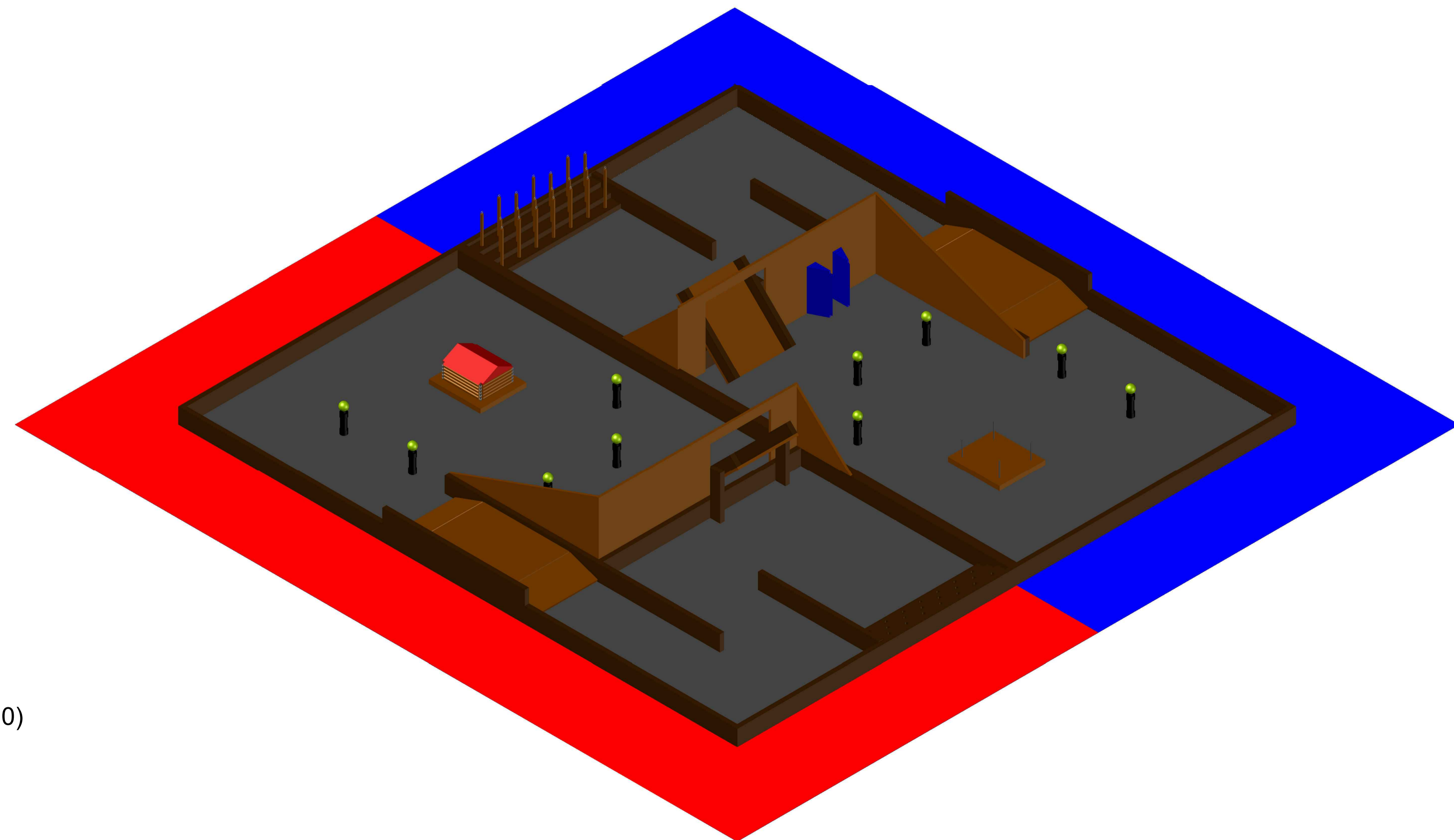


# 2021 SKILLS CANADA NATIONAL ROBOTICS COMPETITION

QUEBEC CITY, QUEBEC, CANADA

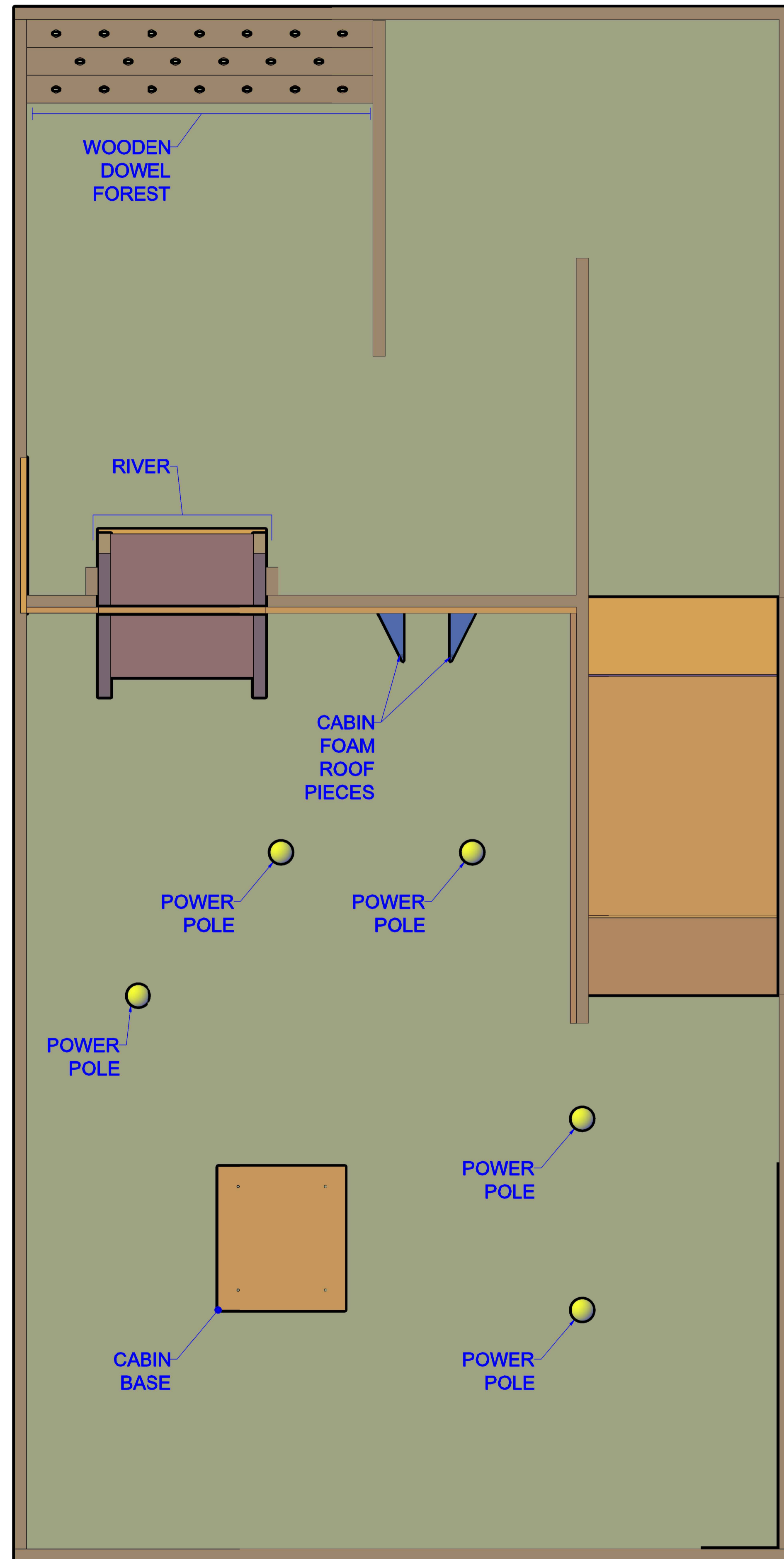
APPENDIX A: COURT AREA DIMENSIONS  
AND DETAILS - ISO A1 SIZE

DRAWING INDEX		
SHEET NO.	DWG. TITLE	DWG. NO.
0	COVER SHEET	SC-ROB-0
1	COURT AREA DIMENSIONS	SC-ROB-1
2	MATERIAL CUT SHEET LABELS	SC-ROB-2
3	MATERIAL CUT SHEET	SC-ROB-3
4	SMALL PART DETAILS	SC-ROB-4



