Hawks Landing Storm Sewer Improvements PUBLIC INFORMATIONAL MEETING MAY 28, 2019

Tonight's Topics

Hawks Landing Overview: Where the Water Goes

- Existing Conditions: Where We Are Today
- Pond EC-1: the Golf Course Fix
- Proposed Solutions: South and North
- Results of Improvements
- Schedule Going Forward

Hawks Landing Overview where the water goes







Design Standards

Design storm: 100-yr, 24-hr event

Defined by precipitation depth and intensity-duration curve

- Precipitation depth: NOAA Atlas 14, Vol. 8 (2013)
 - Period of record: through 2010
 - In Dane County, 100-yr depth = 6.66"

Intensity-duration curve: MSE 4 distribution (NRCS, 2014/2015)

August 20, 2018: 11.6" in 16 hrs (UW West Madison Agricultural Research Station)

>1000-yr event

Existing Conditions WHERE WE ARE TODAY

South Existing Conditions (Modeled)



Existing Conditions – Hidden Hill Dr and Shady Point Dr



100-yr Flood Depths Hidden Hill Dr. at Shady Point Dr.

North Existing Conditions (Modeled)





100-year Rainfall Event: 6.66" Map 3 Northern Existing Conditions Hill Creek Drive Flood Reduction Study

> City of Madison Dane County, WI

Pond EC-1 The GOLF COURSE FIX (FALL 2018)

EC-1 – "Golf Course Fix"



EC-1 – "Golf Course Fix"





Proposed Solutions SOUTH AND NORTH

Proposed Solution (South)



Proposed Channel (North)





Results of Improvements THE ENDGAME

South Existing Conditions



South Proposed Conditions



Existing Conditions – Hidden Hill Dr and Shady Point Dr



100-yr Flood Depths Hidden Hill Dr. at Shady Point Dr.

Proposed Conditions – Hidden Hill Dr at Shady Point Dr



100-yr Flood Depths Hidden Hill Dr. at Shady Point Dr.

North Existing Conditions



6.66"



Map 3 **Northern Existing Conditions** Hill Creek Drive Flood Reduction Study

> City of Madison Dane County, WI

North Proposed Conditions

No street flooding aside from water between inlets

Hydraulic grade line remains below the street surface for 100-yr event

South Project Schedule

- Project approved by City of Madison Board of Public Works on May 22, 2019
- Will go to Common Council on June 4, 2019 for approval
- Project will be bid on June 6, 2019
- Bids received and opened on June 20, 2019
- Final Common Council approval of bid will occur July 16, 2019
- Construction can begin in mid-August 2019

Land Acquisition Schedule

Southern property (south of Shady Point Dr)

- Relocation order process will begin at Common Council on June 11, 2019, with final approval by Council on July 16, 2019
- Appraisal will begin on June 11, run in parallel with relocation order process
- Southern ditch will be completed in late 2019 or 2020
- New 4'x8' concrete box culvert will be cross-connected with existing 43"x68" HERCP until ditch is complete
- Other property (north and south)
 - Relocation order process will begin at Common Council on August 6, 2019, with final approval by Council on September 3, 2019
 - Property acquisition will take 6-9 months
 - Construction will likely occur in late 2020

Hawks Landing Maintenance Agreement

- New Hawks Landing Maintenance Agreement for stormwater infrastructure in Hawks Landing Golf Course
 - Drafted by City of Madison and Jeff Haen
- Approved by Board of Public Works on May 22, 2019
- Common Council will consider on June 4, 2019
- Goal: signed by City of Madison and Jeff Haen by the end of June 2019
- New agreement an improvement over existing agreement for City, golf course and residents