



# Rolling Greens Subdivision



September 3, 2014

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# Rolling Greens

6:30 - 6:40	Introductions and Purpose of meeting	Randy Monteith
6:40 - 6:50	Initial findings by Thrasher Engineering	Steve Hamit
6:50 - 7:00	Work to date by City staff	Paul Oberdorfer
7:00 - 7:15	Short term work to be done	Paul Pickett
7:15 - 7:25	Long term work to be done	Paul Pickett
7:25 - 7:35	Other potential improvements	Wayne Wiethe
7:35 - 7:45	Q & A	Randy Monteith

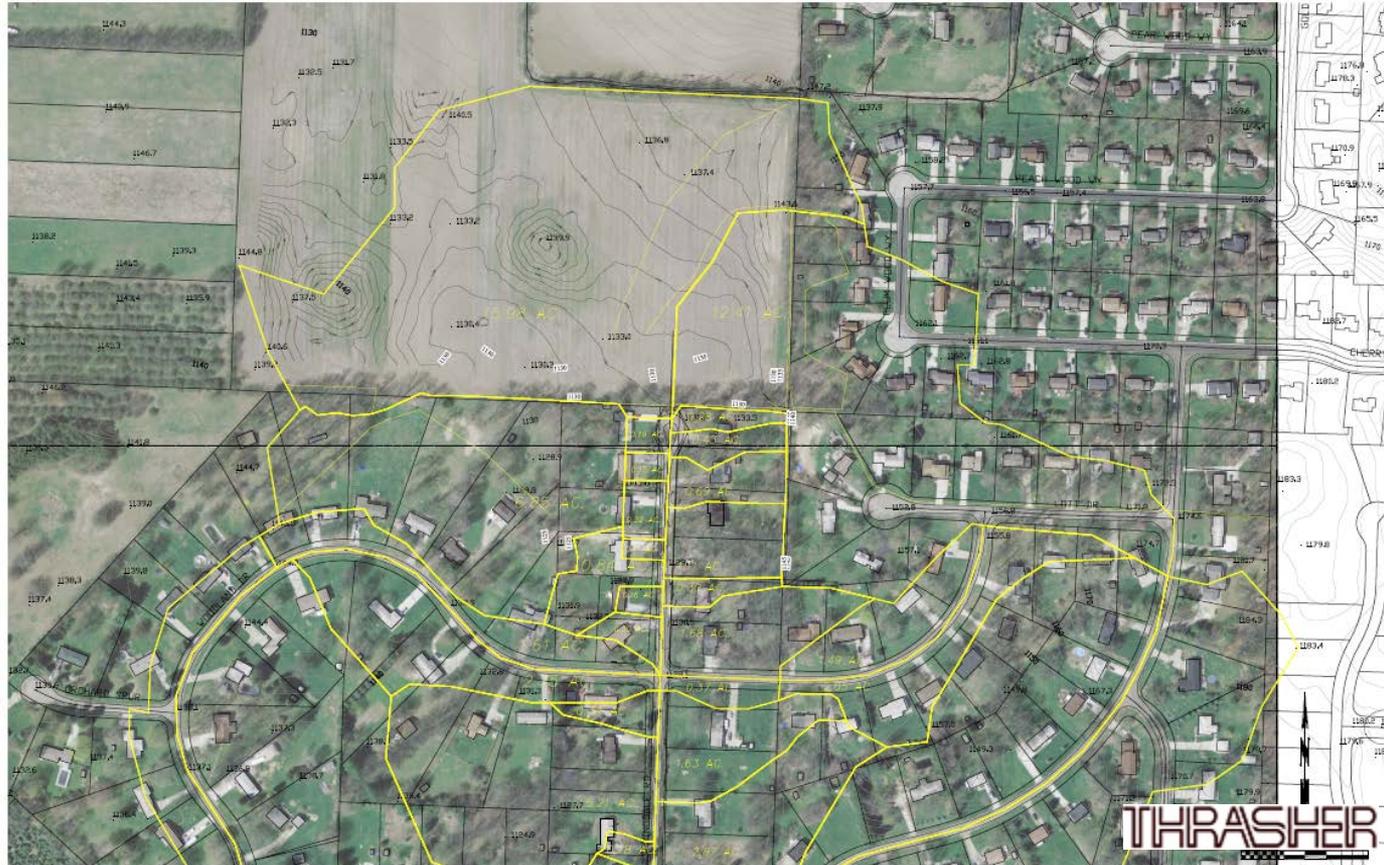


