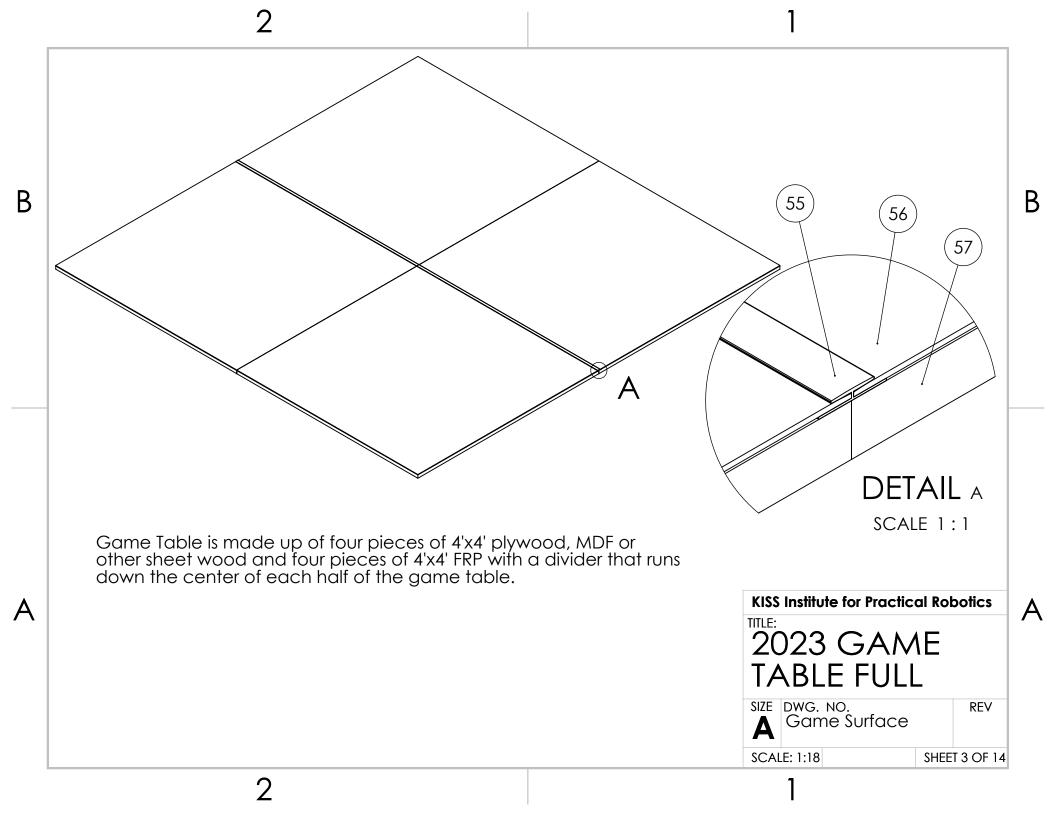


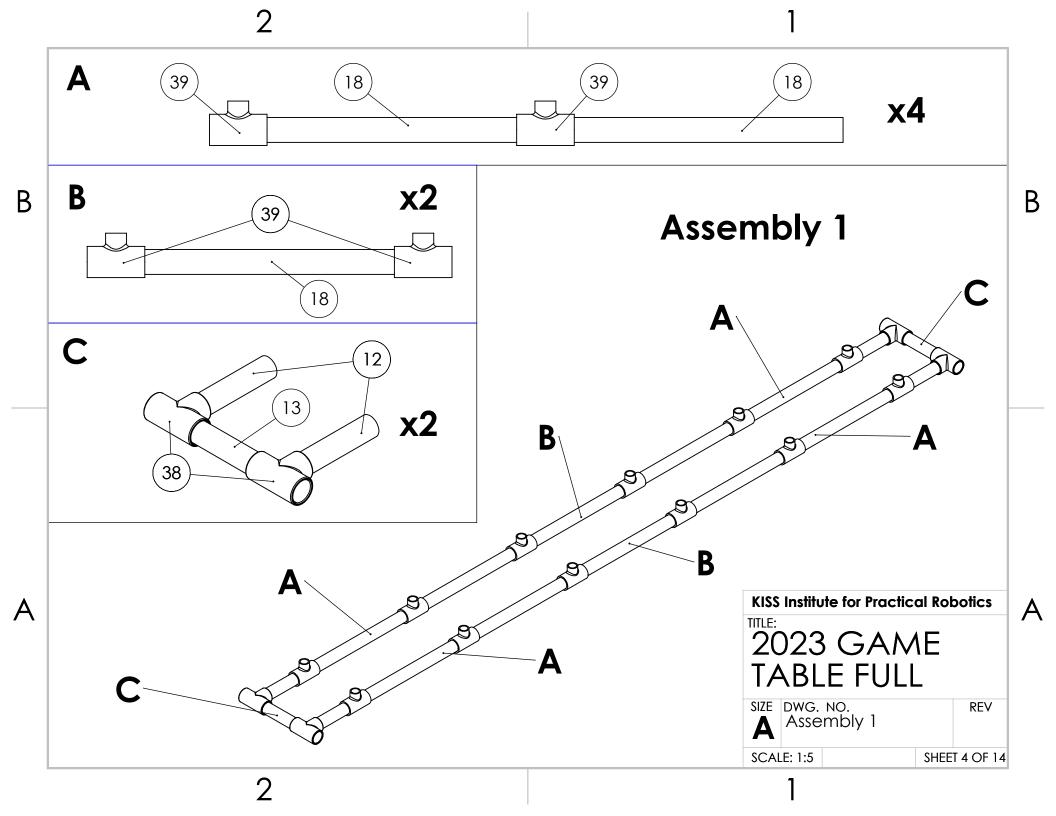
