

CITY OF NORWALK
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**CITY OF NORWALK
PUBLIC WORKS COMMITTEE
SPECIAL MEETING
April 13, 2020**

- ATTENDANCE:** George Tsiranides, Chairman; Barbara Smyth; Tom Keegan; George Theodoridis; Manny Langella; Tom Livingston; Darlene Young; Kadeem Roberts; Lisa Shanahan; John Kydes, David Heuvelman
- STAFF:** Anthony Carr, Chief of Operations and Public Works; Vanessa Valadares, Principal Engineer; Paul Sotnik, Senior Civil Engineer; Jessica Paladino, Waste Programs Manager; Drew Berndlmaier, Senior Civil Engineer
- OTHERS:** Anthony Catalano, PE/Woodard & Curran; Steve Lauria/Woodard & Curran; Joseph Kirby, PE, CFM/Woodard & Curran; Dave White/Woodard & Curran; Darren /Woodard & Curran; Diane Lauricella via email; Angelo DiPasquale via email

The meeting was called to order at 7:06 p.m. A quorum was present.

Special Legal Requirements for this Meeting

- A. To allow public access, anyone may access the meeting by either telephone, Zoom and/or the City of Norwalk YouTube Channel. Additional instructions to access the meeting are provided below.
- Telephone Access (Listening Only):
 - Dial (646) 558-8656
 - Enter Webinar ID: 531 051 797
 - Register in advance for this webinar (first name, last name, email required):
 - https://zoom.us/webinar/register/WN_QUjmDQ-oSfiqjPH8izUQXQ
 - After registering, you will receive a confirmation email containing information about joining the webinar.
 - For those that just wish to view the meeting via the website, but are not participating:
 - They can view the live stream on the City of Norwalk, CT YouTube Channel: <https://www.youtube.com/channel/UCRcAj0a6fNzo2prQ6LhSjVA>
- B. To allow further public access, anyone may access the meeting by dialing in (please use the numbers listed above) and hear the Public Works Committee meeting live. Additional instructions for public access has been attached to the backup materials for this meeting (refer to Attachment A "Participating and attending Public Meeting Virtually").
- C. This meeting will also be recorded and a copy of the audio recording will be posted on the City website within seven (7) days after the meeting.
- D. Anyone who wants to provide public comment should submit them to the staff of the Public Works Committee, Monique Cipriano, at mcipriano@norwalkct.org, in advance of the meeting. In order for these comments to be read into the record, they should be submitted at least three (3) hours in advance of the meeting start time. Monique Cipriano will read timely submitted public comments into the record at the meeting. For those who want to provide "live comments," they will need to use the zoom link (see above) and click the raise your hand indicator. The host will call on them during the public comment section of the meeting.

- E. For clarity, EACH person speaking during the meeting must **identify themselves by name and title or affiliation**, EACH time they speak. This will allow all participants, as well as those listening to the recording after the meeting, to better follow the discussion.

Mr. Tsiranides called to order the Public Works Committee meeting on Monday, April 13, 2020. He stated that the meeting is being done by video conference. He announced all of the Committee Members by name and each member responded for attendance. A quorum was present. He announced all Common Council Members and Public Works Department Staff that were present as well. Mr. Tsiranides gave instructions on how the public comment will be addressed. Public comments via email or zoom video conferencing. Mr. Tsiranides began the meeting with Public Hearing.

PUBLIC HEARING

PUBLIC HEARING TO CONSIDER ESTABLISHING A \$100 FEE FOR RESIDENTS AND REAL PROPERTY OWNERS WHO DO NOT PAY VEHICLE TAX TO NORWALK, TO USE THE TRANSFER STATION AND YARD WASTE SITE PER CHAPTER 94, §94-19.

Ms. Valadares read the comment from Ms. Diane Lauricella that was sent via email and stated that she supports the portion of Chestnut Street to be named after Cesar Ramirez wholeheartedly. In this case, she believes that the one-year waiting period should be waived.

Mr. Tsiranides closed the public hearing portion of the meeting at approximately 7:13p.m.

PUBLIC INPUT

PUBLIC INPUT (GUESTS AT COMMITTEE MEETINGS MAY SPEAK TO ANY ITEM ON THE AGENDA. COMMENTS SHALL BE LIMITED TO NO MORE THAN THREE (3) MINUTES PER SPEAKER.)

Mr. Tsiranides opened public input and went over the public input item on the agenda. He informed all of those signed up to speak to keep their comments to three (3) minutes or under.

Ms. Valadares read an email from Ms. Diane Lauricella for public input. Ms. Lauricella stated in her email a change in the minutes under her comment she would like to delete the phrase "instead of" the three-minute public comment and replace with what she said "in addition to" the three-minute public comment time. Item #5 HHW: this is one of the waste streams that the Norwalk Zero Waste Coalition feels could be reduced with addition of public outreach and educational materials given out to attendees related to buying less-toxic materials and substances when possible. As some of you know, I created the HHW Collection Day for Mayor Bill Collins as a LWV volunteer back in the mid 1980's and hoped that public education would always be a part of the collection of this toxic waste stream. More opportunity exists with free information and educational materials. Under Discussion A: Woodard and Curran: Dreamy Hollow Executive Summary and Report: Please ensure that green infrastructure options are built in and offered for this flood control project. When I attended the public meeting, I was assured that green infrastructure design could/would be included in the solutions for this project. Has this happened? It is my understanding that there are grants available for these kind of projects from several sources. Please advise me. B. Monthly Solid Waste Report: I have included an email below (not

to be read but just submitted for the record) that I sent after a mid-March conference call relating to taking advantage of a couple of basically free waste reduction services. I have not heard back from staff or anyone else. The Norwalk Zero Waste Coalition desires to continue this work with the City when possible. While I understand that the Corona Crisis has disrupted many of our lives and work, I hope that working on these opportunities now will create good news for the public in the near future and help us plan for the future. I propose that after tonight, that you identify someone to get back to me about the two opportunities mentioned in the March 26 email below.

Ms. Valadares read an email from Mr. Angelo DiPasquale for public input. He stated that he would like to know if a smoke test was conducted on Saddle Road for illegal connection to residence storm gutters that are legally going into the storm drains. And if so, have those people been notified and have they disconnected those connections.

Mr. Tsiranides asked Mr. Carr if there has been any smoke testing on Saddle Road.

Mr. Carr responded that they have conducted smoke testing in the Wall Street Area in late March. He is not aware of any being conducted on Saddle Road but he will confer with his staff.

Mr. Tsiranides asked if it would be necessary to do in that particular area.

Mr. Carr responded yes.

Ms. Valadares stated that she would address this concern as a customer service request.

NEW BUSINESS

1. APPROVE THE MINUTES OF THE PUBLIC WORKS COMMITTEE MEETING OF TUESDAY, MARCH 3, 2020.

There was one (1) change to the minutes: In the minutes Ms. Lauricella would like to change "instead of" the three-minute public comment to "*in addition to*" the three-minute public comment.

There were no more changes to the minutes.

****MR. LIVINGSTON MOVED THE ITEM**

****MS. YOUNG ABSTAINED**

****MOTION PASSED UNANIMOUSLY AS AMENDED WITH ONE
(1) ABSTENTION**

2A. AUTHORIZE THE MAYOR, HARRY W. RILLING, TO EXECUTE AN AGREEMENT WITH DEERING CONSTRUCTION, INC. FOR PROJECT PM2020-2 PERMANENT REPAIRS & SURFACE RESTORATION FOR A SUM NOT TO EXCEED \$488,890.00.

ACCOUNT NO. 03 00 00 2602

- 2B. AUTHORIZE THE CHIEF OF OPERATIONS AND PUBLIC WORKS TO EXECUTE ORDERS ON THE CONTRACT WITH DEERING CONSTRUCTION, INC. FOR PROJECT PM2020-2 PERMANENT PAVEMENT REPAIRS AND SURFACE RESTORATION FOR A SUM NOT TO EXCEED \$48,889.00.**

ACCOUNT NO. 03 00 00 2602

Mr. Carr reported on this item. He stated that this item is for the annual patch contract where any construction of pavement through private companies or utilities or anything in the roadway that doesn't constitute full paving, which could be a patch or a trench. Every year they issue a contract and there were two (2) bidders this year, Deering Construction and P & S. This was the first electronic bid that was conducted and was very successful. They are comfortable with the number. The second bidder was almost \$100,000.00 more than the first.

****MS. SMYTH MOVED THE ITEM**

****MOTION PASSED UNANIMOUSLY**

TECHNICAL CORRECTION OF THE COMMON COUNCIL ACTION OF MARCH 12, 2019, ITEM VII.C.4 TO ADD ACCOUNTS DESIGNATED FOR RETAINING WALL INSTALLATION AND RECLAIM OF PARKING LOT FOR RECREATION AND PARKS, ACCOUNT NUMBERS: 09 18 6030 5777 C0588, 09 18 6030 5777 C0588 AND 09 20 6030 5777 C0588.

