

CITY OF HIGH POINT

AGENDA ITEM



TITLE: Precision Infrastructure Management – Ponding Mitigation	
FROM: Robby Stone – Public Services Director Melinda King – Asst. Public Services Director	MEETING DATE: September 16, 2024
PUBLIC HEARING: N/A	ADVERTISED DATE/BY: N/A
ATTACHMENTS: Ponding Mitigation Feasibility Analysis & Alterations Proposal Sole Source Justification Form Sole Source Letter	

PURPOSE: A study was completed to identify areas that have been impacted by ponding water on various roadways and/or curb & gutter locations. Multiple locations were identified to be repaired. This work will achieve positive drainage to eliminate standing water in multiple roadway and curb & gutter locations through a sole source repair method by Precision Infrastructure Management.

BACKGROUND: The City of High Point performs roadway and curb & gutter repairs on an annual basis. Multiple areas were identified that held stormwater which is intrusive to the roadways but can also create safety hazards for commuters. Precision Infrastructure Management performs a non-intrusive repair method consisting of altering sections of the gutter pan and asphalt to allow water to flow after storm events. Precision Infrastructure Management possesses a patented technology to perform this work. This technology is less intrusive than digging and replacing while much quicker and at a much lower expense. There are 11 identified sites that can be repaired to reduce ponding by an estimated 90-95%.

BUDGET IMPACT: Funding is available in the FY 2024-2025 budget.

RECOMMENDATION/ACTION REQUESTED: The Public Services Department recommends approval of Precision Infrastructure Management as a sole source vendor and that the appropriate City officials and/or employees be authorized to execute all necessary documents to award the contract to Precision Infrastructure Management in the amount of \$68,808.



City of High Point, NC

PONDING MITIGATION FEASIBILITY ANALYSIS & ALTERATIONS PROPOSAL

Prepared for

Mr. Robby Stone, Director of Public Services

Mr. Justin Gray, Public Services Manager

Ms. Melinda King, Public Services Assistant Director

**PRECISION
INFRASTRUCTURE
MANAGEMENT**

Your Assets. Our Passion.

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PIM | PRECISION
INFRASTRUCTURE
MANAGEMENT

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EXECUTIVE SUMMARY

Using the information provided by **Mr. Robby Stone, Director of Public Services, Mr. Justin Gray, Public Services Manager, and Ms. Melinda King, Public Services Assistant Director**, PIM CS, LLC conducted topographical feasibility analyses of areas causing ponding that is creating accessibility and/or advanced infrastructure degradation. Our feasibility analyses, conducted using survey grade equipment along with in-house ponding methodology models, included seventeen sites for potential modification using PIM’s patent-pending ponding mitigation processes. Eleven sites have viable repair options, four sites are infeasible as the maximum depth of material requiring removal was too deep and would compromise the integrity of the gutter pan and roadway, and two sites were removed from scope upon request.

The sites and approximate scopes are provided in **Table 1** below, and different repair and pricing options for 2 specific sites are in **Tables 2 & 3**:

Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	315 E Green Dr	\$1,580	\$1,896	\$3,476	2	22
2	1000 Forest Hill Dr	\$2,600	\$3,120	\$5,720	5	59
3	John Coltrane Statue - North Side of Catch Basin	\$1,260	\$1,512	\$2,772	2	58
4	John Coltrane Statue - South Side of Catch Basin	\$6,520	\$7,824	\$14,344	12	80
5	MLK Jr Dr & N Centennial St	\$6,247	\$7,497	\$13,744	11	93
6	S Wrenn St & E High Ave - Location 1	\$17,919	\$21,503	\$39,422	32	140
7	S Wrenn St & E High Ave - Location 2	\$2,020	\$2,424	\$4,444	4	82
8	S Wrenn St & E High Ave - Location 3	\$7,708	\$9,250	\$16,958	12	48
9	S Wrenn St & E High Ave - Location 4	\$620	\$744	\$1,364	1	102
10	303 Anaheim St - Infeasible	N/A	N/A	N/A	N/A	N/A
11	601 Nova Ave - Infeasible	N/A	N/A	N/A	N/A	N/A
12	606 Gordon St - Infeasible	N/A	N/A	N/A	N/A	N/A
13	N Main St & E English Rd - Infeasible	N/A	N/A	N/A	N/A	N/A
		\$46,474	\$ 55,770	\$ 102,244	81	684

Option	600 N Main St	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	Ponding & Asphalt Repair - 1:8 Slope	\$7,473	\$13,931	\$21,404	12	56
2	Ponding & Asphalt Repair - 1:12 Slope	\$9,729	\$11,675	\$21,404	16	56
3	Ponding & Asphalt Repair - 1:20 Slope	\$14,241	\$7,163	\$21,404	23	56

Option	1015 Granby Ave	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	Ponding & Driveway Repair - 1:8 Slope	\$6,735	\$11,070	\$17,805	11	122
2	Ponding & Driveway Repair - 1:12 Slope	\$8,093	\$9,712	\$17,805	14	122

We observed that the infrastructure in the project area is in generally good structural condition and is an ideal application for our ponding alteration process. PIM proposes to reduce ponding at thirteen sites, altering sections of gutter pan and asphalt in the project areas, meeting the customer’s requirements, for between **\$60,682 and \$68,808 depending on the repair option that you choose at 600 N Main St and 1015 Granby Ave, and not including the cost of traffic control.**

Should you request the site be repaired, PIM can complete the work in between **13 to 15 workdays with 2 technicians.** While the ponding mitigation project is underway, we will:

- keep the street and intersections in service;
- require no heavy equipment
- remove all debris and recycle the concrete and asphalt waste materials;
- leave the area clean and altered to the approximate new ponding to reduce ponding.

We would be happy to discuss any aspect of this proposal and look forward to working with The City of High Point to enhance its infrastructure improvement and asset management programs, reduce asset degradation, and liability for pedestrian and vehicular accessibility in the project areas.

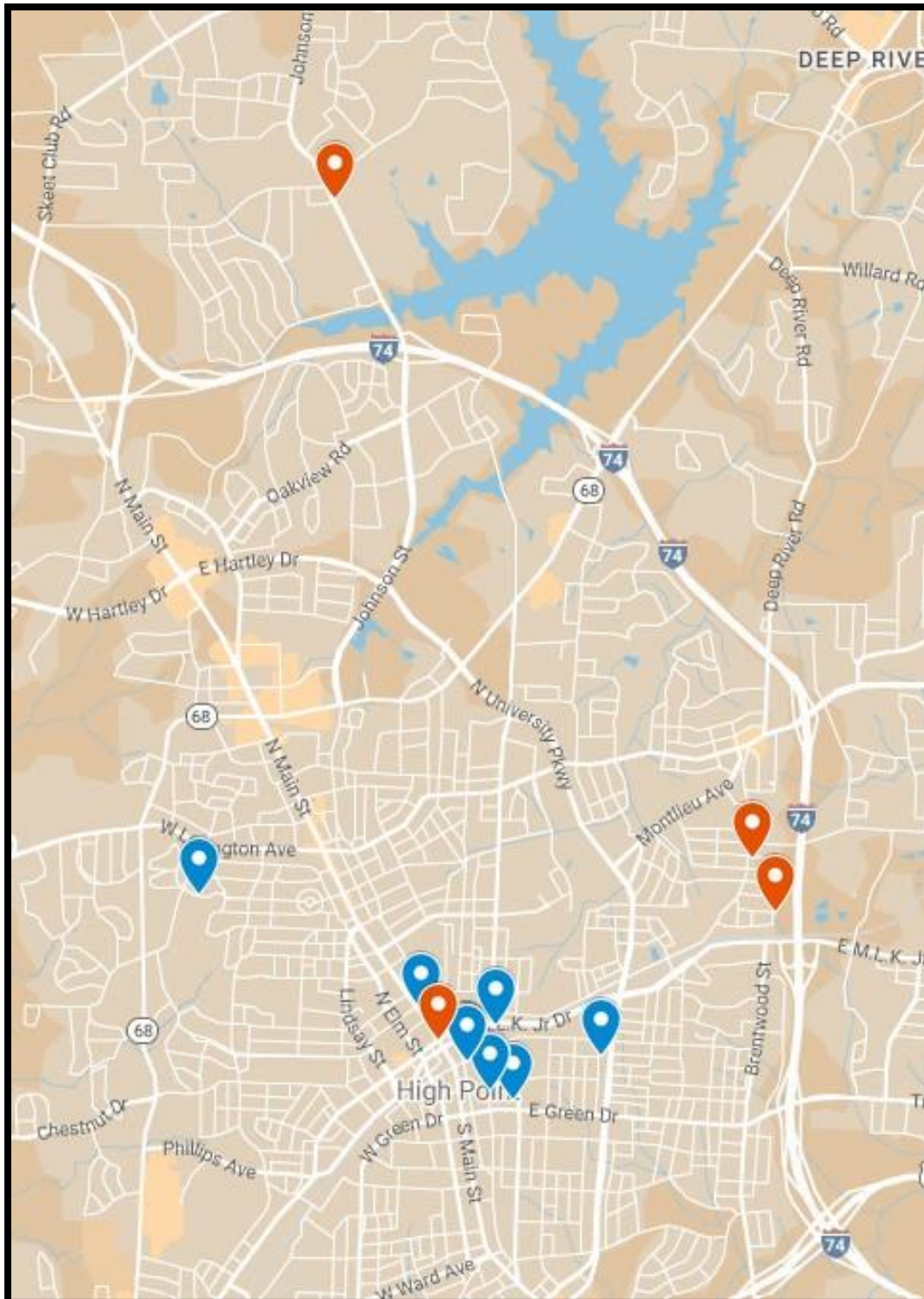
At The City of High Point’s request, PIM CS, LLC will evaluate additional or alternate sites where our ponding mitigation services can help stretch funds for infrastructure repairs in ponding areas.

