



TENTATIVE A g e n d a
President and Board of Trustees
Thursday, March 1, 2012
Village Hall
123 Madison Street

Special Meeting at 7:00p.m. in the Council Chambers

- I. Call to Order
 - II. Roll Call
 - III. Agenda Approval
-

Instructions for Agenda Public Comment

(3 minutes per person; 3 items per person maximum)

Comments are 3 minutes per person per agenda item, with a maximum of 3 agenda items to which you can speak. In addition, the Village Board permits a maximum of three persons to speak to each side of any one topic that is scheduled for or has been the subject of a public hearing by a designated hearing body. These items are noted with a (*).

IV. Public Comment

V. Status Report on Potential Flood Mitigation Efforts as Outlined in the MWH Consulting Engineers Report

Overview: In October, the Village Board was presented with various options for potential flood mitigation strategies that may be considered in Oak Park. The Village Board then referred the issue to Finance Committee for further review and discussion with staff on the financial implications of some of these strategies. Tonight's meeting is a follow-up discussion with the staff and the full Board regarding these potential strategies and direction to staff regarding funding in 2012 or future years if any or some of these strategies are selected.


V. Adjourn

For more information regarding Village Board meetings and agendas, please contact the Village Manager's Office at 708.358.5770. If you require assistance to participate in any Village program or activity, contact the ADA Coordinator at 708.358.5430 or e-mail adaordinator@oak-park.us at least 48 hours before the scheduled activity. Agendas and agenda materials are now available electronically on the village web site. Visit www.oak-park.us mouse-over News, then click on Board Agendas and Minutes.

Village of Oak Park
Department of Public Works
Administration
MEMORANDUM

February 23, 2012

TO: Thomas Barwin, Village Manager

FROM: John P. Wielebnicki, Director of Public Works 

CC: Lisa Shelly, Deputy Village Manager; Jim Budrick, Village Engineer;
Craig Lesner, CFO; Steve Witt, Building & property Standards Director

RE: 2012 Proposed Flood Mitigation Budget

The Village Board Finance Committee met on February 9, 2012 and again on February 16, 2012 to discuss the proposed 2012 flood mitigation budget (\$350,000). The Committee reviewed the list of possible mitigation efforts that MWH Consulting Engineers presented to the Board in October 2011 (Attachment 1) and staff presented recommendations for the 2012 budget. The following is a summary of the Finance Committee discussion:

1. Downspout Disconnection Program:

Staff recommended a Voluntary Downspout Disconnection Program be implemented. This program could be part of the Building and Property Standards (BPS) Department's neighborhood inspection program and would identify properties that have their downspouts connected to the Village's combined sewer system.

The proposed program is as follows:

1. The Village notifies all property owners that downspout inspections will be made as part of the Village's neighborhood inspection program. Notice could be made via the OPFYI and an insert in the water bills.
2. BPS Staff completes the inspection of the property as part of the neighborhood inspection program. (This inspection is made from the Village sidewalk without entrance onto the property).
3. Inspector documents whether or not the downspouts are disconnected on the checklist.

4. BPS notifies the property owner via a cover letter of the Village's voluntary program and includes the attached DRAFT brochure (attachment 2).

Note: BPS staff recently prepared a "How to" video on how property owners can disconnect their downspouts.

5. A Followup inspection is made.
6. A second notice is sent to property owners, if necessary, encouraging the disconnection.

The goal of the program is to encourage as many downspout disconnections as possible. The initial inspections by BPS staff will generate baseline data which will be used to set program goals, assist with sewer modeling, and guide future policies and programs for downspout disconnection.

This program will be managed in house and the cost will be absorbed as part of the existing program.

The Finance Committee supported this recommendation.

2. Overhead Sewer and Backflow Prevention:

Several communities have implemented cost sharing sewer backup protection programs as a cost effective means in protecting homeowners from sewer backup (attachment 3) in addition to their Capital Sewer Improvements.

While capital sewer improvements are designed to provide protection from a 5 - 10 year rainfall event, private property improvements such as installation of overhead sewers provide nearly total protection.

A few communities also include in their programs the cost sharing for installing a backflow prevention valve and bypass (new sump and sump pump in an underground vault) and associated electrical and plumbing work.

In terms of level of protection, overhead sewers provide a higher level than backflow valves primarily because they do not require regular maintenance.

Typical overhead sewer installation improvements range from \$10,000 - \$15,000 and backflow prevention valves range from \$5,000 - \$10,000.

In 2011, 52 Private Property Flood Control Systems were permitted in the Village. Attachment 4 shows a map of the locations of the installations. Not surprising, the systems were clustered in the northern part of the Village.

Staff presented a DRAFT Private Property Sewer Backup Protection Grant Program (attachment 5) with funding at the proposed level of \$225,000 for 2012.

The following summary provides the possible number of homes that could be funded annually based on the proposed funding and various reimbursement options:

- Funding level at \$225,000 at 50%, maximum \$5,000 45 total
- Funding level at \$225,000 at 50%, maximum \$2,500 90 total
- Funding level at \$225,000 at 50%, maximum \$1,500 150 total

The Finance Committee requested that staff prepare a Loan program similar to the DRAFT Grant program (attachment 6).

As an overview, both program details included:

1. The Program is open to those single-family owner-occupied homes that are susceptible to sewer backup by way of a gravity sewer.
2. Completion of a Sewer Backup Protection Program application, Participation Agreement and applicable permit applications.
3. Applications will be processed on a first come, first serve basis determined by the date of permit approval.
4. Once the application and permits are processed and approved, work is completed to all applicable codes including having all of the required Building and Property Standards (BPS) inspections.
5. When work is complete, the resident requests reimbursement. Reimbursement will be limited to the current fiscal year budget for this program. If funding for the fiscal year has been exhausted, approved applications will be reimbursed when the next funding becomes available.
6. Applicants cannot have any outstanding Village fees to be eligible.
7. Residents will be required to disconnect their downspouts from the Village's combined sewer system unless receipt of a waiver from the Director of Building and Property Standards.

The Finance Committee recommended a Loan Program with a 50% reimbursement up to \$2,500 be implemented at a funded amount of \$225,000.

3. Sewer Study Update:

Staff recommended creating a combined sewer system computer model which would include a two year contract and a budget of \$100,000 in 2012 and \$150,000 to be budgeted in 2013. Phase I of the contract would be completed in 2012 and will focus on the Geographic Information System (GIS) portion of the model while the 2013 phase will focus on the actual creation of the model and calibrating the model with field data.

Creating a sewer model and having an accurate sewer system on GIS is critical to managing the Village's combined sewer system. These models are used for planning, designing, and analyzing sewer collection systems. They are used to project how the sewer system performs during various storm events. They are also necessary to determine the effectiveness, benefits to costs, and any adverse side effects of improvements or programs intended to alleviate flooding.

Sewer modeling software is based on GIS data. The Village maintains GIS databases of our combined sewer system but this data does not have all the necessary information or level of accuracy needed to immediately use with modeling software. Under phase I of the sewer modeling contract a consultant working with staff will update the GIS data to incorporate recent sewer improvements; add and correct manhole locations and data; add elevation data to all the existing sewer pipes and manholes; correct any errors in existing data; create a new sewer atlas for daily use by Public Works personnel; and link sewer GIS system to database of sewer televising.

Phase II of the modeling contract, to be budgeted for in 2013, will be the creation of the sewer model from this GIS data, calibrating the model by collecting flow data from sewer pipes, running the model with various scenarios to test the effectiveness of various proposed improvements to relieve flooding; and creating a capital improvement plan for sewers.

The creation of a sewer model and accompanying GIS data is critical to managing this major asset and addressing sewer backup concerns. The GIS data will be used as an asset management tool and help with mapping, daily operations and maintenance, managing televising inspections, and determining capital improvement needs. A sewer model will help the Village spend capital dollars more wisely by greatly enhancing our capital improvement plan and determining where to spend money most effectively. The sewer model can also be used to leverage grant funding by showing the Village's commitment to solving basement backup problems. A comprehensive GIS system and sewer model will ultimately save the Village money and help provide better service to the residents.

