



**AGENDA
CITY OF CREVE COEUR
STORMWATER COMMITTEE
300 N NEW BALLAS – MEETING ROOM #2
JANUARY 24, 2024 - 4:45 PM**

I. CALL TO ORDER

II. ROLL CALL

III. APPROVAL OF AGENDA

IV. APPROVAL OF MINUTES

1. October 11, 2023 Minutes (Draft)

V. UNFINISHED BUSINESS

2. Cost-Share Program Update

VI. NEW BUSINESS

3. Projects moving to the Engineering Design Phase
4. Subcommittee for the Stormwater Management Cost-Share Program

VII. BUSINESS FROM STAFF

5. Stormwater Committee Meeting Schedule for 2024
6. Project Updates

VIII. COMMENTS FROM THE GENERAL PUBLIC

IX. NEXT MEETING DATE

X. ADJOURNMENT

Posted by: _____

Date/Time posted: _____

If you need special accommodations to attend a meeting, services may be arranged by contacting the Office of the City Administrator in advance.



DRAFT MINUTES
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I. CALL TO ORDER

The meeting was called to order at 4:49PM.

II. ROLL CALL

Committee Members in attendance:

Committee Chair Dick Kutta

Committee Vice Chair Bernard Feldman

Committee Member Samantha Davies

Committee Member Mary Helen Gerst

Committee Member Bryan Pearl

Committee Member Kathleen Rizzo

Others Present: City Council Liaison Tim Carney, Director of Public Works Jim Heines, Assistant Director of Public Works/City Engineer Steven Berecz, Civil Engineer Dione Garson, and Administrative Services Associate Margaret Ries.

III. APPROVAL OF AGENDA

A motion to approve the agenda was made by Bryan Pearl, and seconded by Bernard Feldman. All were in favor. The Motion passed.

RESULT: Agenda Approval

MOVER: Pearl

SECONDER: Feldman

AYES: Richard Kutta, Bernard Feldman, Samantha Davies, Mary Helen Gerst, Bryan Pearl, Kathleen Rizzo

NAYS: None

IV. APPROVAL OF MINUTES

1. Minutes - August 16, 2023 (DRAFT)

A motion was made by Kathleen Rizzo to approve the August 16, 2023 minutes and seconded by Bernard Feldman. All were in favor. The motion passed.

RESULT: Approval of August 16, 2023 Minutes

MOVER: Rizzo

SECONDER: Feldman

AYES: Richard Kutta, Bernard Feldman, Samantha Davies, Mary Helen Gerst, Bryan Pearl, Kathleen Rizzo

NAYS: None



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V. UNFINISHED BUSINESS

2. Cost-Share Program Update

The cost-share program was approved by City Council to become a program. The program will have \$60,000 funded for the pilot year. The amount for the category for subdivisions upped to \$40,000 total, funding two projects up to \$20,000 each. The individual homeowner's category remains with the total of \$20,000, funding 5 projects up to \$4,000 each. City staff hopes to have the website and applications live within a week. The deadline for applications is January 11, 2024. At the next meeting, the committee and staff can discuss members who would like to form a subcommittee to review and score the applications with staff. The information about the cost-share program will be sent out to residents via social media, City website, and the newsletter. It could also be discussed during coffee with the Mayor. At the council meeting where the program was approved, City Council Representative Joe Martinich requested that the committee discussed possible options for subdivisions that are unable to afford the upfront cost of a project. The committee will discuss it later on, once the pilot phase of the program has begun to determine what options there may be.

VI. NEW BUSINESS

3. Impervious Surface Requirements

Richard Kutta asked the committee to discuss impervious surface requirements. University City has been working on adding impervious surface requirements and Richard brought copies of what they are considering to the committee. Dick asked what is in City ordinances regarding impervious surface requirements. City of Creve Coeur Chapter 425 has Stormwater Regulations. It applies to all land disturbance and residential permits for all: new homes, swimming pools, and detached garages. Any site improvement or building addition with a temporary or permanent land disturbance of 2,000 square feet or more. Exemption of Chapter 425 are building permits for entirely interior work; lots less than 1/4 acre; planting, trimming, pruning, or removal of trees, shrubs, grass, weeds, vegetation, ground cover, or other plant materials when actions are part of maintenance. The rule considers all phases of a project. There can be no change for neighbors to the 15 - year, 20 minute event. No adverse effects means that proposed changes will not change the volume, direction, velocity, or intensity of



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stormwater runoff for adjoining properties for the design storm. Design storm is the 15 - year rainfall intensity for duration of 20 minutes. Calculations use table 4-2 of MSD regulations. The more impervious area added, the more detention will be required. Dick asked if in regards to runoff driveways are not considered? Jim Heines replied that the City of Creve Coeur only has a permit for the ROW portion of the driveway. Dick asked the committee to think about what has been discussed and if they would like to investigate it further or determine if changes need to be made. Ordinance review is included in the Watershed Management Plan's scope of work. City staff will share with Tim Dean from Intuition & Logic to look at the ordinance review for driveways and to consider impervious surface requirements.