SCOPE OF SERVICES

PROPOSED PONDING MITIGATION SITES

Blue: Feasible

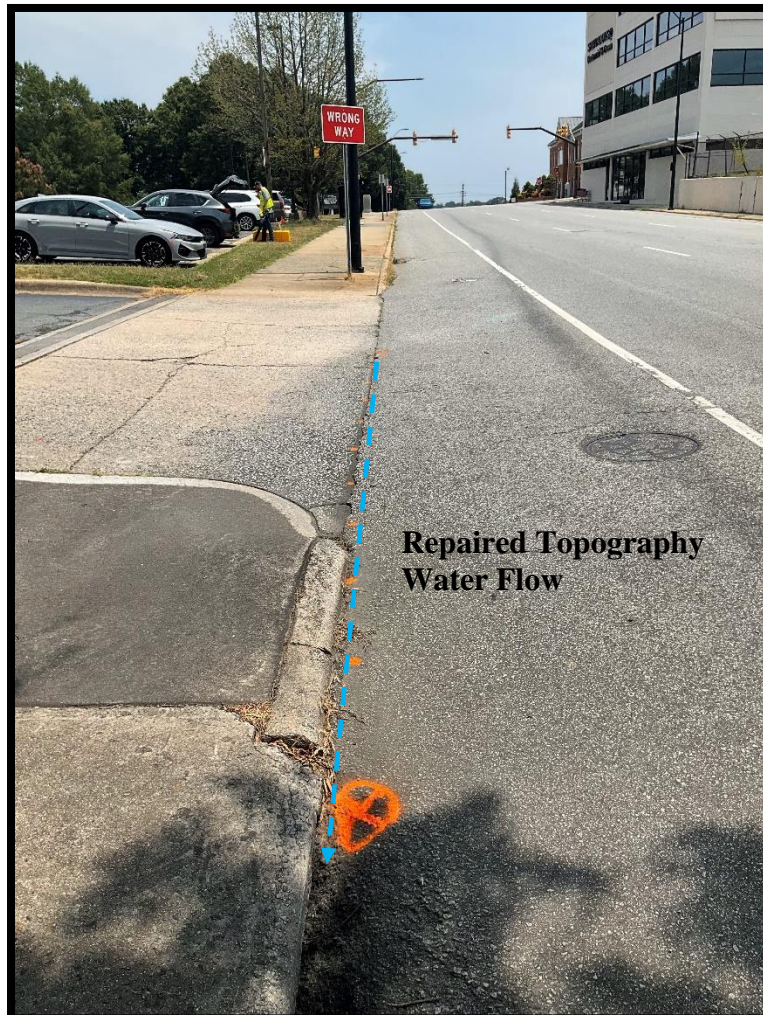
Red: Infeasible



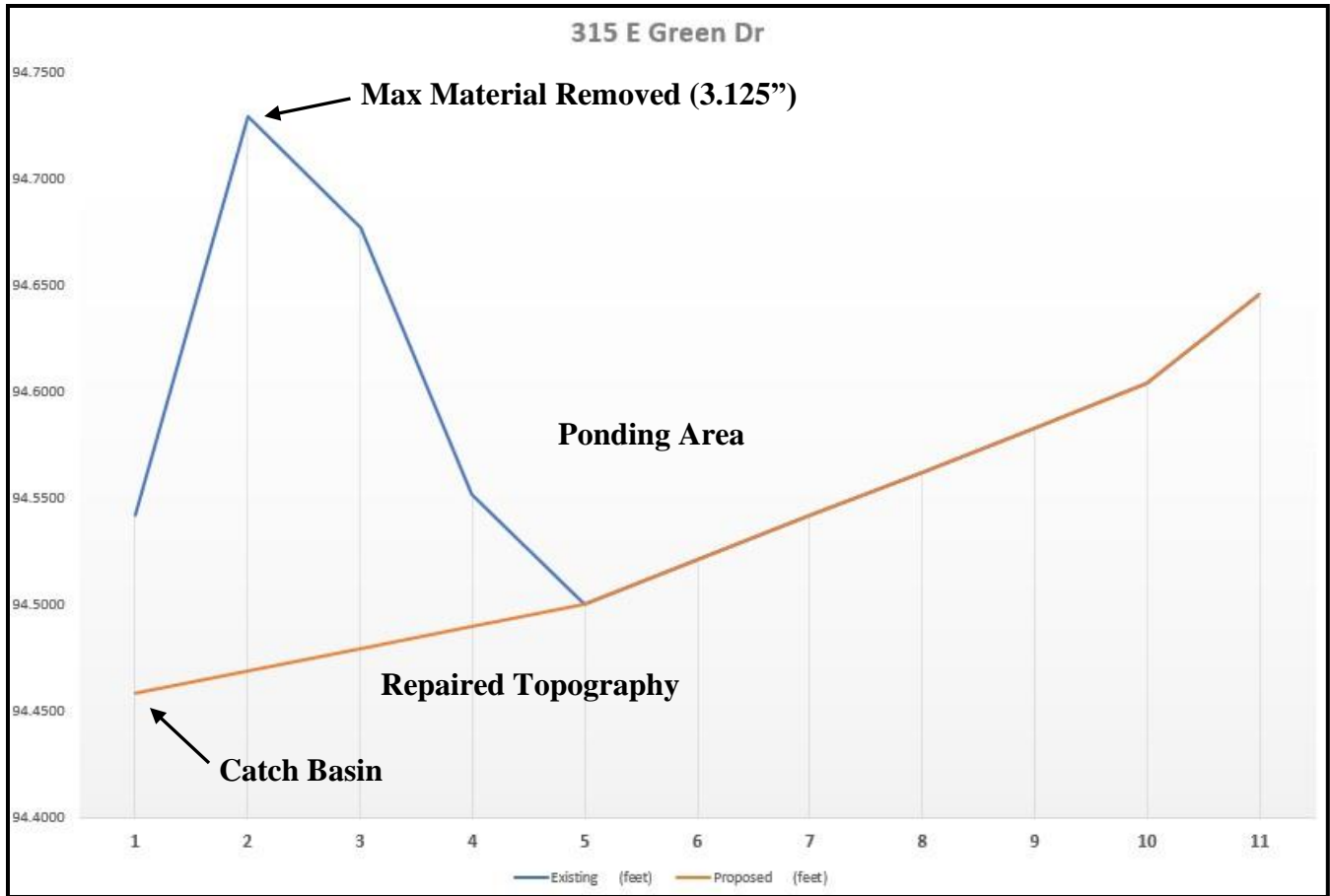
METHODOLOGY – FEASIBILITY ANALYSIS & PREPARING THIS ESTIMATE:

1. Site analysis using survey grade equipment was completed for all sites; internal feasibility analysis was conducted using in-house modeling consisting of the following variables:
 - Ponding
 - Accessibility
 - Tolerances
 - Asset Materials
2. A topographical model was created.
3. An estimate of material removed for each proposed 3D alteration point was prepared based on our experience data base and site ponding feasibility.
4. A fixed bid was prepared giving the flexibility to choose to repair each site, a subset of sites, or all sites in the proposal.

SITE 1: 315 E Green Dr



GRAPH



The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 3.125 inches at station 2 on the graph above.**

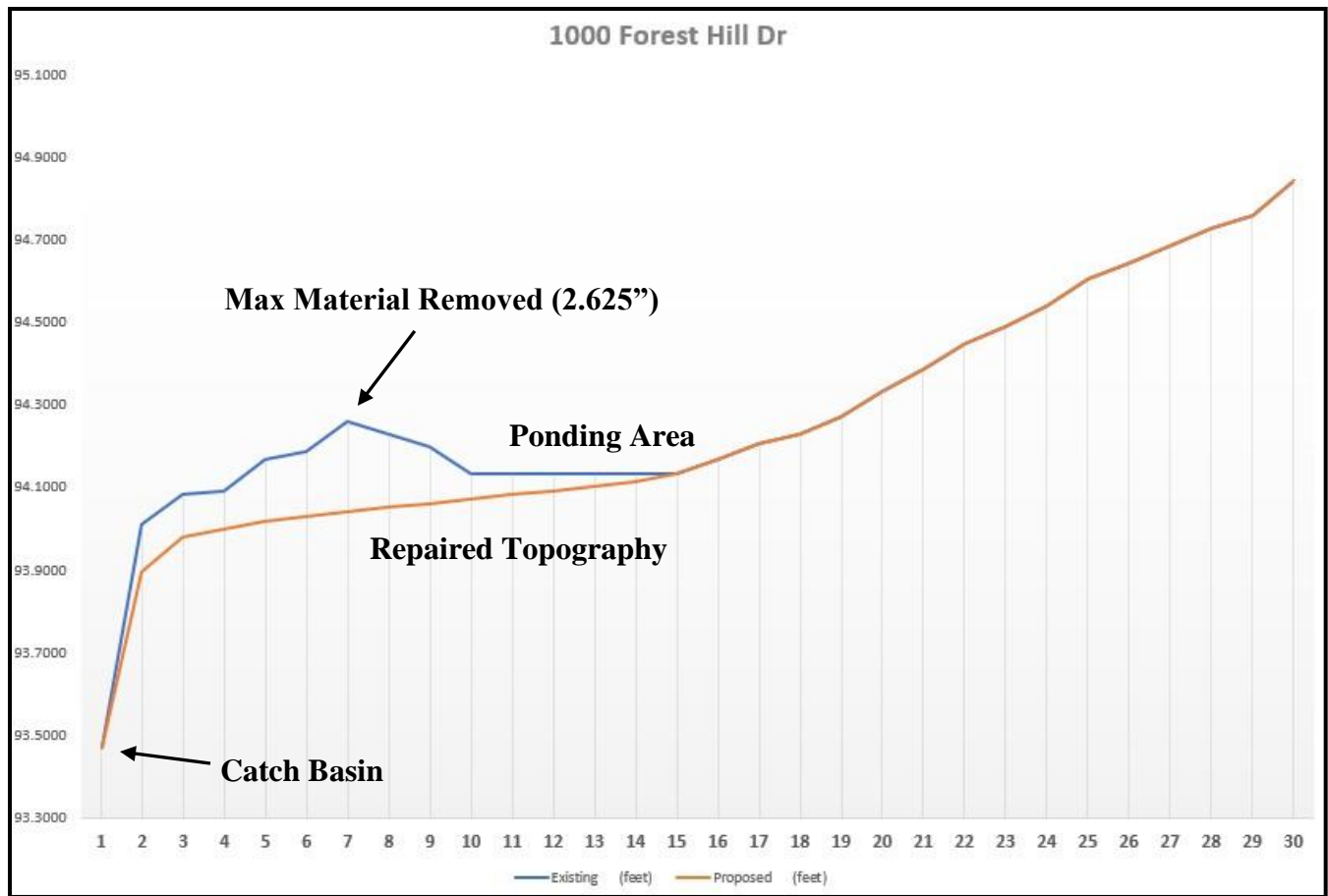
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	315 E Green Dr	\$1,580	\$1,896	\$3,476	2	22

Proposed ponding alterations to this site can be **completed in approximately 2 hours.**

SITE 2: 1000 Forest Hill Dr



GRAPH

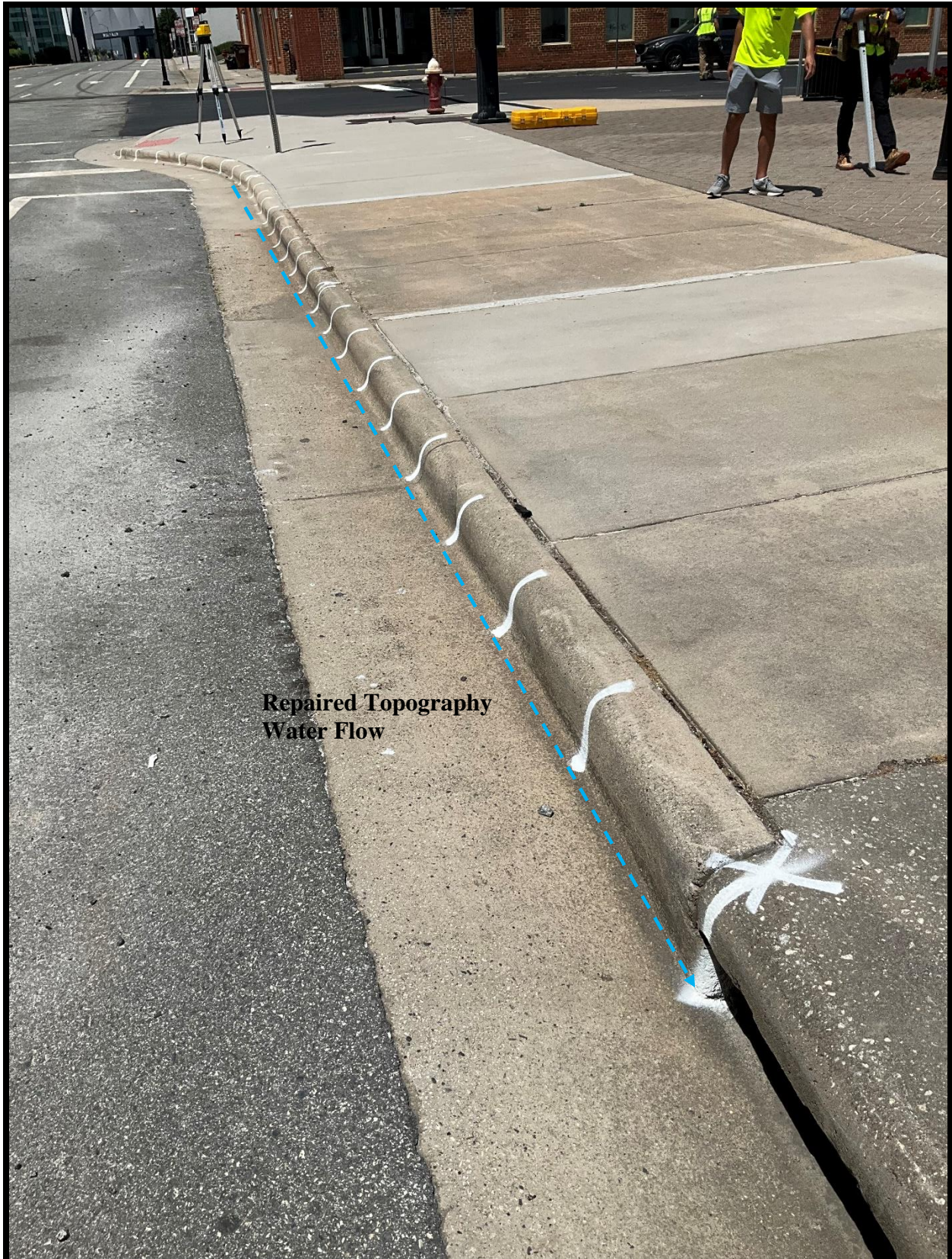


The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 2.625 inches at station 7 on the graph above.**

