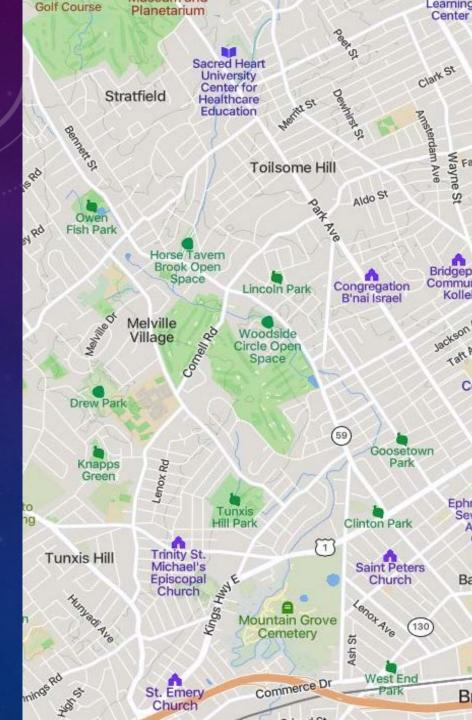
ROOSTER RIVER PROJECTS

DETENTION AREAS Fairchild Wheeler Golf 2 Det. basins, Tunxis Hill park edge/woods, Owen Fish (Still investig Villa Ave-Algonquin (small neighborhoods) OTHER WATERSHED IMPROVEMENTS River Sediment removal and disposal Storm system improvements, pipe removal, green infrastructure, wetland improvements	ating),		
		¢220.000	
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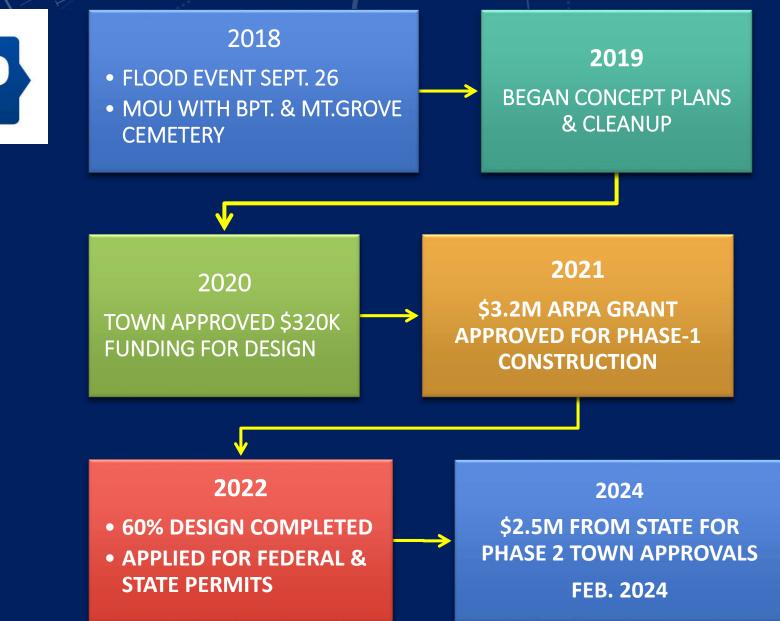
ROOSTER RIVER



SEPTEMBER 12, 2023 INFORMATIONAL PUBLIC MEETING UPDATE FOR BOF 1.9.2024







WHAT ARE WE DOING IN THE MEANTIME TO MITIGATE FLOODING?



FAIRFIELD AND BRIDGEPORT COORDINATED CLEANUPS IN 2018 & 2023



TOWN PURCHASED 150 VILLA AVE PROPERTY FOR NEIGHBORHOOD DETENTION & ENVIRONMENTAL BENEFITS. OBTAINED SMALL PARCEL ON ALGONQUIN. IWPA PERMIT OBTAINED

FINAL DESIGN IN PROGRESS



Fairfield, Connecticut

CONDUCTED TESTING WORKING WITH BPT. FOR SURVEY, DESIGN & REMOVAL OF SEDIMENTS IN RIVER CONTINGENT ON PROPERTY OWNER EASEMENTS

WHAT HAS CHANGED SINCE 2018?