VII. BUSINESS FROM STAFF

Dione Garson asked the committee to consider what will the City's policy be for projects in the flood plain? Will the City fund floodproofing projects in the flood plain? What about erosion control to protect individual homes in the flood plain? Should the City fund stream bank protection and stabilization projects in the floodplain? Dione suggested to discuss this in a future meeting. She suggested having a City policy regarding what the City would and would not do in the flood plain. It may take several meetings to determine what to recommend. It will be helpful to use the costs from Intuition & Logic to determine what type of policy the committee may want to recommend.

4. Stormwater Management Plan - Open House #3

The third open house for the Stormwater Management Plan was well attended. Ten people signed the attendance sheet. However, there were close to 20 people that attended. Intuition & Logic staff (IL) met with residents. The EDM subcontractor was there as well to answer questions about the write-ups. All information from the open house is on the City website under the stormwater tab under open house #3. Open House #4 is expected to be sometime in the winter, either later November or early December. EDM and IL are developing costs to plug into the ranking system to the the values. The only sites that go through the cost-estimate are the sites that were determined public. There are 130 sites that will be going through the scoring process. The last step will be the ranking of all the projects. IL will be using the most cost effective solution in determining the cost of each project. The final report is expected around the same time as developing the CIP in order to draft the projected projects.



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5. Project Updates

Dione Garson presented updates on the current stormwater projects.

Alden Lane: There were issues with unknown abandoned Missouri American Water pipe. Previously the abandoned pipe was identified, not the active pipe. The active pipe will be relocated tentatively on Monday, October 16, 2023. Work will continue as soon as the pipe is relocated.

Dielman Rec Center: Construction has begun and is expected to be completed by mid-November. Work includes: installing two trench drains to manage flows in the east parking lot and near the golf cart garage, installing pipe and new manholes to convey parking lot flows to an existing manhole, and gutter and roof work on the west side of the building.

S New Ballas and Tarrytown: Revising JSPs to include residents' request for site restoration, bid documents should be ready to advertise within the next few weeks. Construction will likely begin after the winter holidays. The police department has agreed to use drones for pre and post construction photos to be able to see progress throughout the whole project.

City's site restoration policy: City staff proposed the City develop a policy for site restoration. At the start of easement discussions, residents will have a clear understanding of what the City will and will not do for site restoration. A clear policy will help ensure more equality and a sense of fairness among homeowners. Dione asked the committee to take a look at the draft memo by the next meeting.

Hibler Road Drainage Improvements: Revised plan set back from HRGreen. City staff will review after Tarrytown, Alden Lane, and Dielmann Recreation Center projects require less attention.

VIII. COMMENTS FROM THE GENERAL PUBLIC

Residents, Margie & Ralph Wasielewski reside at 13105 Dartagnan. They presented photos to the committee regarding an incision on their property. They stated that they have been impressed with Intuition and Logic and their transparency. They have heard varying things regarding their property. They would like to know when their project will be done. They heard it was on the next batch to be done. Mr. & Mrs. Wasielewski asked, "when do you project that to be taking place?". Dione Garson wanted to clarify that their property is not on the next batch of projects to be in the CIP. They are on the list of projects that Intuition and Logic (I&L) and EDM evaluated first, their evaluation will



