

Stormwater Committee Meeting

July 10, 2024



Project Updates



Capital Improvement Program – Stormwater Projects

- A draft of the Capital Improvement Program (CIP) was presented to the City Council at a work session on March 11th
- Public Hearing before the City Council on April 8, 2024
- The full plan is on the City's website under:
 - Home
 - Government
 - Departments
 - Public Works
 - Capital Improvement Program

Stormwater Program Budget

9509 STORMWATER	FY2025 PROJECTED	FY2026 PROJECTED	FY2027 PROJECTED	FY2028 PROJECTED	FY2029 PROJECTED
11 Lake Dredging - Conway Park & Golf Course	450,000		300,000		
12 Millennium Park Detention Emergency Repair					
13 Stormwater Management Cost-Share Program	120,000	60,000	60,000	60,000	60,000
14 Woodbridge Manor & Mason Forest Drive	190,000	-			
15 Fernpark Drive & Warington Square	427,000	-			
16 Beaver Drive Crossing (Deer Creek OMCI)	174,000	345,000			
17 Sona Lane (Deer Creek OMCI) & Bellington Lane	160,000	445,000			
18 Stormwater Projects from Watershed Management Plan			885,000	810,000	600,000
19 Deer Creek OMCI Construction Projects				500,000	200,000
20 Various Projects - University City (OMCI)		160,000			
21 Drain Replacements - West Rue De La Banque & Bellerive Manor	70,000				
22 Grant Funding Consultant Research for Stormwater Projects	25,000				
23 Video Inspection Ballas storm sewer (Olive to Conway) Video of Roadway Culvert	75,000				
Subtotal (Stormwater)	1,691,000	1,010,000	1,245,000	1,370,000	860,000
% of Total Parks and Stormwater Fund Outlay	38%	57%	56%	31%	33%

Engineering Design

- Conway Park Lake Dredging
- Beaver Drive Crossing
- Sona Lane Stormwater Management
- Packaged with the goal of realizing schedule and costs efficiencies:
 - Woodbridge Manor
 - Mason Forest Drive
 - Fernpark Drive
 - Warrington Square
 - Bellington Lane

Conway Lake Park Dredging

I&L has been awarded the contract for engineering design services

- At the June 24th meeting, City Council approved the contract for the not-to-exceed amount of \$40,510
- CIP budgeted \$450,000 for FY2025 for design + construction
- Notice to proceed has been issued
- Survey is in progress
- Final plans should be ready in December 2024
- Project is anticipated to be bid early in 2025

Beaver Drive Crossing

Reitz & Jens, Inc. has been awarded the contract for engineering design services, phase 1

- At the June 24th meeting, City Council approved the contract for the not-to-exceed amount of \$81,000
- CIP budgeted:
 - FY2025 = \$174,000 for design
 - FY2026 = \$345,000 for construction
- Notice to proceed has been issued
- Survey is in progress

Beaver Drive Crossing

Problem

- Roadway culvert is at risk of failure
- Gabion walls are in poor condition
- Structural flooding & erosion

Conceptual Solution

- Replace the failing culvert
- Install grade control & stabilize stream banks
- Construct swale, berm, inlets & pipe



Sona Lane Stormwater Management

Bax Engineering is developing a scope and estimated costs

- Scope and costs due to the City by July 30, 2024
- Goal is to be ready to request City Council approval at the August 26, 2024 meeting
- CIP budgeted:
 - FY2025 = \$160,000 for design
 - FY2026 = \$445,000 for construction

