
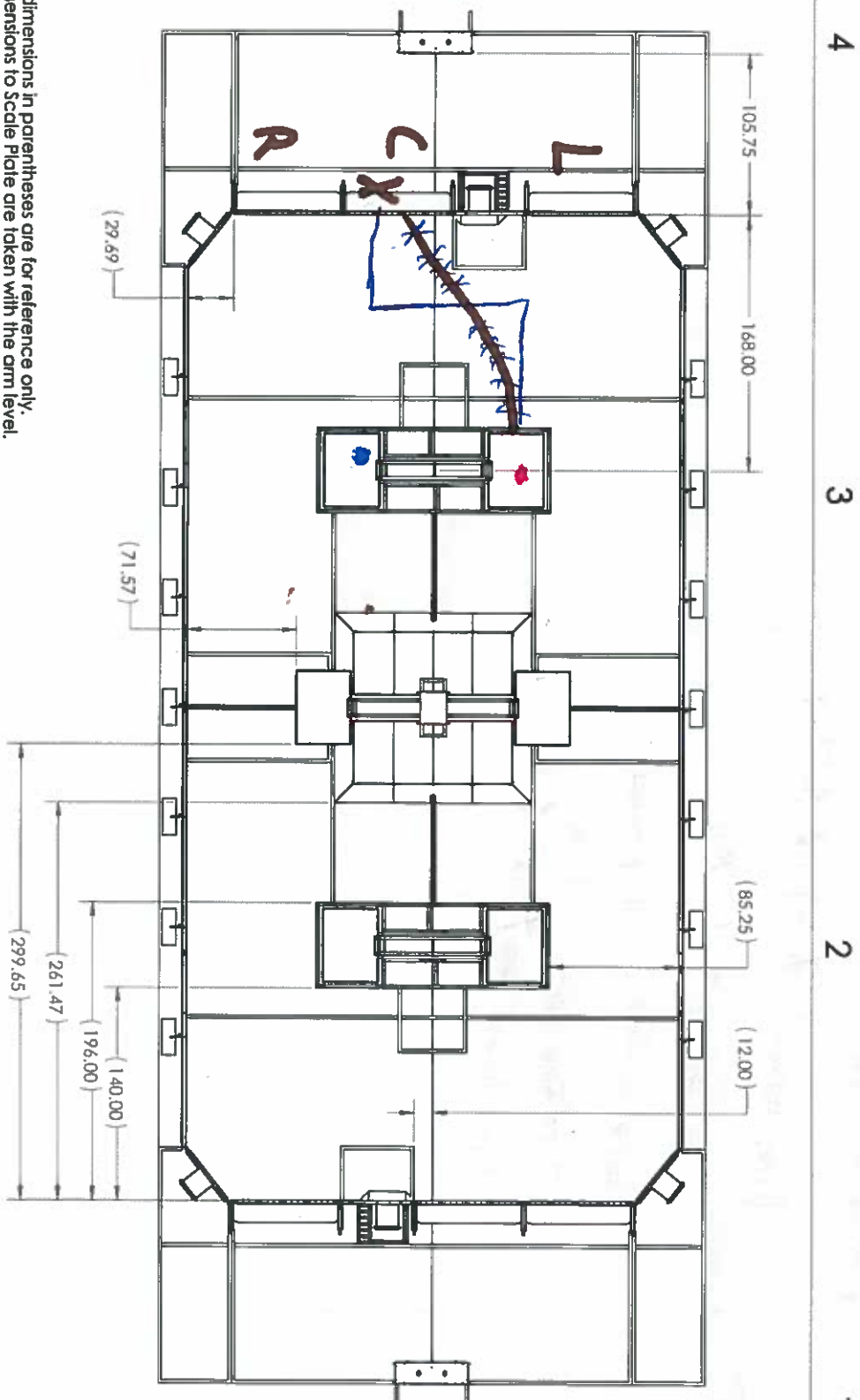
 FIRST ROBOTICS COMPETITION <small>2018-2019 Season</small>		 253 SOLIDWORKS <small>Official Software Sponsor</small>		TITLE: 2018 Field Layout and Marking		SCALE: 1/2"=1'-0" SHEET 3 OF 4	
NAME		DATE		DRAWN		CHECKED	
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LEFT
or
RIGHT STATION, AUTO LINE

MOVE FORWARD PAST AUTO LINE (140)



Robot (108) Team Ultimate



- Notes:
1. All dimensions in parentheses are for reference only.
 2. Dimensions to Scale Plate are taken with the arm level.