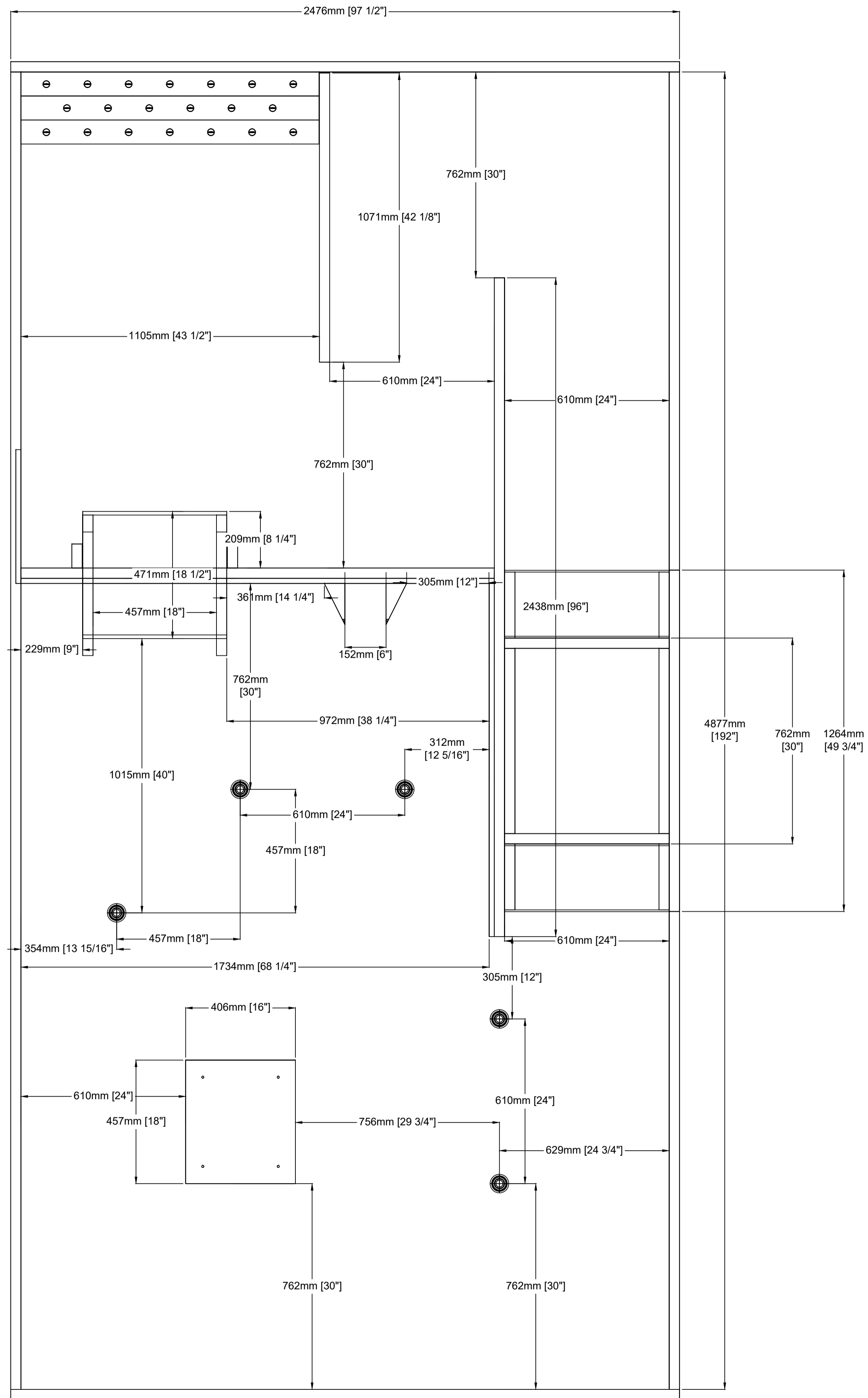
ISSUED FOR SCOPE DOCUMENT: JULY 27TH, 2020 (REV. 0)

① OVERALL COURT AREA  
SCALE = N/A



**1 COURT LAYOUT**  
SCALE = 1:10 (ON ISO A1 SHEET)

0mm 200mm 400mm



**2 COURT DIMENSIONS**  
SCALE = 1:10 (ON ISO A1 SHEET)

0mm 200mm 400mm

**Notes:**

- ALL MATERIALS LISTED ON ALL DRAWINGS (SC-ROB-1, SC-ROB-2, SC-ROB-3, AND SC-ROB-4) REPRESENT INFORMATION AND DIMENSIONS FOR A SINGLE COURT AREA, REPRESENTING A SINGLE TEAMS SIDE OF THE COMPETITION FLOOR SPACE. TO BUILD A FULL COURT REPRESENTING 2 TEAM COURT AREAS, MULTIPLY MATERIAL QUANTITIES BY 2.
- SEE DRAWING SC-ROB-04 FOR DIMENSION DETAILS ON SMALLER COURT PIECES, INCLUDING THE FOAM PIECES, UTILITY POLES, AND HOUSE BASE BOLTS.

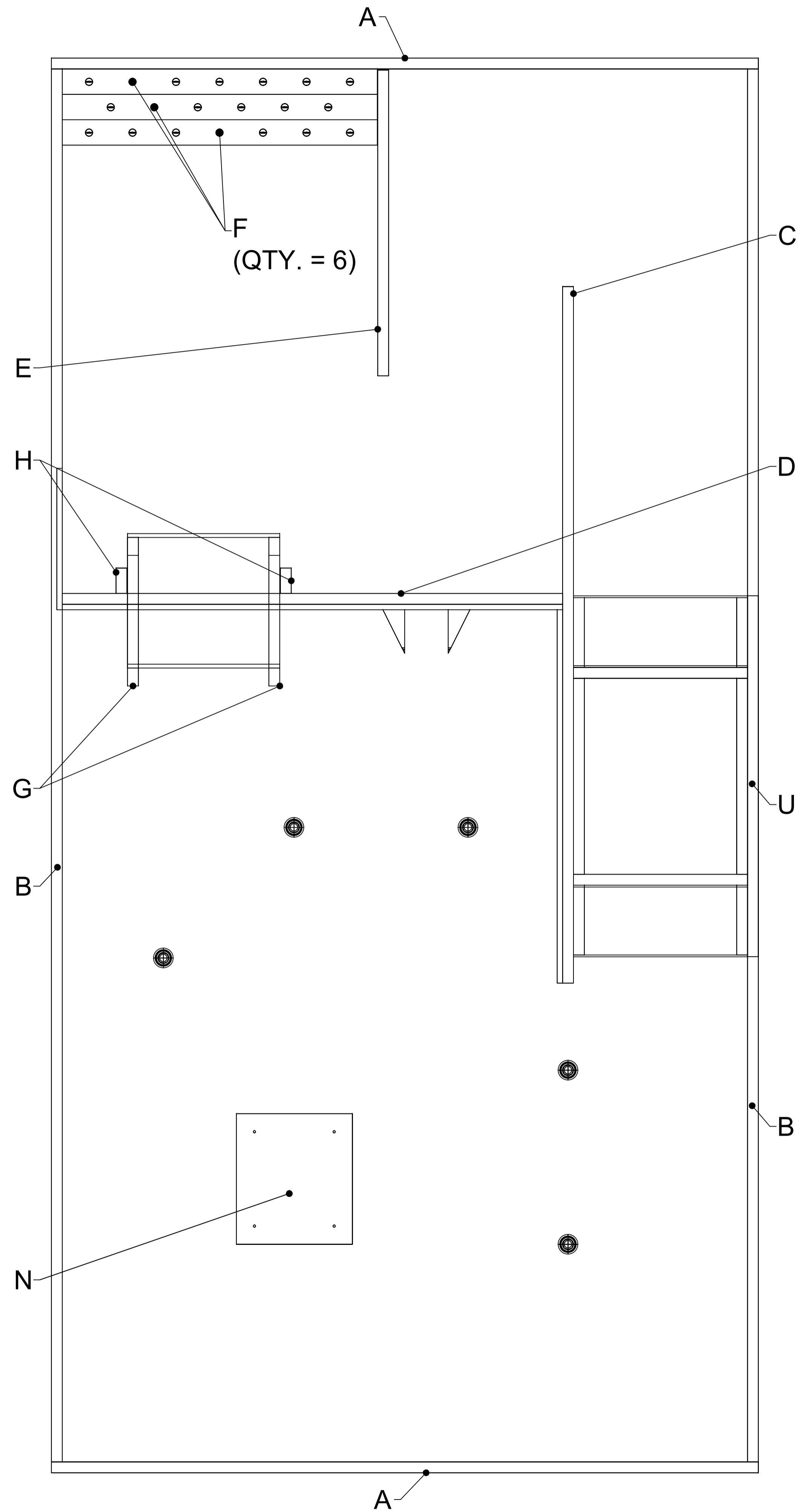
REV: 0	-	-	-	-
0	ISSUED FOR SCOPE DOCUMENT	SM	JUL 27/20	-