- 3A. AUTHORIZE THE MAYOR, HARRY W. RILLING, TO EXECUTE AN AGREEMENT WITH DEERING CONSTRUCTION, INC. FOR PROJECT PM2019-1 PAVEMENT MANAGEMENT PROGRAM FOR A SUM NOT TO EXCEED \$4,538,688.50.**

**ACCOUNT NO. 09 18 4021 5777 C0021
09 19 4021 5777 C0021
09 19 4027 5777 C0302
09 18 4021 5777 C0503
09 17 4021 5777 C0515
09 19 6030 5777 C0472
09 19 6310 5777 C0186
09 19 6310 5777 C0092
09 19 6310 5777 C0132
09 12 4021 5777 C0504
09 16 4021 5777 C0232
03 00 00 2602
01 41 50 5298
09 18 6030 5777 C0588
09 19 6030 5777 C0588
09 20 6030 5777 C0588**

- 3B. AUTHORIZE THE CHIEF OF OPERATIONS AND PUBLIC WORKS TO EXECUTE ORDERS ON THE CONTRACT WITH DEERING CONSTRUCTION, INC. FOR PROJECT PM2019-1 PAVEMENT MANAGEMENT PROGRAM FOR A SUM NOT TO EXCEED \$453,868.85**

ACCOUNT NO. 09 18 4021 5777 C0021
 09 19 4021 5777 C0021
 09 19 4027 5777 C0302
 09 18 4021 5777 C0503
 09 17 4021 5777 C0515
 09 19 6030 5777 C0472
 09 19 6310 5777 C0186
 09 19 6310 5777 C0092
 09 19 6310 5777 C0132
 09 12 4021 5777 C0504
 09 16 4021 5777 C0232
 03 00 00 2602
 01 41 50 5298
 09 18 6030 5777 C0588
 09 19 6030 5777 C0588
 09 20 6030 5777 C0588

Mr. Carr reported on this. He stated that this is not an increase to the cost of the annual paving contract but this is merely a scope change to include the parks garage. The Recreation and Parks capital accounts will be used to complete the additional work.

****MS. YOUNG MOVED THE ITEM**
****MOTION PASSED UNANIMOUSLY**

4. APPROVE \$100 FEE FOR RESIDENTS AND REAL PROPERTY OWNERS WHO DO NOT PAY VEHICLE TAX TO NORWALK, TO USE THE TRANSFER STATION AND YARD WASTE SITE PER CHAPTER 94, §94-19.

Mr. Tsiranides explained that they are just approving the fee and then this item will move on to the Ordinance Committee. The Ordinance Committee will work on the verbiage.

Ms. Young asked if there was a fee before and if so what the fee was.

Mr. Carr responded that there wasn't a fee before. This initiative is part of splitting out the disposal pass that allows residents to bring their debris and waste to the transfer station and the yard waste. This is a new system since they are peeling out the operations portion from the current section of the code which is Chapter 74 Recreation and Parks. The beach pass was all in one so for all intended purposes they are splitting out the disposal pass and the regular resident pass between operations and Recreation and Parks.

Mr. Tsiranides added that this only applies to people that do not have their vehicles registered in Norwalk.

Mr. Carr responded correct.

Mr. Livingston said this is subject to approval from the Ordinance Committee. He also asked if there would be three (3) categories, a resident, a non-resident property owner and a resident property owner.

Mr. Carr responded correct. He explained the difference between the three categories.

Ms. Young asked about the non-resident property owner using the transfer station.

Mr. Carr stated that there is only two (2) categories, a resident that owns property and does not have their car registered and a resident that own property and do have their car registered. There really is only two (2) categories.

Ms. Paladino said that someone could be a renter as long as their car is registered in Norwalk paying the vehicle fee. It is really tied to the resident paying the vehicle fee.

****MS. YOUNG MOVED THE ITEM**

****MOTION PASSED UNANIMOUSLY**

- 5. AUTHORIZE THE MAYOR, HARRY W. RILLING, TO EXECUTE AN AGREEMENT WITH CARE ENVIRONMENTAL CORP. FOR PROJECT 3980 HOUSEHOLD HAZARDOUS WASTE COLLECTION FOR A SUM NOT TO EXCEED \$27,800.00.**

ACCOUNT NO. 01 40 42 5258

Mr. Tsiranides stated that this is a program that they have done in the past for many years. He said this year they are looking to work with Coalition of Fairfield County City and Towns.

Mr. Carr added that this is the Coalition of Fairfield County City and Towns. He said it is comprised of eight (8) municipalities, Darien, Greenwich, Stamford, Norwalk, Wilton, Weston, Westport and New Canaan. This allows residents to bring their household hazardous waste which are items such as gasoline and lawn fertilizers, etc., and bring it designated sites. Norwalk's site is scheduled for late August 2020, which is now TBD due to the Corona Virus Pandemic. This program has been in effect for the last few years. Chris Torre and Jessica Paladino oversee this program and it has been very successful. He said this year they are including, in the RFP, the ability of residents to give their paints to be properly recycled. This was not done in the past. They have been paying hazardous waste prices for paint that was not hazardous. With this contract they will be paying less to get rid of the paint which would be properly recycled and they could either recycle more paint or pay for more hazardous materials because now they will have additional funding.

Mr. Livingston asked if that means latex and oil based paints as well.

Mr. Carr responded yes then referred to Ms. Paladino.

Ms. Paladino said that the paint care program incorporates specific paint. One (1) of them is latex paint. Oil based paint is still considered a household hazardous waste.

Mr. Livingston asked if that would have been included anyway.

Ms. Paladino concurred.

****MR. LIVINGSTON MOVED THE ITEM**

****MOTION PASSED UNANIMOUSLY**

6. **RE-AUTHORIZE THE MAYOR, HARRY W. RILLING, TO EXECUTE AN AGREEMENT BETWEEN THE CITY OF NORWALK AND TIGHE AND BOND, INC., TO PROVIDE CONSTRUCTION OBSERVATION SERVICES FOR DPW CAPITAL PROJECTS RELATED TO THE PAVING PROGRAM (PAVING, SIDEWALKS, DRAINAGE, ETC), FOR AN AMOUNT NOT TO EXCEED \$210,850.00 ON A SOLE SOURCE PROCUREMENT BASIS.**

**ACCOUNT NO. 09 18 4021 5777 C0021
 09 19 4021 5777 C0021
 09 20 4021 5777 C0021
 09 19 4021 5777 C0318
 09 20 4021 5777 C0318
 09 20 4027 5777 C0302**

Mr. Carr reported on this. He stated that this is a reauthorization for the professional services contract. This item went before this committee in March 2020 for construction services observation. They have extended their paving program this year with Deering Construction. Deering Construction has been making excellent progress. They want to utilize the current inspector that belongs to Tighe & Bond, who has been doing their paving oversight, to oversee Deering's work under the PM2019-1 contract under the extension of the contract that the Committee and Common Council recently approved. He stated that their rates were much lower than the other bidders. He said that it is cost advantage to the City. Deering Construction has been putting out a lot of work and it is hard to keep up. He said the Committee will notice that the change to the agenda item, the word reauthorize at the beginning and the word sole source procurement basis at the end.

Mr. Tsiranides stated that there haven't been any problems with Deering Construction or any of the other work they have been doing so far.

Mr. Carr stated that Deering has been on schedule and there are no quality control issues. He said given the crisis that is going on now, his staff has been doing a great job keeping the work flowing. They have been doing a good job given out permits, essential and non-essential but also includes the inspections. He said since they have the contractors out there working they need the inspectors out there as well which is a combination of City staff and also an inspector. They requested additional funding for a position for construction inspection but did not get it so they decided to move ahead anyway with the consultant.

Ms. Valadares stated that Tighe & Bond's inspector is already inspecting the work with the paving. They are also covering sidewalks with their own engineers inspecting the work. This is the third year that Tighe & Bond are overseeing the paving so there is no

learning curve for the inspector. The inspector is able to keep very good records and they are on point with the quantities that he is keeping track of. That is the reason they highly recommend the reauthorization.

****MS. SMYTH MOVED THE ITEM**
****MOTION PASSED UNANIMOUSLY**

7. **AUTHORIZE THE MAYOR, HARRY W. RILLING, TO EXECUTE AN AMENDMENT WITH PRIORITY LANDSCAPING, LLC, TO PROJECT DPW 2019-1, REMOVAL & DISPOSAL OF DEPOSITED SEDIMENT WITHIN THE WATERCOURSE, FOR AN AMOUNT NOT TO EXCEED \$15,000.00.**

ACCOUNT NO. 09 15 4027 5777 C0440
09 17 4027 5777 C0440
09 18 4027 5777 C0440
09 19 4027 5777 C0425

Mr. Carr reported on this. He said this work is related to the dredging at five (5) locations, Friendly Pond, June, Kelley, Hunter and Lloyd. They are removing sediment from these open waterways in order to increase capacity and allow some water flows to get through those areas quicker and reduce flooding in certain areas. This is a change order for the loss time and loss revenue from the contractor who anticipated beginning work in January and unfortunately due to the permitting efforts from the Army Corps was very challenging up until a few weeks ago. The contractor could have gotten work for that time lost so they negotiated a price for the contractor. They estimated having the permitting work in four (4) to six (6) months when it actually took nine (9) months. So while the contractor sat idle, not being able to get work, they negotiated with the contractor and the Corporation Counsel on a value they deemed appropriate.

****MR. TSIRANIDES MOVED THE ITEM**
****MOTION PASSED UNANIMOUSLY**

8. **AUTHORIZE THE PURCHASING AGENT, TO PURCHASE FIVE (5) SETS OF RECTANGULAR RAPID FLASHING BEACONS FROM TAPCO, INC. BROWN DEER, WI. FOR A SUM NOT TO EXCEED \$27,900.00.**

ACCOUNT NO. 09 17 4021 5777 C0581
09 18 4021 5777 C0581

Mr. Tsiranides stated that these are the signs seen at crosswalks by schools. Two (2) of the rectangular rapid flashing beacons will be at the schools, two (2) will be used for the Norwalk River Valley Trail and one (1) spare.

Mr. Carr added that there are five (5) in total. One (1) will replace the 25 year old beacon at Fillow Street, Kendal Elementary School. There will be one (1) at William Street, the back entrance of Nathan Hale Middle School. There were a number of customer service calls for William Street. The Transportation Engineer, Michael Yeosock reviewed the requests and deemed them appropriate to install a flashing beacon at that location and it was also approved by the Traffic Authority. The other

two (2) beacons will be installed at the Norwalk River Valley Trail, locations are TBD. TMP has been proactive and anticipate higher vehicular/pedestrian traffic. The fifth beacon will be a spare.

Ms. Smyth made a comment that she is really pleased to see William Street at Nathan Hale included. She has heard so many complaints about that area. She thanked staff for their work on that.

Mr. Livingston asked if the beacons are permanent. He wanted to know if the fifth beacon could be moved around.