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UNLESS OTHERWISE SPECIFIED:		DRAWN		DATE	
DIMENSIONS ARE IN INCHES		CHECKED			
TOLERANCES		BY DATE			
FRACTIONAL 1/16"		BY DATE			
ANGULAR 30° 30° 30°		BY DATE			
TWO PLACE DECIMAL (2.D)		BY DATE			
THREE PLACE DECIMAL (3.D)		BY DATE			
HORIZONTAL DIMENSIONS		BY DATE			
VERTICAL DIMENSIONS		BY DATE			
TOLERANCES ARE		BY DATE			
MATERIAL		BY DATE			
FINISH		BY DATE			
NEXT LIST		BY DATE			
APPLICATION		BY DATE			
USED ON		BY DATE			
DO NOT SCALE DRAWINGS		BY DATE			
TITLE:		2018 Field Layout			
and Marking					
SIZE DWG. NO.		B FE-00041			
SCALE: 1/2"=1'-0"		SHEET 3 OF 4			

CENTER STATION, LEFT SWITCH

Drive forward (70 m) (R. Potatoes)

Turn Left 90° (IMV)

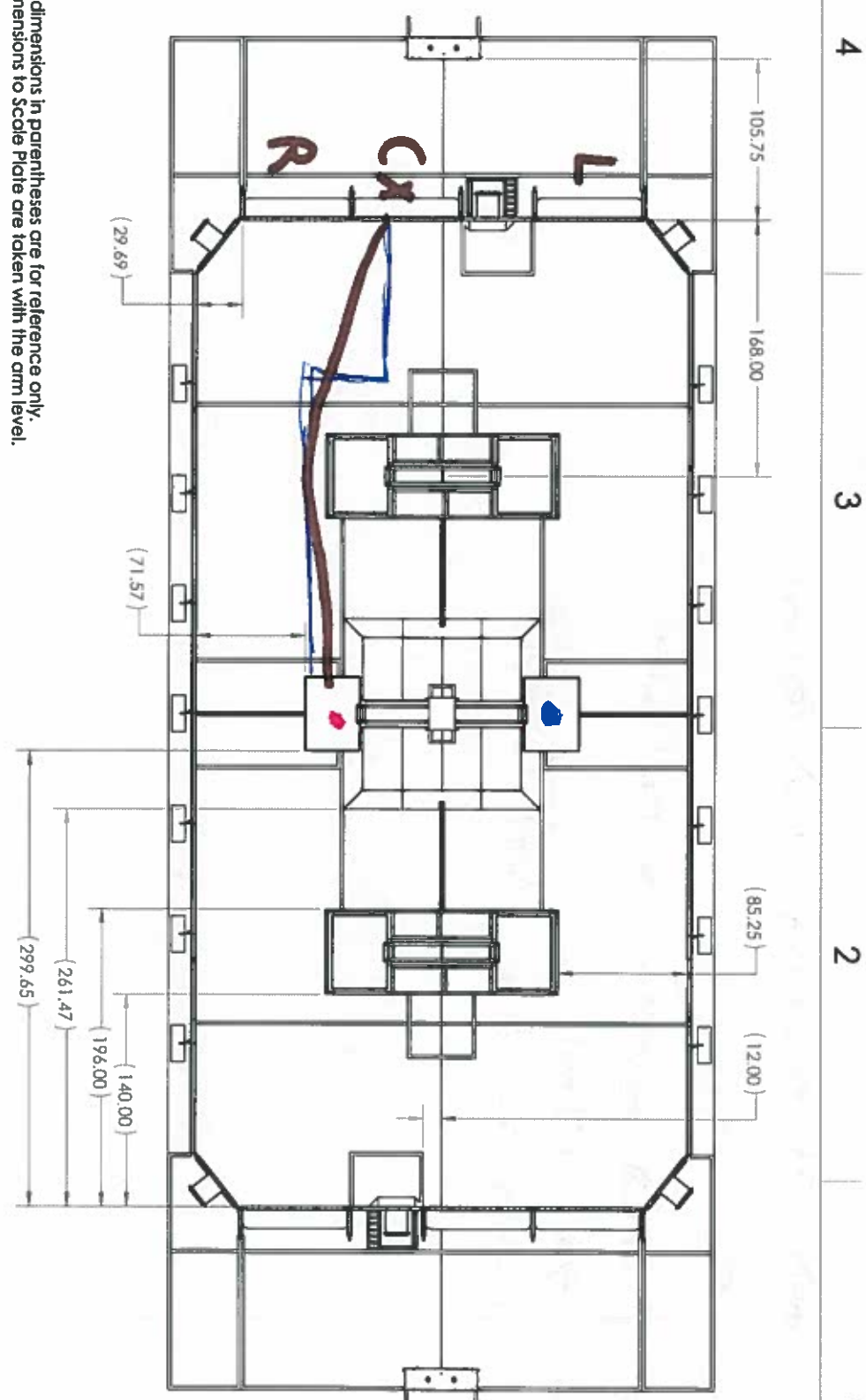
Drive forward (100 in) (Potatoes)

