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July 31, 2012

To: Hamilton County Drainage Board

Re: Williams Creek Drain, Illinois Street Assessment Area

Attached is a drain map, drainage shed map and schedule of assessments for maintenance for a portion of the Williams Creek Drain. This portion of the drain is located in Clay Township from future Illinois Street to Springmill Road.

I recommend that this area be assessed to Williams Creek Drain, since it drains through several arms of the Williams Creek Drain. This area drains directly through the Williams Creek Drain – Rosado Hill Arm, which became regulated drain per my revised report dated July 31, 2008 and approved by the Board at hearing on August 11, 2008 (See Hamilton County Drainage Board Minutes Book 11, Pages 257 to 259). The area also drains through the Williams Creek Drain – Cedar Point Extension, Williams Creek Drain – Parkwood West Arm, and Williams Creek Drain – Steck Extension, before crossing the county line at 96th Street.

The office has received many complaints on the Rosado Hill Arm, where it passes under Springmill Road, due to debris blocking the culverts and causing Springmill Road to flood. This was looked at as part of the Williams Creek Study and a fix is being determined with the City of Carmel.

The nature of maintenance work required on the regulated portion of the drain is as follows:

1. Clearing of trees and brush on the existing open drain as needed to improve flow;
2. Creation and re-excavation of silt basins;
3. Surface water structure as might be required;
4. Bank erosion protection and/or seeding as might be required;
5. Repair of private tile outlet ends as might be required;
6. Repair of regulated drain tile outlets;

7. Removal of beaver dams;
8. Removal of debris and/or blockage from regulated open ditch;
9. Spraying for vegetation control;
10. Mowing filter strips;
11. Any other repairs deemed to be applicable and necessary by the Surveyor to restore the drain to its original intended use and condition.

The frequency with which maintenance work should be performed is annually as required by the original condition of the drain.

I have reviewed the plans and drain map and believe, as set out in IC 36-9-27-69(b) (1) that all tracts within the drainage shed of the Williams Creek Drain will benefit. The following maintenance assessments have been adopted by the Board:

1. Maintenance assessment for roads and streets be set at \$10.00 per acre.
2. Maintenance assessment for agricultural tracts be set at \$3.00 per acre with a \$15.00 minimum.
3. Maintenance assessment for non-platted residential tracts be set at \$3.00 per acre with a \$15.00 minimum.
4. Maintenance assessment for commercial, institutional and multi-family residential tracts to be set at \$10.00 per acre with a \$75.00 minimum.
5. Maintenance assessment for platted lots in subdivisions whose drainage systems will not be part of the regulated drain (those systems maintained by the City of Westfield or City of Carmel) shall be set at \$35.00 per lot - \$35.00 minimum. Commons areas within subdivisions whose drainage systems will not be part of the regulated drain (those systems maintained by the City of Westfield or City of Carmel) shall be set at \$5.00 per acre with a \$35.00 minimum.
6. Maintenance assessment for platted lots within subdivisions whose drainage system will be part of the regulated drain shall be set at \$10.00 per acre with a \$65.00 minimum. Common areas within regulated drain subdivisions shall be set at \$10.00 per acre with a \$65.00 minimum.

The annual maintenance collection for this portion of the Williams Creek Drainage Shed will be \$576.26. Collections for the proposed assessment will begin in May 2013.

The above rates were established for the Williams Creek Drain per my report dated June 6, 2006. Hearing for this report was heard on August 28, 2006, at which time the Board approved the rates of assessment (See Hamilton County Drainage Board Minutes Book 9, Pages 410 to 411).

This drain has been classified as an urban drain under IC 36-9-27-67 per my report dated October 16, 1998.

Williams Creek has been identified in the NPDES Phase II General Permit Application, Storm Water Quality Management Plan Part C: Program Implementation Report, page 5, as a MS4 area receiving stream.

Williams Creek is listed in the NPDES Phase II General Permit Application Storm Water Quality Management Plan Part B: Baseline Characterization Report on the following pages:

Page 4 as an MS4 Area Receiving Stream

Page 7 as #05120201090060 Watershed within the MS4 Area with drainage size of 14,198.70 acres.

Page 16 as being in the IDEM 305(b) Report as being fully supportive of aquatic life and full body contact.

This drain is not listed on the 2010 303(d) list of impaired waters for Indiana. The Williams Creek Watershed Master Plan Study did have many samples that were above the Indiana Water Quality Standard for E. Coli.

Currently the open ditch is heavily overgrown and is in need of select clearing to remove trees that may end up in the ditch. The drain is susceptible to jams caused by debris which causes backwater and localized flooding. It is possible for large woody debris to collect on road crossings. This creates a threat to the bridge structure and can redirect flow causing erosion. This drain has had a large beaver population. The drain also have may high banks and poor soils, which can lead to bank sloughing and channel migration, which endangers properties along the ditch channel.

I recommend that the Board set a hearing for this proposed maintenance for October 22, 2012.

