Resolution No. R-02-2024
Adopted: February 13, 2024

A Resolution of the Mayor and Council of the Town of Kensington Authorizing a Contract Agreement with Brudis & Associates, Inc., to provide Engineering and Support Services for a Storm Drain Study within the area of the 10700 and 10800 blocks of St. Paul Street.

WHEREAS, pursuant to Chapter II, "Government and Administration", Article 4, "Purchasing and Contracts", Section 2-405, "Professional Services Contracts", the Council may decide by an extra-majority vote (defined as one more than a majority of those present and voting) to authorize the Town Manager to enter into negotiated procurement for professional services rather than advertise; and

WHEREAS, the Town requested a proposal from Brudis & Associates, Inc., to conduct a Storm Drain Study and provide Engineering Support Services with regards to proposed storm drain improvements along the 10700 and 10800 blocks of St. Paul Street, to include the intersection of St. Paul Street and McComas Avenue, along with the intersection of Decatur Avenue and Madison Street; and

WHEREAS, Brudis & Associates provided a Contract proposal (EXHIBIT A) to the Town for Engineering and Support Services for a Storm Drain Study; and

WHEREAS, the Mayor and Council have determined that it is in the public interest to authorize the Town Manager to accept the proposal from Brudis & Associates, Inc., with a contract price of $34,200.00.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Council of the Town of Kensington, Maryland, that the Town Manager be and is hereby authorized to enter into a Contract Agreement in substantially the form attached, with a contract price not to exceed $36,000.00, with Brudis & Associates, Inc.

Adopted by the Town Council this 13th day of February, 2024.

Effective this 13th day of February, 2024.

ATTEST: **TOWN OF KENSINGTON, MARYLAND**

By: Susan C Engels
Susan C. Engels, Clerk – Treasurer

Tracey C. Furman, Mayor

BRUDIS & ASSOCIATES, INC.

Consulting Engineers
MARYLAND • DISTRICT OF COLUMBIA • VIRGINIA • DELAWARE

January 24, 2024

EXHIBIT A

Town of Kensington
ATTN: Matt Hoffman, Town Manager
Department of Public Works
3710 Mitchell Street
Kensington, MD 20895

RE: Proposal for St. Paul Drainage Support Services

Dear Mr. Hoffman:

Pursuant to your request, Brudis & Associates, Inc. (BAI) is pleased to submit our proposal to provide engineering services for storm drain Drainage Study Support Services for Paul Street.

The attached scope of services (Attachment A) details the specific tasks to be performed for this project, as well as the estimated manhours and design fee of **$34,200** for Storm Drain system assessment and preliminary recommendations (Attachment B).

BAI offers the necessary experience and resources to complete this assignment. Should you have any questions or require any additional information, please do not hesitate to contact me at 443-946-6806 or mbastakoti@brudis.com.

Very Truly Yours,
BRUDIS & ASSOCIATES, INC.

Mahendra Bastakoti

Digitally signed by Mahendra Bastakoti
DN: CN=Mahendra Bastakoti, E=mbastakoti@brudis.com
Reason: I am the author of this document
Location:
Date: 2024.01.25 09:44:08-05'00'
Foxit PDF Editor Version: 13.0.0

Mahendra Raj Bastakoti, P.E.
Deputy Director, Water resources

P:\23-011 Kensington Storm Drain System Support Services\Correspondence\Proposals\Drafts\EWO #2 Drainage Study Paul St

Mr. Matt Hoffman, Town Manager
Town of Kensington
Project Name: St. Paul Drainage Support Services

ATTACHMENT A
Scope of Work

Project Background
The Town of Kensington had requested services for Drainage System Analysis Support for a site area located near the intersection of University Boulevard and St. Paul Street in Kensington, Maryland. The properties located at 3404 University Boulevard, 10812 St. Paul Street and 10800 St. Paul Street have been experiencing flooding during the recent rainfall events. The property located at 3404 University Boulevard has an existing yard inlet in the back yard of the existing building. Due to recent construction and existing grades, it appears that most of the runoff entering the property from the University Boulevard is not entering the existing storm drain system through the existing inlet. Instead, in the existing condition the runoff flows between property lines of 3404 University Boulevard and 10812 St. Paul Street and through the existing shed in the back of the property. The flow then continues through 10810 St. Paul Street and eventually gets intercepted by curb opening inlets located on the north side Decatur Avenue.

