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Cape Cod Commission
Attention Monica Mejia
3225 Main Street
PO Box 226
Barnstable, MA 02563

September 7, 2016

Re: Drainage Calculations
Lots 2 and 3 (aka-Lot 7)Technology Park Drive
Bourne, MA

Ms. Mejia,

Our office, at the request of our client, have prepared site plans, an on-site sewerage disposal system and surface water drainage plans for the development of the above referenced property. The methodology of the drainage design is outlined in the **Stormwater Management Report for Lot 7 Technology Park Dr. Bourne, Ma** and dated 8/1/2016.

Included in the report is the data for calculating the surface water runoff. That information consists of soil data and testing, watershed areas, slopes and sizes, and county soil maps. Also included are TSS calculations and typical details for bio-retention.

The general location, size and shape of the catch basins, forebays and detention areas are on the engineering plans sheet 1. The specific details of the headwalls, volume of the forebays and retaining walls are on the detail sheets 5 and 6.

The planting design for the swale, rain garden and detention areas are depicted on plans prepared by RESCOM and are meant to accompany the engineering design. The landscaping plants to be utilized were chosen by the landscape designer prepared by RESCOM. Between the two sets of plans all the details necessary to build the stormwater drainage system have been provided.

The stormwater system has been designed for containment of the small, moderate and less frequent high-intensity storm. The stormwater design was prepared to contain the 1" rainfall event by the use of rain gardens and forebays. The larger storms will be contained in the larger retention and detention basins located down gradient of the swales and rain gardens.

It is therefore my opinion and I do certify that the stormwater design in conjugation with the Stormwater Management and the Landscape Operations and Maintenance Plans complies with the Cape Cod Commission Stormwater Minimum Performance Standards as outlined in –WR 7.4.

jack landers-cauley

Jack Landers-Cauley, PE

Drainage-lots 2 and 3 Waterhouse