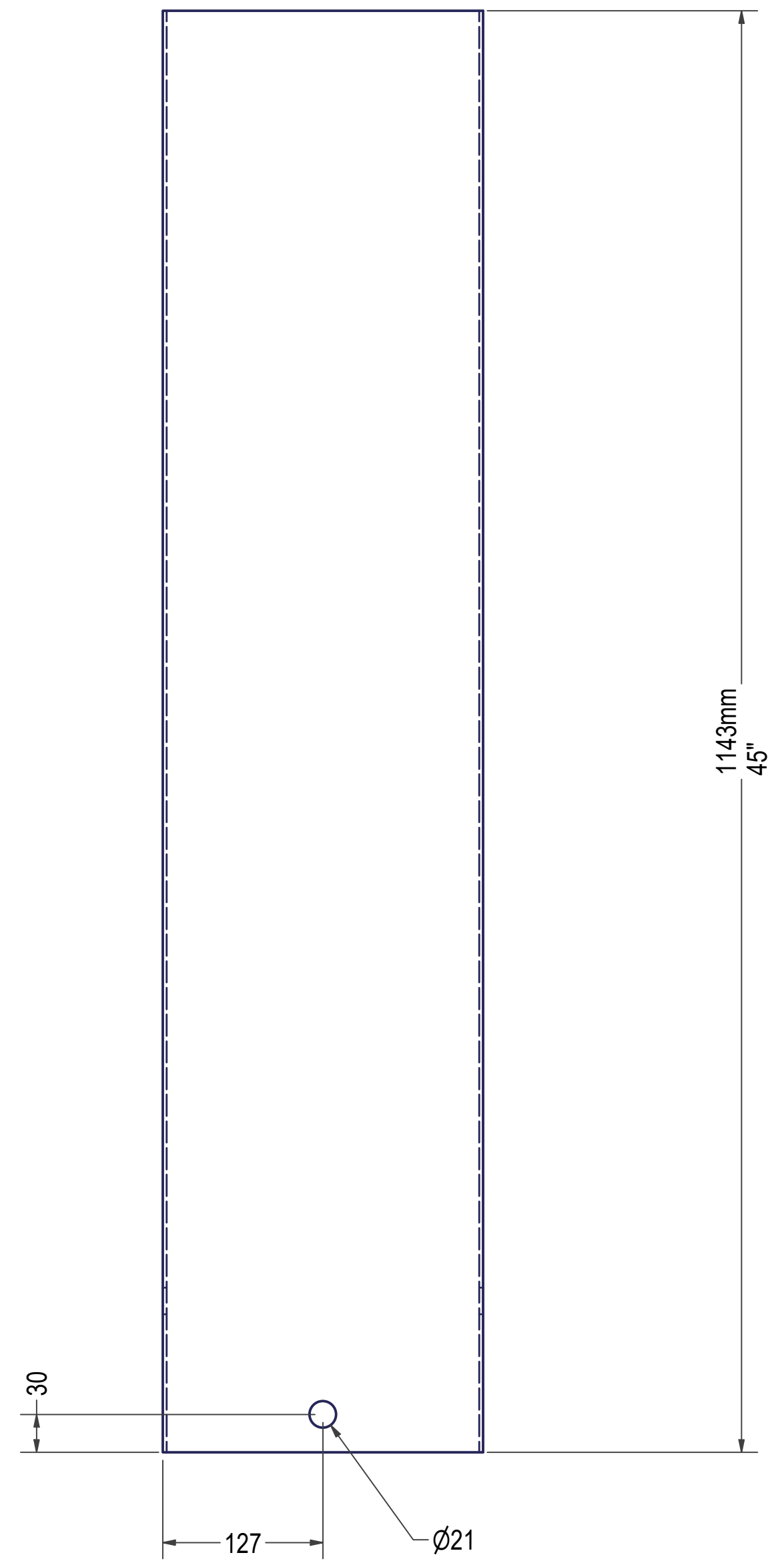
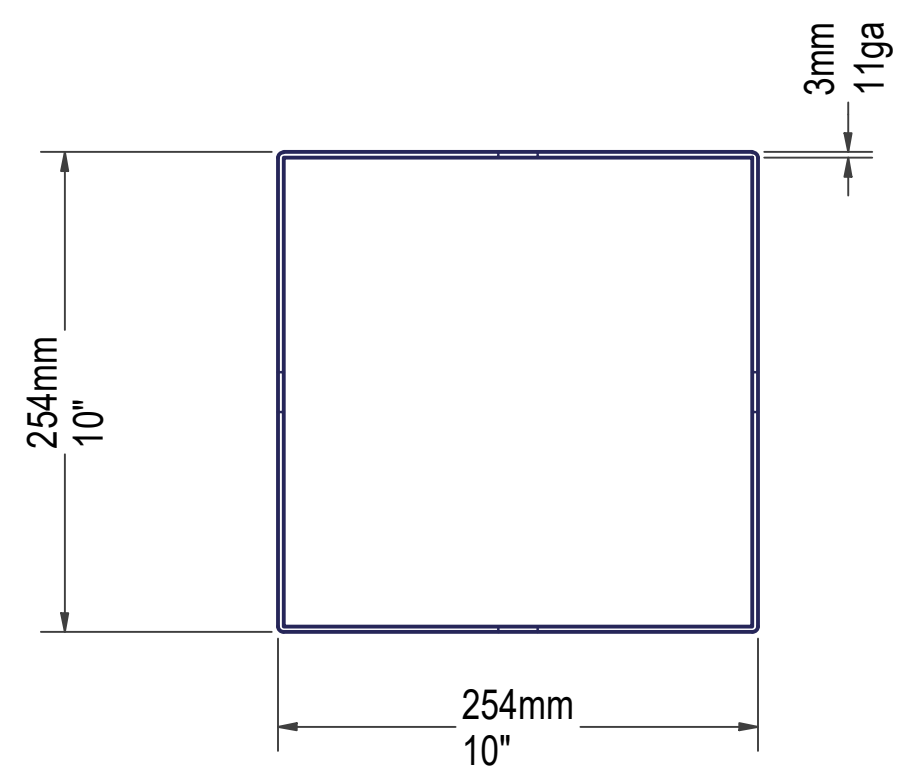
DocuSigned by:
Robert L. Pennington
026439933502F452
 3/13/2022

ROBERT L. PENNINGTON
 PROFESSIONAL ENGINEER
 NORTH CAROLINA
 SEAL
 25045
 WILMINGTON, NC

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 7629 Mallow Road
 Wilmington, NC 28411
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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	THIRD ANGLE PROJECTION	
DRAWING NUMBER: PLATE BASE FOUNDATION		SHEET 6 OF 10		REVISION 2



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Robert L. Pennington
0064993350F452
3/13/2022

NORTH CAROLINA
PROFESSIONAL
SEAL
25045
ENGINEER
ROBERT L. PENNINGTON

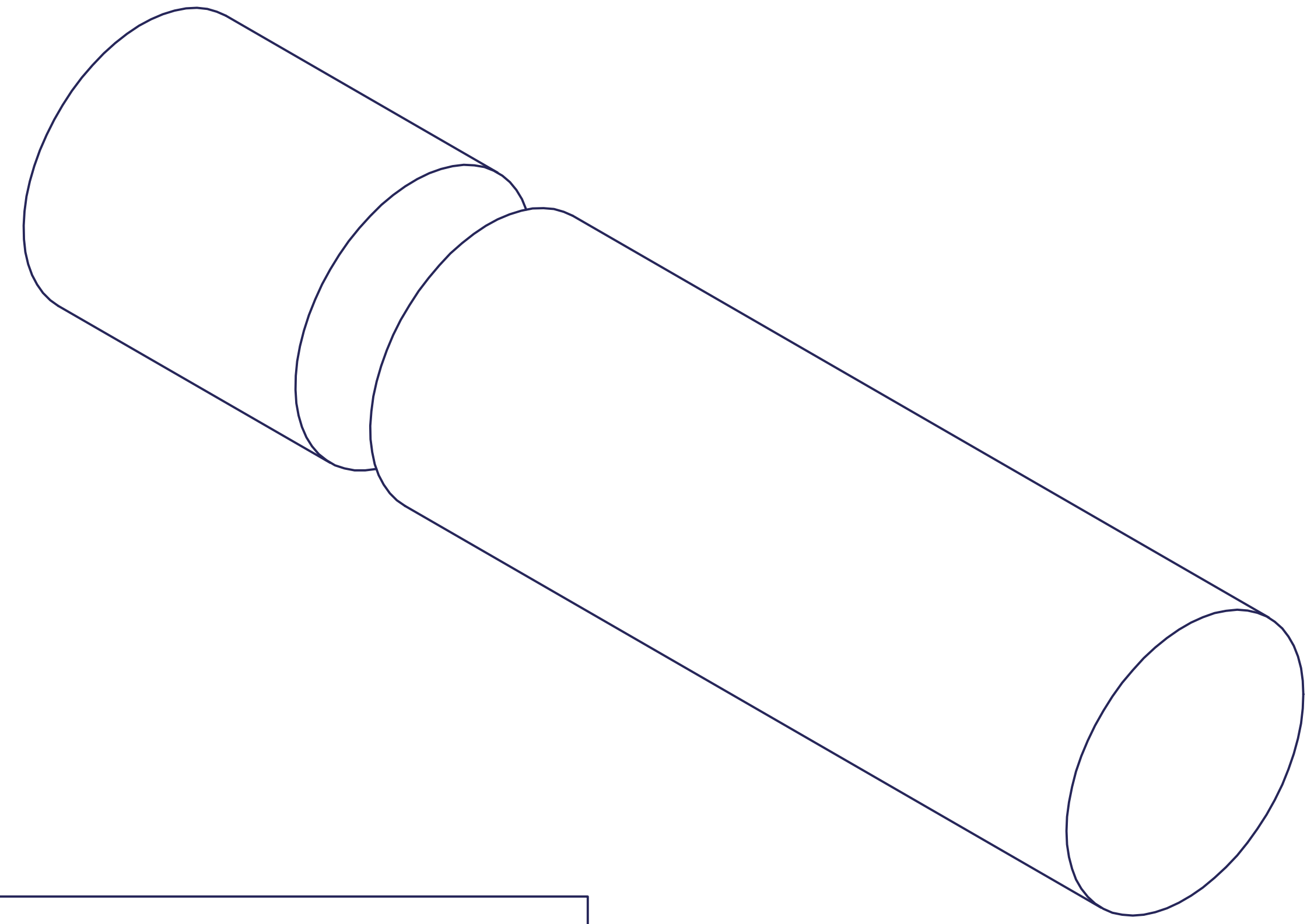
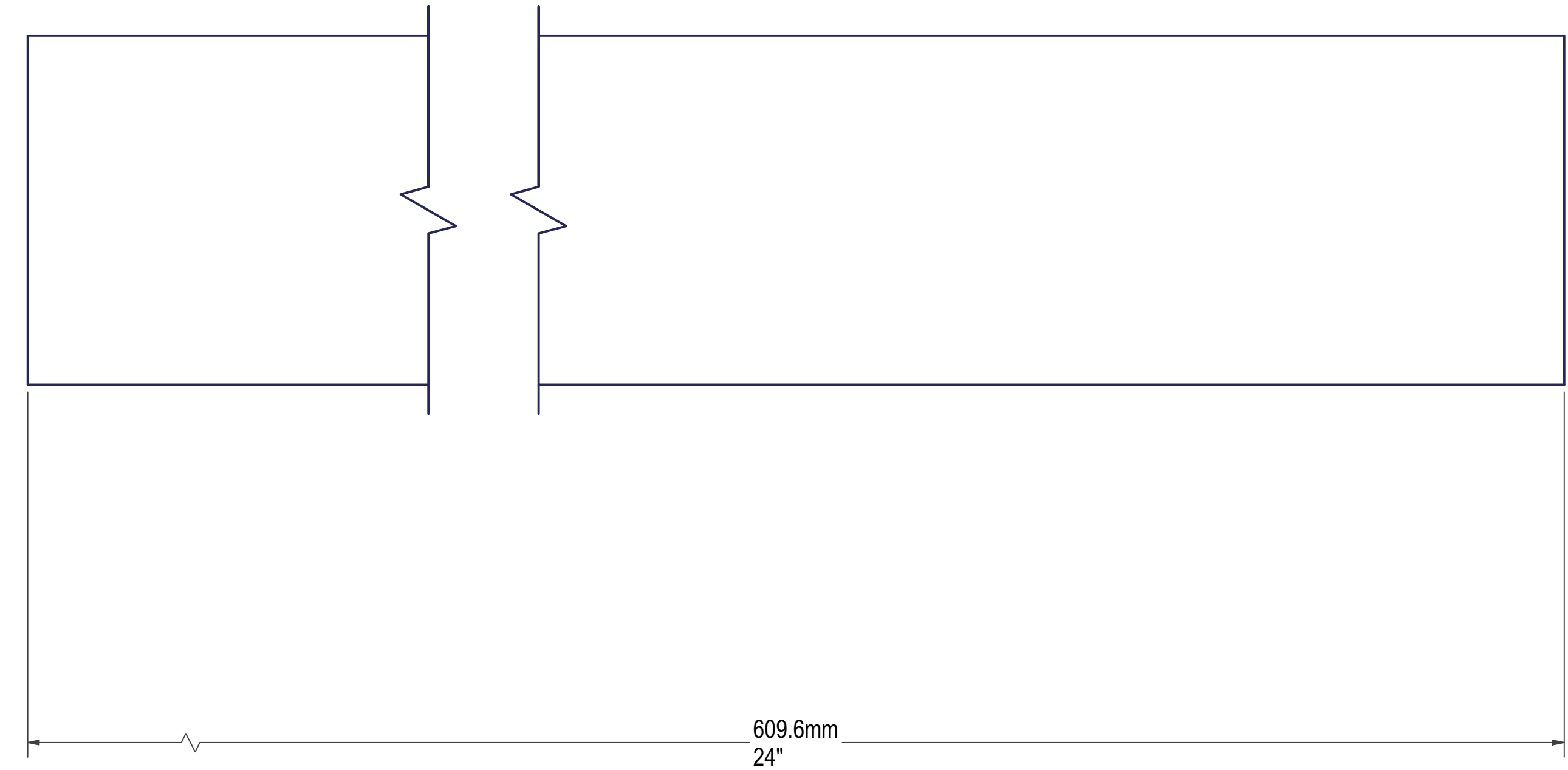
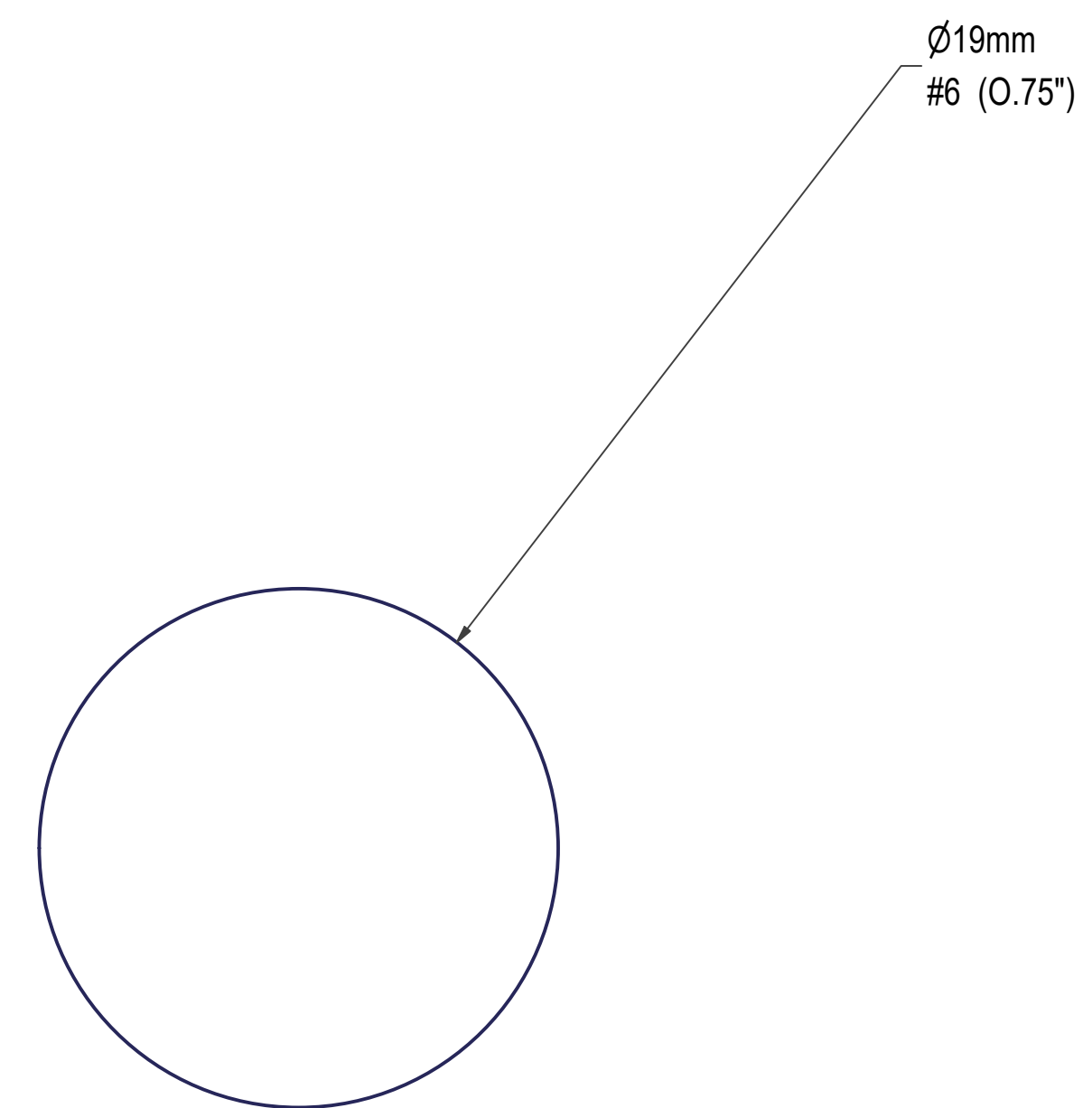
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7629 Mallow Road
Wilmington, NC 28411
Email: robert@RLPPE.com
Phone: 910-520-0278

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MATERIAL	Steel ASTM A500 GR B STRUCTURAL
THICK	
MASS	26.923 kg
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
TUBE PILLAR

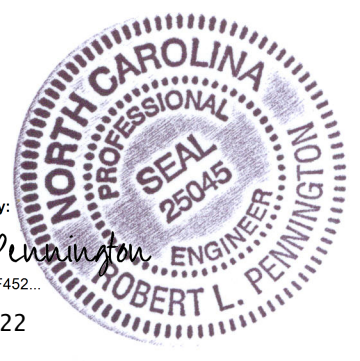
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	LINEAR TO : 0.5 TO : 3 TO : 6 TO : 12 TO : 25 TO : 50 TO : 100 TO : 200 3 6 12 25 50 100 200 400 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0			



MATERIAL: CARBON STEEL ASTM 615

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 Wilmington, NC 28411
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MATERIAL	Generic
THICK	
MASS	0.173 kg
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
RUBAR #6 (0.75" ,19MM)

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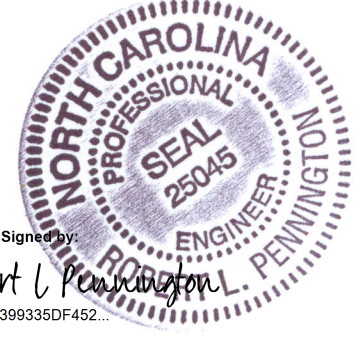
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS									
GENERAL TOLERANCES LINEAR DIMENSIONS									
LINEAR	0.5 TO 3	3 TO 6	6 TO 10	10 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000	2000 TO 4000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0		

REMOVE ALL SHARP EDGES AND BURRS

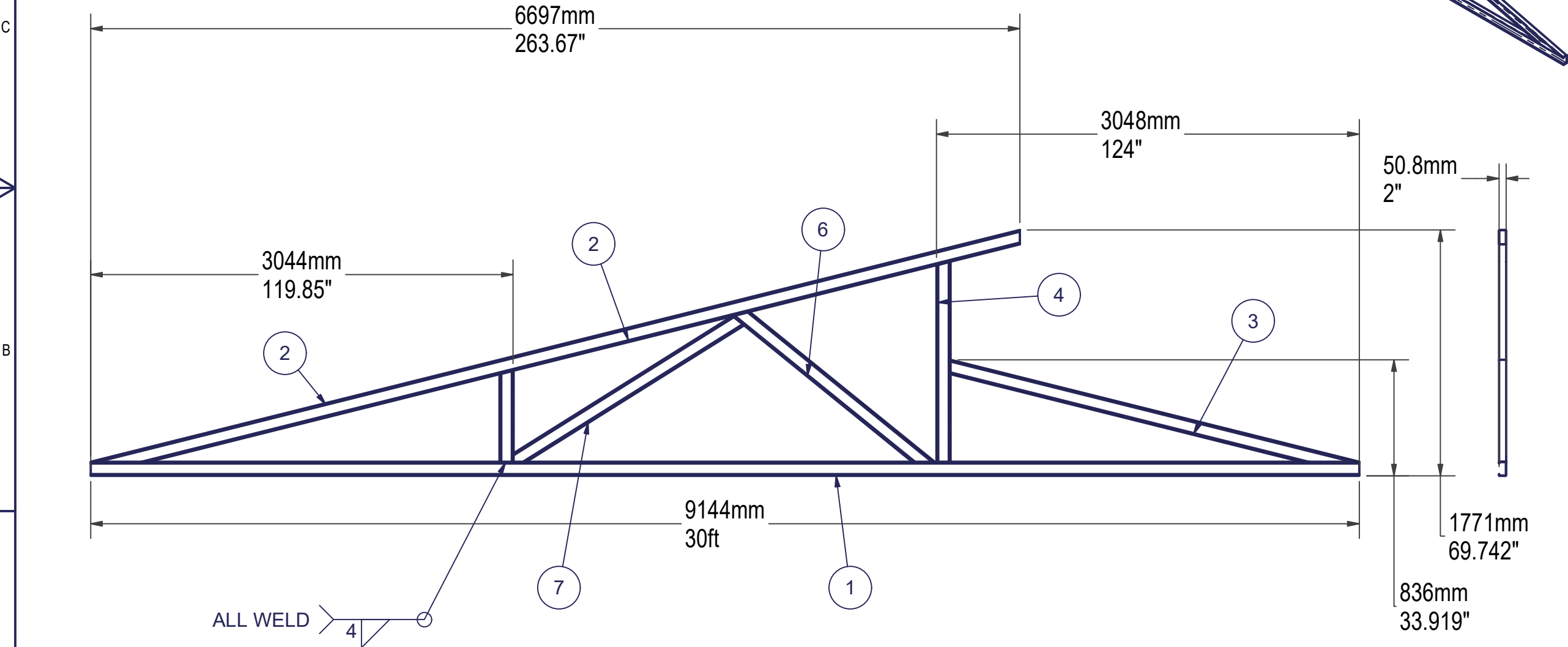
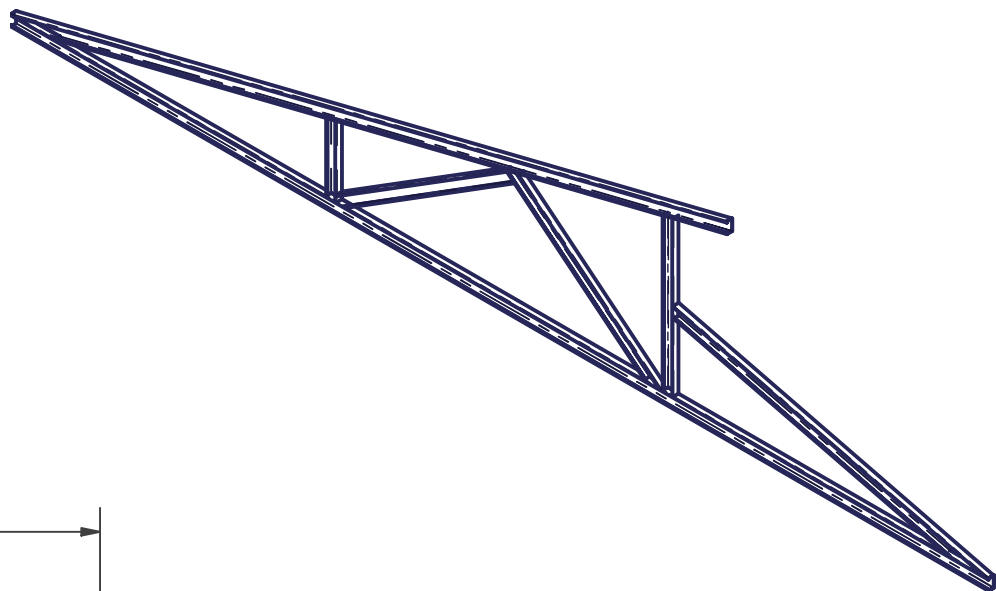
THIRD ANGLE PROJECTION	DRAWING REBAR PILLAR SECTION	SHEET 10 OF 10	SIZE: B	REVISION: 2
------------------------	------------------------------	----------------	---------	-------------

BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	R_CEE CHANNEL_TRUSS1_1	CEE CHANNEL 4"x2"x1/2"
2	1	R_CEE CHANNEL_TRUSS1_2R	CEE CHANNEL 4"x2"x1/2"
3	1	R_CEE CHANNEL_TRUSS1_3R	CEE CHANNEL 4"x2"x1/2"
4	1	R_CEE CHANNEL_TRUSS1_4R	CEE CHANNEL 4"x2"x1/2"
5	1	R_CEE CHANNEL_TRUSS1_5R	CEE CHANNEL 4"x2"x1/2"
6	1	R_CEE CHANNEL_TRUSS1_6R	CEE CHANNEL 4"x2"x1/2"
7	1	R_CEE CHANNEL_TRUSS1_7R	CEE CHANNEL 4"x2"x1/2"

REVISION HISTORY					
ZONE	REV	DESCRIPTION	ENG	ECO	DATE
	1	INITIAL RELEASE			3/11/2022



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 Wilmington, NC 28411
 Email: robert@RLPPE.com
 Phone: 910-520-0278



DXF FILE:
R_CHICKADEE_TRUSS 2_1

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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	3/11/2022



TITLE
R_CHICKADEE_TRUSS 2

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		GENERAL TOLERANCES LINEAR DIMENSIONS										
LINEAR	0.5 TO ±0.1	3 TO ±0.1	6 TO ±0.2	30 TO ±0.3	120 TO ±0.5	400 TO ±0.8	1000 TO ±1.2	2000 TO ±2.0				

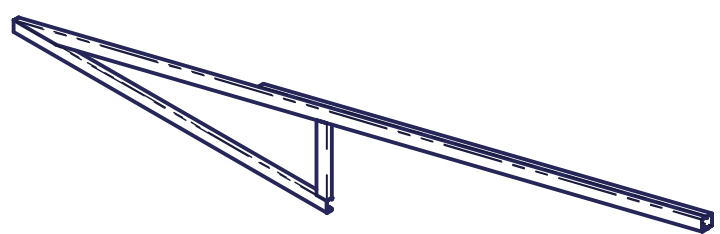
BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	R_CEE CHANNEL_TRUSS1_2	CEE CHANNEL 4"X2"X1/2"
5	1	R_CEE CHANNEL_TRUSS1_5	CEE CHANNEL 4"X2"X1/2"
8	1	R_CEE CHANNEL_TRUSS1_8	CEE CHANNEL 4"X2"X1/2"
9	1	R_CEE CHANNEL_TRUSS1_10	CEE CHANNEL 4"X2"X1/2"

