



August 4, 2020

TO: Public Works and Environmental Concerns Committee

FROM: Carl Goldsmith, Director of Public Works *g*

SUBJECT: Request for Policy Deviation – Backyard Drainage Grant

The Village of Lombard created the Backyard Drainage Grant program with the intent to eliminate flood-prone backyards through cooperative efforts by the Village of Lombard and effected residents. The program is created, and exists, through a Village Policy (4.D.). The program is jointly administered by the Public Works Department and the Community Development Department. The program is funded through the Water and Sewer Capital Fund at a level of \$24,000 in 2020.

Like all grant programs created by a Village Board Policy, the Backyard Drainage Grant program has established eligibility requirements and procedures that assist staff in the administration of the program. A copy of Village Board Policy 4.D. is attached for your consideration and review. A summary of the criteria can be found below:

- The program requires that two or more contiguous properties are directly affected by backyard flooding and experience standing water for more than 72 hours following a storm event.
- Eligible costs may include surveying, engineering, permits, and construction work and restoration.
- Drainage systems must include an appropriate restrictor.
- After passage of final inspections, the Village will reimburse the applicants for 50% of the project costs up to a maximum of \$5,000.
- "Direct" or "indirect" connections to combined and sanitary sewer systems are prohibited by current Village ordinance and will not be eligible for the grant program. (*This is the case with this property*)
- Improvements constructed on private property will be operated and maintained by the property owners.

The Village has received a request from Mr. and Mrs. Angst of 125 E Washington for funding that exceeds the funding limits established by the Village Board Policy. The Village has a long history of engagement with the property owners of 125 E. Washington and adjacent property owners regarding drainage issues. Among the topics that have been discussed in the past are the following:

- The residents' assertion that the Village caused this by allowing for the construction of a single-family house at 138 E. Morningside in 2002.
- The residents' assertion that the drywell installation approved by the Village at 138 E. Morningside does not address the drainage issues and the Village should have forced the builder to drain the water toward Morningside.
- The residents' assertion that the property at 125 E. Washington had historic plantings on the property and the additional standing water on the property has resulted in their demise.
- There have been allegations by several adjacent property owners that suggest that yard work (dirt and mulch) completed by the property owners at 125 E. Washington have contributed to this issue.
- Based upon submitted material from the applicant, the direction of flow has not changed, but the volume has increased as a result of the sump pump discharge from 138 E. Morningside.
- The construction of the home at 138 E. Morningside was done in accordance with all applicable Codes adopted by the Village at the time of construction.
- The Village was under a court order to allow for the construction of the home at 138 E. Morningside

As part of the previous discussions with the property owners at 125 E. Washington, the Village has recommended lower cost option(s) to help with drainage, which were rejected by the property owners, as they claim that these recommendations would not be in character with the historic nature of their property. These options included, but have not been limited to the construction of a 1,750 square foot rain garden on the west side of the property.

The property owners have submitted a proposal to install a comprehensive drainage system on private property that is comprised of the following:

- approximately 530' of 6" PVC main line which would be tied to the combined sewer on Washington Boulevard. approximately 200' of 4" pipe connected to the main line
- approximately 250' of 4" perforated pipe to serve as a French drain with three 12" catch basins tied in to the 6" main line
- regrade significant portions of the yard
- installation of sod and restoration of plantings in the disturbed areas
- the private drainage system would discharge fifteen (15) feet north of the Washington Boulevard ROW and flow overland into the sewer located on Washington Boulevard.

The property owners, Tim and Denise Angst have submitted a request for a deviation from the guidelines established by the Backyard Drainage Grant Policy. Based upon the submitted material, the residents are requesting that the Village grant a waiver from the requirements of the Backyard Drainage Grant Program. The requested deviations are as follows:

- A waiver from the requirement that the grant provide a benefit to two or more contiguous properties per Section II.A.
- A variation from Section II.F., which establishes the maximum amount of reimbursement at \$5,000 per project. The resident is seeking a 50% reimbursement for the estimated \$23,461 project for a total reimbursement of \$11,730.50.

The residents have submitted material outlining their assertions and observations relative to the standing water on the property at 125 E. Washington. Staff has reviewed the submitted material from the property owner/applicant and have indicated that the project would be approved for a building permit through the Community Development Department. The approval would be irrespective of the funding through the Backyard Drainage Grant Program.

The Village established the Backyard Drainage Grant Program in December 1999. Since the establishment of the program, there have been seventy-one (71) grant applications funded by the Village in the amount of \$229,769.57. In each case, there were two or more properties that benefited and in all but one case, the maximum reimbursement was capped at \$5,000 per the Village Board Policy. The only deviation granted to the Village Board Policy amount was for the 100 blocks of S. Chase and S. Highland, which provided stormwater relief for an entire neighborhood.