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determine if it is public or private, their property is a public project, then they will score it and associate a cost with it which will give a final value and that value will be compared to other projects. There is absolutely no guarantee, that because their address was evaluated early, that you will be in the next CIP. We want to have a procedure for evaluating sites by a third party so that everybody in the City across the City knows that everybody's sites are being evaluated by the same criteria and has the exact equal chance of becoming a CIP project or not based on the risk and benefit and the cost. Ralph wanted to make sure that they are on the list. Jim Heines replied you are on the list of projects to be scored. Mr. Wasielewski wanted to make sure there was a consideration for safety on the point scale. Jim Heines replied that the scoring rubric accounts for safety. Mr. Wasielewski wanted to ensure that his property is scored correctly because the stormwater issue at their property impacts other properties as well. Jim Heines replied that there is a factor for other properties impacted when scoring. Bernard Feldman added that once all the properties are scored it will be reported, presented, and available to the public. Mrs. Wasielewski asked if public projects took priority over private. Jim Heines replied that there are 130 projects deemed as public projects. In addition, there are 40 projects that are private projects. The City will not fund the 40 projects that are private projects. However, those 40 private projects could apply for the cost-share program. Of the 130 public projects, Mr. & Mrs. Wasielewski's property is one of those public projects. Mrs. Wasielewski asked when will we know the ranking? Jim Heines replied that the rankings and scores will be presented at the next open house. City staff will publish the date to encourage residents to attend. City staff are anticipating the next open house will be at the end of November or early December. Mrs. Wasielewski asked once a project is ranked when it will take place? Jim Heines replied that stormwater is slow. The design phase could take a year before getting into the construction phase. It could be two years before a project is under construction. Mrs. Wasielewski asked "If we are at the bottom of the list. Is there any recourse?". She stated that Tim Dean from I&L eluded that their property was at the top. Jim Heines stated that we have not started ranking yet. Jim Heines wanted to clarify that their property was one of 7 conceptual sites that was evaluated early, not on the list to promote design. The ranking is still being put together and will be presented at the next open house. They are finalizing the cost to benefit ratio. Of the seven sites that were evaluated early, those remaining projects that are not escalated to the design phase will roll back into the management plan to be ranked with the rest of the projects. Mrs. Wasielewski asked if there was an appeal process. That has not been discussed yet. There is not an appeal process at this time. One has not been done with the committee. It would have to be discussed with the committee. Sam Davies stated that



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there were a lot of streams and other properties that had similar incisions to their property and the number of properties with similar incisions stood out to her. Bernard Feldman stated that residents are always welcome to the committee meetings and always welcome to speak and the committee will listen to their concerns. He assured Mr. & Mrs. Wasielewski that the committee is trying to be as fair as possible.

6. Gary & Diane Gannon - 13006 Ambois Dr

Gary & Diane Gannon who reside at 13006 sent information to the committee for review that was attached to the agenda packet.

IX. NEXT MEETING DATE

X. ADJOURNMENT

A motion was made by Sam Davies to adjourn the meeting, and seconded by Kathy Rizzo. All were in favor. The motion passed. The meeting adjourned at 6:18PM.

RESULT: Adjournment

MOVER: Davies

SECONDER: Rizzo

AYES: Richard Kutta, Bernard Feldman, Samantha Davies, Mary Helen Gerst, Bryan Pearl, Kathleen Rizzo

NAYS: None



DEPARTMENT OF PUBLIC WORKS STAFF MEMORANDUM

DATE: January 23, 2023

SUBJECT: Possible Stormwater Projects for the Remainder of FY2024 and FY2025

The Watershed Management Plan (WMP) is a planning tool that will help City staff, the Stormwater Committee, and the City Council make informed, engineering-based decisions about projects for the City's five-year Capital Improvement Plan (CIP). The following pages show City Staff's recommendations for programming projects into the CIP for the remainder of FY2024 and FY2025.

The proposed projects have among the highest Priority Ranking System scores. In making CIP planning decisions, scores are a starting point – not the sole or final determining factor. As a well-rounded plan, the WMP is an engineering-based decision-making tool that purposely encourages decision makers to go beyond the numbers and consider factors such as:

- Desires of the community
- Quality of life
- Public good
- Availability of grant funding
- Coordination with other City projects
- Other budget or scheduling considerations

City Staff is proposing four projects for engineering design phase in FY2024 and construction in FY2025. Each of these projects will be designed to solve a structural flooding issue. In the Priority Ranking System, structural flooding issues have associated high risk scores. Beyond the actual risk scores, City Staff believes that most residents could agree that structural flooding issues are a serious health and safety issue worthy of public funding and, as result, can reasonably be one of the Stormwater Program's top priorities.

In FY2024, one project is proposed for each Ward. Each of these projects is proposed to go into construction in FY2025. With this programming, residents can see that meaningful stormwater projects are being done across the City.

The tables on the following pages show the proposed projects for the remainder of FY2024 and FY2025. Purple indicates engineering design phase, and green indicates construction phase. Estimated costs are based on the conceptual solutions used for determining Priority Ranking System scores. Actual costs and engineering solution may change as projects move through the formal engineering design process. In the tables, the City has also included information that may affect scheduling and could, therefore, be a consideration for CIP programming.

City Staff believes estimated engineering costs may be high and, as a result, is showing more projects in FY2024 than the estimated costs suggest may fit within the remaining budget. Additionally, the estimated revenue from the half-percent Parks and Stormwater Tax are not yet available. Based on initial estimates of revenue, it is likely that more Parks and Stormwater funds will be available for the FY2025-FY2029 CIP than under the FY2023-FY2028 CIP.

After the table, you will find the one-page descriptions of stormwater issues and proposed conceptual design solutions that were presented to residents at Open Houses 3 and 4 and posted on the City's website.