REVISION HISTORY					
ZONE	REV	DESCRIPTION	ENG	ECO	DATE
	1	INITIAL RELEASE			3/12/2022

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DXF FILE:
R_CHICKADEE_TRUSS 3_1

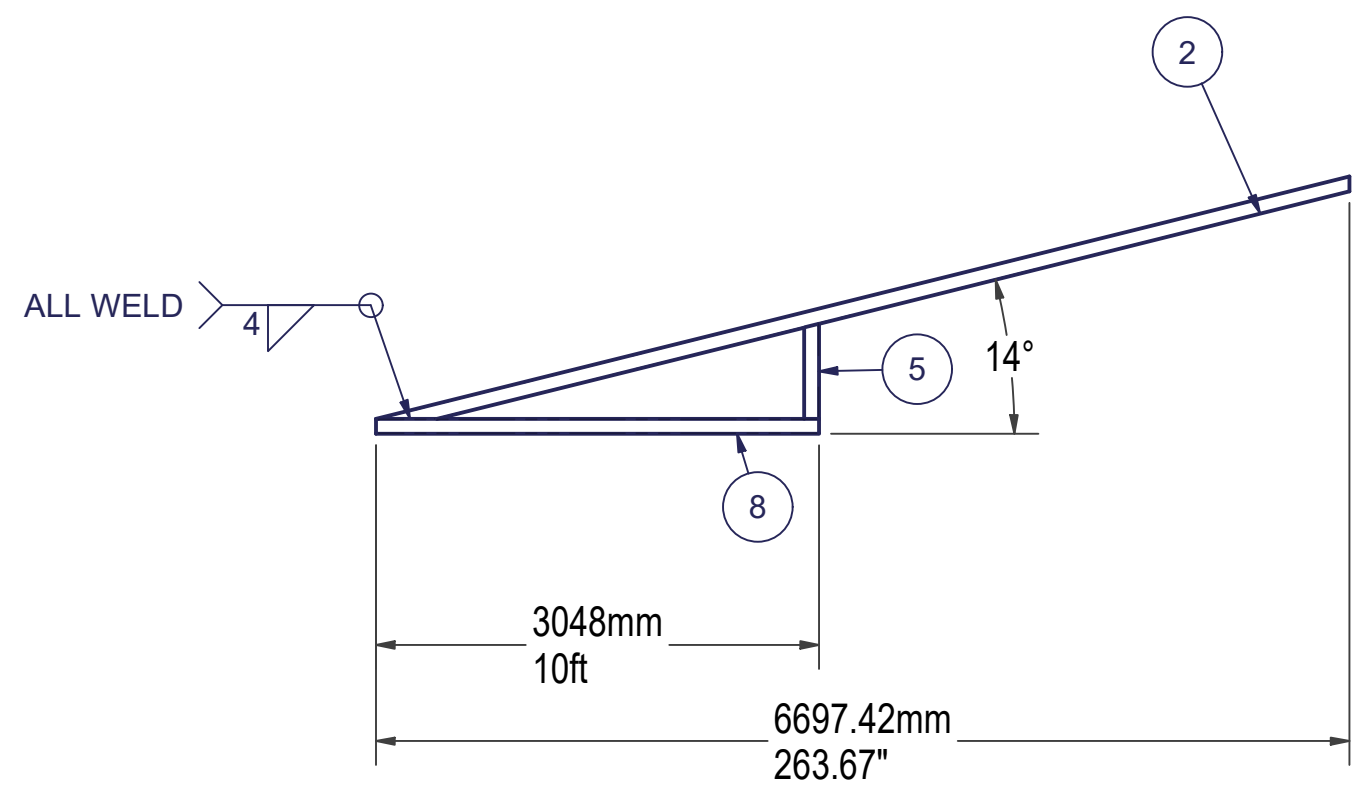
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	3/12/2022



TITLE
R_CHICKADEE_TRUSS 3



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GENERAL TOLERANCES LINEAR DIMENSIONS							
LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000
TO	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
TO							±2.0

ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK

REMOVE ALL SHARP EDGES AND BURRS

THIRD ANGLE PROJECTION

DRAWING NUMBER
R_CHICKADEE_TRUSS 3

SHEET 1 OF 1 SIZE: B REVISION: 1

6	5	4	3	2	1
---	---	---	---	---	---

BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	R_CEE CHANNEL_TRUSS1_3	CEE CHANNEL 4"X2"X1/2"
2	1	R_CEE CHANNEL_TRUSS1_4	CEE CHANNEL 4"X2"X1/2"
3	1	R_CEE CHANNEL_TRUSS1_9	CEE CHANNEL 4"X2"X1/2"

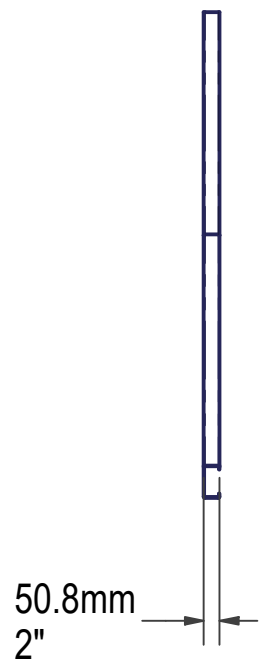
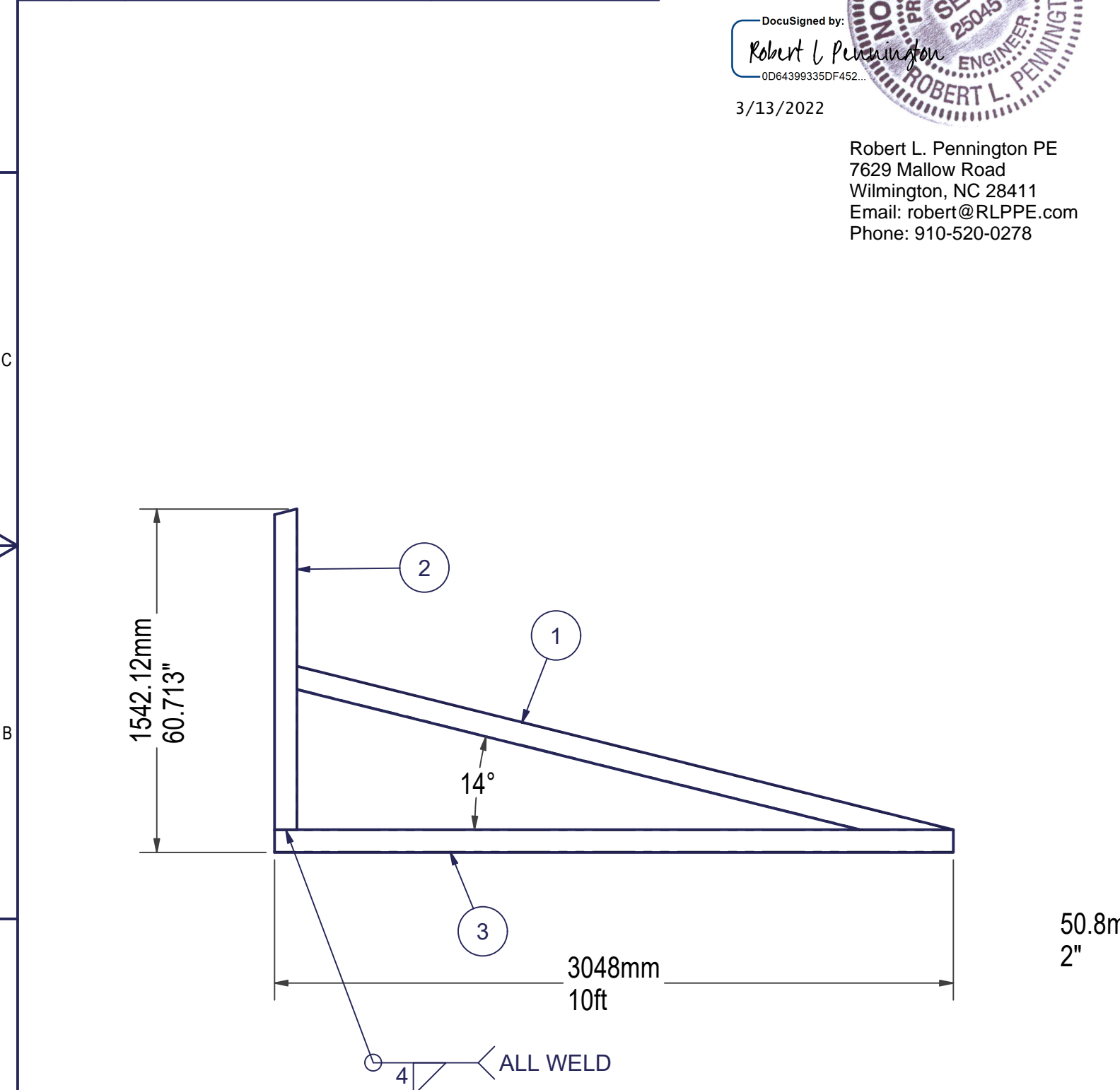
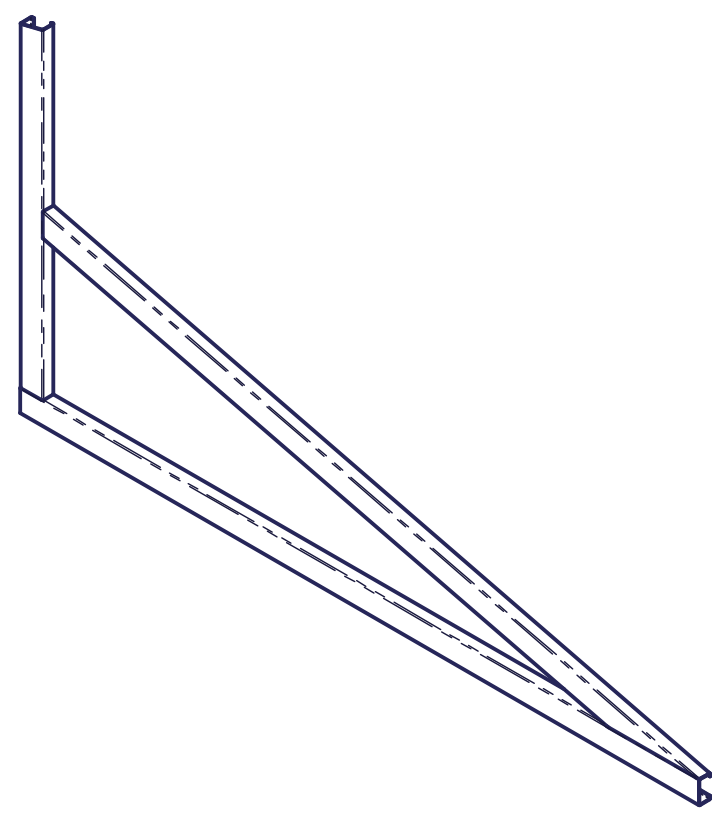
REVISION HISTORY					
ZONE	REV	DESCRIPTION	ENG	ECO	DATE
	1	INITIAL RELEASE			3/12/2022

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 3/13/2022



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DXF FILE:
R_CHICKADEE_TRUSS 5_1

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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	3/12/2022



TITLE
R_CHICKADEE_TRUSS 5

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

GENERAL TOLERANCES LINEAR DIMENSIONS							
LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000
	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2

ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK

REMOVE ALL SHARP EDGES AND BURRS

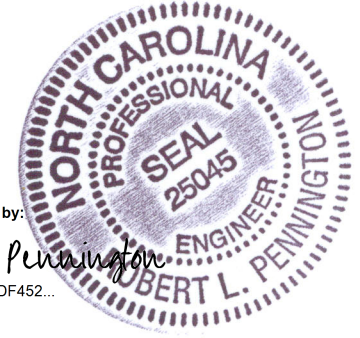
THIRD ANGLE PROJECTION

DRAWING NUMBER
R_CHICKADEE_TRUSS 5

SHEET 1 OF 1 SIZE: B REVISION: 1

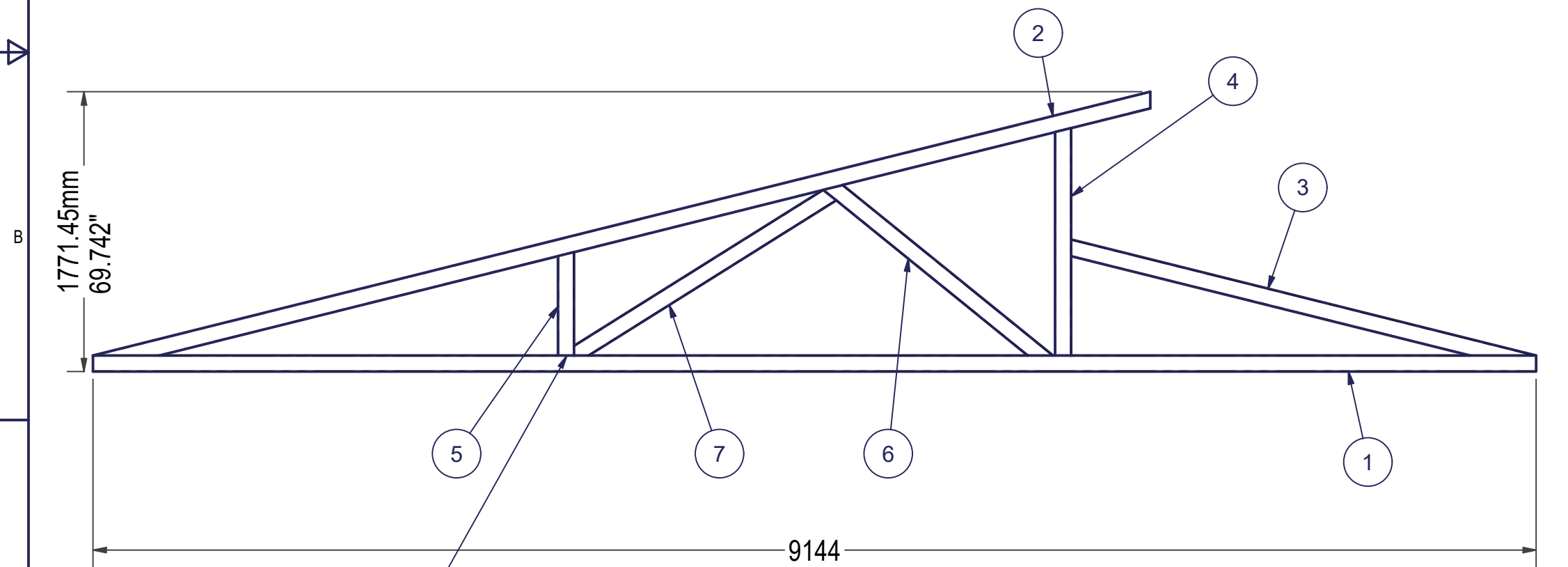
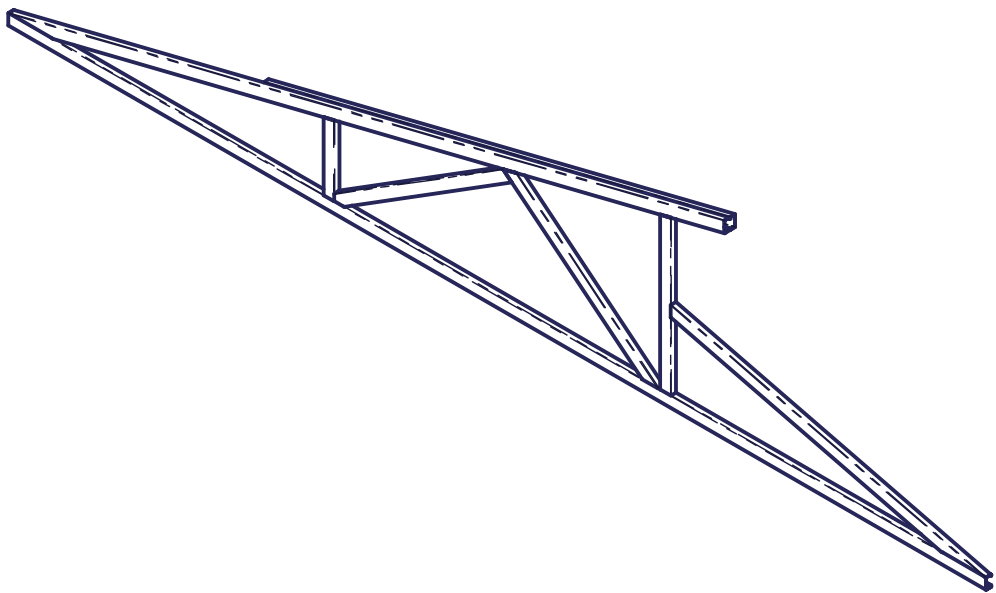
BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	R_CEE CHANNEL_TRUSS1_1	CEE CHANNEL 4"X2"X1/2"
2	1	R_CEE CHANNEL_TRUSS1_2	CEE CHANNEL 4"X2"X1/2"
3	1	R_CEE CHANNEL_TRUSS1_3	CEE CHANNEL 4"X2"X1/2"
4	1	R_CEE CHANNEL_TRUSS1_4	CEE CHANNEL 4"X2"X1/2"
5	1	R_CEE CHANNEL_TRUSS1_5	CEE CHANNEL 4"X2"X1/2"
6	1	R_CEE CHANNEL_TRUSS1_6	CEE CHANNEL 4"X2"X1/2"
7	1	R_CEE CHANNEL_TRUSS1_7	CEE CHANNEL 4"X2"X1/2"
8	1	R_CEE CHANNEL_TRUSS1_10	CEE CHANNEL 4"X2"X1/2"

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 0D64399335DF452...



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 Phone: 910-520-0278

REVISION HISTORY					
ZONE	REV	DESCRIPTION	ENG	ECO	DATE
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DXF FILE:
R_CHICKADEE_TRUSS 7_1

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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	3/12/2022



TITLE
R_CHICKADEE_TRUSS 7

ALL WELD

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GENERAL TOLERANCES LINEAR DIMENSIONS							
LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000
TO	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
TO							±2.0

ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK

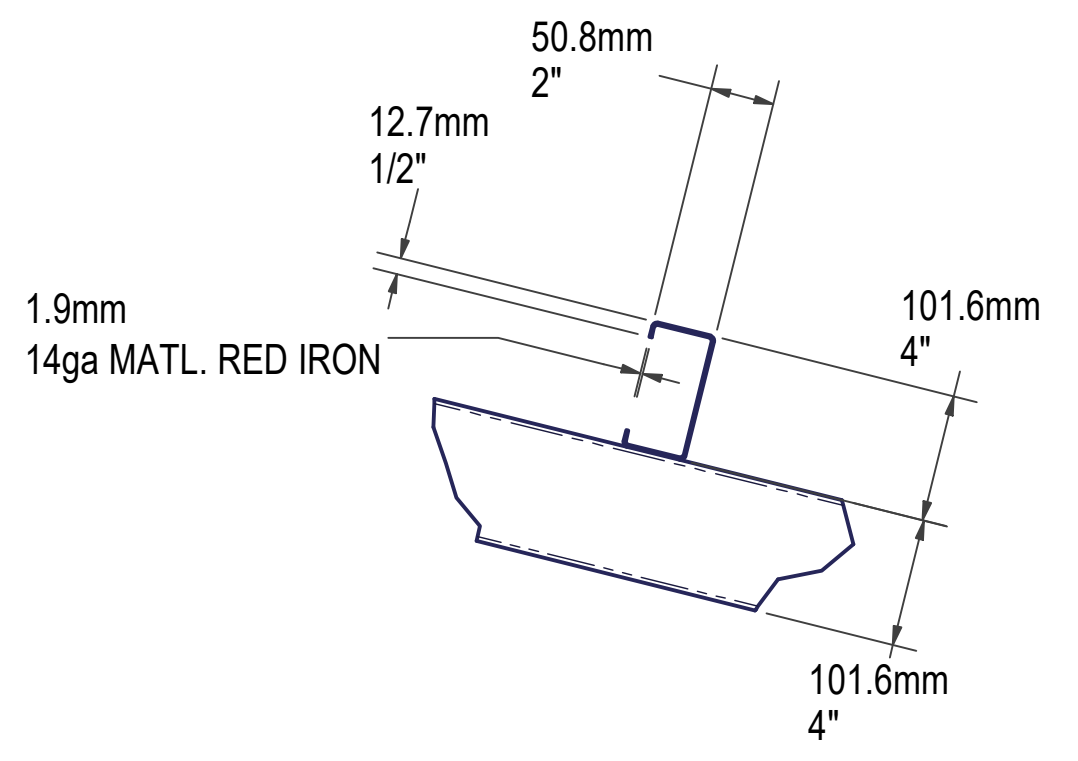
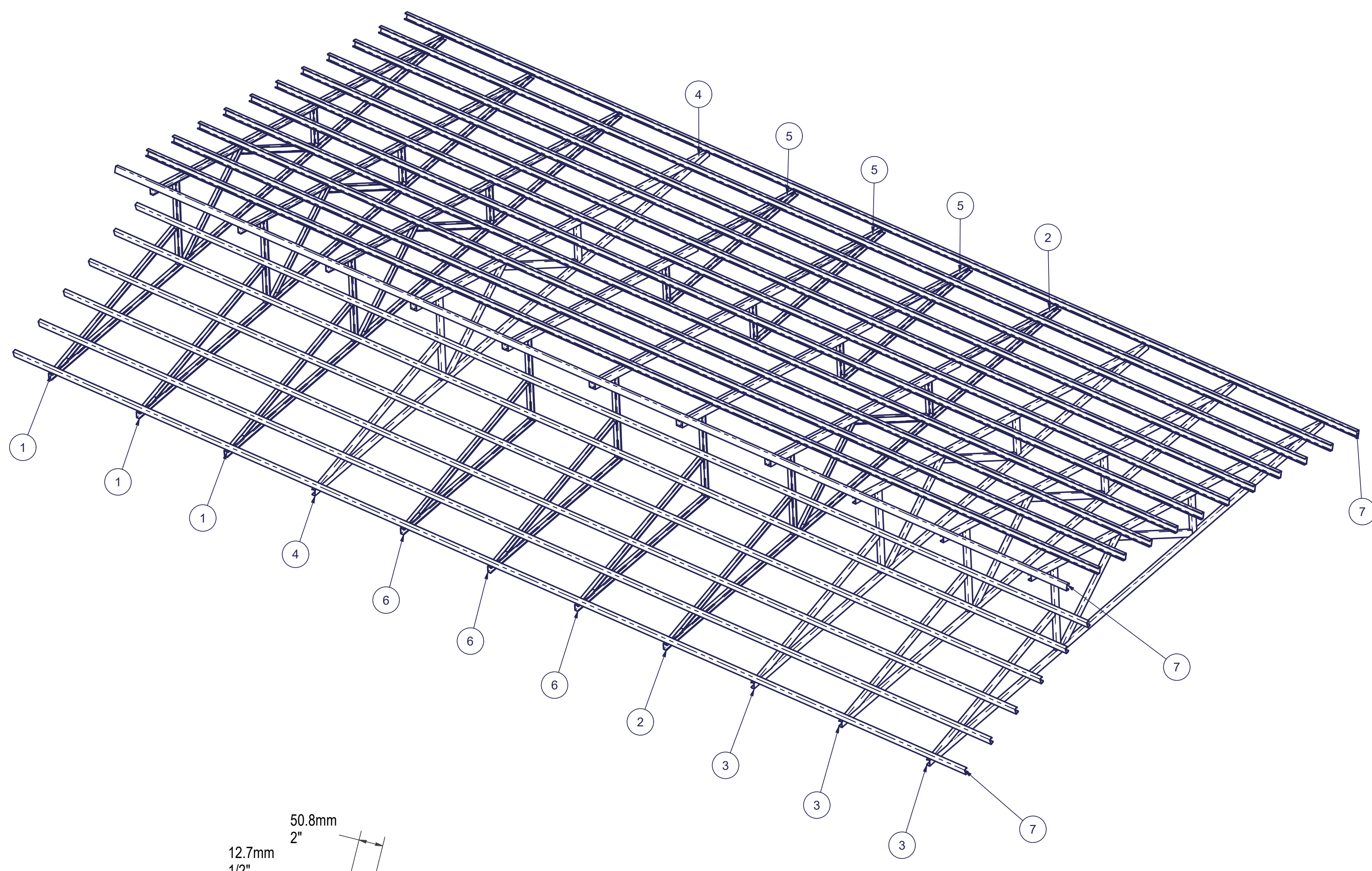
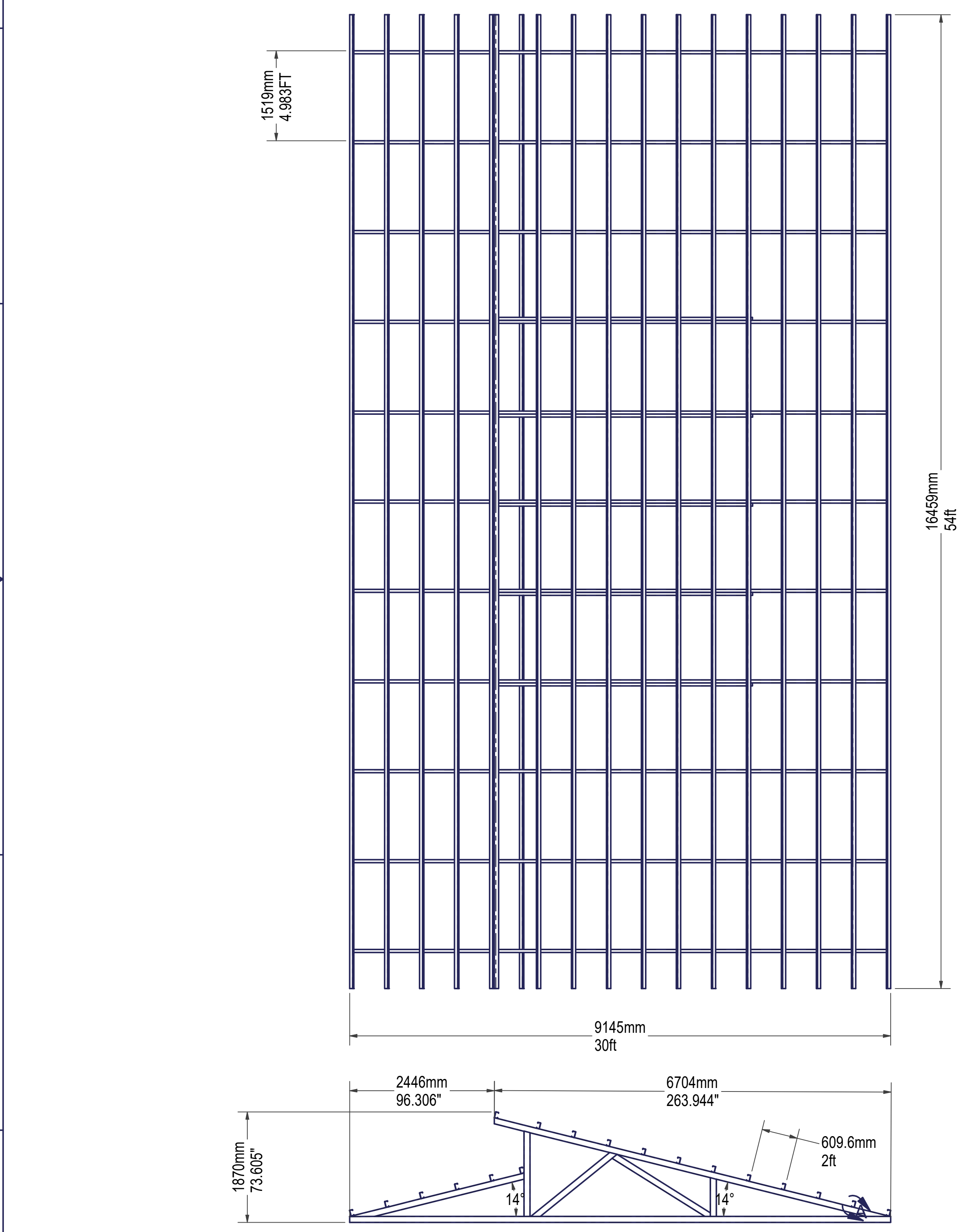
REMOVE ALL SHARP EDGES AND BURRS