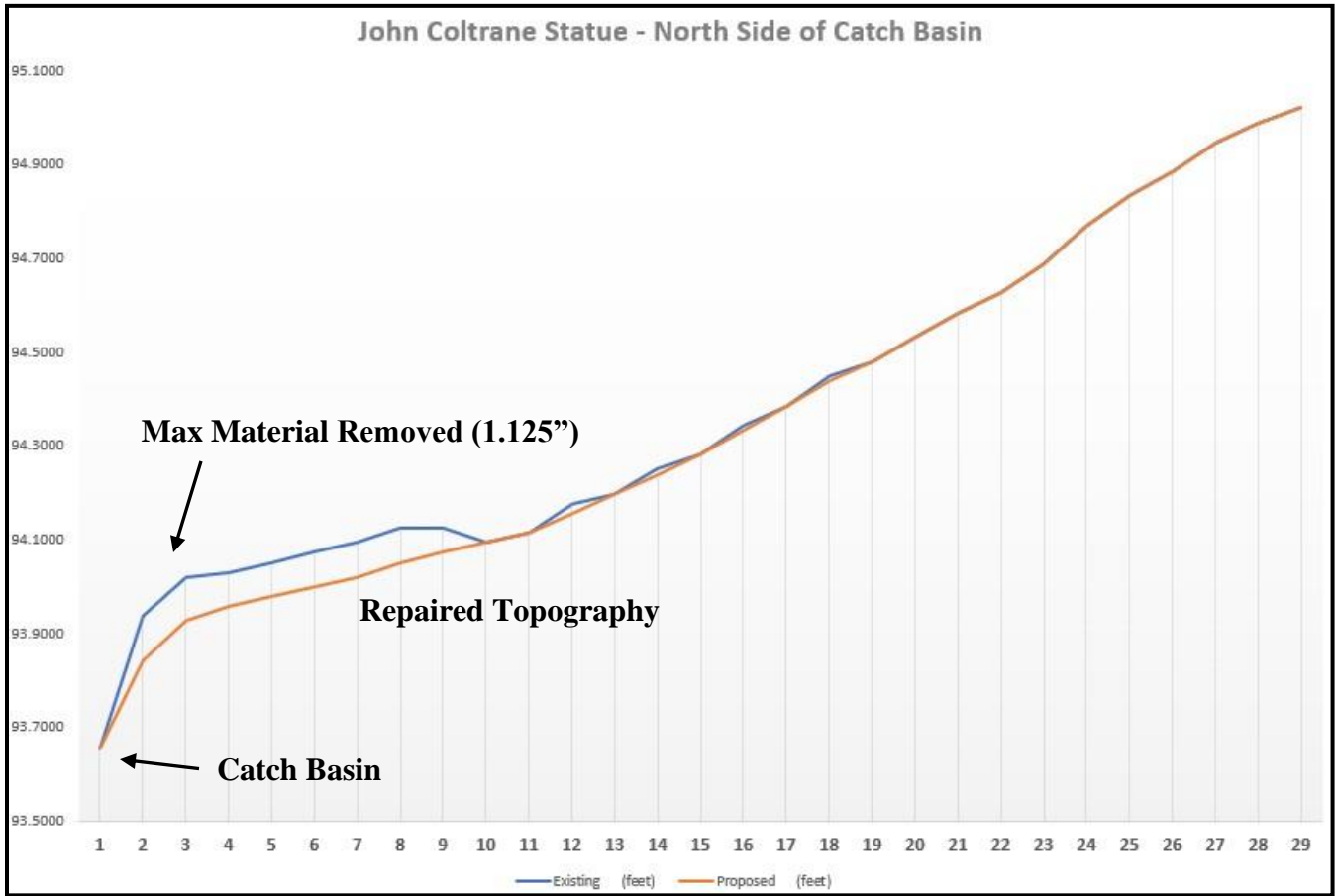
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
2	1000 Forest Hill Dr	\$2,600	\$3,120	\$5,720	5	59

Proposed ponding alterations to this site can be **completed in approximately 5 hours.**

SITE 3: John Coltrane Statue – North Side of Catch Basin



GRAPH



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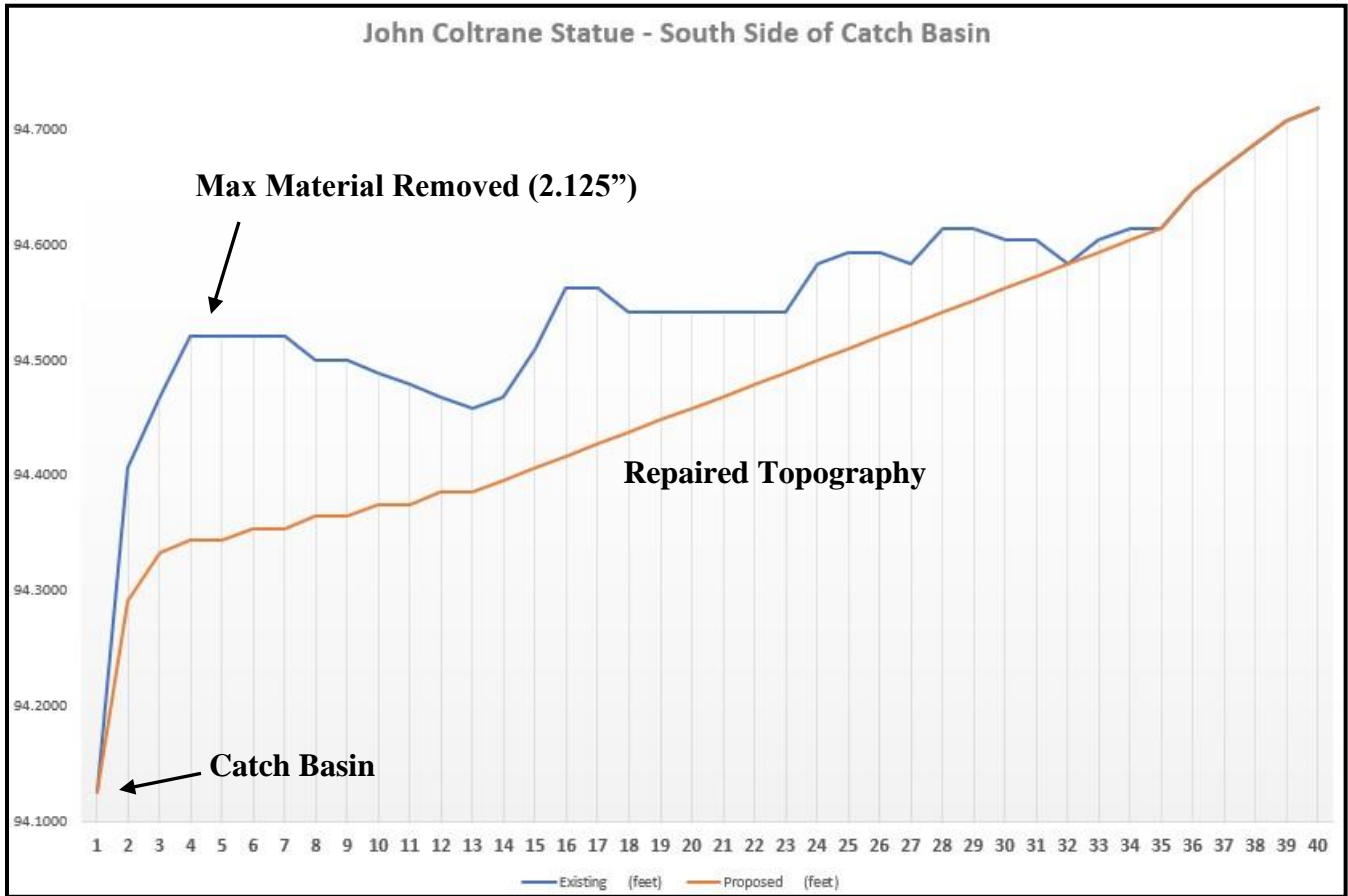
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
3	John Coltrane Statue - North Side of Catch Basin	\$1,260	\$1,512	\$2,772	2	58

Proposed ponding alterations to this site can be **completed in approximately 2 hours.**