The Finance Committee supported the recommendation to request proposals for developing a sewer model, in a two phase program, with a budget of \$100,000 in 2012 and \$150,000 in 2013.

4. Inlet Restriction:

Staff recommended that a pilot program be developed to include the installation of inlet restrictors. By installing inlet restrictors, stormwater could be delayed getting into the sewer system thus relieving some of the burden placed on the sewer. This could result in improving the sewers capacity to convey the stormwater during periods of intense rain. Staff reviewed the

potential stormwater that could be stored in the street under various rain events (attachment 7). It was recommended that one block in the Northwest portion of Oak Park be considered as the subject area since this area is the headwaters of the East Avenue sewer which is a main sewer for the Northwest and Northeast parts of the Village. There are no reliable records of where previous inlet restrictors were placed as a result of the 1994 Combined Sewer System Evaluation. Staff inspections in this area did not reveal any inlet restrictors. This program will require field inspection, surveying, engineering and the installation of the restrictors. Staff recommended a budget of \$25,000 for this program.

The Finance Committee supported this recommendation, funded at \$25,000.

The following items were also discussed at the Finance Committee meeting and provided as informational:

Boulevard Bioswale

In December of 2011, the Engineering Division, with assistance from consultant Baxter Woodman, submitted an Illinois Green Infrastructure Grant (IGIG) application for the Lemoyne Parkway bioretention project. The proposed project involves reshaping the street and lowering the middle boulevard to create a storm water infiltration and retention basin which will help reduce the volume and runoff rate of storm water into the combined sewers. The proposed project is located on Lemoyne Parkway between Harvey and Austin and would also extend north and south on the adjacent side streets approximately to the alleys in order to capture as much storm water as possible.

The total cost for the project, which includes a complete reconstruction of the Lemoyne pavement, is approximately \$1.9 million. The Village requested approximately a 40% grant and 60% local match for the project to keep the application dollar amount within IGIG funding limits (approx. \$5 million in grant funds for entire state). The Illinois EPA, which administers the grant, anticipates announcing results of the applications in April 2012.

The proposed schedule for the project, should the Village receive the grant, is project design in 2012 and construction in 2013. Currently water main replacement projects are underway on Lemoyne Parkway, Harvey to Hayes started in 2011 and Hayes to Austin scheduled for 2012. The street pavement and curbs were budgeted and scheduled for replacement with these projects but temporary pavement patches were/will be placed in anticipation of the bioretention project. Should the Village not receive IGIG funding the Village will need to determine if the project should be built with local funds in order to take advantage of the opportunity to combine this project with the needed street reconstruction. System wide benefits for the

bioretention project cannot be determined until a comprehensive sewer model for the Village is completed in 2013.

Permeable Pavements:

The Engineering Division, with assistance from consultant Baxter Woodman, submitted an IGIG application for a green alley project. Eight alleys were selected for the application. These alleys were already scheduled for replacement in the next 5 years with the annual alley improvement program and fall within an area of sandy soils which makes them ideal candidates for permeable pavements. The selected alleys would be reconstructed with permeable pavements in order to reduce the amount and rate of storm water which enters the combined sewers.

The total cost for the project is approximately \$770,000 with a local match of 25%. The proposed schedule, should the Village receive the grant, is project design in 2012 and construction in 2013. As with the bioretention project, IGIG results should be received in April 2012. The Illinois EPA reserves the right to fund the proposed projects at a lower rate which would result in not all eight green alleys being constructed.

Hazard Mitigation Plan:

The Federal Emergency Management Agency (FEMA) administers several grant programs that provide federal funding to states which allows the funds to be used for planning and projects by local governments. In order to take advantage of these programs, communities must have completed an approved Hazard Mitigation Plan (HMP).

Cook County was set to begin the development of a countywide HMP, of which Oak Park would become part of, but there is no reported progress to our knowledge. It had earlier been reported that the county plan may not be completed until the end of 2012.

It has also been suggested that we consider developing an interagency HMP with Berwyn and Cicero, however all communities have expressed interest in securing funding of the plan first before moving forward.

Previous staff efforts on this issue included a meeting with Berwyn, Cicero and an engineering consultant, CDM, to discuss the possibility of engaging in a multi community plan. Some benefits of moving forward with an HMP with these communities as opposed to waiting for the county plan are;

1. The process of completing a plan could be accomplished much sooner than the Cook County plan (estimated at approximately 6 months after giving a consultant the notice to proceed).

2. A multi community plan may carry more weight when applying for projects since it would benefit a larger population.
3. Oak Park could still be part of the overall county plan if and when it is complete.

Based on our conversation and the limited movement on the above options, it was decided that we will work with our new Emergency Preparedness and Response Manager to develop a plan to complete an HMP in-house. We expect this effort will take approximately six months. Limited funding may be necessary in the event staff needs consultant assistance with the plan development.

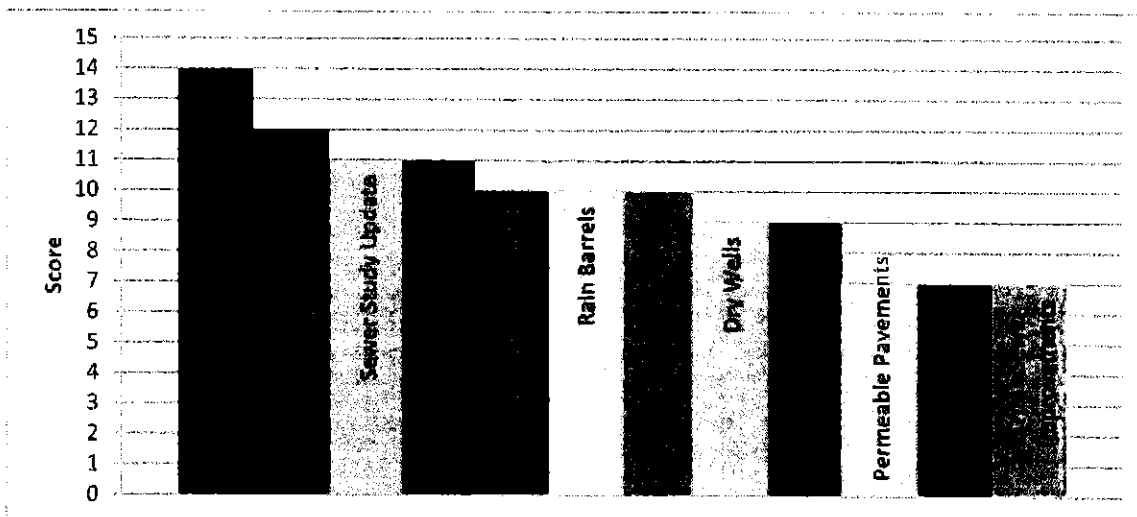
Attachment 1

Table 5 – Summary Table of Opportunities Ranking

	Improvement	Relative Benefit	Ease of Implementation for Village	Relative Cost	Score
1	Downspout Disconnections	4	5	5	14
2	Overhead Sewers and Backflow Prevention	5	4	3	12
3	Sewer Study Update	5	4	2	11
4	Inlet Restriction	4	4	3	11
5	Boulevard Bioswale	3	5	2	10
6	Rain Barrels	3	3	4	10
7	Rain Gardens	3	3	4	10
8	Dry Wells	2	3	4	9
9	Demonstration Site	3	3	3	9
10	Permeable Pavements	3	2	2	7
11	Local Sewer Improvements	4	1	2	7
12	Trunk Sewer Improvements	5	1	1	7

Key: Relative Benefit: 5 = High / 1 = Low
 Ease of Implementation: 5 = Easy / 1 = Difficult
 Relative Cost: 5 = Low Cost / 1 = High Cost

Figure 12 – Summary Figure of Opportunities' Ranking



The recommended short-term programs are listed here and further described in the following sections:

- Downspout Disconnection Program to aggressively promote the disconnection of downspouts in 2012;
- Overhead Sewer and Other Private Backflow Prevention Cost-share Program to support residents in installing backflow prevention systems in their homes;



VOLUNTARY DOWNSPOUT DISCONNECT PROGRAM

INTRODUCTION

The Village of Oak Park is developing a downspout disconnect program in which we will be educating residents about the benefits and value of disconnecting downspouts. Participation in this program will be voluntary.