THIRD ANGLE PROJECTION

DRAWING NUMBER
R_CHICKADEE_TRUSS 7

SHEET 1 OF 1 SIZE: B REVISION: 1

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	3	R_CHICKADEE_TRUSS 1		R_CHICKADEE_TRUSS 1
2	1	R_CHICKADEE_TRUSS 7		R_CHICKADEE_TRUSS 7
3	3	R_CHICKADEE_TRUSS 2		R_CHICKADEE_TRUSS 2
4	1	R_CHICKADEE_TRUSS 8		R_CHICKADEE_TRUSS 8
5	3	R_CHICKADEE_TRUSS 3		R_CHICKADEE_TRUSS 3
6	3	R_CHICKADEE_TRUSS 5		R_CHICKADEE_TRUSS 5
7	18	R_CEE CHANNEL_PURLIN1		CEE CHANNEL 4"X2"X1/2"



DETAIL A
SCALE 1 / 6

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0064993350F452
3/13/2022



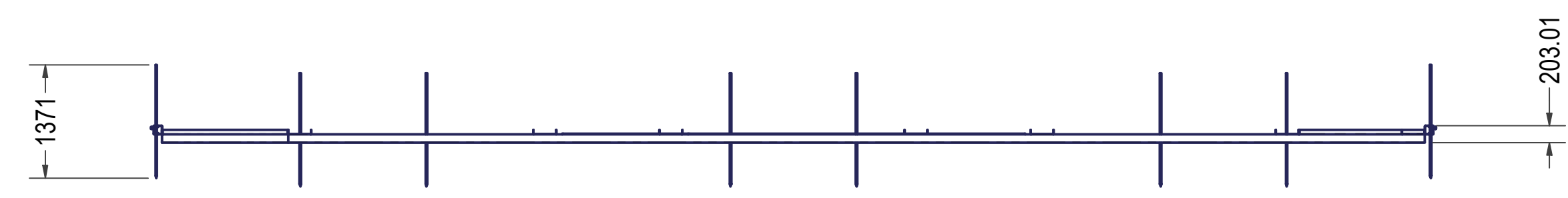
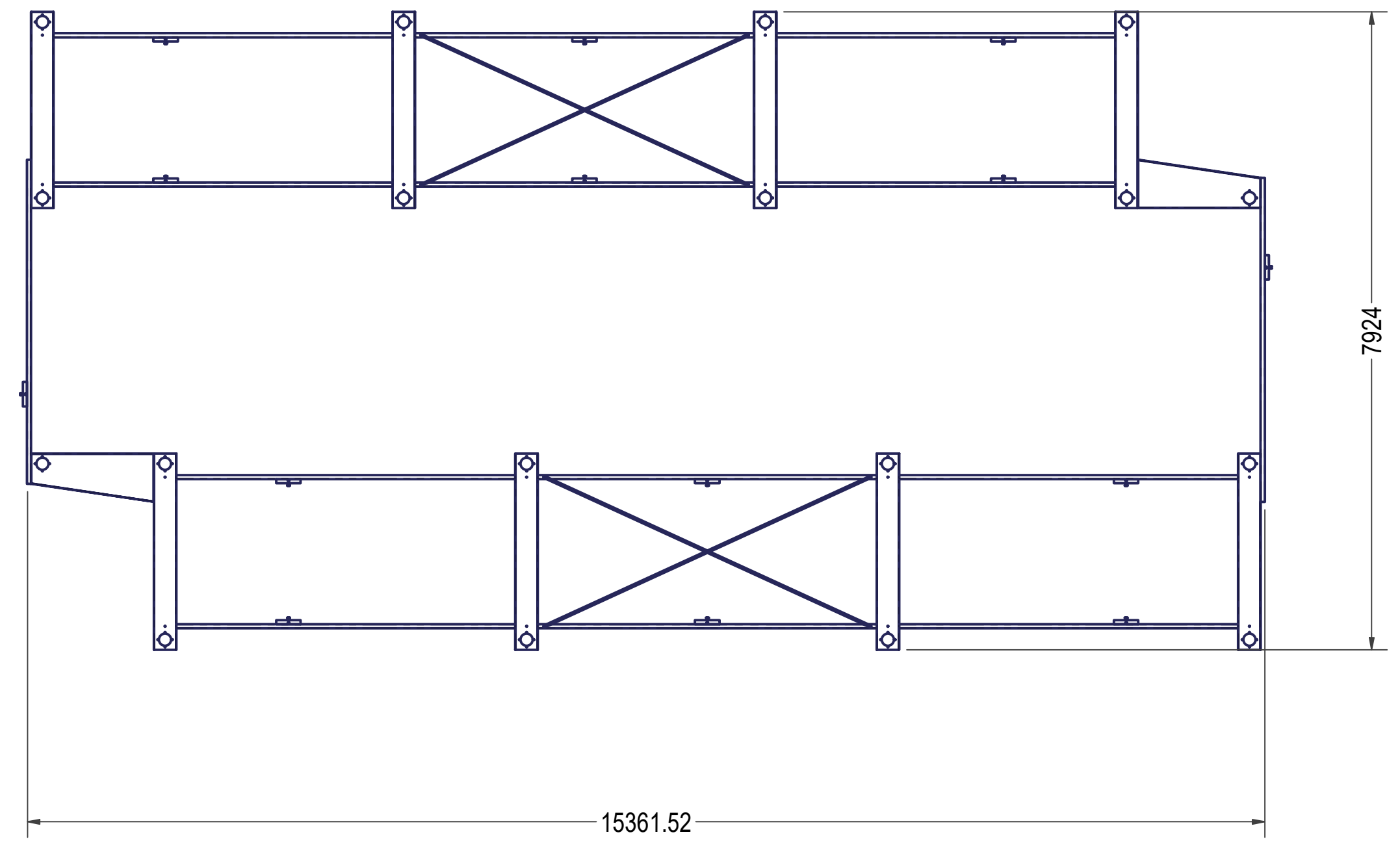
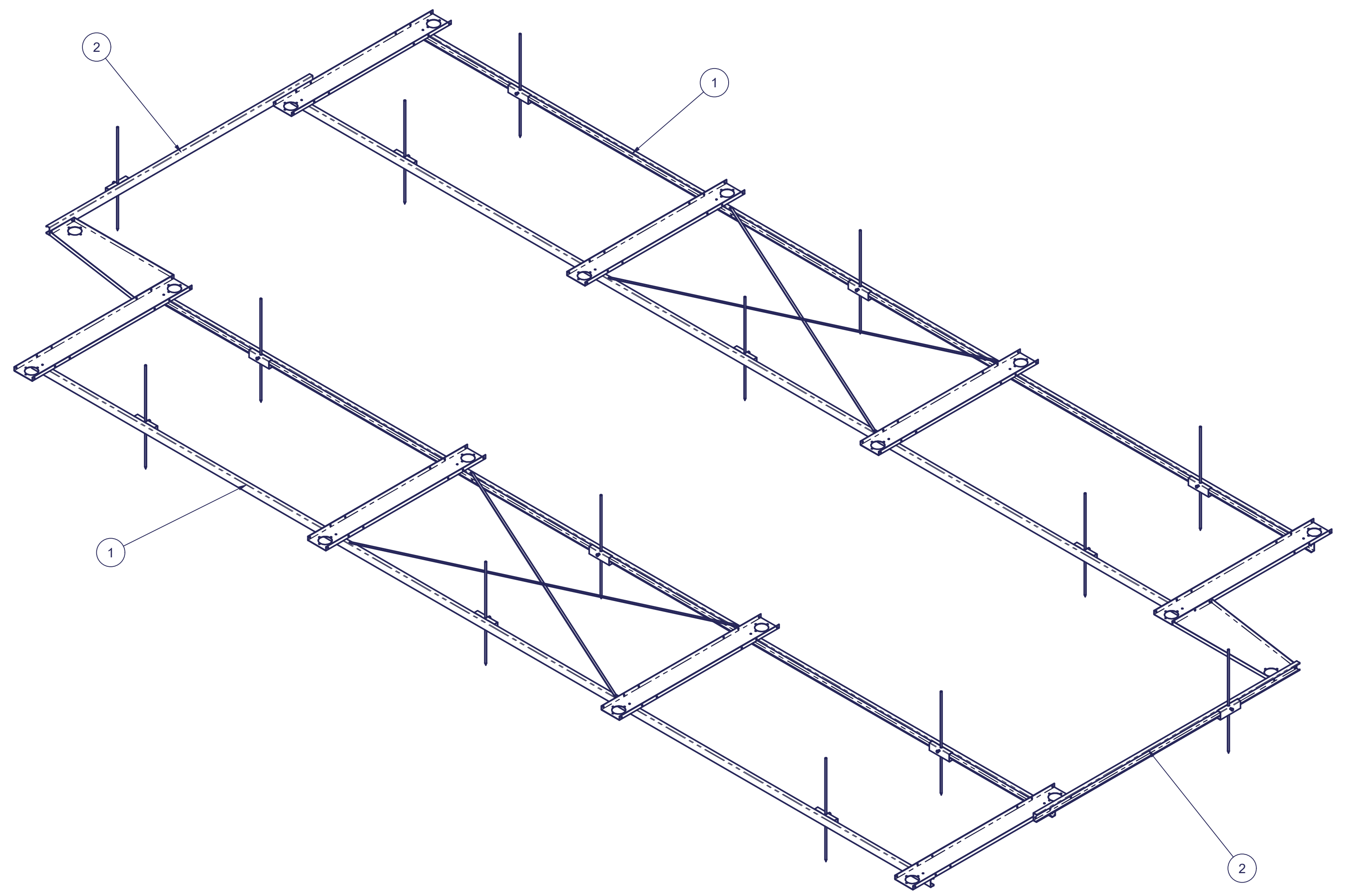
Robert L. Pennington PE
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Wilmington, NC 28411
Email: robert@RLPPE.com
Phone: 910-520-0278

TITLE
ROOF STRUCTURE ASSY

R² CHICKAREE ROOF
STRUCTURE ASSY1
SHEET 2 OF 2 | SIZE: B | REVISION: 1

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	2	JIG FRAME ASSY-FOUND-S1	JIGGING ASSEMBLY 40FT	
2	2	JIG FRAME ASSY-FOUND-S2	JIGGING ASSEMBLY MODEL1 - 10FT SPACING	

ZONE	REV	DESCRIPTION	ENG	DATE
	1			2/20/2022



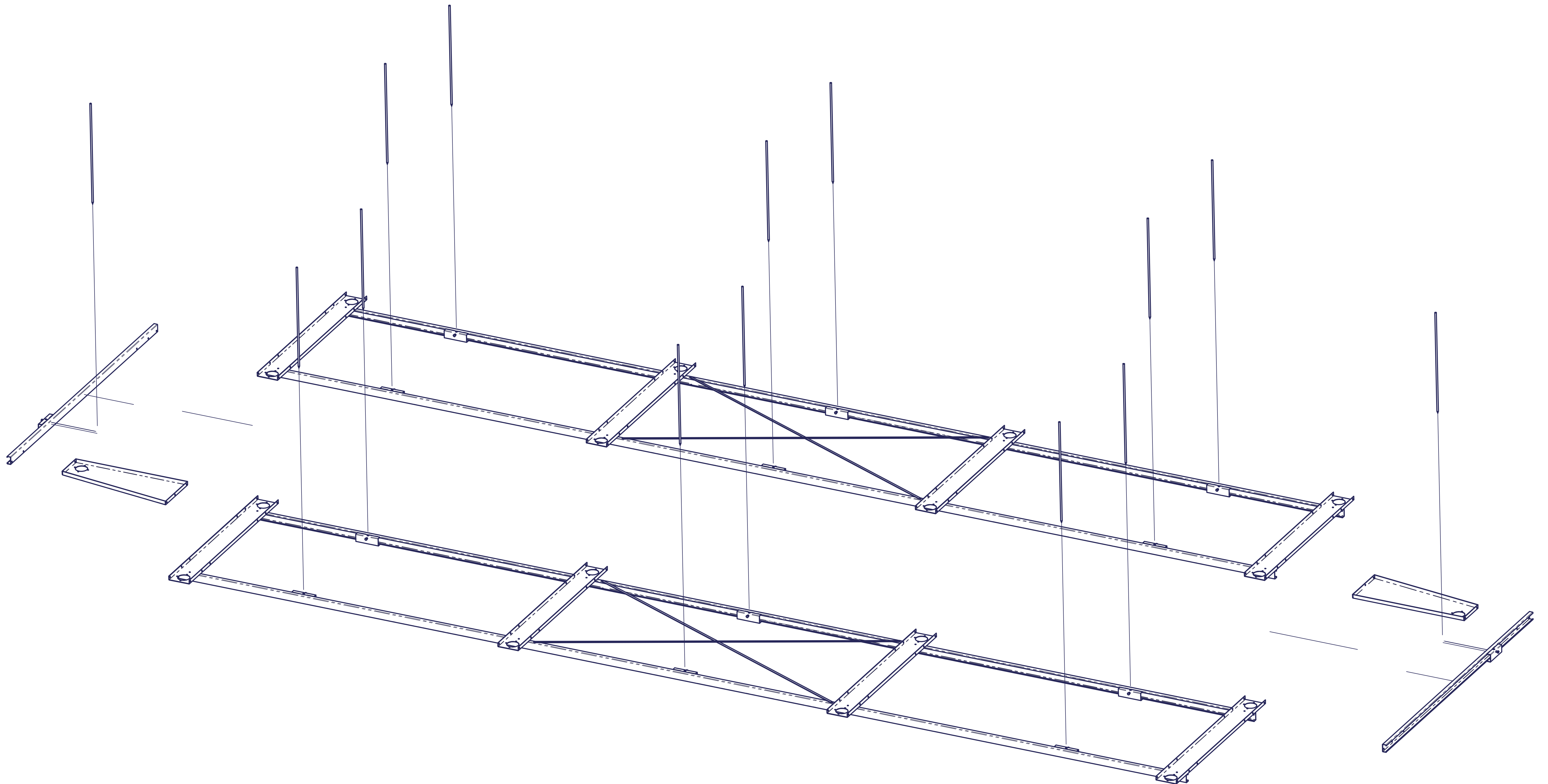
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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 Wilmington, NC 28411
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 Phone: 910-520-0278

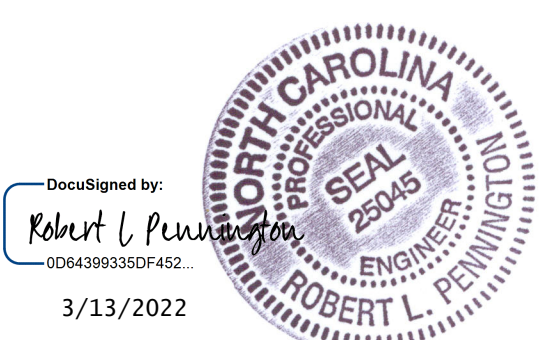


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LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400
	±0.1	±0.2	±0.3	±0.5	±0.8
					±1.2
					±2.0
TITLE: CHICKADEE, JIGGING ASSEMBLY		DRAWING NUMBER: CHICKADEE_JIG_ASSY FOUND		SHEET 1 OF 14 SIZE: B REVISION: 1	



SUB ASSEMBLY BREAK DOWN FOR TRANSPORT

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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



DocuSigned by:
Robert L. Pennington
0064396350F452
3/13/2022

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Phone: 910-520-0278



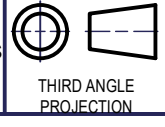
TITLE
CHICKADEE, JIGGING ASSEMBLY

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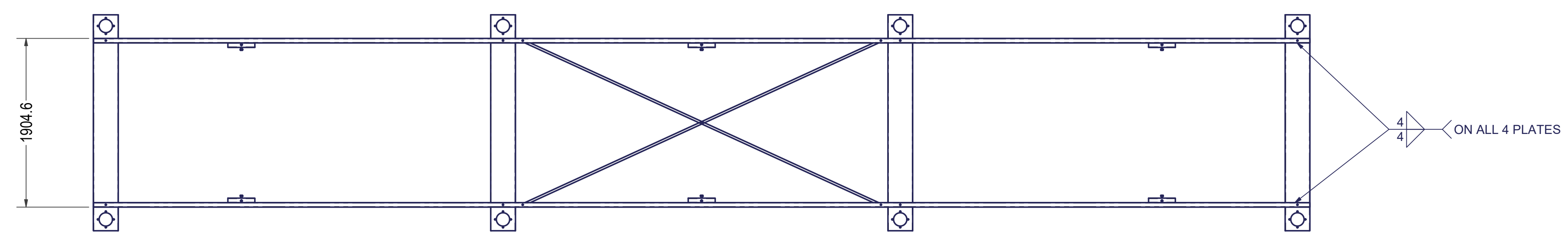
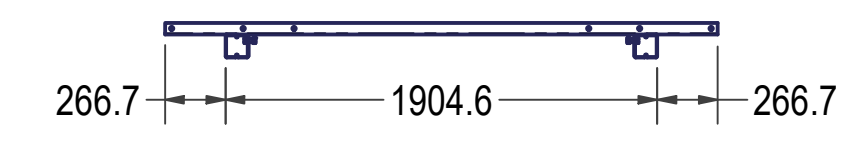
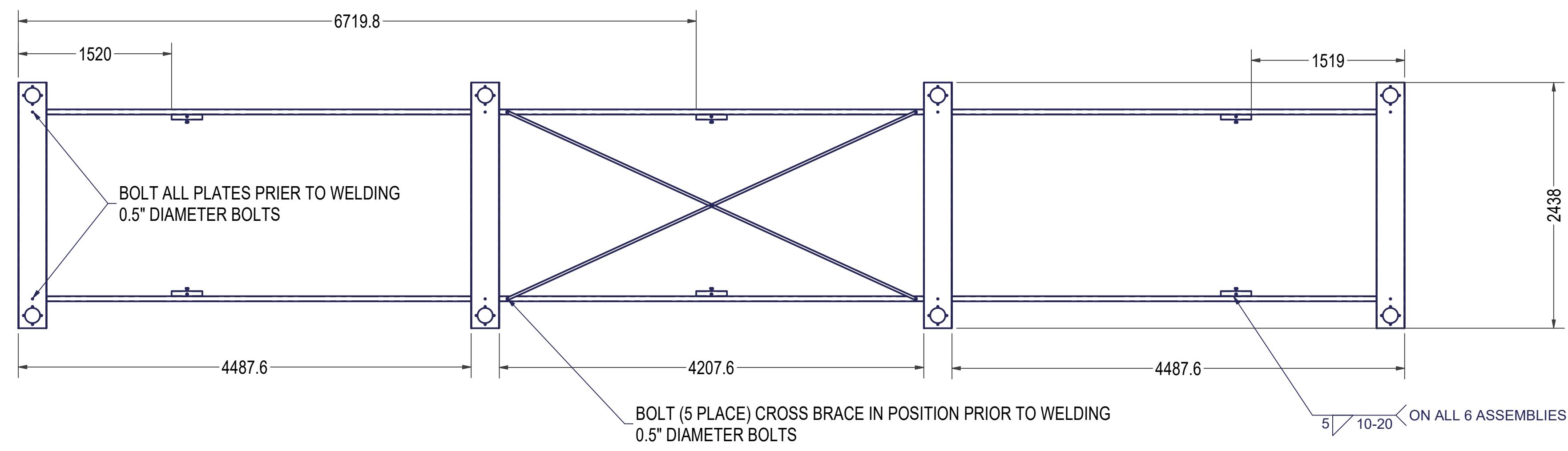
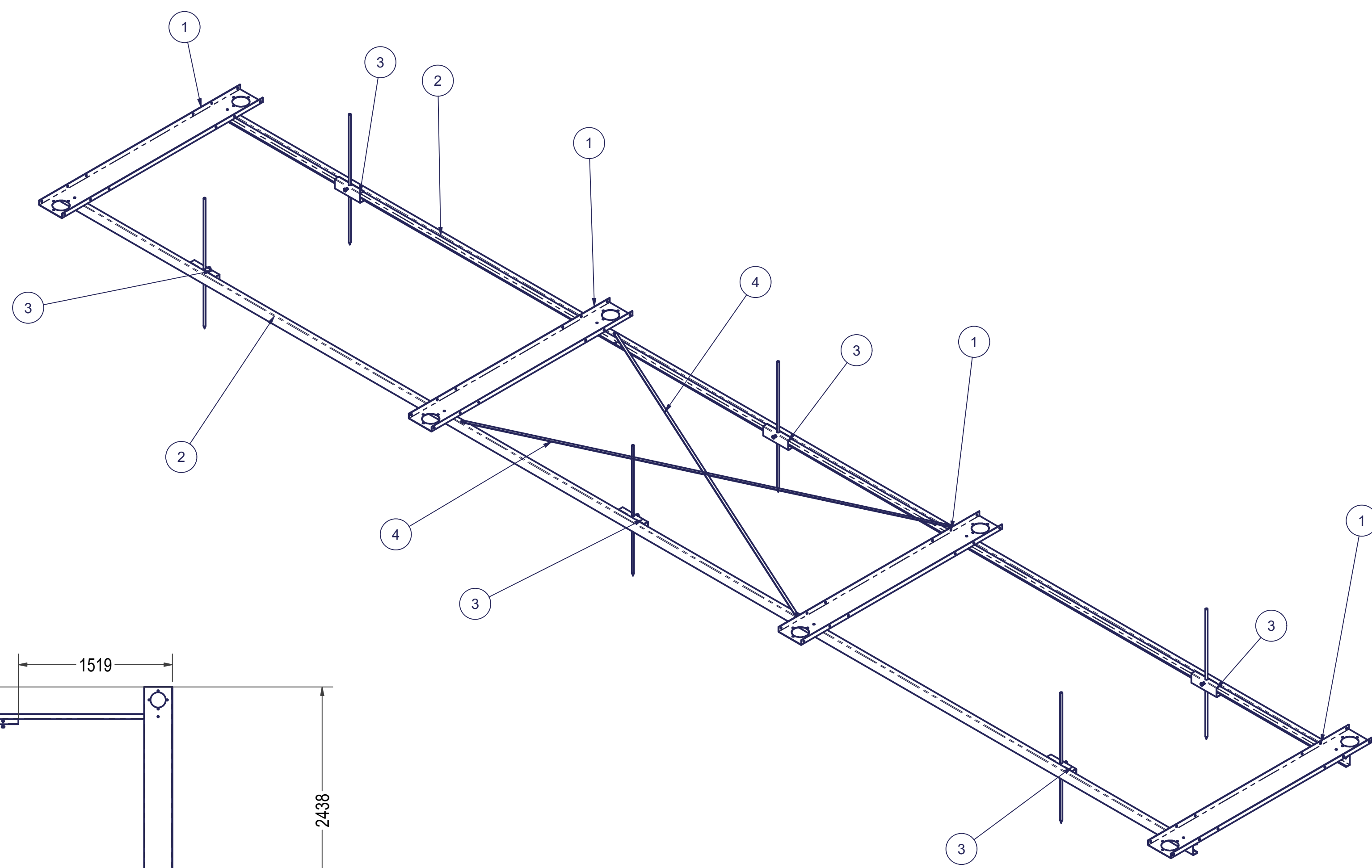
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	
GENERAL TOLERANCES LINEAR DIMENSIONS	
LINEAR	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK
0.5 TO 3	±0.3
3 TO 6	±0.5
6 TO 12	±0.8
12 TO 30	±1.2
30 TO 100	±2.0
100 TO 200	±3.0
200 TO 400	±4.0
400 TO 1000	±6.0
1000 TO 2000	±8.0
2000 TO 4000	±12.0
4000 TO 10000	±20.0

REMOVE ALL SHARP EDGES AND BURRS



THIRD ANGLE PROJECTION
DRAWING NUMBER: CHICKADEE_JIG_ASSY FOUND
SHEET 2 OF 14
SIZE: B
REVISION: 1

BOM		PART NUMBER	DESCRIPTION
ITEM	QTY		
1	4	PLATE J-1	PLATE JIGGING
2	2	CHANNEL J-1	CHANNEL 2"x4"
3	6	LOCK ASSY ANCHOR STAKE	LOCK ASSEMBLY
4	2	STRIP CROSS BRACE	PLATE CROSS BRACE



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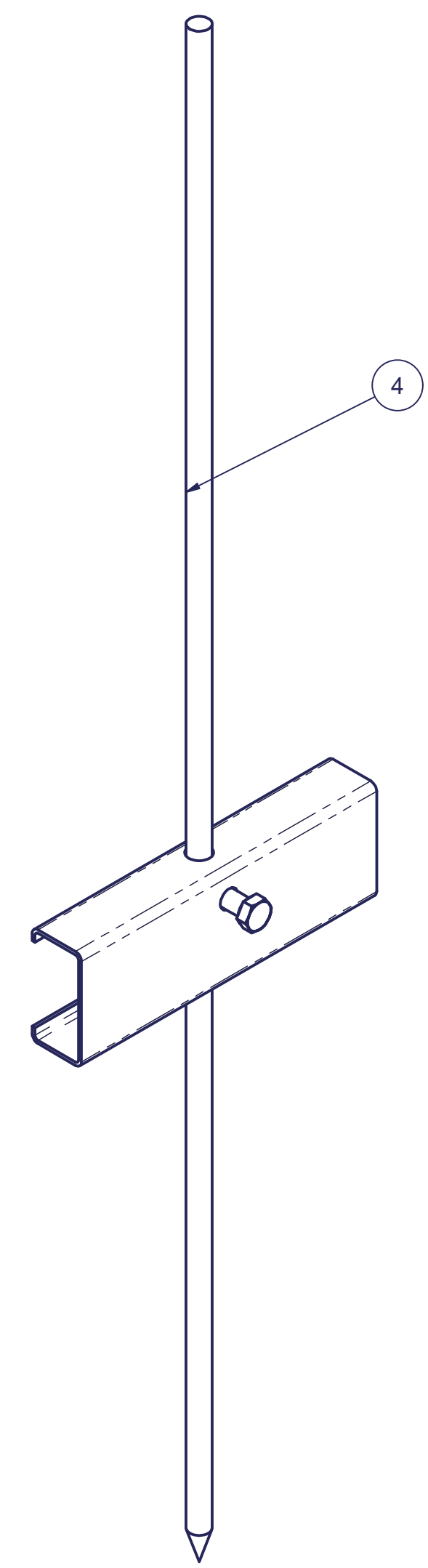
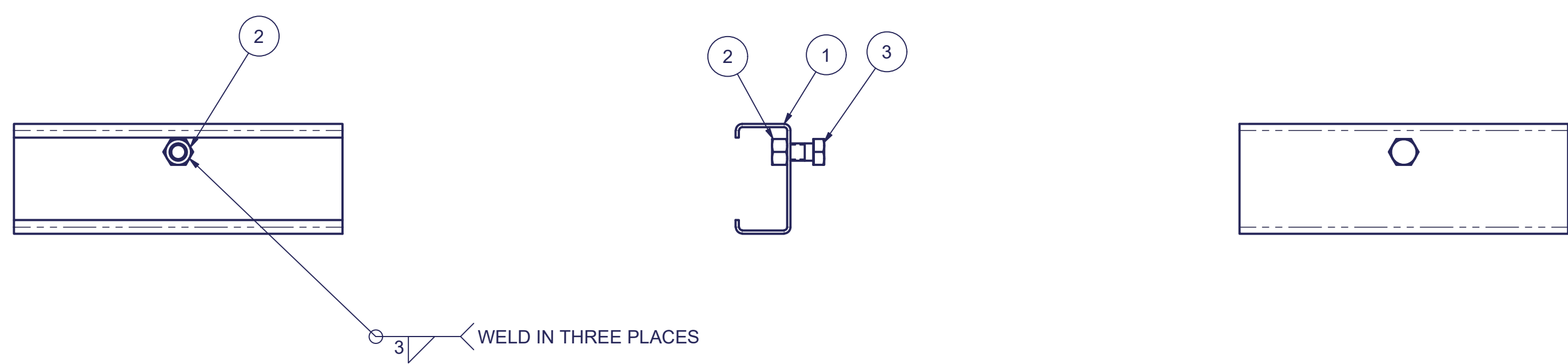
MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