Mr. Tsiranides stated that technically the fifth beacon would be used as a spare unless they identify a place where it is needed.

Mr. Livingston asked if they have to be permanently installed or can they be moved around.

Mr. Carr responded that they are permanent structures. He said the two (2) beacons at the NRVT locations are Maple Street and Union Park.

Ms. Young asked if those signs are the same signs that have been put up at different locations.

Mr. Tsiranides said he believes they are the same signs as the ones put up at West Avenue and by the Mall.

Mr. Carr agreed and said there is also a beacon installed on East Avenue and was recently installed by TMP.

Ms. Young asked if there was a way to monitor the beacon in front of Grace Baptist Church and the Norwalk Senior Center because someone can get hurt when trying to cross the street. She shared an incident she witnessed.

Mr. Keegan commented on the flashing lights. He said that he is unsure if drivers really understand what the flashing lights mean and perhaps speak to the State Legislators to compel driver education courses to cover this stuff in their curriculum.

Ms. Smyth agreed with Mr. Keegan. She asked if they could incorporate cameras in those areas.

Mr. Tsiranides stated that is a good idea and suggested speaking with TMP and have them look into it and come up with options and ideas.

Ms. Young stated that the Flax Hill Road area as well. She mentioned this to TMP and shared the information she received about it.

Mr. Livingston said that State Law does not permit traffic to be enforced through the cameras, tickets cannot be issued.

Ms. Valadares said that she would pass along the information/concerns to TMP.

****MR. LIVINGSTON MOVED THE ITEM**

****MOTION PASSED UNANIMOUSLY**

9. **ACKNOWLEDGE THE RECEIPT OF THE REQUEST FOR THE HONORARY NAMING OF THE PORTION OF CHESTNUT STREET FROM MONROE STREET TO MERRITT PLACE TO OFFICER CESAR RAMIREZ DRIVE.**

FROM THE OFFICE OF THE MAYOR AND THE CHIEF OF POLICE

10. **SCHEDULE A PUBLIC HEARING FOR THE HONORARY NAMING OF THE PORTION OF CHESTNUT STREET FROM MONROE STREET TO MERRITT PLACE TO OFFICER CESAR RAMIREZ DRIVE. THE PUBLIC HEARING SHALL BE CONDUCTED IN ORDER TO HEAR ALL PARTIES INTERESTED IN COMMENTING ON THE PROPOSED HONORARY STREET NAMING AND TO TAKE SUCH ACTION ON SAID NAMING THAT THE COMMITTEE MAY DEEM ADVISABLE. THE PUBLIC HEARING IS SCHEDULED FOR TUESDAY, MAY 5, 2020 AT 7:00 P.M. LOCATION TBD**

Mr. Tsiranides read Item 9 and Item 10 together as they are related. He said that the Committee spoke about this in the past and sent it over to the Ordinance Committee.

Mr. Livingston added that the Ordinance Committee did review this and has proposed amendments to the Ordinance to permit this. Previously, a person would have had to be deceased for over a year. This is being reviewed by Ordinance Committee tomorrow and then the Common Council if approved by the Ordinance Committee.

****MR. LIVINGSTON MOVED THE ITEM**

****MOTION PASSED UNANIMOUSLY**

INFORMATION / DISCUSSION

A. DISCUSSION

1. **PRESENTATION BY WOODARD & CURRAN, ENGINEERING PA PC RE: PRELIMINARY FINDINGS AND RECOMMENDATIONS FOR DREAMY HOLLOW ESTATES (FRIENDLY POND AREA) DRAINAGE STUDY**

Mr. Carr stated that the City took on two (2) flood studies, Dreamy Hollow & New Canaan area. Currently, The Dreamy Hollow Estates (Friendly Pond Area) is in progress. He said that this is a different type of study. The drainage area is about 400 acres. There has been a lot of flooding in those locations. Woodard & Curran will provide their findings. Mr. Carr introduced Woodard & Curran.

Mr. Anthony Catalano thanked everyone for having them participate in the meeting. He said they are really just getting started and have so much information. He acknowledged the responsiveness of this study to date from the Chief, DPW Team and Engineers. He said that this is a different type of study as it is much more thorough and detailed. Mr. Catalano stated that they appreciate the partnering with the department to go out into the field and complete some field verification and

making sure everyone is available. He said it goes a long way because it avoids any real delays and allows the transfer of information to go smooth. Mr. Catalano introduced his staff.

Mr. Joe Kirby began the presentation slide show. Please see attached or go to YouTube to see the full presentation.

Mr. Livingston said he understands that they are using the 25 year storm and he understand why but he would like to know how they should think about that in terms of the increasing number of more than 25 year floods. He asked how that affects the model and is there something else they should be thinking about as it can cause more sewer problems. He asked about permitting and what they think the issues with permitting are.

Mr. Kirby responded that they do run five (5) different scenarios from the 5 year to the 100 year flood condition for the modeling but there is a certain level of protection that they can provide and afford which is the 25 year event. The 25 year event model is what they look at but also look at and will map the additional scenarios in their final report. Permitting was referred to Mr. Catalano.

Mr. Catalano responded that one (1) of the key things they focus on as they move towards the next step is to refine cost estimates and understand what the permitting strategy is. He continued saying if they go into sensitive areas to do some improvements, what does that mean in terms of permitting and schedule. He said they are prepared to address that as they continue to move forward. They look at their job being creating a clear road map for the City to follow as they move toward implementation. He agreed with Mr. Livingston that permitting is one (1) of the factors. He said it is the technical things, cost estimating and regular compliance.

Mr. White added that the rainfall data that they are using is higher projected rainfall data considering some climate changes. The 6.4" of rainfall for a 25 year storm is very intense rainfall event more than would traditionally be in the past.

Mr. Tsiranides asked if the Newtown Dam would require additional permits or would the permits they recently obtained be good enough to remove a dam.

Mr. Catalano responded they understand the specifics of the permit they have for that now and to what extent to permit modification versus no significant change or what have you. He said that they would need to take a closer look at that as he does not believe they have reviewed that information as of yet.

Mr. Tsiranides asked how much rain it would take before it begins back flowing until it reaches that point and now the rain is going back to the house.

Mr. Kirby said that you have to fill the pipe first before the water would flow over. He displayed the slide to represent how the water would have to fill in the pipe before it would begin to overflow. The water is immediately flowing in the reverse direction filling up the pipe as soon as it starts to rain.

Mr. Carr asked them to tell the Committee the difference between flood mitigation and flood elimination and what the intent of the study is. He said that it is important that the Common Council, the Committee and the residents that are watching this understands.

Mr. Catalano said that they initially began thinking 5 or 6 different areas and complete 5 to 10 runs and they will have their answer but there were quite a few challenges. He said it is more about improving conditions. Managing existing conditions and having improvements, you look at it from lowering elevations and shorter foot during times. He said they are looking to improve conditions while keeping an eye on the costs.

Mr. Langella said thank you to the presenters, he thought the presentation was awesome. He said his main concern was diminishing return, how much money they invest versus what they can see as far as improvements.

Mr. Catalano said they are just representing the results of the work that has been done. He said as they continue they will provide an executive summary that highlights results, what they have done and the preferred recommendation/alternative so they can begin and start to see some results.

Mr. Sotnik asked the consultants to go over in detail what the next steps would be after the final report.

Mr. Catalano responded that the first order of business would be to wrap up the modeling with the hybrid solution that was discussed this evening. The intent is to move into a multi-phase design process so that they can continue to partner closely with the engineering department. They would take the conceptual planning preliminary design to a certain extent and take that information and develop 30% design level documents which would start to lay things out. They would coordinate with the engineering department to see if there are additional surveys needed to supplement what has already been done. Once all of that is completed and they have the surveys they need to create base maps, then they start to get into the 30% design process. The 30% design will advance the concepts that they have from the analysis and as they continue to move forward and receive comments, they will address those comments to move to a 60% design and after that it would be close to final. He said that communication is really the key during the design process. Once the design process is complete and they have plans and specifications they will incorporate them as part of a set of bid documents. The bid documents essentially would include the plans and specifications, together they call it front end documents which is typically the legal documents which include the bid forms, notice to bidders, insurance requirements, etc. will all be packaged together so the City could then issue out to contractors who would then issue bids on the project. They will work together with the City to evaluate the bids and based on that analysis, the City would choose a contractor and then the work begins.

Mr. Sotnik asked about a timeframe.

Mr. Catalano said they are getting through the modeling phase and their intent is to do their best to start to see results this year and have some activity out in the field this year. He said they will continue to update the City and move forward. Once the modeling and reports are complete and they develop that game plan for the design process, they will sit with Public Works and start to lay out a more formal schedule. At that point it will be more clearly defined. There were a lot of variations, a lot more than the City or anyone else anticipated given the challenges. Once all the modeling work is done it would be easier to come up with a schedule.

Mr. Sotnik thanked him and his staff.

Mr. Tsiranides thanked Woodard and Curran for the presentation. He thanked Mr. Carr and the Public Works Staff for all the hard work.

2. SEDIMENT REMOVAL CONTRACT

There was no discussion, item tabled until the next meeting.

3. HEAVY PIPE CLEANING CONTRACT

There was no discussion, item tabled until the next meeting

B. MONTHLY SOLID WASTE REPORT – FEBRUARY 2020

There was no discussion, item tabled until the next meeting.

UPCOMING PROJECTS

There was no discussion on this item.

ADJOURNMENT ****MR. LIVINGSTON MOVED TO ADJOURN**
****MOTION PASSED UNANIMOUSLY**

There was no further business and the meeting was unanimously adjourned at 8:59 p.m.

