

July 22, 2014
W-P Project No. 12972A

Mr. James D Chaousis, II
Town Manager
1011 Wiscasset Road, PO Box 106
Boothbay, Maine 04537

Subject: Mariner Tower Project Review

Dear Jim:

In preparation for the tonight's Boothbay Board of Appeals meeting for the Mariner Tower application for a 120-foot monopole tower located off Ocean Point Road, the following summarizes the status of the peer review.

- Drainage calculations have been submitted along with some follow up documentation to better correlate the calculations with the pre and post development watershed maps. Based on this additional documentation, we offer the following comments (note that these items were provided to AMEC earlier today via email). Based on my conversation with Caitlyn Abbott from AMEC this afternoon, we expect to receive the revised drainage calculations tomorrow morning. These minor issues should not affect the completeness of the application.
 - The flow paths identified for subcatchment S3 in the pre-development condition and subcatchments S3/S4 in the post development condition need to be extended to the furthest point in their respective watershed.
 - From the submitted calculations, the proposed 12-inch culvert appears to be flowing full under the 25 year storm event. We suggest that consideration be given to increasing the size of this culvert to account for the changes in the flow paths noted above and any accumulation of debris over time.
 - The maximum headwater elevation at the culvert inlet should also be checked against the grading of the gravel parking area to ensure this area does not overtop during a storm event.
- Follow up correspondence from Jon Springer was received on July 18th via email discussing the proposed plans for the equipment shelter at the site. While there may be a few details in coordination with what is shown on the AMEC plans and the equipment cut sheets for both the generator and the shelter, we feel this should not be an issue with respect to completeness of the application.
- A spreadsheet was received from Jon Springer on July 15th which details the Spaulding site and also the Bigelow and Spyglass Hill sites. The information also lists the propagation model for the sites used to prepare the RF plots. The information submitted appears to be in order, but any assumptions used in the development of the model have not been received. Information with respect to the empirical data referenced in our Jun 26th letter has been addressed.



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We have also reviewed the list of questions from the Board of Appeals from June 4, 2014. The Board had requested information on the highest point of land in the special residential district and the restricted area of Ocean Point. In addition the Board requested information regarding the highest point of land on Ocean Point or East Boothbay. These elevations and distances are detailed on the enclosed figure. Information with respect to the proposed generator has been submitted and provided to the Town. There are several comments and questions regarding tower placement, use of additional sites, and alternate technologies that warrant further discussion between the Town, the Applicant and Wright-Pierce. We do not have adequate information to offer comments on any of the scenarios at this time.

Based on all of the information received to date with this application, we feel the application can be found as complete and a public hearing scheduled. We would suggest that a conference call or meeting be arranged prior to the public hearing between the Town, applicant and Wright-Pierce to review the tower placement and alternate site scenarios.

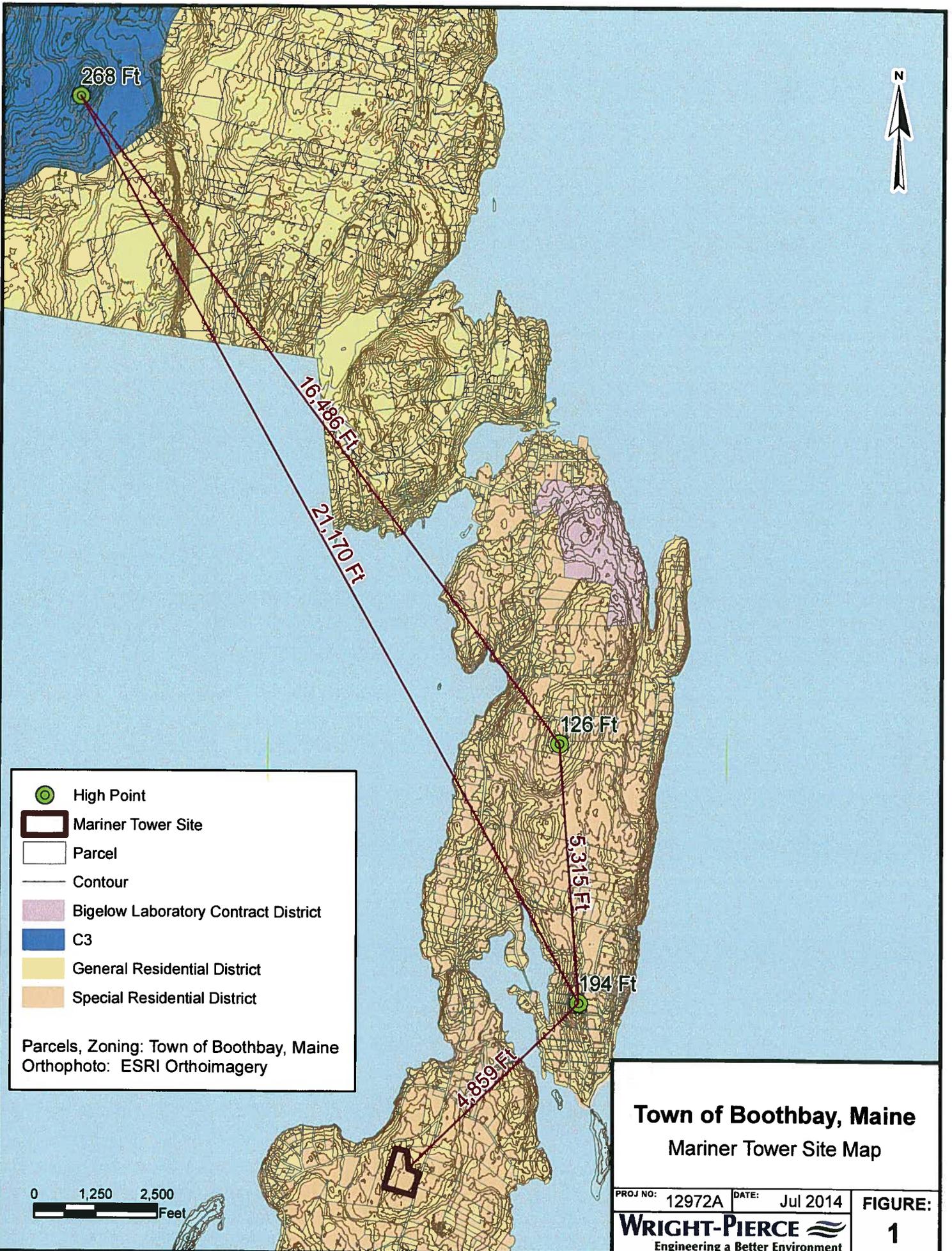
Let us know if there are any questions.

Very truly yours,

WRIGHT-PIERCE

Jeffrey D. Preble, PE
Senior Project Manager

Enclosure



268 Ft

16,486 Ft

21,170 Ft

126 Ft

5,315 Ft

194 Ft

4,859 Ft

-  High Point
-  Mariner Tower Site
-  Parcel
-  Contour
-  Bigelow Laboratory Contract District
-  C3
-  General Residential District
-  Special Residential District

Parcels, Zoning: Town of Boothbay, Maine
 Orthophoto: ESRI Orthoimagery



Town of Boothbay, Maine

Mariner Tower Site Map

PROJ NO: 12972A	DATE: Jul 2014	FIGURE:
WRIGHT-PIERCE 		1
Engineering a Better Environment		

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