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TO: Bogota Borough Planning Board

FROM: Kevin J. Webb, PE
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DATE: 19 February 2021

**RE: Natural Resource Inventory
Preliminary and Final Site Plan Application
30 Cross Street
Block 113, Lots 7, 7.01, 7.02, 7.03, 8, 8.01, and 8.02 (Bogota)
Block 152.01, Lots 1, 1.01, and 2 (Ridgefield Park)
Borough of Bogota and Village of Ridgefield Park, Bergen County, New Jersey
Langan Project No.: 130148001**

This memorandum summarizes the soils identified by the current Soil Survey for the subject site.

The soils at the site are identified as Urban land (UR) according to the current Soil Survey, as seen in the attached Figure 1.

The United States Geographical Survey (USGS) defines Urban land (UR) as an area characterized by buildings, asphalt, concrete, urban gardens, and a systematic street pattern. For UR soils, the depth to the restrictive layers of soils and the depth to bedrock are more than 80 inches per the soil survey.

Portions of the site are subject to inundation by 1 percent annual chance flood from the Hackensack River; the base flood elevation is 8 feet (NGVD 1988).

The Preliminary Geotechnical Investigation prepared by SESI Consulting Engineers dated January 3, 2020 identified that the existing soils, given the presence of historic fill and underlying organic soil deposits are unsuitable to support the proposed structures without implementing either a deep foundation system or use of some form of ground improvements. The conclusion as to what method of building support system will be used shall be determined through additional geotechnical investigations.