Proposed Stormwater Program Planning for the remainder of FY2024 and FY2025

FY2024 Current or Completed Projects	Awarded Construction Contract Amount	Approximate Completion Date	Ward
South New Ballas Road -- Tarrytown Drive Creek Stabilization	\$281,643	7/3/24	Ward 2
Hibler Road Drainage Improvements	\$481,489	6/17/2024	Ward 3

FY2024 Remaining Projects	Cost	Score	Construction Fiscal Year	Scheduling restrictions	MSD permit	404	Easements	Livestakes & tree clearing	Ward	Structural flooding	Public Safety
DC-S-03 Woodbridge Manor (Design)	\$53,900	6.83	2025	Depends if riparian trees need to be removed	Likely	The detention area includes a USGS-identified waterway (dashed line)	Homeowners are willing to sign	Not likely	Ward 2	Yes	Yes
CC-S-07 Mason Forest Drive (Design)	\$61,300	4.69	2025	No foreseen limits	Yes	No	Yes	Not likely	Ward 3	Yes	Yes
CC-S-04 Fernway Lane (Design) New name Fernpark Drive (1032 Fernpark Drive)	\$60,300	2.07	2025	No foreseen limits	Yes	No	Yes	Not likely	Ward 4	Yes	No
DC-S-26 Warson Square (Design) Should be Warrington Square and Sundown Square	\$71,200	1.44	2025	No foreseen limits	Yes	No	Yes	No	Ward 1	Yes	No
Total Estimated Costs / Score	\$246,700										
Available Budget	\$150,000	15.03									
Difference	(\$96,700)										

FY2025 Projects	Cost	Score	Construction Fiscal Year	Scheduling restrictions	MSD permit	404	Easements	Livestakes & tree clearing	Ward	Structural flooding	Public Safety
11 Lake Dredging - Conway Park & Golf Course Phase 1 (Design & Construction)	\$450,000								Ward 2 & 3		
DC-S-03 Woodbridge Manor (Construction)	\$8,300										
CC-S-07 Mason Forest Drive (Construction)	\$12,100										
CC-S-04 Fernway Lane (Construction)	\$55,400										
DC-S-26 Warson Square (Construction)	\$235,300										
DC-C-02 Beaver Drive Crossing (Design)	\$173,600	1.41	2026	Riparian tree removal	Yes	Yes	Yes	Yes	Ward 1	No	Yes
DC-S-17 Sona Lane (Design)	\$108,000	2.13	2026	No foreseen limits	Yes	No	Yes	No	Ward 1	Yes	No
CC-S-09 252 Belington Lane (Design) 252 Bellington Lane	\$51,900	1.29	2025	No foreseen limits	Yes	No	Yes	No	Ward 3	Yes	No
CC-S-09 252 Belington Lane (Construction)	\$10,000										
Cost-Share	\$60,000										
Total Estimated Costs / Score	\$1,164,600	4.83									
Budget	\$1,000,000										
Difference	(\$164,600)										

Project DC-2: Woodbridge Manor

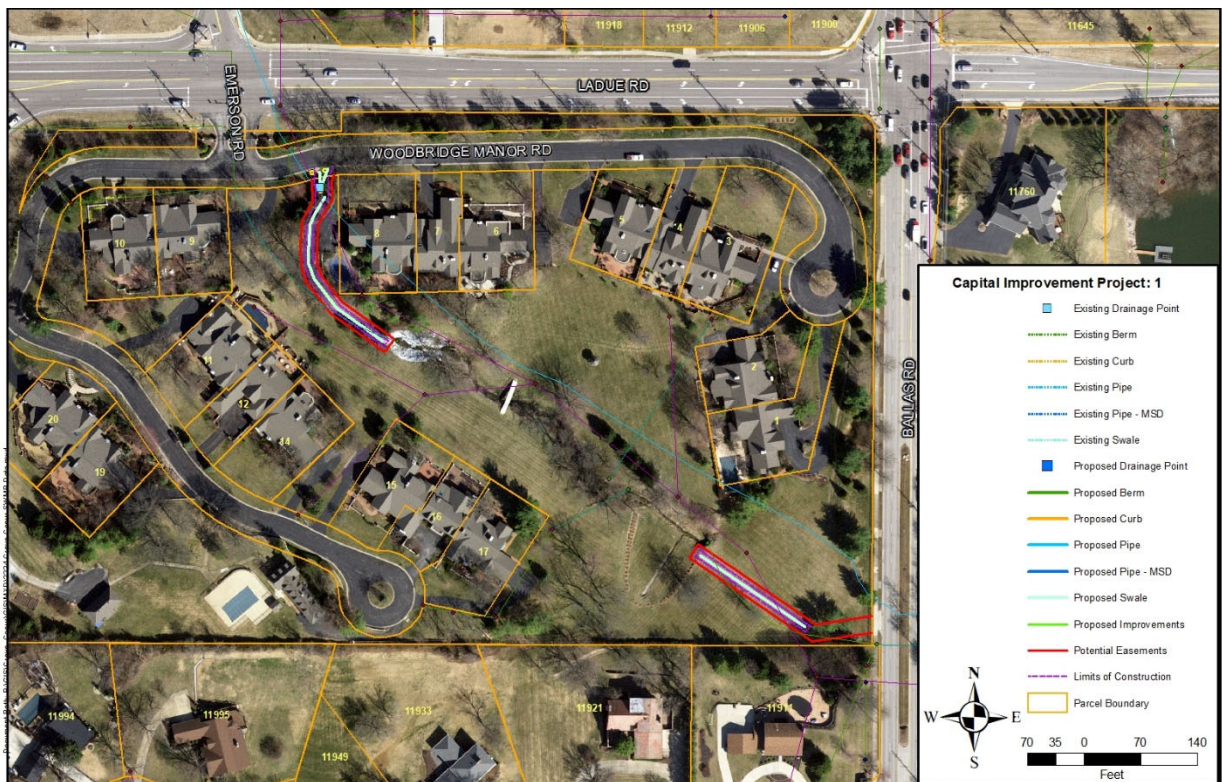
Problem description: Street and structural flooding at 8 Woodbridge Manor Road.