2023 Botball Game Table Build

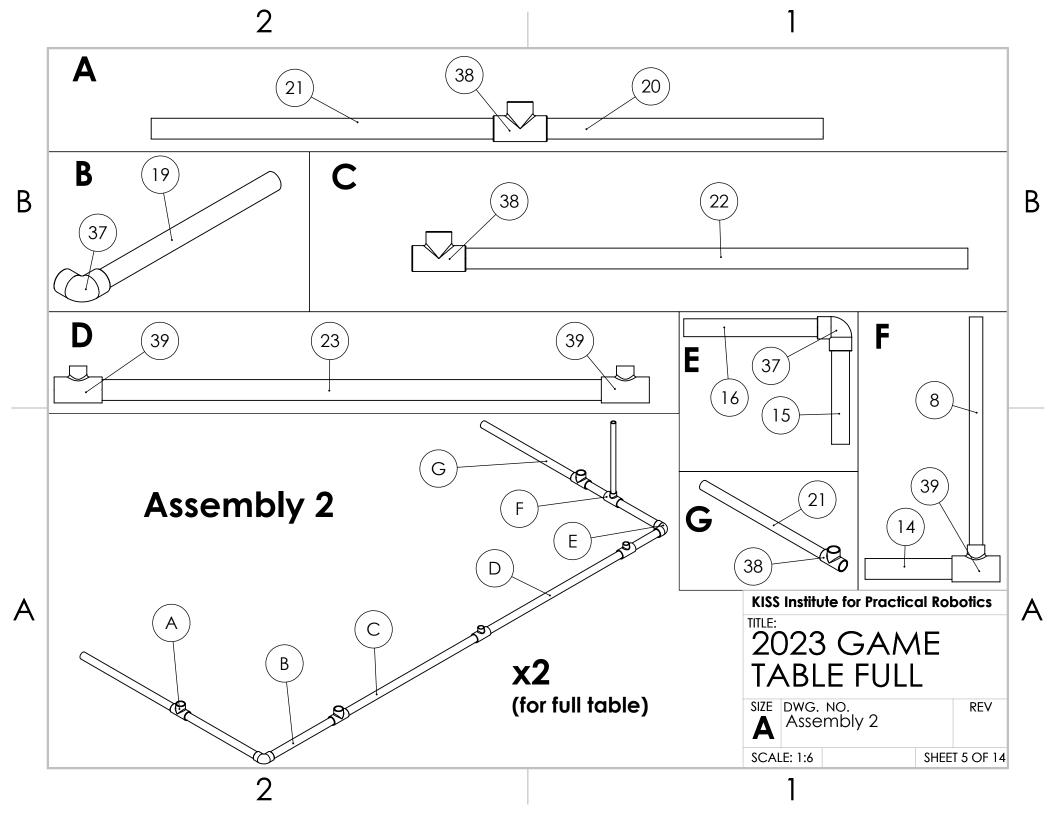
Notes for teams:

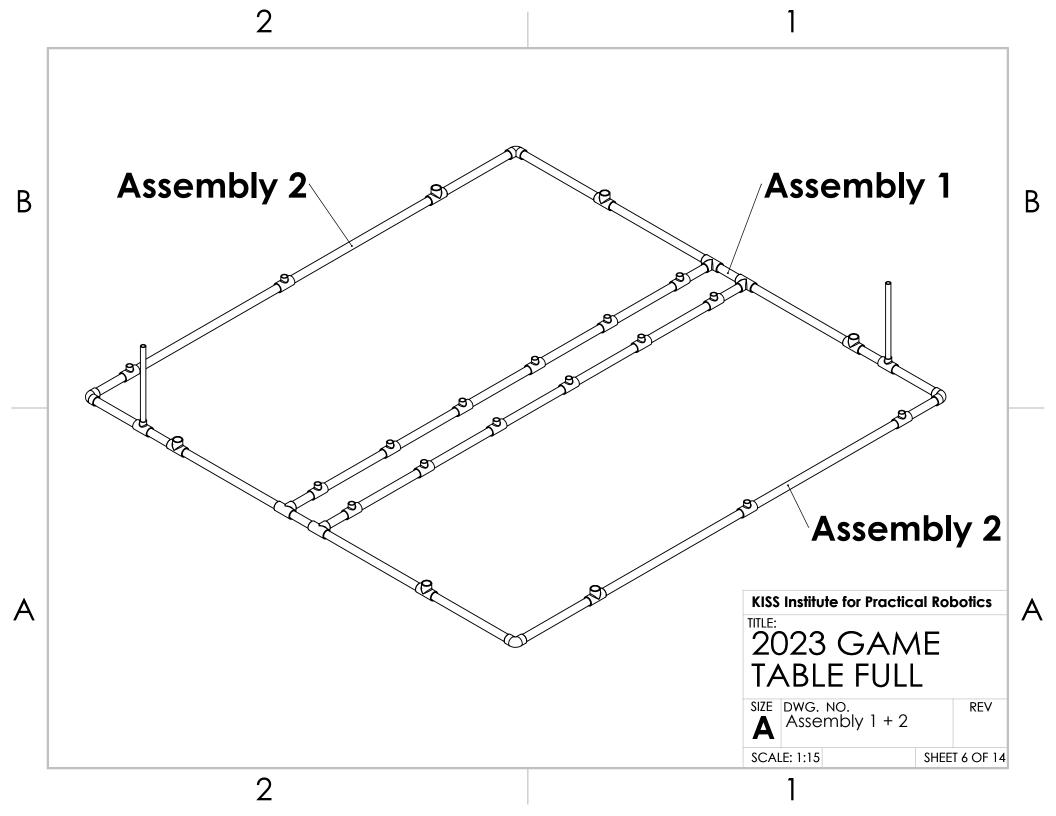
- Exlcuding the 3" coupler (which is Charlotte brand), all PVC connectors are LASCO brand. This is necessary to building the table correctly without making any adjustments since most brands have different internal dimensions for their connectors.
- There are some optional builds in the game this year so be sure to read through entire document before buying
- If you are looking for specific parts, you can use the link to this Lowe's list to find the correct parts: Link to List