DocuSigned by
Robert L. Pennington
 3/13/2022
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			SHEET 3 OF 14 SIZE: B REVISION: 1



ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	1	CHANNEL J-2		CHANNEL Z7X4"
2	1	AS 2465 - 5/8 UNC		Unified hexagon bolts, screws and nuts (UNC and UNF threads)
3	1	AS 2465 - 5/8 x 1 1/2 UNC		Unified hexagon bolts, screws and nuts (UNC and UNF threads)
4	1	REBAR #6 X 4.5FT		REBAR #6



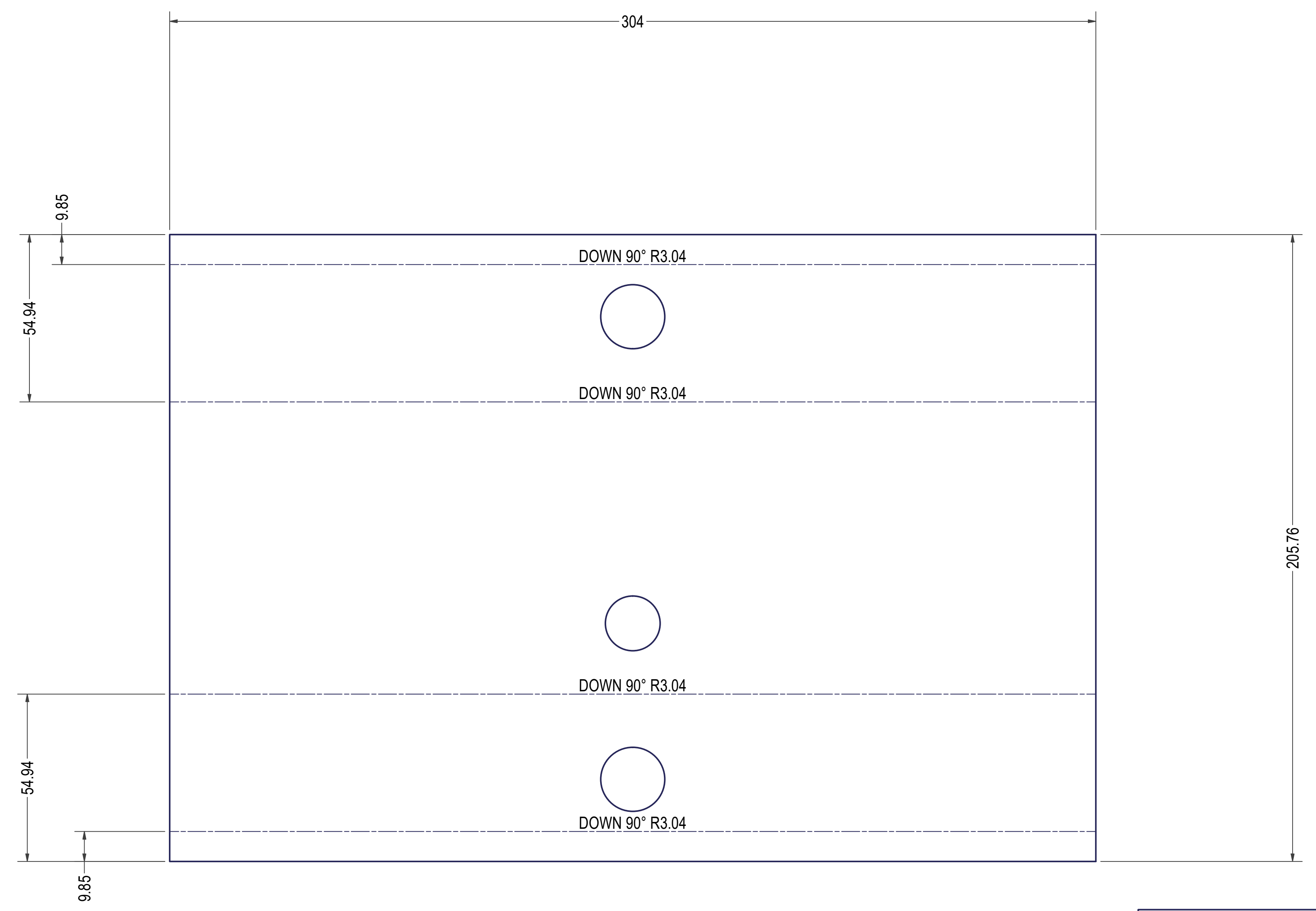
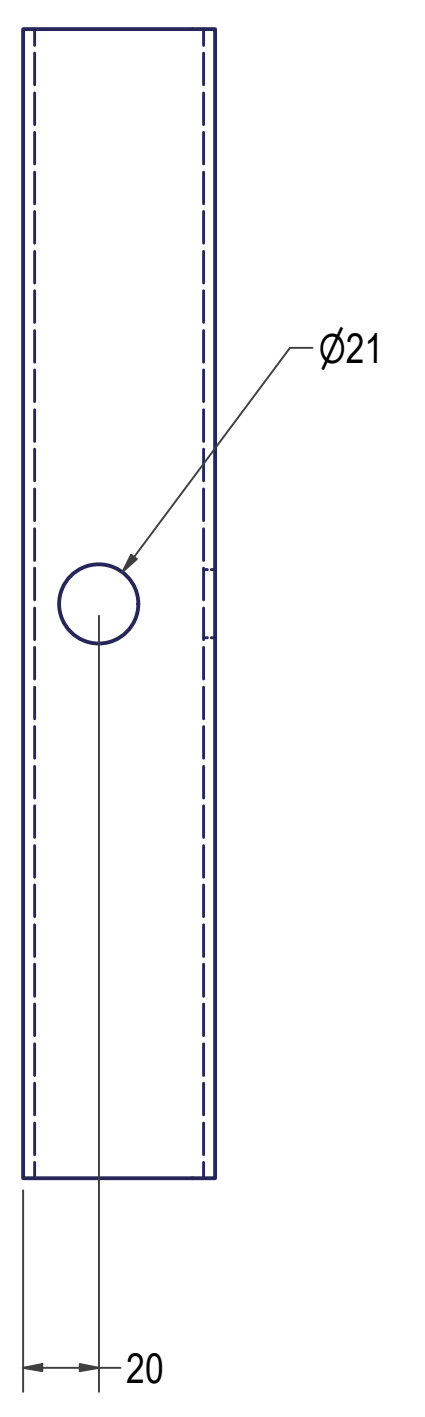
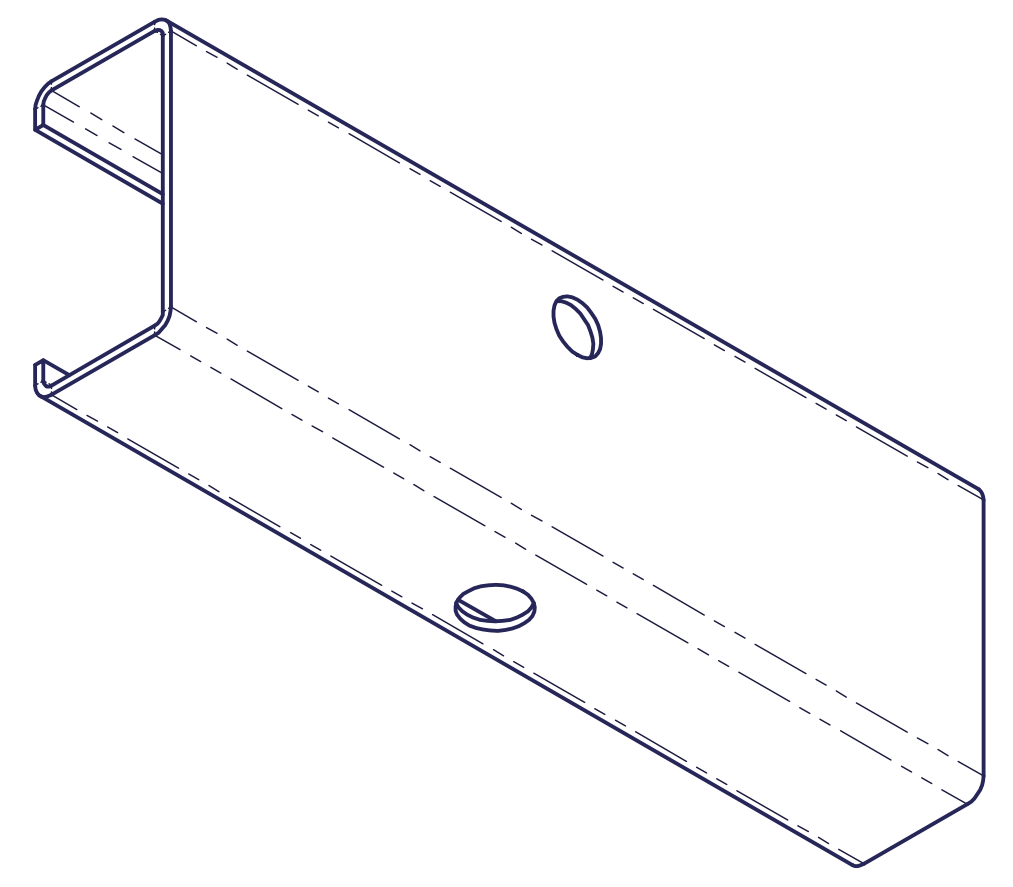
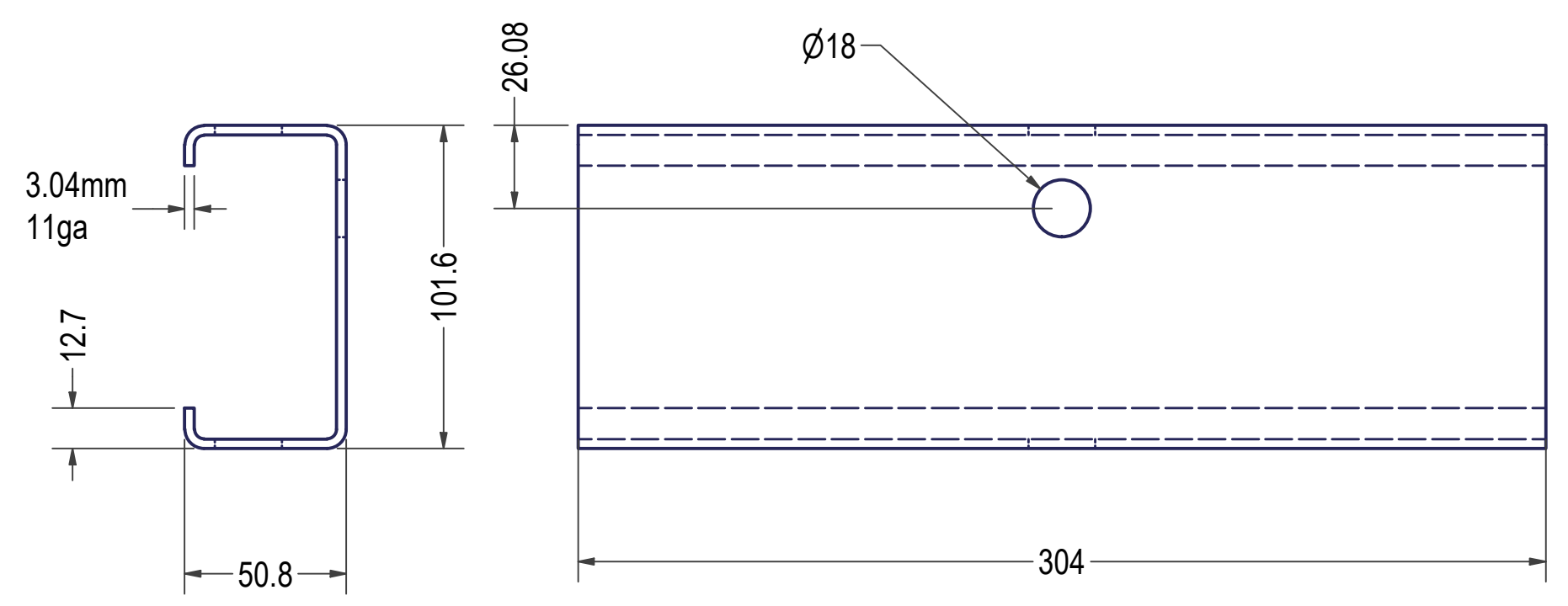
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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--	--	---	--	---	--	----------------------------------	--	------------------------	--	---	--



DXF FILE: CHANNEL J-2_1

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 50943993305F452
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
CHANNEL 2"x4"

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	LINEAR TO : 0.5 : ±0.1 TO : 3 : ±0.2 TO : 6 : ±0.3 TO : 30 : ±0.5 TO : 120 : ±0.8 TO : 400 : ±1.2 TO : 1000 : ±2.0 TO : 2000 : ±2.0				
		SHEET 5 OF 14		SIZE B		REVISION 1	



Ø19mm
#6 0.75"

1371

30

SHARPEN STAKE.

MATERIAL; CARBON STEEL, ASTM 615

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006439633DF452
3/13/2022



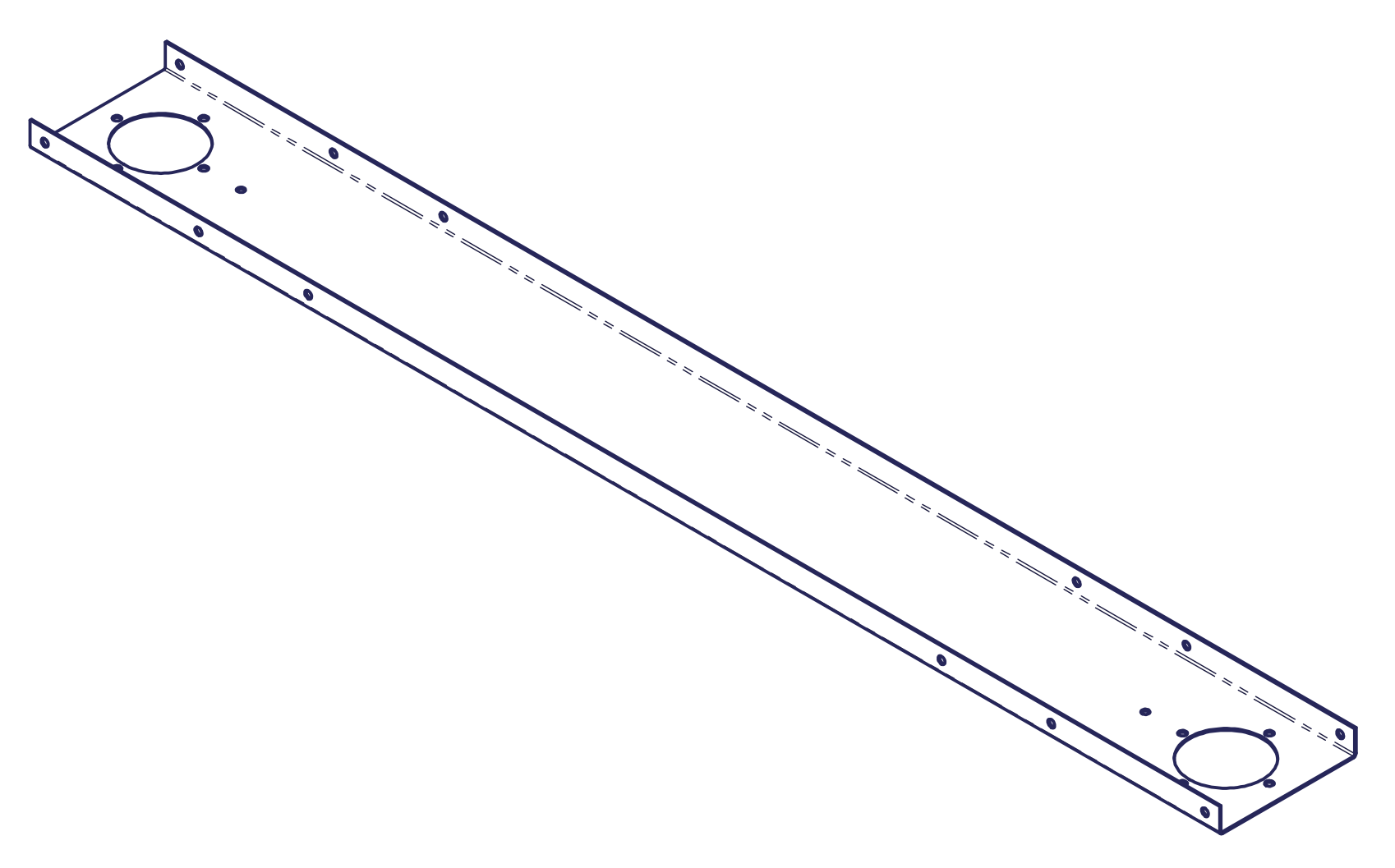
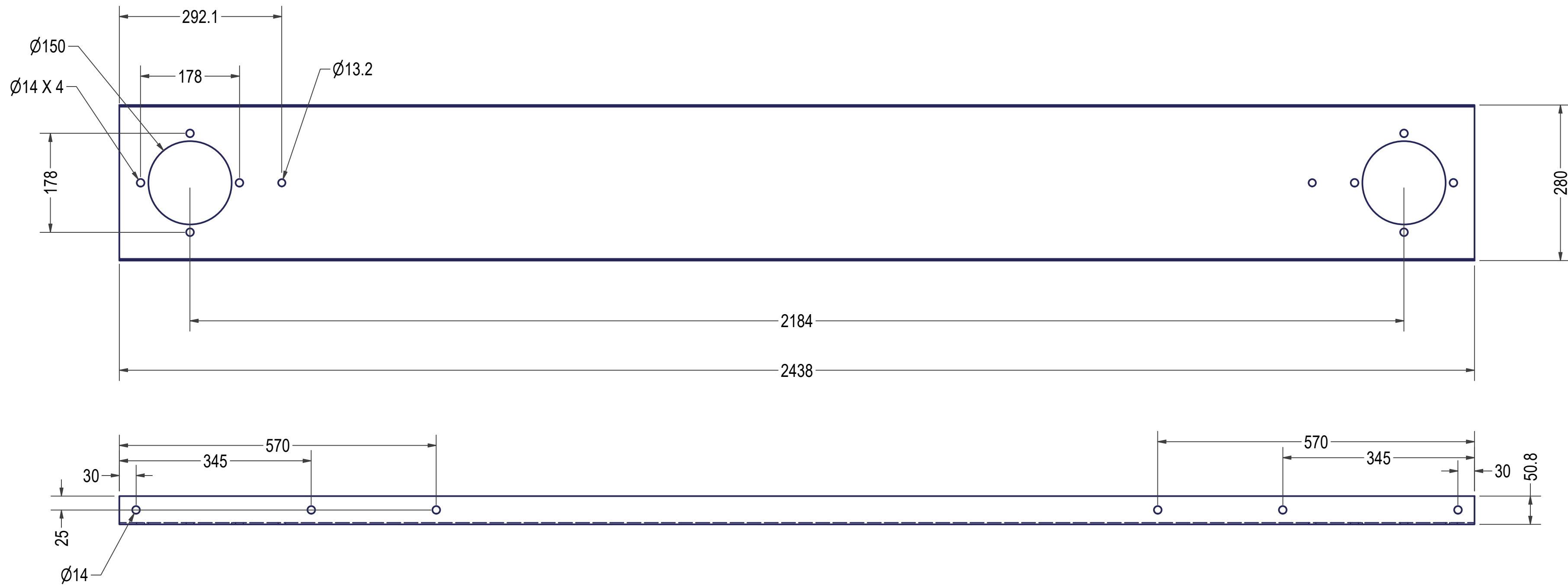
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MATERIAL	Generic
THICK	
MASS	0.383 kg
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



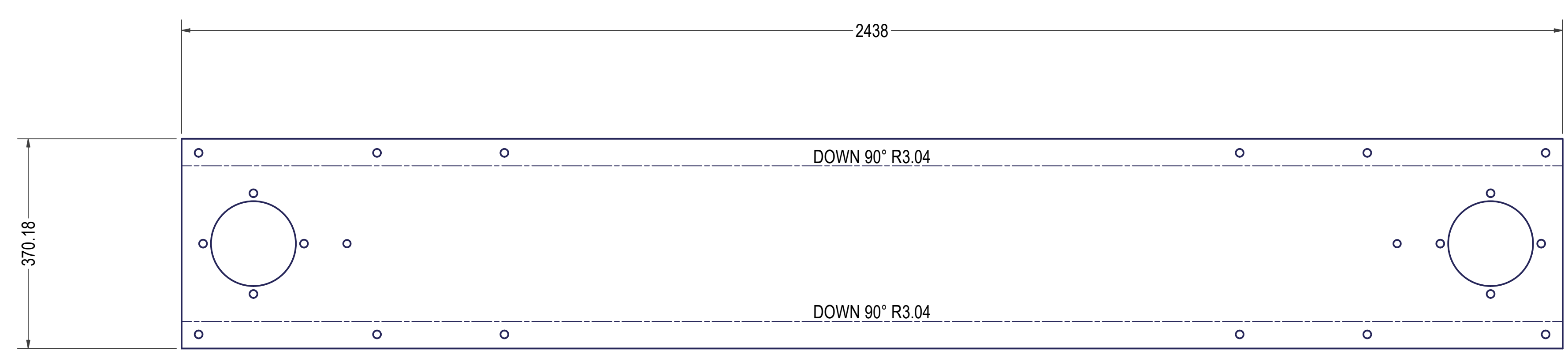
TITLE
REBAR #6

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		GENERAL TOLERANCES LINEAR DIMENSIONS DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		



3.04mm
11ga

DXF FILE: PLATE J-1_1



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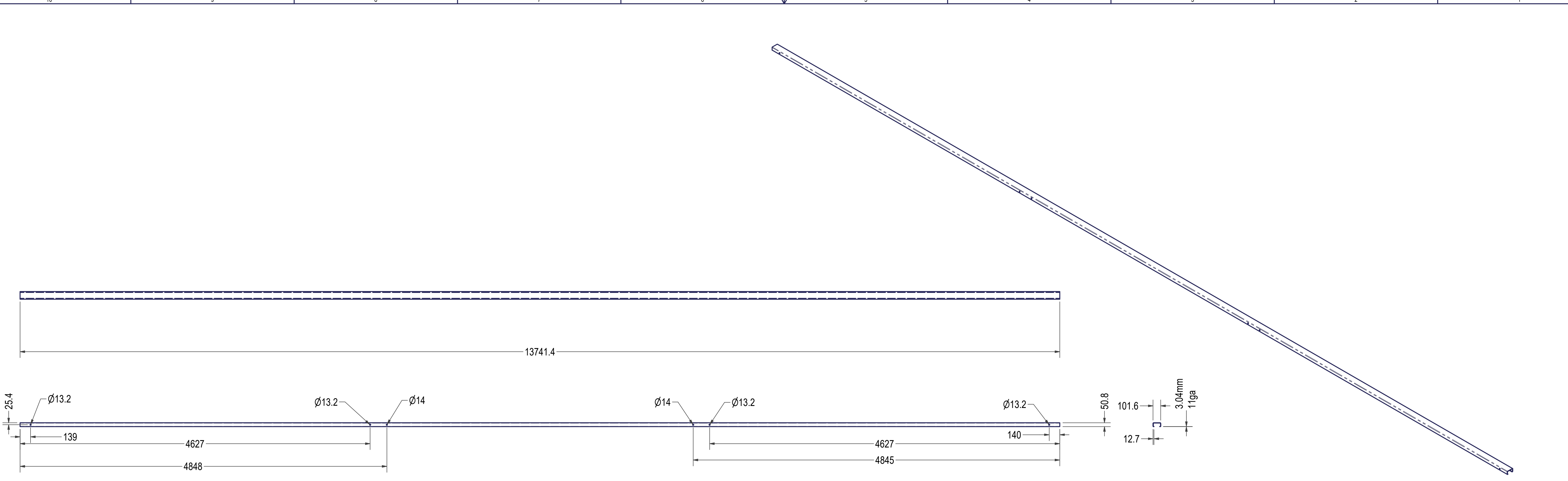
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
PLATE JIGGING

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		GENERAL TOLERANCES LINEAR DIMENSIONS	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	TOLERANCE ±0.1 ±0.15 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION	SHEET 7 OF 14	SIZE B	REVISION 1

DRAWING NUMBER
PLATE J-1



DXF FILE : CHANNEL J-1_1

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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

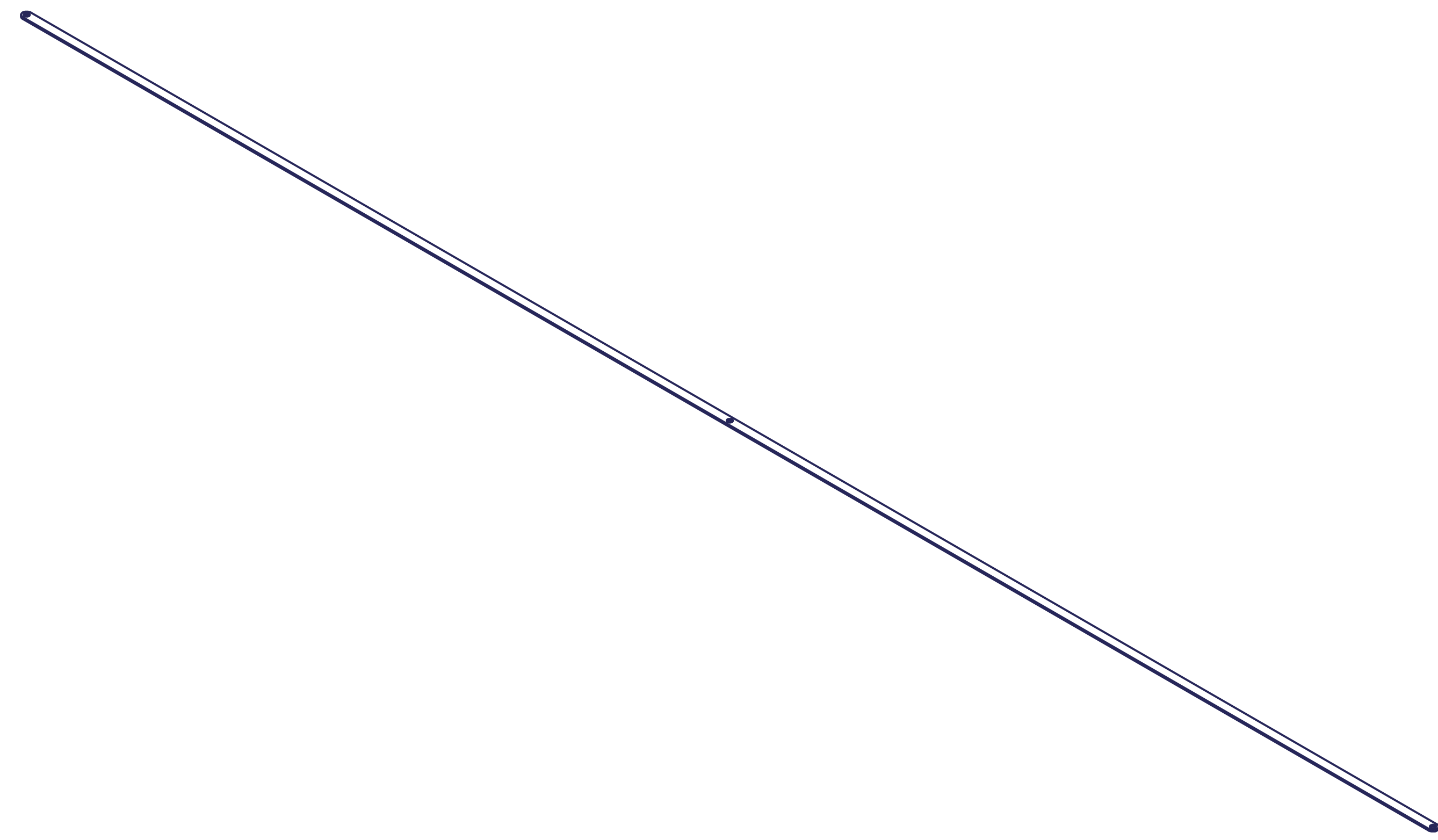
DocuSigned by:
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 Wilmington, NC 28411
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 Phone: 910-520-0278

