(Copy)

Boston, October 17th 1850

To Phillip Greely Jr. Esq.

Dear Sir,

The undersigned, in accordance with your direction visited the Minots Ledge Light House on Friday the 18th inst. for the purpose more particularly of examining the various joints of the Structure, with a view to discover whether the reported vibration of the house had loosened the connections, and also to decide upon, and recommend some further strengthening ties, should any such ties in their judgement be needed.

Mr. Swain, as you are aware, was connected with the engineers who had charge of the construction of this Light House. We made a critical examination of all the connections of the several parts of the Structure and is clearly satisfied that they have not undergone the slightest change, and that the whole work is as stiff or rigid now as it was the day it was completed.

The vibration of the Structure, (which we are satisfied has been greatly exaggerated in the current rumors) is occasioned by the elasticity of the Piling, and most of the yielding or springing is below the lower set of horizontal radial ties. This can be materially cor-

This set of braces was embraced in the original design, they are already purchased, and it was the intention of those charged with the construction of the light house, to put them on; but the lateness of the season and roughness of the weather prevented. We would recommend that these should be carefully put on, and as soon as possible, as they would unquestionably stiffen the structure materially. We would further suggest that the entire exterior of the structure should be covered with one coat of red paint, and that the bottom of the piling which comes in contact with the water should have two coats to prevent the rust from accumulating.

The boat hoisting apparatus should be put in good repair. The rude apparatus put up by the late keepers for hoisting small articles when the sea is rough projects up, so as to interfere with, and obstruct the rays of light from some of the reflectors. This should in our judgement be removed, and a small iron crane should be secured to the piling just under the lower corridor of the light house.

The lamp flues need repairing, and the new lamps recently added, require flues.

On account of the increase

danger that a vessel might run into the structure with considerable force, and with more or less injury; for this reason we should think it indispensable that a fog-bell or whistle should be connected to the light house at some convenient point.

With these alterations and additions we are of the opinion that the establishment will be in all its appointments in good substantial condition, and stand the strain of any storm without damage.

All which is respectfully
submitted by Com Ofc. Dutt
(Sign) William Dennison
Ezra Lincoln