SITE 4: John Coltrane Statue – South Side of Catch Basin



GRAPH

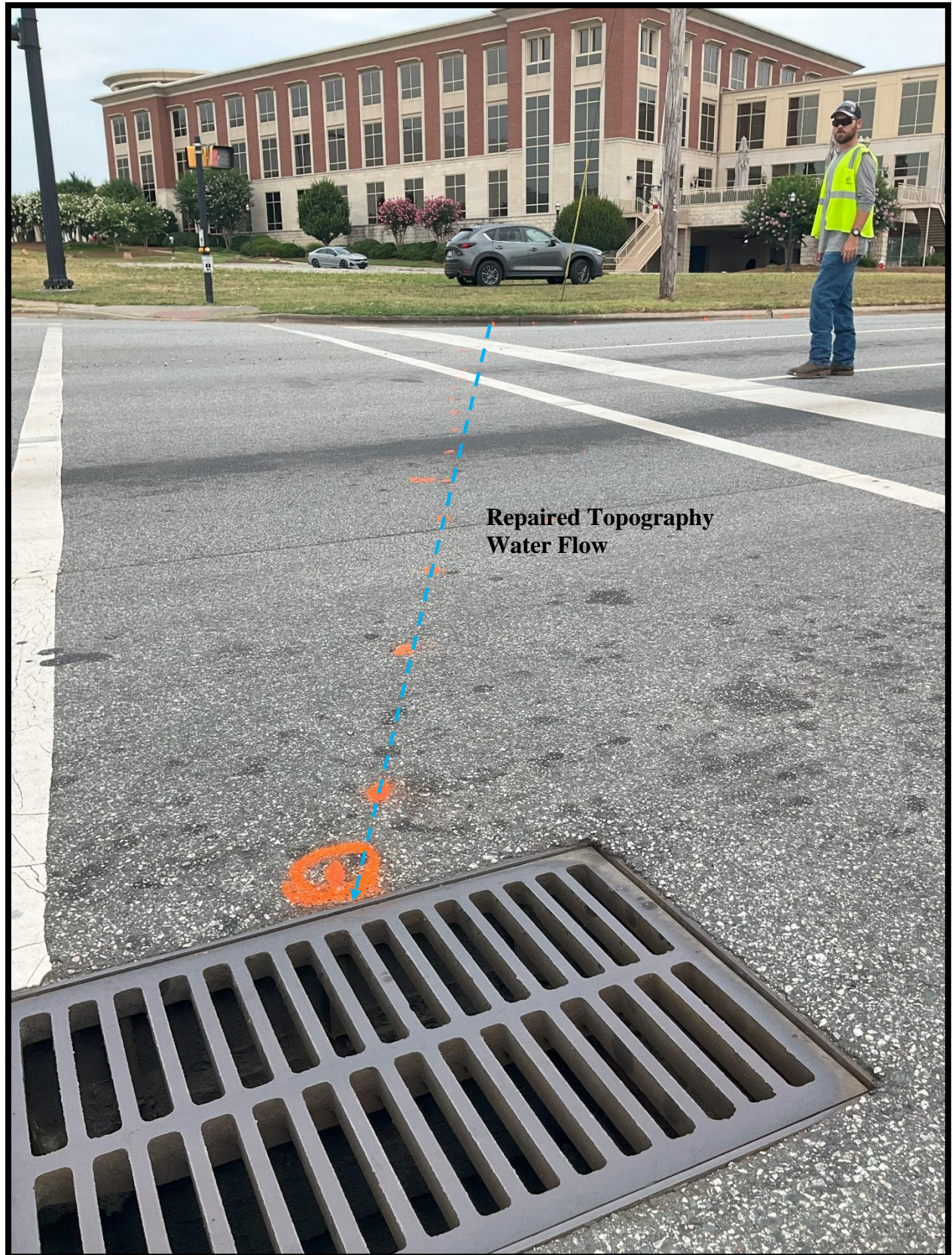


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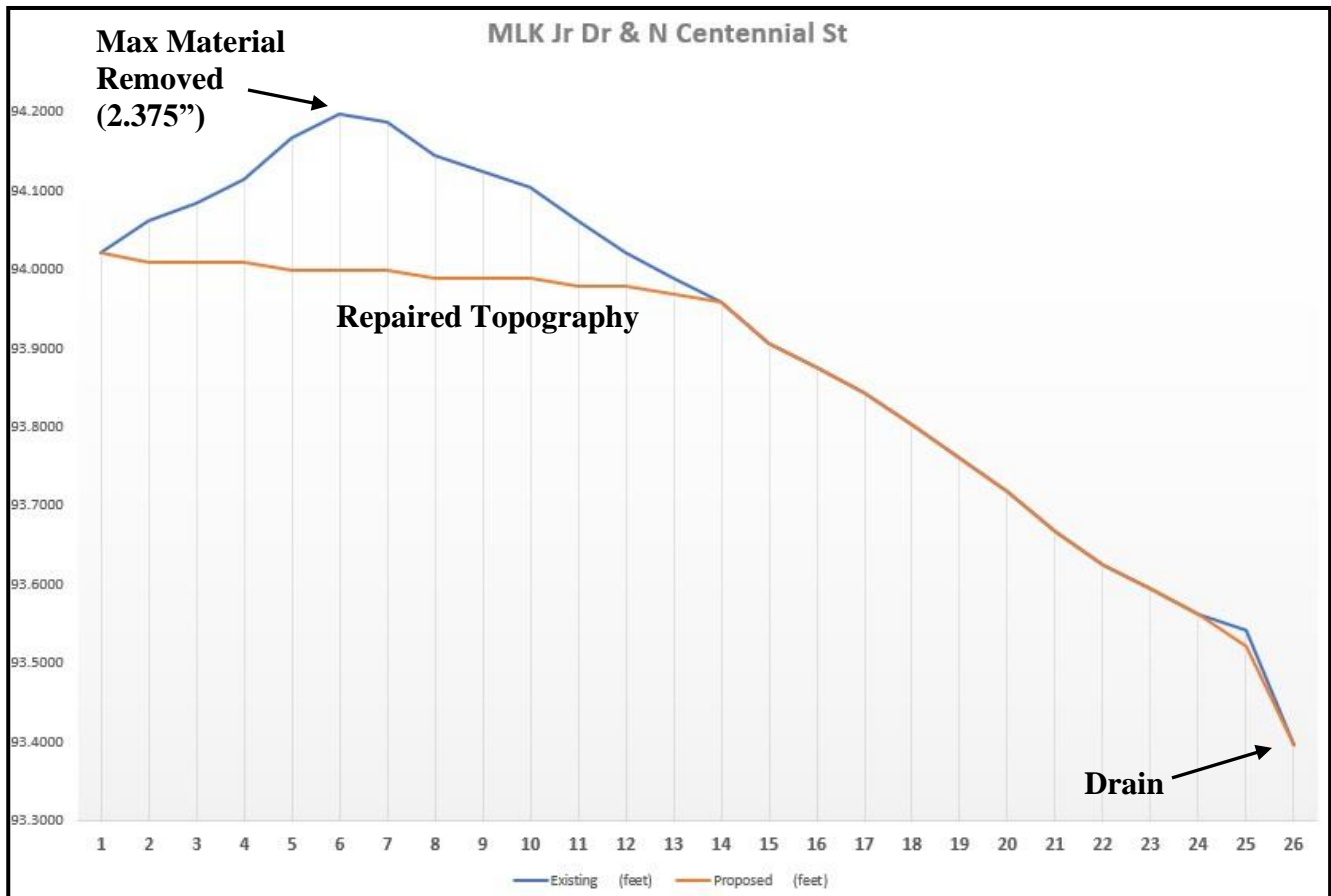
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
4	John Coltrane Statue - South Side of Catch Basin	\$6,520	\$7,824	\$14,344	12	80

Proposed ponding alterations to this site can be **completed in approximately 12 hours.**

SITE 5: MLK Jr Dr & N Centennial St



GRAPH

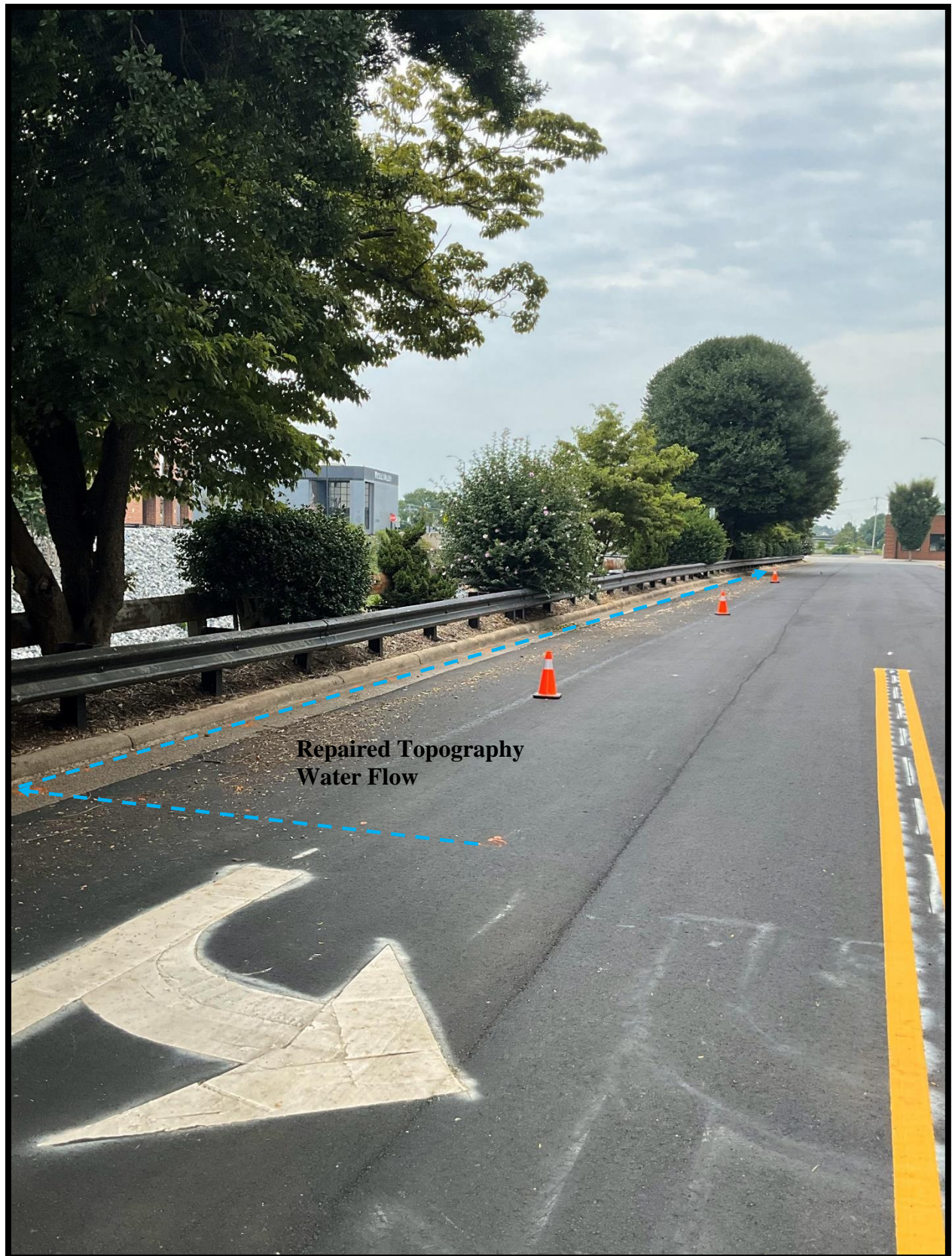


The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 2.375 inches at station 6 on the graph above.**

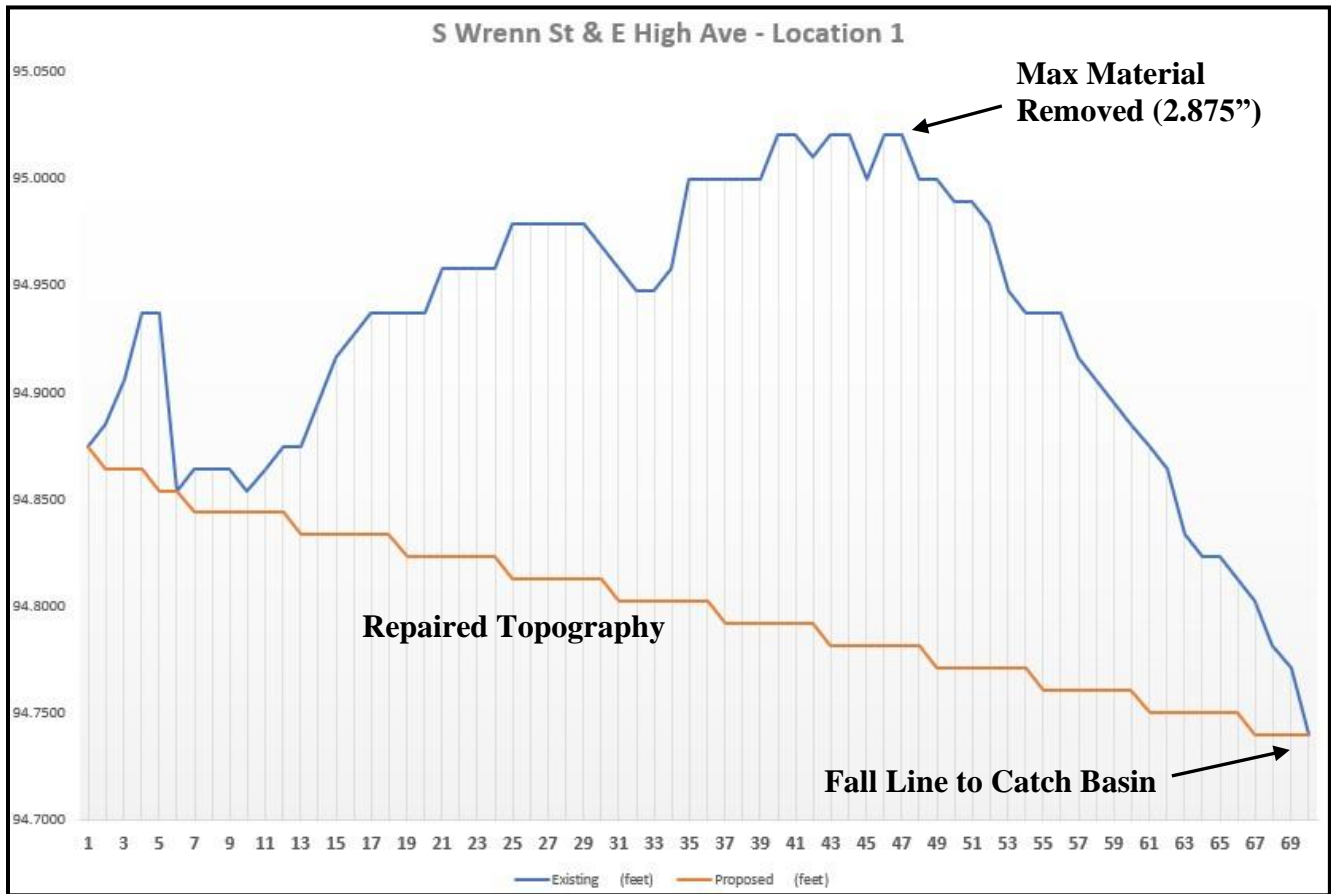
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
5	MLK Jr Dr & N Centennial St	\$6,247	\$7,497	\$13,744	11	93

Proposed ponding alterations to this site can be **completed in approximately 11 hours.**

SITE 6: S Wrenn St & E High Ave – Location 1:



GRAPH



The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 2.875 inches at stations 43, 44, 46 & 47 on the graph above.**

