



STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

TO: Lake County Stormwater Management Commission

FROM: Mike Warner, Executive Director

DATE: 8/27/19

RE: Stormwater Infrastructure Repair Fund (SIRF)
Lake Villa Township – Academy and Columbia Bay Drive Drainage Improvements

ACTION REQUESTED: APPROVAL OF 2nd AMENDED AGREEMENT AND AWARD OF \$50,000

SMC staff recommends approval of the Amended FY17 SIRF Agreement for the Lake Villa Township's Academy Drive and Columbia Bay Drive Drainage Improvements Project. The project includes the permitting and construction of a storm sewer outlet and detention basin to reduce structural damage and flooding within and adjacent to a flood-prone area.

Consistent with SIRF program objectives, the project will benefit multiple jurisdictions, provide beneficial results during flood events up to and to include the 10-year storm event, and alleviate flood damages. A total of eighteen properties will benefit from the proposed improvements, which will reduce flood elevations to a level below that which cause nuisance flooding and flood-related structural damages during events up to and including the 10-year storm event.

The original estimated project cost was \$875,000; however, the scope of work has been modified. The new estimated project cost is now \$345,000, of which \$295,000 will be the Township's share. The Township is requesting \$50,000 of FY2017 SIRF funds.

This project previously received Eligibility Authorization at the January 2018 SMC meeting.

Attached is the Agreement for the project. If you should have any questions about this project, please feel free to contact Sharon Østerby at 847-377-7706 or sosterby@lakecountyil.gov

**AMENDMENT
to
INTERGOVERNMENTAL PROJECT AGREEMENT
between the
LAKE COUNTY STORMWATER MANAGEMENT COMMISSION
and the
Lake Villa Township
for
Columbia Bay and Academy Drive Drainage Improvements**

THIS IS AN AGREEMENT by and between the LAKE COUNTY STORMWATER MANAGEMENT COMMISSION, 500 W. Winchester Road, Libertyville, Illinois 60048 (hereinafter called the SMC) and the LAKE VILLA TOWNSHIP, 37908 North Fairfield Road Lake Villa, IL 60046 (hereinafter called the TOWNSHIP).

PROJECT DESCRIPTION

This project is considered phase one of two phases and involves work at Academy Drive and W. Columbia Bay Drive in Lake Villa Township. The phase two project would be accomplished at a later date, when funding becomes available. The phase one project includes construction as described in Attachment A, Stormwater Infrastructure Eligibility Authorization and Attachment B, Preliminary Plan.

The construction of the detention basin and storm sewers at Academy and Columbia Bay Drive will reduce annual flooding from storm events resulting in damage to approximately 20 residences, three township roadways and nuisance flooding to other residents in the area. This work is hereinafter called the PROJECT.

SCOPE OF WORK

1. The scope of work for the PROJECT are described above and shown on Attachments A and B. The TOWNSHIP will act as project manager overseeing the design and completion of the PROJECT.
2. The TOWNSHIP will, at the PROJECT outset, provide SMC with a detailed work plan for the PROJECT describing the tasks to be completed and a detailed PROJECT schedule.
3. The TOWNSHIP shall obtain all land rights necessary to complete the PROJECT, and to maintain the constructed drainage improvements thereafter.
4. Work within public road rights-of-way shall not be performed without appropriate permits or authorization from the jurisdictional road authority.
5. The TOWNSHIP will obtain all permits and conduct all consultations necessary to complete the PROJECT, including, but not limited to, if necessary, a wetland permit from the US Army Corps of Engineers (USACE), a Watershed Development Permit from SMC or, if applicable, the appropriate certified community, a construction stormwater permit from the Illinois Environmental Protection Agency (IEPA), and

a consultation with the Illinois Department of Natural Resources (IDNR) regarding state listed threatened and endangered species. Please note that all permit and consultation fees are the responsibility of TOWNSHIP and are not reimbursable under this AGREEMENT; however, such permit fees may count toward TOWNSHIP'S share of the total PROJECT cost.

6. If requested, SMC will provide limited technical assistance to the TOWNSHIP during the project. This may include discussion of construction methods and review of consultant reports or specifications prepared as part of the PROJECT.
7. During the PROJECT, the TOWNSHIP will prepare and submit to SMC a brief one-to two-page written update report and, upon completion of the PROJECT, a brief one-to two-page written final report. Photographic documentation of before and after construction must be included.

SCHEDULE

A PROJECT status update and schedule shall be submitted by the TOWNSHIP to the SMC before March 1st, 2020.

The TOWNSHIP shall complete the PROJECT on or before November 30, 2020. If necessary, the TOWNSHIP may request in writing an extension from SMC prior to such date.