Recommendation: Provide 100-yr overland flow path off of street and around the west side of the driveway for #8 and from the detention area to South New Ballas Road.

Special Considerations: Hydraulic analysis of the storm system and detention area between Ladue Road and South New Ballas Road is needed to confirm adequate system capacity. The drainage area is approximately 170 acres at Woodbridge Manor Road with an estimated 380 cfs for the 15-yr 20 min storm. The overland flow path over South New Ballas Road should also be evaluated.



Overflow path near #8



Conceptual Layout of DC-2

Project CC-26: Mason Forest

Problem description: Yard flooding at #12574 Mason Forest Drive and #416 Hibler Woods Court due to yard grading and adjacent runoff. Street and structural flooding at #12602 Mason Forest Drive which may be partially due to flow bypassing inlets.

Recommendation: Construct swale in the rear of #12574 and install a manhole with a slotted cover over the existing storm sewer. Open all four sides of inlet 17P3-011D. Modify other inlets as needed to minimize bypass and increase inlet capacity.



Inlet 17P3-011D

Special Considerations: Hydraulic analysis of storm sewer system is needed that accounts for potential bypass at inlets and inlet capacity. Analysis should include culvert at Hibler Road and the open channel on #21614 Mason Forest Drive. Initial analysis shows adequate capacity of 36" pipe at #21614.



Conceptual Layout of CC-26

Project CC-7: Fernway

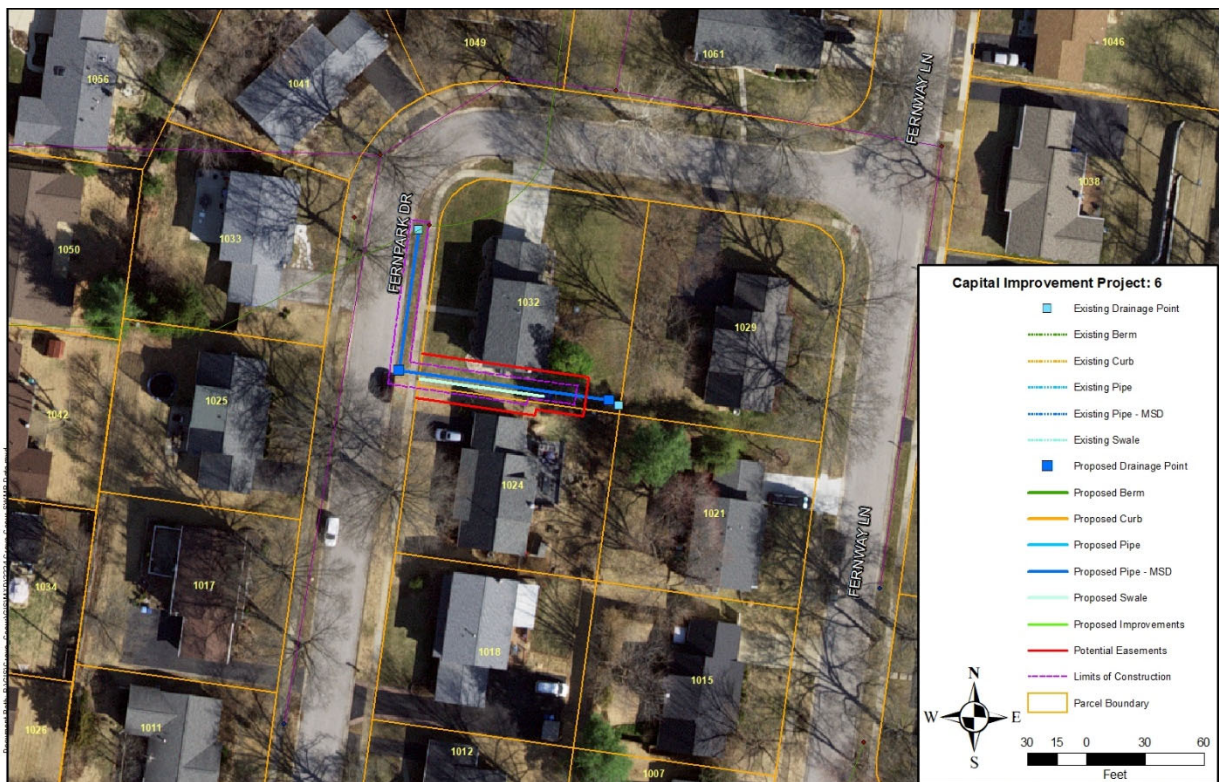
Problem description: Yard and basement flooding at #1032 Fernpark Drive.

