

# EXISTING GRADE, INC.

**Land Surveyors - Civil Engineers**

September 13, 2023

Town of Bourne Building Department  
Mr. Ken Murphy – Inspector of Buildings  
Bourne Town Hall  
24 Perry Avenue – Room 203  
Buzzards Bay, Massachusetts 02532

**RE:     *Existing Infiltration Basin Inspection Memo***  
***Eastern Sky, LLC***  
***Wildwood Lane***  
***Bourne, Massachusetts***

Mr. Murphy:

This memorandum serves as an engineering and field inspection summary of the infiltration basin situated on the southern side of Wildwood Lane in Bourne, MA, located between Lots 66 and 65 (Town of Bourne Assessors Map 6, Parcels 128 and 127, respectively). Eastern Sky, LLC, the property owner, engaged Existing Grade, Inc (EGI) to assess the infiltrative capacity and overall functionality of the basin. The assessment took place on August 31, 2023.

Observations:

1. Drainage Network Configuration:

Upon the site inspection, it was noted that the existing road gradient appears to direct stormwater runoff towards the catch basins situated along the curb line of Wildwood Lane. The drainage network conveys runoff to the infiltration basin without any apparent obstruction from debris or unfavorable pipe slopes. The placement and elevation of the observed catch basins align with the original subdivision plans and capture the majority of runoff generated by the roadway.

2. Infiltration Basin Condition:

During the inspection, the infiltration basin was observed to be completely dry, with no visible indications of stormwater retention or ponding. The basin appears to have been designed in accordance with Massachusetts Stormwater Management Standards, considering the favorable soil conditions of the site for infiltration. EGI observed no sedimentation or clogging of the porous basin floor material or any signs of channelization outside the basin. These observations suggest that the basin is functioning as intended.

Photographs:

Attached please find photographs taken during the site visit, depicting the drainage network and related components. These images provide visual documentation of the inspection findings.

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**Douglas, MA 01516**  
**(508) 694-6501**

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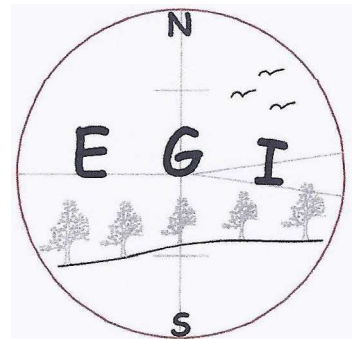
Should you have any questions or concerns regarding this assessment, please do not hesitate to contact me at (508) 694-6501. We remain at your disposal to address any further inquiries or requirements related to this project.

EXISTING GRADE INC.



Edwin Gless, P.E., P.L.S.  
President

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Figure 1 – Entrance to Wildwood Lane



Figure 2 – Catch basin along Wildwood Lane

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Figure 3 – Entrance Catch basin on Wildwood Lane



Figure 4 – Looking West down Wildwood Lane showing catch basins

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Figure 5 – Overall Picture of the Existing Infiltration Basin



Figure 6 – Infiltration Basin Floor (dry)

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Figure 7 – Infiltration Basin Floor (dry)



Figure 8 – Infiltration Basin Inlet (dry)

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Figure 9 – Infiltration Basin Floor (dry)

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