15-foot Gandelow Plans - Information about the contents of this free PDF

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Page 3: The dimensions of the 15-foot gandelow in a 'Lines Table', sometimes called a 'Table of Offsets'.

Page 4: Diagrams showing the shapes of the planks (strakes) as they would be when cut out and laid flat.

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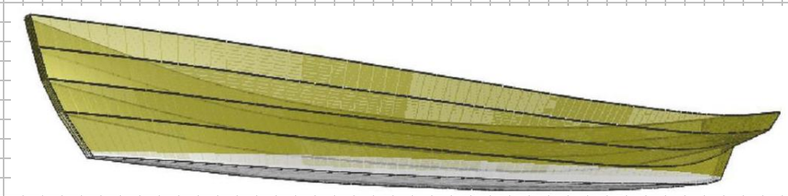
Page 14: Top-of-plank dimensions on the transom and stern post.

Page 15: Dimensions of the parts of the stem and stern post and of the transom.

Page 16: Angles and offsets of the rolling bevel on the first butterfly plank (B1).



Please note that:

- This PDF is intended to be printed out A3 size (US Ledger, 11 x 16.5 inches).
- All the dimensions are in decimal inches. A conversion table to fractions of inches is below.
- The photographs of the frames / molds are taken from the stern of the boat (looking forward) and show their rear face. The frames should be fixed so they are vertical (at 90 degrees to the Datum line - *not* at right angle to the slope of the floor).

DISCLAIMER: These plans and dimensions are provided only as a guide. They are intended to be used by experienced boatbuilders - who will need to scale up the molds / frames to full size using the measurements provided.

Abbreviations used: B-1, B-2 = Butterfly planks one and two; CL = Centreline; Gar - Garboard; FP = Front Perpendicular; HBr = Half-breadth; SPs = Station Positions; ToP = Top of plank; TP = Transom perpendicular; VW = Visible width.

Imperial Decimal Inches and Fractions to Metric Conversion Table

0.06" = 1/16" (0.15cm)	0.31" = 5/16" (0.8cm)	0.56" = 9/16" (1.4cm)	0.81" = 13/16" (2.05cm)
0.13" = 1/8" (0.3cm)	0.38" = 3/8" (0.95cm)	0.63" = 5/8" (1.6cm)	0.88" = 7/8" (2.2cm)
0.19" = 3/16" (0.45cm)	0.44" = 7/16" (1.1cm)	0.69" = 11/16" (1.7cm)	0.94" = 15/16" (2.4cm)
0.25" = ¼" (0.6cm)	0.50" = ½" (1.25cm)	0.75" = ¾" (1.9cm)	1.00" = 1" (2.55cm)

Plans with Imperial and Metric measurements and detailed explanations are to be published in early 2018. They will be sold through the author's website - see www.beautement.com/books.htm.

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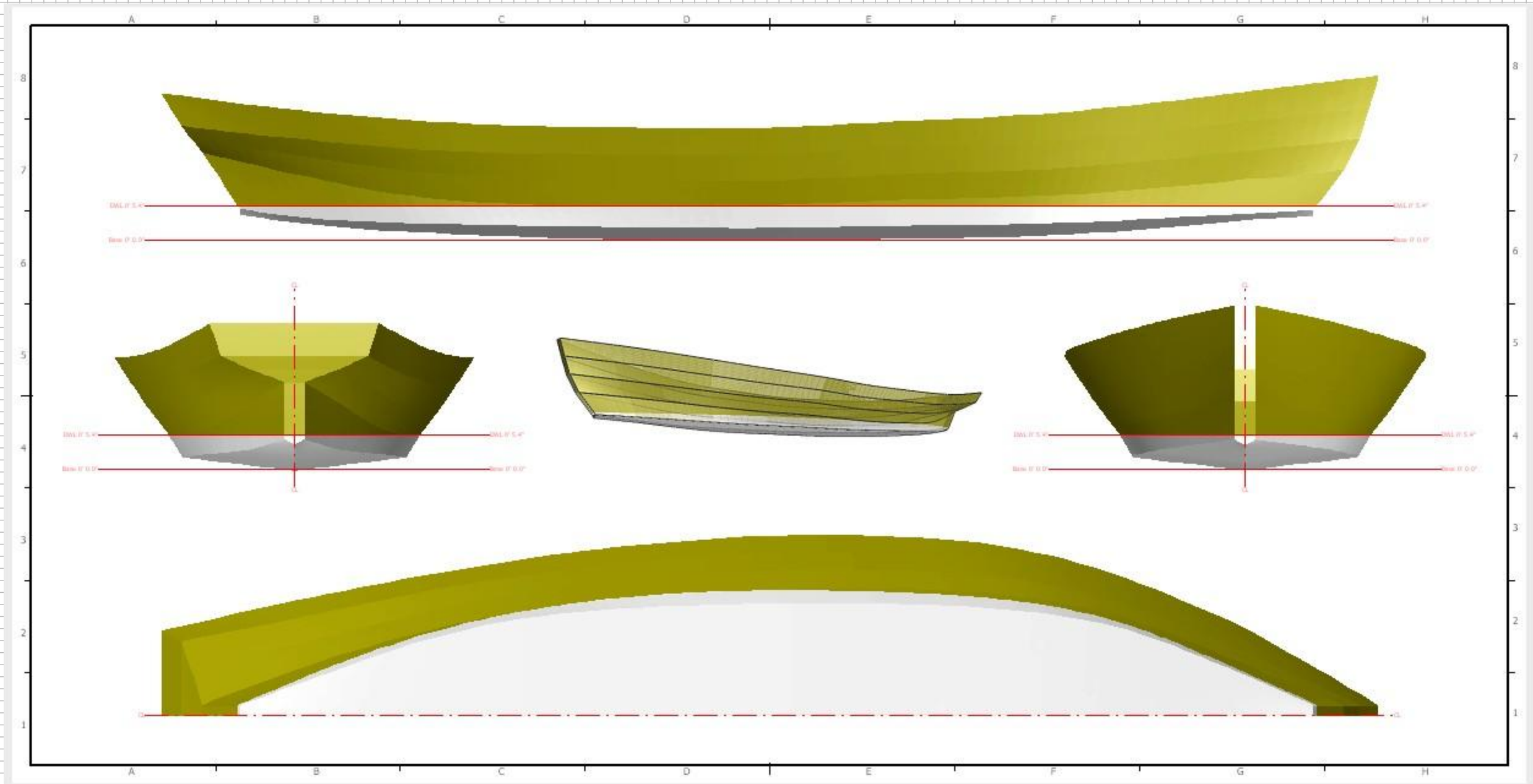
15-foot Gandelow - Profiles and 3D view



These views of the 15-foot gandelow were generated using the 'Delftship' software and the dimension data from the 'Lines Table' page of this document.

This model gives a *general impression* of the shape and appearance of the boat.