Recommendation: Construct yard drain at southwest corner of property to collect flow from adjacent property. Pipe to street and construct curb inlet and pipe to existing inlet (16P4-017D) to the north. Construct a swale along the south side of the house.

Special Considerations: Owner recently installed french drain system along south side of house. Monitor situation to see if this has solved the issue.



South side of house looking east



Conceptual Layout of CC-7

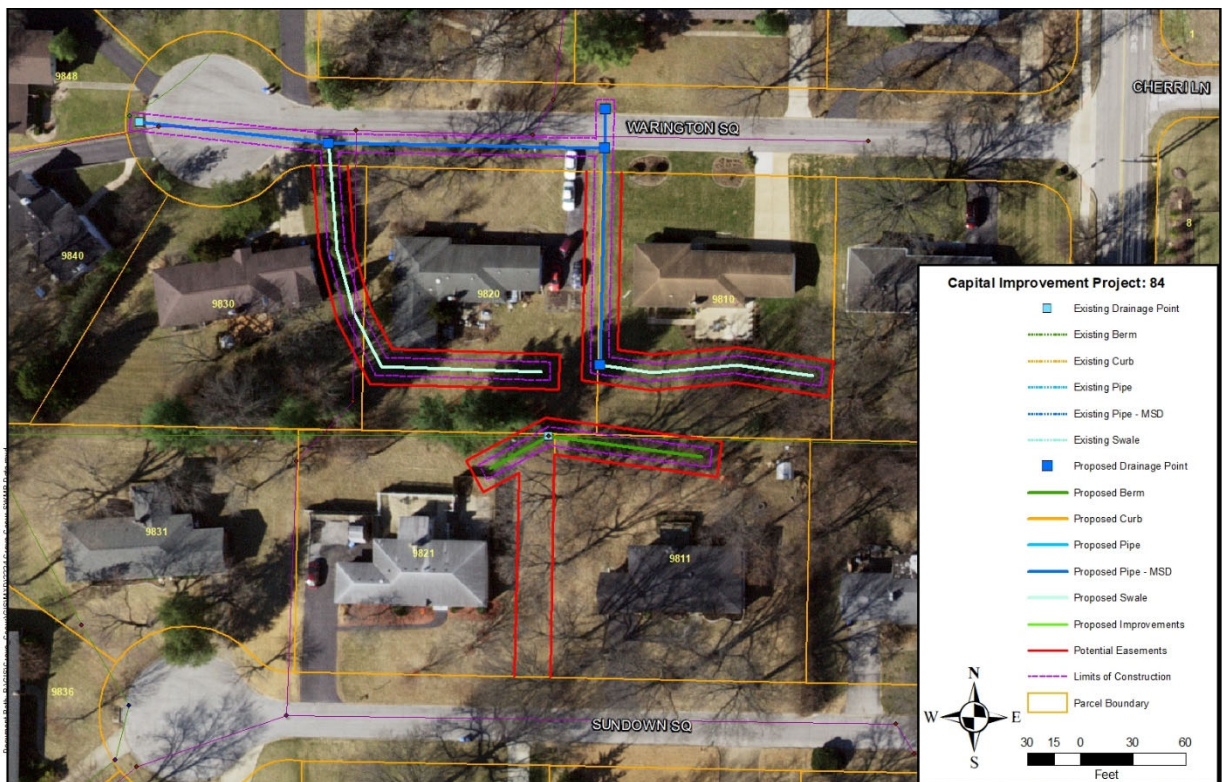
Project DC-27: Warson Square

Problem description: Yard and structural flooding of properties on south side of Warington Square.