Similarly, the property located at 10800 St. Paul Street is collecting water during heavy rains and the causing the property downhill (10726 St. Paul Street) to flood. From the site visit and the video shared by the Town, the cause of the flooding appears to be the inadequate curb opening inlets at Decatur Avenue and the steep grade at the two curb opening inlets at the intersection of St. Paul Street and McComas Avenue. Due to the steep grade at the inlets, it appears most of the flow bypasses the inlets and jumps the depressed curb and sidewalk along St. Paul streets downstream of those inlets. The cumulative effect of the runoff coming from the Decatur Avenue and McComas Avenue floods the vacant lot at 10800 St. Paul Street and the existing house located at 10726 St. Paul Street.

Project goals and Understanding
The Town would like to study the existing drainage area and analyze the existing storm drain system. The town has conducted some preliminary planning on how the drainage could be improved in this area. The preliminary plan includes installing new inlets along St. Paul Street before the intersection of the St. Paul Street and Decatur Avenue to limit the water reaching the inlets at Decatur Avenue. There are subsurface utilities such as gas and electric along St. Paul Street, which might make this challenging. Another option explored by the Town is installing a micrbioretention pond in the vacant lot (10800 St. Paul Street), owned by the town, to detain and minimize the flood. The vacant lot consists of mature trees and installing microbioretention may require removing some of the mature trees. There is a 60" storm drain pipe that runs across the vacant lot with a public storm drain easement. It is BAI's understanding that the ponding in properties at 3404 University Boulevard and 10812 St. Paul Street is due to the grading issue. The existing yard inlet located in the back yard of 3404 University Boulevard is currently not efficient due to the existing grades as the runoff bypasses the inlet in the property and flows to the downstream property. The flow then continues and reaches the curb inlets at Decatur Ave. The ponding at the 10800 St. Paul Street is exacerbated by the bypass flow from the McComas Ave. The curb inlets at McComas Ave are at steep grade and it is highly likely that the curb inlets are currently not intercepting much flow. A quick fix would be to make these inlets efficient by increasing the cross slope of the street, widening the inlet throat or simply adding other inlets at the upstream end.

Based on the "Request for the Price Proposals", and subsequent coordination with the Town of Kensington, this scope assumes the following conditions:

Mr. Matt Hoffman, Town Manager
Town of Kensington
Project Name: St. Paul Drainage Support Services

Task 1 – Preliminary Drainage Study:
BAI will perform the following task under Task 1:

a) BAI will download available GIS topographic information including the Town's available storm drain information and prepare a drainage area map for the existing storm drain system within the study limits.
b) BAI will perform a site visit to verify the drainage area delineation of the existing storm drain system.
c) BAI will conduct a study of the existing storm drain system utilizing the drainage area map and the available data and check the drainage pattern, spread to the existing storm drain inlets.
d) BAI will develop a conceptual plan to address the existing ponding issue and submit for Town's review.
e) BAI will perform storm drain calculations for the concept layout, the design will be for 10-year storm. BAI will include the conceptual calculation in the storm drain report and will provide to the town.
f) BAI will address any comments Town may have on the concept design. A maximum of two (2) review cycles is anticipated including the initial submission.

Task 2 – Detail Design:
Once the concept design has been reviewed and approved by the Town, BAI will provide following under task 2 services.

a) BAI will develop a detail storm drain plan including storm drain layout, grading, profiles, structure, and pipe schedules.
b) BAI will update the drainage design report including storm drain computations and will provide the report along with the plans for Town's review.
c) BAI will provide design for the erosion and sediment control for the proposed improvements.
d) BAI will submit the storm drain design, erosion and sediment control plan and drainage report for the town's review and approval.
e) BAI will address any comments Town may have on the detail design. A maximum of two (2) review cycles is anticipated including the initial submission.