SITE WITH MINIMUM EFFECT & BENEFITS ELIMINATED

RECEIVED ADDITIONAL \$2.5 MILLION STATE GRANT CONTINUE TO WORK WITH BPT, METROCOG, & STATE FOR GRANTS

1. TUNXIS HILL PARK DETENTI

SEPTEMBER 1, 2023 CTDEEP AUTHORIZES DETERMINATION APPROVAL FOR TUNXIS HILL DETENTION. DAM SAFETY PERMIT APPROVED, BUT AWAITING CONDITIONS/MITIGATION & USACE PERMIT STILL PENDING. ANTICIPATED FEBRUARY 2024.

2. FAIRCHILD WHEELER GOLF COURSE

SEPTEMBER 2023 CTDEEP AUTHORIZE DETERMINATION APPROVAL FOR FWGC DETENTION.

DAM SAFETY PERMIT APPROVED, BUT AWAITING CONDITIONS/MITIGATION & USACE PERMIT STILL PENDING. ANTICIPATED FEBRUARY 2024.

3. VILLA AVENUE PROJECT

NO STATE OR FEDERAL PERMITS REQUIRED. ONLY IWPA PERMIT RECEIVED WITH CONDITIONS. 2024 SUMMER CONSTRUCTION,

4. OWEN FISH

DESIGN IN PROGRESS. DIFFICULT DESIGN ONLY MINOR IMPROVEMENTS, POOR-FAIR FIELD CONDITIONS.

5. SEDIMENT REMOVAL OF ROOSTER RIVER

SPRING 2024 PERMIT APPLICATION

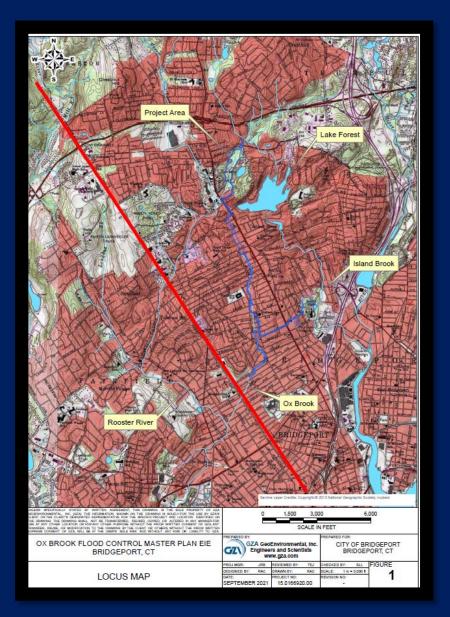
<u>\$6.5 MILLION GRANT FUNDING TOTAL</u>