# Rolling Greens- Initial Findings

- Water Shed Characteristics
  - Amount of storm water runoff & sources
- Springdale Ave. Characteristics
  - General Road Slope
  - Drainage System
  - Existing Catch basins are not optimum
  - Very little or no storage



# Rolling Green- Initial Findings



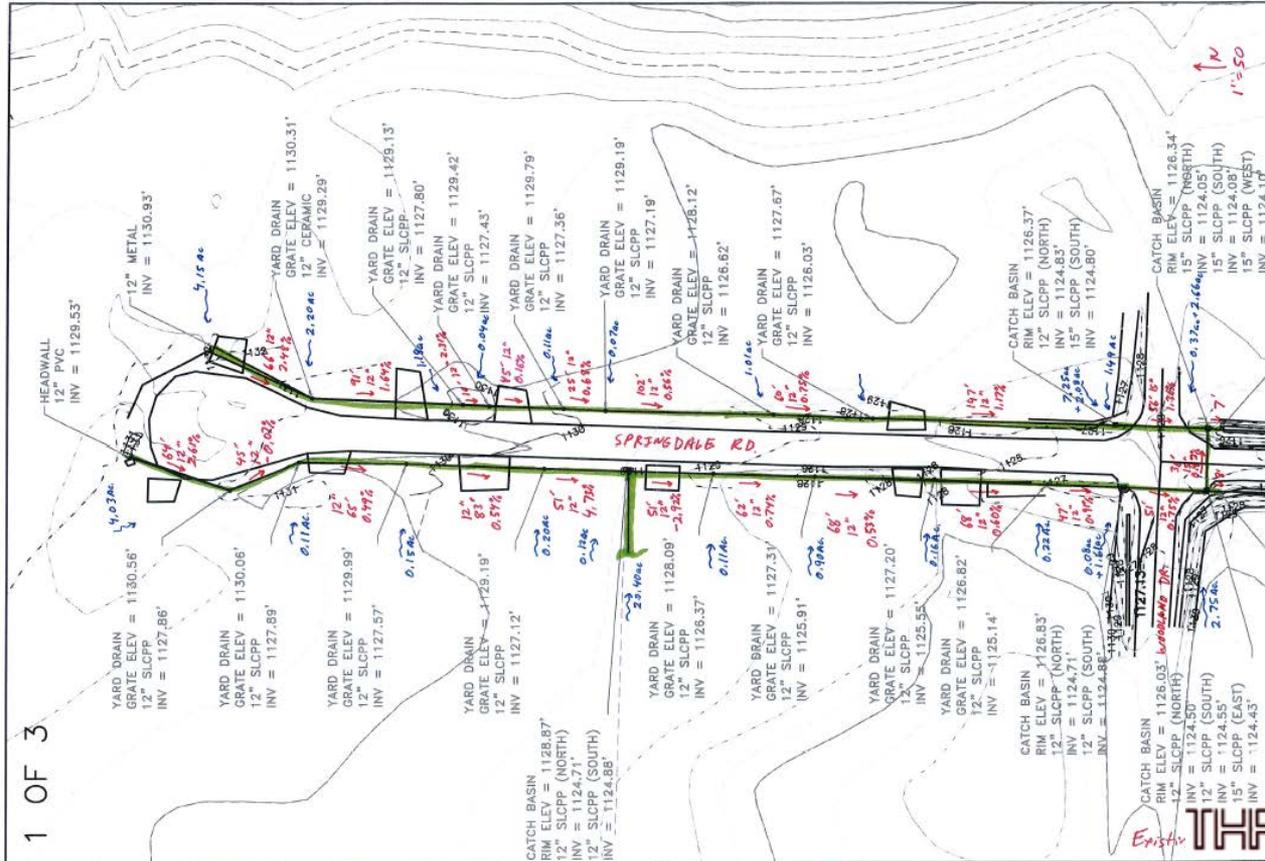


# Rolling Greens- Initial Findings





# Rolling Greens- Initial Findings



- Storm Sewer System
  - 12 to 15"
  - Semi Split system
  - Houses are even with the street
  - Back yards have low spots and Trap water
  - Non uniform slopes of the pipes.