Sona Lane

Problem

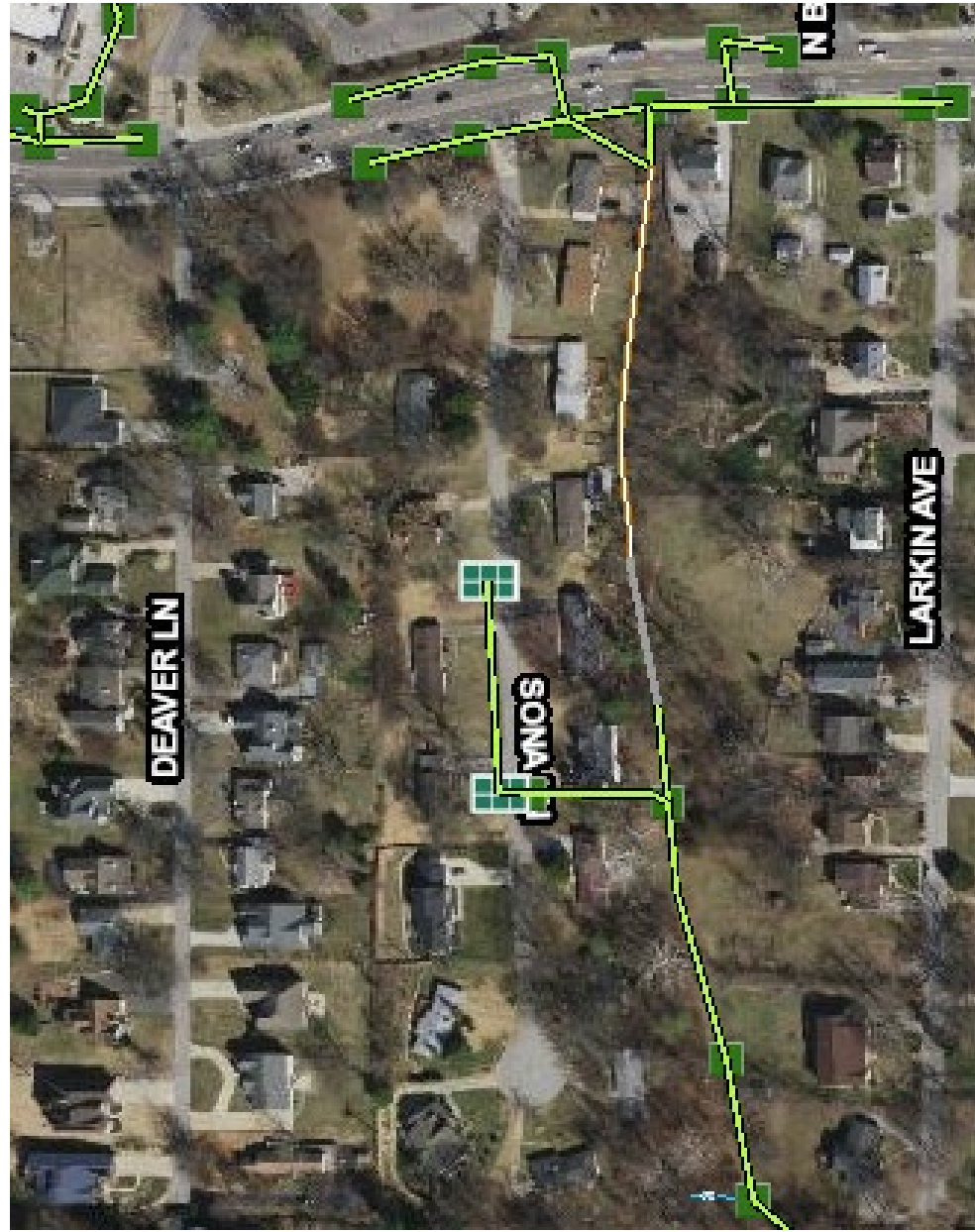
Structural flooding & yard erosion

Conceptual Solution

- Construct swale, berm, inlets & pipe
- Connect to the existing system



Sona Lane existing stormwater system



Package of Five Projects

The following projects are being packaged with the intent of benefiting from schedule and costs efficiencies:

- Woodbridge Manor
 - Mason Forest Drive
 - Fernpark Drive
 - Warrington Square
 - Bellington Lane
- CIP budgeted a total of \$627,000 in FY2025 for design + construction
 - The City will be talking with TREKK Design Group next week