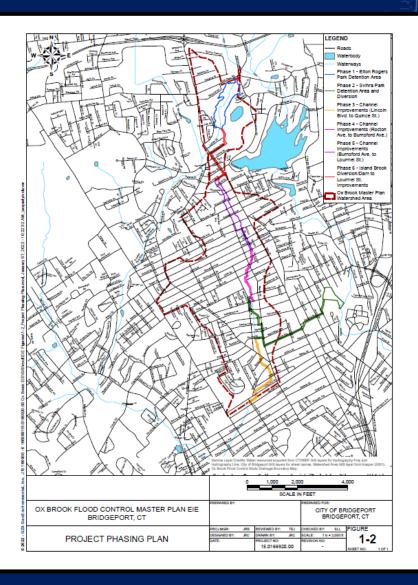
1. PHASE 1 CONSTRUCTION

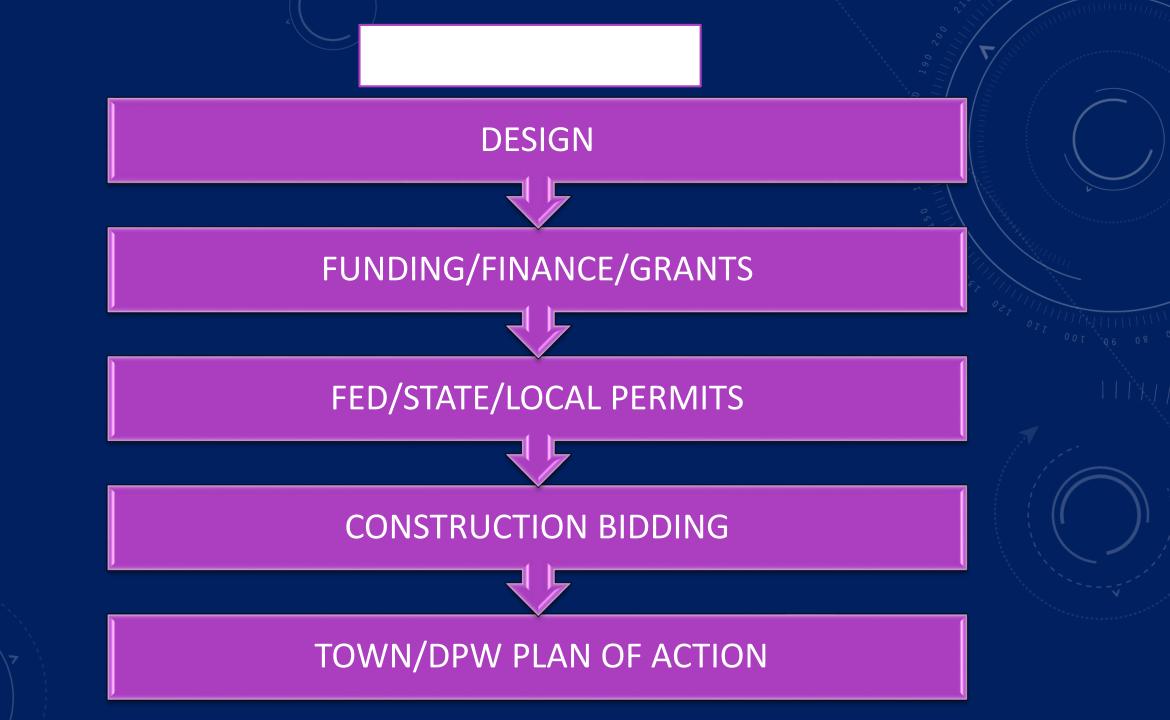
2. FLOOD MITIGATION FOR 150 VILLA AVENUE (PHASE2)

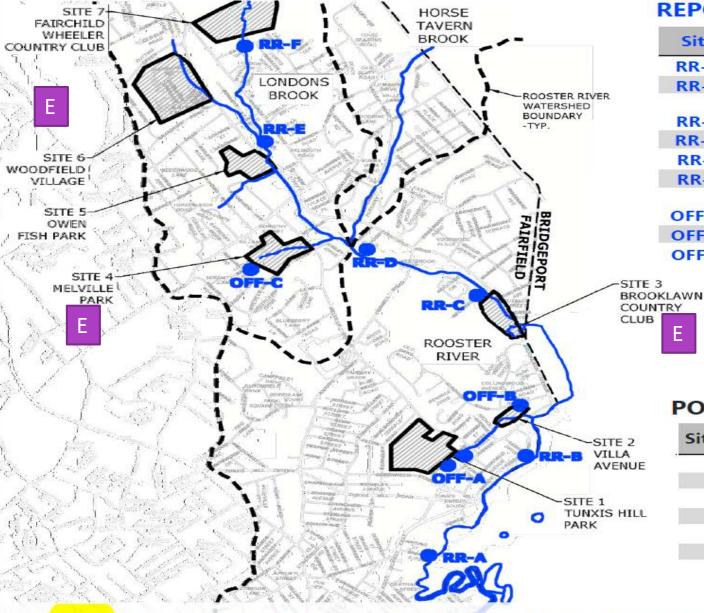
3. SEDIMENT REMOVAL FROM BROOKLAWN TO KINGS HWY (PHASE 3)

CO-ORDINATING WITH BRIDGEPORT









REPORTED FLOODING LOCATIONS

Site	Description		
RR-A	Shepard Street and Kings Highway East		
RR-B	Lynbrook Road and Lewis Drive		
RR-C	Brookview Avenue, Stratfield Road, and Woodside Circle		
RR-D Westbrook Place and Westwood Road			
RR-E	Bennet Street, Bond Street, and Lilalyn Drive		
RR-F	Casmir Drive and Wynn Wood Drive		
OFF-A	Nordstrand Avenue, Villa Avenue, Villa Place, Melville Avenue, and Nichols Avenue		
OFF-B	Algonquin Road and Pequot Road		
OFF-C	Littlebrook Road		

POSSIBLE DETENTION SITE LOCATIONS

Е

Site	Name			
1	Tunxis Hill Park			
2	Sinnott Property			
3	Brooklawn Country Club			
4	Melville Park			
5	Owen Fish Park			
6	Woodfield Village			
7	Fairchild Wheeler Country Club			