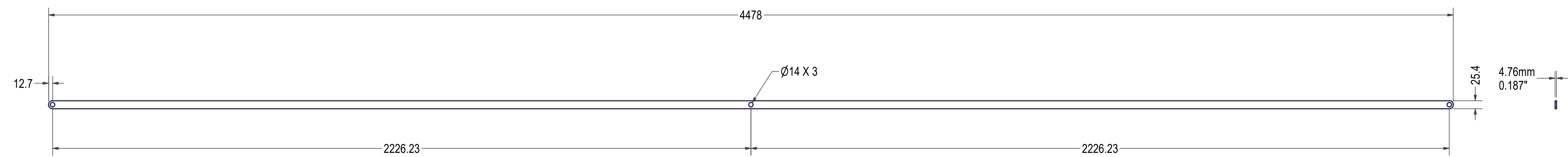


TITLE
 CHANNEL 2"x4"

FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS GENERAL TOLERANCES LINEAR DIMENSIONS: ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		REMOVE ALL SHARP EDGES AND BURRS
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DRAWING NUMBER CHANNEL J-1		SHEET 8 OF 14 SIZE B REVISION: 1		



DXF FILE: STRIP CROSS BRACE_1



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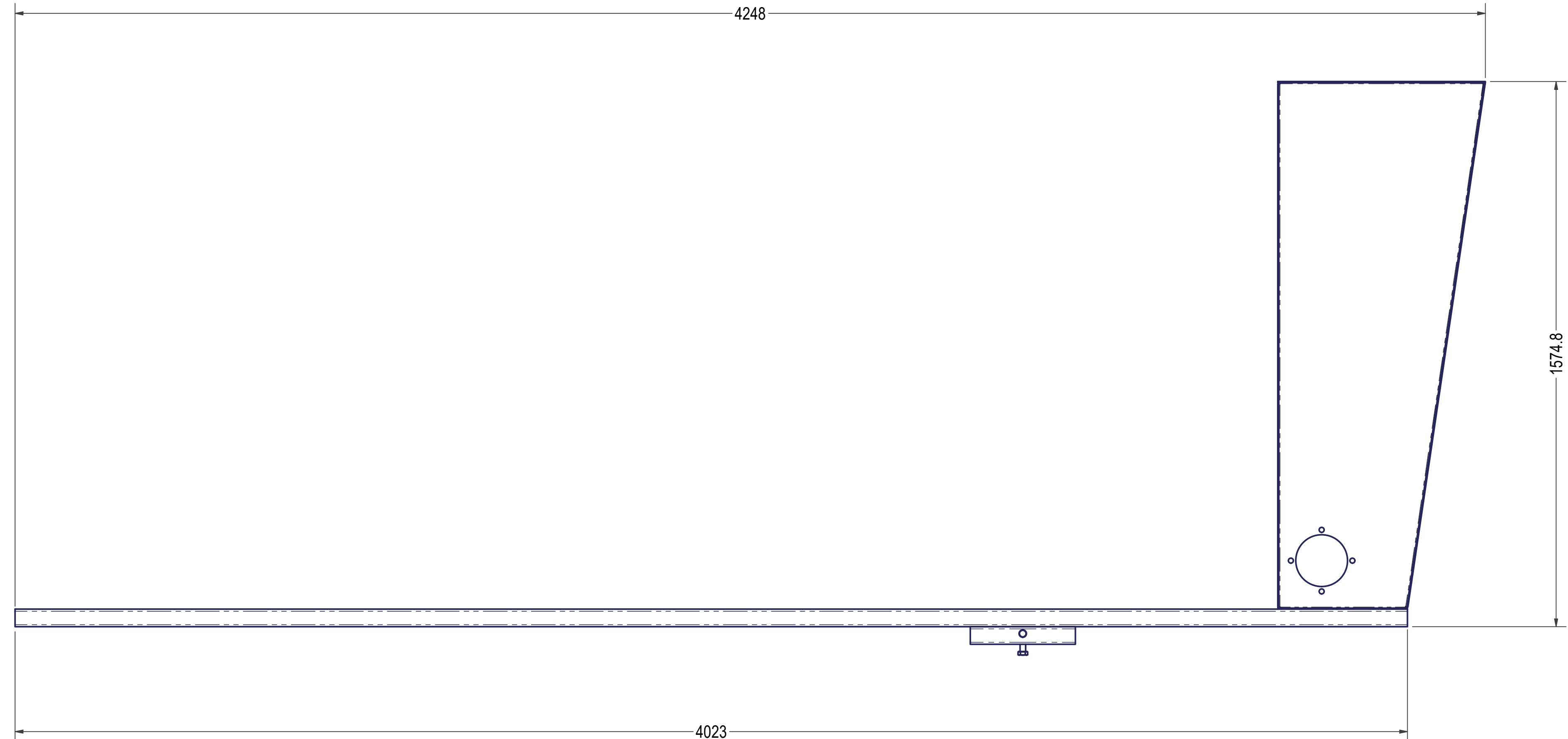
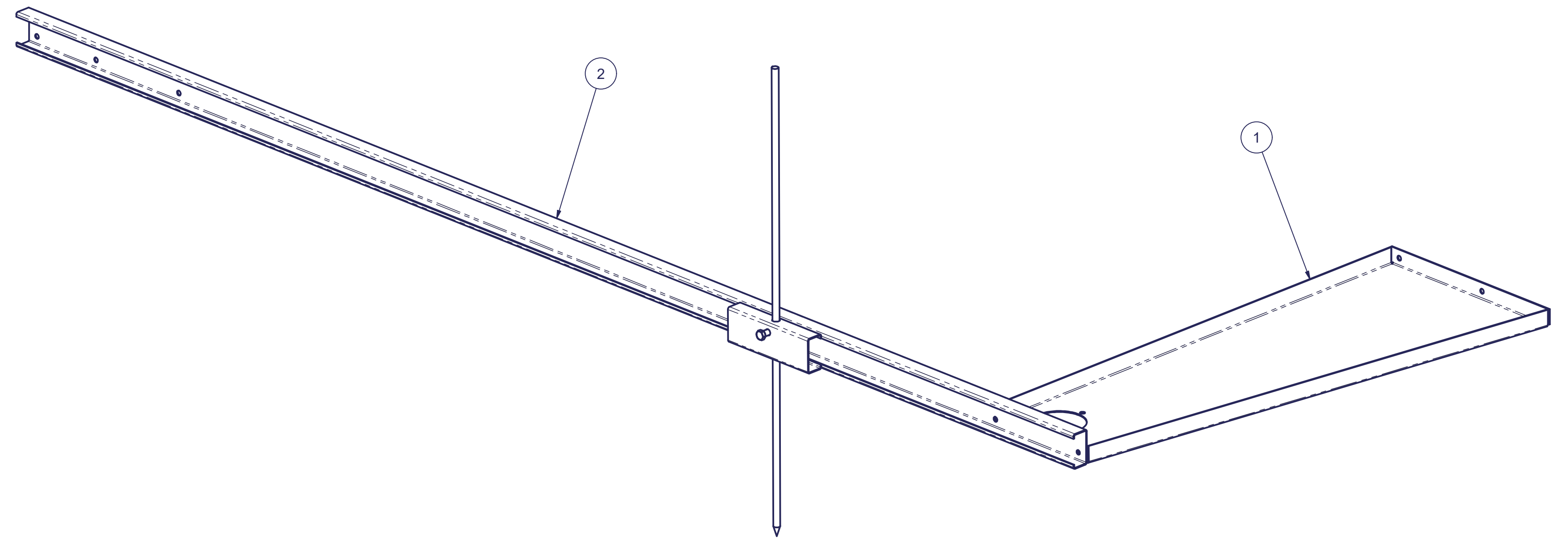
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	4.763 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
PLATE CROSS BRACE

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920 TO : 3840 TO : 7680 TO : 15360	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION	DRAWING NUMBER STRIP CROSS BRACE	SHEET 9 OF 14 SIZE B REVISION: 1

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	1	PLATE J-3		PLATE JIGGING
2	1	SUPPORT ASSY-1		SUPPORT



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 0D64399335DF452
 3/13/2022

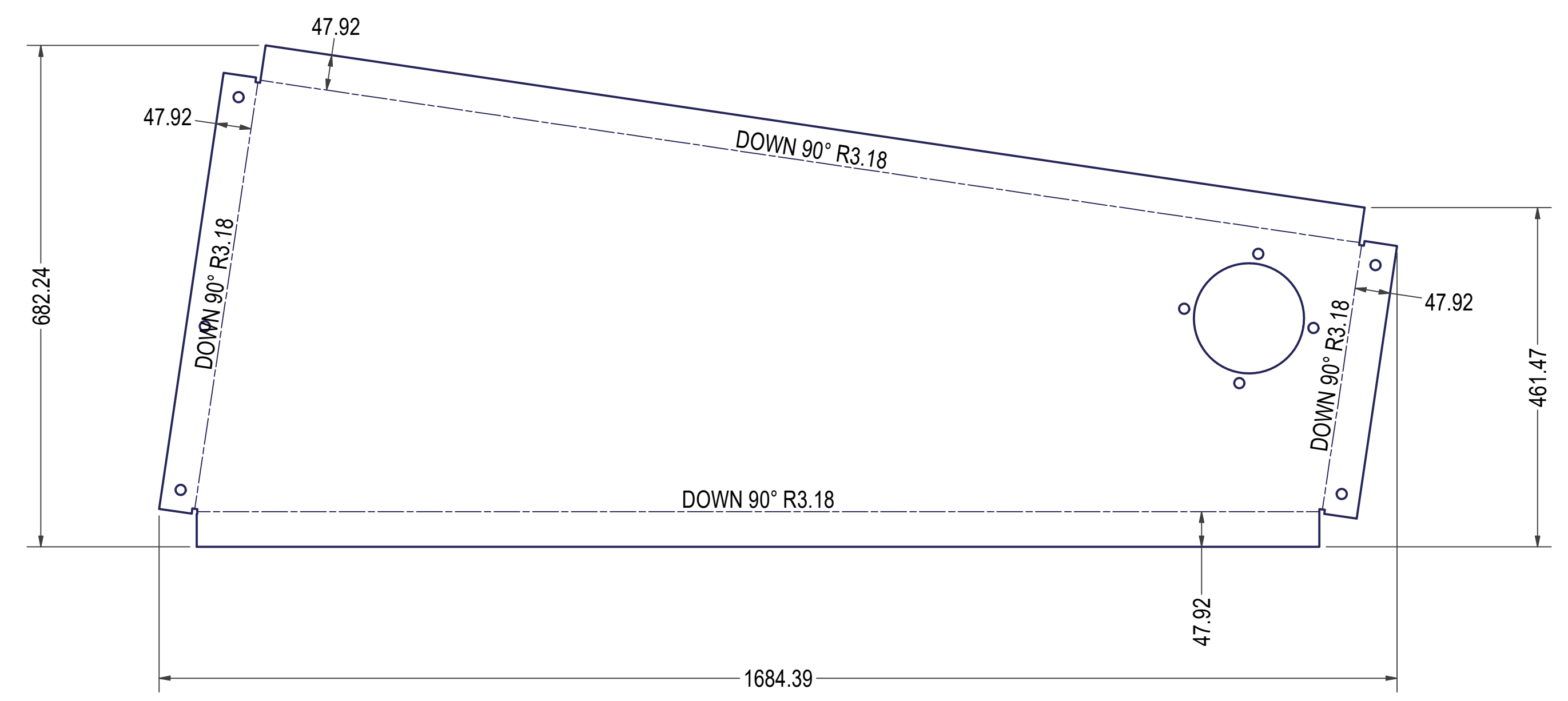
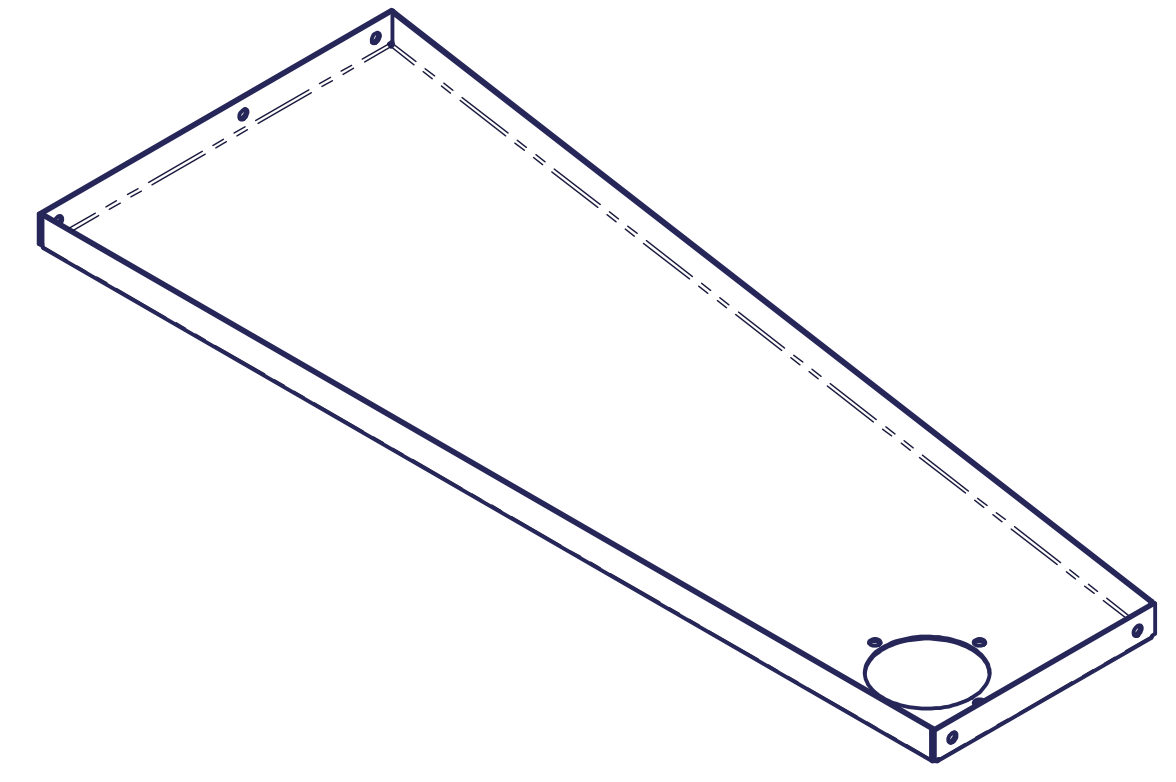
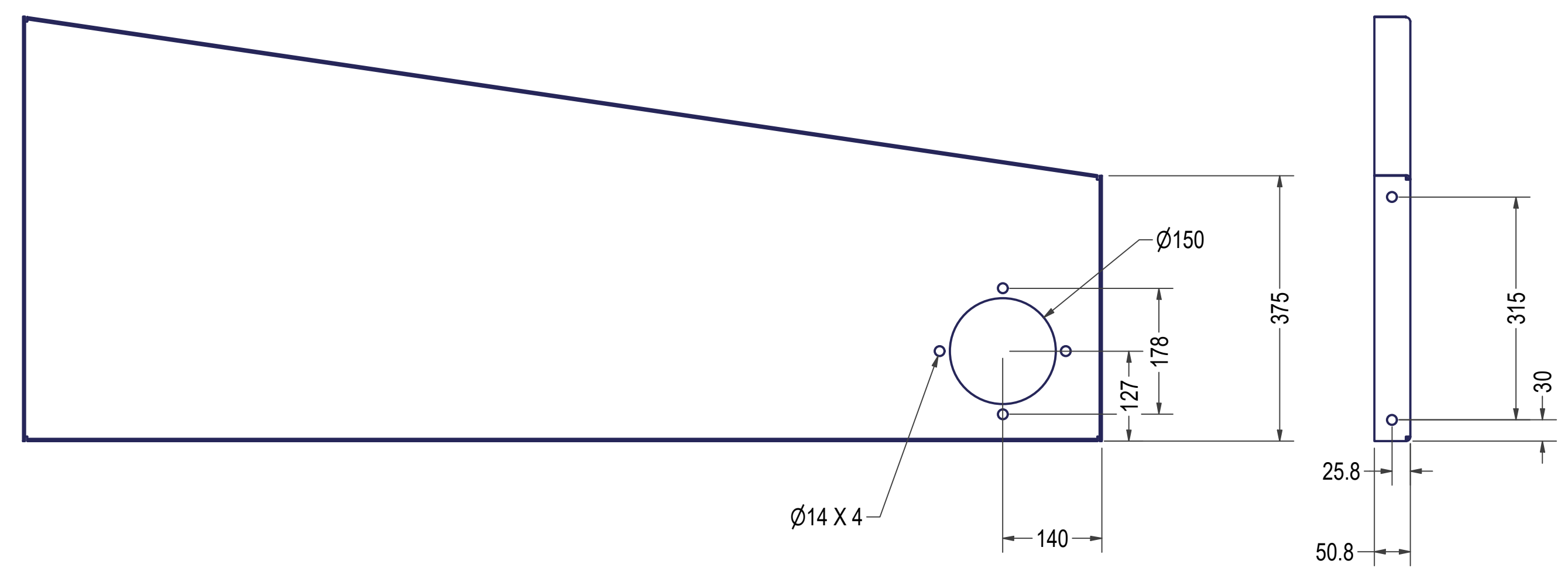
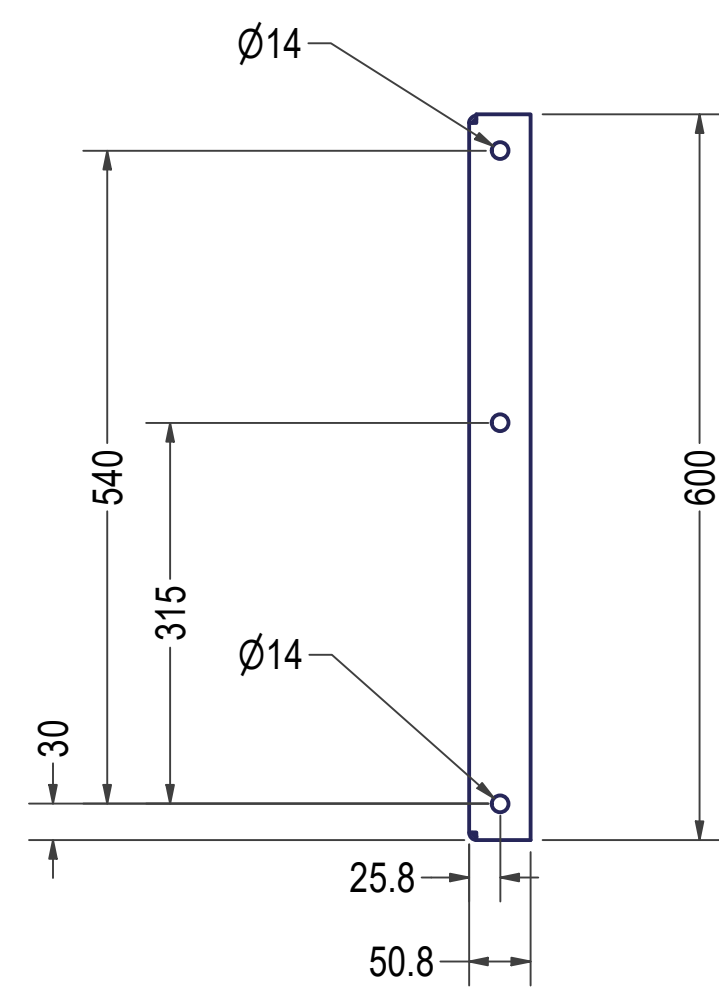
Robert L. Pennington PE
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	THIRD ANGLE PROJECTION	
DRAWING NUMBER: JIG FRAME ASSY.FOUND.S2		SHEET 10 OF 14		REVISION: 1



DXF FILE: PLATE J-3_1

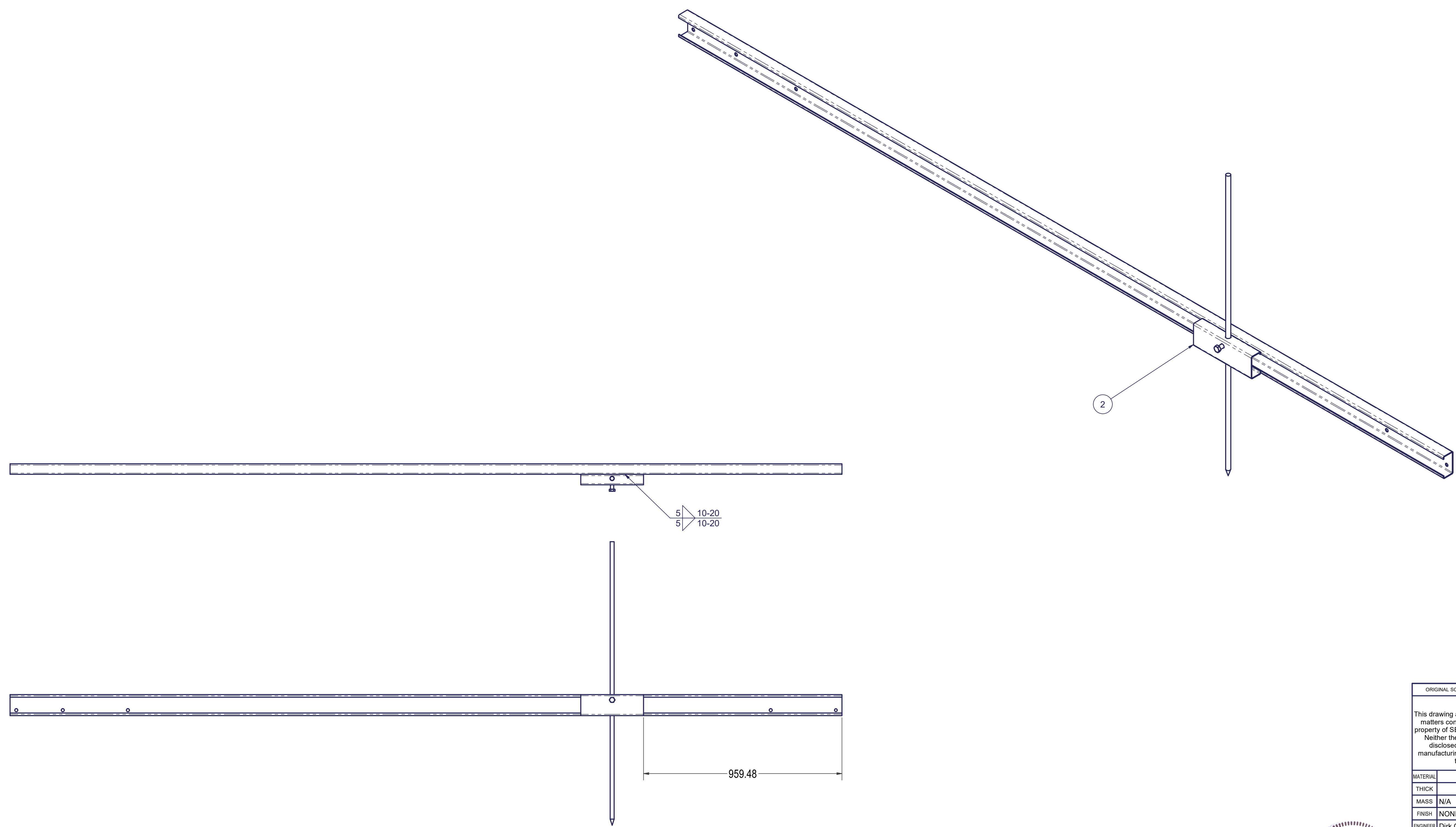
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MATERIAL	SHAFT STOCK, AISI 1018 CF
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE: PLATE JIGGING

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GENERAL TOLERANCES LINEAR DIMENSIONS			ALL OTHER FEATURES		DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		SHEET 11 OF 14				
LINEAR	0.5	3	8	30	120	400	1000	2000	4000	SIZE: B	REVISION: 1
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0				

ITEM		QTY		PART NUMBER		BOM		DESCRIPTION	
2	1	LOCK ASSY ANCHOR STAKE	LOCK ASSEMBLY						



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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