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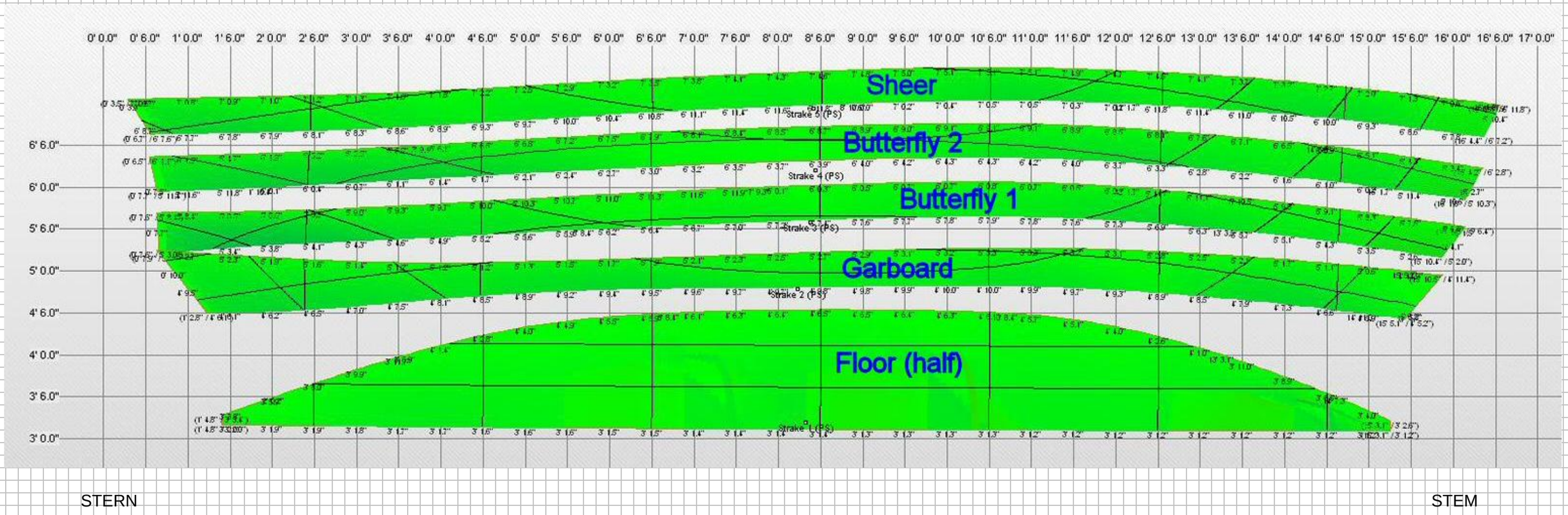
Frames (molds) and Top of Plank Dimensions for 15-foot gandelow [© 2017Mar15 by P. Beautement]

Stations (18" apart)	SPs back from FP	Half and Full breadths to *Inside of Planks*, plus Top-of-Plank to Floor (frame at *90° to DATUM* at C/L) - decimal inches					Rocker data, actuals, datum at CL to ...		Angle data (degrees)		
FP	0	Floor width, actual	ToP Gar, actual	ToP B-1, actual	ToP B-2, actual	Sheer, actual	Floor underside	Floor top (+0.81)	Sheer to frame (plan)	Chine bevel angle	Actual LOA, cutwater at head to rear of stern post top of transom = 190" / 15' 10"
ToPs on Stem (curved) at back rabbet	-	From Datum >	1.50 / 3.00 / 10.75	1.50 / 3.00 / 15.69	1.50 / 3.00 / 20.50	1.50 / 3.00 / 25.38	From datum / concrete	From datum / concrete	33	-	Top of Stem Head is 27.38" above Datum. KEY: B-1, -2 = Butterfly 1 / 2, CL = Centreline, FP = Front Perpendiclar, HBr = Half-breadth, HT = height, RL = Rabbet line, SPs = Station Positions, ToP = Top of plank, TP = Transom perpendicular, VW = Vis width.
At Nose of Floor (NoF) angle up 5° from Datum	12.75	1.50 / 3.00 / 0.06	HB / FB / ToP	HB / FB / ToP	HB / FB / ToP	8.38 / 16.76 / 19.06	3.88 / 24.75	4.69 / 25.56	-	73	
1	22.00	5.75 / 11.50 / 0.25	7.81 / 15.63 / 5.50	9.63 / 19.25 / 9.88	11.44 / 22.88 / 14.44	12.88 / 25.75 / 18.88	3.13 / 24.00	3.94 / 24.81	25	70	The Sheer to Frame angles are in plan view and reflect the curve of the sheer when viewed from above. My strongback Datum, ie the lowest part of underside of floor, is 20.88" (53cm) above the concrete surface of the workshop. Notes: The boat's floor is made from 0.81" (20mm) thick planks. Three are 7.5" wide plus two more 5.63" wide planks are used (total width 33.75" before bevelling). In the floor width column, the third number reflects the curve of the floor edge above the top of floor at the centreline (diagram to follow). Side planks are 0.56" (14mm) thick, and are cut from 8" (20cm) wide stock.
2	40.00	11.94 / 23.88 / 0.81	14.38 / 28.75 / 5.38	16.50 / 33.00 / 9.63	18.56 / 37.13 / 14.00	20.56 / 41.13 / 18.31	1.56 / 22.44	2.38 / 23.25	18	65	
3	58.00	15.69 / 31.38 / 1.13	17.88 / 35.75 / 5.31	20.56 / 41.13 / 9.38	23.00 / 46.00 / 13.56	25.06 / 50.13 / 17.69	0.63 / 21.50	1.44 / 22.31	10	57	
4	76.00	16.63 / 33.25 / 1.19	18.94 / 37.88 / 4.94	21.81 / 43.63 / 8.94	24.50 / 49.00 / 12.94	27.06 / 54.13 / 16.94	0.31 / 20.19	1.13 / 22.00	3	54	
5	94.00	16.69 / 33.38 / 1.19	18.81 / 37.63 / 4.75	21.81 / 43.63 / 8.63	24.56 / 49.13 / 12.63	27.19 / 54.38 / 16.56	0.00 / 20.88	0.81 / 21.69	0	53	
6	112.00	16.19 / 32.38 / 1.15	17.94 / 35.88 / 4.31	20.75 / 41.50 / 8.31	23.53 / 47.06 / 12.38	26.06 / 52.13 / 16.38	0.13 / 21.00	0.94 / 21.81	5	55	
7	130.00	14.63 / 29.25 / 1.00	16.06 / 32.13 / 4.25	18.75 / 37.44 / 8.19	21.50 / 43.00 / 12.13	24.00 / 48.00 / 16.25	0.50 / 21.38	1.31 / 22.19	8	62	
8	148.00	10.75 / 21.50 / 0.63	12.44 / 24.88 / 4.81	15.44 / 30.88 / 8.50	18.63 / 37.25 / 12.00	21.06 / 42.13 / 16.25	1.25 / 22.13	2.06 / 22.94	13	68	
9	166.00	5.00 / 10.00 / 0.19	7.25 / 14.50 / 6.44	10.88 / 21.75 / 9.56	14.88 / 29.75 / 12.25	17.63 / 35.25 / 16.50	2.50 / 23.38	3.31 / 24.19	13	69	
At Tail of floor (ToF) angled up 4° from datum	177.00	1.50 / 3.00 / 0.06	Set by transom	Set by transom	Set by transom	15.38 / 30.75 / 17.06	4.00 / 24.88	4.81 / 25.69	-	72	
From TP or from outer rear edge of transom	188.00 (varies)	From Datum >	1.50 / 3.00 / 13.63	6.44 / 12.88 / 15.69	10.81 / 21.63 / 17.75	12.44 / 24.88 / 22.63	-	-	13 (complex)	-	Transom bevels for: standing, sheer, butterfly and stern post rabbet dimensions - see Gandelow Guide (with Plans) for details.
Rear of Stem post	190.00	-	Height, top of stern post above Datum ->			25.13	-	-	-	-	

15-foot Gandelow - 'Exploded' view of the planks / strakes



These 'exploded' views of the planks / strakes of the 15-foot gandelow were generated using the 'Delftship' software and the dimension data from the 'Lines Table'.

They show how the *model thinks the planks might look* after they were cut out and laid flat.

These views give a *general impression* of the shape and appearance of each plank / strake.

Note for more advanced readers: the black curved lines are the waterlines and 'buttock lines' which, with the stations, provide a grid system used in fully detailed plans.