STATUS:	NATIONAL SCOPE ISSUE
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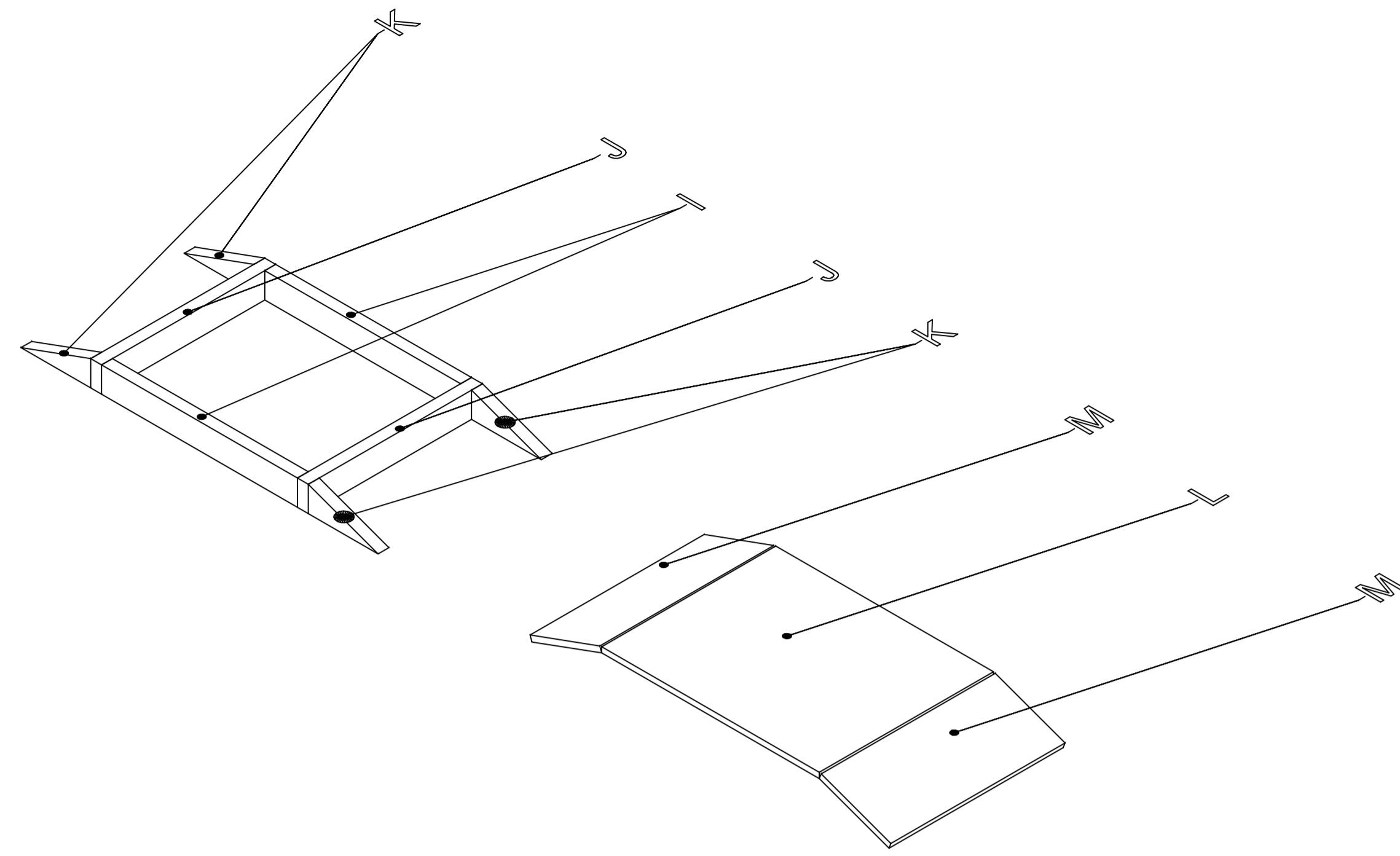
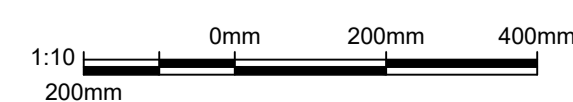
CLIENT:	SKILLS CANADA
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TITLE:	2020 NATIONAL ROBOTICS COMPETITION COURT AREA DIMENSIONS
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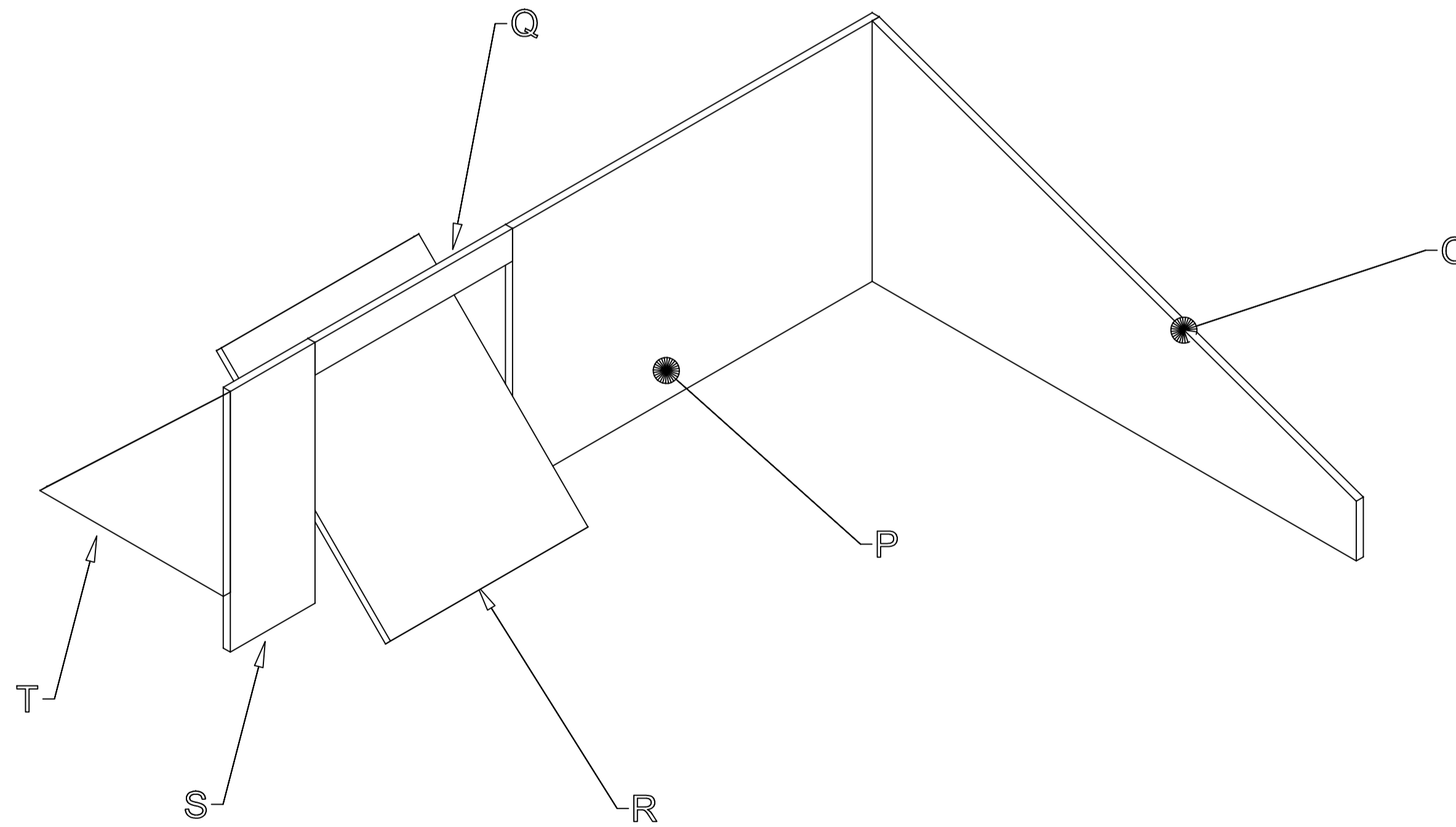
SCALE AT A1:	DATE:	DRAWN:	DESIGNED:
AS NOTED	JUL 27/20	SM	NTC
PROJECT NO:	DRAWING NO:	REVISION:	
-	SC-ROB-1	0	