Turn Right (90°) (IMV)

Drive forward (70 in) (V. Hogsare)



Imu/ Rotaplas/ Ultrac



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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES FRACTIONAL 1/16 ANGULAR 1/4° 89° 31' TWO PLACE DECIMAL 1.01 THREE PLACE DECIMAL 1.001	DRAWN CHECKED DESIGNED MFG APPR. D.A. COMMENTS	NAME DATE	DATE
APPROVED FOR CONSTRUCTION TOLERANCE PER MATERIAL	DATE	DATE	DATE
DO NOT SCALE DRAWING	USED ON	NOT LAST	APPLICATION
SCALE: 1/70 WEIGHT	SIZE: DWG. NO. B FE-000041	REV	SHEET 3 OF 4

2018 Field Layout
and Marking

PROTOT
ROBOTICS
COMPETITION
J.S. SULLIVANS
FIRST ROBOTICS

CENTER STATION, RIGHT SCALE

MOVE FORWARD TO SWITCH (142) (ROTATION)

TURN 90° (IMU)

MOVE FORWARD TO END OF SWITCH (ROTATION)

TURN -90° (IMU)

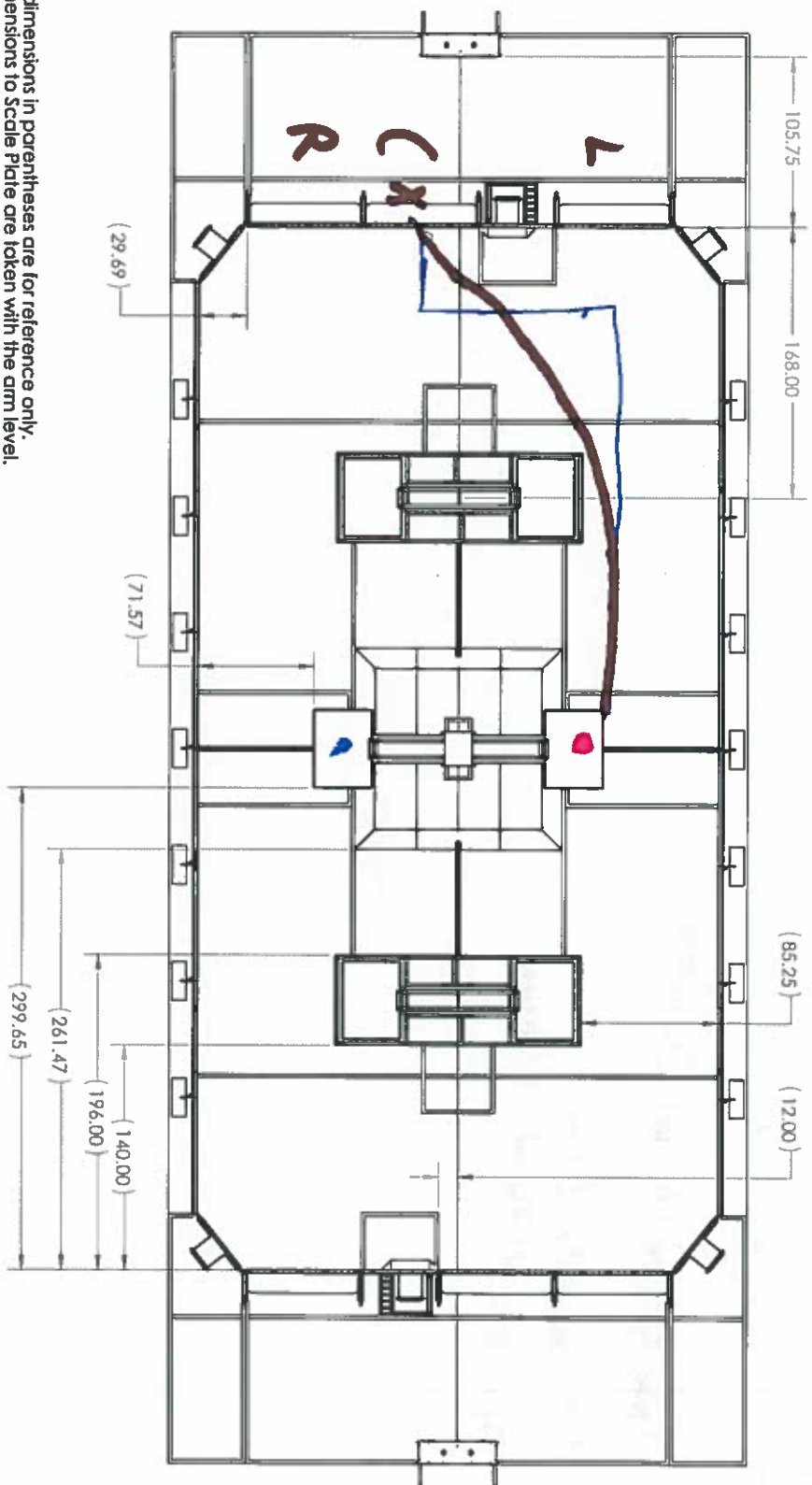
MOVE FORWARD TO SCALE (104) (ULTRASOUND)