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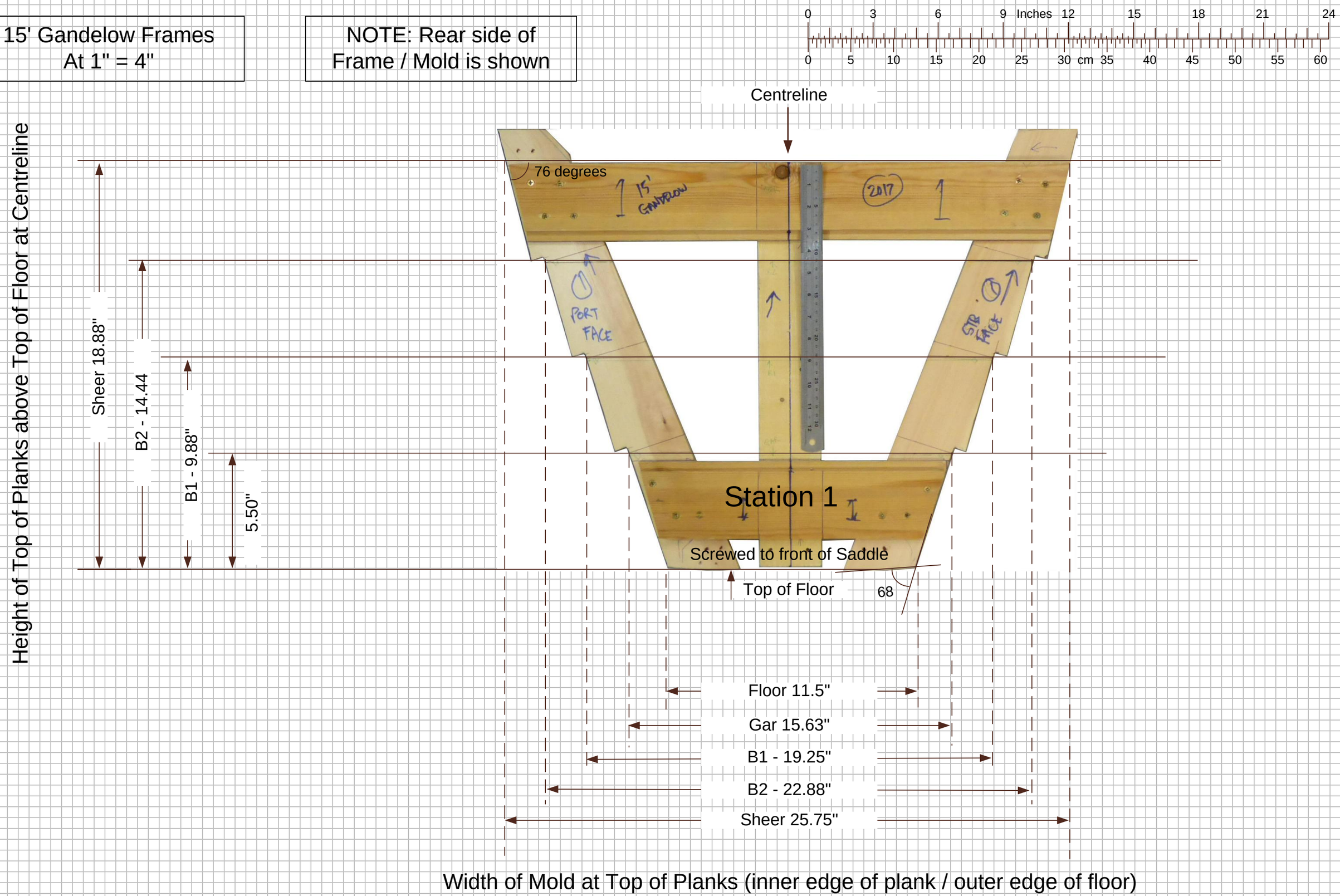
15' Gandelow Frames
At 1" = 4"

NOTE: Rear side of
Frame / Mold is shown



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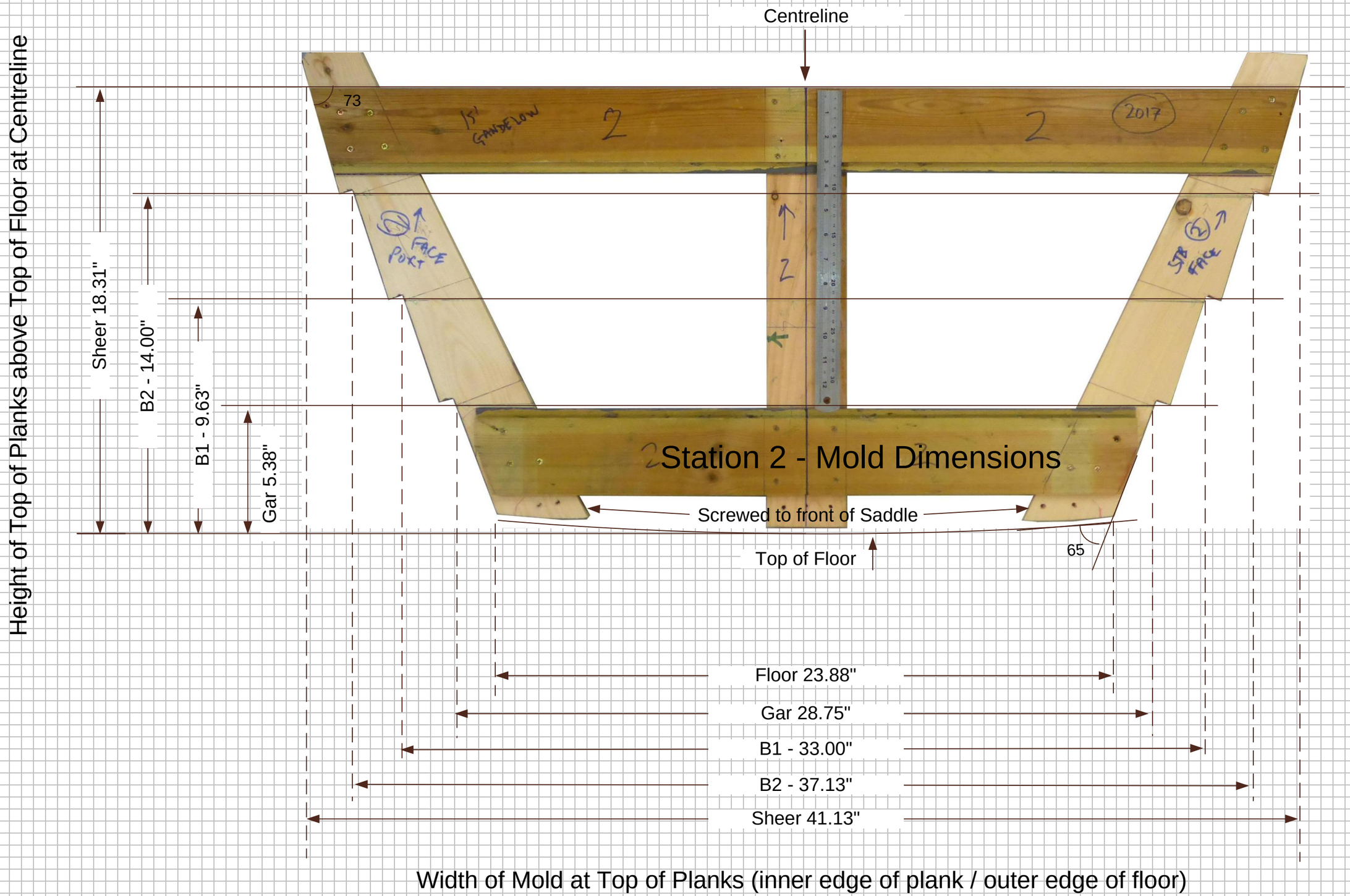