NEXT MEETING: **Tuesday, May 5, 2020**
Public Works Committee
7:00 P.M. Location TBD



Dreamy Hollow Public Works Committee Review

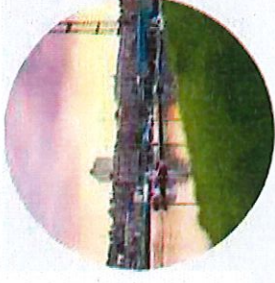
April 13, 2020



COMMITMENT & INTEGRITY DRIVE RESULTS

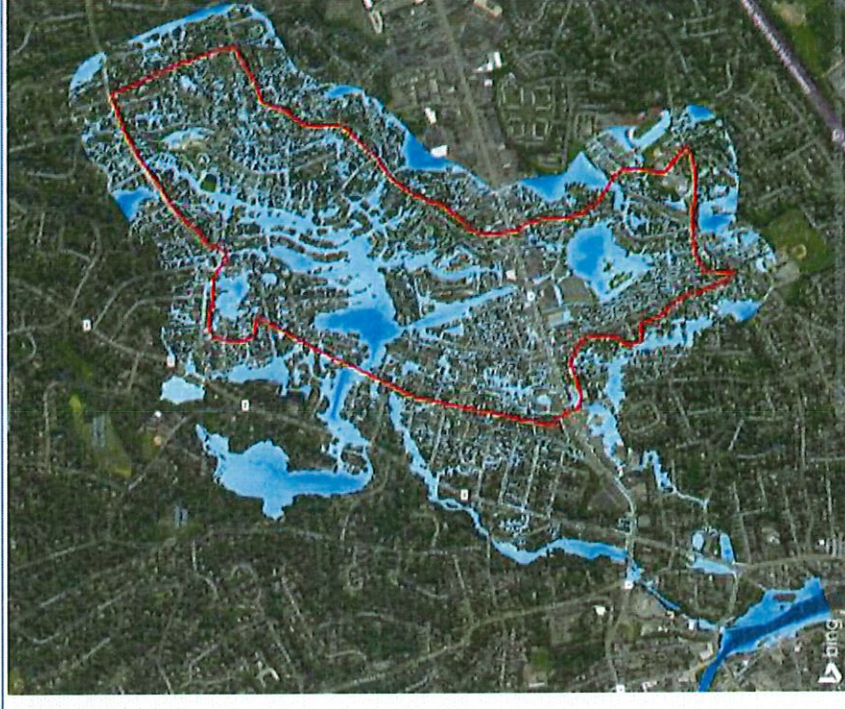
Overview

- Challenge Summary
- Path to Solutions
 - Control flood volume with storage
 - Eliminate flooding with better conveyance to storage
 - Eliminate flooding with better conveyance to river
- Study Challenges
- Model Status
- Results
- Initial Recommendations
- DPW Meeting and Optimized Alternatives

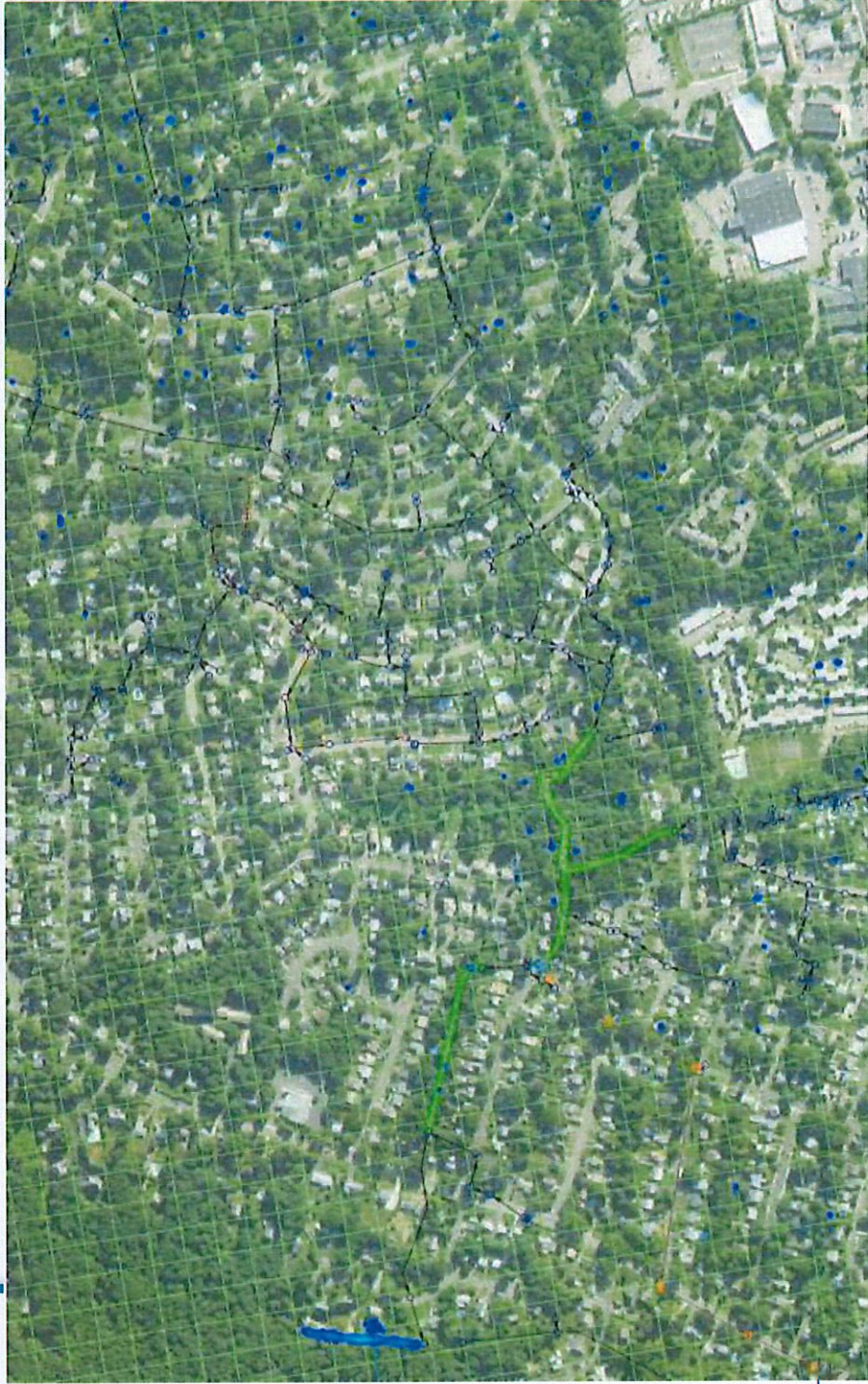


Challenge Summary

- Design Storm 4% Annual Chance Event
 - 25-year storm
 - 6.39" of rain in 24-hour period
- Study Area
 - Approximately 400 acres
- Current Floodplain
 - Approximately 133 acres
 - Average depth of 0.9 feet
- Infiltration 43% (or 2.77 inches)
- Volume of water remaining
 - 121 acre-feet



Coupled 1D/2D Model, Simultaneous pipe & overland flow modeling



Path to a Solution

- Control flood volume with storage
- Eliminate flooding with better conveyance to storage
- Eliminate flooding with better conveyance to river

Control Flood Volume with Storage

- Five initial alternatives
 - Friendly Pond public land only
 - Friendly Pond public and private land
 - Dreamy Hollow
 - Wolfpit School
 - Andrews Field
- Volume they control (percent receiving flood volume held)



Conveyance to Storage

- Rebuild trunk lines to Friendly Pond



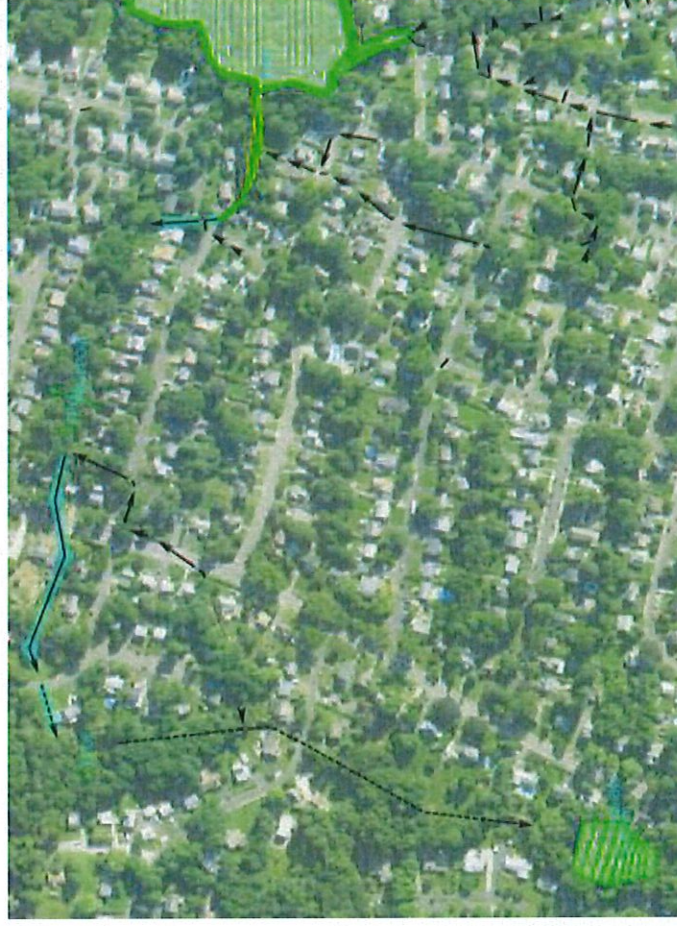
Conveyance to Storage

- Assisi Road
 - New conveyance path
- Assisi Road
 - Pump station
 - Improve backyard drainage