The floor plan shows a rectangular dining area with a central service counter and two side counters. Handwritten annotations include 'L' (left), 'C' (center), and 'R' (right) in brown ink. A blue line traces a path from the top left towards the center. A red dot is placed on the right side counter, and a blue dot is on the left side counter. Dimensions are provided in parentheses for various sections: (29.69) for the top left corner, (71.57) for the top section, (85.25) for the right side counter, (12.00) for the right side wall, (140.00) for the bottom section, (196.00) for the bottom wall, (261.47) for the bottom section, and (299.65) for the bottom wall. The overall dimensions are 105.75 by 168.00.

Notes:

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[illegible]

CENTER STATIONS, LEFT SCALE

Drive Forward (70 in) (Rotations)

Turn Left (90°) (1 in)

Drive Forward (100 in) (Rotations)

Turn Right (90°) (1 in)

Drive Forward (250 in) (Rotations)



Architectural floor plan of a large hall, oriented vertically. The plan shows a central area with a large rectangular table and chairs, and two smaller rectangular tables with chairs at the top and bottom. The dimensions are indicated on the right side: 105.75, 168.00, (85.25), and (12.00). The plan includes various furniture items such as tables, chairs, and a central table. The layout is symmetrical, with a central aisle and side aisles. The plan is labeled with '4' at the top, '3' on the right, '2' at the bottom, and '1' at the bottom right. The plan is drawn in black lines on a white background.

Architectural floor plan of a building. The plan shows a central corridor and several rooms. Dimensions are indicated in meters (m) with parentheses. The overall width of the building is 299.65 m. The overall depth is 261.47 m. The central corridor is 196.00 m long. The width of the central corridor is 140.00 m. The width of the side corridor is 12.00 m. The width of the side corridor is 85.25 m. The width of the side corridor is 12.00 m. The width of the side corridor is 85.25 m.