1 OF 3

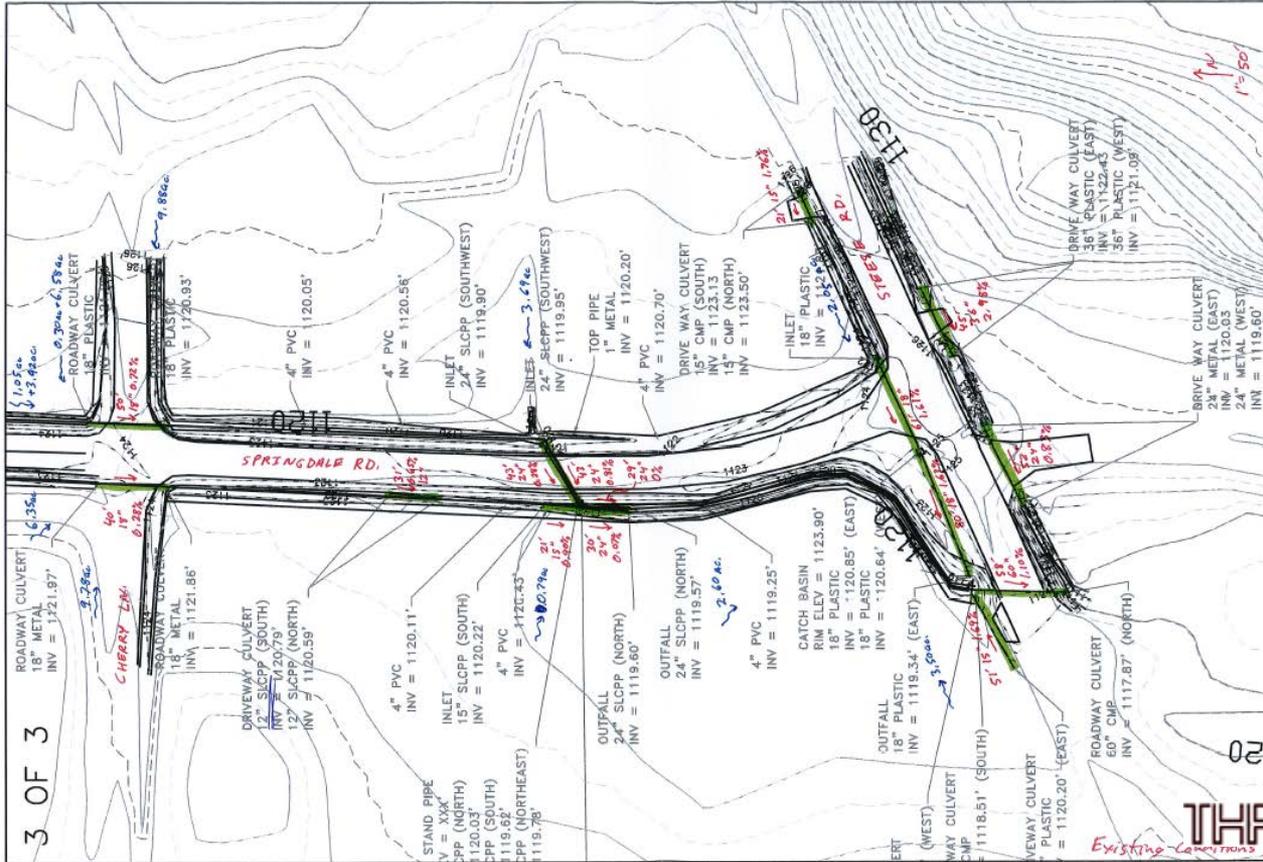
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# Rolling Green- Initial Findings



- Storm Sewer System
  - 15" with twin 24"
  - Open Ditch
  - No longer a split system
  - Hydraulic flow is not optimum
  - Non uniform slopes of the pipes.