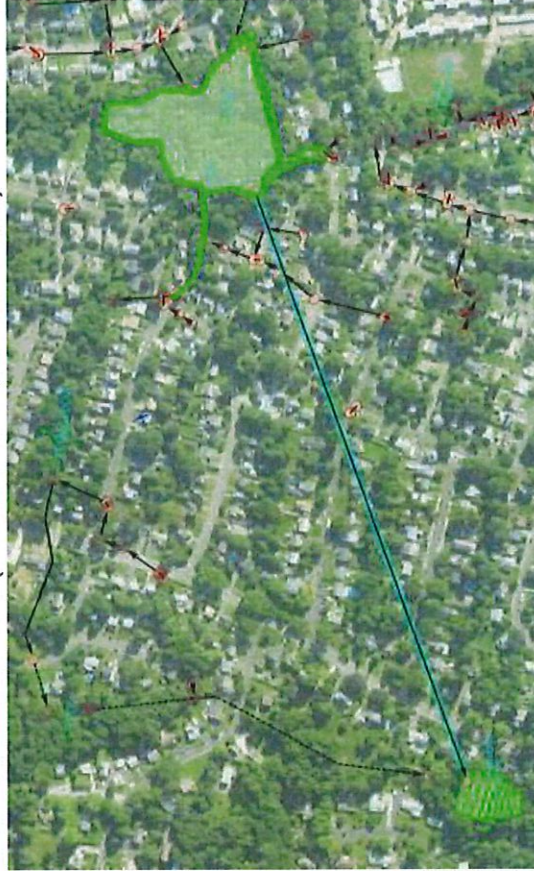
Conveyance to River

- Path Improvement
 - Enlarge Outlet Pipes
 - Dry Hill Road
 - Newton Avenue
 - Remove Dam
 - Betts or Newton Pond Dam



Conveyance to River

- New path from Friendly Pond to downstream location on Betts Brook (route ~2,750 feet)



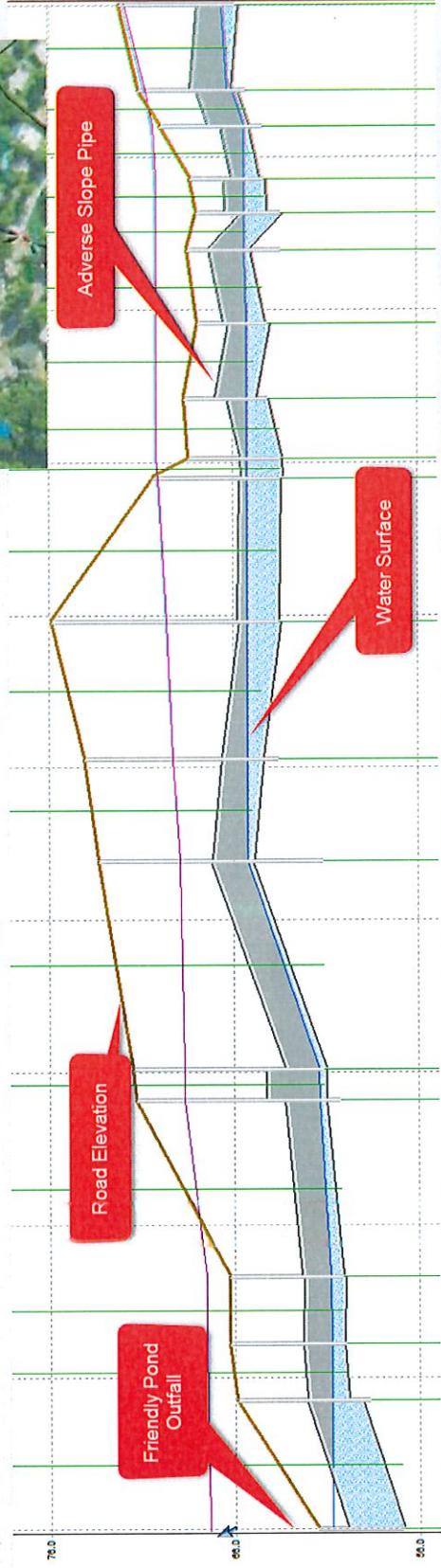
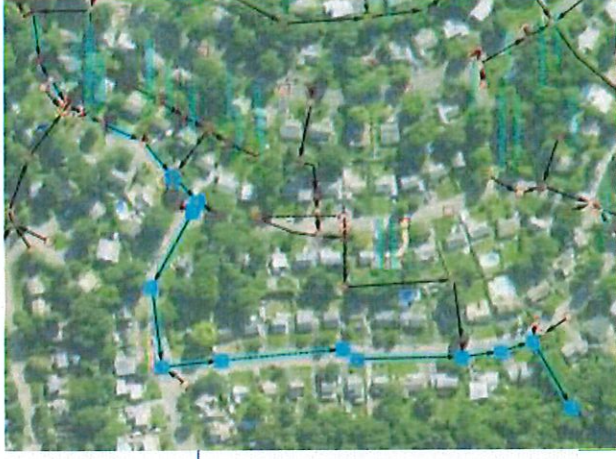
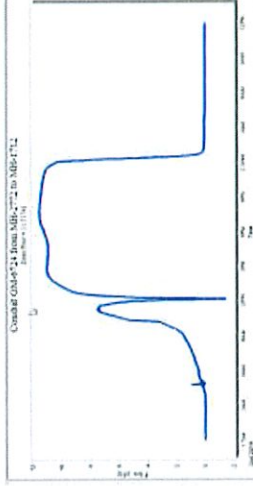
Study Challenges

- Infrastructure Issues
- Backyard Sumps
- Minimal Storage

Infrastructure Issues

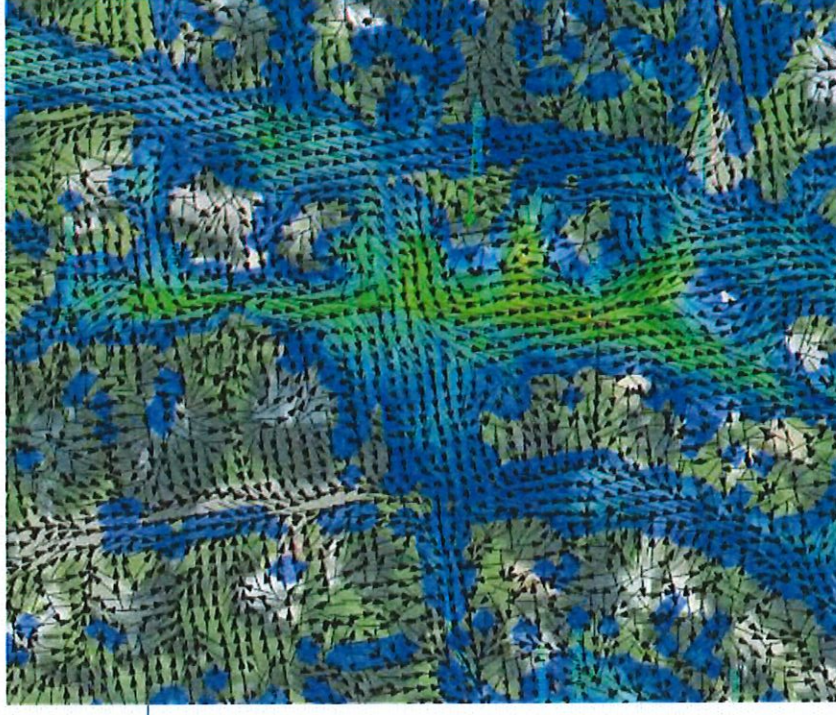
Friendly Road & Saddle Road

2'X3' arch pipe max out at 11.5 CFS



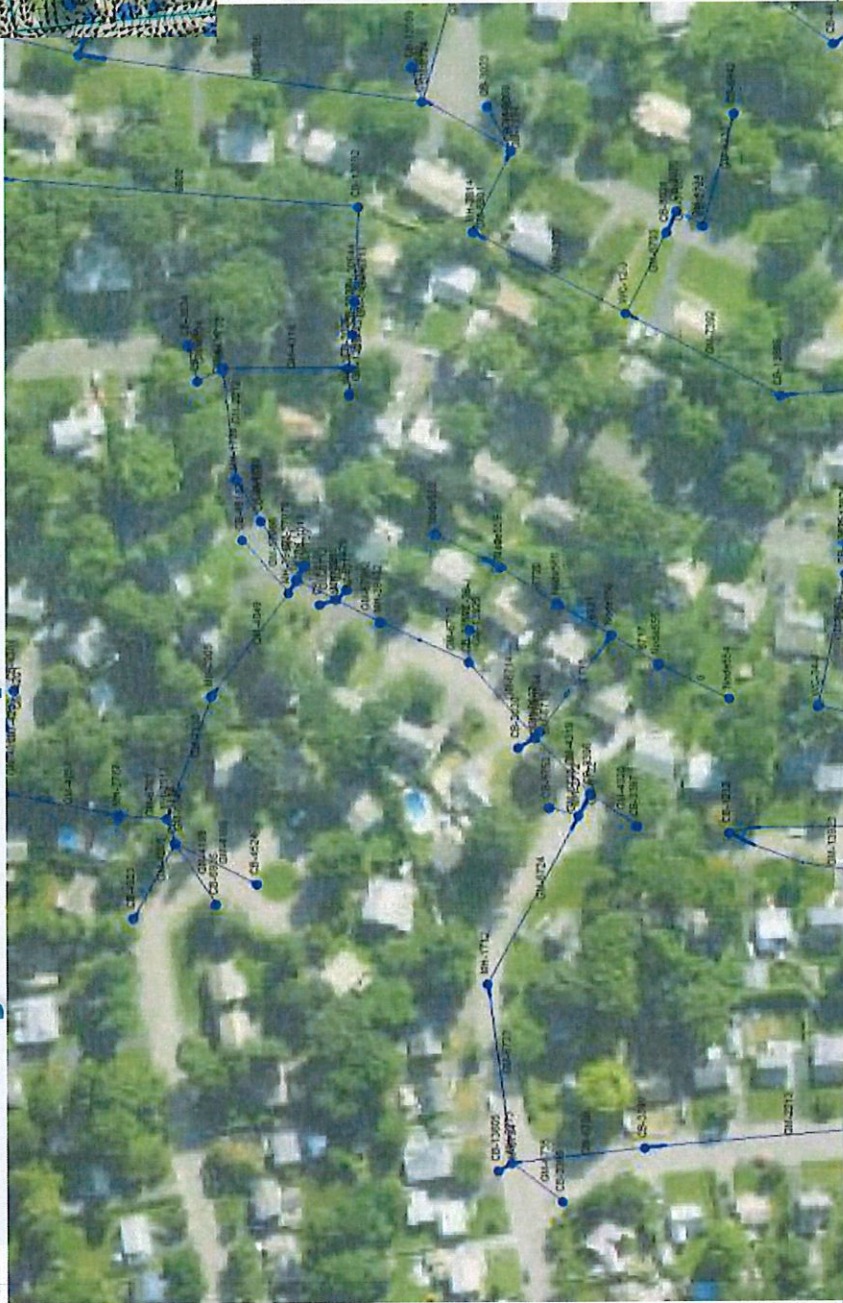
Backyard Sump

- Saddle Sump filled by water from street (2-hours)