**1 COURT MATERIAL LABELLING**  
SCALE = 1:10 (ON ISO A1 SHEET)



**2 RAMP MATERIAL LABELLING**  
SCALE = N/A



**3 UPRIGHT PLYWOOD MATERIAL LABELLING**  
SCALE = N/A

**Notes:**

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REV: 0	DESCRIPTION:	BY:	DATE:
-	-	-	-
0	ISSUED FOR SCOPE DOCUMENT	SM	JUL 27/20

STATUS: **NATIONAL SCOPE ISSUE**

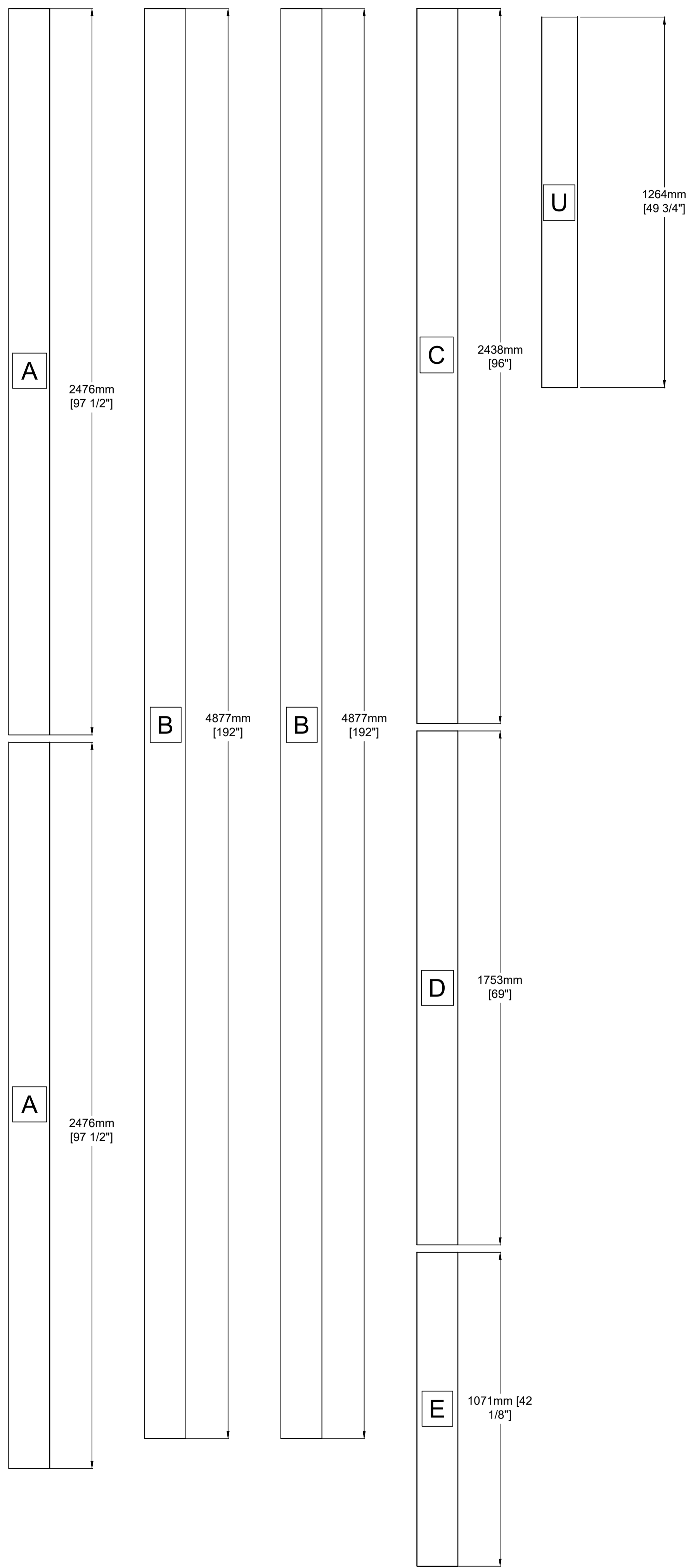
CLIENT: **SKILLS CANADA**

TITLE: **2020 NATIONAL ROBOTICS COMPETITION MATERIAL CUT SHEET LABELS**