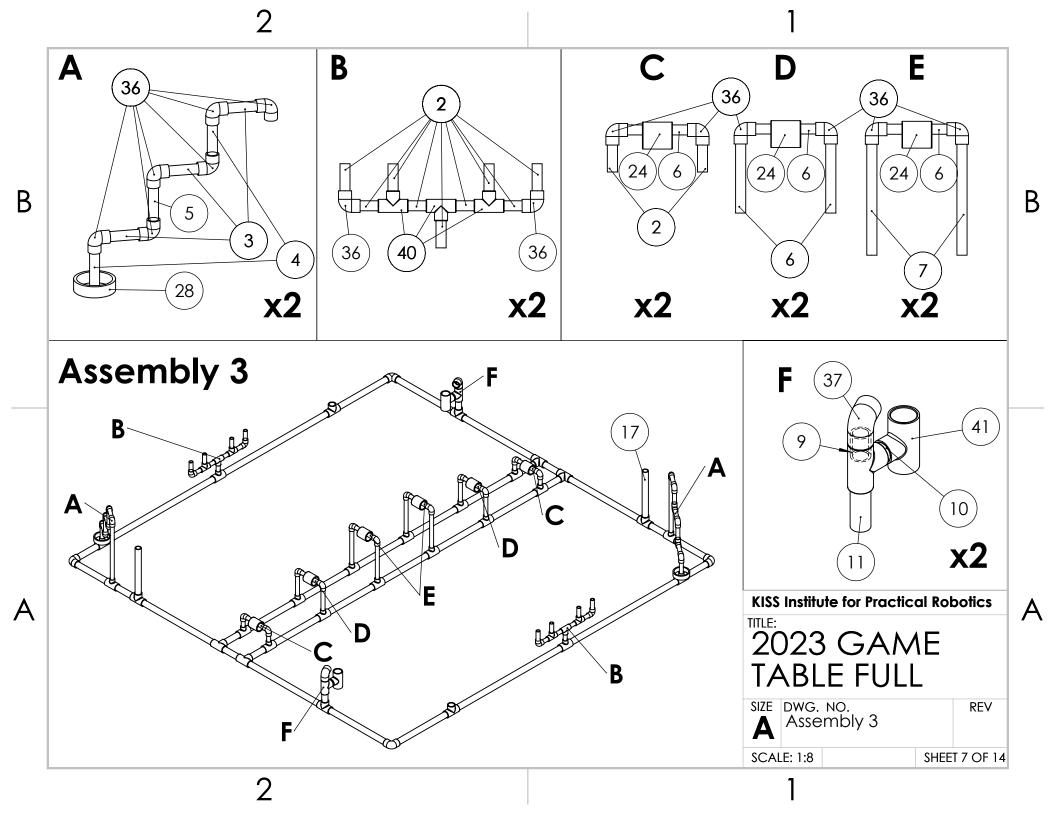
EM NO.	PART NUMBER	DESCRIPTION	QTY.
	LED Light Strip	Optional part - width: <1cm	2
	3 inch - 1/2" PVC	0.5" ID SCH 40	22
	4 inch - 1/2" PVC	0.5" ID SCH 40	6
	4.25 inch - 1/2" PVC	0.5" ID SCH 40	4
	4.5 inch - 1/2" PVC	0.5" ID SCH 40	2
	6.5 inch - 1/2" PVC	0.5" ID SCH 40	10
	10 inch - 1/2" PVC	0.5" ID SCH 40	4
	15 inch - 1/2" PVC	0.5" ID SCH 40	2
	1.75 inch pvc	1" ID SCH 40	2
	2.25 inch pvc	1" ID SCH 40	2
	<u> </u>		
	4.000 inch PVC	1" ID SCH 40	2
	6.000 inch PVC	1" ID SCH 40	4
	6.125 inch pvc	1" ID SCH 40	2
	6.375 inch pvc	1" ID SCH 40	2
	7.75 inch pvc	1" ID SCH 40	2
	10.75 inch pvc	1" ID SCH 40	2
	12.500 inch PVC	1" ID SCH 40	2
	15 inch pvc	1" ID SCH 40	10
19	16.25 inch pvc	1" ID SCH 40	2
20	18.25 inch pvc	1" ID SCH 40	2
21	22.375 inch pvc	1" ID SCH 40	4
22	32.375 inch pvc	1" ID SCH 40	2
23	33.125 inch pvc	1" ID SCH 40	2
24 I	PVC Coupler	1.5" ID SCH 40	6
25	16 inch Clear Tube	1.65" Diam. Fluorescent Light Tube	2
26	6" Board	2 x 6 Lumber	4
27	6" Board - Notched	2 x 6 Lumber	1
28	1.000 inch - 3" ID PVC	3" ID SCH 40 Cellular Core PVC-DWV Non-Pressure	2
	6.500 inch - 3" ID PVC	3" ID SCH 40 Cellular Core PVC-DWV Non-Pressure	3
	Black duct tape	3M Black Duct Tape - Model #3920-BK	10
	Gray duct tape	3M Gray Duct Tape - Model #2960	8
	Black Servo Horn Screw	Black screw that comes in servo horn bag	2
	SCREW-832-0500	Botball Kit - Medium Screw	4
	Servo	Botball Servo	2
	Light Switch Box	CANTEX 1-Gang Gray PVC Shallow Electrical Box	2
	0.5" Elbow Connector	Connector SCH 40	28
	1" Elbow Connector		
		Connector SCH 40	6
	1"T Connector	Connector SCH 40	12
	1" x 0.5" T Connector	Connector SCH 40	18
	1/2" T Connector	Connector SCH 40	6
	1.25" x 1" T Connector	Connector SCH 40	2
	3" PVC Coupler	Connector SCH 40 Diam: 4", Height: 3.2"	2
	6" x 5.625" Sheet	Corrugated Plastic	5
	6" x 9" Sheet	Corrugated Plastic	8
	18"x6" Sheet	Corrugated Plastic	6
46	18"x6" Sheet with Hole	Corrugated Plastic	4
47	18"x6" w/ Hole - Notched	Corrugated Plastic	2
48 I	Light Switch Cover	Eaton 1-Gang Standard Wall Plate - Ivory	2
49 I	Light Switch	Eaton 15-Amp Single-Pole Toggle - Ivory	2
50 I	Flat Head 0.5 in	Flat Head 0.5 in - Comes with cover	4
51	Light Switch Screw	Flat Head Screw M5-020 - Comes with switch	4
52 I	Large Narrow Servo Horn	Large narrow servo horn with one end cut off	2
	NUT-832-KEPS	Standard Botball black KEPS nut	4
53 I			-
	Servo Bracket	Standard size servo bracket	2
54	Servo Bracket FRP Divider 48" long	Standard size servo bracket White - cut from one 8' long part	2
54 S			