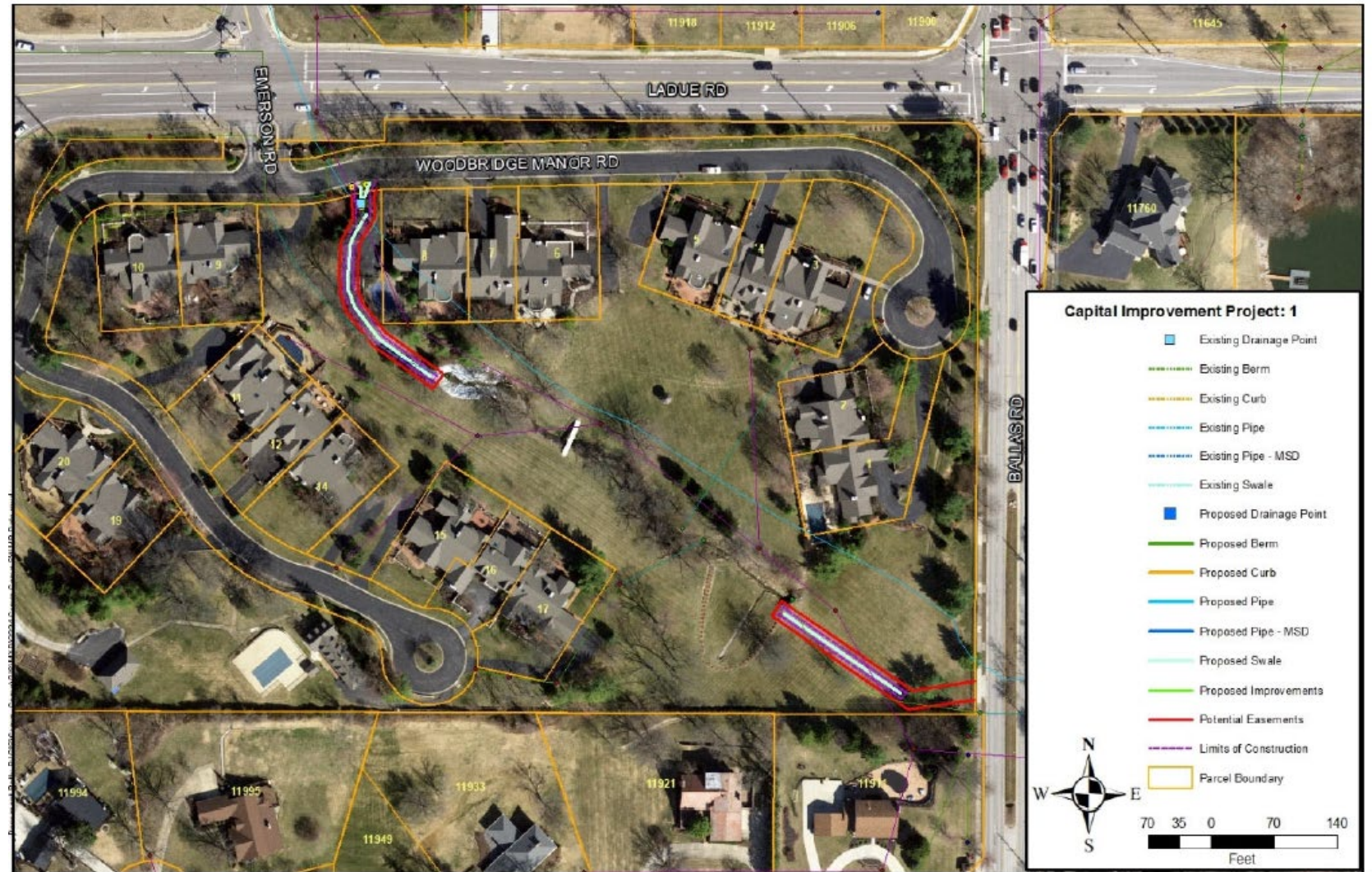
Woodbridge Manor

Problem

Roadway and structural flooding

Conceptual Solution

- Determine if the storm system is adequately sized
- Berms to direct flows to the basin



Mason Forest Drive

Problem

Roadway, structural & yard flooding

Conceptual Solution

- Construct a swale
- Modify existing inlets



Fernpark Drive

Problem

Structural & yard flooding

Conceptual Solution

- Pipe flows to the roadway
- Install a curb inlet and pipe that connects to the existing system