- Surrey Sump filled by water from street

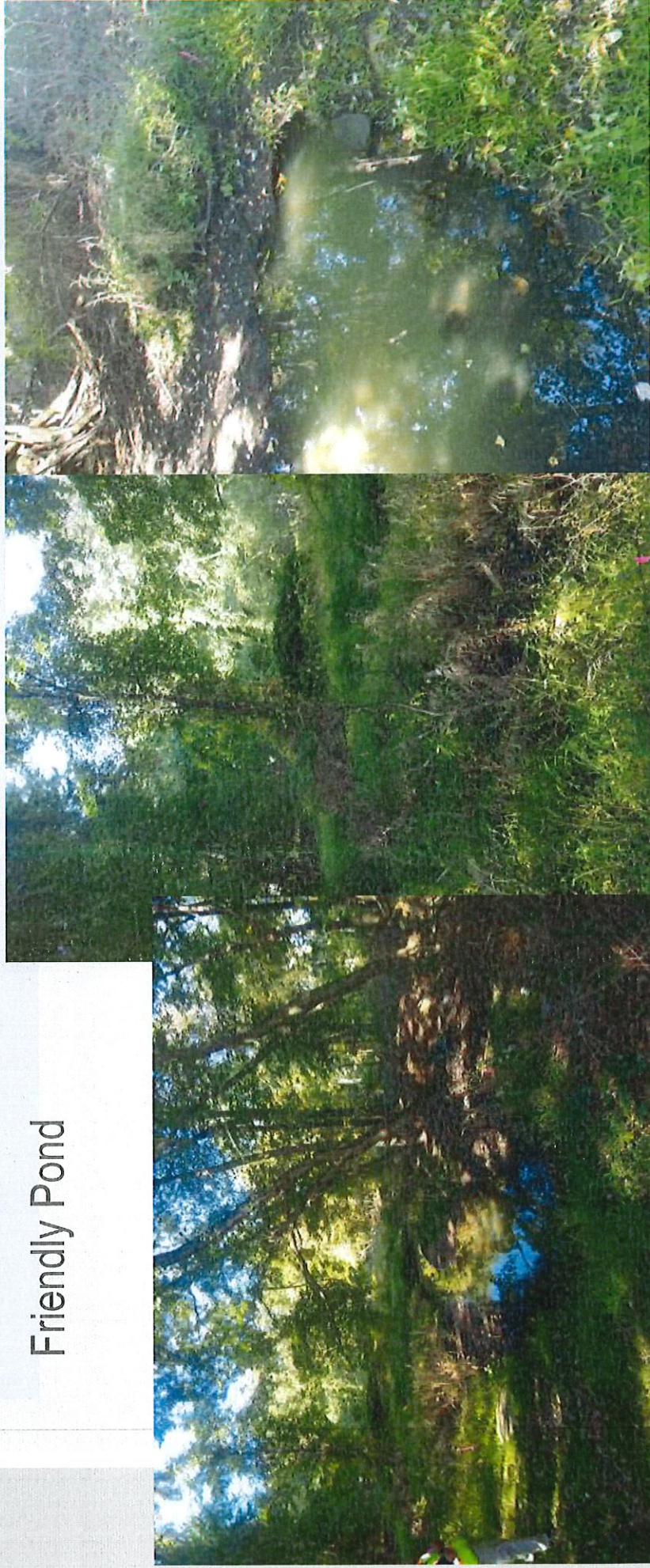
Backyard Sump





Storage Limited by Sediment and Overgrowth

Friendly Pond



Model Status

Model developed as described in Task Order 1A and updated to include:

- Betts Brook hydraulic modeling developed from the confluence with Friendly Pond outfall to the Norwalk River;
 - Brook channel and overbanks simulated by expanding the 2D Grid;
 - Structures developed from MM Study HEC-RAS model;
- Upstream peak flow pulled from HEC-RAS and fitted to unit hydrograph;
- Resident drainage systems behind homes on Saddle and Surrey roads were integrated into model

Model Status

Modeled 22
improvements in
28 scenarios (19
shown)

Proposed Improvement / Scenarios	Estimated Construction Cost ¹	STORAGE				CONVEYANCE FROM FRIENDLY POND				CONVEYANCE TO FRIENDLY POND										
		Andrews Field	DrmyHlw	FPondA	FPondB	WolfpitStorage	ALT010	ALT011	ALT012	ALT013	ALT200	ALT210	ALT230	ALT231	ALT2311	ALT300	ALT310	ALT311	ALT400	ALT410
Friendly Pond restoration public land	\$ 2.37 M			X							X									
Friendly Pond restoration Public and Private Land	\$ 2.90 M				X		X	X	X			X	X	X	X	X	X	X	X	
Dreamy Hollow Detention	\$ 0.77 M		X																	
Andrews Field Detention	\$ 0.24 M	X					X	X	X											
Wolfpit School Storage	\$ 1.35 M					X	X	X	X											
Betts Brook Dam Removal ¹	\$ 0.27 M						X	X	X	X										
Friendly Pond Inlet Upgrade Saddle Road	\$ 0.61 M						X	X	X											
Friendly Pond Large Inlet Upgrade Saddle Road	\$ 0.86 M							X	X	X		X	X	X	X					
Friendly Road Invert Drop, DBL Pipe and Pipe Upstream	\$ 0.24 M																			
Friendly Pond Out at Dry Hill Road	\$ 0.20 M						X	X	X											
Friendly Pond Out at Dry Hill Road Large Upgrade	\$ 0.43 M								X											
Friendly Pond Out at Newton Ave	\$ 1.73 M								X											
Pipe from Friendly Pond to Betts Brook (Direct)	\$ 3.24 M							X												
Between Assisi Way & Surrey Dr. 3' Interconnect and DS	\$ 0.09 M											X	X	X	X					
3' pipe Interconnect Saddle Road	\$ 0.08 M												X	X	X		X	X	X	
4' pipe add and upgrade on Saddle Road	\$ 0.42 M														X		X	X		
Upgraded Trunk to Saddle	\$ 2.81 M															X	X	X		
Free Outfall																		X		
Pump station with upgrade drainage	\$ 1.30 M																		X	
Saddle Road Backyard upgrade	\$ 0.21 M																		X	
Surrey Road backyard upgrade	\$ 0.22 M																			X

1. Costs taken from 2013 "Norwalk Drainage Study, Project Area 1, Betts Pond Brook", by Milone and Macbroom. Cost escalated to 2020 dollars at 3%
2. No allowances for Engineering, Permitting or Construction Administration costs are included in the conceptual construction cost estimates.

Results

- Tracking
 - More than 50 points for depth and dwell detail
 - Seven cross section detail flow across 2D grid



Result Detail: "Feel the Numbers"

Measure Name	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
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Result Summary Tables

- 4% annual chance event (25 –year)
- Maximum and minimum depth reduction by street

Observation Points	AndrewsField	DmyHlw	FPondA	FPondB	WolfPISStorage	AIH010	ALT011	AIH012	ALT013	ALT210	ALT230	ALT231	AIH2311	AIH23111	ALT300	ALT310	ALT311	AIH400	ALT410
Assisis Way	0 - 0	0 - 0	0 - 0	0 - 0	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3	0.1 - 0.3	0 - 0.1	0 - 0.1	0 - 0.1	0 - 0.2	0 - 0.3	0.1 - 1.1	0.5 - 1.1	0.5 - 1.3	0 - 0.4	0.1 - 0.8
Clara Drive	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
Friendly Road	0 - 0	0 - 0	0 - 0	0 - 0	0.1 - 0.1	0.3 - 0.3	0.3 - 0.3	0.3 - 0.3	0.3 - 0.3	0.2 - 0.2	0.2 - 0.2	0.2 - 0.2	0.2 - 0.2	0.2 - 0.2	0.9 - 0.9	0.7 - 0.7	0.8 - 0.8	0.2 - 0.2	0.2 - 0.2
Honeysuckle Drive	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
Leather Wood Road	0 - 0	0 - 0	0 - 0	0 - 0	0.3 - 0.3	0.3 - 0.3	0.3 - 0.3	0.3 - 0.3	0.3 - 0.3	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0.3 - 0.4	0.3 - 0.5	0.3 - 0.5	0 - 0	0 - 0.1
Saddle Road	0 - 0	0 - 0	0 - 0	0 - 0.1	0 - 0.1	0.1 - 0.3	0.1 - 0.3	0.2 - 0.4	0.1 - 0.3	0 - 0.2	0 - 0.2	0 - 0.2	0.1 - 0.2	0.1 - 0.3	0.1 - 0.7	0.1 - 0.6	0.1 - 0.9	0.1 - 0.4	0.1 - 0.8
Stilwin Rd	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0.1	0 - 0.1	0 - 0.1	0 - 0	0 - 0
Surrey Road	0 - 0	0 - 0	0 - 0	0 - 0	0.1 - 0.5	0.2 - 0.5	0.2 - 0.5	0.2 - 0.5	0.2 - 0.5	0 - 0.1	0 - 0.1	0 - 0.1	0 - 0.1	0 - 0.1	0.3 - 1.1	0.3 - 1	0.3 - 2	0 - 0.4	0 - 0.6
Theodore Lane	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0	0 - 0
Thorn Apple Way	0 - 0	0 - 0	0 - 0	0 - 0	0.1 - 0.2	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	0.1 - 0.2	0.1 - 0.2	0.1 - 0.2	0.1 - 0.2	0.1 - 0.2	0.7 - 1	0.6 - 0.9	0.7 - 1	0.3 - 0.3	0.4 - 0.4

Sample Results



Preliminary Mitigation Options

Implement a combination of alternatives to significantly reduce flooding in the Wolfpit area.