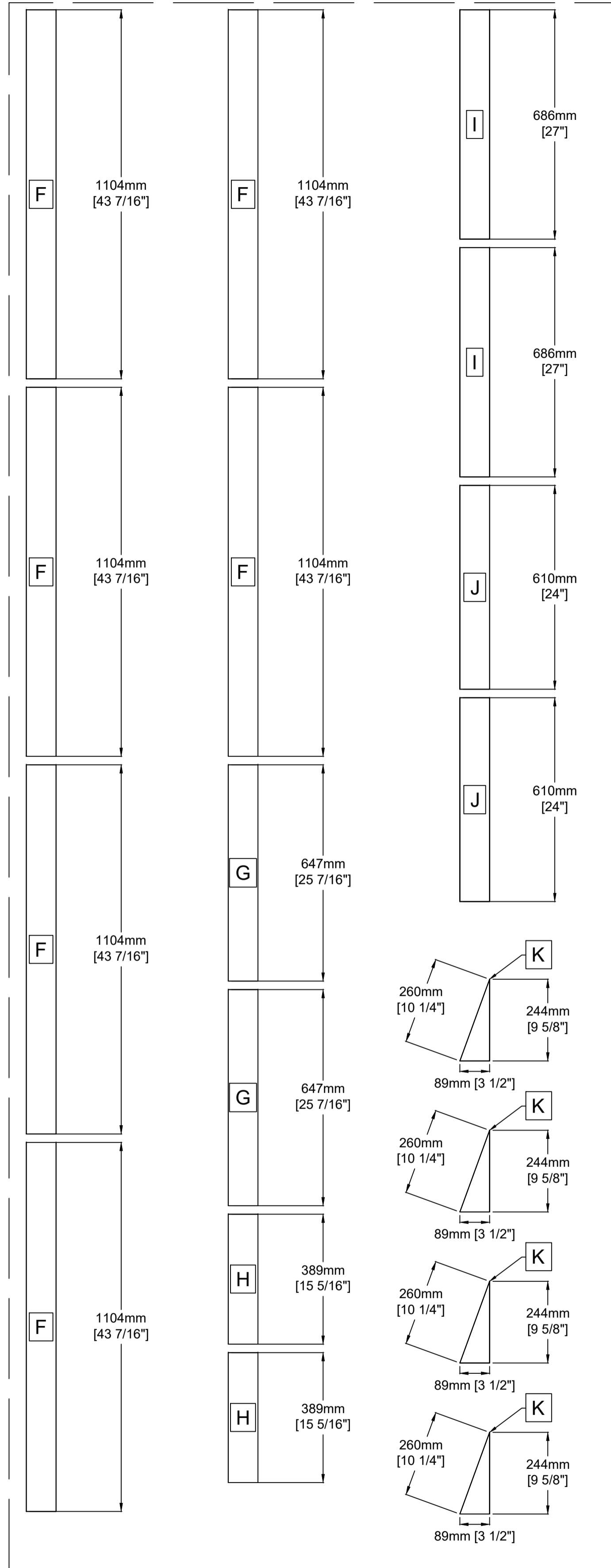
SCALE AT A1:	DATE:	DRAWN:	DESIGNED:
AS NOTED	JUL. 27/20	SM	NTC
PROJECT NO:	DRAWING NO:	REVISION:	
-	SC-ROB-2	0	

Notes:

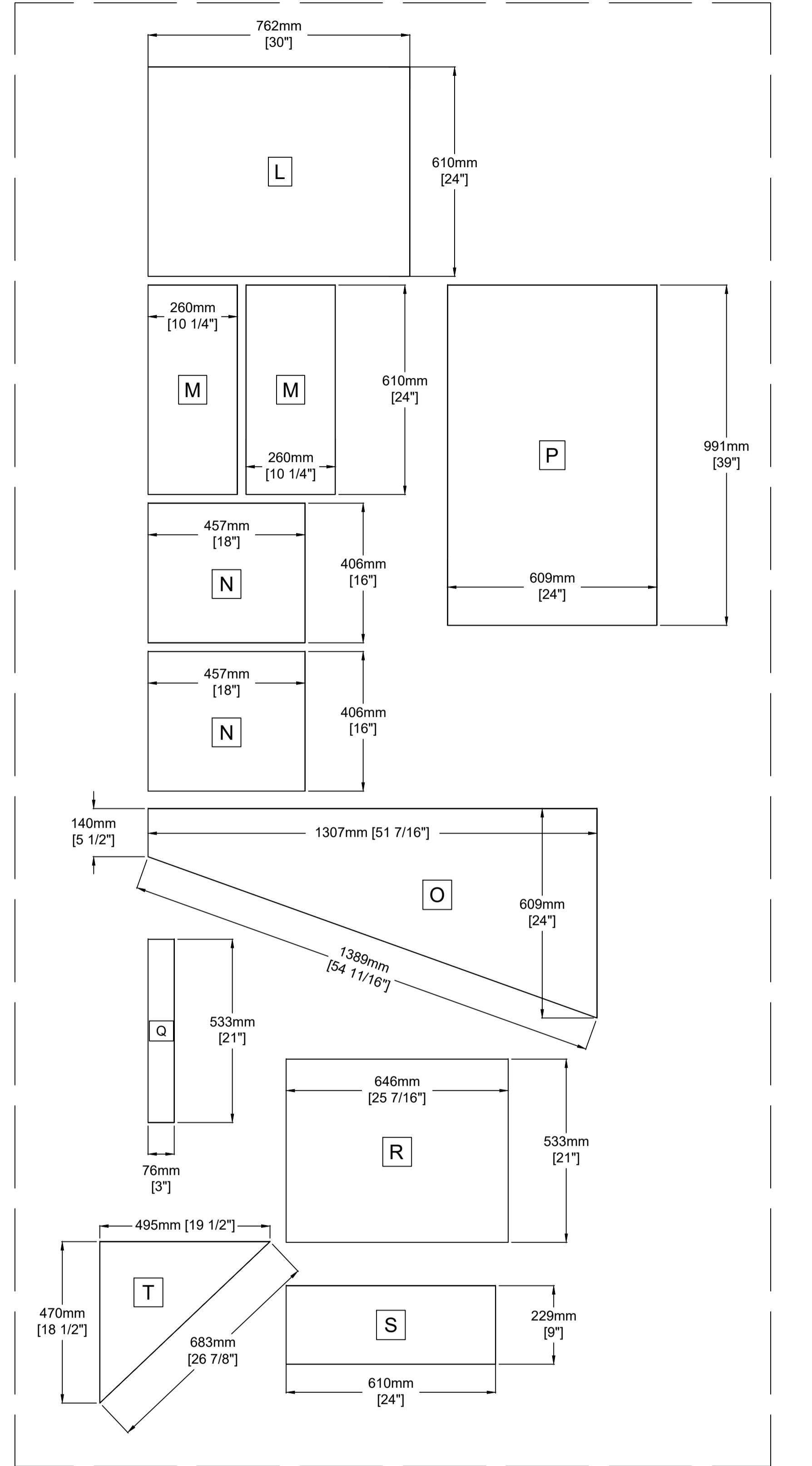
- ALL MATERIALS LISTED ON ALL DRAWINGS (SC-ROB-1, SC-ROB-2, SC-ROB-3, AND SC-ROB-4) REPRESENT INFORMATION AND DIMENSIONS FOR A SINGLE COURT AREA, REPRESENTING A SINGLE TEAM'S SIDE OF THE COMPETITION FLOOR SPACE. TO BUILD A FULL COURT REPRESENTING 2 TEAM COURT AREAS, MULTIPLY MATERIAL QUANTITIES BY 2.



