




Green Estates, Knox County #119-043, Site Plan Revision Meeting Note Summary

From Chris Granju <chris@foreignlanguageacademy.org>

Date Thu 6/4/2020 11:06 AM

To dfgreen1972@gmail.com <dfgreen1972@gmail.com>; gtucker@rgc-a.com <gtucker@rgc-a.com>

Cc Pittman, Stephen <spittma1@vols.utk.edu>; Arnold Cohen <agc@dmrplaw.com>; Jim Snowden <Jim.Snowden@knoxcounty.org>

 3 attachments (5 MB)

Level_Spreader_Design_Typical.pdf; LevelSpreader_DesignClip.pdf; LevelSpreader4-30-20_marked.jpg;

[External Email]

Gentlemen,

I am writing to memorialize our meeting at the Green Estates site Tuesday June 2, 2020 at 9AM. Present at the meeting were Stephen Pittman, Garry Tucker, Darren Green and myself. The weather was sunny, approximately 75 degrees and there was no rain in the preceding days.

Stephen and Amanda Pittman, who own adjacent property immediately north of the site, have concerns regarding the stormwater runoff from the site. I reviewed the site plan and historic data to get a clear understanding of the hydrology of the area prior to construction. The Green Estates site naturally has varied in vegetative ground cover and generally drains to the north with runoff entering the Pittman property in an unconcentrated manner and naturally collecting to form a shallow drainage swale farther downstream before entering an unnamed tributary to Beaver Creek. The purpose of our dialog is to ensure the final performance of the drainage system at Green Estates best matches the pre-development natural condition and thus reduces environmental impacts.

During our meeting, we reviewed the design plan and the current conditions. The area of specific concern is the **level spreader**. For the benefit of all parties, here is a summary of what was agreed during our meeting. Please note, I am also copying Jim Snowden on this letter, so he can share this information with his staff and anticipate the revisions.

1. The current level spreader appears to be 50' in length and located per the design plan. The overflow surface varies in elevation. This variation specifically allows a low point immediately opposite the pipe inlet which allows concentrated overflow in a location with the steepest slope downstream. The steep slope will further concentrate the flow. The key component of a level spreader for its proper function is the overflow point is established at precisely a 0.0% slope. It was noted that geofabric was used to install the rock for the spreader. All parties agreed the spreader was not currently performing as intended in the design plan.
2. Darren Green will engage Robert Campbell & Associates (RC&A) to make a topographical survey of the current level spreader location.
3. Using the topographic survey data, RC&A will develop a detailed design plan for the level spreader to include the following design considerations:
 - a. Ensure space and topography allow construction of a level spreader pursuant to Knox County Stormwater Design Manual 7.5.7.

- b. Install concrete or other suitable reinforcement to protect the level spreader from erosion and short-circuiting at the point immediately opposite the pond discharge pipe.
- c. The 0.0% grade level lip with discharge location will be slightly west of current low point (as constructed) to allow discharge a naturally slighter slope to reduce erosion.
- d. Level spreader elevation will be equal to top elevation of pond discharge pipe.

3. The design will be submitted to Knox County to be reviewed and treated as a design plan revision.
4. Garry and Darren agree the survey and design can be completed and submitted to Knox County by June 12. A copy of the design will be sent to me at this time.
5. Darren will commence work to implement the revised design plan as quickly as possible following Knox County approval and in consideration of weather conditions.

I have attached three files for reference. These are the typical design drawing for a level spreader (Figure 7-39), a clip of the approved site design plan at the level spreader location, and a photo of the level spreader as constructed and marked with the discussed outlet location.

Thank you all again for your time and consideration in this matter. Please do not hesitate to contact me if you have any questions about this summary.

Chris Granju, PE
Director of Research & Development

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