Many homes in Oak Park have roof gutter downspouts that are still connected into the building's sewer system. This conveys storm water through the building's private sewer into the public combined sewer system. On normal flow days (sunny weather and minimal precipitation), the overall sewer system works well. However, during heavy rain events or during rapid snow melts, the sewer system can easily become overwhelmed and cause sewer/storm water backups into basements. This program is designed to begin to reduce the amount of storm water from entering the sewer system and overwhelming the sewer capacity. The diverted storm water from the disconnected downspout would flow into rain barrels, grassy areas, and rain gardens helping to prevent basement flooding.

BENEFITS OF DOWNSPOUT DISCONNECTION

There are many benefits to having your downspouts disconnected that will benefit individuals and your community as a whole.

- Eliminating excess rain water from entering the sewer system will help prevent basement flooding due to overwhelmed sewers
- Keeping rain water on your property in rain barrels, and by using water-efficient landscaping will help you use less tap water for watering plants, lawns, and gardens
- Improve the quality of water in our water supply. Only water that is not absorbed into the ground will enter the sewers and eventually into the water ways

WHAT YOU NEED TO KNOW BEFORE DISCONNECTING YOUR DOWNSPOUT

It is important to perform the work correctly. When redirecting stormwater, it is important that the water is directed into a place where the water will be able to soak into the ground that is away from your building foundation and not onto your neighbor's property. The following guidelines will help to ensure that your disconnection is done properly:

- Downspouts should be extended at least three to six feet away from the building foundation wall and flow away from the building.

- Pick a suitable area for the water to flow to such as a grassy area or rain garden. Route downspout extensions under decks or patios to reach these permeable areas.
- Use a splash block to avoid soil erosion.
- Avoid placing an extension across a sidewalk to create a tripping hazard.
- Water flows may freeze during cold months, avoid flowing water onto sidewalks or driveways.
- The use of rain barrels can store storm water for future use in watering plants and gardens; however, rain barrels can fill up quickly and will need to have an overflow that will allow this excess water to soak into the ground.
- Consider creating a rain garden or use native plants in landscaping to help absorb the storm water runoff.
- Remember to cap off the sewer that enters the ground. An open pipe can allow debris and animals from entering your sewer. It will also prevent sewer gasses from escaping the sewer causing odor problems.

Proper maintenance of your gutters and downspouts is important. Be sure to clean them twice a year or as needed to ensure that there is an unobstructed flow. Check all connections to ensure that they are secure. Clogged gutters and downspouts can backup and potentially cause water to infiltrate into the eaves and ceilings of your home.

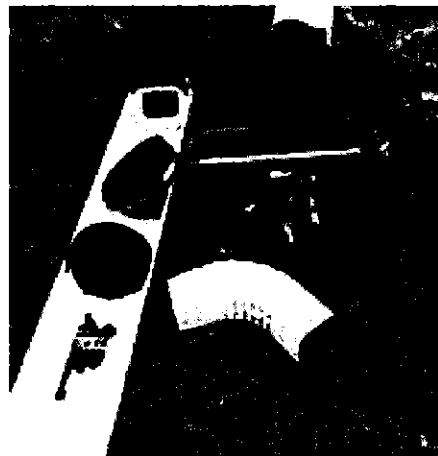
WHERE TO BEGIN

Before beginning your downspout disconnection project, plan where the storm water will go to. There are many considerations to take during a project like this; what materials, tools, and safety equipment that you will need. Draw a sketch to map out where the water will go. Your project should be a permanent solution that will benefit your lawn, plants, and gardens. Remember during cold months, water that flows onto hard surfaces such as sidewalks and driveways can freeze causing a hazard.

Let's Get Started

Here is a list of materials and tools that will be needed to complete this project:

- Hacksaw
- Tape measure
- Hammer
- Screw Driver
- Pliers
- Sheet metal screws
- Downspout elbow
- Downspout extension
- Splash block
- Sewer cap



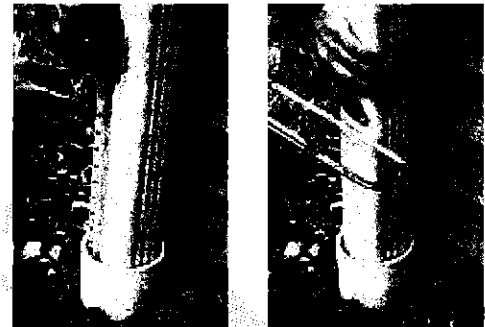
The following are some simple steps that will help in your disconnection project.

Step 1

Make sure that the downspout is securely anchored to the exterior of the building.

Step 2

Measure and cut the downspout approximately 10" above the ground using a hacksaw. The height may vary depending on the downspout elbow purchased and the configuration of your downspouts.



Step 3

Remove the cut piece of downspout from sewer riser. You may have to make an additional cut slightly above the sewer riser and loosen any mortar cement with a hammer and chisel to remove.



Step 4

Install the sewer cap onto the sewer riser. If a rubber cap or sewer plug does not fit, plug the top of the sewer riser with crumpled newspaper and cover with at least 1" of mortar cement.



Step 5

Install the downspout elbow. Insert the downspout INTO the elbow. If the elbow is inserted into the downspout, it will leak. You may need to crimp the end of the downspout to get a good fit. Secure with a sheet metal screw.



Step 6

Attach the downspout extensions to carry the water away from the foundation. Remember to insert the extension into the elbow to prevent it from leaking. Install as many extensions as needed to reach your desired run off location. Use sheet metal screws to secure extensions together. Install a splash block to protect grass and plants from erosion.



FREQUENTLY ASKED QUESTIONS

What is a downspout?

A downspout is a pipe that carries storm water from the roof of your home or gutter down from the eaves and into the building sewer or out onto the lawn.

What is a combined sewer?

A combined sewer collects both storm water and sanitary sewerage from your homes and streets into the same sewer main and conveys it to the Metropolitan Water Reclamation District of Greater Chicago for treatment before it is released into the water ways.

How does disconnecting my downspout prevent basement flooding?

By disconnecting your downspout, it reduces the amount of storm water from entering the sewer system helping to eliminate the sewer system from being overwhelmed and potentially backing up into basements.

What if there is no where to direct the water to?

There may be some circumstances in which buildings are close together and there are no permeable areas to flow the water to. These circumstances may prevent you from completing a downspout disconnection.

What is a rain barrel?

A rain barrel is a plastic drum that is designed to capture storm water from your downspouts and store the water for future use of watering plants, shrubs, and other landscaping.