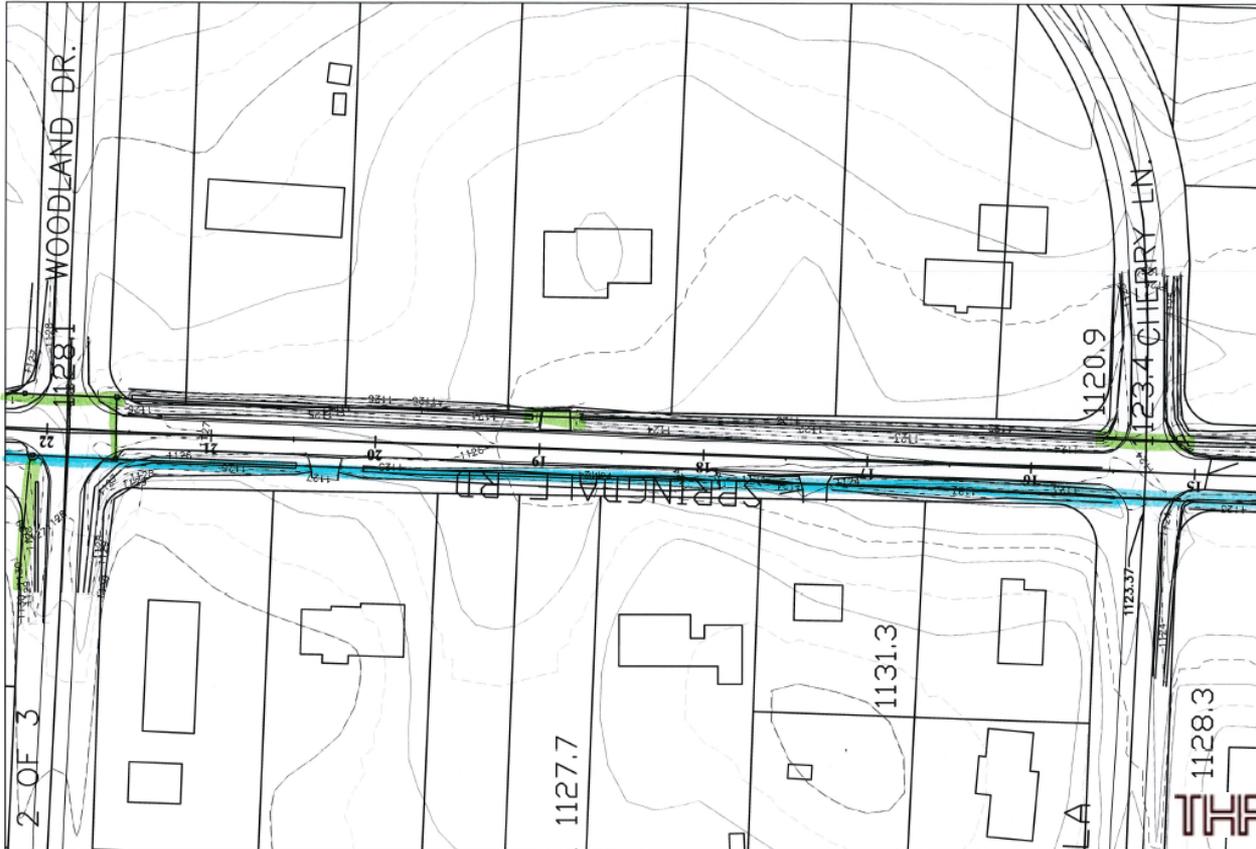
# Rolling Greens- Short Term Relief



- Storm Sewer System
  - 18" pipe to be installed with uniform slope.
  - Creating a split system
  - Current 12" capacity
    - 2.18 cfs
  - Capacity of new 18"
    - 4.99 cfs
  - Leave east side system in place