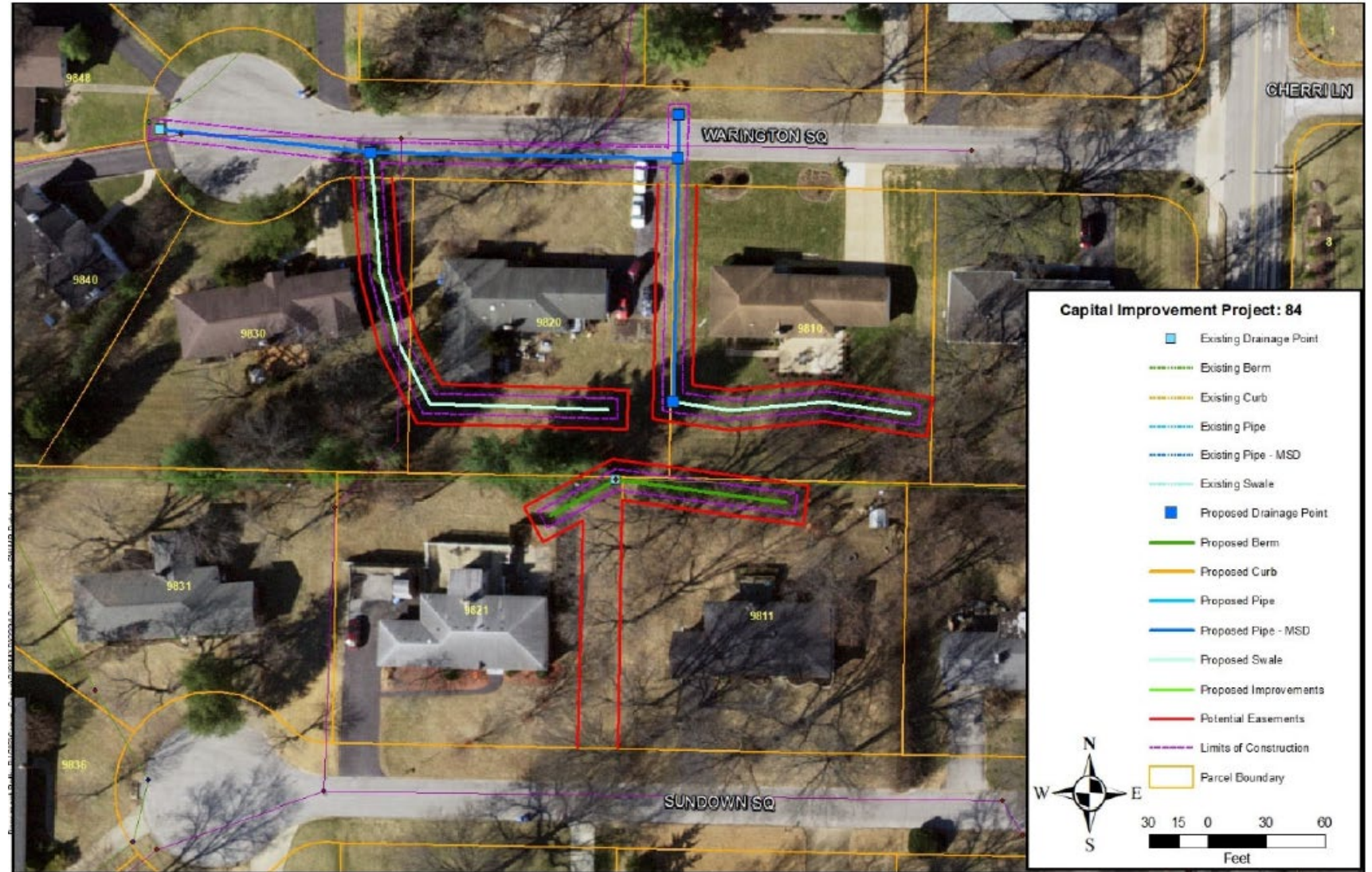
Warrington Square

Problem

Structural & yard flooding

Conceptual Solution

- Install swales, berms, inlets, and pipe
- Connect to the existing system



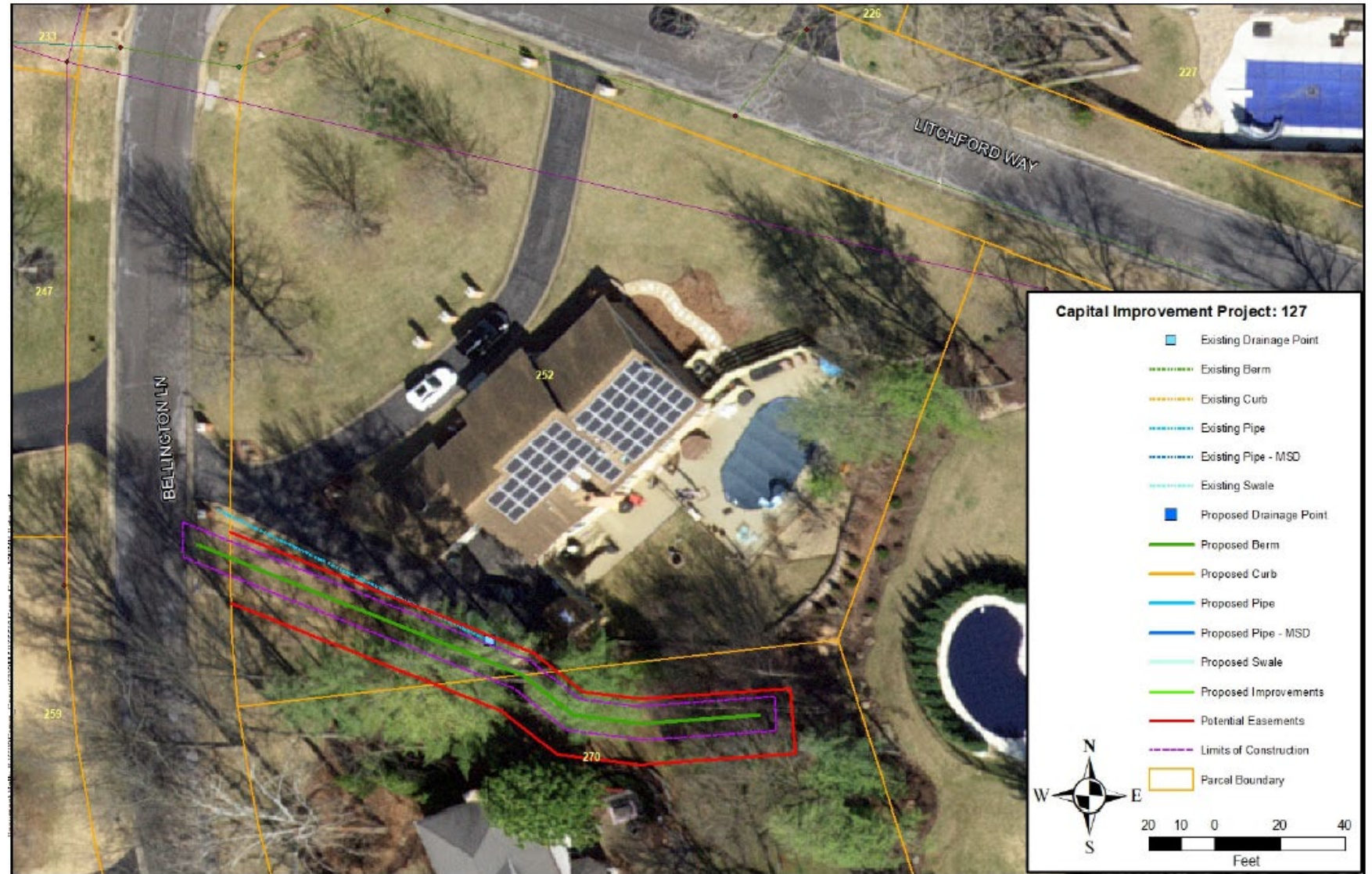
Bellington Lane

Problem

Structural & yard flooding at 252 Bellington Lane

Conceptual Solution

- Construct swale & berm with underdrain to direct flows to the roadway





Stormwater Management Cost-share Program

Two residential and one HOA project in progress

Hibler Road Drainage Improvements

Construction is on schedule to be completed the beginning of August

- No change orders to date
- PCX has positive interactions with residents
- West-side of the project:
 - Pipes and rock-lined swale system has been installed
 - Curb and gutter work still to be completed
- East-side of the project:
 - Ten-foot wide rock-lined swale mostly installed
 - Work has begun on the pipe run on the north side of the roadway
 - Still to be completed:
 - Modifications to the existing inlets on Falaise Drive
 - Grass-lined swale
 - Curbs





Golf Course Aeration Project



Replacement of failing City- owned stormwater drains

- The City owns a roadway trench drain on Bellerieve Manor and four inlets on West Rue De La Banque
- Structures are failing, creating public safety risks
- Bid docs are currently being created

Grant funding consultant

- City staff met with a potential consultant
- The consultant is in the process of reviewing the City's Watershed Management Plan to identify possible public projects that would be compelling candidates for grant funding opportunities