Robinson+Cole

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Also admitted in Massachusetts

February 25, 2019

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Petition No. 1359 – Petition of Crown Castle for a Declaratory Ruling on the Need to Obtain a Siting Council Certificate for the Installation of a Temporary Telecommunications Facility at 445 Putnam Avenue, Hamden, Connecticut**

Dear Ms. Bachman:

In accordance with Condition No. 3 of the Council's February 14, 2019 approval of Petition No. 1359, enclosed please find a letter from Joseph V. Borrelli, Jr., P.E. with Delta Oaks Group confirming that all electrical equipment associated with the 445 Putnam Avenue, Hamden, Connecticut telecommunications facility will be installed above the 500 year flood elevation. Modifications to the project construction plans and final Siting Council plans that will accompany Crown's Certificate application will reflect this change.

If you have any questions or need any additional information please feel free to contact me.

Sincerely,

Kenneth C. Baldwin

KCB/kmd
Enclosure
Copy to:
Paul Peckens
Pascale St. Laurent
Ted Hixson
Joseph V. Borrelli, Jr., P.E.

19034880-v1

February 20, 2019

Paul Peckens
Program Manager, Strategic Relocation
Crown Castle
9011 Arboretum Parkway, Suite 280
Richmond, VA 23236
Paul.Peckens@crowncastle.com

Re: 824408-Hamden South/Dixwell Ave. Relo – Temp. Telecommunications Facility
Assessment of 0.2% Annual Chance Flood Hazard (500-year flood)
Site Location: *445 Putnam Avenue, Hamden, CT 06517*

Mr. Peckens:

This letter has been prepared in response to the Connecticut Siting Council's stipulation that all electrical equipment for the proposed Crown Castle telecommunications facility be elevated above the 0.2% Annual Chance Flood Hazard (500-year flood elevation).

FEMA National Flood Insurance Program Map# 09009C0431J (with effective date of May 16, 2017) shows Crown Castle's proposed temporary ballast mounted tower and tower compound located at the edge of special flood hazard area (SFHA) AE (see clip of FEMA Map on page 3). The 1% annual chance or 100-year base flood elevation (BFE) for this location (adjacent to Lake Whitney open space) is 40-feet (North American Vertical Datum 1988) per Map# 09009C0431J and Flood Insurance Study #09009CV001D.

However, a 500-year flood elevation for the special flood hazard area north of the proposed tower site is not published on FEMA Map# 09009C0431J or the Flood Insurance Study #09009CV001D.

The Flood Insurance Study does indicate a 500-year flood elevation for Mill River (Lake Whitney) which is immediately downstream of the special flood hazard area adjacent to the proposed tower site (see clip of FEMA Map on page 4). Backwater conditions from the Whitney Lake dam and Mill River (Lake Whitney) would be expected to control the 100-year and 500-year flood elevations of the special flood hazard area north of the proposed tower site. Given this, it is reasonable to use the Mill River (Lake Whitney) 500-year flood elevation when assessing the proposed tower site. According to the attached FEMA Flood Profile for the Mill River (263P) the 100-year BFE is 40.6-feet and the 500-year flood elevation is 42.5-feet for the section of Mill River near Waite Street bridge (which is downstream of the special flood hazard area north of the proposed tower site).

Topographic survey performed by Jonathan Murphy Professional Land Surveying (see clip of survey on page 5) indicates that the proposed tower would be installed at a location where existing grade is equal to 42.5-feet and that the tower compound would have a lowest adjacent grade of 41.5-feet. The existing grade within the proposed tower compound would range from elevations of 41.5-feet to 42.75-feet.

Electrical equipment would need to be elevated above 500-year flood elevation of 42.5-feet to satisfy the Council's request. It is anticipated that any new transformer required for the tower site would be pole mounted a minimum of 15 to 20-feet above existing grade and therefore would

be located well above the 500-year flood elevation. The proposed electrical power meters and disconnects will be mounted on a proposed utility H-frame and elevated a minimum of 1.5-feet above existing grade. Existing grade at the location of the proposed utility H-Frame is approximately 42.75-feet (which is already above the 500-year flood elevation) and the base of the meters and disconnects will be installed at minimum elevation of 44.25-feet (approx. 1.75-feet above the 500-year flood elevation) in this location.