Recommendation: Construct berm w/ swale to inlet 17M3-069D on #9811 and #9821 Sundown Square. Construct swale across #9810 Warington Square to a 2 grate inlet w/ side intake at the west property line then pipe to street and install 2 grate inlet w/ side intake on each side of street then pipe to existing inlet 17M3-080D with a curb inlet that is open on the back side in front of #9830 Warington Square to take flow from a swale along the east side of the house to and across the rear yard of #9820 Warington Square.



Looking east at #9810 Warington
"Square"



Conceptual Layout of DC-27

Project DC-25: Beaver Drive Crossing

Problem Description: The downstream end of the Pebble Creek culvert under Beaver Drive has rusted out and the culvert is undermined. The road above the culvert is cracking and there is a limited amount of cover over the pipe. A portion of the gabion walls along the left descending bank downstream of the culvert have rusted out and are failing. Structural flooding at #27 Beaver Drive and erosion at #41 Beaver Drive. Although the street is private, it has been maintained by the City.



Downstream end of culvert

Recommendation: Remove and replace the culvert with a two stage culvert to maintain sediment continuity. Raise the road section to provide additional cover over the pipes. Install a grade control structure downstream of the culvert. Remove the gabion walls and stabilize the left descending bank. Construct MSD area inlet to replace existing inlet in the northwest corner of #27 pipe to an inlet at a low point above the wall at the west end of the driveway. Construct a swale with a berm from the end of the driveway at #25 to the new inlet and wrap the berm around the inlet. Pipe down the driveway to a 2 grate inlet or manhole at the east end of the driveway then down Beaver Drive to a 2 grate inlet w/ side intake at the southeast corner of the intersection then pipe to the channel downstream of the culvert. Extend the curb near this inlet along the south side of the street to the end of the cul-de-sac. Construct a curb on the north side of the street from the culvert to the driveway at #45 and the along the entire west side of the driveway.

Special Considerations: A berm instead of a curb along the driveway at #45 may be a viable alternative. This work should be considered to occur with the replacement of the culvert at #45.