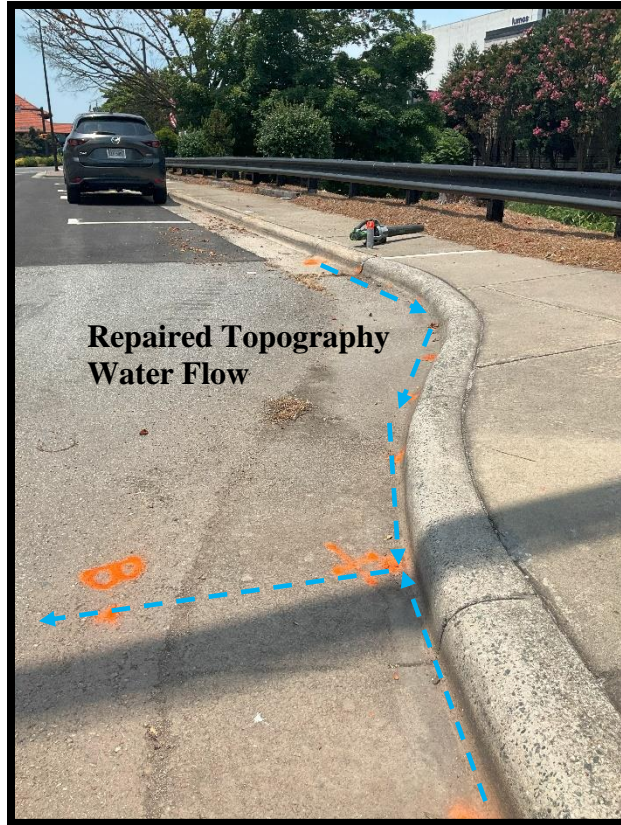
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
6	S Wrenn St & E High Ave - Location 1	\$17,919	\$21,503	\$39,422	32	140

Proposed ponding alterations to this site can be **completed in approximately 32 hours.**

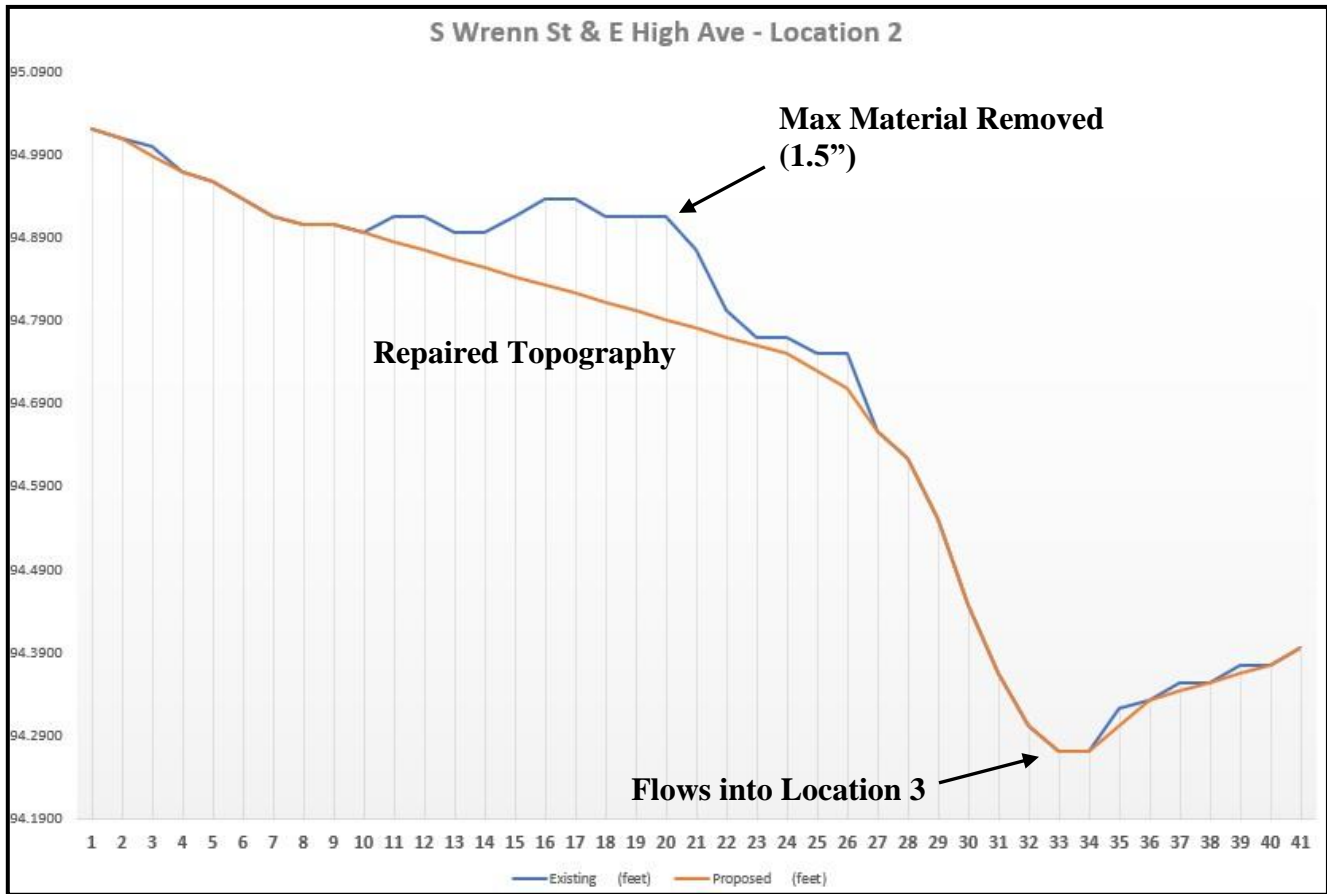
Locations 2 – 4 at S Wrenn St & E High Ave connect to one another, illustrated blow:



SITE 7: S Wrenn St & E High Ave – Location 2:



GRAPH

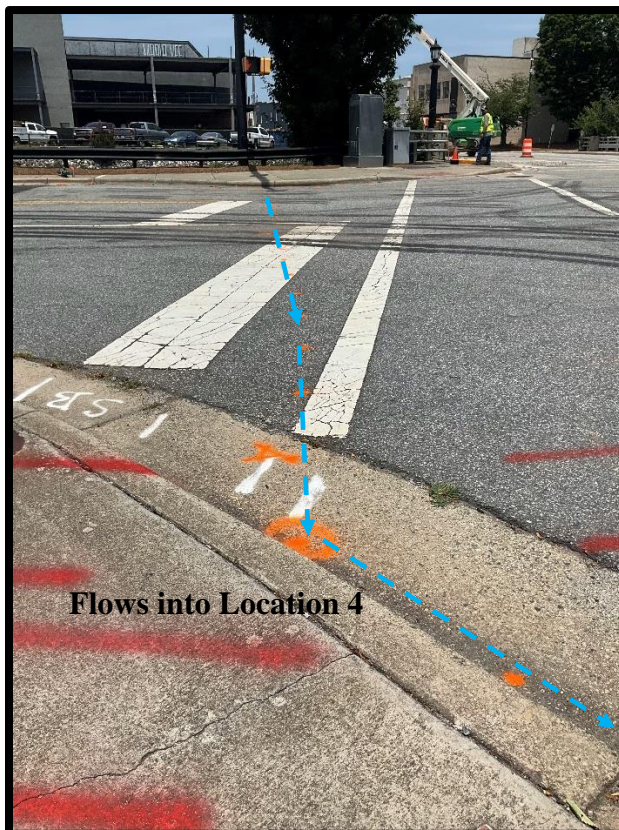
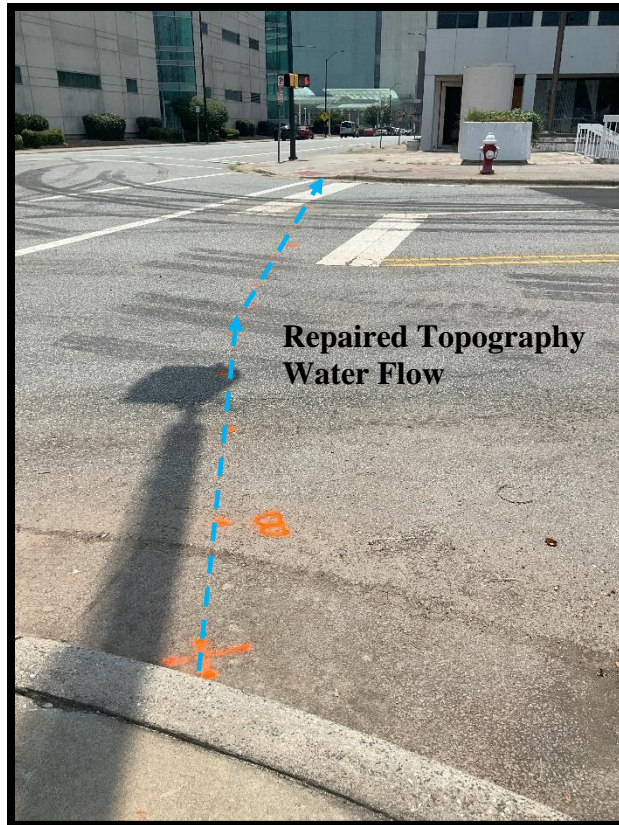


The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 1.5 inches at station 20. The site connects with Location 3 at station 33 on the graph above.**

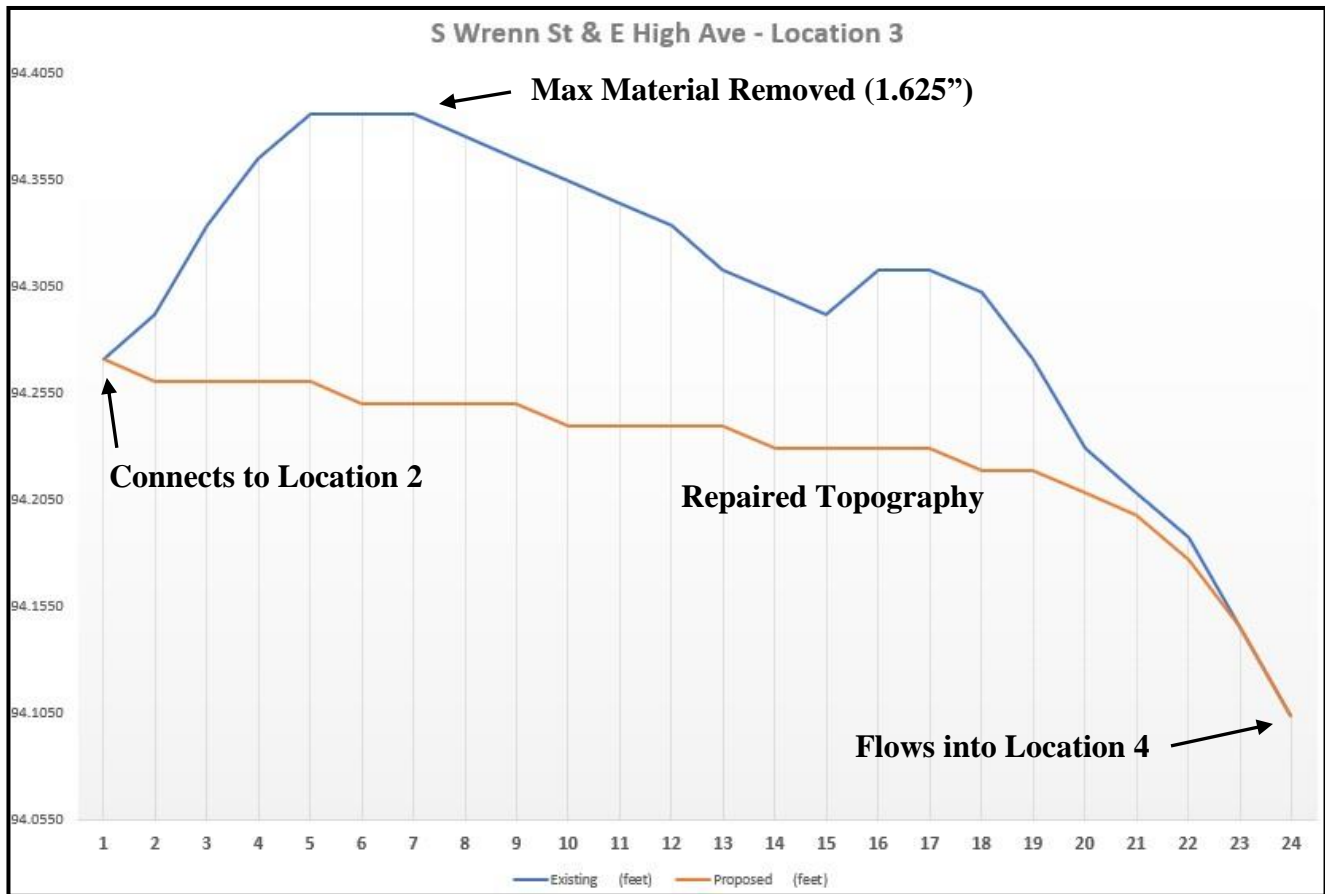
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
7	S Wrenn St & E High Ave - Location 2	\$2,020	\$2,424	\$4,444	4	82