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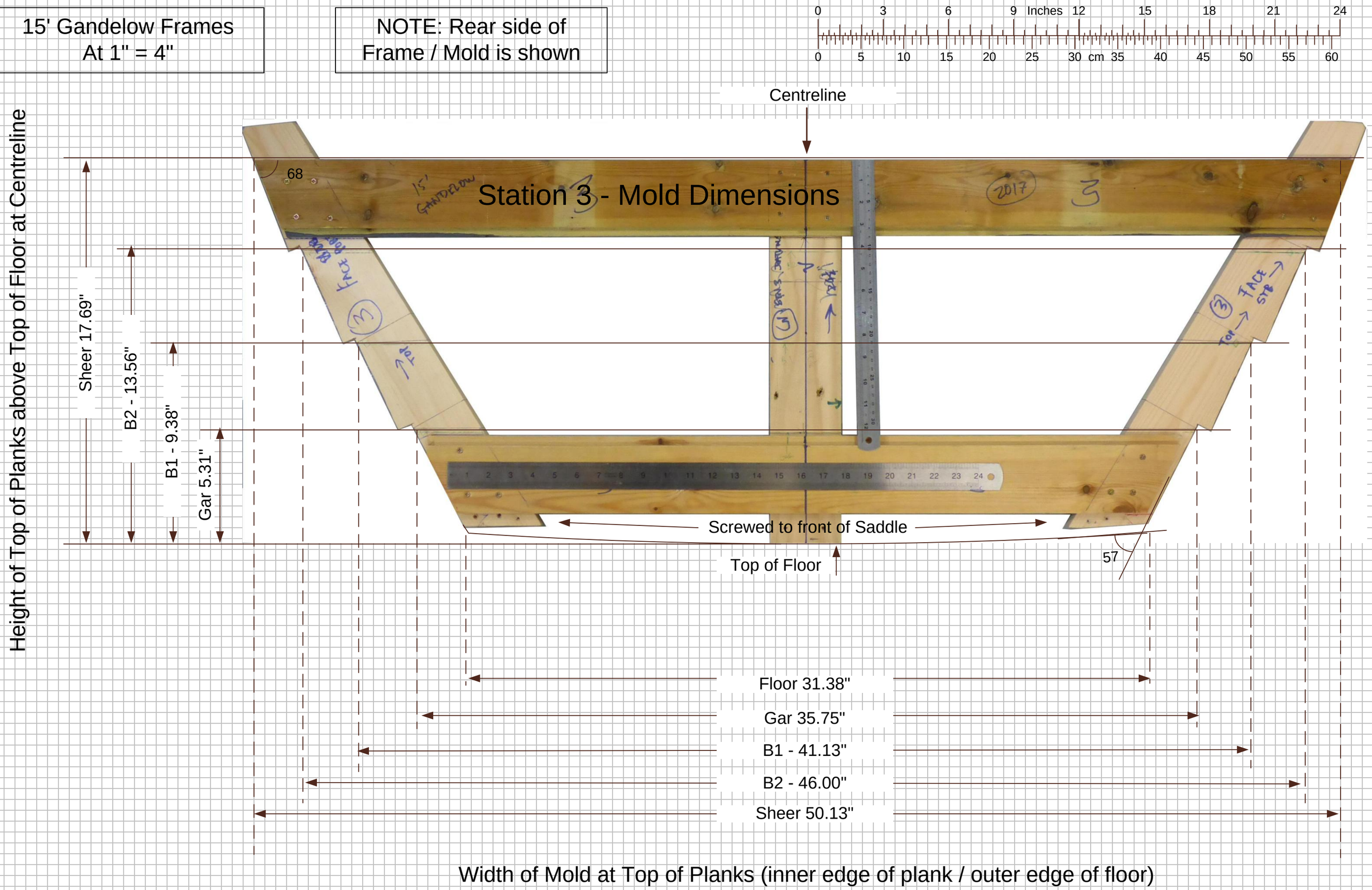

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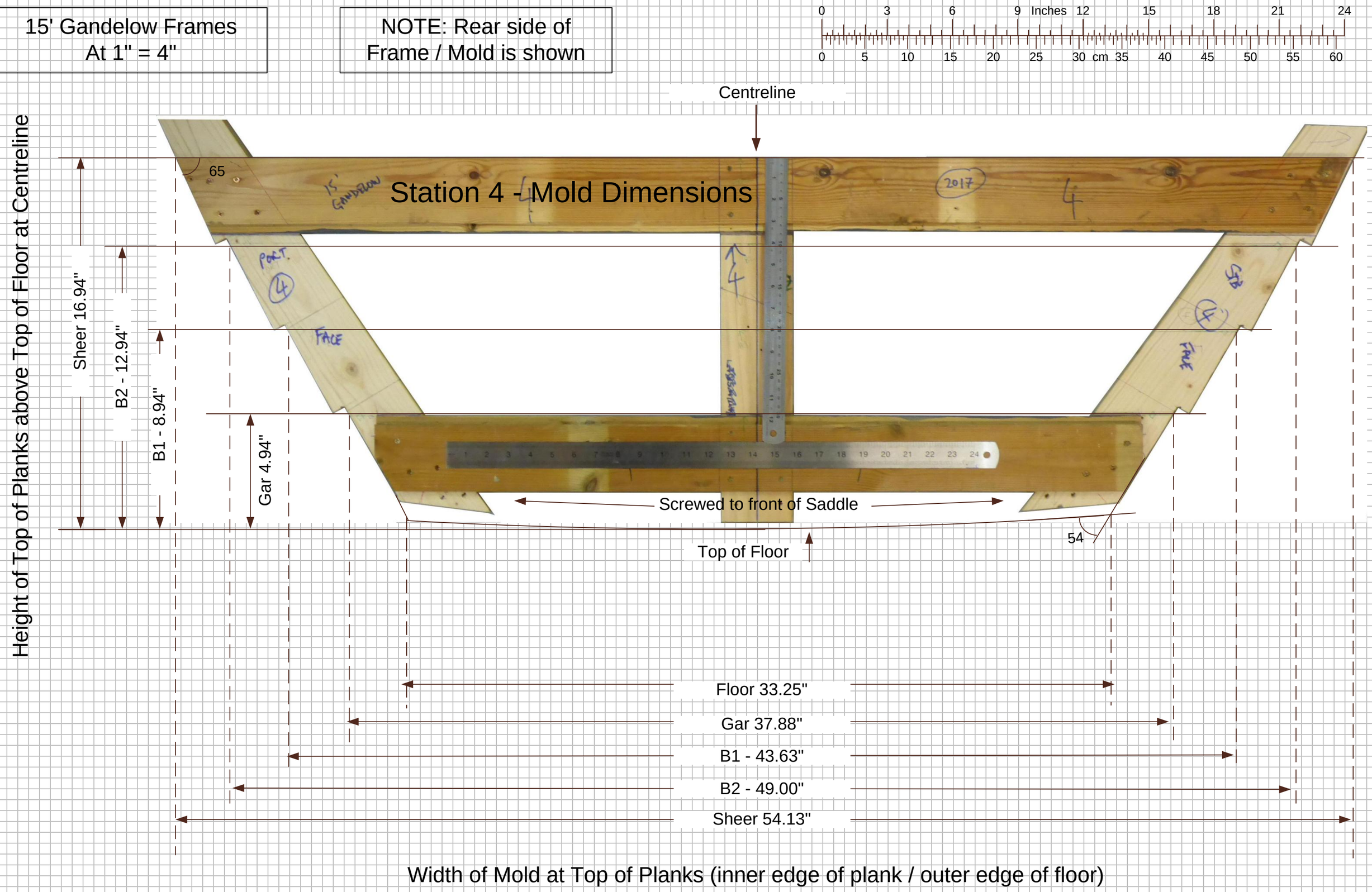