DETENTION SITE LOCATION MAP











SITE 7 - FAIRCHILD WHEELER GOLF COURSE





SITE 7 – FAIRCHILD WHEELER COUNTRY CLUB

- Owned by City of Bridgeport (inter-municipal coordination).
- The subject area floods under current conditions.
- Berm 4' AVERAGE 2' 8' HIGH at edge of woods and extend culvert could mitigate flooding up to 100-year events. CTDEEP & USACE REQUIRED 1000 YR. STORM ANALYSIS
- Possibility of two additional areas upstream of primary detention area.
- Could provide flooding relief for Casmir Dr, Wynn Wood Dr, Bennet St, Bond St, and Lilalyn Dr

WITH BENEFITS EXTENDING DOWNSTREAM TO STRATFIELD ROAD VILLA-LYNBROOK & EVEN RUTLAND & CAMDEN NEIGHBORHOODS

Storage Volume (% of 10- Year Flow)	Soils Suitable for Infiltration	Impacts on Private Property	Impacts on Current Land Use	Location in Watershed	Effective Flood Mitigation	Regulated Resource Impacts
177%	Poor	City of Bridgeport	Could Avoid Golf Course Operations	Upper	Yes	Low

ONE & MACBROOM

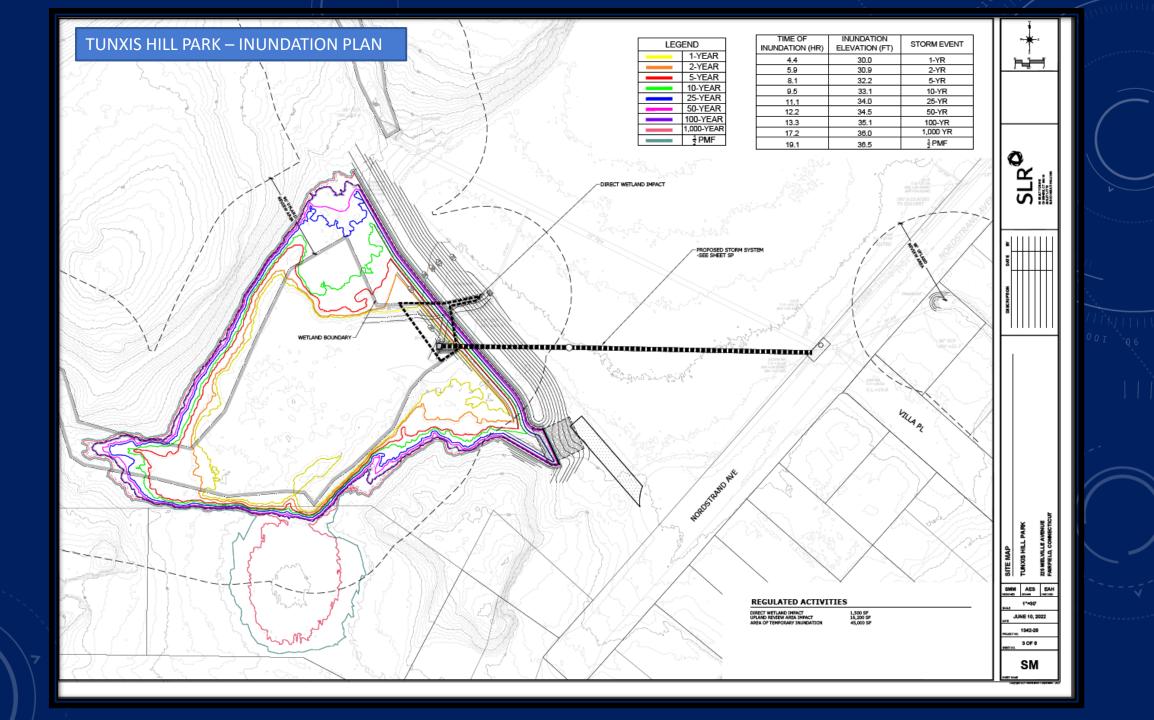
DIRECT IMPACT ON RESIDENTS

FAIRCHILD WHEELER GOLF COURSE

- REMOVAL OF TREES DUE TO DAM CONSTRUCTION
- NO TREES PERMITTED WITHIN 25' FROM BASE OF DAM
- NO PLANTINGS AND LANDCAPING IN AREA OF DAM
- INVESTIGATING MITIGATION MEASURES (NETTING, PERIPHERY LANDSCAPING)
- SIMILAR FOR <u>TUNXIS HILL</u> BUT TO LESSER DEGREE
- ENGINEERING MET WITH CASMIR DRIVE RESIDENTS ON 05/24/23 TO DISCUSS THE ABOVE