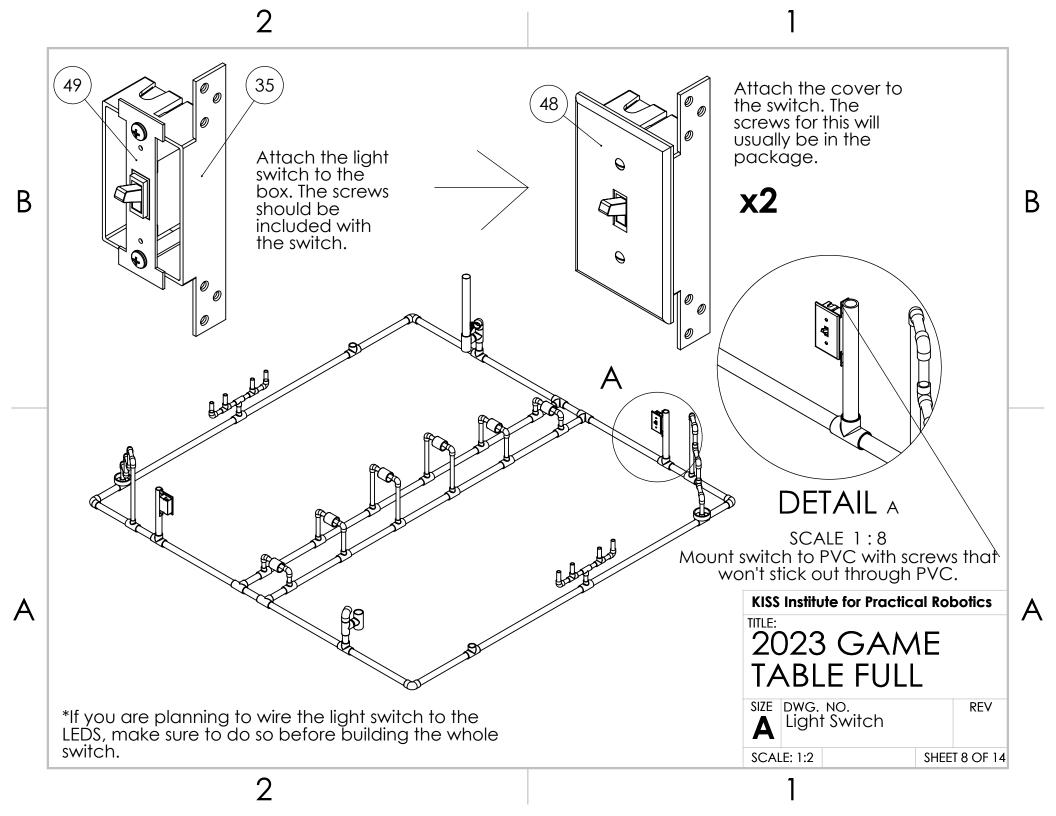


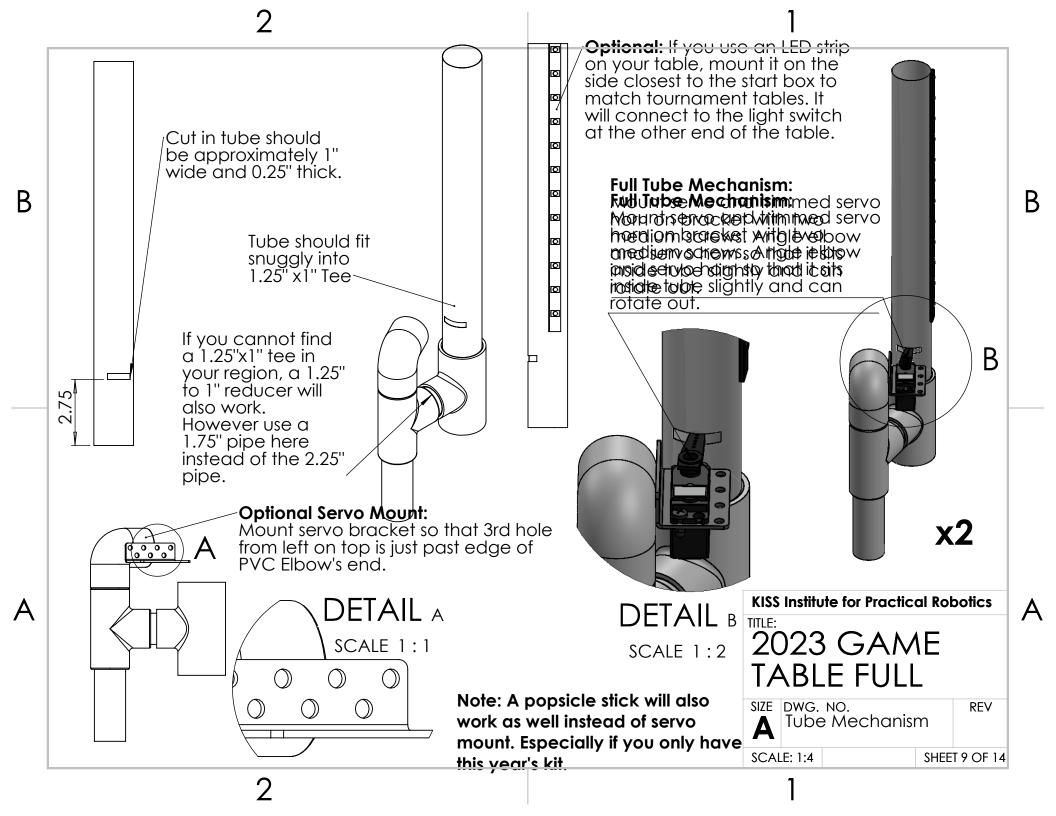


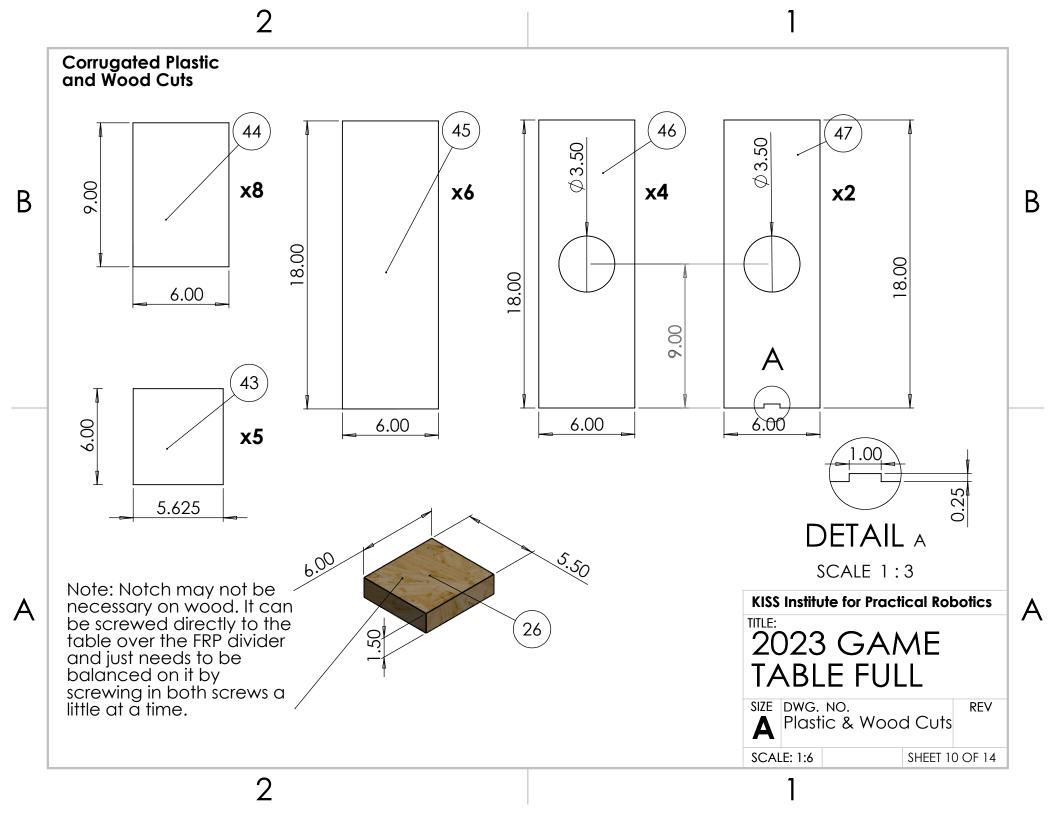












18" Building 18" Building 9" Building **Notched** 