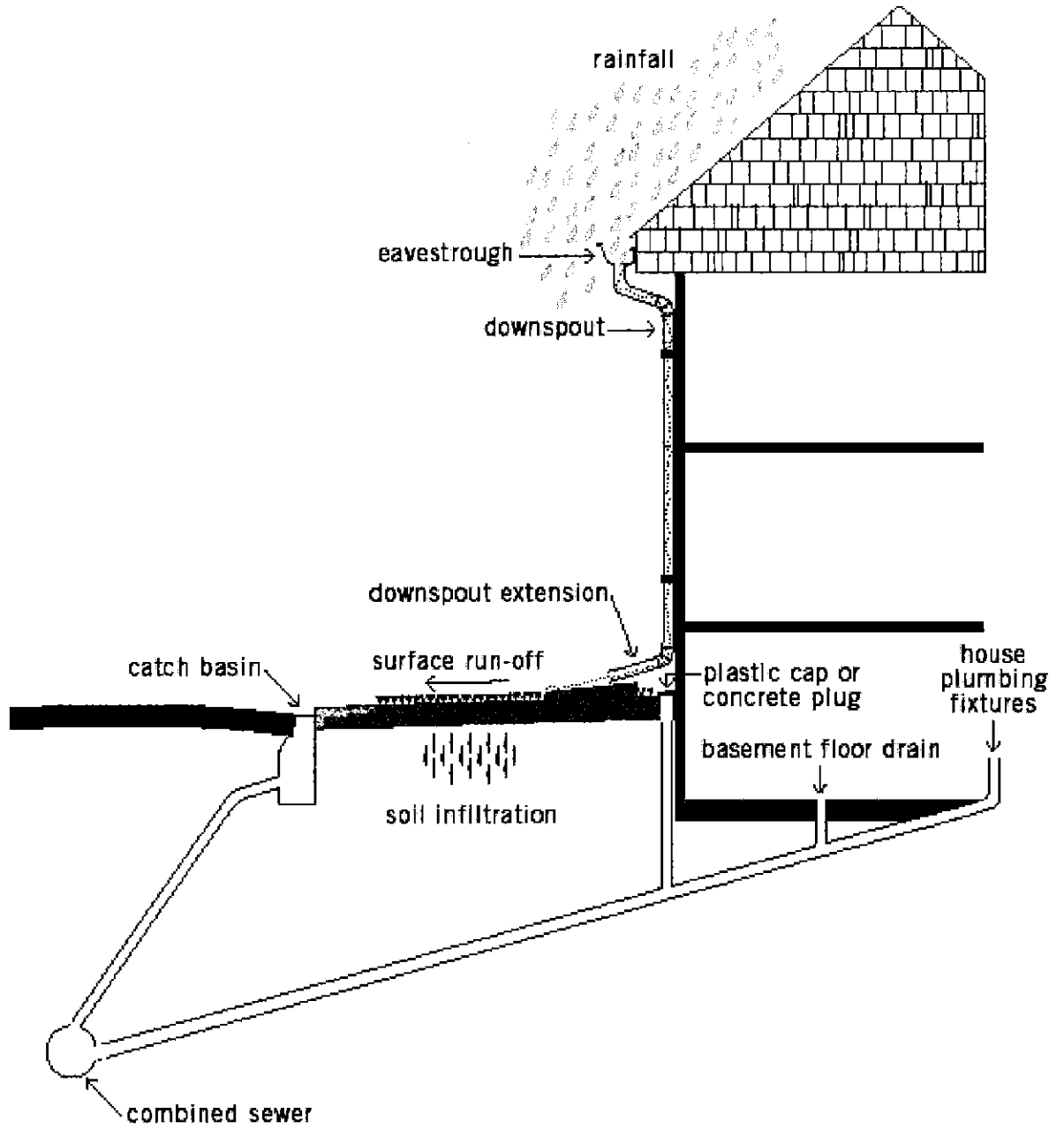


Is disconnecting my downspout mandatory?

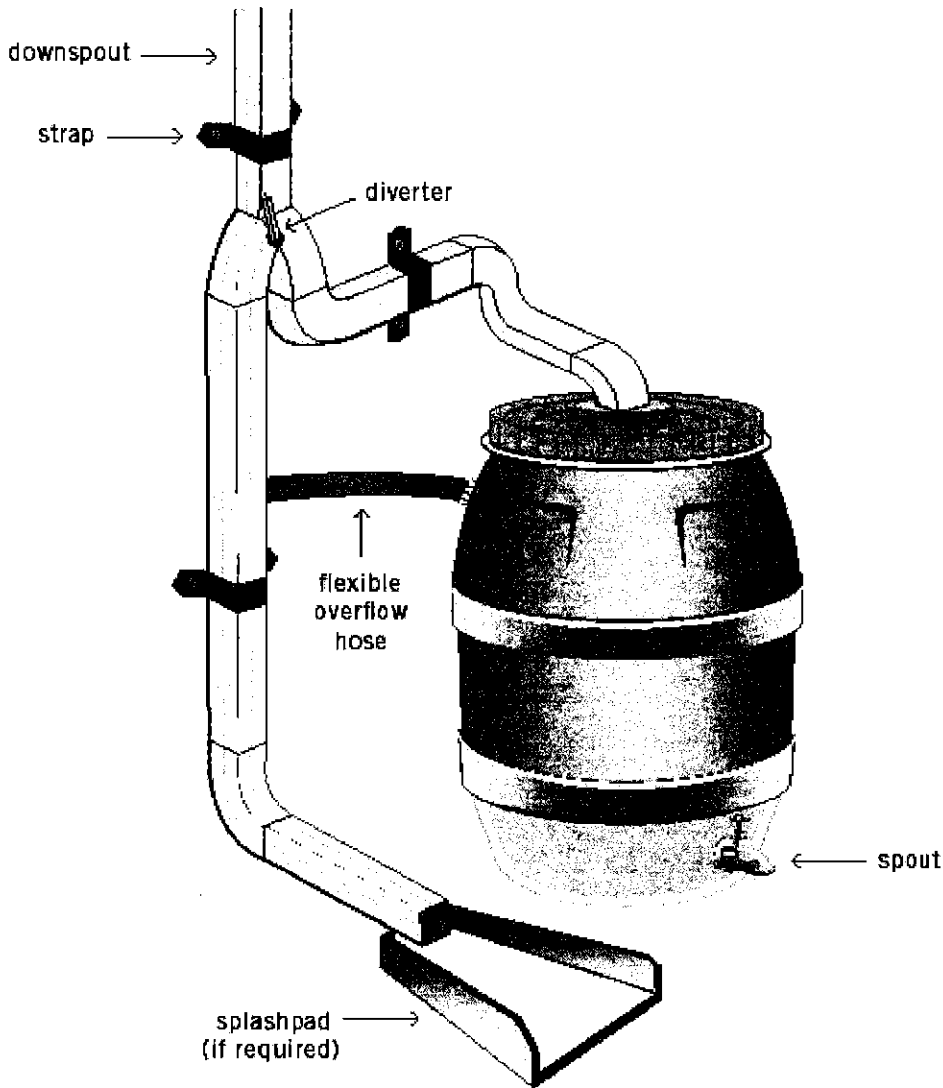
No, this is a voluntary program.

Typical Detail of Downspout Disconnection

COMBINED SEWER

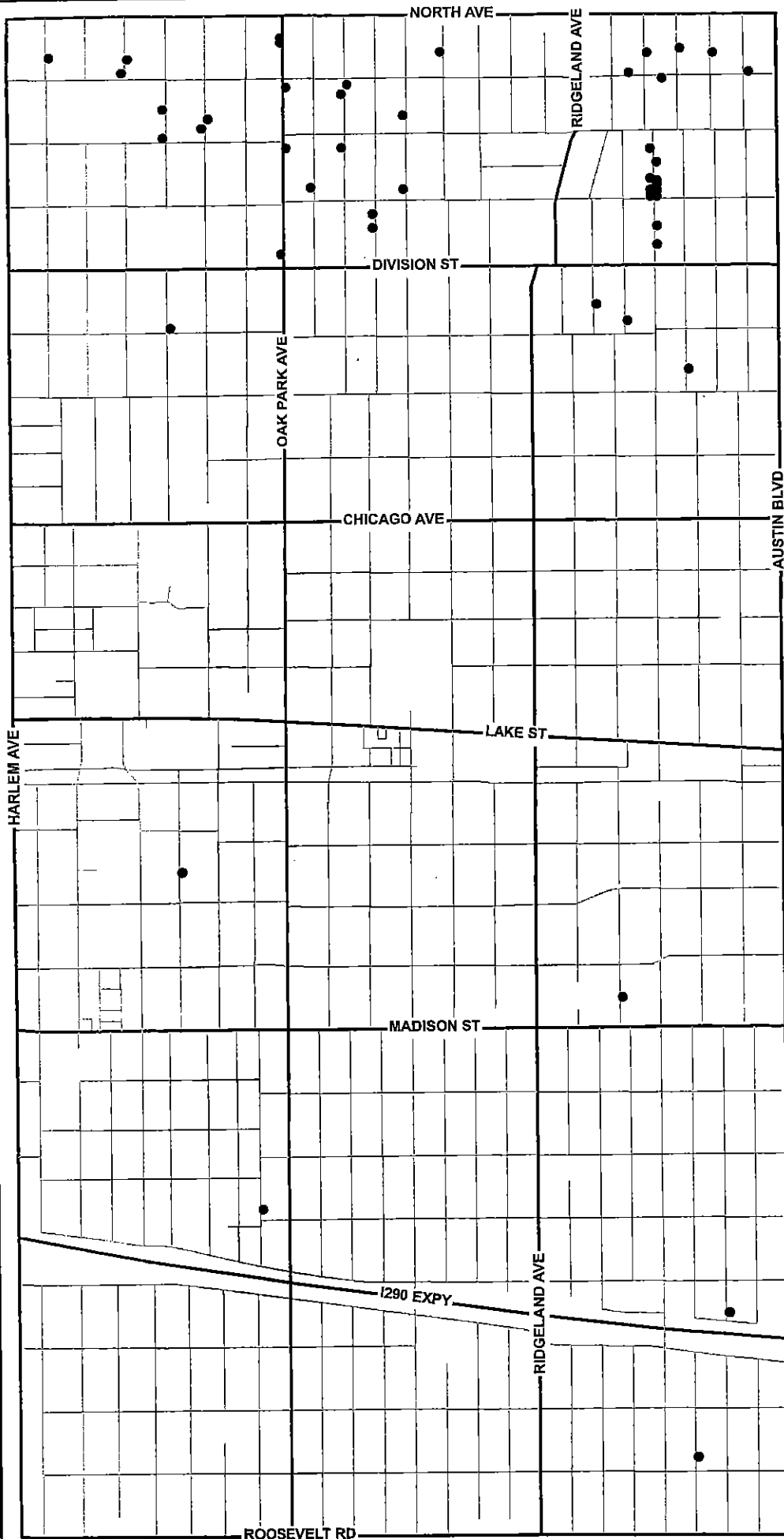
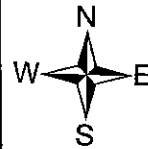