SITE 1 – TUNXIS HILL PARK

- Owned by Town of Fairfield.
- Flooding over fields occurs in events larger than a 2-year event.¹
- Berm (6-ft avg, 8-ft max height) at edge of woods, concrete Outlet Control Structure, culvert upgrades.
- Could mitigate flooding up to 100-year events for Nordstrand Ave, Villa Ave, Villa Place, Melville Ave, Nichols Ave. 1000 YR. STORM
- <u>Recommended</u> for further study/design. WAITING FOR PERMIT APPROVAL

Storage Volume (% of 10- Year Flow)	Soils Suitable for Infiltration	Impacts on Private Property	Impacts on Current Land Use	Location in Watershed	Effective Flood Mitigation	Regulated Resource Impacts
77%	Average	No	No, Forested	Low	Yes	Medium

¹(2009, Tighe and Bond "Townwide Drainage Studies, Area 4

- Nordstrand Avenue and Villa Place)

MILONE & MACBROOM



SITE 5 – OWEN FISH PARK

- Owned by Town of Fairfield.
- Berm (3-foot high) at edge of outfield, more robust field underdrains, daylighting of existing channel with constructed wetland area

Could provide flood relief during Various Brookview Ave, Statfield Rd. Woousiue Ci. Westbrook Pl, and Westwood Rd Strathmoor & DOGWOOD GREEN CONDO'S & DOWNSTREAM LOCATIONS

• <u>Recommended</u> for further study/design. Final Design to be completed 2024

Storage Volume (% of 10- Year Flow)	Soils Suitable for Infiltration	Impacts on Private Property	Impacts on Current Land Use	Location in Watershed	Effective Flood Mitigation	Regulated Resource Impacts
63%	POOR - FAIR	No	Potential Impacts to Outfields	Upper	Yes	Low



PHASE 1

ANTICIPATED TIMELINE

SMALL DETENTION AND STORM SYSTEMS PROJECTS

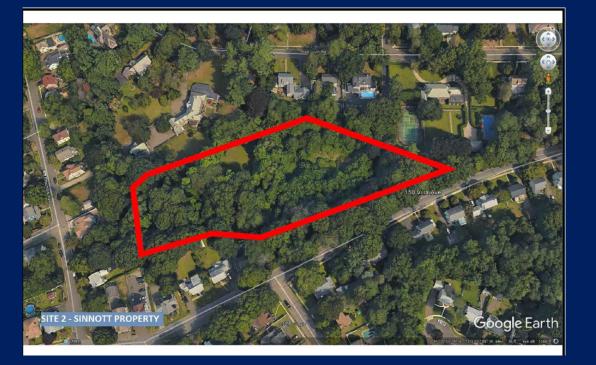
February 2024 AQUIRE ALL STATE AND FEDERAL PERMITS

Spring 2024 100% DESIGN

Spring 2024 START CONSTRUCTION

Summer 2025

PHASE 2 SITE 2 - 150 VILLA AVENUE



EXISTING DRAINAGE SYSTEM COULD BE DAYLIGHTED INTO A CONSTRUCTED WETLAND/WATER QUALITY BASIN TO PROVIDE UPSTREAM FLOODING RELIEF AT ALGONQUIN ROAD

INVESTIGATING INSTALLING BYPASS SYSTEM TO TRANSPORT RUNOFF AWAY FROM PEQUOT/ALGONQUIN INTERSECTION. SMALL NEIGHBORHOOD DETENTION BASIN.