43 47 43 44 45 В 45 29 Can be secured with hot glue or tape. **x2**

All buildings have a 2x6 at their base that can be screwed into the table first and the corrugated plastic placed around it. This view shows the inside of the building with one face hidden.

43

00.

29

46

26

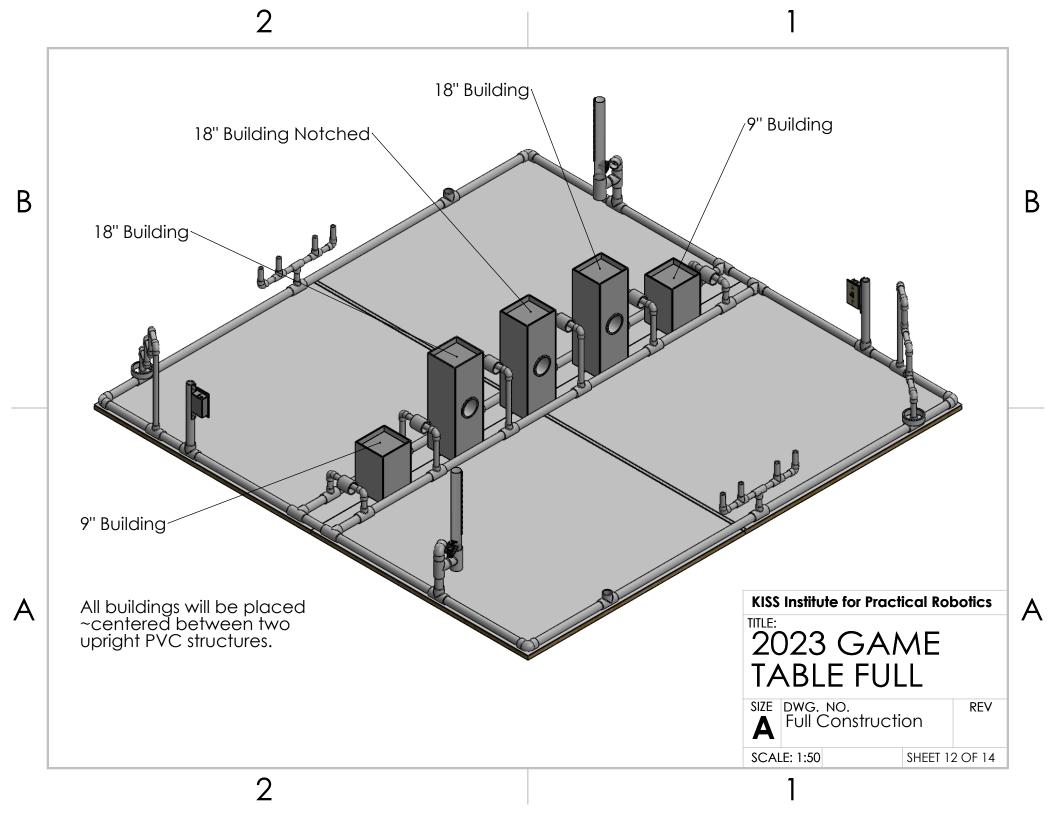
x1Note how edges DETAIL A meet up SCALE 1:1