# Rolling Greens- Short Term Relief

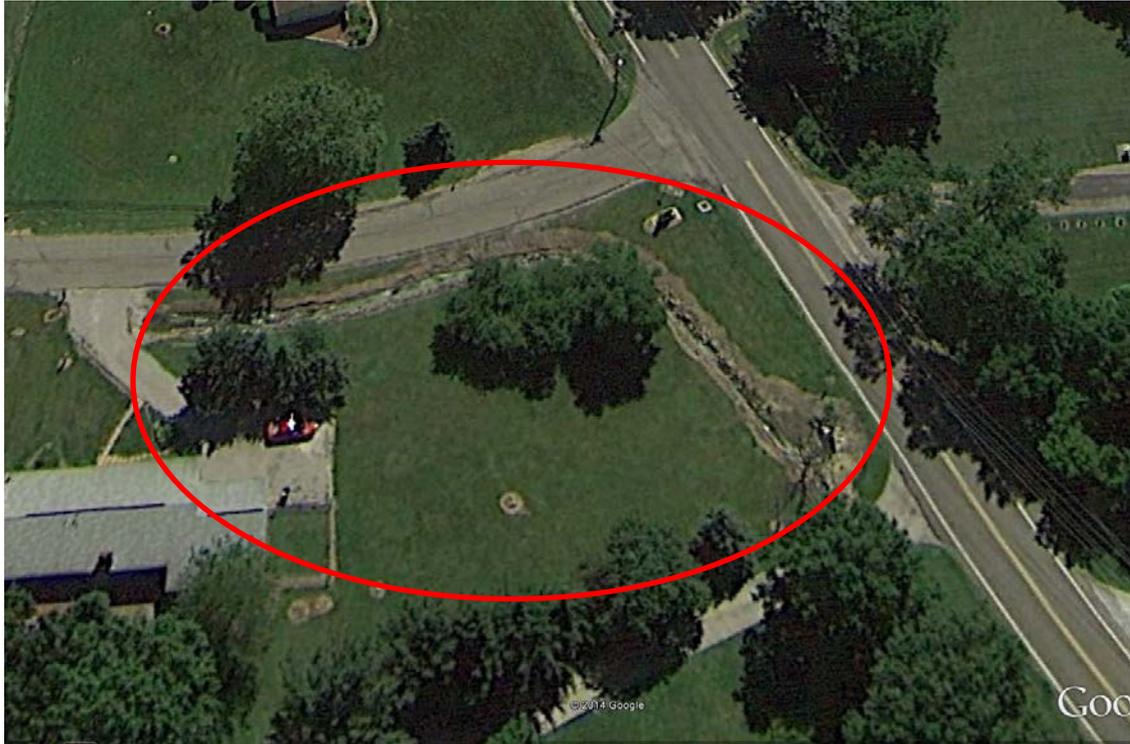


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# Rolling Greens- Short Term Relief



- Storm Sewer System
  - Ditch Cleaning
  - Ditch Alignment
  - Remove Debris
  - Improve Capacity



# Rolling Greens- Short Term Relief



## Storm Sewer System

- Ditch Cleaning
- Ditch Alignment
- Remove Debris
- Improve Capacity



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# Rolling Greens- Short Term Relief



- Storm Sewer System
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# Rolling Greens- Short Term Relief



- Storm Sewer System
  - Extend 12" Pipe
  - Pipe Flushing
  - Add Catch Basin
  - Catch and divert flow