PHASE 2 ANTICIPATED TIMELINE VILLA AVENUE PROPERTY

December 2023 IWPA PERMIT APPROVED WITH CONDITIONS

Summer 2024 START CONSTRUCTION

Summer 2025 CONSTRUCTION COMPLETED



PHASE 3

DREDGING FROM BROOKLAWN TO KINGS HWY/NORTH AVE

THE LENGTH OF THE CHANNEL IS 3300 LFT. , 38' CHANNEL BOTTOM & 1'-2' EXCAVATION DEPTH RECREATING 1960'S CHANNEL

NON-HAZARDOUS SEDIMENT BUT EXCEEDS CTDEEP THRESHOLD LIMITS WHICH REQUIRES PROPER DISPOSAL/PERMITS



PHASE 3
ANTICIPATED TIMELINE
SEDIMENT REMOVAL

Spring 2024 COMPLETION OF BATHYMETRIC SURVEYING

Summer/Fall 2024 COMPLETION OF DREDGING PENDING PERMITS



WHO IS RESPONSIBLE FOR ROOSTER RIVER MAINTAINENCE & ITS TRIBUTARIES

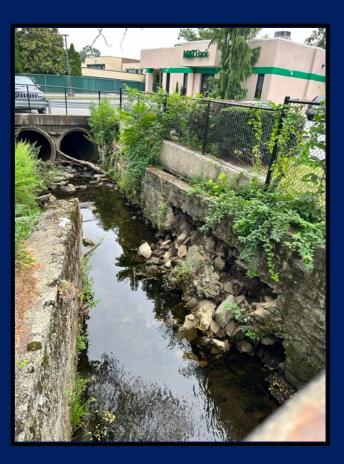
OUTSIDE OF FEW CASES WHERE TOWN OWNED PROPERTY ABUTS THE RIVER, MOST OF THE RIVER IS PRIVATELY OWNED

PROPERTY OWNERS ARE RESPONSIBLE FOR RIVER CLEANUPS

WITH PRE-APPROVAL HOMEOWNERS CAN CONTACT DPW FOR CURBSIDE DEBRIS PICKUP THAT CAME FROM THE RIVER.

FOR THE PAST 20 YEARS FFLD DPW HAS CONVERTED FROM SAND TO SALT BASED SNOW REMOVAL METHODS

IMPEDING MATERIAL DEPOSITION & VEGETATIVE GROWTH IN THE WATERCOURSE





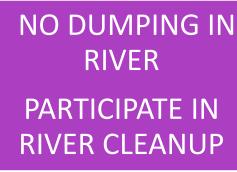


ACCORDING TO TOWN WETLAND REGULATIONS & CT DEEP A PERMIT IS REQUIRED FOR ANY IN WATER WORK

WHAT ARE ANTICIPATED CHALLENGES?					
CTDEEP ISSUED WQC PENDING NO PUBLIC COMMENTS	CTDEEP DAM SAFETY & USACE PERMITS PENDING	OBTAINING EASEMENTS MOST PROPERTY ON THE RIVER & ACCESS TO THE RIVER ARE PRIVATELY OWNED			
RESIDENTS & BUSINESSES DON'T DUMP DEBRIS ON RIVER BANK	MORE PERMITS & PROPER DISPOSAL OF SEDIMENT REMOVAL SUCH AS CEPA CTDEEP & USACE	MULTI-PHASE APPROACH COST			

WHAT CAN WE DO TOGETHER TO MITIGATE FLOODING ?





SIGN & SUBMIT EASEMENT FORMS

GH ITS IT PUBLIC NT CAN MITTING IT PUBLIC NT CAN MITTING

ALTHOUGH ITS YOUR RIGHT PUBLIC COMMENT CAN DELAY PERMITTING

FIX PRIVATE WALLS NOTIFY TOWN OF OBSTRUCTIONS (PUBLIC/PRIVATE) PUBLIC SUPPORT LETTERS & UTILIZE FERB & POCD TO HELP TOWN OBTAIN MORE GRANT MONEY

FOR FOLLOW UP/QUESTIONS/COMMENTS PLEASE CONTACT US:

- Bill Hurley: Whurley@fairfieldct.org
- Megha Jain: Mjain@fairfieldct.org
- All plans and updates will be available on the Town of Fairfield website, www.fairfieldct.org

THANK YOU!

ROOSTER RIVER PROJECTS

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 Fairchild Wheeler Golf 2 Det. basins, Tunxis Hill park edge/woods, Owen Fish (Still investigating), Villa Ave-Algonquin (small neighborhood)

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- Storm system improvements, pipe removal, green infrastructure, wetland improvements

ROOSTER RIVER PROJECTS-CONTINUED

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