The final request for reimbursement for eligible expenses shall be submitted by the TOWNSHIP before November 30, 2020. If necessary, an extension may be requested in writing by the TOWNSHIP prior to this date. Requests for reimbursement submitted after this date without prior approval of the extension will not be honored.

COMPENSATION

1. The total cost of the PROJECT is estimated at \$345,000 as shown in Attachment C, Project Cost Estimate.
2. SMC will reimburse the TOWNSHIP for 50 percent of eligible PROJECT expenditures made after the date of this signed agreement, or \$50,000, whichever is less.
3. Payment of reimbursable expenditures shall be due and payable by SMC after the receipt of a written request for reimbursement from the TOWNSHIP for the requested reimbursement amount, complete with adequate documentation of PROJECT expenditures (i.e., invoice and supporting documentation), including in-kind labor and local match. All requests for reimbursement are subject to approval by the SMC Director.

TERMS AND CONDITIONS

1. The terms of this AGREEMENT are valid until November 30, 2020.
2. Either party may terminate this AGREEMENT upon a 30-day written notice to the other party. In the event of such termination, SMC shall reimburse the TOWNSHIP for up

to 50% of eligible documented PROJECT costs incurred up to November 30, 2020, or \$50,000, whichever is less.

3. All adjustments, additions, and/or deletions to this AGREEMENT, including changes in the PROJECT scope, are subject to the written approval of both parties.
4. This AGREEMENT shall be governed by and construed according to the laws of the State of Illinois.
5. This AGREEMENT supersedes any and all other agreements, oral or written, between the parties hereto with respect to the subject matter hereof.
6. SMC authorization and financial support for the PROJECT is conditioned on compliance with all applicable federal, state and local statutes and regulations.
7. The TOWNSHIP will include in any publications created for general external circulation, including brochures, newsletters, and website and presentation materials, the following phrase: *"Funding for this project was provided in part by the Lake County Stormwater Management Commission."*

SIGNATURES

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed, as evidenced by the signatures of their duly authorized representative as affixed below.

**LAKE COUNTY STORMWATER
MANAGEMENT COMMISSION:**

TOWNSHIP OF LAKE VILLA:

Michael D. Warner, Executive Director

Daniel Venturi, Township Supervisor

Date:

Date:

Stormwater Infrastructure Repair Fund Eligibility Authorization Form

Disclaimer: Approval of the project described herein is an acknowledgement of potential program eligibility only and in no way authorizes payment of funds, reimbursement of expenses incurred for the project and does not guarantee any future funding for the project. Funding may be available once the project has met all the eligibility requirements and a project agreement has been approved and executed by the Commission.

Applicant Jurisdiction (s) (Community, Township, HOA)	Lake Villa Township		
Brief Project Title	Columbia Bay Drive Drainage Improvements		
General Location	Columbia Bay Drive and Academy Drive, Lake Villa Township		
Contact Person	Patrick Bleck (Bleck Engineering)		
Address	37908 N. Fairfield Road		
City, State Zip	Lake Villa	Phone 1:	847-295-5200 (Bleck Engineering)
		Phone 2:	847-356-2116 (Township)
Resource Request			
<input type="checkbox"/> SIRF Funds <input type="checkbox"/> SMC Staff Capacity <input checked="" type="checkbox"/> Combination Funds and Staff			
<p>Project Description (use additional sheets if necessary):</p> <p>This project involves drainage work in unincorporated Lake Villa (see attached location map). The project consists of constructing and extending stormsewers in the area of Columbia Drive and Academy Drive where 2-year storm events frequently inundate structures and overtops Academy Drive and Columbia Bay Drive. The new design will meet or exceed the 10-year storm event.</p> <p>Drainage work includes the design, permitting, and construction of the following improvements:</p> <ol style="list-style-type: none"> 1. Excavate and create storage volume on 25253 W. Columbia Bay Drive and 38096 N. Academy Drive 2. Extension of a 12" storm sewer from existing system to storage area, to discharge between 25310/25301 W. Columbia Bay Drive outlet. 3. Installation of 15" storm sewer from storage area, to discharge between 25270/25262 W. Columbia Bay Drive outlet. 4. Installation of a 30" storm sewer along the west side of Academy Drive from the intersection of Academy Drive and W. Academy Court to discharge into the storage area. 5. Installation of a 15" storm sewer along the east side of Academy Drive from the storage area to the north approximately 120 feet. 			