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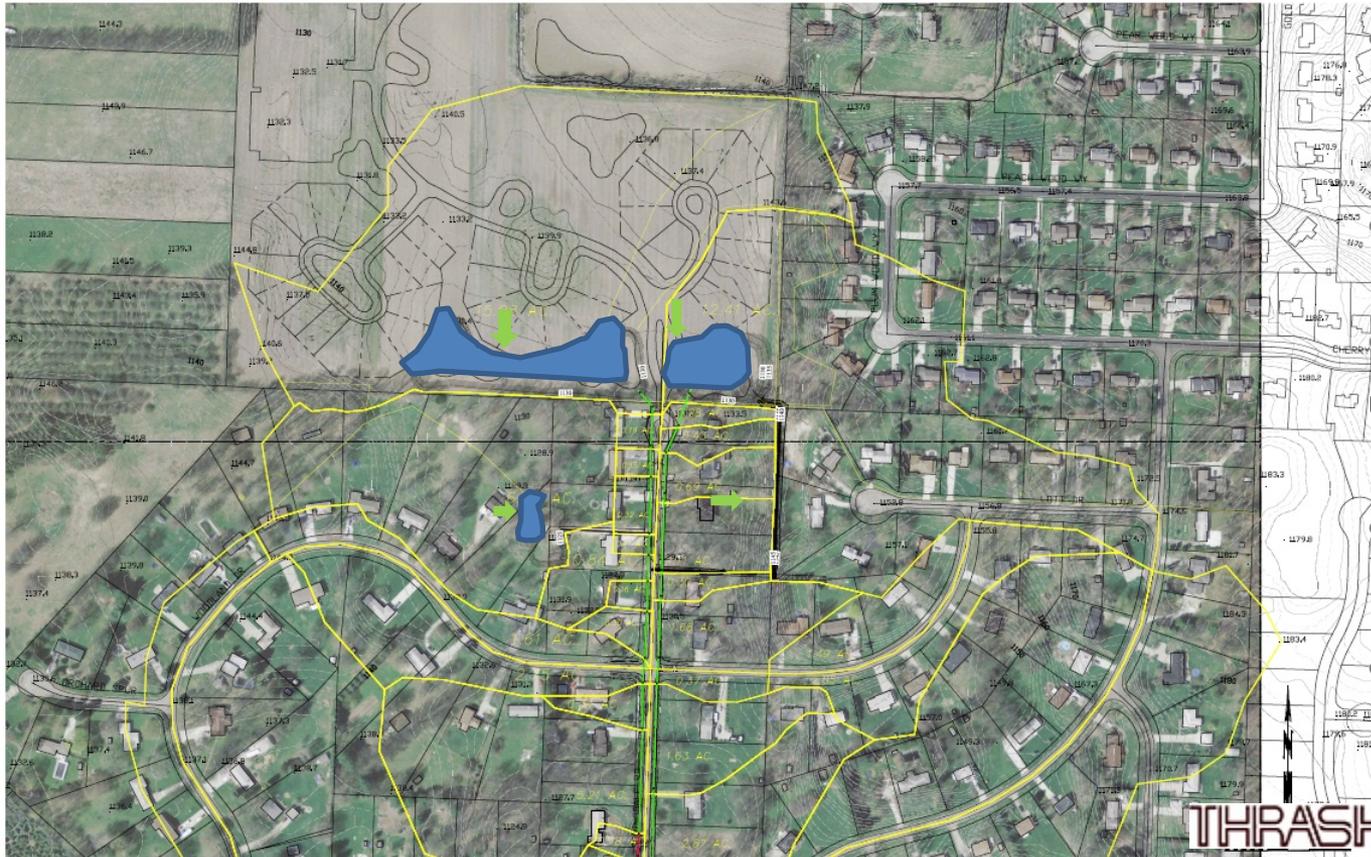
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# Rolling Greens- Long Term Work to be Done



- Install storm sewer that has the capacity.

- Green
  - 24" or less

- Inlets in proper locations to catch runoff

- Divert flow to Storm Basins

- Use topography to store water.

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# Rolling Greens- Long Term Work to be Done



