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(All communications should be addressed to "THE LIGHT-HOUSE BOARD")

Treasury Department,

Inclosures

Office of the Light-House Board,

Subject

Washington, May 4, 1894.

Lt. Colonel Jared A. Smith, U. S. A.,

Engineer 10th L. H. District,

Cleveland, Ohio.

Sir:

Referring to Board's letter to you of April 28, 1894, and to your personal letter to the Engineer Secretary of May 1st, 1894, in relation to the designs for the front and rear beacons at Grassy Point (Manhattan) Range Lights, Ohio, the Board informs you that the "Design for sub-structure for Front Beacon" was drawn in accordance with the data as to mean Lake level furnished by the blue print which accompanied your letter to the Board of February 9, 1894. No. 182 of the Atlas accompanying the Annual Report of the Chief of Engineers for 1892, gives curves of the water level of Lake Erie. These curves indicate the mean lake level to be about 2.5 feet below the plane of reference, and the lowest water level to be about 4 feet below this plane, or about 1.5 feet below mean lake level. The Committee on Engineering were of opinion that the piles should be cut off below the lowest water level, assuming

that it was about 1.5 feet below mean lake level. The top of the platform would then be 7 .5 feet above mean lake level, instead of 9 feet as indicated on the design prepared in this office. It was not considered necessary to make new drawings to show this difference of 1.5 feet, as none of the details of construction were changed thereby, except the height of the wooden piles.

It is not the intention of the Committee on Engineering to require that the piles be cut off 7 feet below mean low water in order to meet an extraordinary local case. It is the intention and desire of the Committee to provide a permanent sub-structure for the front beacon by the use of wooden piles cut off below ordinary low water, and capped by cast iron sleeve piles.

The Board authorizes you to consider the expression "below lowest water level", used in the Board's letter of April 28, as modified to read" below ordinary low water level", and to modify the lengths of the cast iron sleeve piles and tension rods as may be necessary to meet the local requirements of the case, and to place the top of the platform at a proper height above the water.

The Board does not deem any further modifications of its letter of April 28, to be advisable, nor does it consider it

necessary that you should be ordered to Washington for personal consultation.

Respectfully,

Phillip Rice

Captain, Corps of Engineers, U.S.A.,

Engineer Secretary.