Proposed ponding alterations to this site can be **completed in approximately 4 hours.**

SITE 8: S Wrenn St & E High Ave – Location 3:



GRAPH

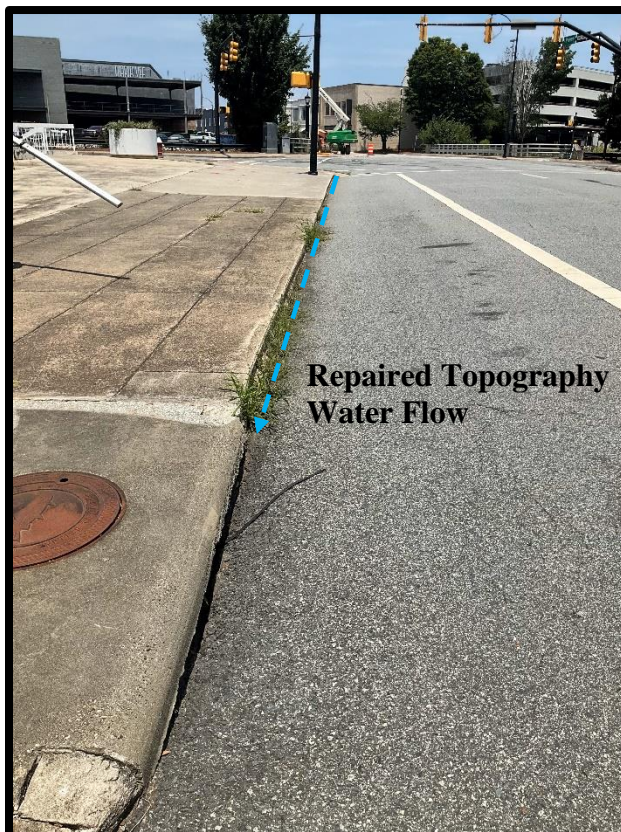
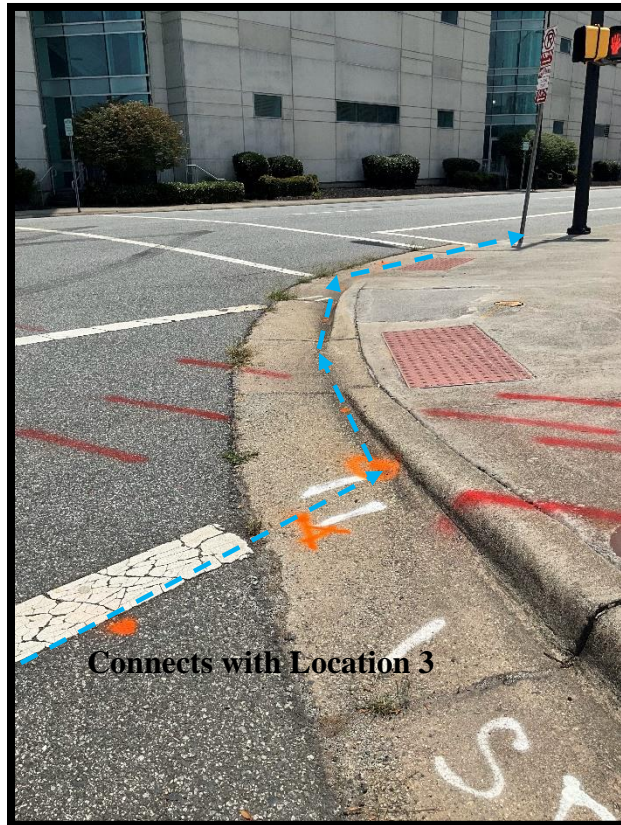


The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 1.625 inches at stations 6 & 7.** The site connects with Location 2 at station 1 and with Location 4 at station 24 on the graph above.

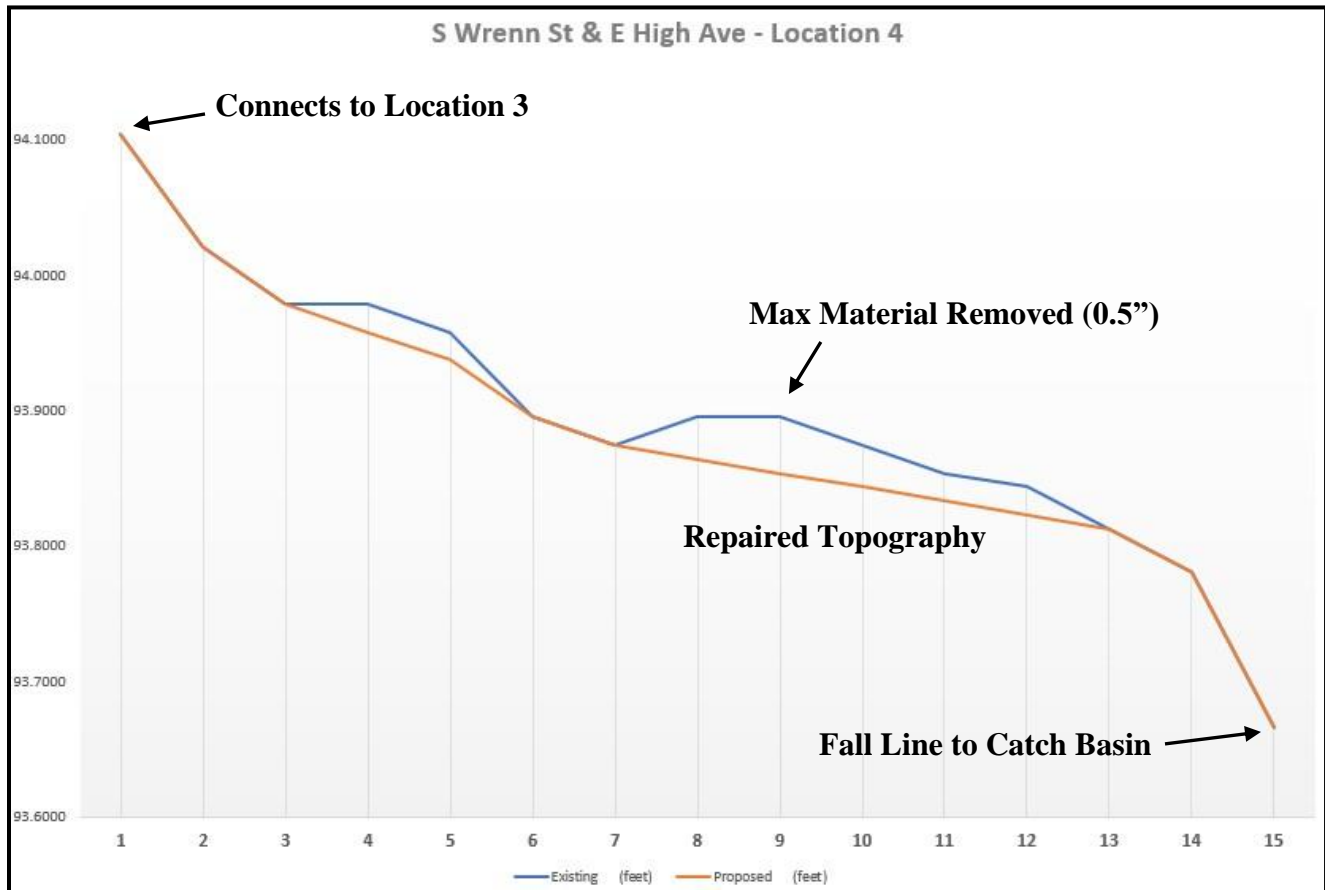
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
8	S Wrenn St & E High Ave - Location 3	\$7,708	\$9,250	\$16,958	12	48

Proposed ponding alterations to this site can be **completed in approximately 12 hours.**

SITE 9: S Wrenn St & E High Ave – Location 4:



GRAPH



The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 0.5 inches at station 9. The site connects with Location 3 at station 1.**

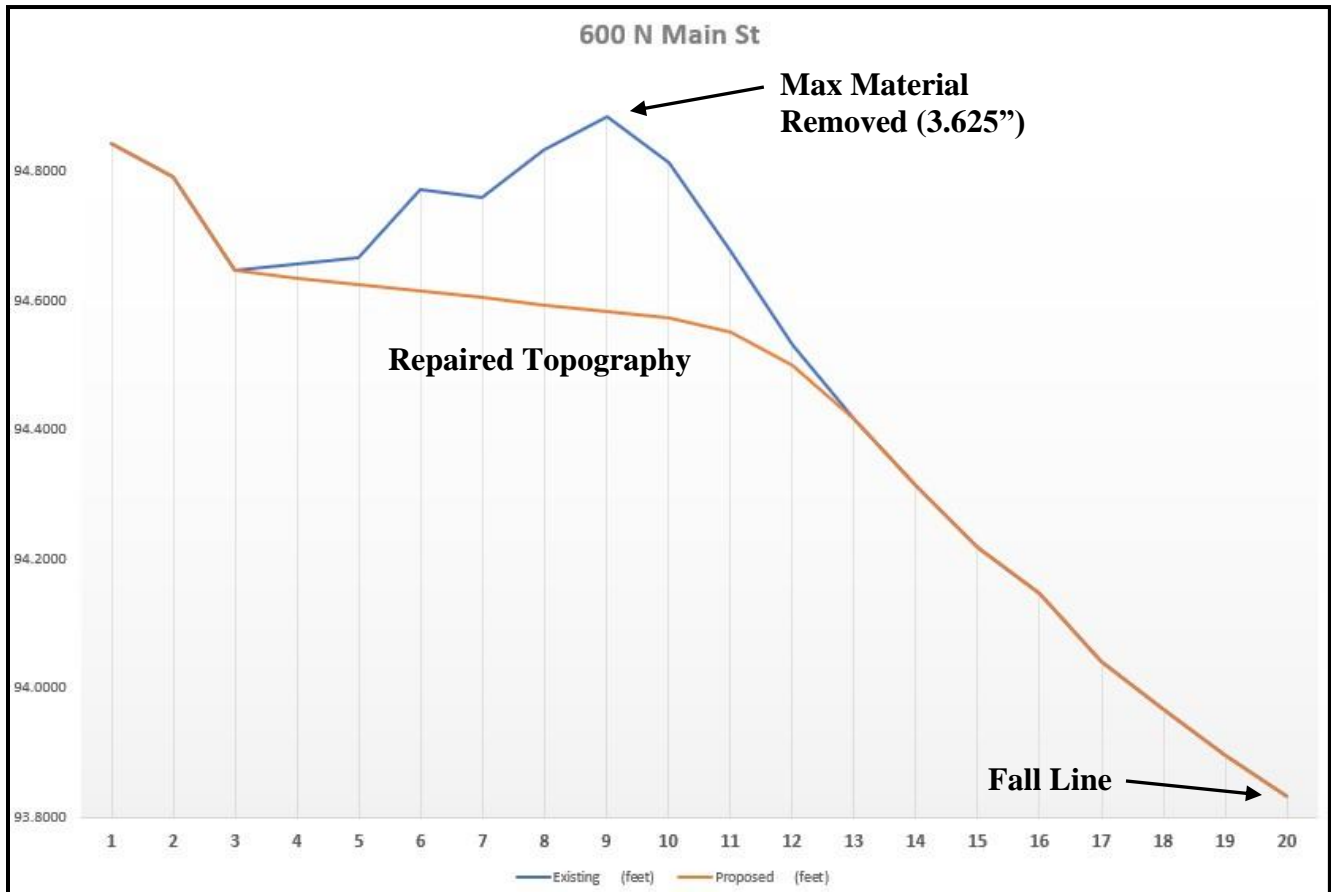
Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
9	S Wrenn St & E High Ave - Location 4	\$620	\$744	\$1,364	1	102

Proposed ponding alterations to this site can be **completed in approximately 1 hour.**

SITE 10: 600 N Main St:

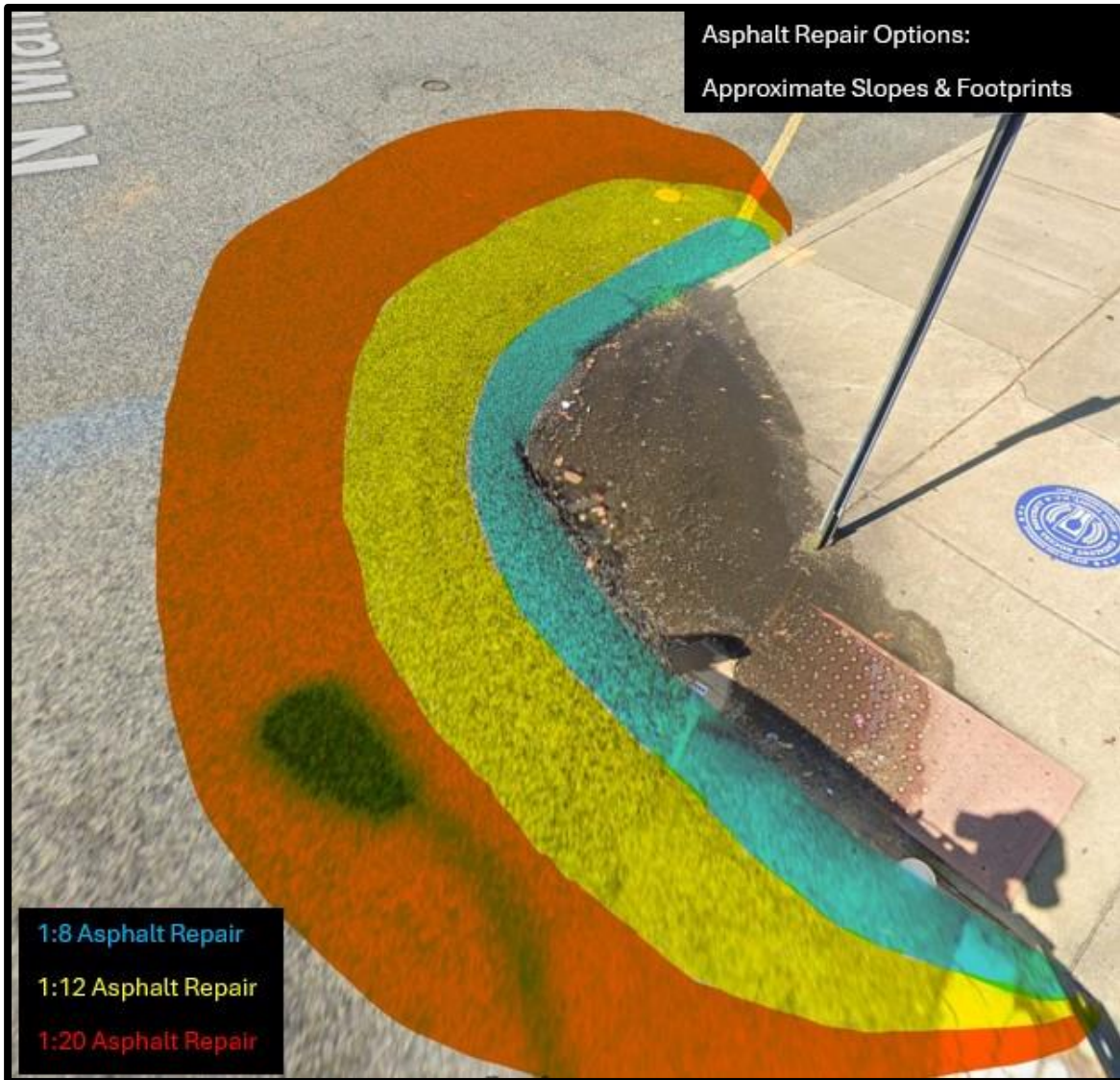


GRAPH



The blue topographical survey line in the graph above indicates the current relative topography, which causes significant ponding in the curb, which could spill into the street area. The orange line is the new relative topography that will be created by making alterations using our patented method and modeling process. **Ponding will be reduced by an estimated 90 – 95% in the project area**, eliminating the need for demolition and replacement (D&R) and keeping the pond contained to the gutter pan area. **The maximum amount of material requiring removal is 3.625 inches at station 9 on the graph above.**

Asphalt Repair:



We can repair the asphalt that is holding in the water so that it meets the Bottom Handicap Ramp requirements of the ADA at slopes of either 1:8, 1:12, or 1:20.

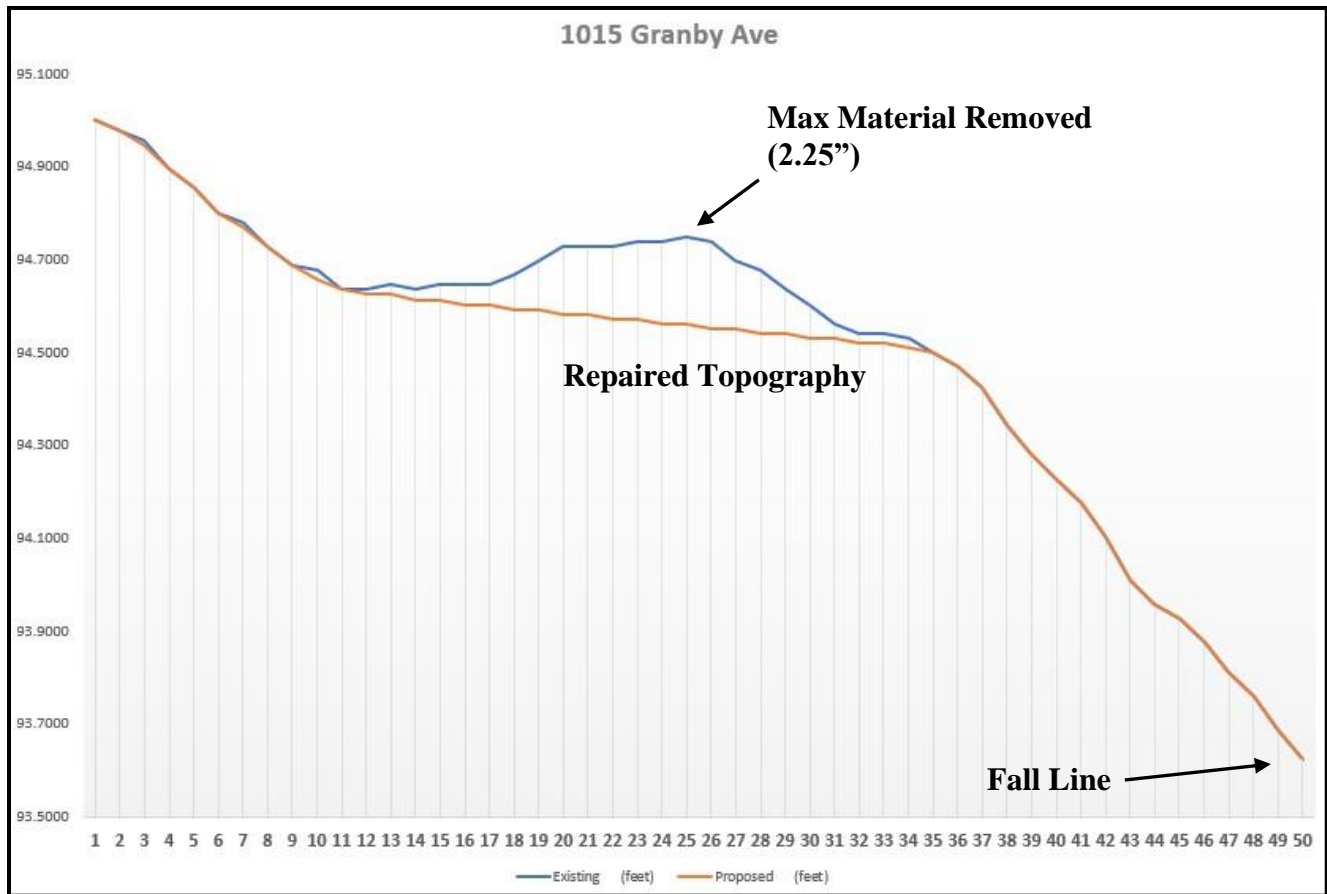
Option	600 N Main St	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	Ponding & Asphalt Repair - 1:8 Slope	\$7,473	\$13,931	\$21,404	12	56
2	Ponding & Asphalt Repair - 1:12 Slope	\$9,729	\$11,675	\$21,404	16	56
3	Ponding & Asphalt Repair - 1:20 Slope	\$14,241	\$7,163	\$21,404	23	56

Proposed ponding alterations to this site can be **completed in between approximately 12 and 23 hours.**

SITE 11: 1015 Granby Ave:

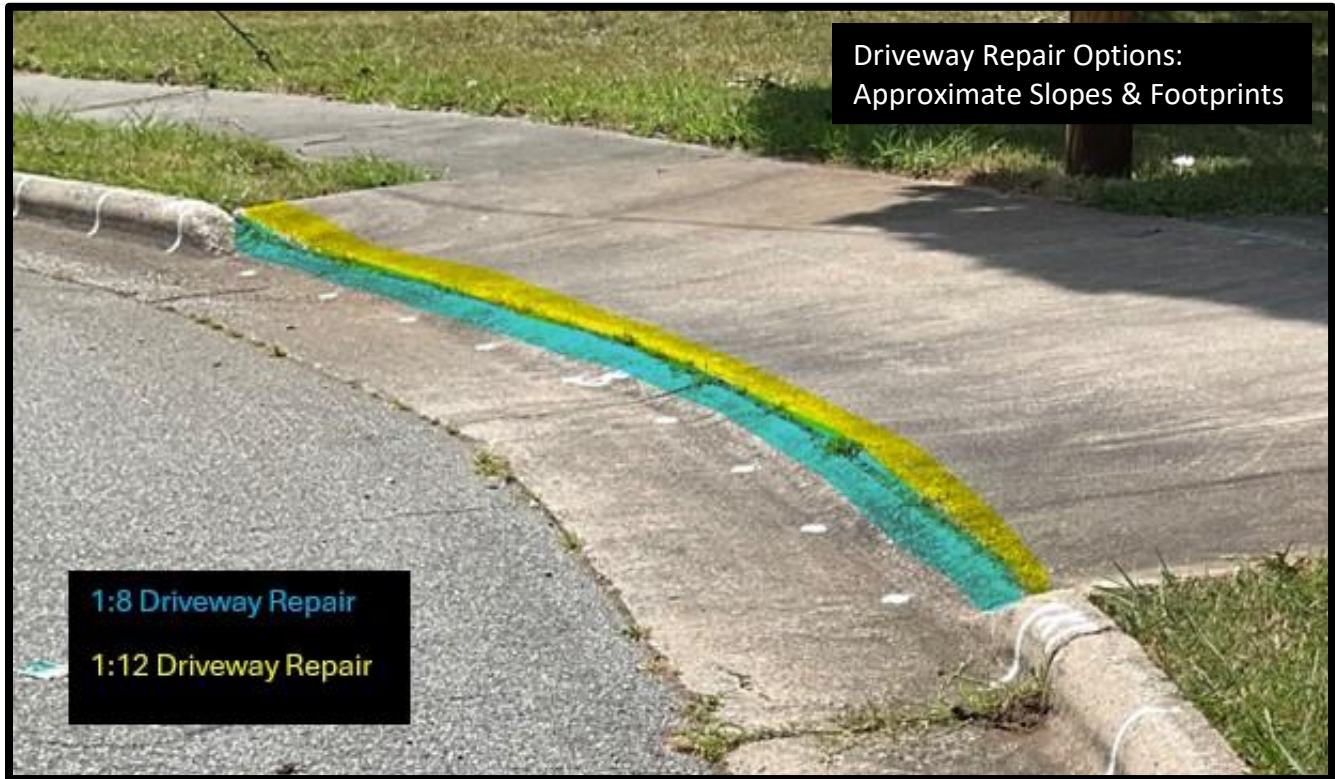


GRAPH



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Driveway Repair:



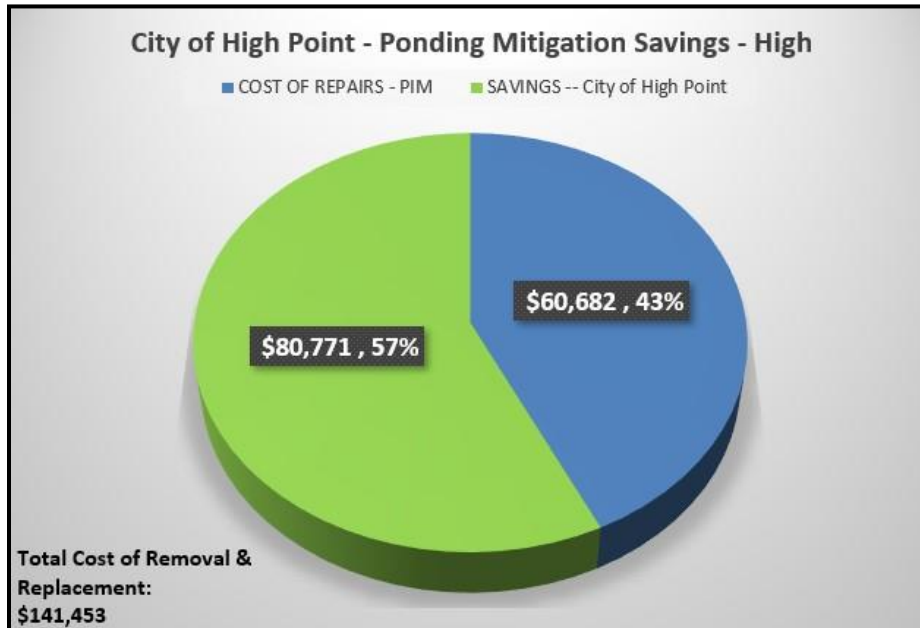
We can repair the resulting slope of the driveway due to the ponding mitigation repair at slopes of either 1:8 or 1:12.