- Restoration of Friendly Pond
 - Remove overgrowth and sediment
 - Return to wetlands
- Upgrade Friendly and Saddle Road (full replacement) Trunk Line
 - Currently needs repair
 - Drains both sump area on Saddle and Surrey Neighborhood
- Improve Conveyance from Friendly Pond to river
 - Best alternative is new Friendly Pond outlet to dam on river
 - Most economical is Dry Hill Road upgrade

Mitigation Option, Storage

- Restoration of Friendly Pond
 - Remove overgrowth and sediment
 - At ~369 acres the 25-year event will deliver about 111 acre-feet of water
 - Estimated to store 14% of flood volume
 - Cost estimate = \$2.9M
 - Flood Reduction
 - Minimal by self
 - Most reductions downstream
 - May need channel weir to control downstream flow



Mitigation Option, Conveyance to Storage

- Upgrade Friendly and Saddle Road trunk line
 - Upgrade trunk with large box
 - Upgrade trunk with multiple round culverts; or
 - Upgrade with a combination of the two.
- Cost estimate = \$2.0 to \$2.3 million
- Flood Reduction Estimate*
 - Depth 0.1 to 2.0 feet.
 - Dwell time 1.5 to 10 hours

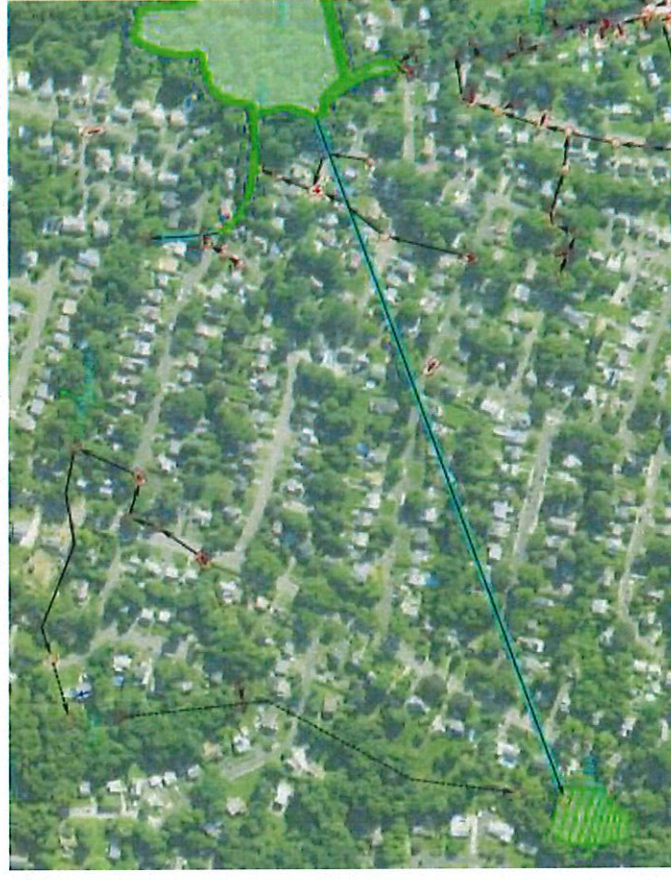
*Estimated from runs ALT23111 and ALT310



Mitigation Option, Conveyance to River

Improve conveyance from Friendly Pond to river

- Friendly Pond outlet varying size box to brook
 - Allow for best control of WSE on friendly Pond
 - Cost estimate = \$3.2 million (routed)
 - Flood Reduction Estimate
 - Depth 0.2 to 1.8 feet.
 - Dwell time -1.0 to 10 hours
- Dry Hill Road Upgrade to 5'X6' box
 - Cost estimate = \$0.2 million
 - Flood Reduction Estimate
 - Depth 0.2 to 1.1 feet.
 - Dwell time only down stream improvements
- Dam Removal = \$0.3 million

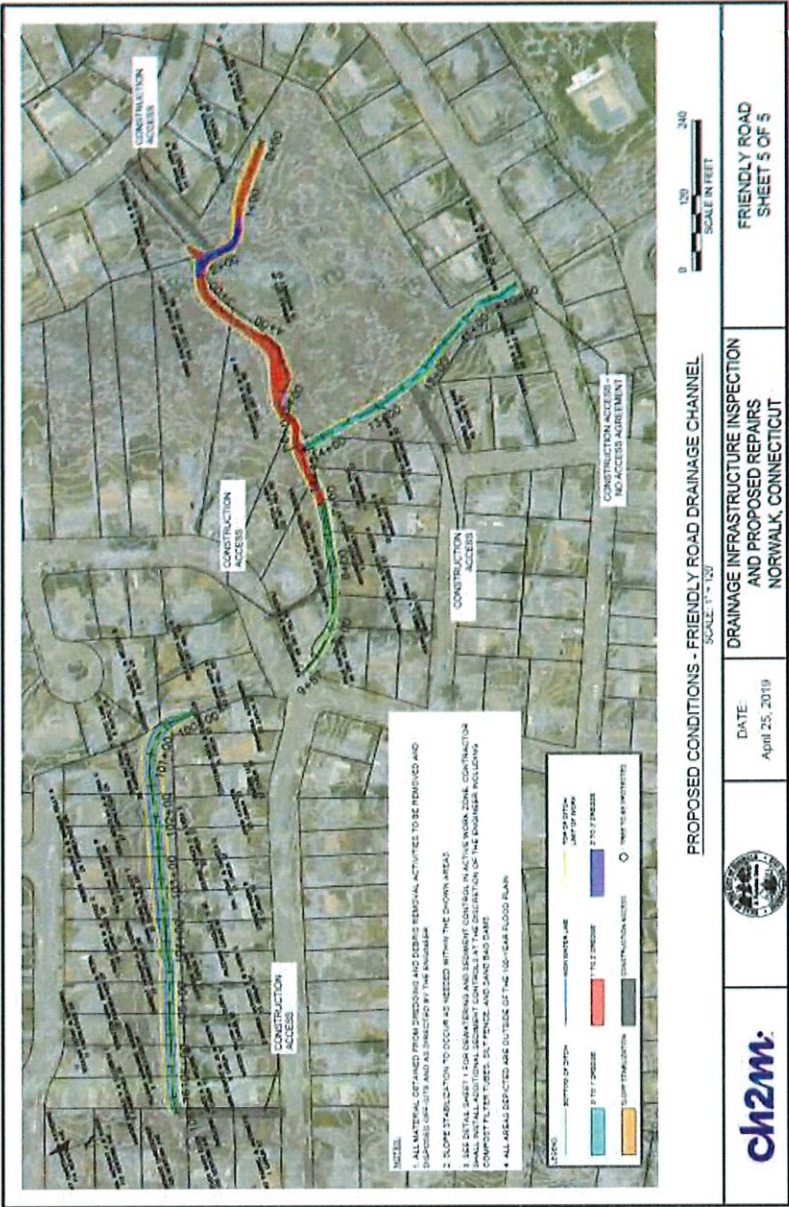


Preliminary Recommendations

- Hybrid plan optimizes impact and keeps cost under \$4 Million with a combination of the flowing mitigation options.
 - Storage
 - Build on what DPW is doing to increase conveyance through Friendly Pond
 - Conveyance To Storage
 - Cost effective Trunk Line Conveyance Updates
 - Conveyance to River
 - New outfall Friendly Pond
 - Dam Removal