Cost Estimate:	\$546,200	Applicant Share: \$346,200	SIRF Share: \$50,000
In-Kind Service Person Hours:	Applicant: 0 hrs.	SMC: 20 hrs.	
In-Kind Service Description: SMC in kind hours are requested for permitting assistance			
Project Timing: Start Date: April 2020		Completion Date: August 2020	
Summary of Project Area Damages (Quantify Below # and type of damages incurred or threatened to occur)			
Damage Priority	Flood Damage Type	Number of Occurrences	Frequency of Occurrences (e.g. Every Year, every two years)
1	Structural Damage	1	Several times per year
2	Flooded Building	2	Several times per year
3	Health and Safety		
4	Road Flooding	2	Several times per year
5	Disruption of Revenue		
6	Parking Lot Flooding		
7	Nuisance Flooding	12	Several times per year
Summary of Project Benefits (how much of the quantified damage is to be relieved and to what extent)			
<p>Consistent with SIRF program objectives, the project will benefit multiple jurisdictions, provide beneficial results during flood events up to and including the 10-year storm event, and alleviate nuisance flooding and structural damages.</p> <p>The proposed project design incorporates best management practices and there are no adverse effects anticipated as a result of the construction.</p>			
Statement of Local Commitment (assurance that applicant has sufficient matching funds and staff capacity)			
<p>Funding for the project shall consist of entirely public funds. If the SMC agrees to grant this project, the Lake Villa Township will undertake the remaining cost of the project.</p>			



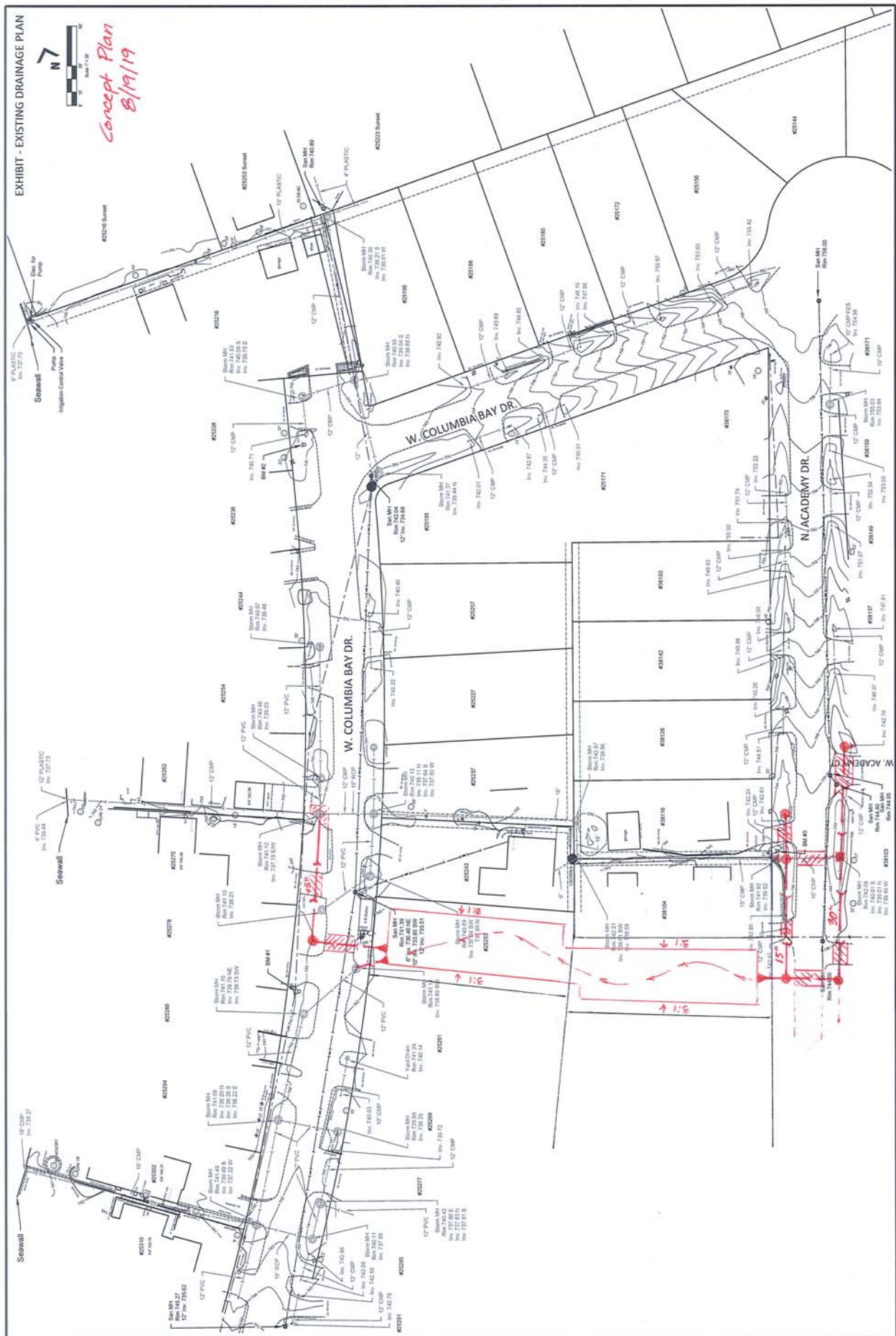
Signature of Authorized Representative of the Cost Sharing Entity

Patrick J. Bleck

Name (Print)

Requested Attachments:

1. Location Map
2. Detailed project Description
3. Detailed (per criteria) Statement on Benefits, including quantifiable benefits.
4. Statement of compliance with SMC policies, local plans and Ordinance
5. Other comments or supporting documents.