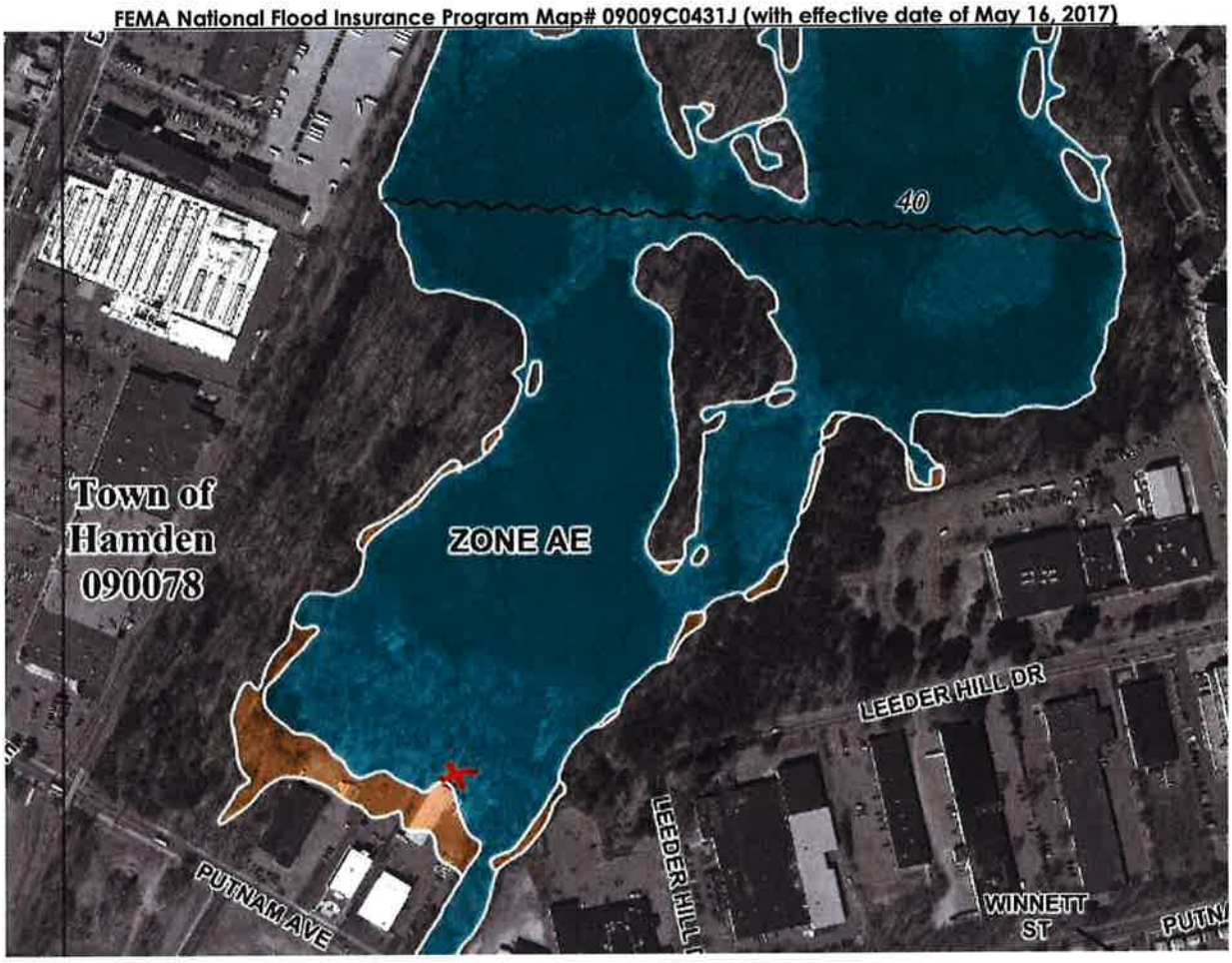
If the Council's request also extends to the carrier equipment the cabinets can be installed on elevated concrete equipment pads or steel equipment platforms. The finished floor of any proposed equipment pad or platform would need to be set above the 500-year flood elevation of 42.5-feet to accommodate the Council's requirement. The pads or platforms would need to be elevated approximately 0.5-feet to 1.5-feet above existing grade in the lower areas of the proposed tower compound to protect equipment from the 500-year flood. These elevations are referenced to the North American Vertical Datum of 1988.