**1** STANDARD 2x6" DIMENSIONS  
SCALE = 1:10 (ON ISO A1 SHEET)



**2** STANDARD 2x4" DIMENSIONS  
SCALE = 1:10 (ON ISO A1 SHEET)



**3** STANDARD 3/4" PLYWOOD DIMENSIONS  
SCALE = 1:10 (ON ISO A1 SHEET)

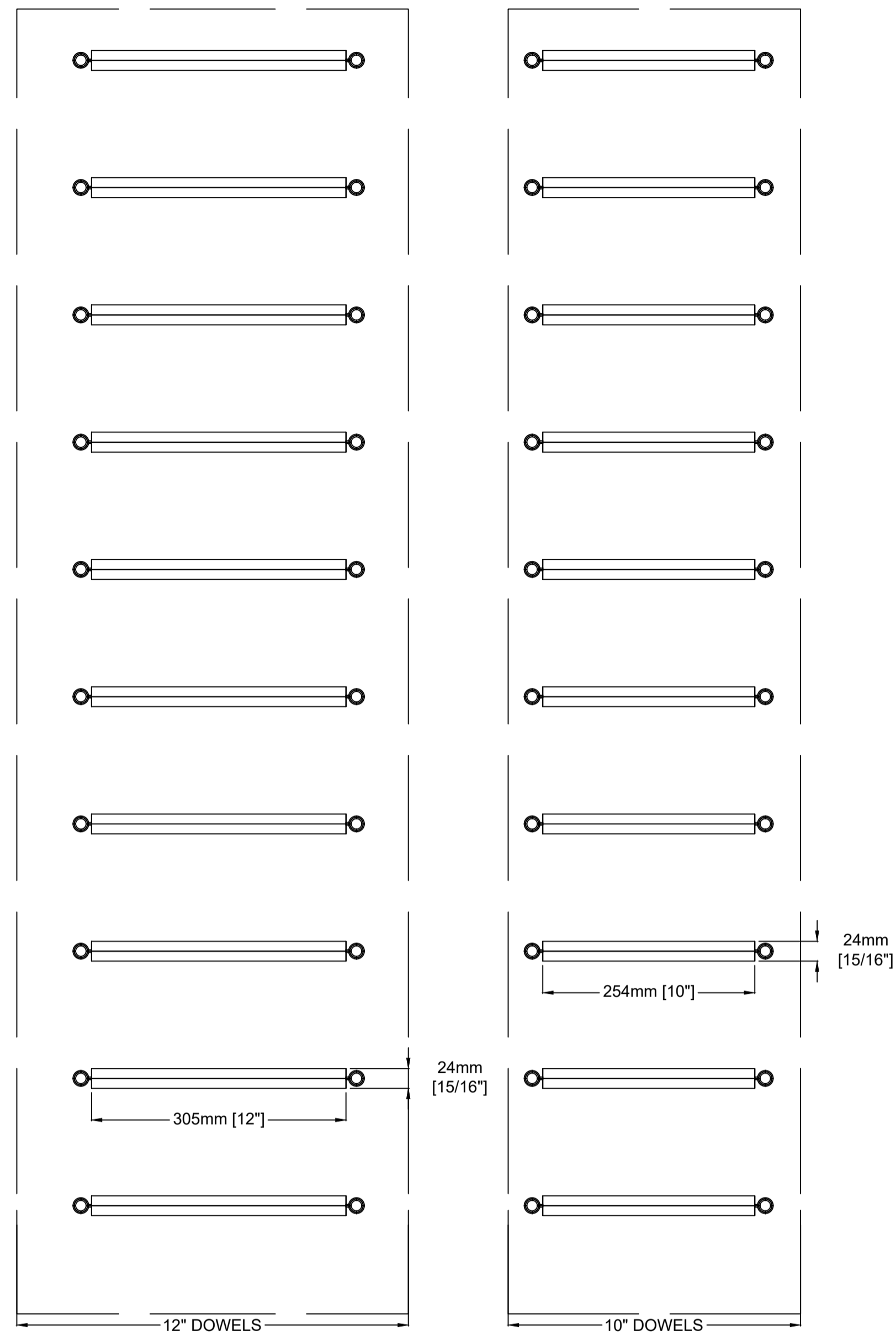
REV: 0	DESCRIPTION:	BY:	DATE:
0	ISSUED FOR SCOPE DOCUMENT	SM	JUL 27/20

STATUS: NATIONAL SCOPE ISSUE

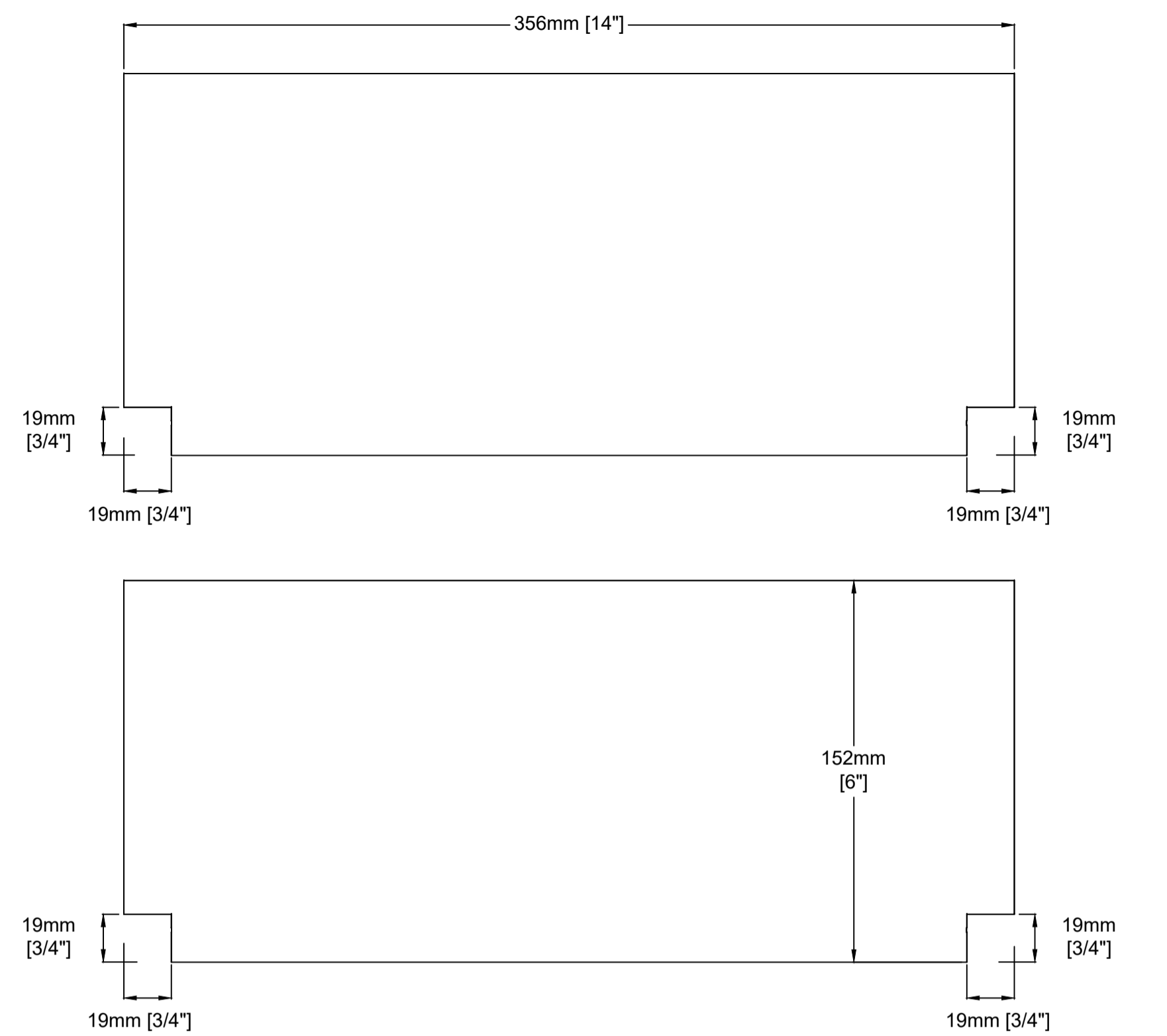
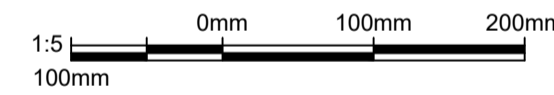
CLIENT: SKILLS CANADA