Rain Barrel



Basement Flooding Protection Programs
February 2012

Municipality	Percent	Maximum Amount	Comments
Arlington Heights	50	\$5,000.00	OH sewer and backflow valves. Homeowner responsible for all restoration costs
Bloomingtondale	50	\$5,000.00	OH sewer and backflow valves
Elmhurst	50	\$5,000.00	OH sewer only
Elmwood Park		\$1,500.00	For approved "Flood Control Systems"
Forest Park	50	\$1,500.00	\$2,000.00 for low income households. For approved "Flood Control Systems"
Glen Ellyn	50	\$2,500.00	OH sewer and backflow valves
Glenview	50	\$7,500.00	OH sewer only
Hanover Park	75	\$5,000.00	OH sewer only
Lombard	75	\$5,000.00	Homeowner pays first 25%. OH sewer only
River Forest	50	\$4,000.00	OH sewer and backflow valves
Schaumburg	50	\$5,000.00	OH sewer only. Also has a program for footing drain disconnection cost sharing at 50%, max. \$5,000
Wheaton	50	\$3,000.00	OH sewer only. \$25,000 annual budget (1st come, 1st serve)



0 0.25 0.5 miles

Scale = 1:19,200

52 Flood Control Systems installed in 2011 in the Village of Oak Park according to the Building and Property Standards Department

Village of Oak Park Engineering Division

Created By: Mike Kopperniak
Created On: 02/09/2012
Printed On: 02/09/2012
Filename: GIS0120120209A01.mxd

GIS Providing Answers to Your Questions



Oak Park

**SEWER BACKUP PROTECTION
GRANT PROGRAM**

FEBRUARY 2012

SEWER BACKUP PROTECTION PROGRAM

WHAT IS IT?

The Village of Oak Park Sewer Backup Protection Program was established to provide financial assistance to homeowners who desire to protect their home from flooding during a heavy rain event. The program's intent is to offset a portion of the expense that a homeowner will incur to modify the building plumbing system such that sewage cannot backflow in the building when the Village sewers are full. Eligible homeowners may qualify for 50% cost sharing, up to a maximum of \$5,000.00, for installing either an Overhead Sewer System or a Backflow Prevention Valve System.

WHO IS ELIGIBLE TO PARTICIPATE IN THIS PROGRAM?

The program is open to those single-family owner-occupied homes that are susceptible to sewer backup by way of a gravity sewer line. Other properties, such as multi-family housing, may be eligible for other Village programs through the Housing Programs Division.

Homeowners who have outstanding Village fees are not eligible for the Sewer Backup Protection Program.

HOW DO THESE SYSTEMS WORK?

The typical layout of an existing home plumbing system is shown on Figure 1. To modify the plumbing system to provide sewer backup protection there are three basic options:

1. Modify the sewer piping and inside plumbing that goes out to the Village sewer in a new Overhead Sewer System and eliminate all gravity drainage below the basement floor (See Figure 2).
2. Modify the inside plumbing by disconnecting all basement level plumbing fixtures from the gravity drainage system and redirect their discharge to an ejector pump. The pump then discharges into an existing soil stack. This is referred to as a Modified Overhead Sewer System (See Figure 3).
3. Install a Backflow Prevention Valve System and bypass the sewer line in an underground manhole (See Figure 4).

Each of the above approaches has different costs, degrees of disruption and levels of protection.

Please note that the installation of a new Overhead Sewer System is strongly recommended to provide the greatest protection under all weather conditions and storm events to prevent sewage from entering the building.

Homeowners are required to disconnect roof drainage/downspouts as part of this program unless an exemption is obtained from the Director of the Building and Property Standards Department.

WHAT WORK IS COVERED UNDER THIS REIMBURSEMENT PROGRAM?

The following are Eligible costs as part of this program:

- Cost of location, excavation and exposure of the building sewer, including the support of existing structures, for reconnection of a new overhead sewer to the existing sewer line.
- Cost of a new pump pit, ejector pump and associated electrical and plumbing works needed to lift the drainage from basement plumbing fixtures to an overhead sewer or existing soil stack.
- Cost of trenching and concrete floor replacement.
- Cost of installing a backflow prevention valve with a bypass (new sump and sump pump in an underground vault) and associated electrical and plumbing work.
- Cost of grass seeding or sod to restore disrupted landscape.
- Battery backup system.
- Applicable permit fees.

The following are Non-Eligible costs as part of this program:

- Removal and replacement of interior basement walls and finishes.
- Use of materials not meeting the requirements of the Village's Specifications or Codes.
- Ancillary homeowner improvements not necessary to provide backup protection of the basement.
- Planting of new or replacement landscaping (bushes and trees) other than grass seeding.
- New electrical panels and/or upgrading the house electrical supply.

HOW DO I APPLY?

The following are the basic steps for the program:

1. Homeowners complete the application materials which include:
 - a. Completed application Form and submit to the Building and Property Standards Department.
 - b. Detailed drawings and proposal from a licensed plumbing contractor, including all technical information on pumps, valves, electrical work, etc. The Village encourages homeowners to obtain at least three estimates from qualified contractors for this work.
 - c. Complete the permit application forms, plumbing and electrical (with applicable fees paid).

Note: Applications will be processed on a first come, first serve basis, based on when the permits are approved.

2. The Village will review the information submitted and either approve the application and permits or return them for revisions.

3. When the permit is approved, the contractor may begin work. All work shall meet all applicable Village and State Codes. The contractor shall schedule necessary inspections by the Building and Property Standards Department throughout the construction.
4. Homeowner submits a Request for Reimbursement Form, with necessary certifications from the contractor that the work was completed in accordance with Village and State Codes, to the Village Engineer, located at the Public Works Center, 201 South Boulevard, Oak Park, IL, 60302.
5. Once the Village Engineer reviews the request, and if in conformance with the program requirements, the Request for Reimbursement will be forwarded to the Villages Finance Department. Payment typically takes 3-4 weeks.