Assumptions and Exclusion

- It is assumed a survey of the existing storm drain system, if required, will be provided by the Town of Kensington.
- Town of Kensington will provide/coordinate any as-built drawings of the existing storm drain system that are available.
- No floodplain analysis and HEC-RAS analysis will be required.
- No permitting will be required, if the existing storm drain system requires permitting, a separate proposal will be provided.
- The study will be limited to existing storm drain systems within the project limits outlined in the proposal.
- No downstream study is intended as there will be no increase to the impervious area in the proposed condition.
- Any items not specifically mentioned in the scope of work.

Mr. Matt Hoffman, Town Manager
Town of Kensington
Project Name: St. Paul Drainage Support Services

Project Schedule

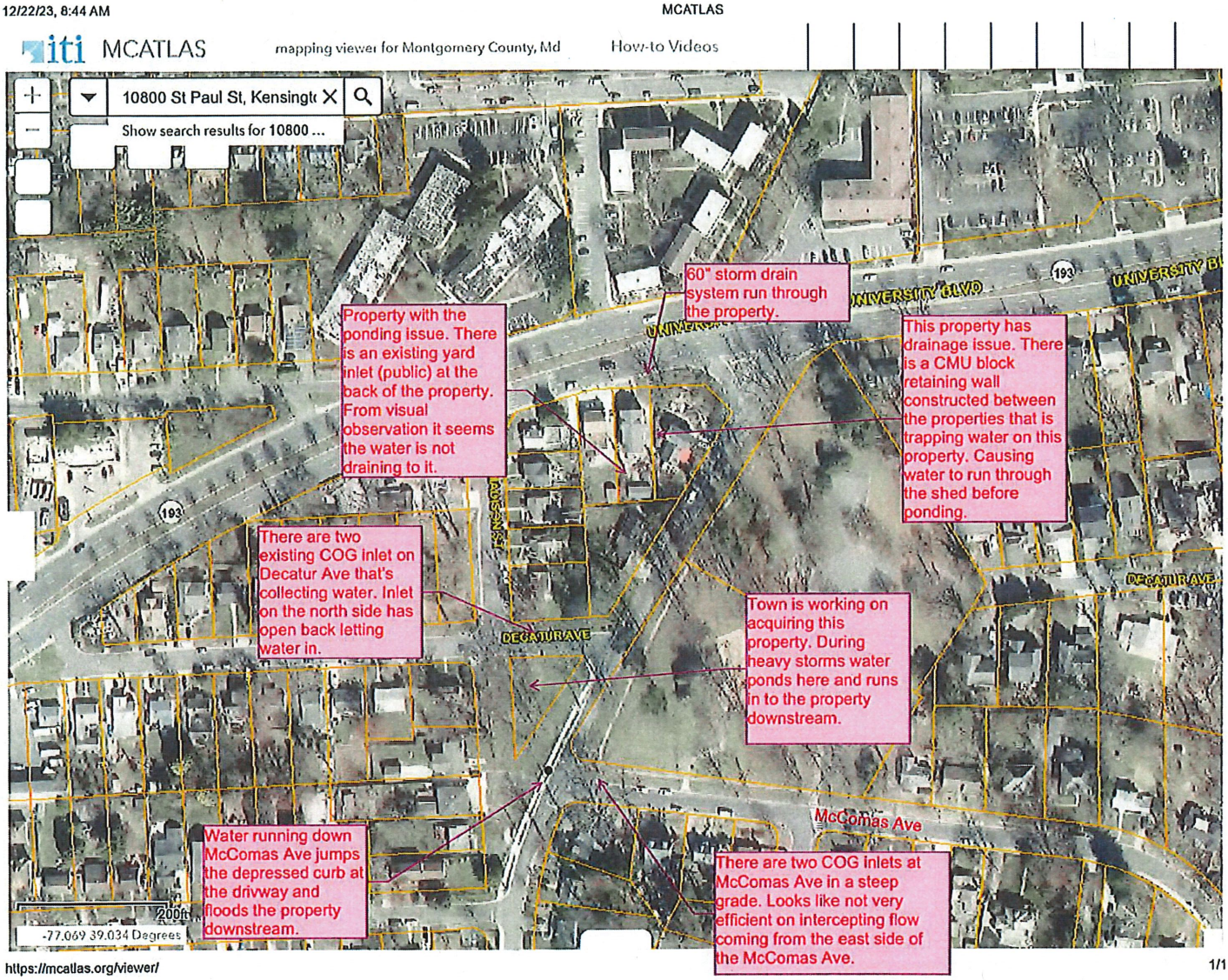
BAI anticipates completing task 1 in 45 days after award. Task 2 will be completed within 60 days of the approval of task 1.