TITLE: 2020 NATIONAL ROBOTICS COMPETITION  
MATERIAL CUT SHEET

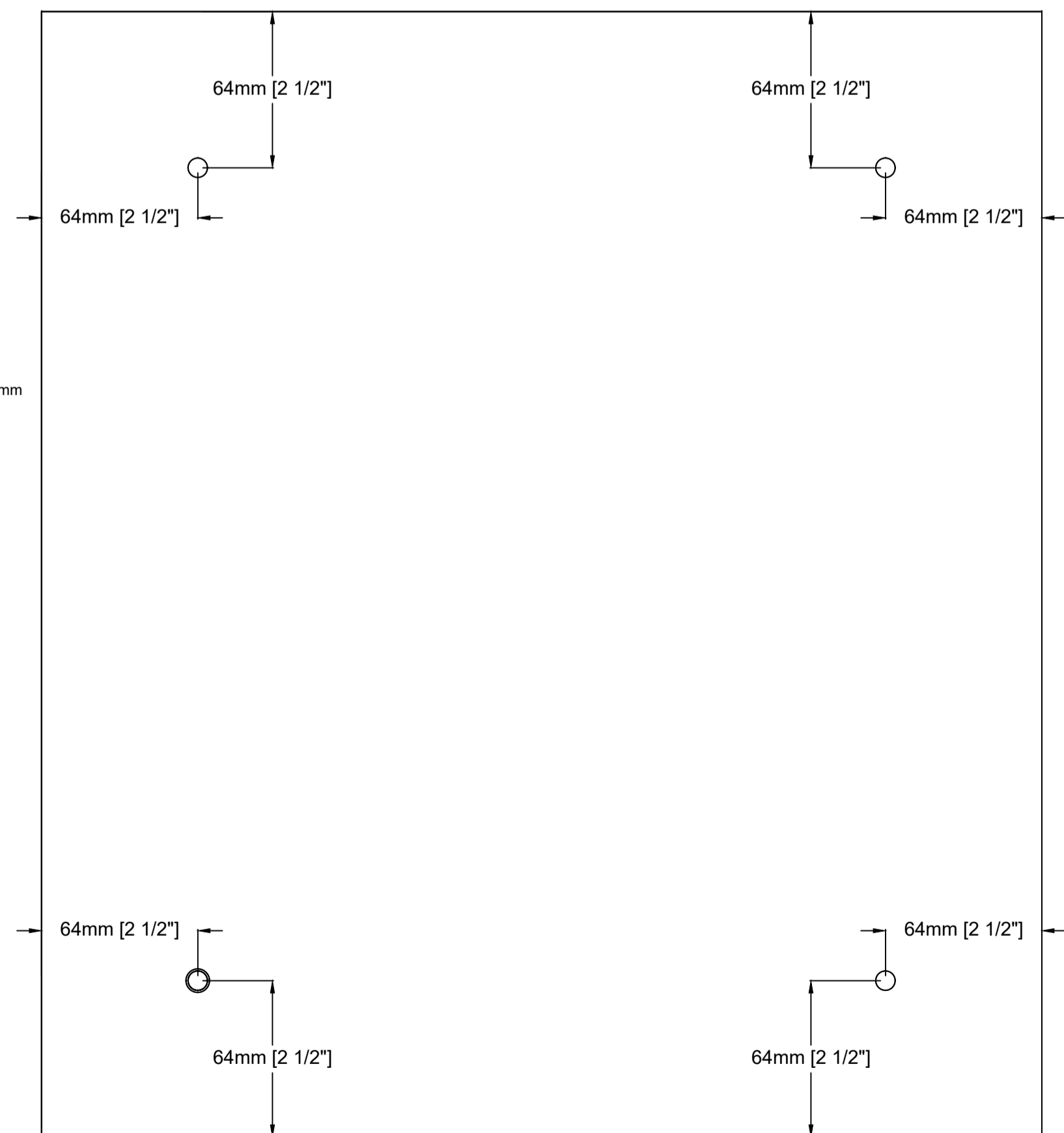
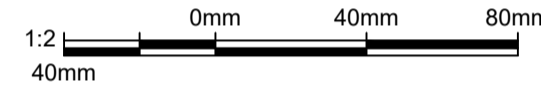
SCALE AT A1:	DATE:	DRAWN:	DESIGNED:
AS NOTED	JUL. 27/20	SM	NTC
PROJECT NO:	DRAWING NO:	REVISION:	
-	SC-ROB-3	0	



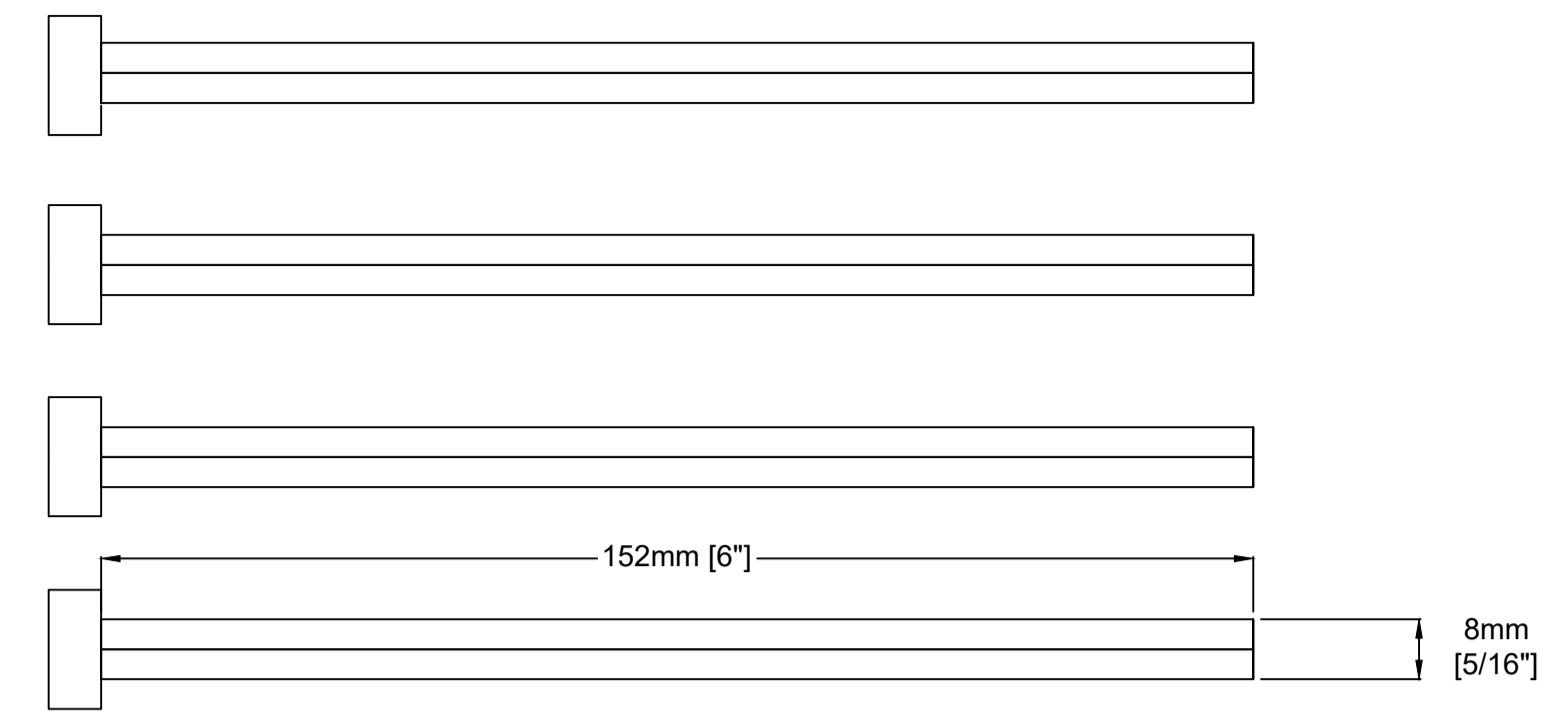
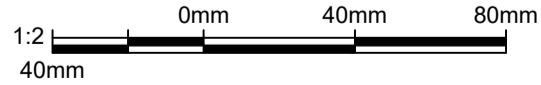
**1 FOREST DOWEL DETAILS**  
SCALE = 1:5 (ON ISO A1 SHEET)