Given the fact that the work will focus on improvements primarily benefiting a single property and that the cost estimate for the work would account for ½ of the Village's annual budget for the Backyard Drainage Grant Program, staff would recommend that the request for a deviation to the Village Board Policy be denied by the Public Works and Environmental Concerns Committee. The Village has consistently applied the standards established by the Village Board Policy and the requested action could set a precedent that would undermine the goals and objectives of the Village Board Policy.

This matter is being presented to the Committee for their review and recommendation for a deviation to the Village Board Policy. The Committee is not being asked to review or comment on the proposed drainage improvement itself, but rather opine on whether the drainage plan warrants a deviation from the Village Board Policy. The deviation to the Village Board Policy that was granted to the Chase/Highland residents provided for a maximum reimbursement amount of \$15,000 to benefit twelve (12) properties directly. In that situation, multiple properties were incurring damage to structures.

Thank you for your time and consideration of the requested deviation to the Village Board Policy. This matter will be placed on the agenda for the August 11, 2020 Public Works and Environmental Concerns Committee for consideration under New Business. Should you have any questions, please contact me.

Village Board Policy 4.D.



VILLAGE OF LOMBARD

VILLAGE BOARD POLICY MEMORANDUM

**Subject: Backyard Drainage
Program**

**Section: 4.D.
Dept.: PW/CD
Date: January 20, 2000
Updated: November 18, 2010**

I. Purpose

The purpose of this program is to eliminate flood-prone backyards through cooperative efforts by the Village of Lombard and effected residents.

II. Procedures/Guidelines

A. Interested homeowners who can demonstrate that two or more contiguous properties are directly affected by backyard flooding can apply for a grant to provide financial assistance to install a backyard drainage system. "Directly effected" means that the property is subject to standing water for more than 72 hours.

B. Eligible costs may include surveying, engineering, permits, and construction work including connection to public storm sewer and street restoration.

C. Homeowner groups initiate projects and perform surveying and prepare engineering plans by a Professional Engineer. Plans are submitted to Community Development Department for approval.

D. Approved plans are eligible for a grant. Grant applications are submitted to Public Works along with approved plans, cost estimates or bids. Public Works shall evaluate the reasonableness and appropriateness of the grant application. Costs associated with preparing unapproved plans are not eligible for grant funds.

E. Drainage systems must include an appropriate restrictor.

F. Upon successful completion of the work and final inspection, the Village will reimburse the homeowner group for 50% of the project costs up to a maximum of \$5,000.

G. The annual Village contribution to this program will be determined in the Capital Improvement Program.

H. "Direct" or "indirect" connections to combined and sanitary sewer systems are prohibited by current Village ordinance and will not be considered. "Indirect" connections enter a storm sewer that discharges to a combined sewer (recombining).

I. Proposed backyard pumping systems discharging to combined sewer areas that comply with current Village ordinance 50.027 (D) are also eligible for this program (Exhibit "A" attached).

J. Improvements constructed on private property will be operated and maintained by the owners, not the Village of Lombard.

K. The effective date of this policy is December 1, 1999.

III. Legislation/Documentation

A. Minutes of January 11, 2000 Public Works Committee meeting.

B. Minutes of January 20, 2000 Board of Trustees meeting

EXHIBIT "A"

§ 50.027 SUMP PUMP, DOWNSPOUT AND OTHER STORMWATER DISCHARGES

(A) For all habitable structures and business structures constructed after January 1, 1986, all building subsoil drain sump pump discharge pipes shall be connected to the storm sewer system wherever there is a storm sewer reasonably available for such connection as determined by the Director of Public Works.

(B) For all habitable structures and business structures constructed after September 1, 1996, if storm sewers are not reasonably available, all subsoil drain sump discharge pipes shall discharge on a grassed area at any point within fifteen (15) feet of the building structure, away from adjacent properties, and in a manner so as to not cause a nuisance in the public right-of-way, or at the discretion of the Director of Community Development.

(C) Notwithstanding the requirements of 50.26(A) and (B), for all habitable structures and business structures, all downspouts shall be directed away from adjacent properties. Downspouts discharging toward a combined sewer shall discharge onto splash blocks into a grassed area at any point within fifteen (15) feet of the building structure or at the discretion of the Director of Community Development.