[illegible]

CENTER STATION, RIGHT SWITCH

MOVE FORWARD TO SWITCH (1110) (VZBN)



4
3
2
1



➤

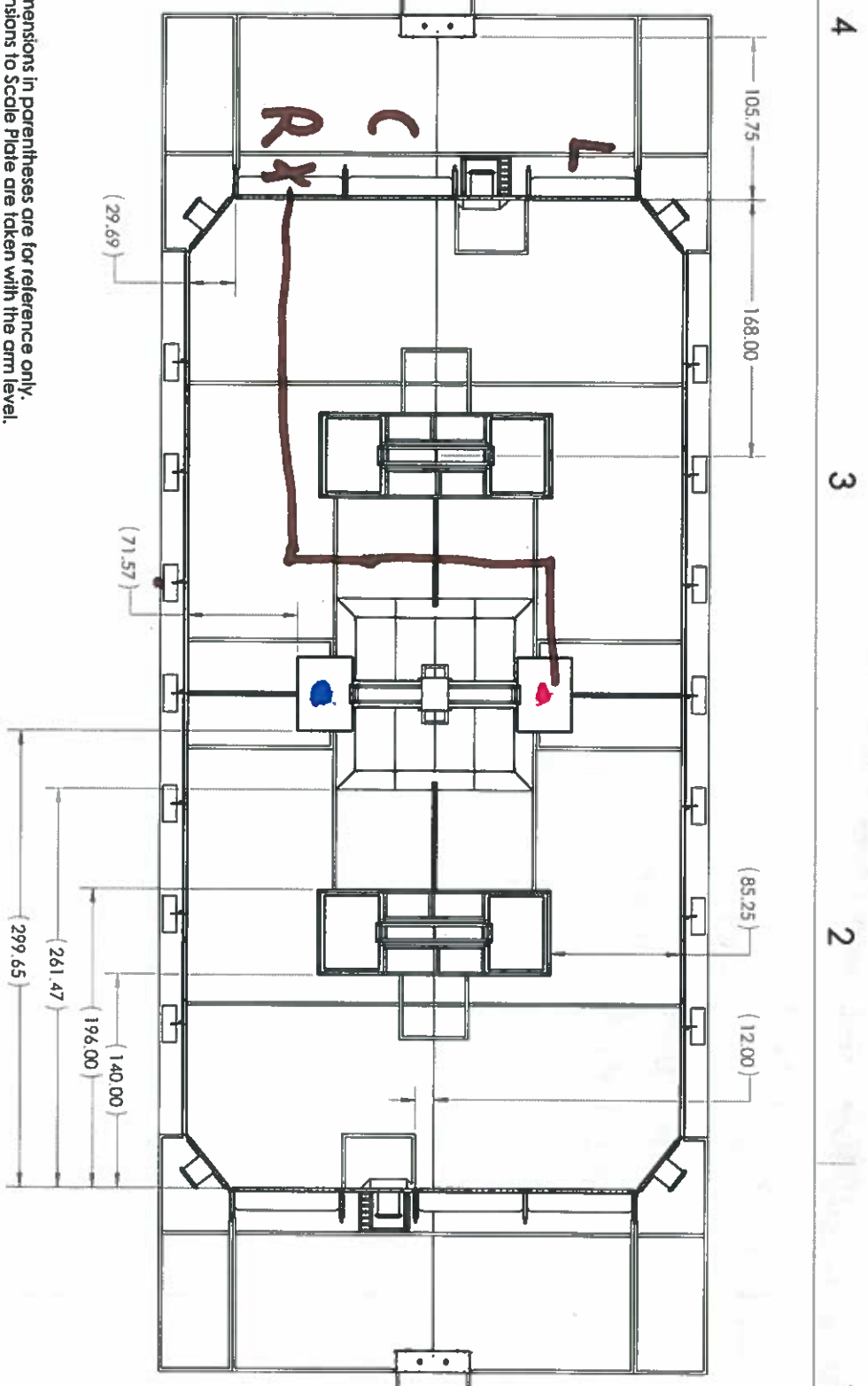
4 3 2 1

Right Station / Right Scale

move Forward to Scale 300 in (114300)

Turn Right? ~~800~~ (114300) (114300?)