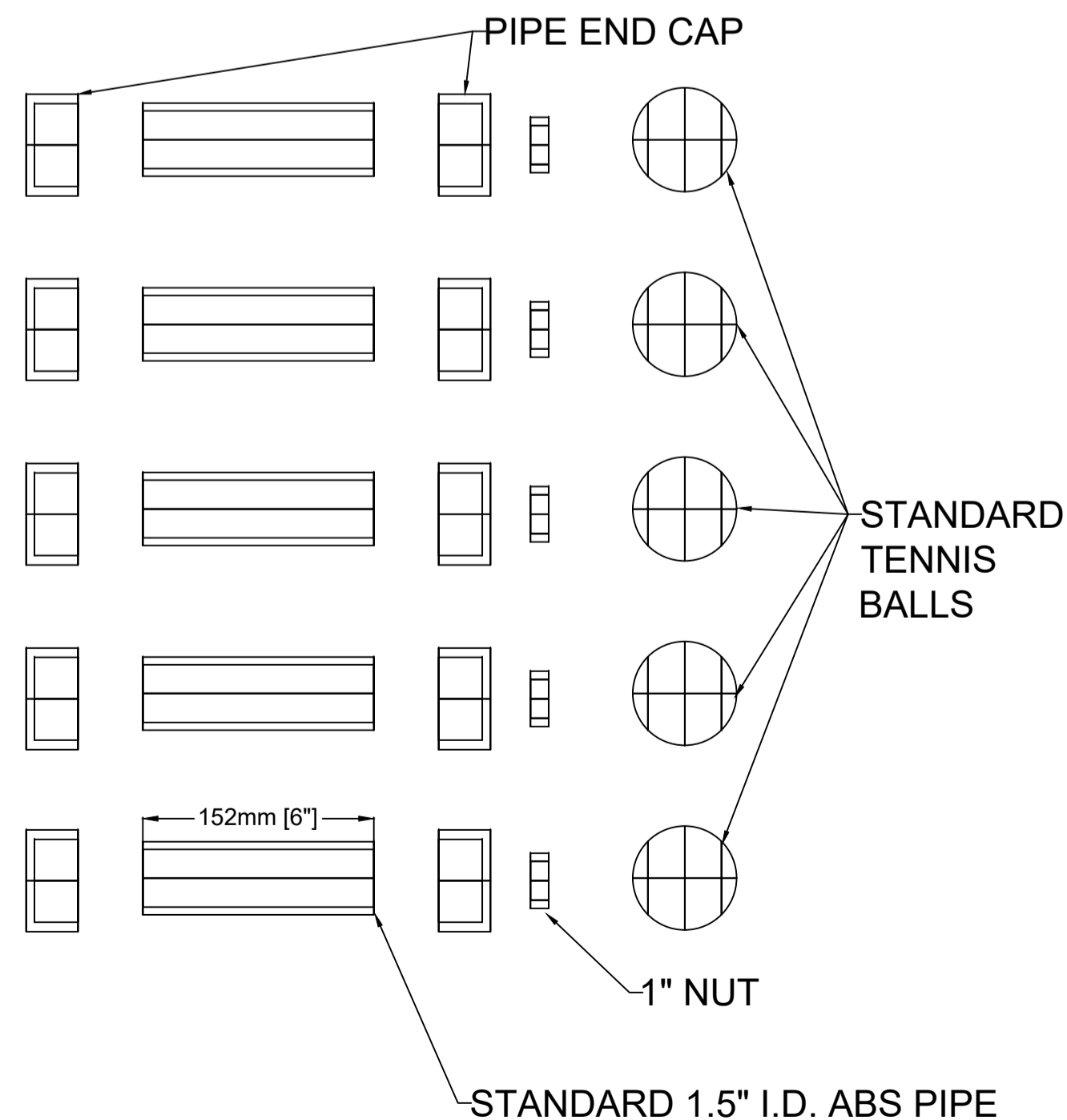
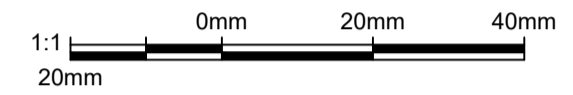
**2 FOAM DETAILS**  
SCALE = 1:2 (ON ISO A1 SHEET)



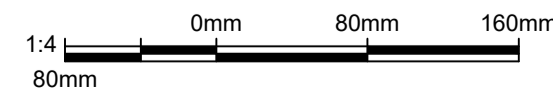
**5 HOUSE BASE DETAILS**  
SCALE = 1:2 (ON ISO A1 SHEET)



**3 WOODEN BASE BOLTS**  
SCALE = 1:1 (ON ISO A1 SHEET)



**4 UTILITY POLE DETAILS**  
SCALE = 1:4 (ON ISO A1 SHEET)



2021 Skills National Robotics Competition: Bill of Materials (1 Court)			
Description	Model Description	Quantity	Web Url
Dowel Eye Hooks	Everbilt 1-5/8 Inch Zinc Large Screw Eye (8 Pack)	6	<a href="https://bit.ly/2EjSf5L">https://bit.ly/2EjSf5L</a>
Wooden Dowels	Alexandria Moulding Hardwood Dowel	6	<a href="https://bit.ly/32VJqZv">https://bit.ly/32VJqZv</a>
Foam Insulation	Foamular C-200 Extruded Polystyrene Rigid Insulation	1	<a href="https://bit.ly/3hKWd65">https://bit.ly/3hKWd65</a>
Tennis Balls	Wilson Prime All Court Tennis Ball 4 Pack (12 Balls)	1	<a href="https://amzn.to/3jDSi0q">https://amzn.to/3jDSi0q</a>
Power Pole Hex Nut	Steel Hex Nut, Zinc Plated Finish, Grade 5, 1"-8 Threads	1	<a href="https://amzn.to/2CX2bBq">https://amzn.to/2CX2bBq</a>
2"x6" x 10' Wood	2" x 6" x 10' Standard SPF Dimension Lumber	4	<a href="https://bit.ly/306D9cx">https://bit.ly/306D9cx</a>
2"x6" x 8' Wood	2" x 6" x 8' Standard SPF Dimension Lumber	5	<a href="https://bit.ly/2BzgyvA">https://bit.ly/2BzgyvA</a>
2"x4" x 8' Wood	2" x 4" x 8' Standard SPF Dimension Lumber	6	<a href="https://bit.ly/2OZZstZ">https://bit.ly/2OZZstZ</a>
3/4" x 4' x 8' Plywood	3/4" x 4' x 8' Standard Sheet of Plywood	2	<a href="https://bit.ly/3hE7LrF">https://bit.ly/3hE7LrF</a>
ABS Pipe	1-1/2" x 12' Standard ABS Pipe	1	<a href="https://bit.ly/302NZQB">https://bit.ly/302NZQB</a>
ABS Cap	1-1/2" ABS Slip On Test Cap	10	<a href="https://bit.ly/2BBYmWd">https://bit.ly/2BBYmWd</a>

**6 BILL OF MATERIALS**  
SCALE = N/A

**Notes:**

- ALL MATERIALS LISTED ON ALL DRAWINGS (SC-ROB-1, SC-ROB-2, SC-ROB-3, AND SC-ROB-4) REPRESENT INFORMATION AND DIMENSIONS FOR A SINGLE COURT AREA, REPRESENTING A SINGLE TEAMS SIDE OF THE COMPETITION FLOOR SPACE. TO BUILD A FULL COURT REPRESENTING 2 TEAM COURT AREAS, MULTIPLY MATERIAL QUANTITIES BY 2.

REV.	DESCRIPTION	BY:	DATE:
-	-	-	-
0	ISSUED FOR SCOPE DOCUMENT	SM	JUL 27/20

STATUS: NATIONAL SCOPE ISSUE

CLIENT: SKILLS CANADA			
TITLE: 2020 NATIONAL ROBOTICS COMPETITION MATERIAL CUT SHEET			
SCALE AT A1:	DATE:	DRAWN:	DESIGNED:
AS NOTED	JUL. 27/20	SM	NTC
PROJECT NO:	DRAWING NO:	REVISION:	
-	SC-ROB-4	0	