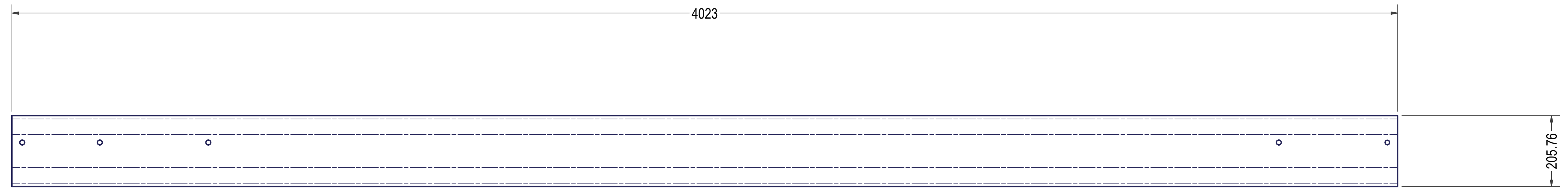
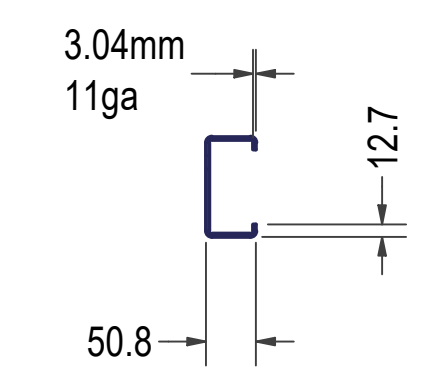
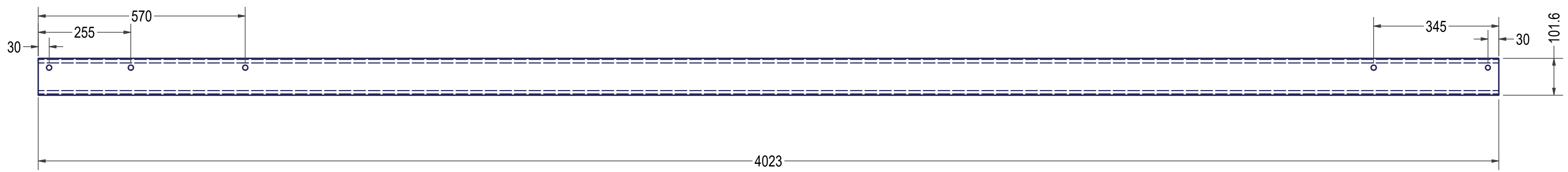
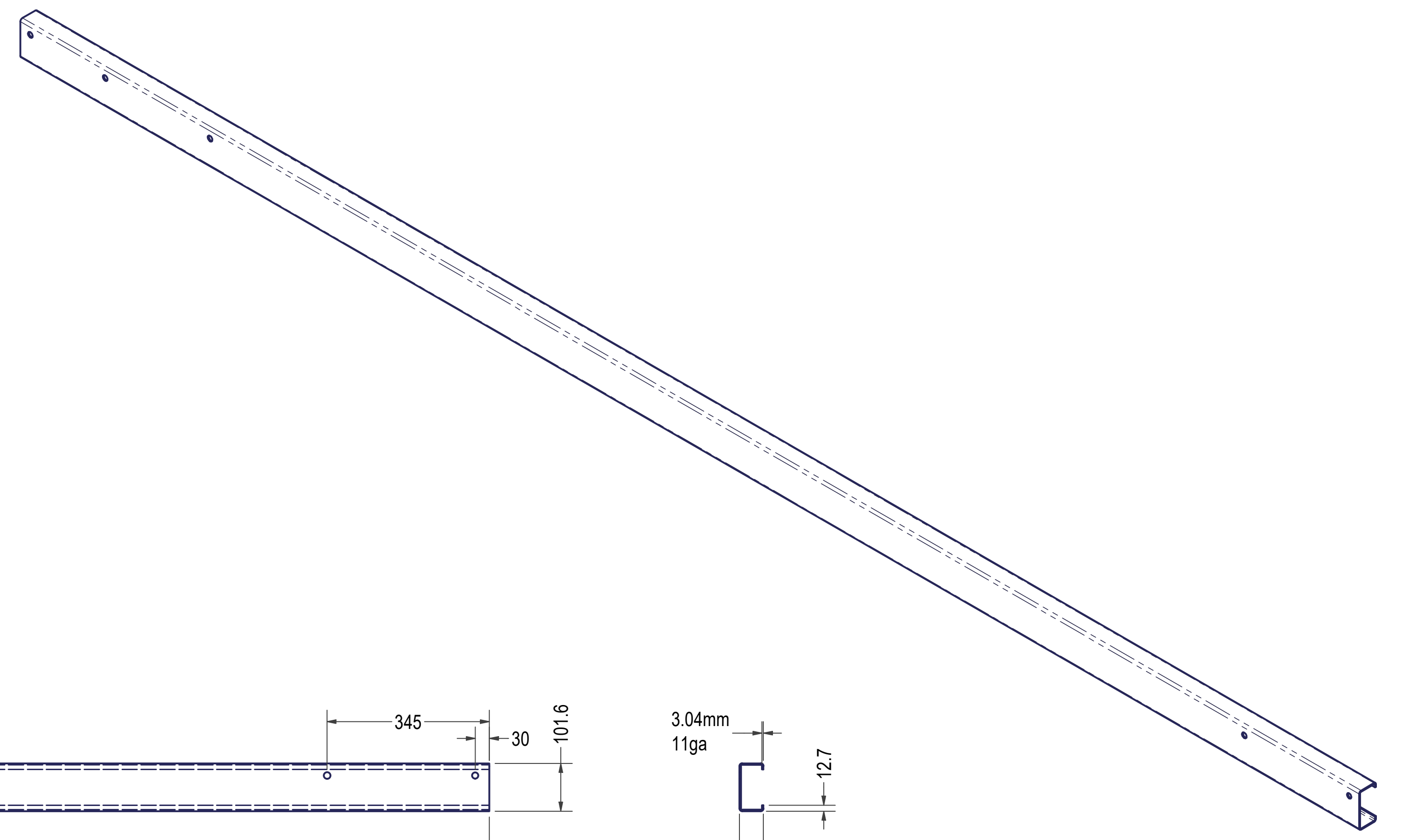


TITLE
SUPPORT

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	REMOVE ALL SHARP EDGES AND BURRS THIRD ANGLE PROJECTION
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 10 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920 TO : 3840 TO : 7680 TO : 15360	TOLERANCE ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	DRAWING NUMBER SUPPORT ASSY-1	SHEET 12 OF 14 SIZE: B REVISION: 1



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MATERIAL																																									
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FINISH																																									
ENGINEER																																									
DRAWN	Dirk Genis																																								
DATE	2/20/2022																																								
																																									
TITLE																																									
																																									
<p>Robert L. Pennington PE 7629 Mallow Road Wilmington, NC 28411 Email: robert@RLPPE.com Phone: 910-520-0278</p>																																									
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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS</p>																																									
<p>GENERAL TOLERANCES LINEAR DIMENSIONS</p> <table border="1"> <tr> <td>LINEAR</td> <td>0.5</td> <td>3</td> <td>8</td> <td>30</td> <td>120</td> <td>400</td> <td>1000</td> <td>2000</td> <td>ALL OTHER FEATURE</td> </tr> <tr> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>DIMENSION TOLERANCES ARE</td> </tr> <tr> <td>±0.1</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> <td>±1.2</td> <td>±2.0</td> <td></td> <td></td> <td>GOVERNED BY</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>DIN ISO 2768-mK</td> </tr> </table>		LINEAR	0.5	3	8	30	120	400	1000	2000	ALL OTHER FEATURE	TO	TO	TO	TO	TO	TO	TO	TO	TO	DIMENSION TOLERANCES ARE	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0			GOVERNED BY										DIN ISO 2768-mK
LINEAR	0.5	3	8	30	120	400	1000	2000	ALL OTHER FEATURE																																
TO	TO	TO	TO	TO	TO	TO	TO	TO	DIMENSION TOLERANCES ARE																																
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0			GOVERNED BY																																
									DIN ISO 2768-mK																																
<p>REMOVE ALL SHARP EDGES AND BURRS</p>																																									
<p>THIRD ANGLE PROJECTION</p>																																									
<p>SHEET 13 OF 14 SIZE B REVISION 1</p>																																									



DXF FILE: CHANNEL F-5_1

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 3/13/2022

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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

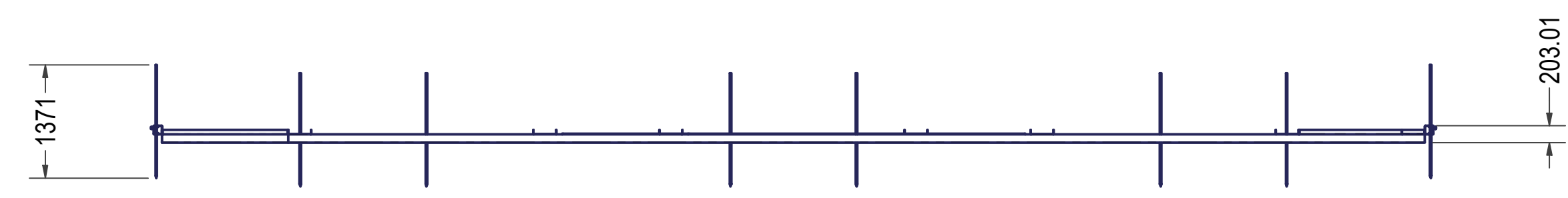
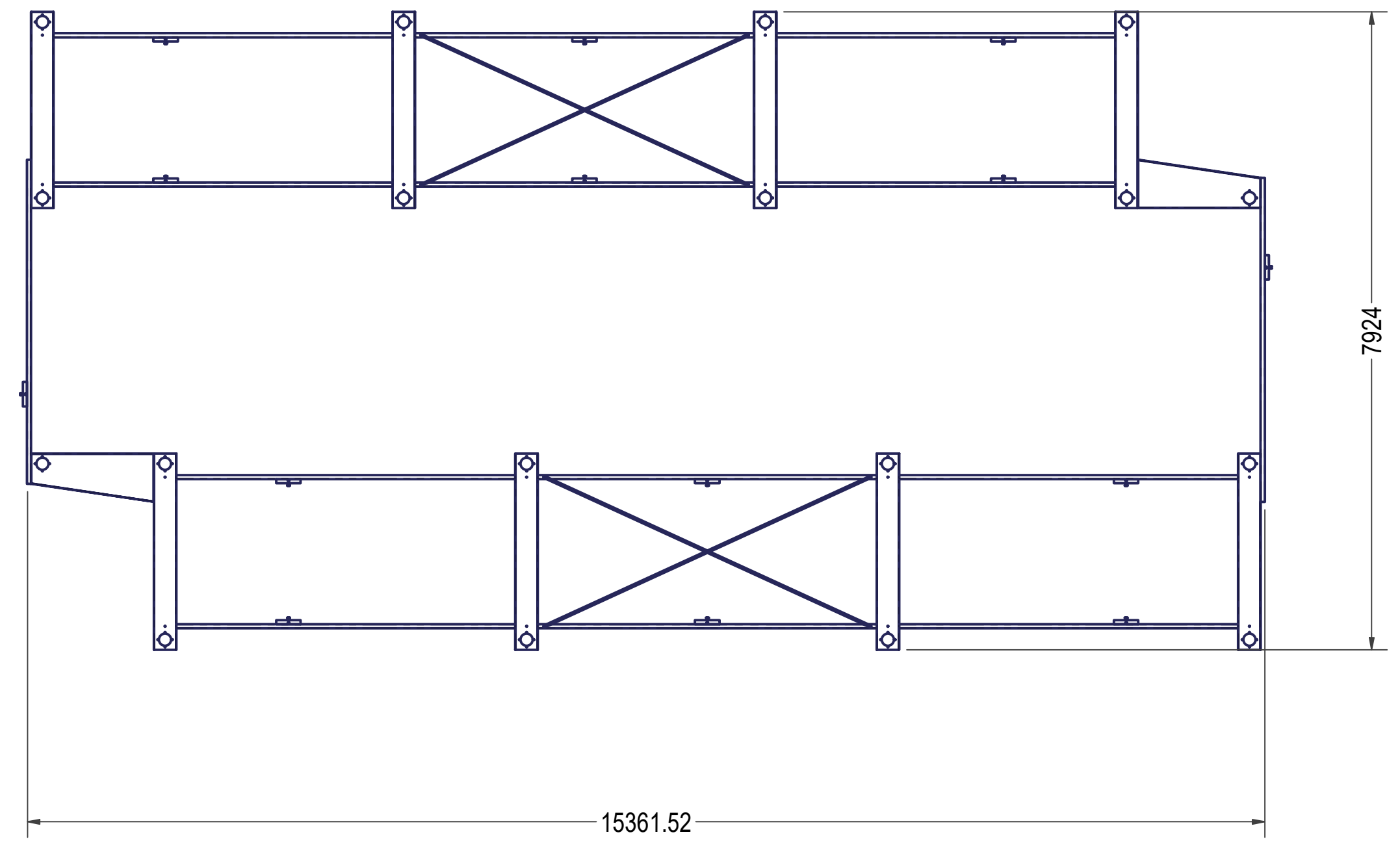
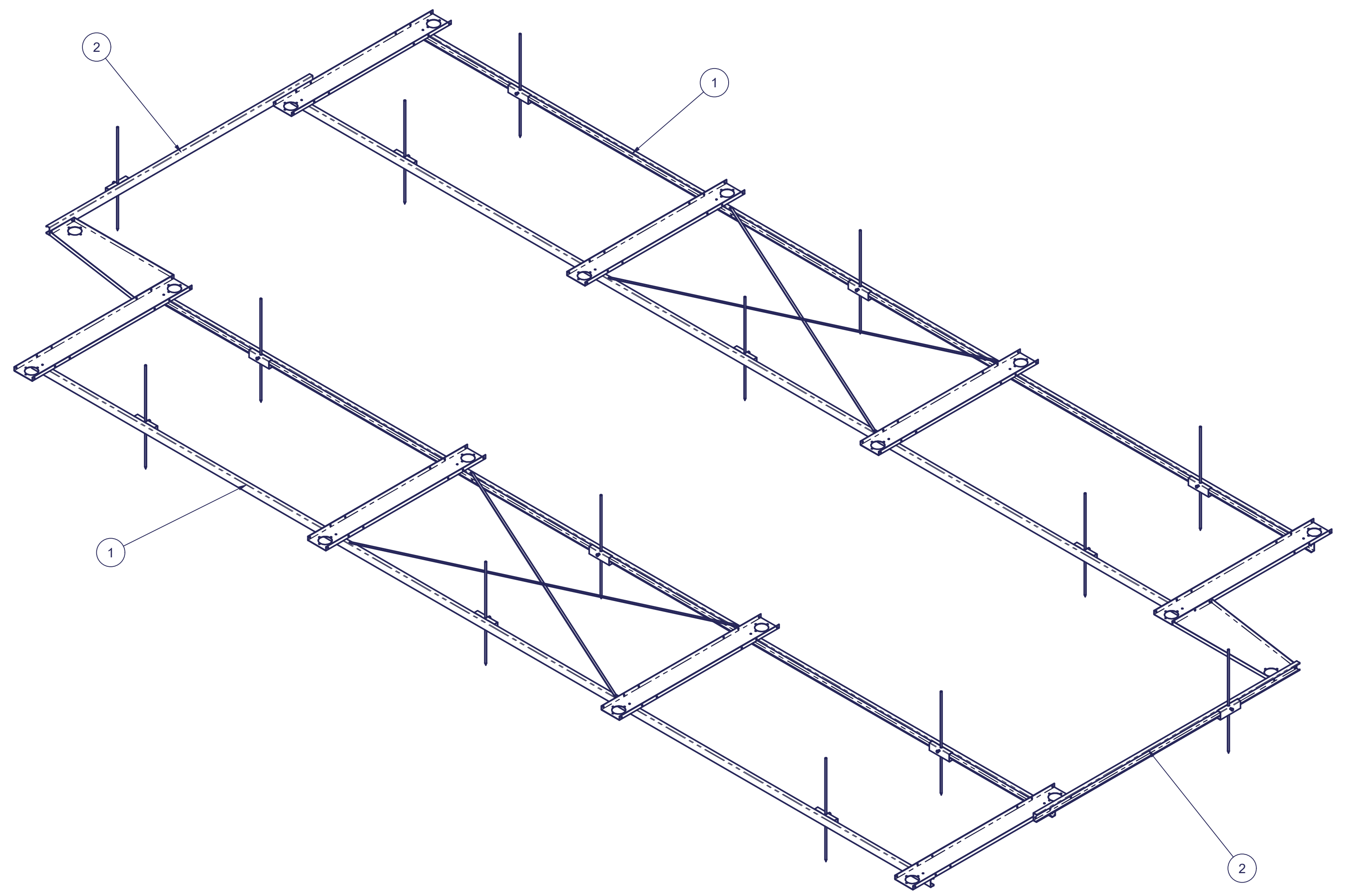


TITLE
 CHANNEL 2"x4"

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	TOLERANCE ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION		DRAWING NUMBER CHANNEL F-5
SHEET 14 OF 14		SIZE B		REVISION 1

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	2	JIG FRAME ASSY-FOUND-S1	JIGGING ASSEMBLY 40FT	
2	2	JIG FRAME ASSY-FOUND-S2	JIGGING ASSEMBLY MODEL1 - 10FT SPACING	

ZONE	REV	DESCRIPTION	ENG	DATE
	1			2/20/2022



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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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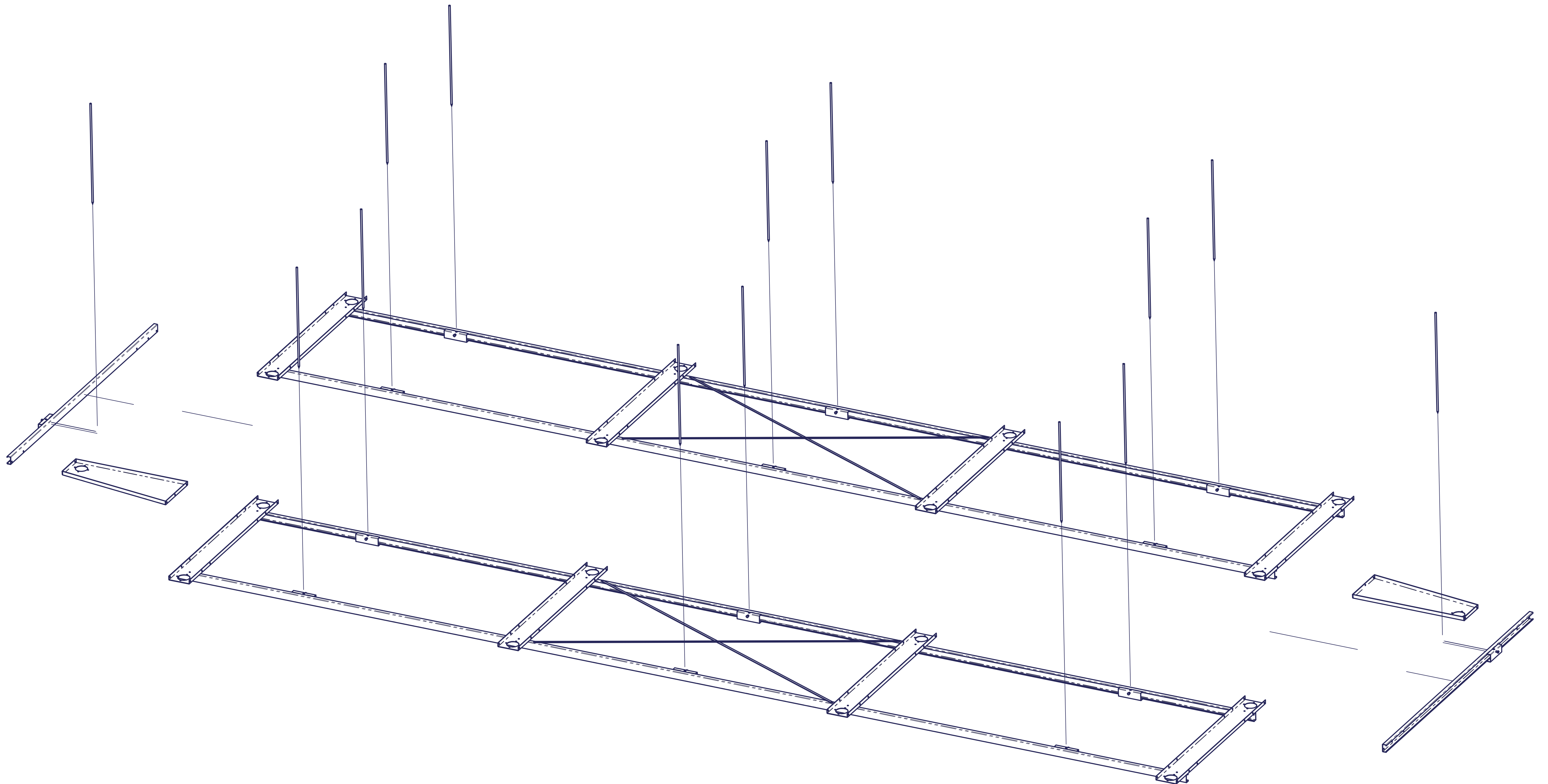


TITLE
 CHICKADEE, JIGGING ASSEMBLY

FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	
GENERAL TOLERANCES LINEAR DIMENSIONS	
LINEAR	ALL OTHER FEATURE
0.5 TO 3	±0.1
3 TO 6	±0.2
6 TO 12	±0.3
12 TO 25	±0.4
25 TO 50	±0.5
50 TO 100	±0.6
100 TO 200	±0.8
200 TO 400	±1.0
400 TO 1000	±1.2
1000 TO 2000	±1.5
2000 TO 4000	±2.0
4000 TO 10000	±2.5
10000 TO 20000	±3.0
20000 TO 40000	±4.0
40000 TO 100000	±5.0
100000 TO 200000	±6.0
200000 TO 400000	±8.0
400000 TO 1000000	±10.0
1000000 TO 2000000	±12.0
2000000 TO 4000000	±15.0
4000000 TO 10000000	±20.0
10000000 TO 20000000	±25.0
20000000 TO 40000000	±30.0
40000000 TO 100000000	±40.0
100000000 TO 200000000	±50.0
200000000 TO 400000000	±60.0
400000000 TO 1000000000	±80.0
1000000000 TO 2000000000	±100.0
2000000000 TO 4000000000	±120.0
4000000000 TO 10000000000	±150.0
10000000000 TO 20000000000	±200.0
20000000000 TO 40000000000	±250.0
40000000000 TO 100000000000	±300.0
100000000000 TO 200000000000	±400.0
200000000000 TO 400000000000	±500.0
400000000000 TO 1000000000000	±600.0
1000000000000 TO 2000000000000	±800.0
2000000000000 TO 4000000000000	±1000.0
4000000000000 TO 10000000000000	±1200.0
10000000000000 TO 20000000000000	±1500.0
20000000000000 TO 40000000000000	±2000.0
40000000000000 TO 100000000000000	±2500.0
100000000000000 TO 200000000000000	±3000.0
200000000000000 TO 400000000000000	±4000.0
400000000000000 TO 1000000000000000	±5000.0
1000000000000000 TO 2000000000000000	±6000.0
2000000000000000 TO 4000000000000000	±8000.0
4000000000000000 TO 10000000000000000	±10000.0
10000000000000000 TO 20000000000000000	±12000.0
20000000000000000 TO 40000000000000000	±15000.0
40000000000000000 TO 100000000000000000	±20000.0
100000000000000000 TO 200000000000000000	±25000.0
200000000000000000 TO 400000000000000000	±30000.0
400000000000000000 TO 1000000000000000000	±40000.0
1000000000000000000 TO 2000000000000000000	±50000.0
2000000000000000000 TO 4000000000000000000	±60000.0
4000000000000000000 TO 10000000000000000000	±80000.0
10000000000000000000 TO 20000000000000000000	±100000.0
20000000000000000000 TO 40000000000000000000	±120000.0
40000000000000000000 TO 100000000000000000000	±150000.0
100000000000000000000 TO 200000000000000000000	±200000.0
200000000000000000000 TO 400000000000000000000	±250000.0
400000000000000000000 TO 1000000000000000000000	±300000.0
1000000000000000000000 TO 2000000000000000000000	±400000.0
2000000000000000000000 TO 4000000000000000000000	±500000.0
4000000000000000000000 TO 10000000000000000000000	±600000.0
10000000000000000000000 TO 20000000000000000000000	±800000.0
20000000000000000000000 TO 40000000000000000000000	±1000000.0
40000000000000000000000 TO 100000000000000000000000	±1200000.0
100000000000000000000000 TO 200000000000000000000000	±1500000.0
200000000000000000000000 TO 400000000000000000000000	±2000000.0
400000000000000000000000 TO 1000000000000000000000000	±2500000.0
1000000000000000000000000 TO 2000000000000000000000000	±3000000.0
2000000000000000000000000 TO 4000000000000000000000000	±4000000.0
4000000000000000000000000 TO 10000000000000000000000000	±5000000.0
10000000000000000000000000 TO 20000000000000000000000000	±6000000.0
20000000000000000000000000 TO 40000000000000000000000000	±8000000.0
40000000000000000000000000 TO 100000000000000000000000000	±10000000.0
100000000000000000000000000 TO 200000000000000000000000000	±12000000.0
200000000000000000000000000 TO 400000000000000000000000000	±15000000.0
400000000000000000000000000 TO 1000000000000000000000000000	±20000000.0
1000000000000000000000000000 TO 2000000000000000000000000000	±25000000.0
2000000000000000000000000000 TO 4000000000000000000000000000	±30000000.0
4000000000000000000000000000 TO 10000000000000000000000000000	±40000000.0
10000000000000000000000000000 TO 20000000000000000000000000000	±50000000.0
20000000000000000000000000000 TO 40000000000000000000000000000	±60000000.0
40000000000000000000000000000 TO 100000000000000000000000000000	±80000000.0
100000000000000000000000000000 TO 200000000000000000000000000000	±100000000.0
200000000000000000000000000000 TO 400000000000000000000000000000	±120000000.0
400000000000000000000000000000 TO 1000000000000000000000000000000	±150000000.0
1000000000000000000000000000000 TO 2000000000000000000000000000000	±200000000.0
2000000000000000000000000000000 TO 4000000000000000000000000000000	±250000000.0
4000000000000000000000000000000 TO 10000000000000000000000000000000	±300000000.0
10000000000000000000000000000000 TO 20000000000000000000000000000000	±400000000.0
20000000000000000000000000000000 TO 40000000000000000000000000000000	±500000000.0
40000000000000000000000000000000 TO 100000000000000000000000000000000	±600000000.0
100000000000000000000000000000000 TO 200000000000000000000000000000000	±800000000.0
200000000000000000000000000000000 TO 400000000000000000000000000000000	±1000000000.0
400000000000000000000000000000000 TO 1000000000000000000000000000000000	±1200000000.0
1000000000000000000000000000000000 TO 2000000000000000000000000000000000	±1500000000.0
2000000000000000000000000000000000 TO 4000000000000000000000000000000000	±2000000000.0
4000000000000000000000000000000000 TO 10000000000000000000000000000000000	±2500000000.0
10000000000000000000000000000000000 TO 20000000000000000000000000000000000	±3000000000.0
20000000000000000000000000000000000 TO 40000000000000000000000000000000000	±4000000000.0
40000000000000000000000000000000000 TO 100000000000000000000000000000000000	±5000000000.0
100000000000000000000000000000000000 TO 200000000000000000000000000000000000	±6000000000.0
200000000000000000000000000000000000 TO 400000000000000000000000000000000000	±8000000000.0
400000000000000000000000000000000000 TO 1000000000000000000000000000000000000	±10000000000.0
1000000000000000000000000000000000000 TO 2000000000000000000000000000000000000	±12000000000.0
2000000000000000000000000000000000000 TO 4000000000000000000000000000000000000	±15000000000.0
4000000000000000000000000000000000000 TO 10000000000000000000000000000000000000	±20000000000.0
10000000000000000000000000000000000000 TO 20000000000000000000000000000000000000	±25000000000.0
20000000000000000000000000000000000000 TO 40000000000000000000000000000000000000	±30000000000.0
40000000000000000000000000000000000000 TO 100000000000000000000000000000000000000	±40000000000.0
100000000000000000000000000000000000000 TO 200000000000000000000000000000000000000	±50000000000.0
200000000000000000000000000000000000000 TO 400000000000000000000000000000000000000	±60000000000.0
400000000000000000000000000000000000000 TO 1000000000000000000000000000000000000000	±80000000000.0
1000000000000000000000000000000000000000 TO 2000000000000000000000000000000000000000	±100000000000.0
2000000000000000000000000000000000000000 TO 4000000000000000000000000000000000000000	±120000000000.0
4000000000000000000000000000000000000000 TO 100	±150000000000.0
100 TO 200	±200000000000.0
200 TO 400	±250000000000.0
400 TO 1000	±300000000000.0
1000 TO 2000	±400000000000.0
2000 TO 4000	±500000000000.0
4000 TO 100	±600000000000.0
100 TO 200	±800000000000.0
200 TO 400	±1000000000000.0
400 TO 1000	±1200000000000.0
1000 TO 2000	±1500000000000.0
2000 TO 4000	±2000000000000.0
4000 TO 100	±2500000000000.0
100 TO 200	±3000000000000.0
200 TO 400	±4000000000000.0
400 TO 1000	±5000000000000.0
1000 TO 2000	±6000000000000.0
2000 TO 4000	±8000000000000.0
4000 TO	