Please do not hesitate to contact me if you require additional information or have any questions.

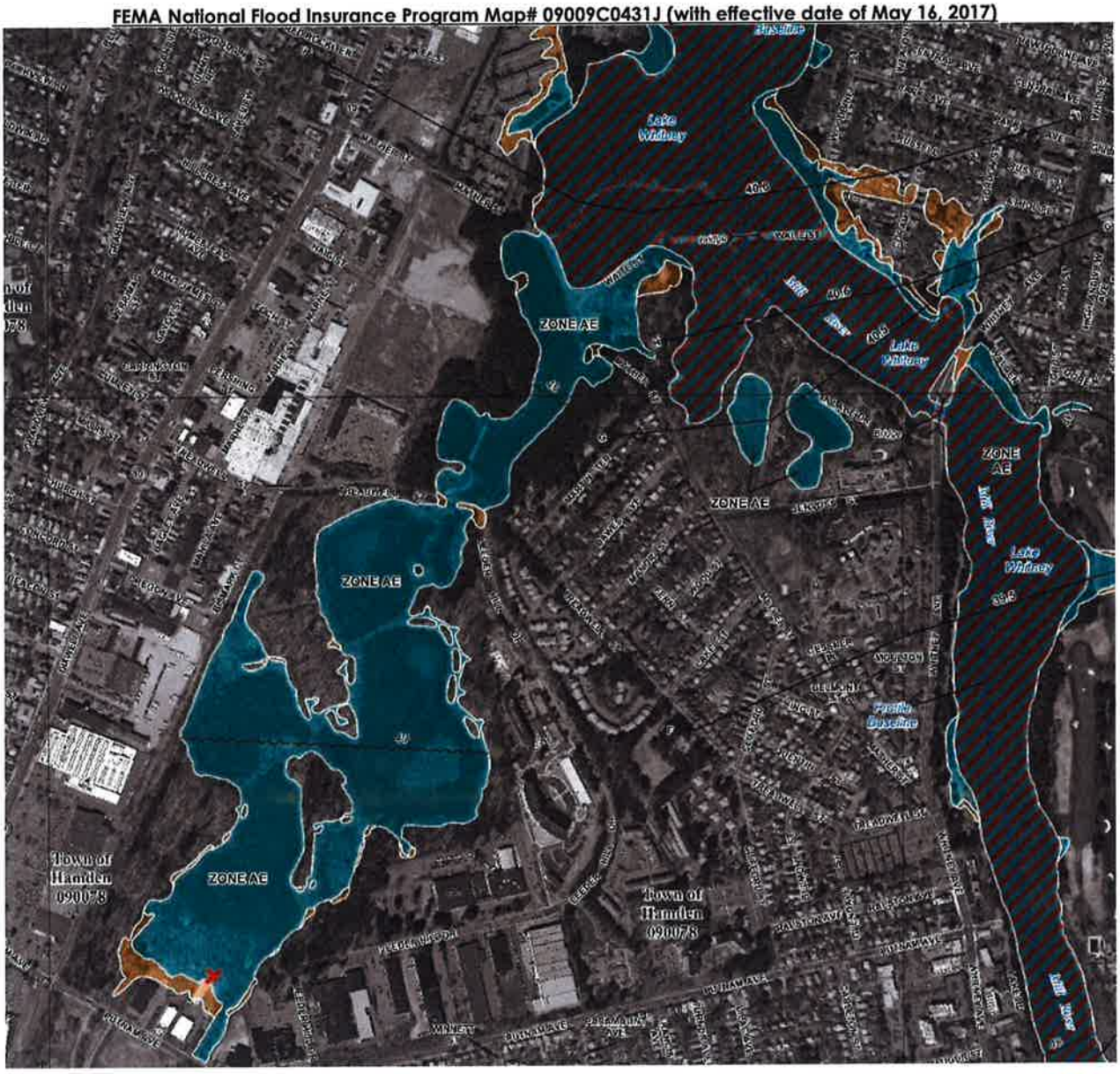
Respectively,
Delta Oaks Group

Joseph V. Borrelli, Jr., P.E.
Managing Partner

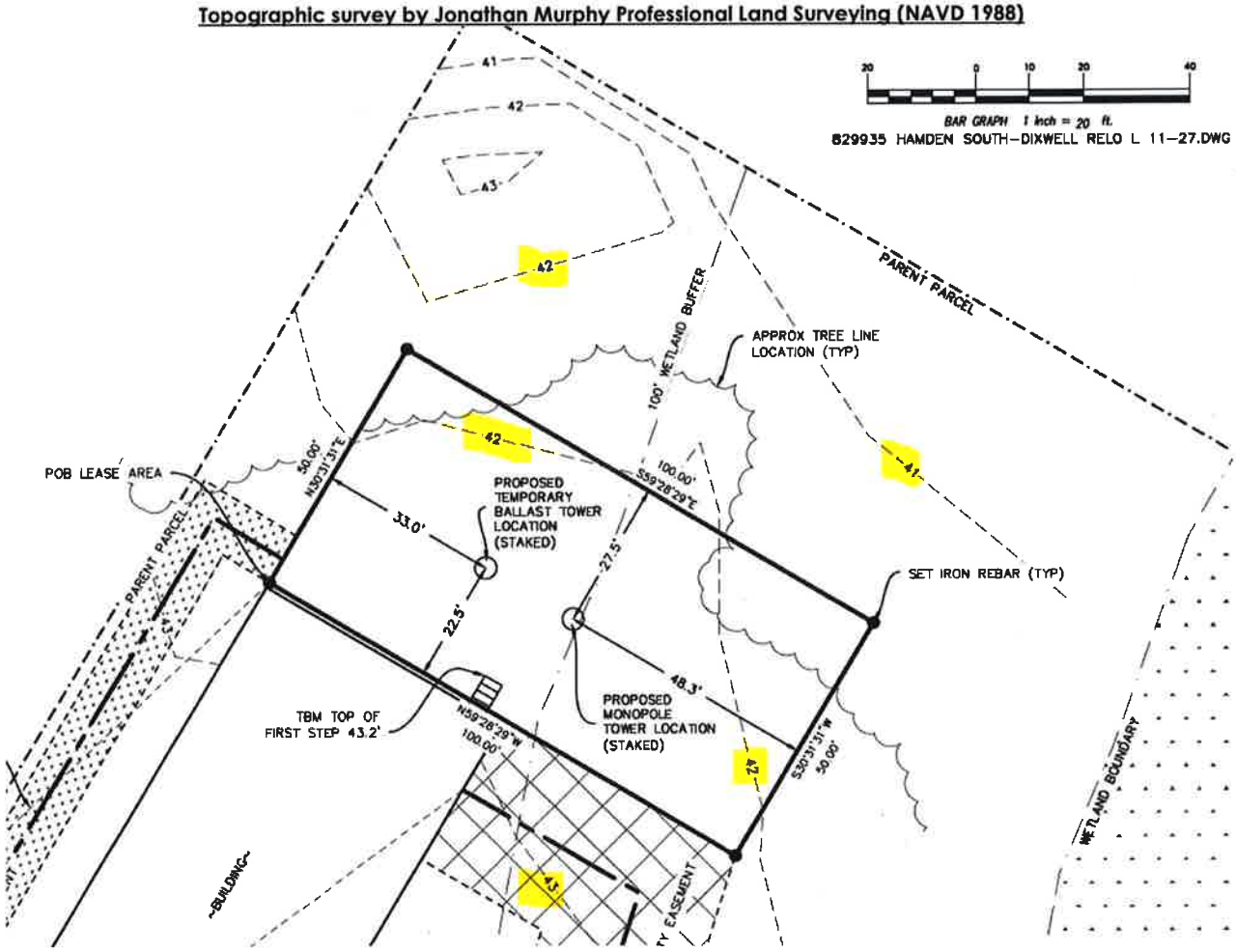
FEMA National Flood Insurance Program Map# 09009C0431J (with effective date of May 16, 2017)



FEMA National Flood Insurance Program Map# 09009C0431J (with effective date of May 16, 2017)



Topographic survey by Jonathan Murphy Professional Land Surveying (NAVD 1988)



FEDERAL EMERGENCY MANAGEMENT AGENCY

NEW HAVEN COUNTY, CT

(ALL JURISDICTIONS)

FLOOD PROFILES

MILL RIVER