DRAFT

VILLAGE OF OAK PARK
SEWER BACKUP PROTECTION PROGRAM
APPLICATION FORM

GENERAL INFORMATION

Date: _____

Name: _____

Address: _____

Daytime Phone No: _____ email address: _____

Date you moved into home/building: _____

Are the downspouts disconnected from the Village Sewer System? _____ Yes _____ No

Does your building have an outside Catch Basin? _____ Yes _____ No

Does the building have a foundation/footing drain? _____ Yes _____ No

Please check all basement plumbing fixtures found in your building:

_____ Floor Drain _____ Shower/tub _____ Slop sink/wash basin

_____ Sump pump _____ Ejector pump _____ Lavatory/toilet

Other (please describe) _____

What is the frequency of basement flooding? _____

APPLICATION MATERIALS REQUIRED

The following documents must be attached to this application in order for the application to proceed and for a permit to be issued.

_____ Copy of detailed drawing/proposal from plumbing contractor to complete the work;

_____ Signed Property Owner Participation Agreement; and

_____ Completed permit application forms (with applicable fees paid).

For Village Use Only
Date application received: _____ by: _____

**VILLAGE OF OAK PARK
SEWER BACKUP PROTECTION PROGRAM
REQUEST FOR REIMBURSEMENT FORM**

Date: _____

Name: _____

Address: _____

Daytime Phone No: _____ email address: _____

Date plumbing work was completed: _____

Plumbing permit number issued: _____

Name of Contractor performing work: _____

Total cost of eligible expenses: _____

Total amount of reimbursement requested: _____

(50% of eligible expenses not to exceed \$5,000)

OWNER CERTIFICATION

I, _____, am the owner/occupant of the premises indicated above and I certify that all of the information contained on this Request for Reimbursement Form is true and accurate to the best of my knowledge.

Signature

Date

CONTRACTOR CERTIFICATION

I, _____ of _____ certify that all work completed under this program has been performed in accordance with all applicable Village Codes.

Signature

Date

For Village Use Only

Approved for permits: _____

Final inspection approved: _____

Approved for Reimbursement: _____

**VILLAGE OF OAK PARK
SEWER BACKUP PROTECTION PROGRAM
PROPERTY OWNER PARTICIPATION AGREEMENT
(Submit in Duplicate)**

THIS AGREEMENT made on this _____ day of _____, 20__ between the VILLAGE OF OAK PARK, 123 Madison Street, Oak Park, Illinois (hereinafter referred to as "Village") and _____ (name) and _____ (name) at _____ (address) in Oak Park, Illinois (hereinafter referred to collectively as "Property Owner").

WITNESSETH:

WHEREAS, Property Owner is the owner of a building located at the address indicated above and such building has been the subject of occasional basement flooding, including backup from the Village's sewer system in the past; and

WHEREAS, the Village has adopted a program to protect basements in the Village and such program provides for the reimbursement to Property Owners for certain basic costs of upgrading their plumbing in order to minimize sewage backflow, a copy of which program is available at the Village (hereinafter referred to as the "Program"); and

WHEREAS, the Property Owner desires to participate in such Program and the Village and the Property Owner desire to enter into this Agreement governing the installation of plumbing improvements in the Property Owners building and the Village's reimbursement of certain expenses relating thereto in accordance with the Program.

NOW, THEREOFRE, in consideration of the above and the terms and conditions set forth below and for other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Section 1: The preamble paragraphs set forth above are hereby expressly made a part of and operative provisions of this Agreement as fully as if set forth at length in this Section 1.

Section 2: Definitions. The following terms shall have the following meaning when used in this Agreement unless the context clearly indicates a contrary meaning.

"Contractor" shall mean a contractor who has obtained the necessary licenses and permits from the Village to do work under the Program.

"Program" is the program for the installation of Property Owner plumbing improvements to prevent sewage backup within the Village as established by the administrative program adopted by the Village.

"Proposal" shall mean a detailed bid for equipment, material and labor. Quantities shall be itemized.

“Guide Specifications” are the specifications and requirements for the plumbing work developed by the Village.

“Permit” is the Village permit which Property Owner must obtain before any improvements can be installed by a Contractor.

Section 3: Village Approval. Prior to the installation of any plumbing facilities for which Property Owner expects reimbursement hereunder, the specific plans, including the Proposal, shall be submitted to the Village for approval. No work shall be commenced until such Village approval is obtained. If any such work is commenced without Village approval, Property Owner shall not be entitled to reimbursement for any work done prior to Village approval.

Section 4: Installation. Property Owner agrees to install the approved plumbing facilities in accordance with the Program. Installation shall be performed according to the Guide Specifications. The time may be extended upon written request by Property Owner and written permission by the Village if the work is delayed because of weather, unavailability of a Contractor or other factor beyond the Property Owner’s control where Property Owner has exercised reasonable diligence to timely complete the installation of the facilities.

Section 5: Contract for Work. The contract for installation shall be signed based on the Proposal attached hereto and hereby made part hereof as **Exhibit A**. The contract for the installation shall be a contract between the Contractor and the Property owner. The Village shall not be a party to such contract.

Section 6: Permit Required. The installation of the plumbing and electric facilities will require a permit issued by the Village.

Section 7: Inspections. The Village must be notified so that it can inspect the plumbing and electric work as required by the Program Procedures.

Section 8: Reimbursement Items. The Village will reimburse the items listed in the reimbursement guidelines included in the summary for the Program. In no event shall the amount of reimbursement exceed \$5,000.00.

Section 9: Payment of Reimbursement. Reimbursement of eligible items at approved amounts will be made when all work is completed, inspected and approved by the Village. To receive a reimbursement, Property Owner must follow all requirements of this Agreement and submit a claim on the Request for Reimbursement Form.

Section 10: Property Owner’s Responsibility. Once the work is completed it will be the responsibility of the Property Owner including, but not limited to, the following items:

- a. Restoration or replacement of shrubbery.
- b. Correction of subsidence in the excavated area. Settling of excavated soils is common. The Property Owner will be responsible for any future filling and reseedling.
- c. Future maintenance of ejector pump, backflow valve, overhead sewer, associated electrical equipment and all other related equipment and

improvements. Like all equipment, this equipment and related items may require checking, service or repair in the future. The Property Owner is responsible for this future maintenance.

Section 11: Liability. The Village shall have not liability for any defective work or other damage, injury or loss on account of any act or omission of the Contractor in the performance of the work. The Property Owner must make any claim for such matters directly against the Contractor or Contractor's insurance carrier. Property Owner hereby agrees to indemnify and hold Village harmless against any and all claims and further covenants not to sue the Village for any and all claims.

Section 12: Disclaimer. The Program is designed to substantially reduce the risk of basement backups. However, there is always some risk of basement backup as a result of unexpected sewer collapse, obstruction, power failure, extreme environments conditions or other unforeseen factors. Proper operation of foundation drains is necessary to prevent seepage of ground water through walls below grade. Existing foundation drains will not be tested for proper operation in the Program – the Property Owner has the responsibility for all testing, inspections and any corrective work that may become necessary.

In addition, reliable continuous functioning of Property Owner's sump/ejector pump(s) is necessary for overhead sewers, backflow prevention valves and foundation drains to function properly. The Property Owner has the responsibility to check the operation of the pumps regularly. The Property Owner has the responsibility for all testing, inspections and any corrective work that may become necessary.

It is further recommended that the Property Owner install a battery backup system to provide protection in the event of power failure.

Section 13: Notices. Unless otherwise notified in writing, all notices, requests and demands shall be in writing and shall be personally delivered to or mailed by the United States Certified mail, postage prepaid and return receipt requested, as follows:

For the Village:

Village Engineer
Village of Oak Park
Department of Public Works
201 South Boulevard,
Oak Park, Illinois 60302

For the Property Owner:

Name: _____

Address: _____

Phone: _____

Or at such other addresses that any party hereto may designate in writing to the other parties pursuant to the provisions of this Section.

Section 14: Disconnection of Downspouts. Property Owner must disconnect any downspouts from the Village's combined sewer system and must take all corrective action necessary to prevent the discharge of roof drainage into the Village's combined sewer systems, unless an exemption is obtained from the Director of the Building and Property Standards Department.