Robotics / IMU / Ultrasonic



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DRAWING ARE IN INCHES		DRAWN		DATE	
FLOOR PLAN		CHECKED		DATE	
ANGULAR MACHINE 30° 31°		BIG APP.		DATE	
TWO PLACE BECHAM 120°		BIG APP.		DATE	
THREE PLACE BECHAM 120°		BIG APP.		DATE	
REFLECTING GEOMETRIC		D.A.		DATE	
TOLERANCE 1/8"		COMMENTS:		DATE	
MATERIAL		DATE		DATE	
NEXT ASST		USED ON		DATE	
APPLICATION		DO NOT SCALE DRAWING		DATE	
TITLE:		FIRST ROBOTICS COMPETITION		DATE	
2018 Field Layout and Working		REV		DATE	
SIZE DWG. NO.		B FE-00041		DATE	
SCALE: 1/2"=1'-0"		SHEET 3 OF 4		DATE	

Robot Station, Left Scale

Move Forward ~~(20cm)~~ Port Switch (20cm) (Robot has)

Turn Left 90° (\rightarrow m)

Move Forward (15cm) (Rotations)

Turn Right 90° (\rightarrow m) (Ultrasonic)

Move to scale (71 in)



Architectural floor plan of a large hall with dimensions and handwritten annotations. The plan shows a rectangular room with a central aisle and side aisles. Dimensions are provided in parentheses for various sections. Handwritten annotations include 'L', 'C', 'R', and 'X' in the top left corner, and a blue line with arrows pointing towards the center of the room.

Dimensions (in parentheses):

- Top left: (29.69)
- Top right: (71.57)
- Bottom left: (261.47), (196.00), (140.00)
- Bottom right: (85.25), (12.00)

Handwritten annotations:

- 'L', 'C', 'R' in the top left corner.
- 'X' in the top left corner.
- Blue line with arrows pointing towards the center of the room.

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[illegible]

Right Station, Right Switch

~~Right Station~~

Move forward to switch (168 in) (C. U. 1229000)

Deposit cube



4
3
2
1



- A

4 _____ 3 _____ 2 _____ 1 _____

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Run + Station, Left Switch

Move forward post switch (~~156m~~) (200m) (Rotations)

Turn 90° Left (1m)

Drive to switch (156m) (Rotations)

Turn 90° Left (1m)


Drive to switch (ultrasonic)



4 3 2 1



A

 FIRST ROBOTICS COMPETITION		25 SOLUTIONS <small>Make Your Vision Real</small>	
TITLE: <h1>2018 Field Layout and Marking</h1>		DATE 	
NAME 		DESIGNED BY DAWSON A.E. NICHOLS RALPH COLLINS ANJULIE MACHIST TWO PLAYS BECAL THREE PLAYS BECAL 1201 O.A. COMMENTS:	
SIZE DWG. NO. B FE-00041		REVISIONS REVISION DATE BY APPROVED BY:	
SCALE: 1/20"=1'-0"		SHEET 3 OF 4	

SIZE	DWG. NO.	REV
B	FE-00041	
SCALE: 1/70WEIGHT:	SHEET 3 OF	

SIZE	DWG. NO.	REV
B	FE-00041	
SCALE: 1/70WEIGHT:	SHEET 3 OF	

LEFT STATION, LEFT SWITCH Vision

MOVE FORWARD TO SWITCH (168) (VISION)
Turn 90° (CLM)



4
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1



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4 3 2 1

LEFT STATION RIGHT SWATH

Move forward past switch (196) (Rotations)