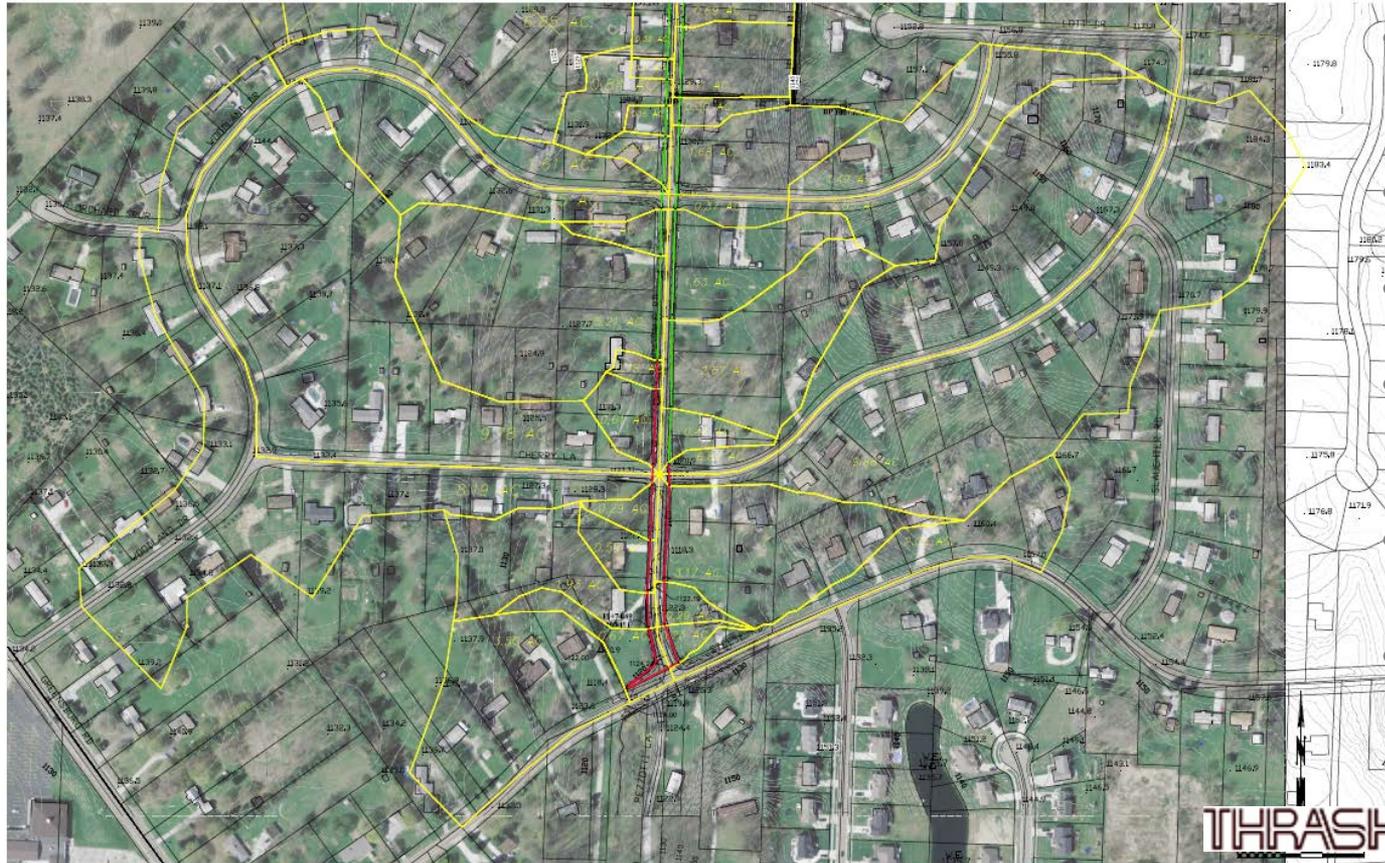
Pond	Storm Event (year)	$Q_{out}$ (cfs)	Peak Elev. (ft.)
Pond 3 (West of Springdale Rd.)	2	0.94	1124.76
	5	1.19	1125.42
	10	1.38	1126.01
	25	1.62	1126.87
	50	4.40	1127.26
	100	4.76	1127.84

Pond	Storm Event (year)	PRECONSTRUCTION		POSTCONSTRUCTION	
		$Q_{out}$ (cfs)	Peak Elev. (ft.)	$Q_{out}$ (cfs)	Peak Elev. (ft.)
West Pond	2	2.10	1127.28	2.72	1127.64
	5	2.76	1127.67	3.35	1128.09
	10	3.25	1128.02	3.76	1128.47
	25	4.04	1128.53	9.28	1128.86
	50	8.92	1128.83	10.86	1129.23
	100	10.75	1129.19	11.72	1129.67

Pond	Storm Event (year)	PRECONSTRUCTION		POSTCONSTRUCTION	
		$Q_{out}$ (cfs)	Peak Elev. (ft.)	$Q_{out}$ (cfs)	Peak Elev. (ft.)
East Pond	2	0.93	1127.42	0.96	1127.56
	5	1.17	1128.10	1.20	1128.20
	10	1.35	1128.67	1.38	1128.78
	25	1.59	1129.54	1.62	1129.66
	50	1.77	1130.29	1.80	1130.42
	100	3.59	1130.86	4.30	1130.90



# Rolling Greens- Long Term Work to be Done



- Install storm sewer that has the capacity.