Section 15: Breach. If the Property Owner fails to comply with all requirements of this Agreement or to complete installation as provided in this Agreement, the Village shall have no obligation to reimburse the Property Owner.

Section 16: Entire Agreement. This Agreement shall be binding on the parties, their assigns and successors. This Agreement and the documents referenced in this Agreement constitute the entire agreement between the parties and supersede. This Agreement shall not be modified except in writing signed by the parties.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the dates written below.

VILLAGE OF OAK PARK, an Illinois Municipal Corporation

By: _____

Thomas W. Barwin
Village Manager

ATTEST:

By: _____

Teresa Powell
Village Clerk

SIGNATURE(S) OF PROPERTY OWNER(S)

ACKNOWLEDGMENTS

STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that Thomas W. Barwin, known to me personally known to me to be the Manager of the Village of Oak Park, and Teresa Powell, personally known to me to be the Clerk of said municipal corporation, and personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that such Manager and Village Clerk, they signed and delivered the said instrument and caused the corporate seal of said municipal corporation to be affixed thereto, pursuant to authority given by the Village Board of said municipal corporation, as their free and voluntary act, and as the free and voluntary act and deed of said municipal corporation, for the uses and purposed therein set forth.

GIVEN under my hand and official seal, this _____ day of _____, 20__.

Commission expires _____

Notary Public

STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that the above-named _____ and _____, personally known to me to be the same persons whose name are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed and delivered the said instrument as their own free and voluntary act for the uses and purposes therein set forth.

GIVEN under my hand and official seal, this _____ day of _____, 20__.

Commission expires _____

Notary Public



Oak Park

SEWER BACKUP PROTECTION LOAN PROGRAM

FEBRUARY 2012

SEWER BACKUP PROTECTION LOAN PROGRAM

WHAT IS IT?

The Village of Oak Park Sewer Backup Protection Program was established to provide financial assistance to homeowners who desire to protect their home from flooding during a heavy rain event. The program's intent is to offset a portion of the expense that a homeowner will incur to modify the building plumbing system such that sewage cannot backflow in the building when the Village sewers are full. Eligible homeowners may qualify for a zero percent interest deferred title transfer loan of up to 50% of the total cost of flood improvements, for a maximum of \$5,000.00, to install either an Overhead Sewer System or a Backflow Prevention Valve System. Loans will be repaid in full upon sale or transfer of title.

HOW DO THESE SYSTEMS WORK?

The typical layout of an existing home plumbing system is shown on Figure 1. To modify the plumbing system to provide sewer backup protection there are three basic options:

1. Modify the sewer piping and inside plumbing that goes out to the Village sewer in a new Overhead Sewer System and eliminate all gravity drainage below the basement floor (See Figure 2).
2. Modify the inside plumbing by disconnecting all basement level plumbing fixtures from the gravity drainage system and redirect their discharge to an ejector pump. The pump then discharges into an existing soil stack. This is referred to as a Modified Overhead Sewer System (See Figure 3).
3. Install a Backflow Prevention Valve System and bypass the sewer line in an underground manhole (See Figure 4).

Each of the above approaches has different costs, degrees of disruption and levels of protection.

Please note that the installation of a new Overhead Sewer System is strongly recommended to provide the greatest protection under all weather conditions and storm events to prevent sewage from entering the building.

Homeowners are required to disconnect roof drainage/downspouts as part of this program unless an exemption is obtained from the Director of the Building and Property Standards Department.

WHAT WORK IS COVERED UNDER THIS LOAN PROGRAM?

The following are Eligible costs as part of this program:

- Cost of location, excavation and exposure of the building sewer, including the support of existing structures, for reconnection of a new overhead sewer to the existing sewer line.

- Cost of a new pump pit, ejector pump and associated electrical and plumbing works needed to lift the drainage from basement plumbing fixtures to an overhead sewer or existing soil stack.
- Cost of trenching and concrete floor replacement.
- Cost of installing a backflow prevention valve with a bypass (new sump and sump pump in an underground vault) and associated electrical and plumbing work.
- Cost of grass seeding or sod to restore disrupted landscape.
- Battery backup system.
- Applicable permit fees.

The following are Non-Eligible costs as part of this program:

- Removal and replacement of interior basement walls and finishes.
- Use of materials not meeting the requirements of the Village's Specifications or Codes.
- Ancillary homeowner improvements not necessary to provide backup protection of the basement.
- Planting of new or replacement landscaping (bushes and trees) other than grass seeding.
- New electrical panels and/or upgrading the house electrical supply.

WHO IS ELIGIBLE TO PARTICIPATE IN THIS PROGRAM?

The program is open to those single-family owner-occupied homes that are susceptible to sewer backup by way of a gravity sewer line.

Homeowners will be considered ineligible if:

- back taxes, water bills, or mechanics liens are owed, or
- Other financial threats to the owner's retention of title exist, including pending foreclosure

ELIGIBILITY OF VILLAGE EMPLOYEES

The Conflict of Interest and Ethics Ordinance will determine eligibility of Village employees for this program (1993-0-24, adopted 4/4/93 in addition to all other program requirements).

ELIGIBILITY FOR OTHER HOUSING PROGRAMS

Recipients of the Sewer backup Protection Loan Program continue to be eligible for other Village Housing Programs provided they meet the eligibility criteria for those programs.

REFINAINCING

The Village will only consider subordination in cases of extreme financial hardship, when the homeowner is requesting cash back from the refinancing and the equity taken out is being used for emergency home repairs. The homeowner shall provide a written statement describing the emergency. Staff will present the request to the Village Board of Trustees for consideration as soon as practicable.

HOW DO I APPLY?

The following are the basic steps for the program:

1. Homeowners complete the application materials which include:
 - a. Completed Application Form and submit to the Housing Programs Division.
 - b. Detailed drawings and proposal from a licensed plumbing contractor, including all technical information on pumps, valves, electrical work, etc. The Village encourages homeowners to obtain at least three estimates from qualified contractors for this work.

Note: Applications will be processed on a first come, first serve basis.

2. The Housing Programs Division will review the completed application and submit the Village Engineer for review.
3. Once the Village Engineer has reviewed the request, the loan application will be submitted to the Village Board for approval. Upon approval, the homeowner will be required to sign the loan agreement, note and mortgage. The Housing Programs Division will record the mortgage and notify the homeowner that they may proceed with the requested work.
4. The homeowner must then obtain all applicable permits before the contractor may begin work. All work shall meet all applicable Village and State Codes. The contractor shall schedule necessary inspections by the Building and Property Standards Department throughout the construction.
5. Homeowner submits a Request for Reimbursement Form, with necessary certifications from the contractor that the work was completed in accordance with Village and State Codes, to the Housing Programs Division. The Housing Programs Division will ensure that the work passed all required inspections.
6. If the Request for Reimbursement is in conformance with the program requirements, the Request will be forwarded to the Villages Finance Department for payment.

VILLAGE OF OAK PARK
SEWER BACKUP PROTECTION LOAN PROGRAM
APPLICATION FORM

GENERAL INFORMATION

Date: _____

Name: _____

Address: _____

Daytime Phone No: _____ email address: _____

Date you moved into home/building: _____

Are the downspouts disconnected from the Village Sewer System? _____ Yes _____ No

Does your building have an outside Catch Basin? _____ Yes _____ No

Does the building have a foundation/footing drain? _____ Yes _____ No

Please check all basement plumbing fixtures found in your building:

_____ Floor Drain _____ Shower/tub _____ Slop sink/wash basin

_____ Sump pump _____ Ejector pump _____ Lavatory/toilet

Other (please describe) _____

What is the frequency of basement flooding? _____

APPLICATION MATERIALS REQUIRED

The following documents must be attached to this application in order for the application to proceed and for a permit to be issued.