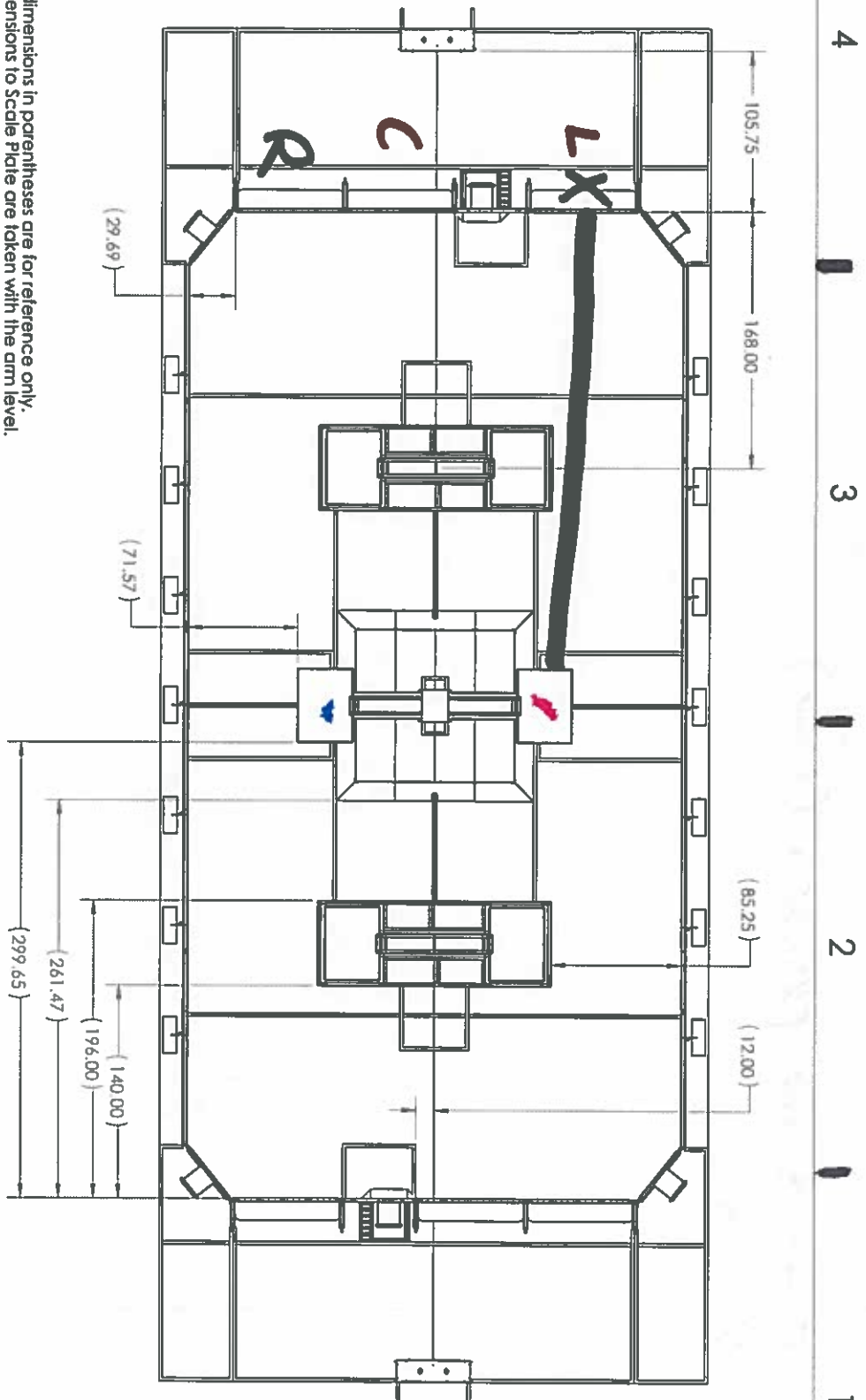
Turn 90° (IMU)

Move forward to end of scale (155) (Rotations)

Turn -90° (IMU)

Move forward to scale (104) (~~103~~ - ultrasonic)

Inv/Robotics



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UNLESS OTHERWISE SPECIFIED:			
DIMENSIONS ARE IN INCHES	DRAWN	NAME	DATE
FRONT ROBOTICS COMPETITION	CHECKED		
2018 Field Layout and Marking	DESIGNED		
ANGULAR MATCH 1/16	DESIGNED		
TWO PLACE DECIMAL (2.0)	DESIGNED		
THREE PLACE DECIMAL (2.00)	DESIGNED		
INTERIOR DIMENSIONS	DESIGNED		
TOLERANCING ARE:	DESIGNED		
MATERIAL	DESIGNED		
FINISH	DESIGNED		
NOT LIST	DESIGNED		
USED ON	DESIGNED		
APPLICATION	DESIGNED		
DO NOT SCALE DRAWING	DESIGNED		
SIZE: DWG. NO. B FE-00041	REV		
SCALE: 1/70 WEIGHT:			
SHEET 3 OF 4			