Attachment C - Project Cost Estimate

Lake Villa Township

W. Columbia Bay Dr. and Academy Court Drainage Improvement

8/23/2019

Estimate of Probable Construction Cost

Job No. 120-050

SMC - Buy out

Item	Description	Quantities	Units	Unit Price	Cost
1	Demo House	1	LS	\$ 25,000.00	\$ 25,000.00
2	Demo Garage & Shed	1	LS	\$ 5,000.00	\$ 5,000.00
3	Concrete Driveway Removal	200	Sy	\$ 10.00	\$ 2,000.00
4	Disconnect Utilities	1	LS	\$ 2,500.00	\$ 2,500.00
5	Tree Removal	100	in-dia	\$ 75.00	\$ 7,500.00
6	Earth Excavation	2200	Cy	\$ 35.00	\$ 77,000.00
7	Furnish and Place Top Soil, 4"	3050	Sy	\$ 5.00	\$ 15,250.00
8	Mulch	3050	Sy	\$ 3.00	\$ 9,150.00
9	Seeding Class 1	950	SY	\$ 2.50	\$ 2,375.00
10	Seeding Class 5	2100	SY	\$ 5.00	\$ 10,500.00
11	Erosion Control Blanket, NAG S75	3050	SY	\$ 3.00	\$ 9,150.00
12	Silt Fence	1000	Ft	\$ 3.50	\$ 3,500.00
13	Inlet Protection	11	Ea	\$ 200.00	\$ 2,200.00
14	Trench Backfill	55	CY	\$ 40.00	\$ 2,200.00
15	Temporary Stone Driveway Access	40	TON	\$ 40.00	\$ 1,600.00
16	Remove & Replace HMA Pavement	75	SY	\$ 35.00	\$ 2,625.00
17	Remove & Replace Driveway	75	SY	\$ 30.00	\$ 2,250.00
18	Aggregate Shoulder	25	TON	\$ 45.00	\$ 1,125.00
19	30" Storm Sewer, RCCP	230	LF	\$ 90.00	\$ 20,700.00
20	15" Storm Sewer, RCCP	265	LF	\$ 55.00	\$ 14,575.00
21	12" Storm Sewer, RCCP	15	LF	\$ 45.00	\$ 675.00
22	30" PRC FES with Grate	1	EA	\$ 2,500.00	\$ 2,500.00
23	15" PRC FES	1	EA	\$ 900.00	\$ 900.00
24	12" PRC FES	1	EA	\$ 600.00	\$ 600.00
25	Flush Inlet Box, 5'	2	EA	\$ 4,000.00	\$ 8,000.00
26	RD Manhole, 5' Dia, Type A - R4342	2	EA	\$ 4,000.00	\$ 8,000.00
27	RD Manhole, 4' Dia, Type A - R4342	2	EA	\$ 3,000.00	\$ 6,000.00
28	Inlet, 2' Dia, Type A-R4342	1	EA	\$ 1,000.00	\$ 1,000.00
29	Sanitary Service to be Adjusted	1	EA	\$ 1,000.00	\$ 1,000.00
30	Water Service to be Adjusted	1	EA	\$ 750.00	\$ 750.00
31	Remove, Salvage & Restore Mailboxes	3	Ea	\$ 250.00	\$ 750.00
32	Remove, Salvage & Restore Street Sign	2	EA	\$ 200.00	\$ 400.00
33	Stone Rip-Rap	12	SY	\$ 75.00	\$ 900.00
34	Storm Sewer & Pipe Culvert Removal	230	FT	\$ 10.00	\$ 2,300.00
35	Remove Existing Structure	3	EA	\$ 300.00	\$ 900.00
36	Traffic Control	1	LS	\$ 10,000.00	\$ 10,000.00
Sub-total					\$ 260,875.00

10% Contingency \$ 26,087.50

Total Estimate of Probable Construction Cost \$ 286,962.50

Design Engr. 10% \$ 28,696.25

Construction Engr. 10% \$ 28,696.25

Advertising \$ 300.00

Total \$ 344,655.00

Budget \$ 345,000.00

Project Item	Project Component	Lake Villa Twp.	SMC Match
Property Purchase	\$201,200	\$51,200	\$150,000
Phase 1 Infrastructure Work Amended SIRF	\$345,000	\$295,000	\$50,000
Total Project Cost	\$546,200	\$346,200	\$200,000
		63.4%	36.6%