

Donna Phillips

Subject: FW: 57 Hendee Rd. LLC. Town of Andover Wetlands Application
Attachments: 57 Hendee Rd. LLC Engineer Comment Respose - Cut and Fill Volume Evaluation.pdf;
ATT00001.htm; 57 HENDEE RD LLC SITE PLAN REVISED AUGUST 12 2020.pdf;
ATT00002.htm

From: Andrew Bushnell <abushnell@bushnellassociatesllc.com>
Date: August 13, 2020 at 2:38:24 PM EDT
To: brandon@yrc-ne.com
Cc: Donna Phillips <codyb69@gmail.com>, Megan <merluc3@yahoo.com>
Subject: 57 Hendee Rd. LLC. Town of Andover Wetlands Application

Brandon,

Attached is the most recently revised site plan for the 57 Hendee Rd. LLC wetlands application in Andover for your review. I have also attached a copy of my reply to your comment memo and copies of the cut and fill volume evaluation. If you have any questions or require any additional information please let me know.

Andrew Bushnell, P.E., L.S.

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August 12, 2020

Brandon Handfield P.E.
Yantic River Consultants

Re: Engineering Comments 57 Hendee Rd. LLC. Town of Andover Wetlands Application

Mr. Handfield,

The following information is in response to comments contained in your memo Ms. Lally Town of Andover Wetlands Commission Chairperson concerning the above referenced project and project site plan revised to August 12, 2020.

- 1.) The 200' URA was added to the revised plan.
- 2.) The following information has been provided on the revised plan
 - a. Grading of septic system design, septic tank and piping
 - b. Limit of clearing and disturbance
 - c. Vertical datum, FEMA section lines and the conversion used to determine the base flood elevation (provided in a previous email)
 - d. Total disturbance within the regulated area
- 3.) Detail evaluation of cut and fill volumes on the site (enclosed)

Should you have any questions or require any further information regarding this project please feel free to contact me.

Andrew F. Bushnell PE. LS.

Volumes by Triangulation (Prisms)

Thu Aug 13 13:45:38 2020

Existing Surface: Q:\2019-70 PHILIPS HENDEE RD ANDOVER CT\EXISTING FLOOD PLAIN REM

Final Surface: Q:\2019-70 PHILIPS HENDEE RD ANDOVER CT\PROPOSED FLOOD PLAIN REMC

Cut volume: 10,256.9 C.F., 379.88 C.Y.

Fill volume: 57.6 C.F., 2.13 C.Y.

Area in Cut : 23,496.3 S.F., 0.54 Acres

Area in Fill: 1,114.8 S.F., 0.03 Acres

Area exactly in daylight: 672.9 S.F., 0.02 Acres

Total inclusion area: 25,284.0 S.F., 0.58 Acres

Average Cut Depth: 0.44 feet

Average Fill Depth: 0.05 feet

Cut to Fill ratio: 177.97

Export Volume: 377.7 C.Y.

Elevation Change To Reach Balance: 0.403

Volume Change Per .1 ft: 93.6 C.Y.

Cut (C.Y.) / Area (acres): 654.47

Fill (C.Y.) / Area (acres): 3.68

Max Cut: 1.180 at 696960.544,337412.626

Max Fill: 0.155 at 696849.637,337382.218

Volumes by Triangulation (Prisms)

Thu Aug 13 11:11:59 2020

Existing Surface: Q:\2019-70 PHILIPS HENDEE RD ANDOVER CT\EXISTING HOUSE SITE.tin

Final Surface: Q:\2019-70 PHILIPS HENDEE RD ANDOVER CT\PROPOSED HOUSE SITE.tin

Cut volume: 0.0 C.F., 0.00 C.Y.

Fill volume: 9,334.5 C.F., 345.72 C.Y.

Area in Cut : 0.0 S.F., 0.00 Acres

Area in Fill: 10,778.9 S.F., 0.25 Acres

Total inclusion area: 10,778.9 S.F., 0.25 Acres

Average Fill Depth: 0.87 feet

Cut to Fill ratio: 0.00

Import Volume: 345.7 C.Y.

Elevation Change To Reach Balance: -0.866

Volume Change Per .1 ft: 39.9 C.Y.

Cut (C.Y.) / Area (acres): 0.00

Fill (C.Y.) / Area (acres): 1397.13

Max Fill: 2.226 at 697282.518,337493.521