SUB ASSEMBLY BREAK DOWN FOR TRANSPORT

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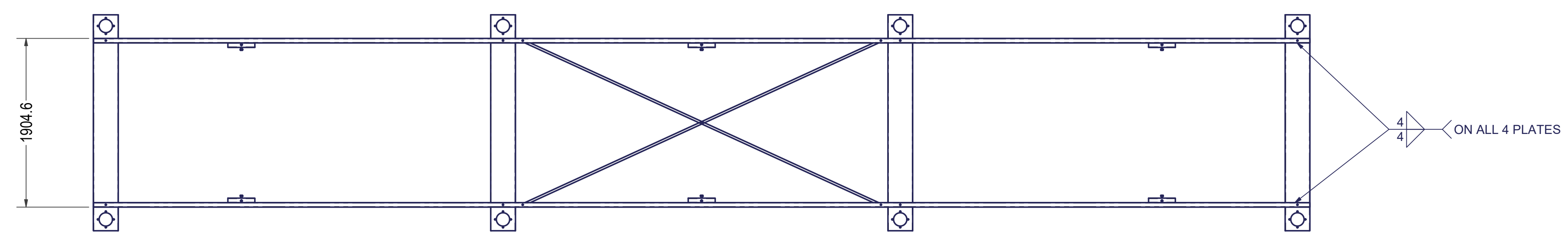
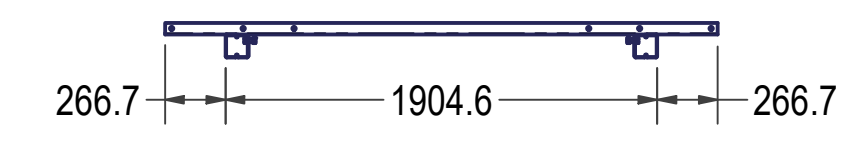
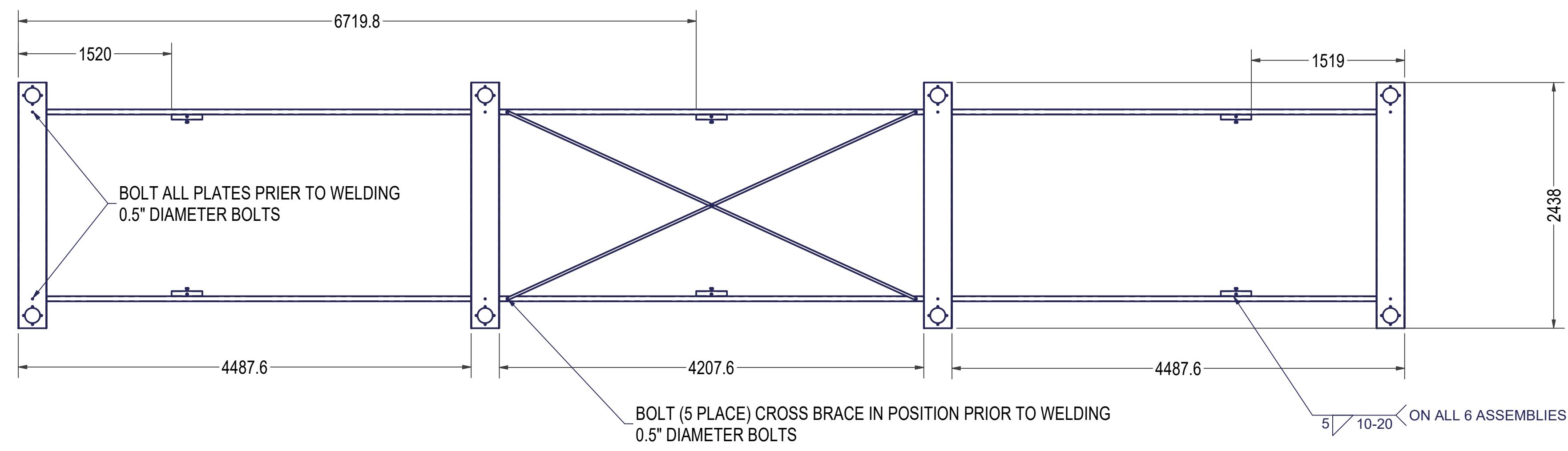
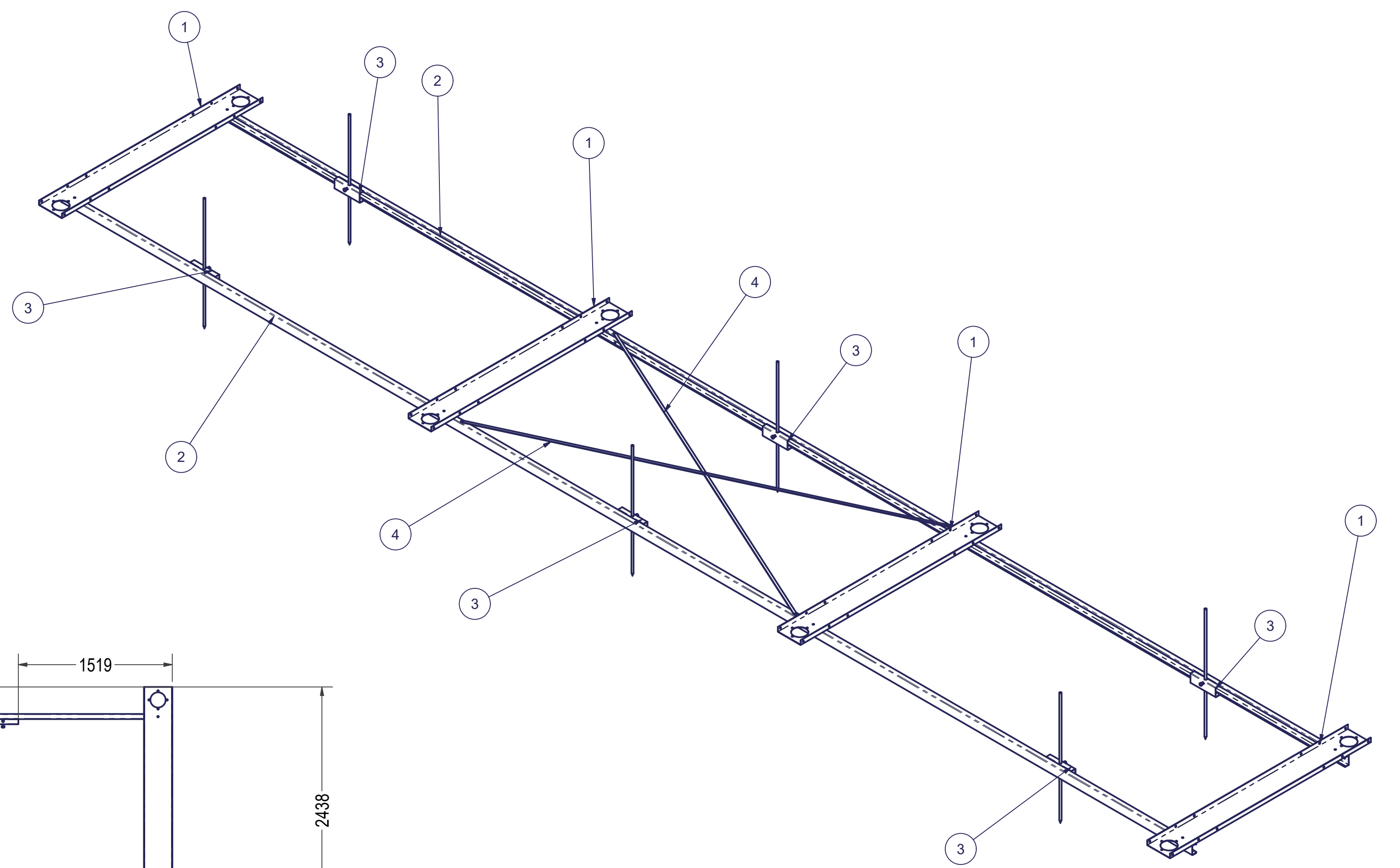
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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
 CHICKADEE, JIGGING ASSEMBLY

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	GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK																													
<table border="1"> <tr> <th>LINEAR</th> <th>0.5</th> <th>3</th> <th>8</th> <th>30</th> <th>120</th> <th>400</th> <th>1000</th> <th>2000</th> </tr> <tr> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> <td>TO</td> </tr> <tr> <td>±0.1</td> <td>±0.1</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> <td>±1.2</td> <td>±2.0</td> <td></td> </tr> </table>	LINEAR	0.5	3	8	30	120	400	1000	2000	TO	TO	TO	TO	TO	TO	TO	TO	TO	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0		DRAWING NUMBER CHICKADEE_JIG_ASSY FOUND		SHEET 2 OF 14 SIZE: B REVISION: 1
LINEAR	0.5	3	8	30	120	400	1000	2000																						
TO	TO	TO	TO	TO	TO	TO	TO	TO																						
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0																							

BOM			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	PLATE J-1	PLATE JIGGING
2	2	CHANNEL J-1	CHANNEL 2"x4"
3	6	LOCK ASSY ANCHOR STAKE	LOCK ASSEMBLY
4	2	STRIP CROSS BRACE	PLATE CROSS BRACE



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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

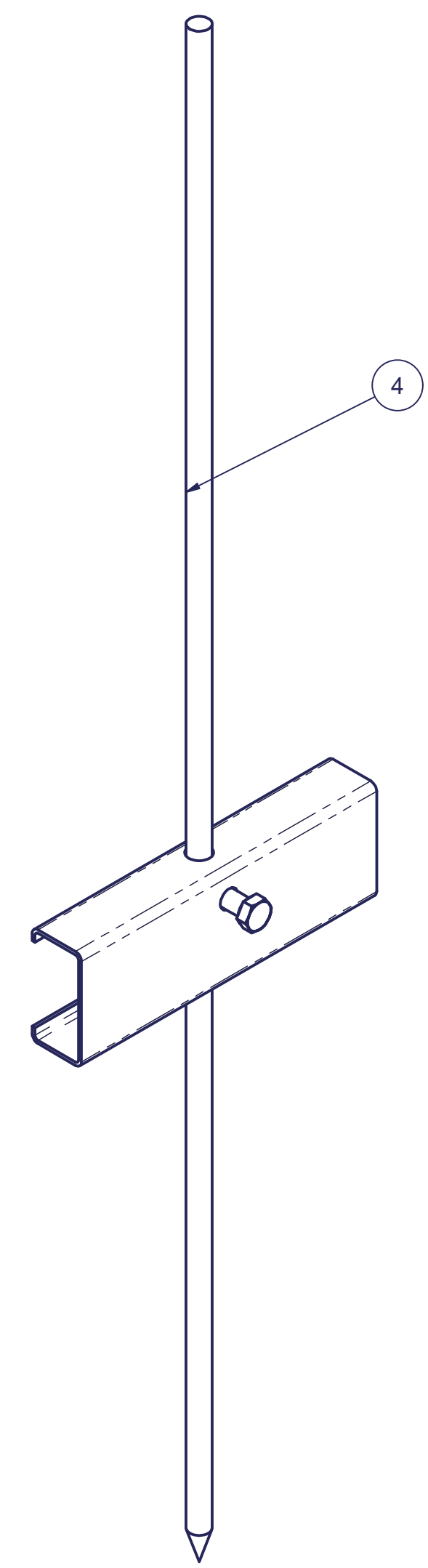
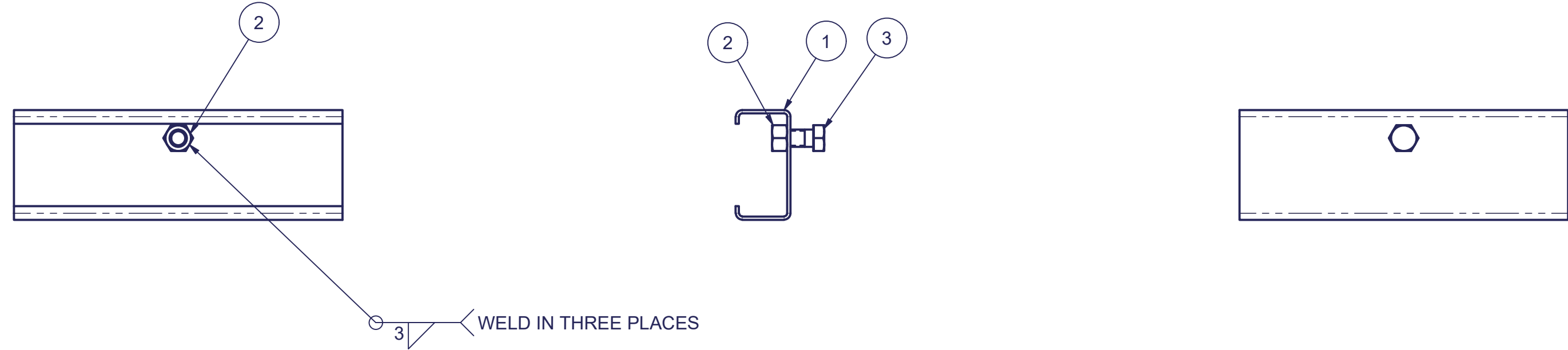
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		LINEAR	0.5 TO 3	3 TO 8	8 TO 120	120 TO 400	400 TO 1000	1000 TO 2000																
TO	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2																		
TO	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2																		
<p>DRAWING NUMBER</p> <p>JIG FRAME</p> <p>ASSY.FOUND.S1</p> <p>SHEET 3 OF 14 SIZE: B REVISION: 1</p>																								

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	1	CHANNEL J-2		CHANNEL Z7X4"
2	1	AS 2465 - 5/8 UNC		Unified hexagon bolts, screws and nuts (UNC and UNF threads)
3	1	AS 2465 - 5/8 x 1 1/2 UNC		Unified hexagon bolts, screws and nuts (UNC and UNF threads)
4	1	REBAR #6 X 4.5FT		REBAR #6



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 PE0418

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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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--	--	--	--	---	--	----------------------------------	--	------------------------	--	---	--



Ø19mm
#6 0.75"

1371

30

SHARPEN STAKE.

MATERIAL; CARBON STEEL, ASTM 615

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Robert L. Pennington
3/13/2022

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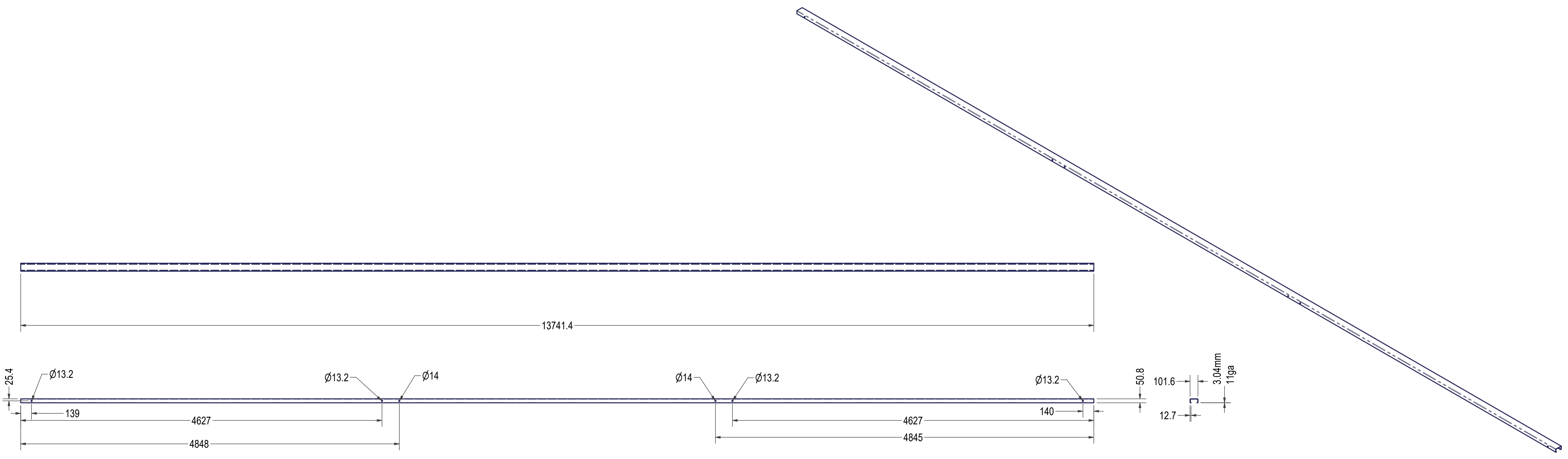
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MATERIAL	Generic
THICK	
MASS	0.383 kg
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

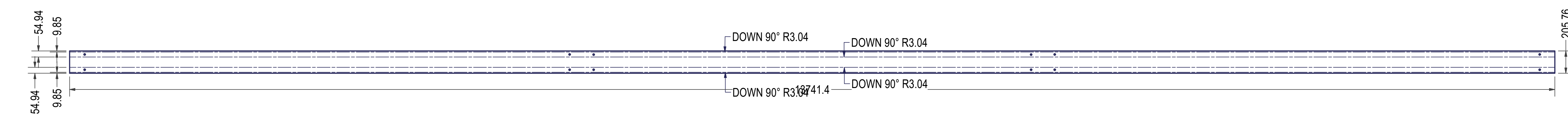


TITLE
REBAR #6

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		GENERAL TOLERANCES LINEAR DIMENSIONS DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK			
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 10 TO : 15 TO : 30 TO : 60 TO : 120 TO : 240 TO : 480 TO : 960 TO : 1920	ANGULAR TO : ±0.1 TO : ±0.2 TO : ±0.3 TO : ±0.5 TO : ±0.8 TO : ±1.2 TO : ±2.0	0.5 : ±0.1 3 : ±0.2 6 : ±0.3 10 : ±0.4 15 : ±0.5 30 : ±0.7 60 : ±1.0 120 : ±1.5 240 : ±2.0 480 : ±3.0 960 : ±4.5 1920 : ±7.0	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	SHEET 6 OF 14 SIZE: B REVISION: 1		



DXF FILE : CHANNEL J-1_1



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 3/13/2022

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 SEAL 25045
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 PROFESSIONAL ENGINEERING BOARD

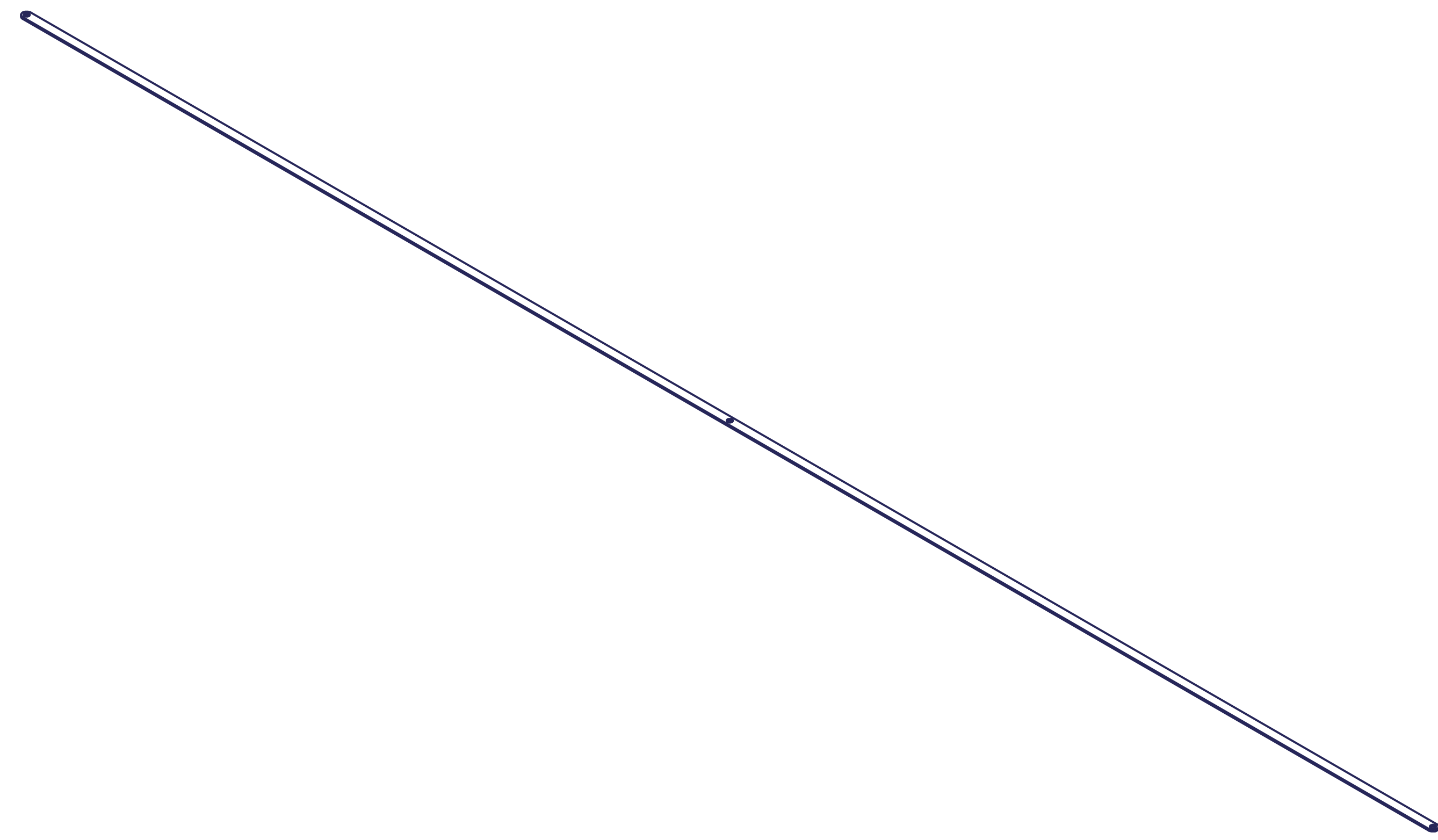
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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

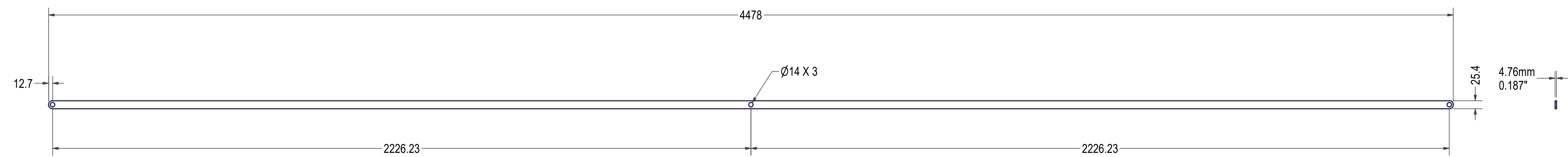


TITLE
CHANNEL 2"x4"

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LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000	2000 TO 4000	4000 TO 6000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0		
DRAWING NUMBER		SHEET 8 OF 14		SIZE B		REVISION: 1			
CHANNEL J-1									



DXF FILE: STRIP CROSS BRACE_1



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 Robert L. Pennington
 00645993535DF452
 3/13/2022

ROBERT L. PENNINGTON
 PROFESSIONAL ENGINEER
 SEAL 26045
 NORTH CAROLINA
 ENGINEER

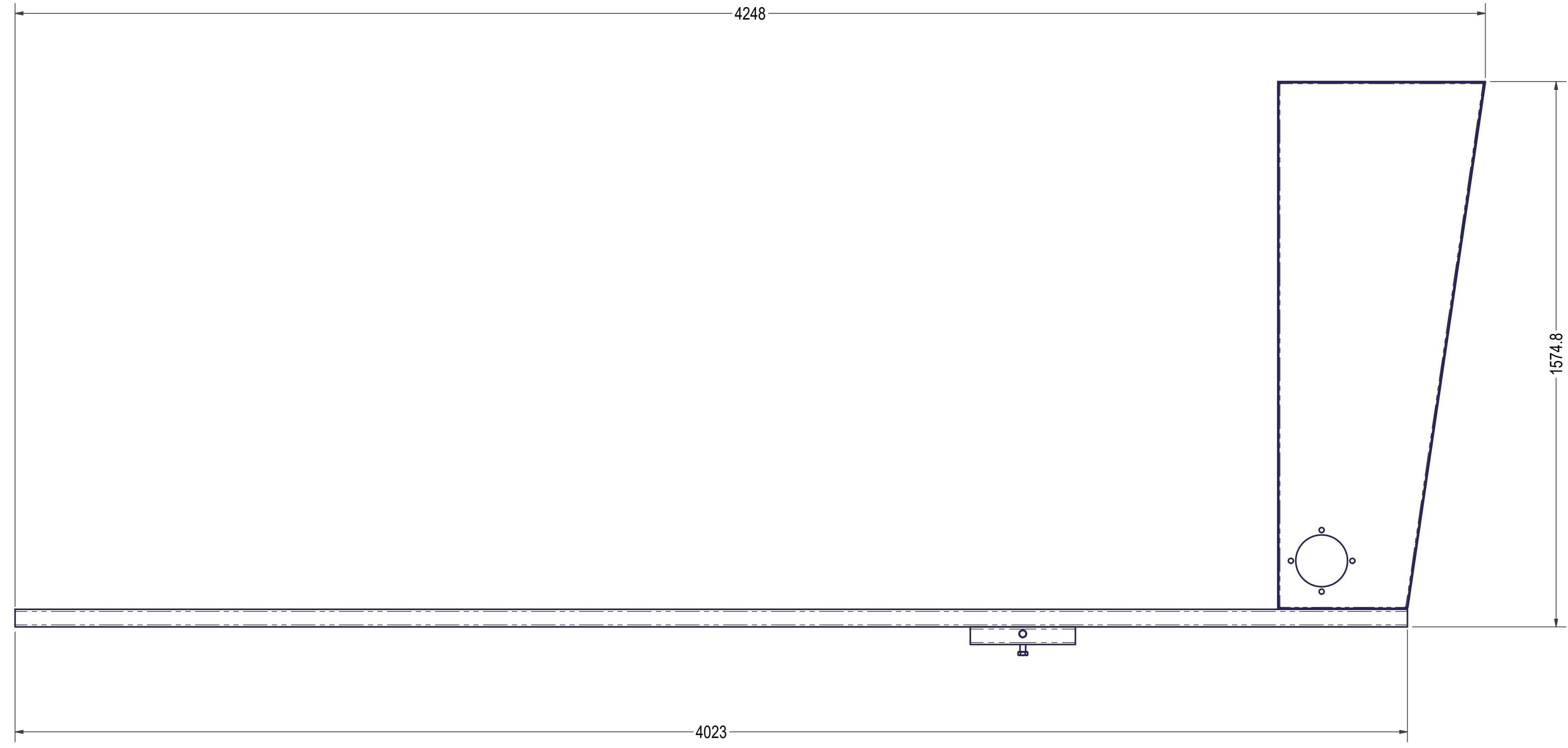
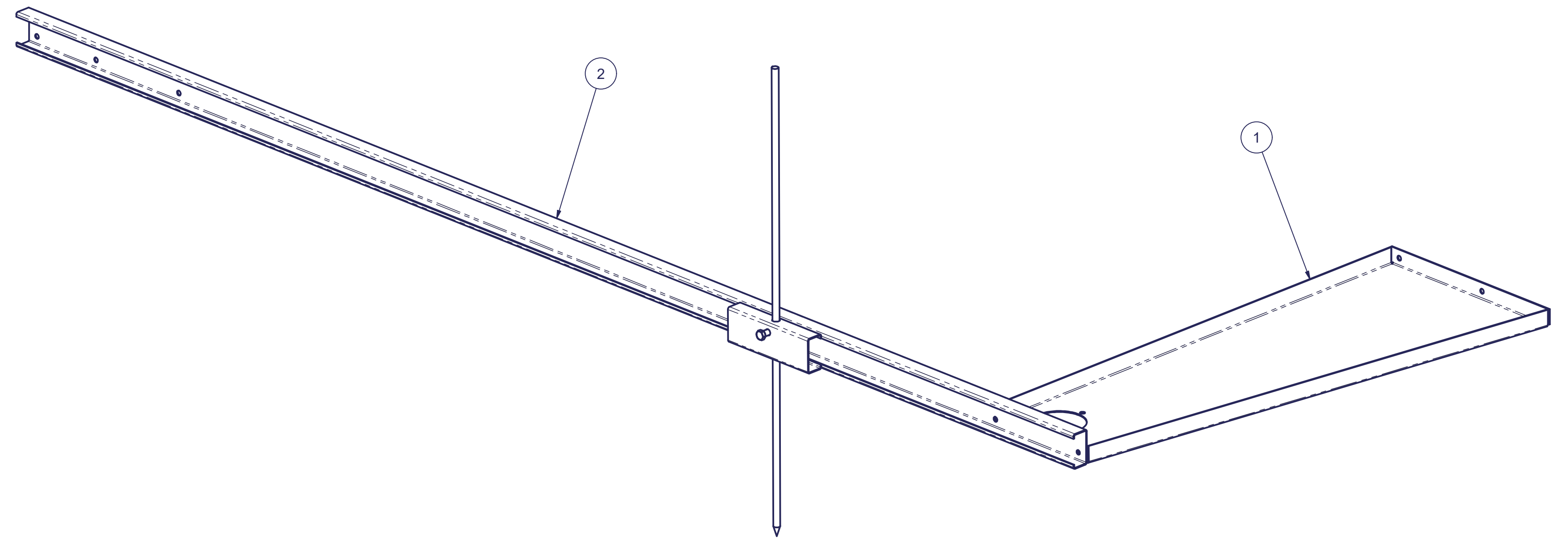
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 Phone: 910-520-0278