Option	1015 Granby Ave	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	Ponding & Driveway Repair - 1:8 Slope	\$6,735	\$11,070	\$17,805	11	122
2	Ponding & Driveway Repair - 1:12 Slope	\$8,093	\$9,712	\$17,805	14	122

Proposed ponding alterations to this site can be **completed in between approximately 11 and 14 hours.**

ESTIMATED SAVINGS

The graphs below represent the highest versus the lowest amount of savings that is possible depending on the option you choose at 600 N Main St and 1015 Granby Ave.



Compared to traditional methods (asphalt repaving), PIM estimates **The City of High Point will save between approximately \$72,645 and \$80,771** if it elects to use the “Full Mitigation” model from PIM’s patent-pending ponding mitigation process.

PRICING

Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet
1	315 E Green Dr	\$1,580	\$1,896	\$3,476	2	22
2	1000 Forest Hill Dr	\$2,600	\$3,120	\$5,720	5	59
3	John Coltrane Statue - North Side of Catch Basin	\$1,260	\$1,512	\$2,772	2	58
4	John Coltrane Statue - South Side of Catch Basin	\$6,520	\$7,824	\$14,344	12	80
5	MLK Jr Dr & N Centennial St	\$6,247	\$7,497	\$13,744	11	93
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9	S Wrenn St & E High Ave - Location 4	\$620	\$744	\$1,364	1	102
10	303 Anaheim St - Infeasible	N/A	N/A	N/A	N/A	N/A
11	601 Nova Ave - Infeasible	N/A	N/A	N/A	N/A	N/A
12	606 Gordon St - Infeasible	N/A	N/A	N/A	N/A	N/A
13	N Main St & E English Rd - Infeasible	N/A	N/A	N/A	N/A	N/A
		\$46,474	\$ 55,770	\$ 102,244	81	684

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2	Ponding & Asphalt Repair - 1:12 Slope	\$9,729	\$11,675	\$21,404	16	56
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2	Ponding & Driveway Repair - 1:12 Slope	\$8,093	\$9,712	\$17,805	14	122

PROJECT SCHEDULE & DURATION

When scheduled, we estimate the ponding alterations **will require approximately 13 – 15 working days**, with the note that wet weather days may delay our operations.

SAFETY

PIM has a nearly flawless safety record; we use OSHA approved equipment, certify all employees who work directly on sidewalk condition studies, and have outstanding safety practices for both employees and the public who may be using the walkways and facilities where we are working. We have worked in dense urban, high pedestrian traffic areas, universities as well as residential neighborhoods and historic districts to complete condition assessments without incident. Our clients often receive unsolicited compliments for the work we are performing for them.

INSURANCE & INCORPORATION

PIM is a corporation registered in the state of Delaware with a Certificate of Authority to operate in North Carolina, Virginia, West Virginia, District of Columbia, Pennsylvania, and New York. Proof of liability, workers compensation, and auto insurance will be provided as requested. PIM CS, LLC is the legal entity name for contracting purposes.

CONFIDENTIALITY

This copyrighted material is presented by PIM to The City of High Point for the purpose of evaluating an offer to provide ADA transition-related products and services. These literary, graphic, and pictorial works may not be reproduced or retransmitted in any form and the information presented in this proposal may not be disseminated without express written consent.

PROJECT INITIATION

When advised of acceptance of this proposal, PIM will assign an operations Manager for the ponding cuts who will conduct a kick-off and/or organizational meeting with the project manager assigned by The City of High Point. During this meeting we will discuss:

- Project schedule and work-days
- Special scheduling requests
- Reporting on progress
- General specifications
- Contact information
- Additional City of High Point requirements

REPAIR SPECIFICATIONS

1. Measurements will be taken of every ponding point inside the estimated project area:
 - a. Height¹ – the original height of each ponding point location
 - b. Height² – the modified height of each ponding point location
 - c. Length – the total linear feet distance of measured original ponding locations
 - d. Full Address Location
2. Gutter pan sites will be repaired from the full length of the gutter (full edge-to-edge repair);
3. Gutter pans will be repaired at a uniform slope to reduce ponding
4. Debris from repaired areas will be collected and removed;
5. A dust abatement system will be used during all repair operations;
6. The repaired area will be smooth and uniform with a coefficient of friction exceeding OSHA requirements for public walkways if applicable;
7. A detailed, auditable invoice will be presented for every repair site.

WARRANTY

PIM CS, LLC. Guarantees its work:

1. All repairs will have a zero point of differential in height with the adjacent gutter pan.
2. Repairs will affect only the panels causing the ponding; adjacent panels or immovable objects will be unaffected.
3. All repairs will be smooth finish with the possibility of some exposed aggregate.
4. The repaired surface will exceed OSHA requirements for friction on public walkways where applicable.
5. Ponding areas will be reduced as a result of the changes in topographical ponding points.

UNREPAIRABLE SITES

Some sites may not achieve 100% elimination of ponding water as desired. This methodology of ponding mitigation and alterations for sites selected for repair have a high degree of success in mitigating most of the ponding water associated with each the site. In these instances, any residual ponding that might remain, will generally be contained to the gutter pan area where it can evaporate. For sites where we are not able to complete alterations to all ponding points due to site conditions (e.g. discovery of not enough material to remove, degradation of material, unforeseen site anomalies, or conditions, etc.), ½ of the site project cost will need to be billed in order to pay for mobilization and partial work completion.

Estimated Natural Resources Saved:

- approximately **57 - 60** tons of waste concrete and asphalt from removal and landfills (**862** cubic feet of concrete at an average weight of 132 to 140 lbs per cubic foot)
- approximately the same amount of materials and resources to replace the concrete that was removed

Estimated Fossil Fuels Saved: 101 gallons

- hauling equipment to and from the site to remove sidewalks
- operating backhoe equipment to break up and remove concrete
- round trip transportation of 57 - 60 tons of debris to the landfill
- round trip transportation of new materials to replace the removed sidewalks

Estimated Greenhouse Gas Emissions Avoided: 8.57 Metric Tons CO₂

Our clients often wonder what reducing carbon dioxide (CO₂) emissions from repairing sidewalks means in everyday terms – instead of demolishing and replacing them. We have taken the parameters from your project and used the Greenhouse Gas Equivalencies Calculator (provided by the US Environmental Protection Agency) to help understand just that. For this project, an estimated *8.57 Metric Tons of CO₂ – Carbon Dioxide or CO₂ equivalent gases will not be produced.*

PROJECT ACCEPTANCE

Email: c.penland@precisioninfrastructuremgmt.com
or Fax to: (800) 734-8891

Upon receipt of this signed acceptance or Purchase Order, PIM will schedule ponding mitigation alterations approved by The City of High Point.

Site	Location	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet	Select "x"
1	315 E Green Dr	\$1,580	\$1,896	\$3,476	2	22	
2	1000 Forest Hill Dr	\$2,600	\$3,120	\$5,720	5	59	
3	John Coltrane Statue - North Side of Catch Basin	\$1,260	\$1,512	\$2,772	2	58	
4	John Coltrane Statue - South Side of Catch Basin	\$6,520	\$7,824	\$14,344	12	80	
5	MLK Jr Dr & N Centennial St	\$6,247	\$7,497	\$13,744	11	93	
6	S Wrenn St & E High Ave - Location 1	\$17,919	\$21,503	\$39,422	32	140	
7	S Wrenn St & E High Ave - Location 2	\$2,020	\$2,424	\$4,444	4	82	
8	S Wrenn St & E High Ave - Location 3	\$7,708	\$9,250	\$16,958	12	48	
9	S Wrenn St & E High Ave - Location 4	\$620	\$744	\$1,364	1	102	
10	303 Anaheim St - Infeasible	N/A	N/A	N/A	N/A	N/A	N/A
11	601 Nova Ave - Infeasible	N/A	N/A	N/A	N/A	N/A	N/A
12	606 Gordon St - Infeasible	N/A	N/A	N/A	N/A	N/A	N/A
13	N Main St & E English Rd - Infeasible	N/A	N/A	N/A	N/A	N/A	N/A
		\$46,474	\$ 55,770	\$ 102,244	81	684	

Option	600 N Main St	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet	Select "x"
1	Ponding & Asphalt Repair - 1:8 Slope	\$7,473	\$13,931	\$21,404	12	56	
2	Ponding & Asphalt Repair - 1:12 Slope	\$9,729	\$11,675	\$21,404	16	56	
3	Ponding & Asphalt Repair - 1:20 Slope	\$14,241	\$7,163	\$21,404	23	56	

Option	1015 Granby Ave	Price	Estimated Savings	Replacement Cost	Est. Completion Time (Hours)	Linear Feet	Select "x"
1	Ponding & Driveway Repair - 1:8 Slope	\$6,735	\$11,070	\$17,805	11	122	
2	Ponding & Driveway Repair - 1:12 Slope	\$8,093	\$9,712	\$17,805	14	122	

Approved By: _____

Title: _____

Signature: _____

Phone: _____

Email: _____

Notes:



January 17th, 2024

To Whom It May Concern:

Due to the nature of our business, PIM CS, LLC has been asked to provide a letter stating that certain ponding alleviation technology used by PIM CS, LLC is the sole source for a proprietary ponding mitigation method.

PIM CS, LLC owns U.S. Patent No. 11,686,051, and therefore has a right to exclude all others from using the patented method.

PIM believes that the patented ponding alleviation technology that is the subject of the above noted U.S. Patent enables PIM to provide the best available accessible route, streetside gutter pan, and roadside ponding mitigation service to our clients.

If you have any questions, please free to contact our office.

Regards,

Aaron Hester

Aaron Hester
PIM CS, LLC
2200 Wilson Boulevard
Suite 102, #251
Arlington, VA 22201
(800) 479-0219 x301

SOLE SOURCE JUSTIFICATION FORM

(For Items Costing **\$10,000.00 or More**)
Statutory Reference N.C.G.S. 143-129(e)6

Requisition #

Vendor:

Item(s):

Justification:

Estimated expenditure for the above item(s):

Accounting Unit and Account(s):

**CHECK ALL ENTRIES BELOW THAT APPLY TO THE PROPOSED PURCHASE.
ATTACH A MEMO CONTAINING JUSTIFICATION AND SUPPORT DOCUMENTATION.**

- 1. Performance or price competition for a product are not available.
- 2. A needed product is available from only one source of supply.
- 3. Standardization or compatibility is the overriding consideration.
- 4. The parts/equipment are required from this source to permit standardization.
- 5. None of the above applies. A detailed explanation and justification for this sole source request is contained in attached memo and support documentation.

The undersigned requests that competitive procurement be waived and that the vendor identified as the supplier of the material or service described in this sole source justification be authorized as a sole source for the material or service.

Department Head/Authorized Personnel Digitally signed by Robby Stone
Date: 2024.08.28 08:00:42 -04'00'

Department/Division Date

APPROVAL PROCESS

Purchasing Manager Digitally signed by Candy E. Harmon
Date: 2024.08.28 16:34:09 -04'00'

Financial Services Director Digitally signed by Bobby Fitzjohn
Date: 2024.08.29 08:08:56 -04'00'

City Council (\$30,000 – Up)