_____ Copy of detailed drawing/proposal from plumbing contractor to complete the work;

_____ Signed Property Owner Participation Agreement; and

_____ Completed permit application forms (with applicable fees paid).

<p><u>For Village Use Only</u></p> <p>Date application received: _____ by: _____</p>

**VILLAGE OF OAK PARK
SEWER BACKUP PROTECTION PROGRAM
REQUEST FOR REIMBURSEMENT FORM**

Date: _____
Name: _____
Address: _____
Daytime Phone No: _____ email address: _____
Date plumbing work was completed: _____
Plumbing permit number issued: _____
Name of Contractor performing work: _____
Total cost of eligible expenses: _____
Total amount of reimbursement requested: _____
(50% of eligible expenses not to exceed \$5,000)

OWNER CERTIFICATION

I, _____, am the owner/occupant of the premises indicated above and I certify that all of the information contained on this Request for Reimbursement Form is true and accurate to the best of my knowledge.

Signature Date

CONTRACTOR CERTIFICATION

I, _____ of _____ certify that all work completed under this program has been performed in accordance with all applicable Village Codes.

Signature Date

For Village Use Only

Approved for permits: _____

Final inspection approved: _____

Approved for Reimbursement: _____

**VILLAGE OF OAK PARK
SEWER BACKUP PROTECTION PROGRAM
PROPERTY OWNER PARTICIPATION AGREEMENT
(Submit in Duplicate)**

THIS AGREEMENT made on this _____ day of _____, 20__ between the VILLAGE OF OAK PARK, 123 Madison Street, Oak Park, Illinois (hereinafter referred to as "Village") and _____ (name) and _____ (name) at _____ (address) in Oak Park, Illinois (hereinafter referred to collectively as "Property Owner").

WITNESSETH:

WHEREAS, Property Owner is the owner of a building located at the address indicated above and such building has been the subject of occasional basement flooding, including backup from the Village's sewer system in the past; and

WHEREAS, the Village has adopted a program to protect basements in the Village and such program provides for the reimbursement to Property Owners for certain basic costs of upgrading their plumbing in order to minimize sewage backflow, a copy of which program is available at the Village (hereinafter referred to as the "Program"); and

WHEREAS, the Property Owner desires to participate in such Program and the Village and the Property Owner desire to enter into this Agreement governing the installation of plumbing improvements in the Property Owners building and the Village's reimbursement of certain expenses relating thereto in accordance with the Program.

NOW, THEREOFRE, in consideration of the above and the terms and conditions set forth below and for other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

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Section 3: Village Approval. Prior to the installation of any plumbing facilities for which Property Owner expects reimbursement hereunder, the specific plans, including the Proposal, shall be submitted to the Village for approval. No work shall be commenced until such Village approval is obtained. If any such work is commenced without Village approval, Property Owner shall not be entitled to reimbursement for any work done prior to Village approval.

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Section 5: Contract for Work. The contract for installation shall be signed based on the Proposal attached hereto and hereby made part hereof as **Exhibit A**. The contract for the installation shall be a contract between the Contractor and the Property owner. The Village shall not be a party to such contract.

Section 6: Permit Required. The installation of the plumbing and electric facilities will require a permit issued by the Village.

Section 7: Inspections. The Village must be notified so that it can inspect the plumbing and electric work as required by the Program Procedures.

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Section 10: Property Owner's Responsibility. Once the work is completed it will be the responsibility of the Property Owner including, but not limited to, the following items:

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improvements. Like all equipment, this equipment and related items may require checking, service or repair in the future. The Property Owner is responsible for this future maintenance.

Section 11: Liability. The Village shall have not liability for any defective work or other damage, injury or loss on account of any act or omission of the Contractor in the performance of the work. The Property Owner must make any claim for such matters directly against the Contractor or Contractor's insurance carrier. Property Owner hereby agrees to indemnify and hold Village harmless against any and all claims and further covenants not to sue the Village for any and all claims.

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In addition, reliable continuous functioning of Property Owner's sump/ejector pump(s) is necessary for overhead sewers, backflow prevention valves and foundation drains to function properly. The Property Owner has the responsibility to check the operation of the pumps regularly. The Property Owner has the responsibility for all testing, inspections and any corrective work that may become necessary.

It is further recommended that the Property Owner install a battery backup system to provide protection in the event of power failure.

Section 13: Notices. Unless otherwise notified in writing, all notices, requests and demands shall be in writing and shall be personally delivered to or mailed by the United States Certified mail, postage prepaid and return receipt requested, as follows:

For the Village:

Village Manager
Village of Oak Park
123 Madison St.
Oak Park, Illinois 60302

For the Property Owner:

Name: _____

Address: _____

Phone: _____

Or at such other addresses that any party hereto may designate in writing to the other parties pursuant to the provisions of this Section.

Section 14: Disconnection of Downspouts. Property Owner must disconnect any downspouts from the Village's combined sewer system and must take all corrective action

necessary to prevent the discharge of roof drainage into the Village's combined sewer systems, unless an exemption is obtained from the Director of the Building and Property Standards Department.

Section 15: Breach. If the Property Owner fails to comply with all requirements of this Agreement or to complete installation as provided in this Agreement, the Village shall have no obligation to reimburse the Property Owner.

Section 16: Entire Agreement. This Agreement shall be binding on the parties, their assigns and successors. This Agreement and the documents referenced in this Agreement constitute the entire agreement between the parties and supersede. This Agreement shall not be modified except in writing signed by the parties.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed as of the dates written below.

VILLAGE OF OAK PARK, an Illinois Municipal Corporation

By: _____

Thomas W. Barwin
Village Manager

ATTEST:

By: _____

Teresa Powell
Village Clerk

SIGNATURE(S) OF PROPERTY OWNER(S)

ACKNOWLEDGMENTS

STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that Thomas W. Barwin, known to me personally known to me to be the Manager of the Village of Oak Park, and Teresa Powell, personally known to me to be the Clerk of said municipal corporation, and personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person and severally acknowledged that such Manager and Village Clerk, they signed and delivered the said instrument and caused the corporate seal of said municipal corporation to be affixed thereto, pursuant to authority given by the Village Board of said municipal corporation, as their free and voluntary act, and as the free and voluntary act and deed of said municipal corporation, for the uses and purposes therein set forth.

GIVEN under my hand and official seal, this _____ day of _____, 20__.

Commission expires _____, _____
Notary Public

STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that the above-named _____ and _____, personally known to me to be the same persons whose name are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed and delivered the said instrument as their own free and voluntary act for the uses and purposes therein set forth.

GIVEN under my hand and official seal, this _____ day of _____, 20__.

Commission expires _____, _____
Notary Public

Attachment 7

Inlet Control Estimates

(calculations are based on static conditions)

Typical Block (Paved Area)			
Width	Length	Area (SF)	AV Curb Height
15	600	18000	0.33 (4 inches)
b	l		h

Street Storage Capacity (assume centerline equals curb height)

$$1/2 \times b \times h \times 2 \times l = 2970 \text{ CF / Block}$$

Storm Intensity for 1 Hour	Inches	100 % Restricted		% Street Impacted
		Volume (CF)	Volume (Gal)	
2 year	1.43	2145	16046	72%
5 year	1.79	2685	20085	90%
10 year	2.1	3150	23564	106%
25 year	2.59	3885	29062	131%
50 year	3.04	4560	34111	154%
100 year	3.56	5340	39946	180%

Sewer Main Capacity for Typical Residential Block

Sewer Size (in)	Pipe Area	Sewer Capacity	Sewer + Street	2 year	5 year	10 year	25 year	50 year	100 year
12	0.79	471	3441	2145	2685	3150	3885	4560	5340
15	1.23	736	3706	2145	2685	3150	3885	4560	5340
18	1.77	1060	4030	2145	2685	3150	3885	4560	5340

Total Impervious Areas on a Typical Block

Overall Area	150ft + 66 ft + 150ft x 600ft =	219600 SF / Block	% of Block	CF @ 2 Yr	% Street + Sewer Impacted w/ 12 in Sewer
Street	30 feet wide	18000	8%	2145	62%
Roof Tops	(30 per block) 25 x 60	45000	20%	5363	156%
Public Sidewalks	5 feet wide	6000	3%	715	21%
Private Sidewalks	3 feet wide	16920	8%	2016	59%
Garages	20 x 20	12000	5%	1430	42%
Total		97920	45%	11669	339%