

HERE IS THE CONSTITUTION.

A WONDERFUL YACHT DESIGNED AND BUILT BY THE HERRESHOFFS.

The Model an Improved Columbia—Will Have an Approximate Sail Spread of 14,300 Square Feet—Expected to Be Faster Than Any Cup Challenger or Defender Ever Constructed—How the Bristol Boat Compares With Thomas V. Lawson's Independence—Shamrock's Appearance at Launching Time.

When the Constitution is seen by yachtsmen they will open their eyes in wonder. The plans of the Independence, which have been published in THE SUN, have caused much comment and many have wondered how the yacht, modeled as she is, can carry such an enormous sail spread—yet it is learned that the Independence will carry sixty-five tons of lead on her keel, and although her form naturally gives her much initial stability, she has much less beam than the Columbia and is 1 foot 7 inches narrower than the Constitution.

The Constitution is a remarkable creation. Not only has N. G. Herreshoff, her designer and constructor, turned out a model that for fitness and beauty of lines never has been equaled, but he has revolutionized yacht building. She has been constructed on a new plan and much weight has been saved. The model, which is practically an improved Columbia, is one that will allow the yacht to spread an enormous area of canvas and with more driving power and less weight of hull to offer resistance, it is confidently expected that the Herreshoff Cup defender will be a great deal faster than anything that has yet been built. Those who have watched the vessel grow and who are familiar with her lines and other details are well satisfied that the America's Cup will still be in the custody of the New York Yacht Club after the next series of races with the new Shamrock. The yachtsmen who are interested in the Constitution do not underestimate the probability of the challenger being a speedy boat. They realize that Sir Thomas Lipton has profited by his experience with Shamrock I, and they know that George L. Watson is a capable man, but N. G. Herreshoff has proved himself a genius. He has been successful with three Cup defenders, the Vigilant, Defender and Columbia, and they have no reason to expect that he will not be even more successful with his fourth.

To a novice or even to one who has a fair knowledge of yachts and yacht building very little difference will be noticed between the Columbia and Constitution. Their dimensions are nearly the same. Their general designs are almost alike, but in the Constitution Herreshoff has made refinements over the model of the Columbia which suggest themselves to him while the champion of 1890 was racing. A little change here and there has improved the boat in the designer's estimation so that she will be better able to carry a large sail spread and travel more easily through the water. On the deck both yachts measure 132 feet. The beam is the same, 25 feet, and the height of the mast is the same, 100 feet. The Constitution has a broad base, distributing the downward thrust of the mast over a large area. The plan is followed in the new yacht the mast being stepped between stations 23 and 30, and the pyramid extending from station 23 to station 32. The thickness of the plates is given as 7-18 inch.

The sail plan of the Independence shows a spread of canvas of 14,300 square feet. When made known these figures caused astonishment, and many contended that the Lawson boat was over-squared. The Constitution will have a spread not far behind this. Her mast, which is made of steel, is stepped in a position which will be two feet longer over all than that of the Columbia, and it will gain in length above the deck through the forestay. The topmast will be much longer than that of the Columbia. It will be a similar spar that will house inside the lower mast, and approximately it will be 148 feet from the deck to truck. The length from the upper side of the boom to the top of the halvard block will be about 145 feet. This is two feet less than the Independence and eleven feet more than the Columbia. The base of the sail plan, from the den of the

is a web frame, with two angles at the skin of the boat and one bulb angle 15 inches by 14 inches around the inner edge. A similar web frame is placed at every fourth station, with an extra one interspersed abreast the mast, the location thus being on stations 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72 and 76. The webs are cut of plate 6-9 inches thick in the lower portions and 7-10 inches thick above and under the deck, as they extend across to form the deck beams. Abreast the mast the lower plates are 7-10 inches thick. There are seven plates to each complete web. The webs are each 15 inches deep at the lowest part and less on the topside.

The web frames are spaced a foot 8 inches apart, leaving three stations between each pair. On the middle one of these stations is a steel angle frame 14 inches by 14 inches, with a bulb angle 3 inches by 3 inches. All of these angles extend only up to the seam between plates C and D. Across the keel on each side an angle frame is floor plate 3 inches deep and also a beam 14 inches by 14 inches, with a bulb angle 3 inches by 3 inches. The angle of the middle station there is the ordinary floor plate, 4-6 inch thick. This

taken on the day of the launching, April 20, for Sir Thomas Lipton and were furnished to this city by David Barrie, the representative of Sir Thomas in this country. (Being to the shallow water at Dumbarton, where the yacht was constructed, the builders, Deany Brothers, had to launch the yacht in a pontoon and this boxlike structure sprung from the keel of the yacht hides a good deal of the underbody from view. One picture taken broadside shows that the Shamrock is a clean-cut boat in model. Her foreboard appears to be rather low and her overhangs abnormal, especially the after one. The hull is shortened by a sharp curve at the deck line and then the lines run straight down to a point just aft of the mast where there is a sharp turn to the keel. Aft the underbody seems to take at the usual angle, but the rudder itself is pretty large. The counter is long and low and the lines run away typically. The yacht will be steered with a tiller, furnished by the long one that was in place at the time of launching.