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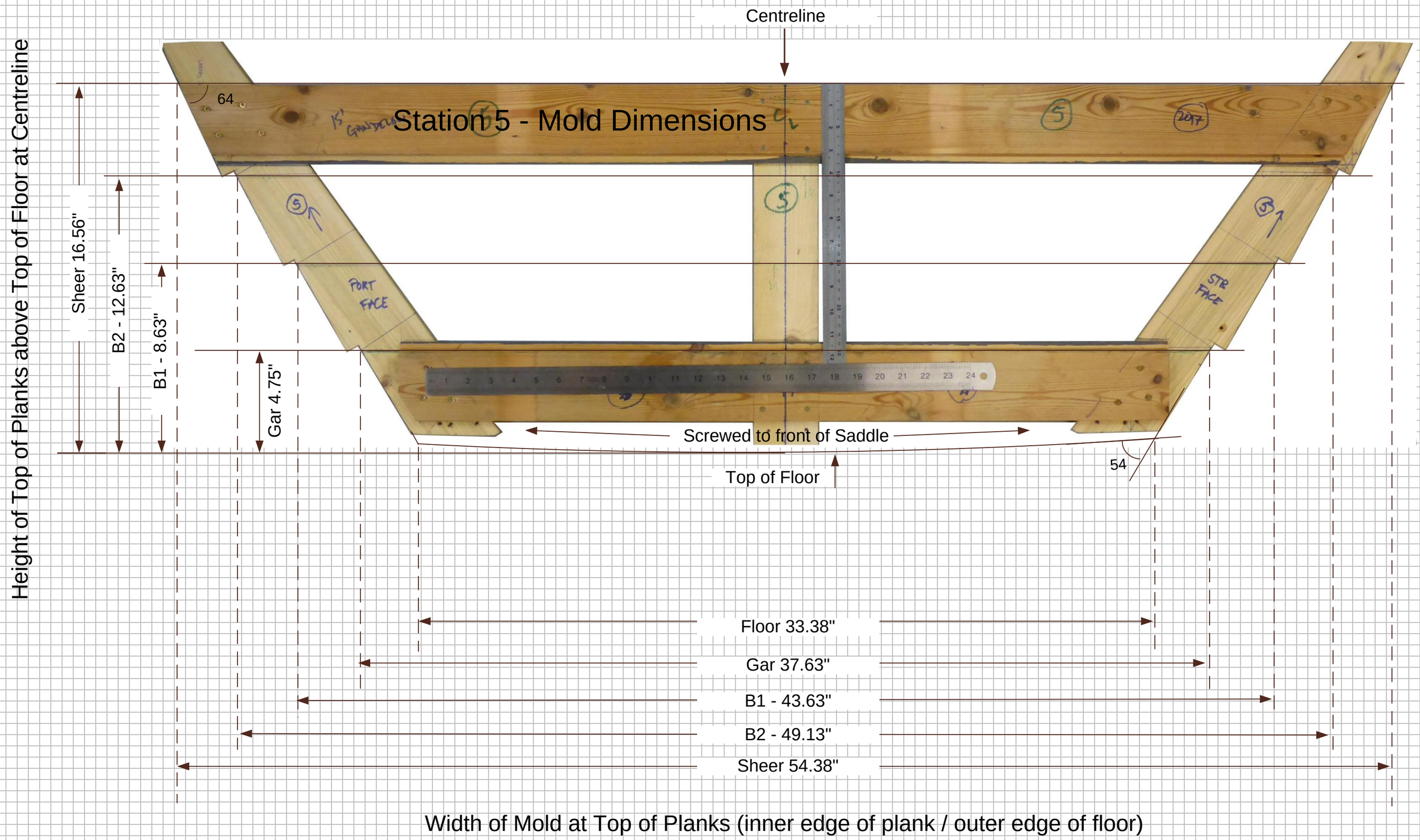

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15' Gandelow Frames
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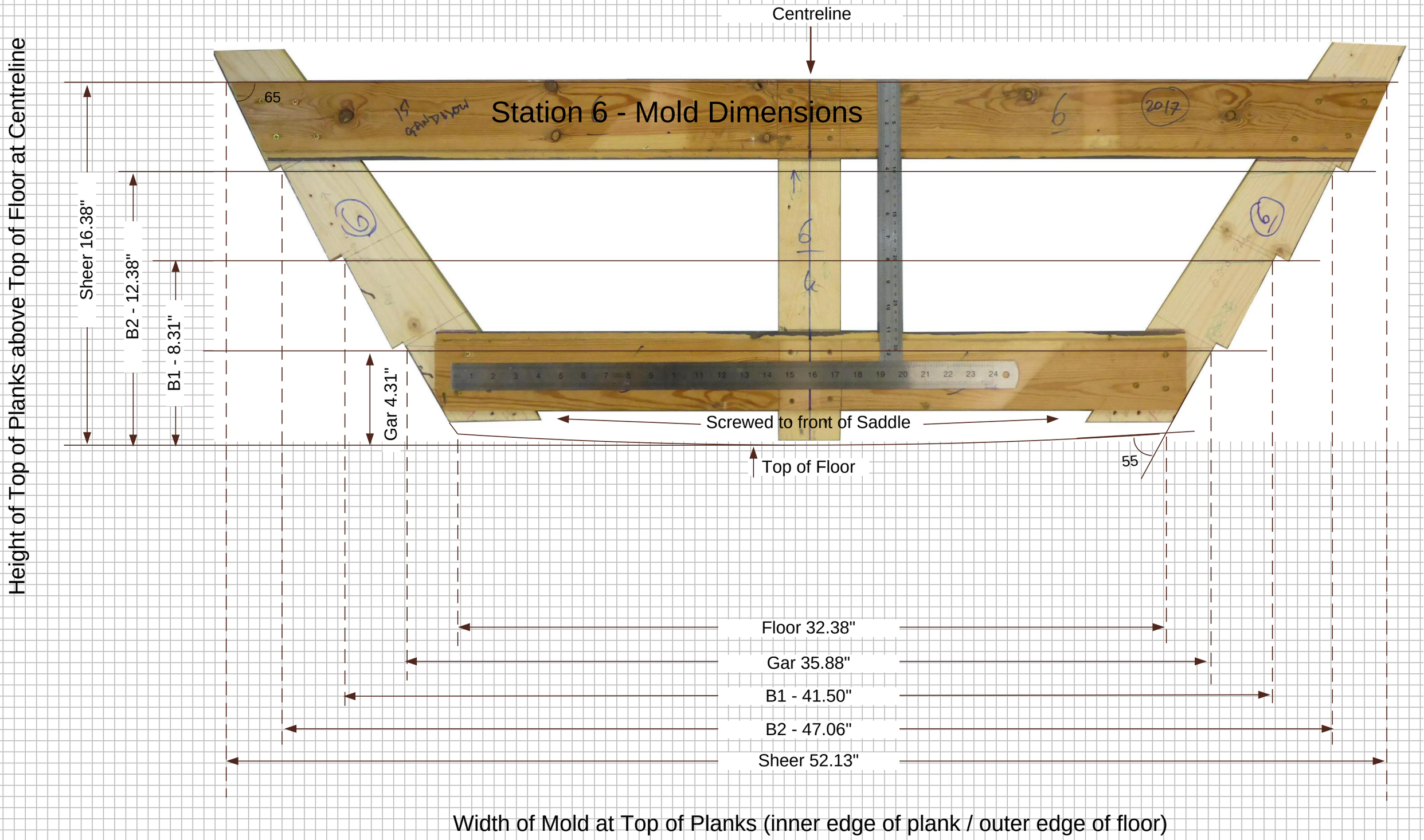

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15' Gandelow Frames
At 1" = 4"