- Green
  - 24" or less

- Red
  - Larger than 24"

- Inlets in proper locations to catch runoff

- Divert flow to Storm Basins

- Use topography to store water.



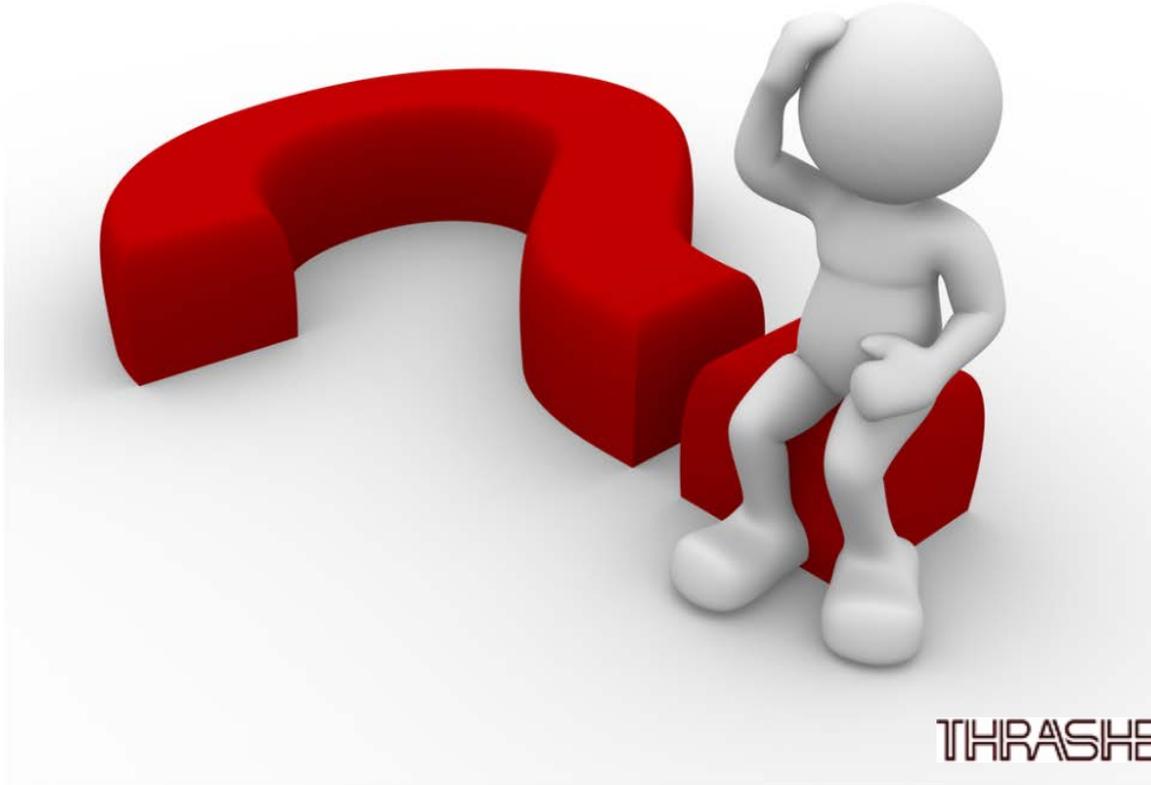


# Rolling Greens- Other Potential Options

- Open for discussion.
- New Road
  - Curb and Gutter
  - Under drains
  - Side walk
- Utilities
  - Sanitary Sewer
  - Water Lines
- Inlets in proper locations to catch runoff
- Divert flow to Storm Basins
- Use topography to store water.



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