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MATERIAL	Steel ASTM A1011 CS Type B
THICK	4.763 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



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LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000	2000 TO 4000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	±3.0
TITLE PLATE CROSS BRACE						SHEET 9 OF 14	SIZE B	REVISION: 1

ITEM	QTY	PART NUMBER	BOM	DESCRIPTION
1	1	PLATE J-3		PLATE JIGGING
2	1	SUPPORT ASSY-1		SUPPORT



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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022

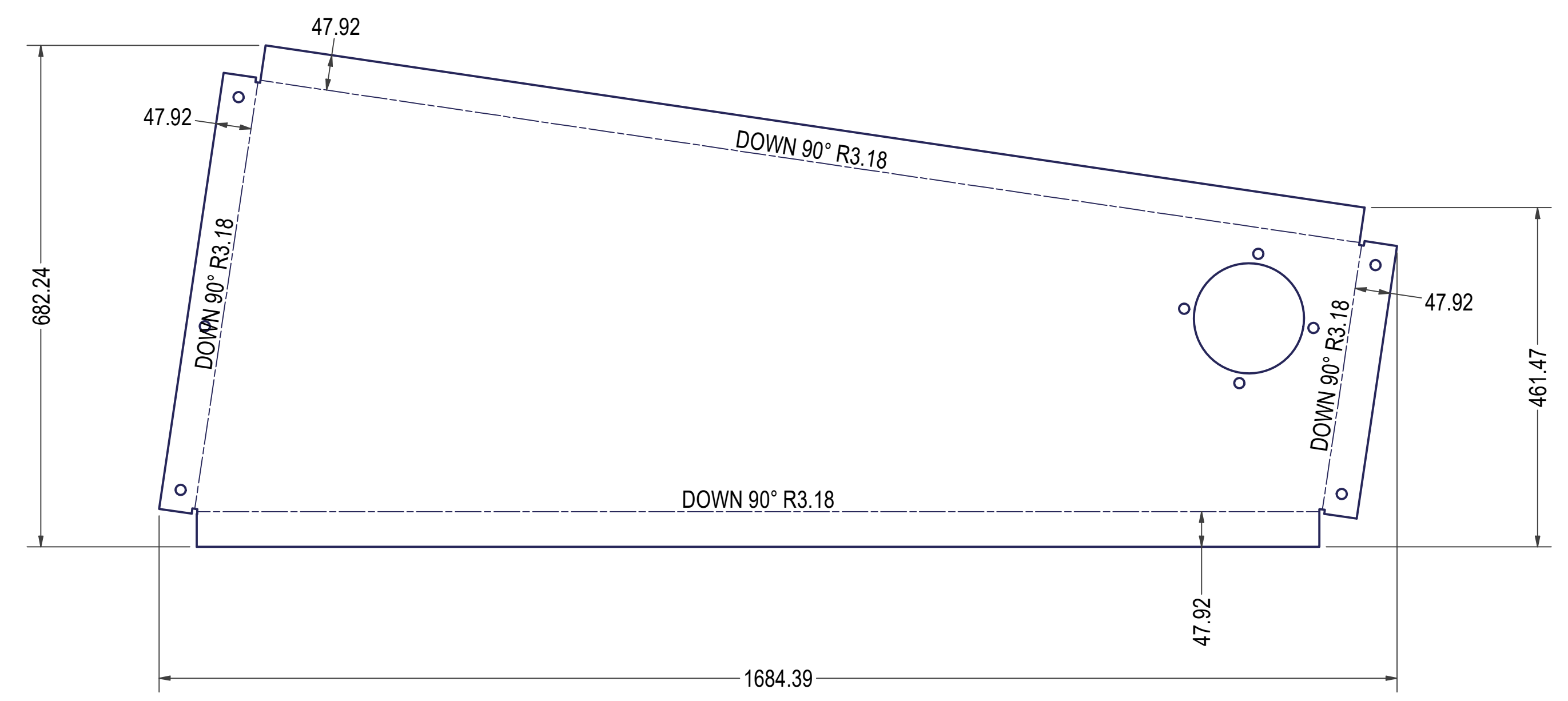
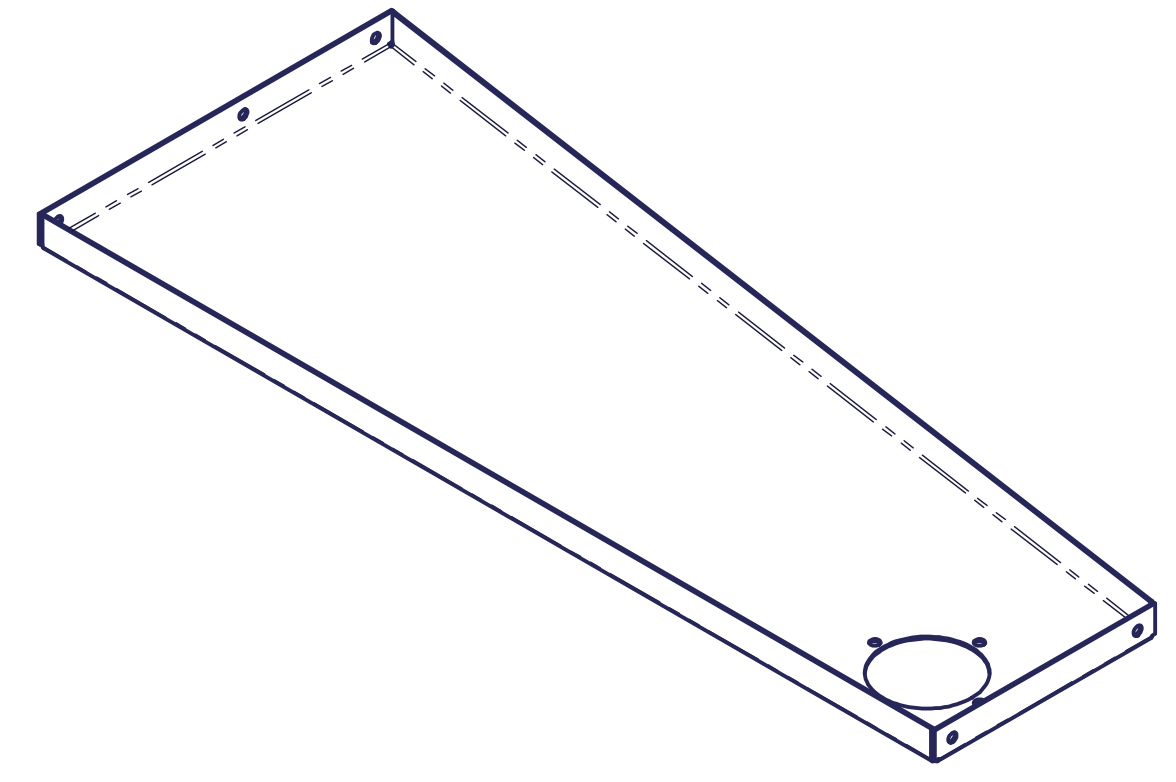
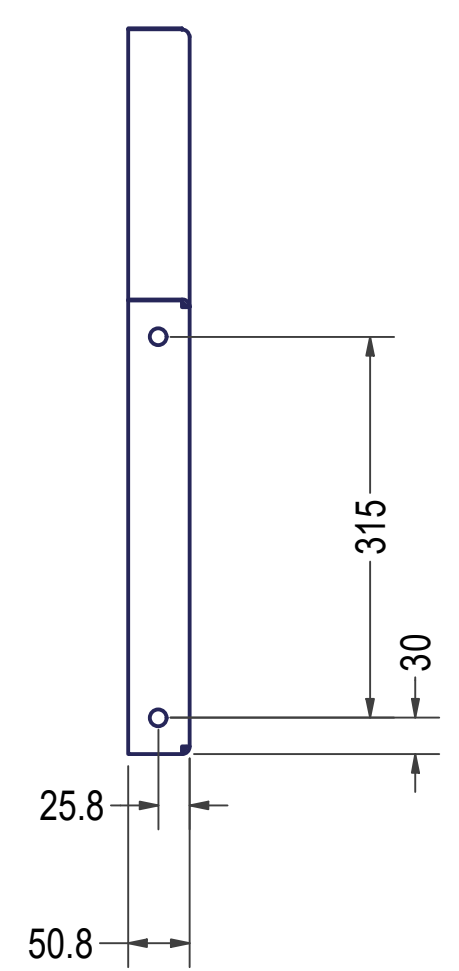
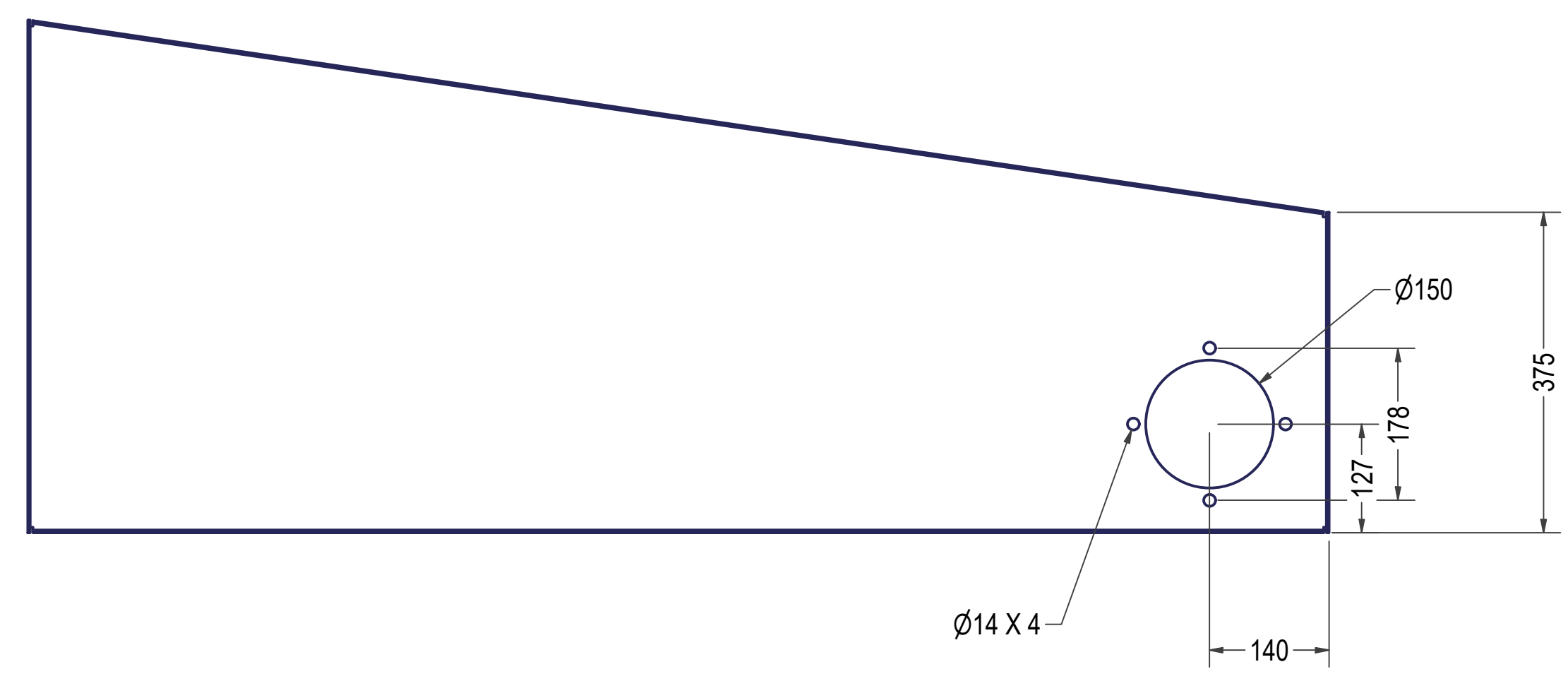
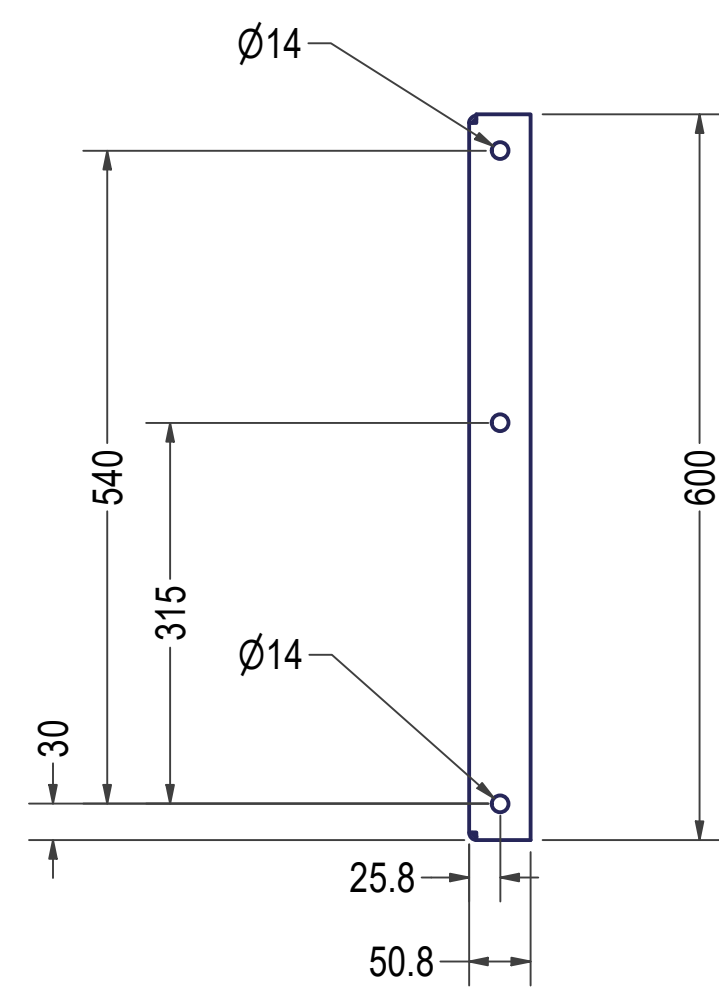


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LINEAR	0.5	3	8	30	120	400	1000	2000	4000		
TO	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0			



DXF FILE: PLATE J-3_1



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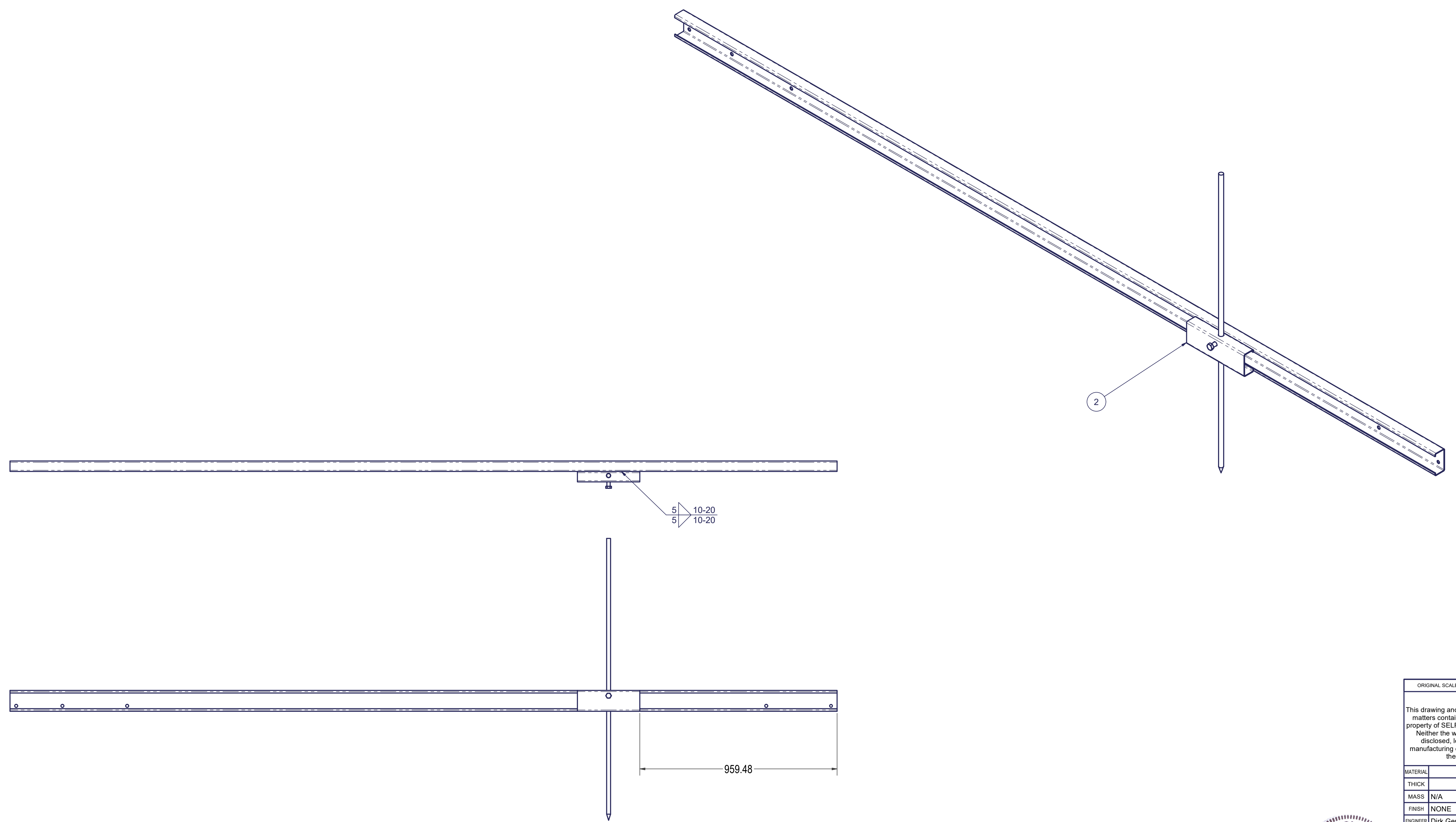
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MATERIAL	SHAFT STOCK, AISI 1018 CF
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
 PLATE JIGGING

FLAT PATTERN GEOMETRY IS GOVERNED BY DXF WITH THE EXPECTED TOLERANCE OF +/- 0.15mm ON ALL DXF CUTS		THIS PRINT IS SHARED ON A CONFIDENTIAL BASIS SUBJECT TO RETURN UPON DEMAND BY SSS AND NOTHING HEREON MAY BE REPRODUCED, USED OR DISCLOSED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN PERMISSION OF OSPRE.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURES DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK		REMOVE ALL SHARP EDGES AND BURRS THIRD ANGLE PROJECTION		DRAWING NUMBER PLATE J-3	
LINEAR	0.5 TO 3	3 TO 6	6 TO 30	30 TO 120	120 TO 400	400 TO 1000	1000 TO 2000	SHEET 11 OF 14	SIZE B
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2.0	REVISION: 1	

ITEM		QTY		PART NUMBER		BOM		DESCRIPTION	
2	1	LOCK ASSY ANCHOR STAKE	LOCK ASSEMBLY						



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MATERIAL	
THICK	
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE: SUPPORT

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	REMOVE ALL SHARP EDGES AND BURRS
LINEAR TO : 0.5 TO : 3 TO : 6 TO : 30 TO : 120 TO : 400 TO : 1000 TO : 2000 TO : 4000 TO : 10000 TO : 20000	TOLERANCE ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2.0	THIRD ANGLE PROJECTION	DRAWING NUMBER SUPPORT ASSY-1



10 9 8 7 6 5 4 3 2 1

F

F

E

E

D

D

C

C

B

B

A

A

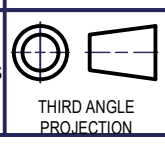
10 9 8 7 6 5 4 3 2 1

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	
GENERAL TOLERANCES LINEAR DIMENSIONS	
LINEAR	ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY UN ISO 2768-mK
0.5 TO 3	±0.2
3 TO 6	±0.3
6 TO 12	±0.5
12 TO 30	±0.8
30 TO 100	±1.2
100 TO 200	±2.0
200 TO 400	±3.0
400 TO 1000	±5.0
1000 TO 2000	±8.0
2000 TO 4000	±12.0
4000 TO 10000	±20.0

REMOVE ALL SHARP EDGES AND BURRS



TITLE SHEET 13 OF 14 SIZE B REVISION 1

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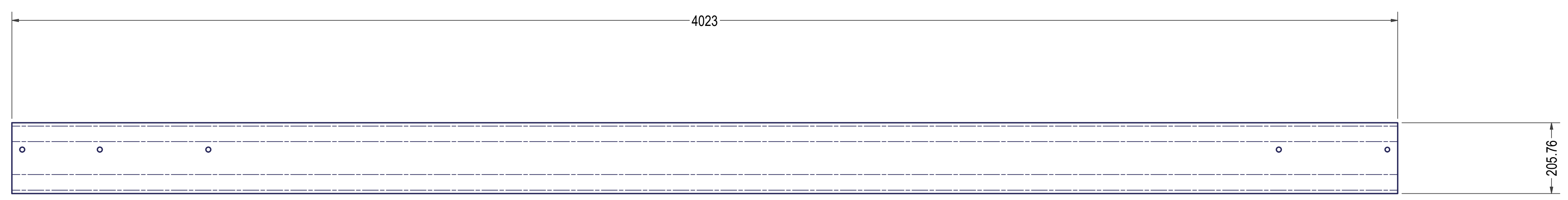
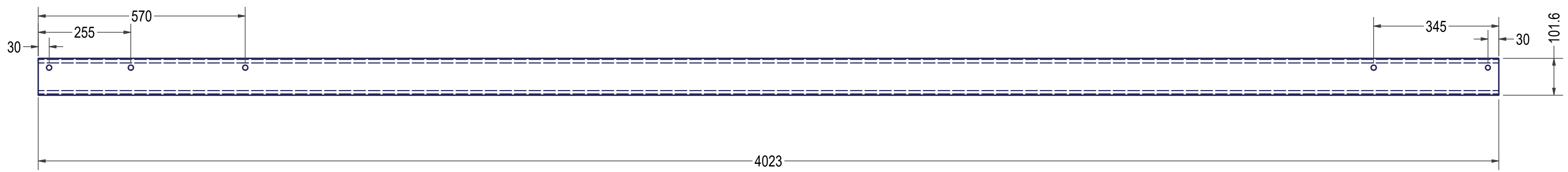
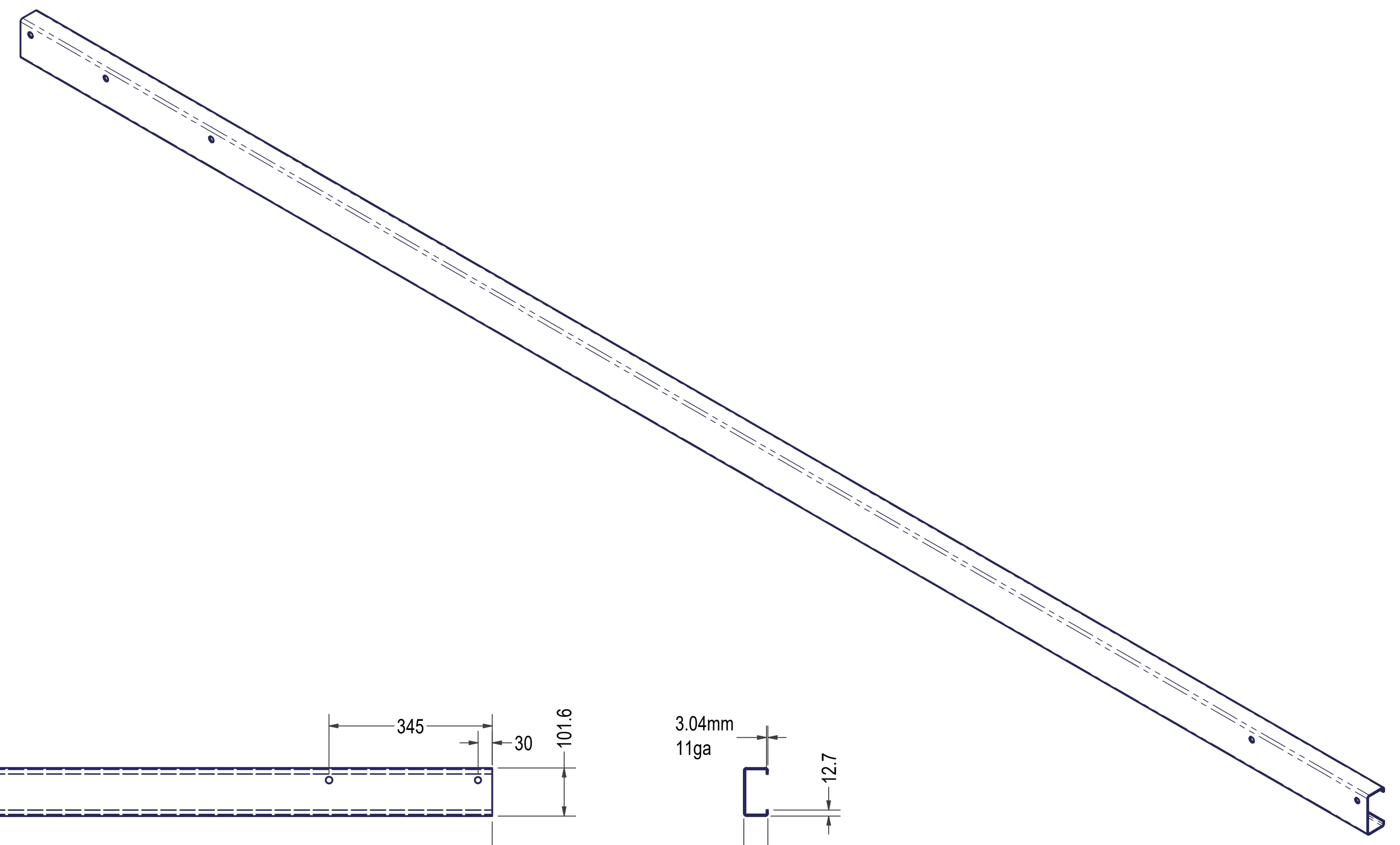
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MATERIAL	
THICK	
MASS	
FINISH	
ENGINEER	
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE

DRAWING NUMBER



DXF FILE: CHANNEL F-5_1

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MATERIAL	Steel ASTM A1011 CS Type B
THICK	3.038 mm
MASS	N/A
FINISH	NONE
ENGINEER	Dirk Genis
DRAWN	Dirk Genis
DATE	2/20/2022



TITLE
 CHANNEL 2"x4"

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		GENERAL TOLERANCES LINEAR DIMENSIONS ALL OTHER FEATURE DIMENSION TOLERANCES ARE GOVERNED BY DIN ISO 2768-mK	SHEET 14 OF 14			