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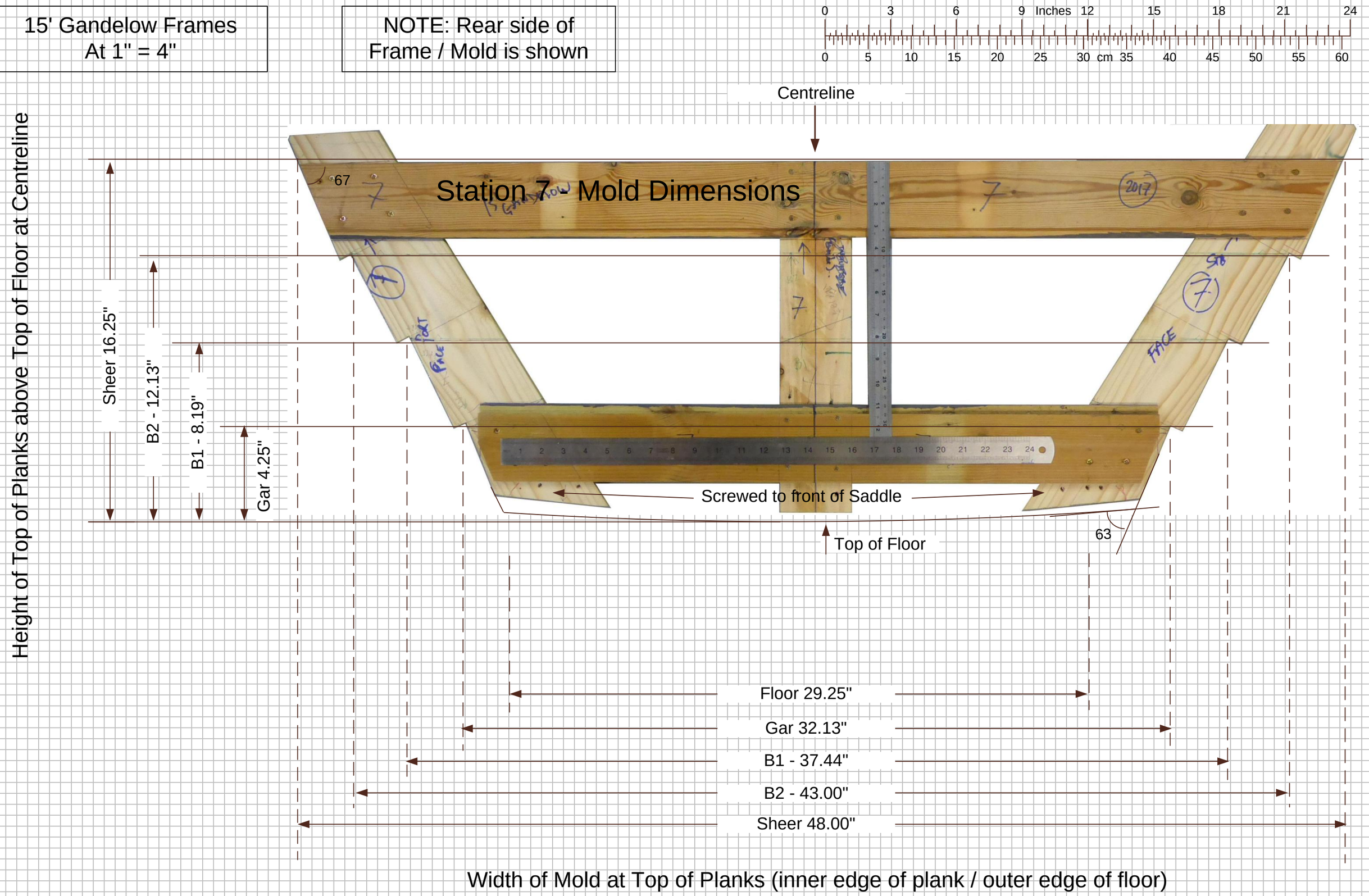

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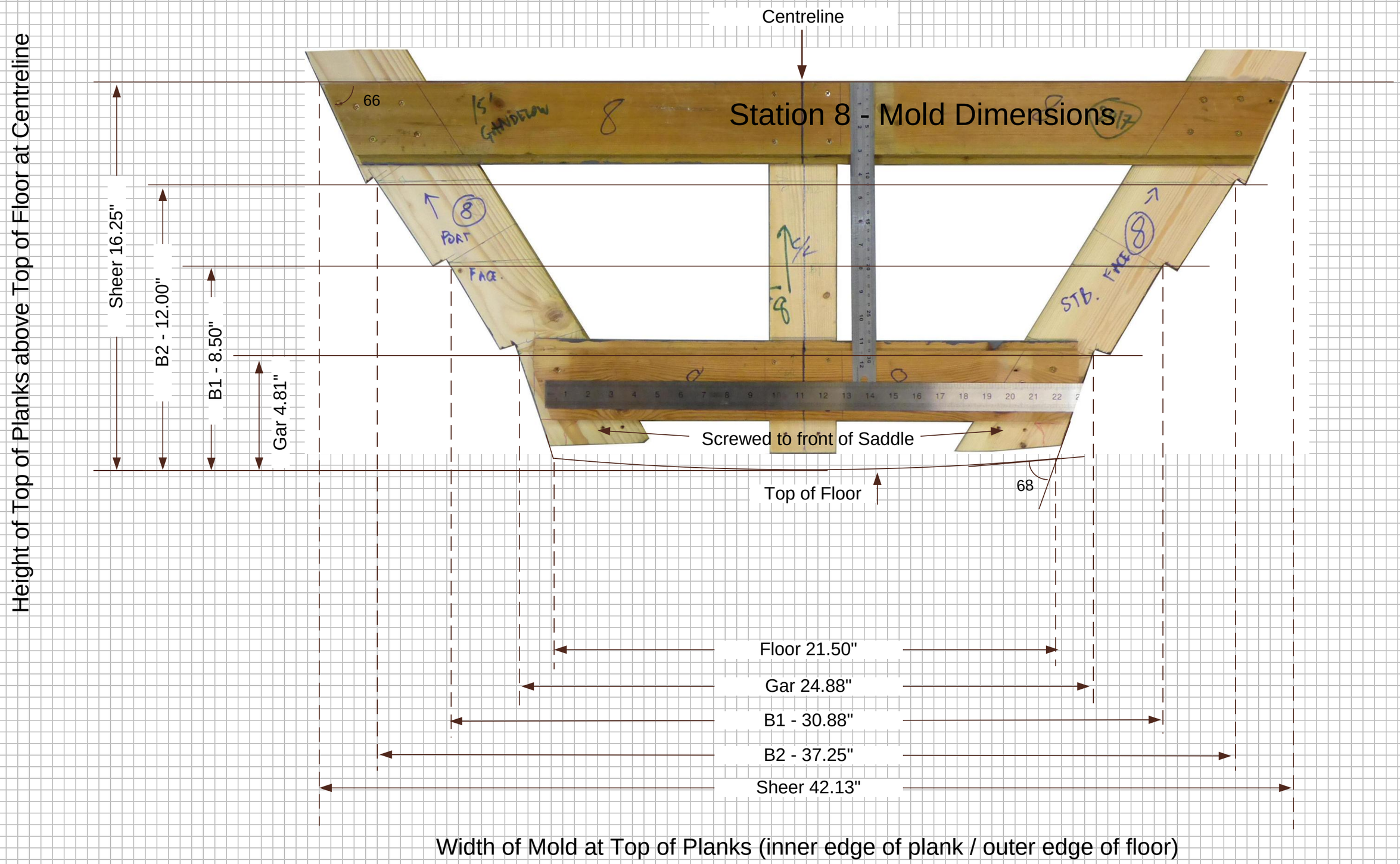

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15' Gandelow Frames
At 1" = 4"