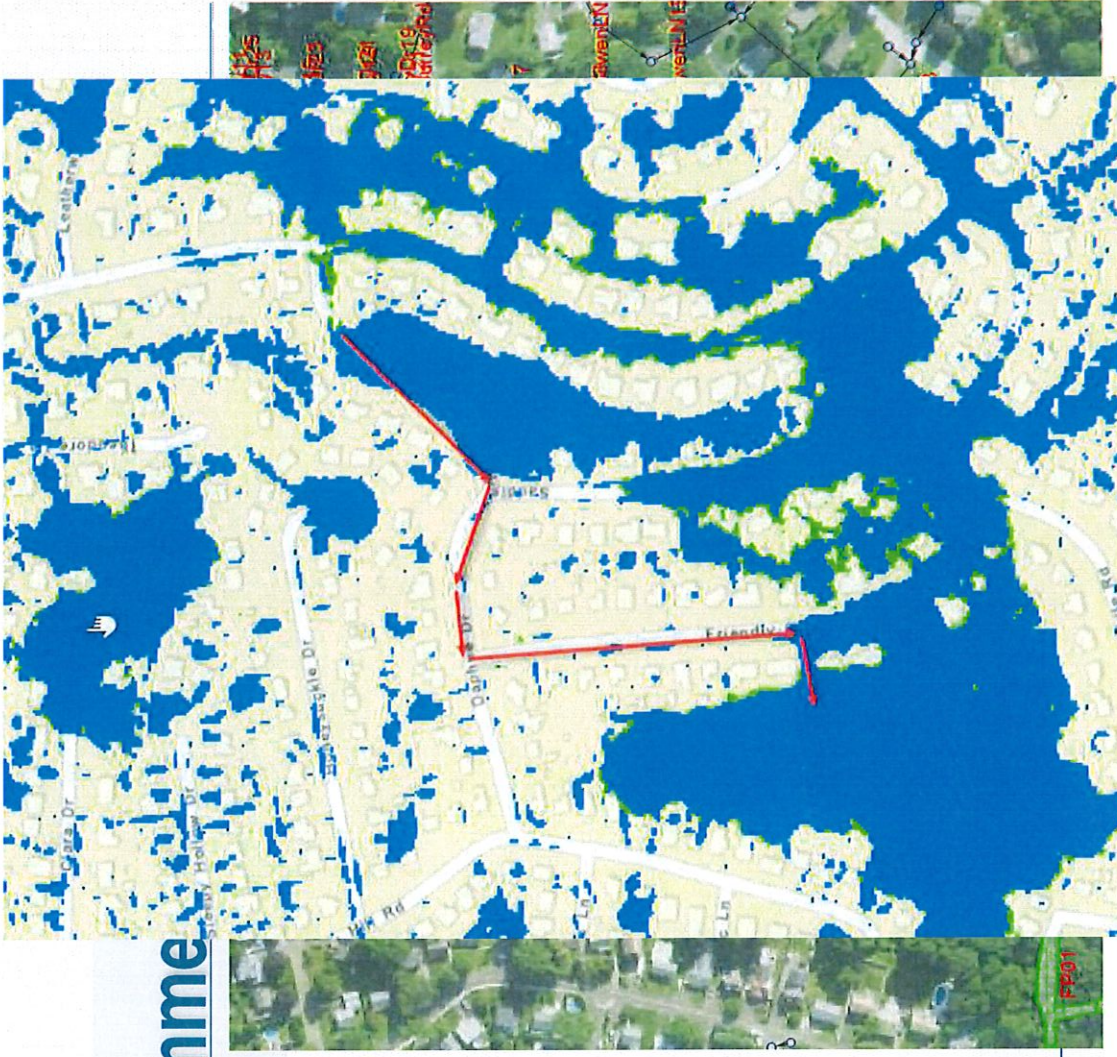
Preliminary Recommendations, Storage

- Build on DPW work increasing conveyance through Friendly Pond



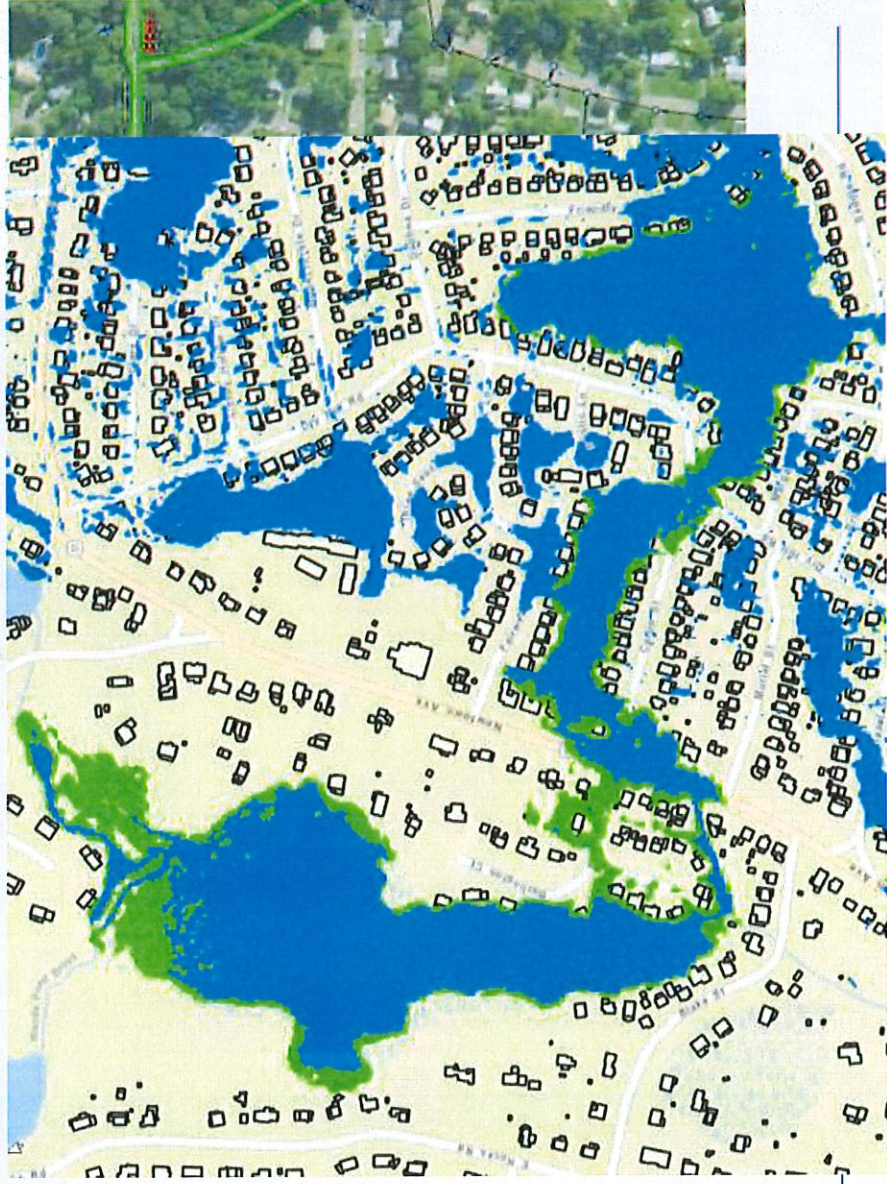
Preliminary Recommendation

- Increase conveyance to Friendly Pond with
 - Trunk line upgrade on Friendly, Daphne, and Saddle Roads
 - Partial trunk upgrade and interconnected to Honeysuckle Dr.
 - Partial truck line upgrade (conveyance issues)



Preliminary Recommendations, To River

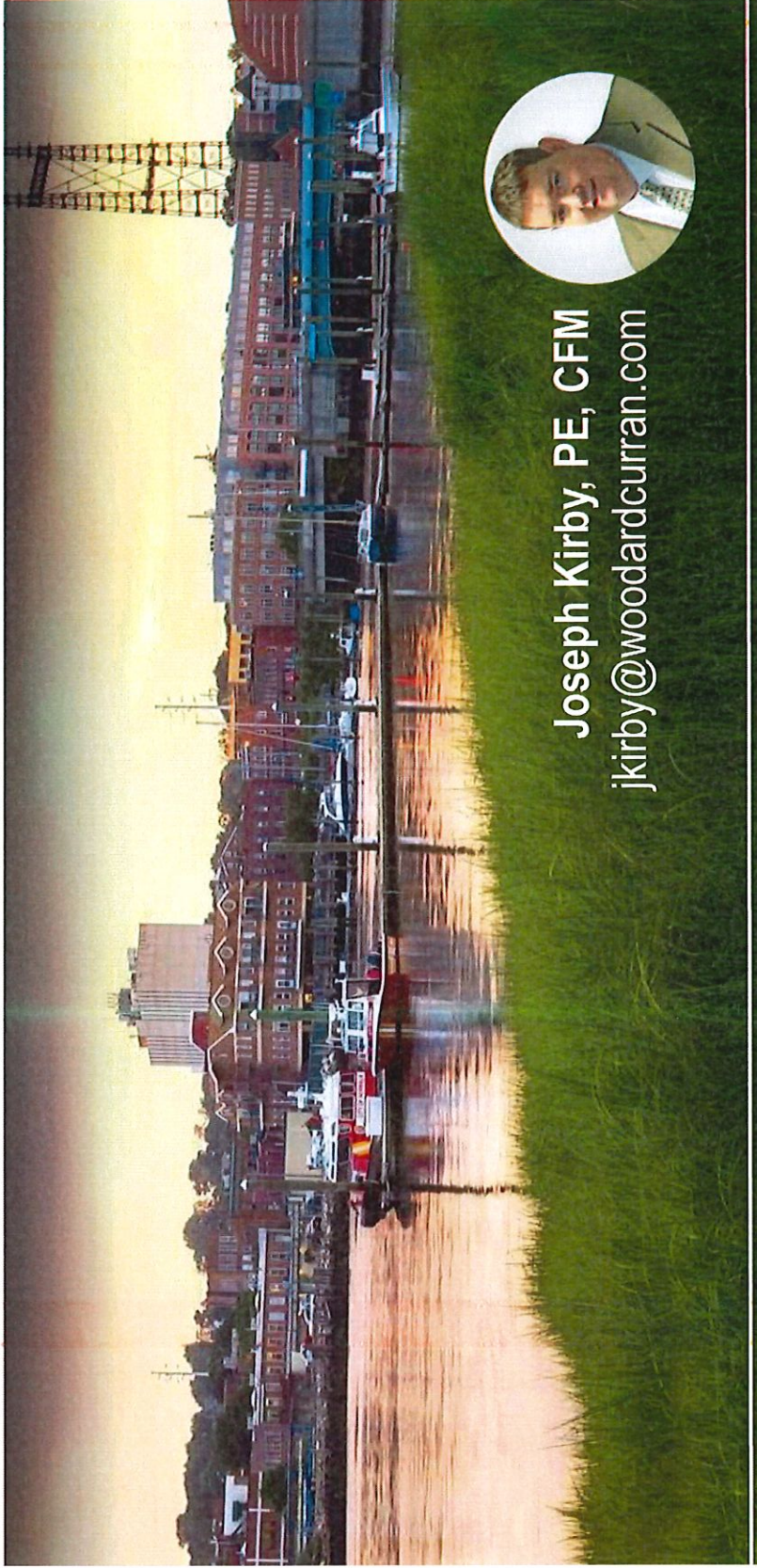
- Increase conveyance from Friendly Pond
 - New outlet
 - Dam removal
- Preliminary Results:
 - More than 30 Homes Impacted
 - 1' drop on upper reach Betts Brook
 - 0.5' drop on Friendly Pond



Next Steps

- Finalize model runs and cost
- Finalize report
- Design and Permitting of Preferred Alternatives

Questions?



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