

June 30, 1938

*Superseded by report to  
June 30, 1939*

N.A.C.A. TANK

Use of structure - to provide information and data regarding the performance of seaplanes on the water analogous to the information furnished concerning the performance of airplanes in the air.

Authority: Original tank - Public No. 1035, 70th Congress, "2d Deficiency Act, fiscal year 1929," approved March 4, 1929.

Extension of tank and shop, construction of two-story office building - Public No. 739, 74th Congress, approved June 22, 1936.

Location - Plot 22, Langley Field, Va.; original tank of 2,020 ft. approved by Secretary of War July 24, 1929; extension to 2,960 ft. approved by Assistant Secretary of War August 26, 1936.

Preliminary work on tank started July 17, 1929.

Main contractors -

Original 2,000-ft. structure -

Structure: Contract NAW-78, dated January 27, 1930, W. P. Rose Co., Goldsboro, N. C.	
Started February 10, 1930; completed August 28, 1930	- \$171,053.00
Watering and unwatering plant: Contract NAW-87, dated June 20, 1930, Newport Contracting and Engineering Co., Inc., Lee Hall, Va.	
Started July 11, 1930; completed September 4, 1930	- \$5,586.00
Chairs, running and braking rails: Contract NAW-90, dated June 25, 1930, Whaley Aircraft and Engineering Co., Norfolk, Va.	
Started June 26, 1930; completed November 29, 1930	- \$6,750.00
Electrical equipment: Contract NAW-91, dated June 26, 1930, Westinghouse Electric and Mfg. Co., Pittsburgh, Pa.	
Started July 2, 1930; completed December 31, 1930	- \$24,665.00
Towing carriage: Contract NAW-131, dated January 15, 1931, Whaley Aircraft and Engineering Co., Norfolk, Va.	
Started January 27, 1931; completed October 28, 1931	- \$32,988.00

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## Main contractors - contd.

## 900-ft. extension:

Construction of temporary bulkhead; construction of basin and its connection to existing work: Contract NAW-433, dated September 4, 1936, C. W. Lockwood, Norfolk, Va.		
Started September 14, 1936; completed June 15, 1937	-	\$71,278.30
Sheet-piling bulkhead: Contract NAW-434, dated September 4, 1936, Carpenter Construction Corp., Norfolk, Va. Completed November 20, 1936	-	\$17,700.00
Construction of extension of steel structure of the canopy of the basin: Contract NAW-435, dated September 4, 1936, Truscon Steel Co., Youngstown, Ohio.		
Started April 12, 1937; completed June 5, 1937	-	\$9,330.00
Extension of the covering of the canopy: Contract NAW-436, dated September 4, 1936, Asbestos Erectors, Cincinnati, Ohio. Completed June 15, 1937	-	\$11,739.00

√ Construction of two-story brick extension: Contract NAW-440, dated October 6, 1936, The W. P. Thurston Co., Inc., Richmond, Va. Completed June 7, 1937	-	\$40,900.00
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## Extension of shop:

Construction of the steel structure: Contract NAW-441, dated October 9, 1936, Truscon Steel Co., Youngstown, Ohio. Completed February 8, 1937		\$2,738.00
Construction of reinforced concrete floor system with its supports: Contract NAW-442, dated October 2, 1936, C. W. Lockwood, Hampton, Va.		
Started October 24, 1936; completed December 24, 1936	-	\$6,833.00
Covering and interior sheathing and ceiling: Contract NAW-445, dated October 19, 1936, Benthall Bros., Phoebus, Va.		
Started January 21, 1937; completed May 3, 1937	-	\$3,905.00

Parts for chairs: Contract NAW-444, dated November 3, 1936, Whaley Aircraft and Engineering Corp., Norfolk, Va. Completed April 27, 1937	-	\$3,449.15
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Placing chairs and running and braking rails in extension of tank: Contract NAW-450, dated December 15, 1936, J. E. Gannaway, Hampton, Va. Completed July 2, 1937	-	\$2,350.00
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Overhead electric trolleys and feeders - extension of tank: Contract NAW-454, dated January 28, 1937, General Construction Corp., Richmond, Va. Completed October 5, 1937	-	\$10,050.38
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Original Tank placed in operation May 27, 1931.

Enlarged Tank placed in operation October 1, 1937.

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	<u>Tank Housing</u>	<u>Office and Shop</u>	<u>Total</u>
Dimensions of building	- 2060' x 28' (av. width) x 26' (av. ht.)	160' x 28' x 18' (av. ht.)	
Ground area	- 60,800 sq.ft.	4,500 sq.ft.	65,300 sq. ft.
Cubic contents	- 1,500,000 cu.ft.	81,000 cu.ft.	1,581,000 cu. ft.
Character	- Steel structure - Careystone covering		
Type and thickness of walls	- Corrugated Careystone - 1/4 in. thick		
Type and thickness of floor	- Concrete - 4 in. and 5 in. thick		
Type of roof	- Corrugated Careystone		

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Dimensions - 2,000 ft. long, 24 ft. wide, 12 ft. deep

Cost of tank and building	-	\$226,629.00
Cost per cu. ft.	-	\$0.143
Cost of tank equipment	-	\$122,327.95