



Agenda Memo

Crest Hill, IL

Meeting Date: June 29, 2026
Submitter: Ronald J Wiedeman
Department: Engineering
Agenda Item: Jasmine Ditch Drainage Investigation Update.

Summary: See attached Memorandum from Christopher B. Burke Engineering, Ltd (CBBEL) for an update on the engineering work to investigate potential causes of flooding along the Jasmine Ditch for east of Gaylord to its outfall at the farm field west of Jasmine Drive.

The following work has been completed to date.

- Completed a field survey and reviewed findings to determine if silting or filling of the channel has occurred that would affect the capacity of the channel.
- Completed a field reconnaissance on June 8th after a storm event to review how the channel performed.
 - Noted heavy vegetation which could have a minimal impact on impeding flow was observed, but no blockages or pipes or culverts that could significantly impact the capacity of the channel were noted.
- Completed a stormwater preliminary modeling on Jasmine Ditch. This preliminary model used the data provided from the topographic survey of the size, slope and shape of the channel and it showed that the existing ditch should have sufficient capacity to handle the flow of water that is anticipated to reach this ditch for the different storm events.

Therefore, based on the initial investigation, the flooding that occurs east of Gaylord appears to be unrelated to the Jasmine Ditch. It has been noted that some large upstream drainage area to the northeast that drains to the ditch. This drainage reaches the Jasmine ditch through a r that collects drainage from areas north and west of Plainfield Rd. This storm sewer should be reviewed to see if has the adequate capacity to convey and contain the storm water flow or in need of maintenance.

Recommended Next Steps

- The City should televise the existing 53”x 24” storm sewer that is upstream of Gaylord Rd to verify if this section of storm sewer is functioning as designed. Public Works is currently reaching out to Contractors to have this work performed and results of its finding should be available in the next couple of weeks.
- Remove the tall vegetation that has grown throughout the ditch from Gaylord to the Farm field at the west end.
- Depending on the finding of the televising of the upstream 53”x 24” storm sewer.
 - Authorize a more extensive modeling effort that would look outside the immediately boundary of the Jasmine Ditch to see how much actual flow reaches this ditch.
 - The modeling did show that the two culverts under Jasmine Drive are more restrictive than the capacity of the channel. This could be the cause of the backup and additional study should be completed on the capacity of these two culverts.

Recommended Council Action: N/A, at this time.

Financial Impact:

Funding Source: General Fund

Budgeted Amount: \$575,000.00

Cost: TBD

Attachments:

M. Wiedeman Preliminary Investigation_20260615

Jasmine Ditch Exhibit.