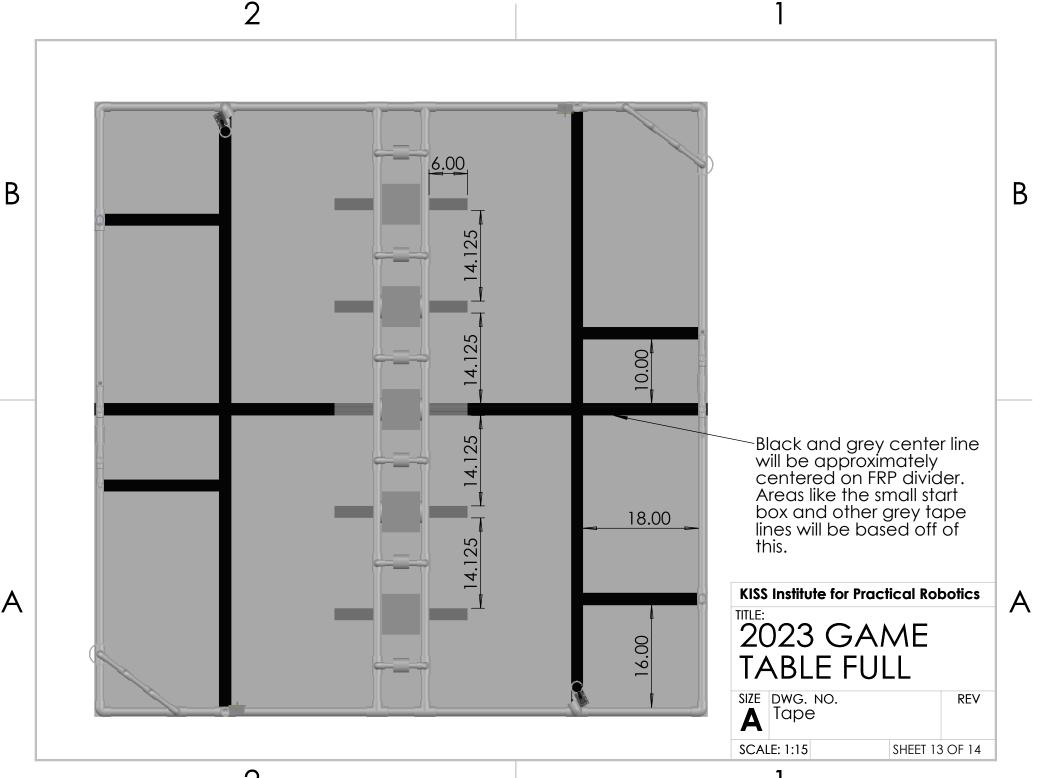
KISS Institute for Practical Robotics 2023 **GAME** TABLE FULL SIZE DWG. NO. REV Buildings

SHEET 11 OF 14

x2

SCALE: 1:4





2

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Centered Starts as flush as on pipe **Centered** on line possible with . corner В В Botgal and S cubes are centered on top of building 8.00 Green noodles may start on any of the four posts here. 8.00 **Card Positions** May be Centered 8.00 in pipe placed anywhere within this 3.00 8.00 zone The bottom of a card should be approximately two inches from the surface 8.00 **KISS Institute for Practical Robotics** 8.00 2023 GAME 8.00 **TABLE FULL** SIZE DWG. NO. REV A Game Pieces SCALE: 1:15

SHEET 14 OF 14