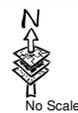
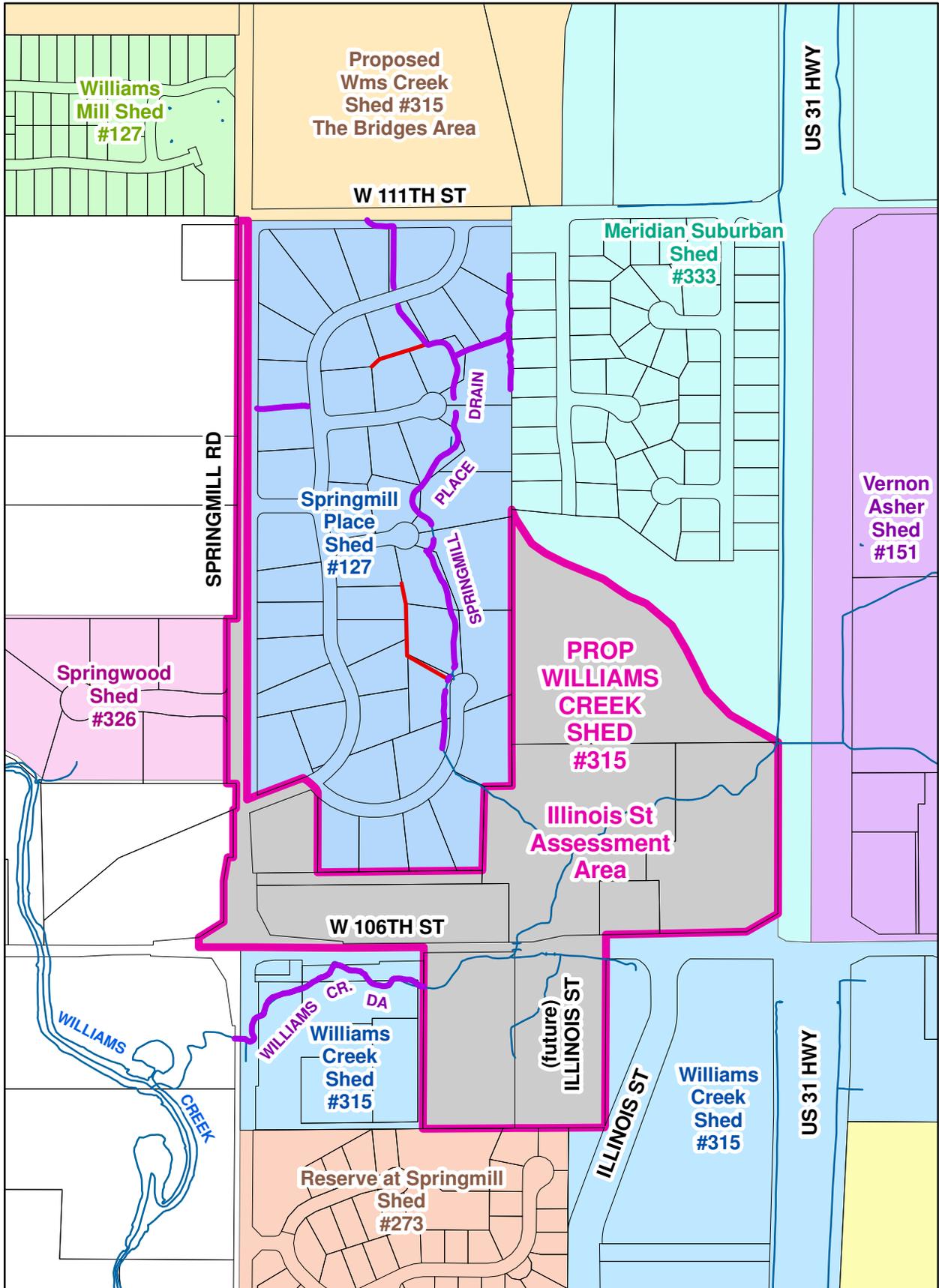
Sincerely,



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

PROPOSED WILLIAMS CREEK SHED #315 Illinois St Assessment Area



Proposed Williams Creek Shed #315 - Illinois St Assessment Area Roads

Road_Name	Shed	Entity	Type	Area_Ac	Area_Ac_X3
W 106TH ST	WILLIAMS CREEK #315	CARMEL	MAJOR ROAD	0.81	2.43
ILLINOIS ST	WILLIAMS CREEK #315	CARMEL	MAJOR ROAD	5.21	15.63
N SPRINGMILL RD	WILLIAMS CREEK #315	CARMEL	MAJOR ROAD	3.43	10.29
PIKES SPRING MILL HGHTS SEC 1	WILLIAMS CREEK #315	CARMEL	SUBDIVISION ROAD	0.28	0.84

Surveyor's Report Set for August Hearing.

Surveyor's Report for 8-13-12 Request for September Hearing.

Surveyor's Report Pending, Assessment Being
Determined for October Hearing Request.

Surveyor's Report Pending, Assessment Being
Determined for November Hearing Request.

Surveyor's Report in Progress for January Hearing Request.

Assessed to Williams Creek as of 7-23-12.

Williams Creek Overall Shed Area

Regulated Drain Shed Area

Subdivision Shed Area