The picture taken from the starboard quarter shows a little of the midship section, which appears to be quite full. The yacht's greatest beam is evidently at the mast step and from that point the run aft is clean. There are no full quarters like those of the

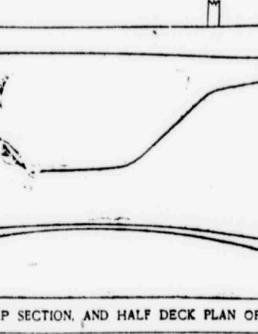
will be invited to be present, and the boat will be christened by his eldest daughter, Miss Gladys Lawson. The public will receive permission to crowd the yard to its capacity. The boat will be sent down the ways during the middle of the forenoon, the tide being high at 10:30 o'clock. The launching of the Boston boat will differ from that of recent Cup defenders in that she will be sent flying down the ground into her natural element in the good old-fashioned way, instead of being lowered slowly by a crane controlled by a windlass. As soon as in the water the Independence will be brought alongside the wharf and her mast stopped. Her rigging and sails will be bent as quickly as possible, and it is expected that she will be under sail by tomorrow day.

FINISHING TOUCHES TO DEFENDER. Riveters Making Fast the Stem and Stern Pieces—Work on Steering Gear. Bristol, May 3.—Preparations for launching the Constitution are going forward with delay. Riveters employed on the job of

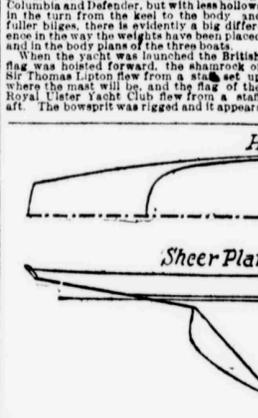
making fast the stem piece, which carries the name, worked until 11 o'clock last night, but it will require until tomorrow night to finish this portion, which is being riveted with great care. As the big street doors were opened to admit the rails the correspondent of THE SUN got an unobstructed view of the yacht for ten minutes. She looks like a boat of gold, so perfect is the polish of her Tobin bronze

Yacht Illinois at Chicago. CHICAGO, May 3.—The yacht Illinois, built to be a challenger for the Seawanhaka cup after design by Crowninshield of Boston, and owned by a Chicago syndicate, headed by George M. Fincham, was inspected by Chicago yachtsmen for the first time yesterday. It rested on the cradle of the flat car that brought it safely from Boston to the yards of the Chicago Shipbuilding Company at South Chicago. Those who saw the yacht yesterday

Sheer Plan, Midship Section, and Half Deck Plan of the Constitution.

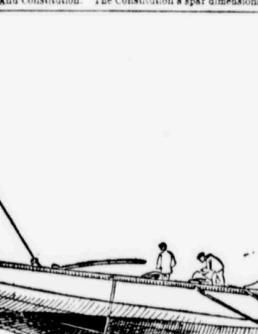


SHEER PLAN, MIDSHIP SECTION, AND HALF DECK PLAN OF THE CONSTITUTION.

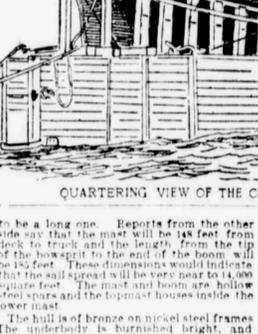


PLANS OF THE INDEPENDENCE.

Table with columns for various measurements (Length, Water Line, etc.) and rows for different yachts (Vigilant, Defender, Shamrock, Columbia, Independence, Constitution).



QUARTERING VIEW OF THE CUP CHALLENGER SHAMROCK.



BROADSIDE VIEW OF THE SHAMROCK IN THE PONTOON.

Independence to Be Launched on May 18. Boston, May 3.—It was announced this evening that the Independence will be launched probably on Saturday, May 18. It will be a quiet affair, Mr. Lawson having no desire for a celebration of any great magnitude. A number of his personal friends

work to cover the deck, as the boat reaches to within a short distance of the roof of the shop, and most places the men are obliged to crawl on hands and knees. The material is laid in adhesive sheets, and hundreds of sticks out to the right length to reach the roof of the shop brace the cork against the deck until it is dried. The wheel was being put in place to-day, which marks the completion of the spring work.

William S. Frawley successfully defended his title as pool champion of the Knickerbocker A. C. last night. He defeated Charles S. Norris, the challenger, in the final match of the championship series by 150 balls to 109. Norris gained a small lead in the first 50 balls, but Frawley passed him and pulled out the rest of the game.

Lord Clonmel of England Said to Be Clarence Marker. Lexington, May 3.—Lord Clonmel of England, who bought Frankfort, the three-year-old, for \$100,000 at the Daily sale, and owner of Banister, winner of the Brooklyn Handicap in 1898, is said to be no other than Clarence Marker, son of the Bonanza King John W. Mackey. John Hanning of New York several days ago bought for Mr. Mackey here the two-year-old colt, S. Camden, by St. Saviour-Warwick, by Imp Decatur, for \$5,000. The youngster is entered in the fifth race at Morris Park to-morrow.

Billiards. In the continuation of the A. U. Billiard tournament at the Metropolitan Academy last night William W. Farin defeated S. B. De Young by 200 points to 175. The latter led up to the fifty-sixth inning. Then Farin gained a quarter of 22, which put him in front, and he held that place to the end. The winner's average was 3-55 with high runs of 22, 20, 14 and 12. De Young averaged 2-47-6. His best runs were 12 and 10. Dr. J. A. G. Douglas and A. D. Ferguson meet in the game to-night.

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Brooklyn Advertisements. There's a way— to tailor ready-to-wear clothing for men that gives never-ending satisfaction. It's in the Quality. Tastes Differ. The Long and Short Top Coats for Spring wear are both popular. Men's \$10 to \$25. Boys' Department we have an array of fine goods at greatly reduced prices. Baldwin & Clothier, 380 and 382 Fulton St., Brooklyn.

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