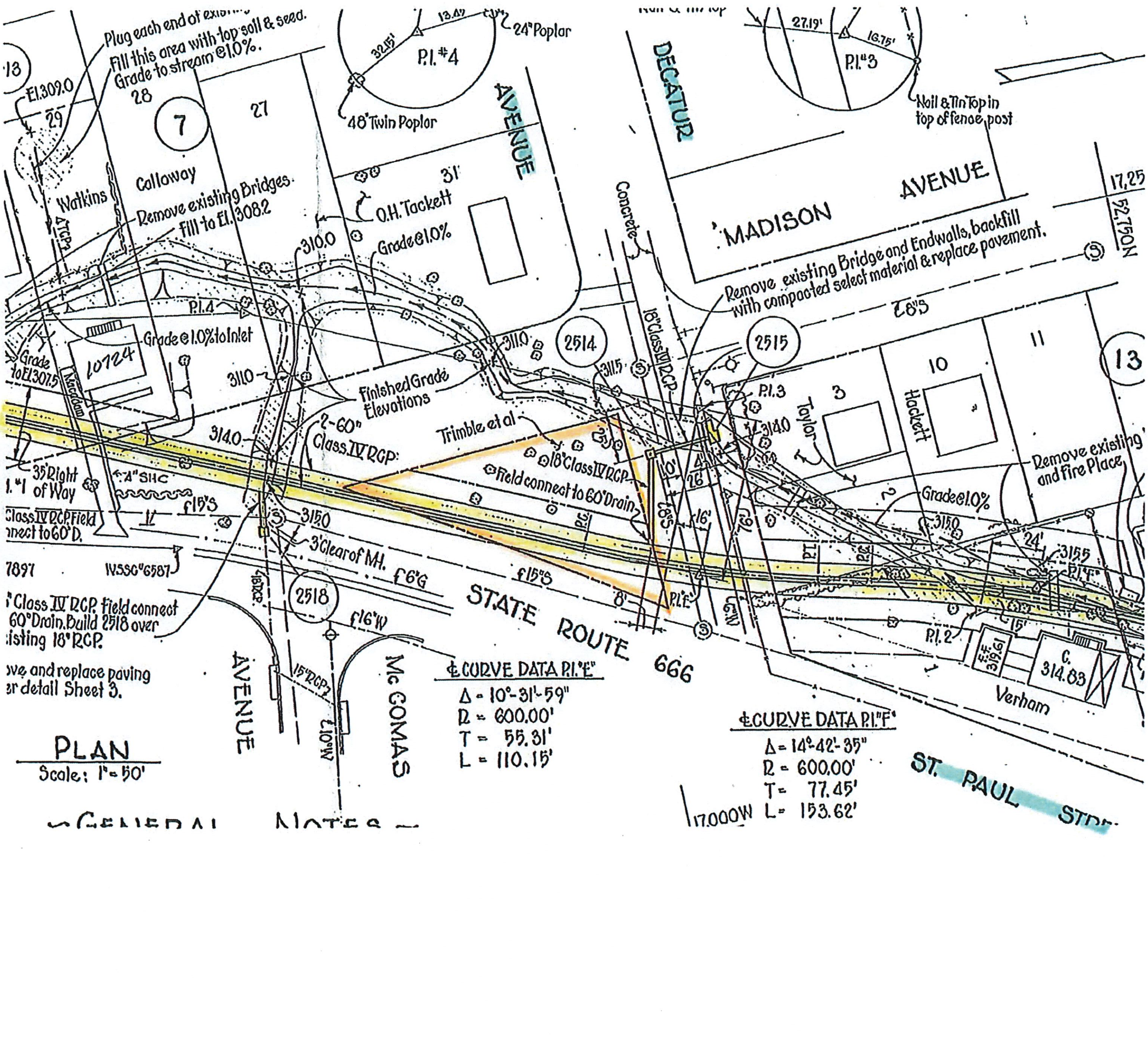
MANHOUR ESTIMATE

TOWN OF KENSINGTON
DEPARTMENT OF PUBLIC WORKS
ESTIMATE OF HOURS
DESCRIPTION OF WORK ACTIONS
TASK NAME: **ST. PAUL DRAINAGE SUPPORT SERVICES**

CONTRACT NO.
TASK NO.