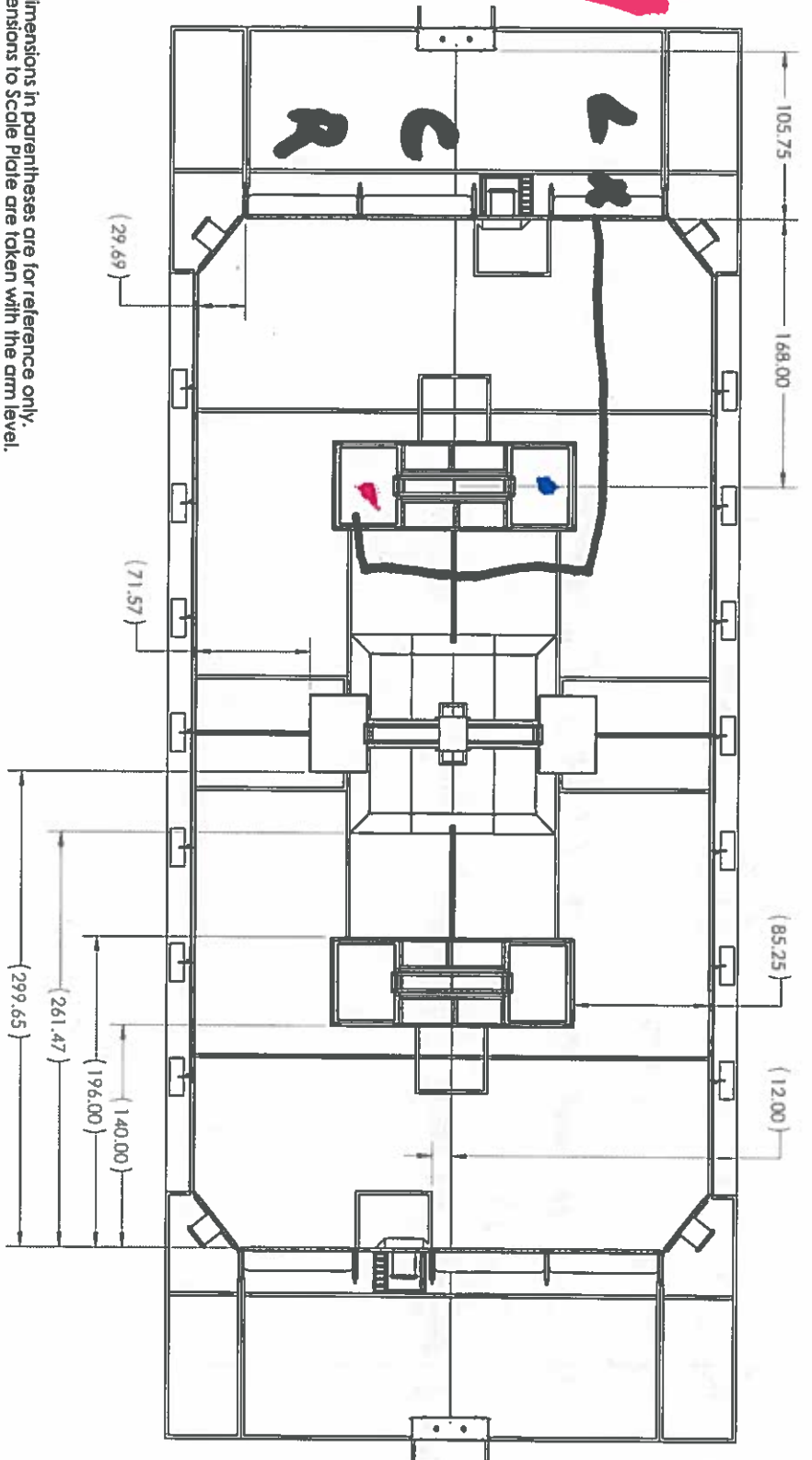
LEFT STATION, LEFT SCALE

MOVE FORWARD TO SCALE (299.65) (ROTATIONS)

Turn 90° (CW)

XX

Robotics / Oghms / LPS



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UNLESS OTHERWISE SPECIFIED:		DATE	NAME
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ANGULAR MACHINE 21"	DWG. APPR.		
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THREE PLACE DECIMAL, 5.01			
INTERIOR GEOMETRIC			
TOLERANCE PER			
MATERIAL			
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APPLICATION			
TITLE:		DATE	NAME
2018 Field Layout			
and Marking			
SIZE DWG. NO.		REV	
B FE-00041			
SCALE: 1/20 WEIGHT:		SHEET 3 OF 4	

FIRST ROBOTICS COMPETITION
J5 SOLIDWORKS
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LEFT STATION, RIGHT SWITCH

Move forward past switch (196) (count rotations)

Turn 90° ~~to~~ (IMU)

Move forward to end of switch (155) (rotations)

Turn 90° (IMU)

Move forward ~~to~~ distance (ultrasonic distance)

