

May 05, 2015

4014 Flagstone Court  
Franklin, TN 37069

[www.docair.com](http://www.docair.com)

615-373-2498

[bwestbrook@docair.com](mailto:bwestbrook@docair.com)

[REDACTED]  
Nashville, TN 37211  
[REDACTED]

**Proposal for Storm Water Management – [REDACTED]**

Dear [REDACTED]

Here is the proposal we promised to resolve the Storm Water Management located at [REDACTED] in Nashville, Tennessee. Based on our site visit we propose the following improvements to your storm water management system at Ashton at Harding Apartments. The areas are numbered as separate components.

During our site visit, we identified the following conditions:

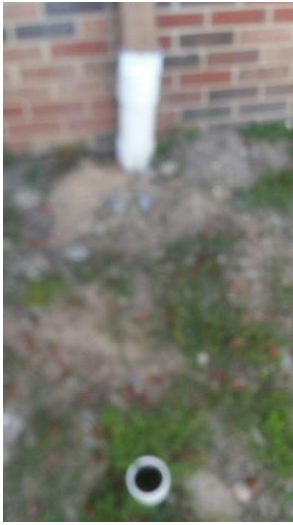
- There are low spots next to the foundation wall where water can pool and infiltrate into the crawl space.
- There are 3 down spouts that are not effectively routing storm water away from the foundation wall.
- A nearby retaining wall is not properly routing water away from the building.
- There is evidence of past water intrusion in the crawl space. This chronic intrusion of water can erode the bearing soils under the foundation over time.



Low spots next to foundation, only mulch is present



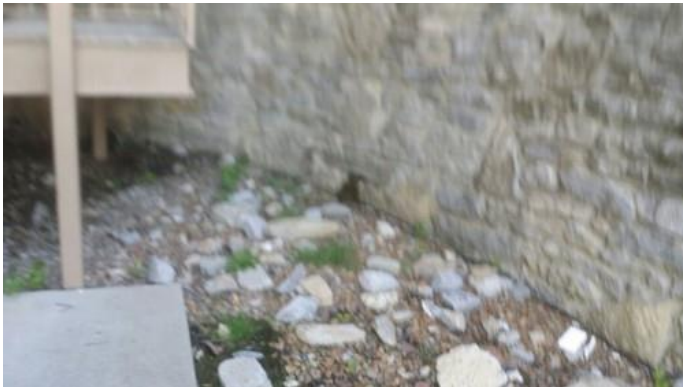
Low spot next to foundation



Problem downspout



PVC filled with water, needs percolator



Problem retaining wall



Nearby swale



Water intrusion in crawl space

**PROPOSAL**

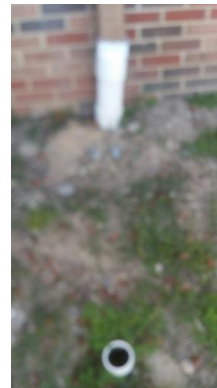
**Component 1 - Regrade along foundation and fix problem downspouts**

The topology of the area is unfavorable for this property. We propose to regrade along the external perimeter of the foundation, especially on the side adjacent to the hill, with heavily compacted dirt. This will prevent water from pooling alongside the foundation and infiltrating into the crawl space. Additionally, there are three downspouts which are not functioning properly and need to be repaired.

- Reconfigure the topography of the ground next to the foundation so it slopes away from the foundation wall.
- Seal the storm water intrusion points next to the property with compacted soil.
- Install our DownSpot™ drainage systems for 3 problem down spouts. We will construct the drains with 4 inch PVC and install them underground leading to percolators.



Reconfigure topography near foundation



Repair 3 existing down spouts



Typical Percolator

**The fee for this service is \$3,600.**

**Component 2 - Installation of Multi-flow near retaining wall**

We propose to install a Multi-flow system under the stairs and along the sidewalk down to the nearby swale. This will effectively divert the problem water that is escaping from the retaining wall and prevent it from contacting the building.

- Install Multi-flow underground adjacent to sidewalk near retaining wall, divert water to nearby swale approximately 100 feet away.



Excess water will be diverted with multi-flow



Water will discharge into swale



Typical Multi-flow installation

**The fee for this service is \$3,600.**

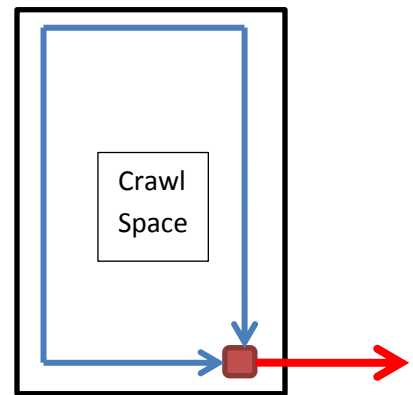
**Component 3 - Install sump pump and drainage line in crawl space**

The crawl space of the effected property is flooded with water. We propose installing a sump pump on the lowest point of the crawl space and connecting it to corrugated black piping spread along the perimeter of the foundation wall. This will effectively capture any water entering the crawl space and route it to the sump pump. The water will then discharge outside of the building into PVC piping buried underground and connected to a percolator.

- Install drainage pipe along perimeter of crawl space connected to sump pump.
- Install sump pump at lowest point in crawl space, discharge through foundation wall.
- Route water outside into underground PVC piping, terminating at percolator away from building.



Water intrusion in crawl space



Rough sketch of crawl space

**The fee for this service is \$3800.**

**Summary**

This proposed scope of work provides a comprehensive solution to the storm water management issues at this property. Thank you for the opportunity to submit this proposal. If you have questions or would like to commission the proposed task, please email us or contact us by phone and we will work to fit your schedule.

Sincerely,

[REDACTED]