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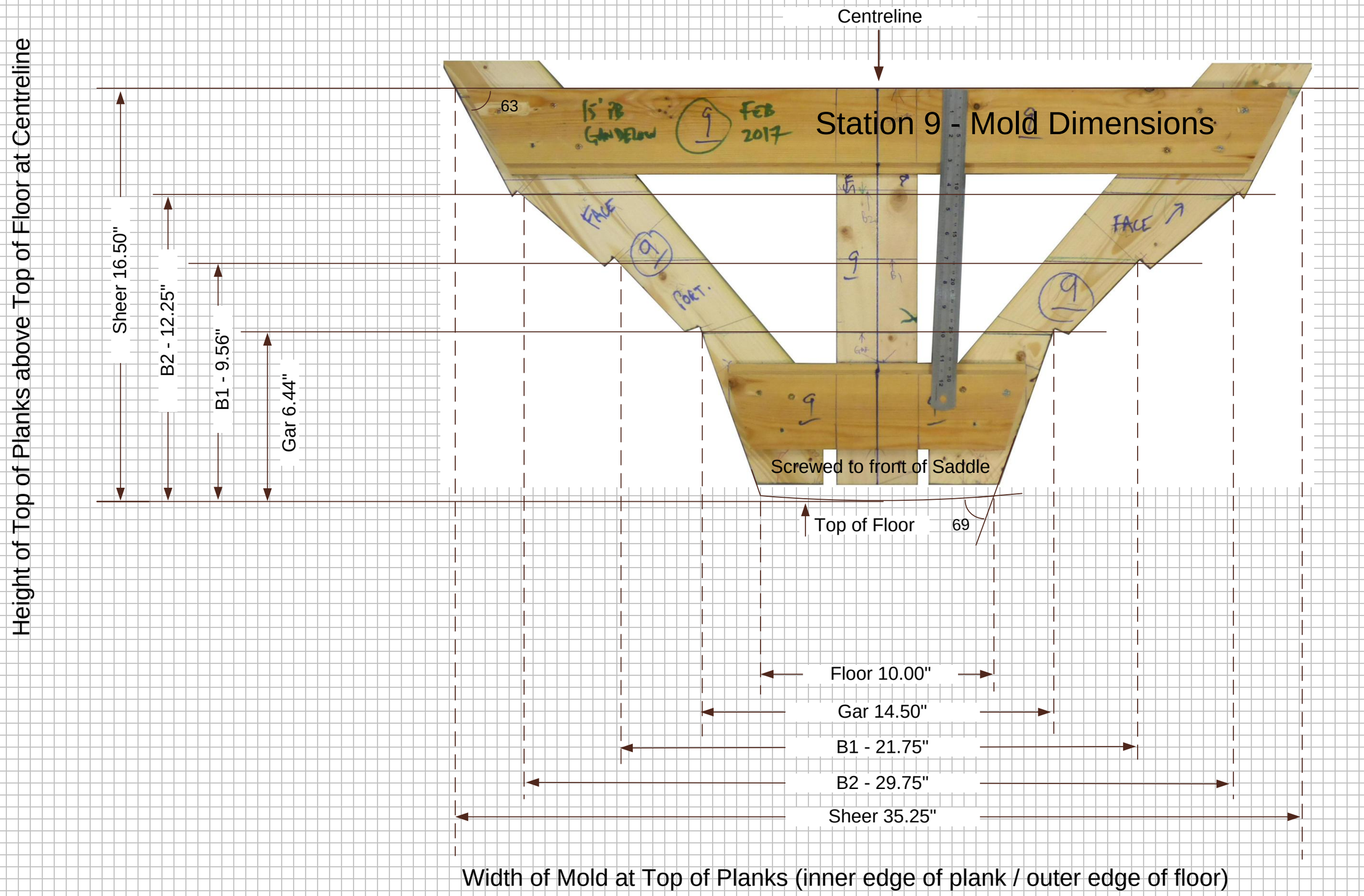

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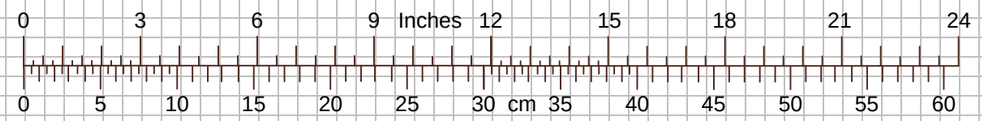
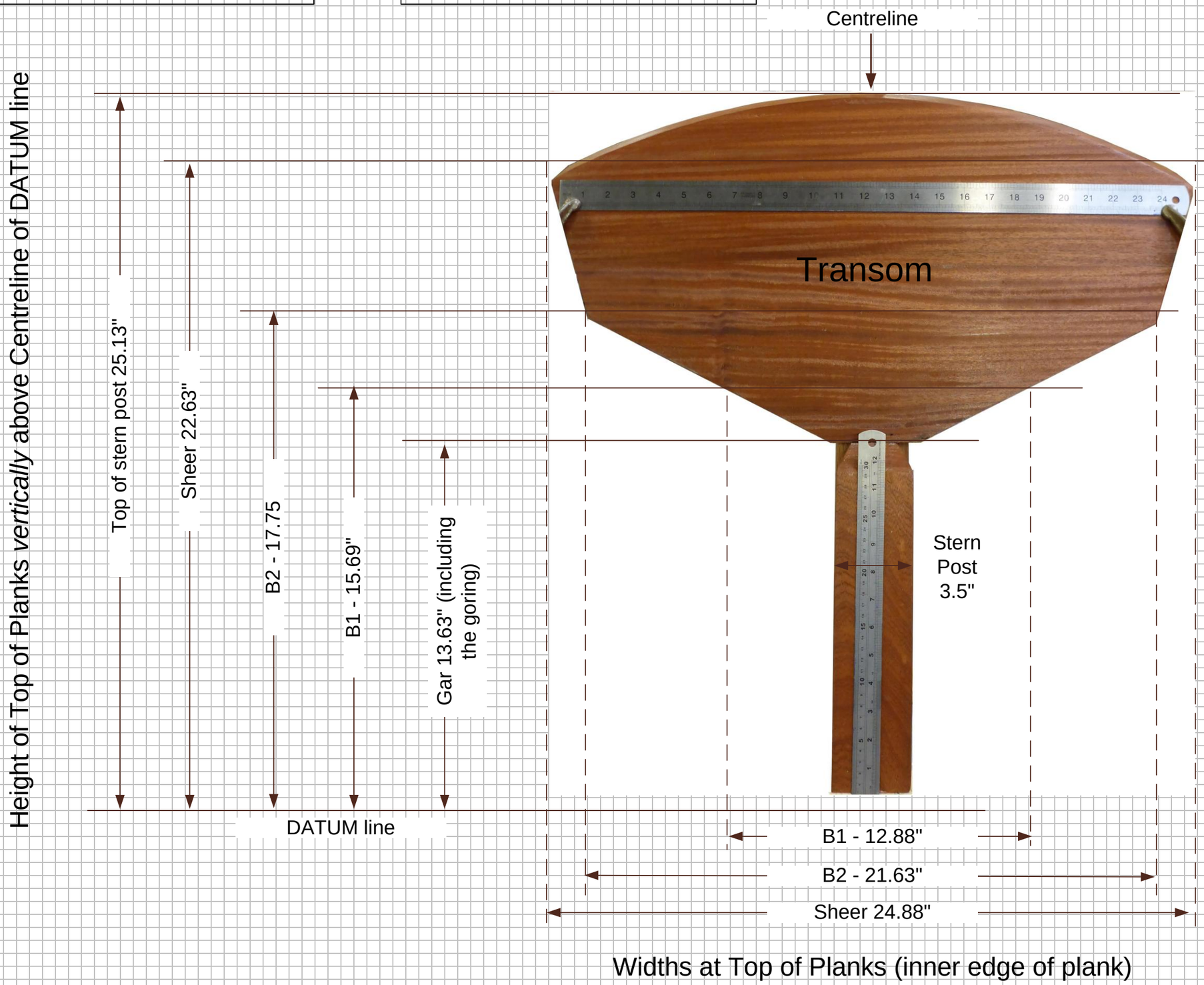
15' Gandelow At 1" = 4"

NOTE: The face shown is the sloping front of the transom.