	Task	Principle / Associate	Project Manager	Highway Engineer	Structural Engineer	H&H Engineer	Technician	Total
1	**Task 1 – Preliminary Drainage Study**							
a	Data collection		2			6	12	20
b	Site visit		6			6		12
c	Drainage analysis					32	16	48
d	Develop concept plan		2			8	24	34
e	Preliminary drainage report and computation		2			16		18
f	Address Comments		2			26	24	52
2	**Task 2 - Detail Design**							
a	Update storm drian plan, profiles, details and schedules					16	30	46
b	Update drainage report and computations					8	4	12
c	Erosion and sediment control plans		1			12	24	37
d	Detail design plans and report submission		3			2	6	11
d	Address comments		2			16	26	44
	Item 1 Hours	0	20	0	0	148	166	334
	Rate		$ 162.50	$ 112.50	$ 112.50	$ 125.00	$ 75.00	
	Item 1 Cost	$ -	$ 3,250.00	$ -	$ -	$ 18,500.00	$ 12,450.00	$ 34,200.00
2	**Total**							
	Total Hours	0	20	0	0	148	166	334
	Total Bid Price		$ 3,250.00	$ -	$ -	$ 18,500.00	$ 12,450.00	$ 34,200.00


iti MCATLAS
mapping viewer for Montgomery County, Md
How-to Videos
10800 St Paul St, Kensingt
Show search results for 10800 ...
60" storm drain system run through the property.
Property with the ponding issue. There is an existing yard inlet (public) at the back of the property. From visual observation it seems the water is not draining to it.
This property has drainage issue. There is a CMU block retaining wall constructed between the properties that is trapping water on this property. Causing water to run through the shed before ponding.
There are two existing COG inlet on Decatur Ave that's collecting water. Inlet on the north side has open back letting water in.
Town is working on acquiring this property. During heavy storms water ponds here and runs in to the property downstream.
Water running down McComas Ave jumps the depressed curb at the driveway and floods the property downstream.
There are two COG inlets at McComas Ave in a steep grade. Looks like not very efficient on intercepting flow coming from the east side of the McComas Ave.
UNIVERSITY BLVD
193
DECATUR AVE
McComas Ave
200ft
-77.069 39.034 Degrees


Plug each end of existing
Fill this area with top soil & seed.
Grade to stream @1.0%.
24" Poplar
P.I. #4
48" Twin Poplar
AVENUE
DECATUR
P.I. #3
Nail & Tin Top in top of fence post
MADISON AVENUE
Watkins
Calloway
Remove existing Bridges. Fill to El. 308.2
O.H. Tackett
Grade @1.0%
Concrete
Remove existing Bridge and Endwalls, backfill with compacted select material & replace pavement.
P.I. 4
Grade @1.0% to Inlet
Finished Grade Elevations
2-60" Class IV RCP
18" Class IV RCP
2514
2515
P.I. 3
Taylor
Hackett
Trimble et al
18" Class IV RCP
Field connect to 60" Drain
35' Right of Way
Remove existing and Fire Place
Grade @1.0%
3' Clear of M.H.
2518
STATE ROUTE 666
Class IV RCP. Field connect 60" Drain. Build 2518 over existing 18" RCP.
ove and replace paving er detail Sheet 3.
AVENUE
Mc COMAS
℄ CURVE DATA P.I. "E"
Δ = 10°-31'-59"
R = 600.00'
T = 55.31'
L = 110.15'
℄ CURVE DATA P.I. "F"
Δ = 14°-42'-35"
R = 600.00'
T = 77.45'
L = 153.62'
Verham
ST. PAUL STREET
PLAN
Scale: 1" = 50'
GENERAL NOTES