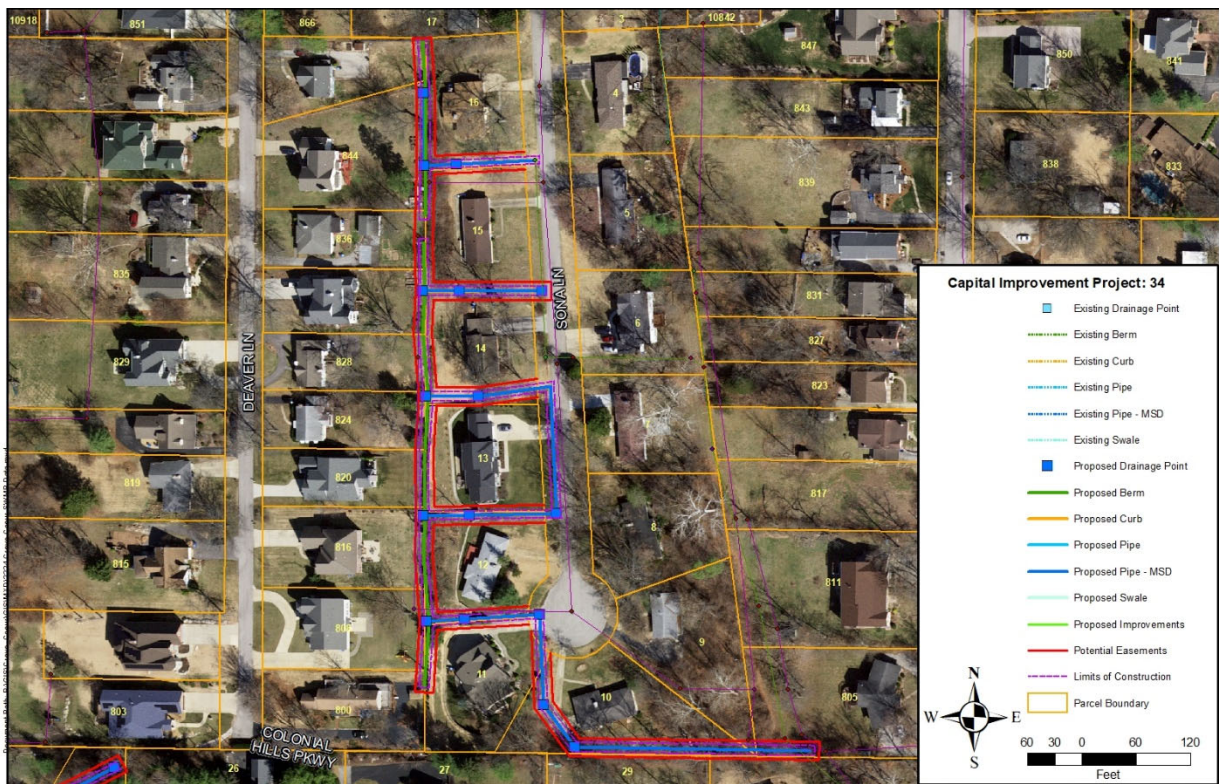
Conceptual Layout of DC-25

Project DC-4: Sona Lane

Problem description: Structural flooding and yard erosion of homes on the east side of Sona Lane due to runoff from properties on west side of Deaver Lane.

Recommendation: Construct berm with swale along top of the slope along the rear property line with inlets at the side property line of each lot on Sona Lane pipe to Sona Lane a manhole at the base of the hill will be necessary to accommodate the grade change.

Special Considerations: #12 Sona Lane reports that they did not have an issue until new houses on Deaver Lane were constructed and said they could handle the water that falls on the hill side. An alternate solution would be to pipe all the downspouts of each home on the east side Deaver Lane to a storm system on Deaver Lane and require any new homes to do the same.



Conceptual Layout of DC-4

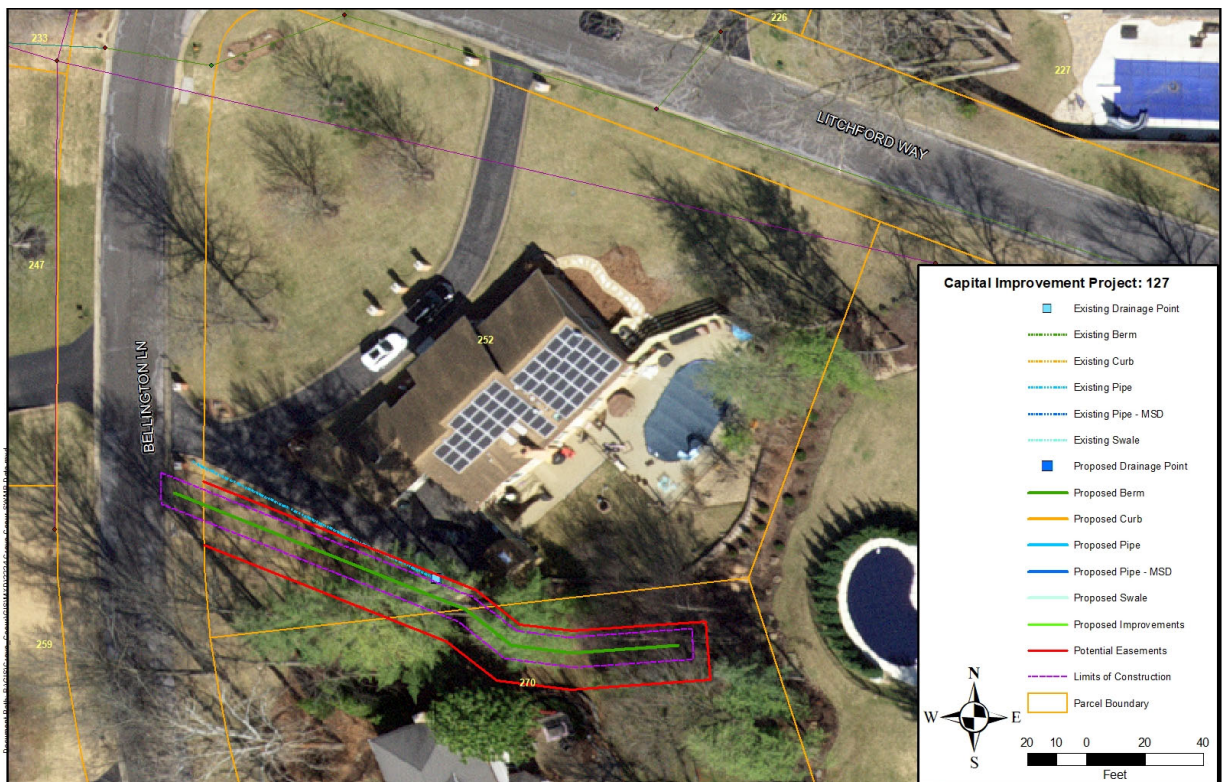
Project CC-12: 252 Bellington Lane

Problem description: Yard and basement flooding at #252 Bellington Lane due to flow from uphill properties.

Recommendation: Construct a berm and swale with underdrain to intercept the flow from the south and direct it to the street to the west. Swap out an existing inlet grate with a dome inlet grate to minimize clogging.



Existing inlet



Conceptual Layout of CC-12