For details of transom dimensions and bevel angles see next page

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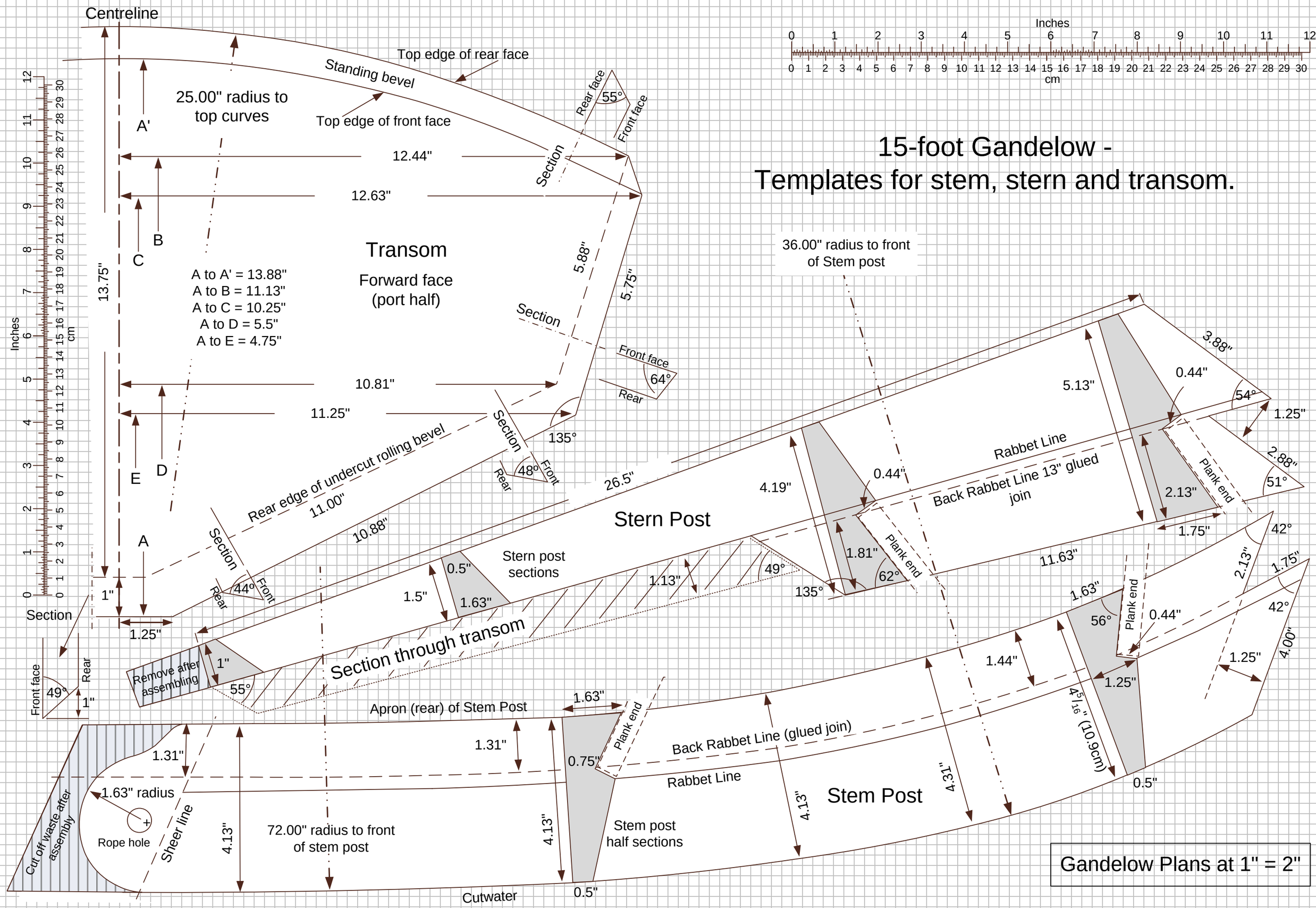
15-foot Gandelow - Templates for stem, stern and transom.



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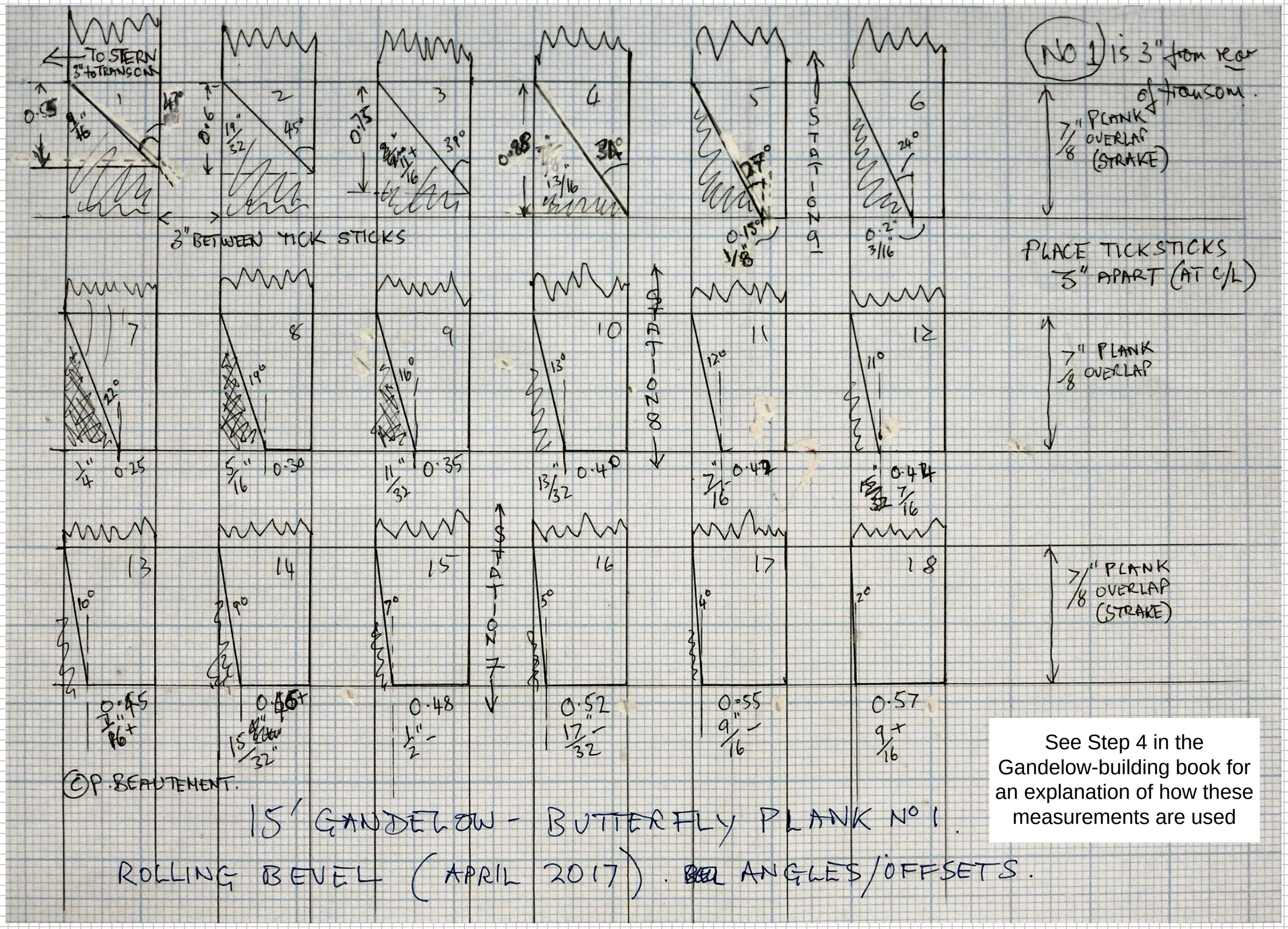

See Step 4 in the Gandelow-building book for an explanation of how these measurements are used