(D) Notwithstanding the requirements of 50.026, any person, but only one person from the area tributary to the common depressional storage area, may pump stormwater run-off from a common depressional storage area on private property toward a combined sewer subject to the following restrictions: (1) pumping may not commence or continue during a rainfall event; (2) pumping may not commence until seventy-two (72) hours after a rainfall event or until the Lombard Combined Sewage Treatment Facility has stopped discharging effluent to the East Branch of the DuPage River, whichever is longer; (3) the discharge point must be within fifteen (15) feet of the building structure, and in a manner so as to not cause a nuisance in the public right-of-way, or at the discretion of the Director of Public Works; and (4) no pumping rate can exceed 250 gallons per minute. Notwithstanding the foregoing, pumping as described in this subsection (D) will be prohibited if combined sewer surcharges are induced from such pumping. In addition, the Village of Lombard reserves the right to further restrict the approved pumping rate in individual situations where it has been determined that the maximum rate will result in surcharging, sewer overflows, adverse health or environmental problems.

('70 Code, § 13.08.075) (Ord. 2797, passed 11-14-85, Ord. 4190, passed 7/18/96)

Backyard Drainage Grant Application

BACKYARD DRAINAGE GRANT PROGRAM
VILLAGE OF LOMBARD, ILLINOIS Board of Trustees POLICY MEMORANDUM 00-1
Application Form (Last revised 3/2/00)

Part 1 – PROJECT SPONSORS

Date: 7/23/20

By signing, the sponsor and co-sponsors certify, under penalty of law for misrepresentation, that the attached documentation demonstrates that their property is subjected to at least 72 hours of standing water.

Sponsor: Denise Angst Phone: (day) 630/399-1354 (evening) 630/399-1354

Address: 125 E. Washington Lombard, IL 60148 Signature: Denise Angst

Co-sponsors agree that sponsor is duly authorized to communicate with the Village on their behalf.

Co-Sponsor: _____ Street Address: _____

Signature: _____

Co-Sponsor: _____ Street Address: _____

Signature: _____

Co-Sponsor: _____ Street Address: _____

Signature: _____

Co-Sponsor: _____ Street Address: _____

Signature: _____

Co-Sponsor: _____ Street Address: _____

Signature: _____

Part 2 – EVIDENCE OF STANDING WATER FOR 72 HOURS AFFECTING 2 OR MORE PROPERTIES

How often does the property collect water that remains for at least 72 hours? Every RAIN

How many properties are effected? 5+ How many years has it flooded? Since large house 138

Please attach photos, statements, inspections, or any other evidence that this property has experienced backyard drainage problems resulting in standing water for 72 hours affecting at least 2 properties. The Village of Lombard may require that a property inspection be performed prior to grant approval.

The included information is true to the best of our knowledge: Denise Angst
Signature of Sponsor

Part 3 – PLAN APPROVAL Attach approved plan from Community Development Department.

Signature of Community Development Official _____

Print Name _____

Date 7/23/20

Part 4 – COST ESTIMATE Attach contractor's proposal. We suggest at least two (2) estimates be obtained. The cost estimate for the proposed work is \$ 23,461.00 Estimate #2 \$27,000

Part 5 – GRANT APPROVAL Approved for 50% of system costs not to exceed \$5,000.

Signature of Public Works Official _____

Print Name _____

Date 7/23/20

Part 6 – PERMITS For pumping systems: Plumbing permit and electrical permit has been issued by Bureau of Inspectional Services and fees paid. Attach documentation.

Bureau of Inspectional Services (BIS) _____

Print Name _____

Date 7/23/20

Part 7 – CERTIFICATION OF FINAL INSPECTION

Bureau of Inspectional Services (BIS) _____

Print Name _____

Date of Final Inspection 7/23/20

Community Development Department _____

Print Name _____

Date of Final Inspection 7/23/20

Part 8 – PROJECT COMPLETE; REQUEST FOR REIMBURSEMENT Drainage work is finished to our complete satisfaction; contractors are paid in-full; and we are requesting reimbursement for the approved grant amount. Final project cost was \$ _____. Attach documentation & complete reverse side.

Signature of Sponsor _____

Print Name _____

Date 7/23/20

Part 9 – AUTHORIZATION FOR REIMBURSEMENT Approved for reimbursement in the amount of \$ _____ for backyard drainage work performed in accordance with Board of Trustees Policy Memorandum 00-1.

Signature of Public Works Official _____

Print Name _____

Date 7/23/20

REIMBURSEMENT AGREEMENT

Date: 7/23/10

To: Public Works Department

From: Backyard Drainage Project Sponsor and Co-sponsors

Subject: Agreed reimbursement amounts

We agree to the following distribution of reimbursement amounts for project costs:

Please print CLEARLY:

Sponsor	<u>DENISE ANGST</u>	\$ <u>5,000</u>	or <u>100</u> %	Signature <u><i>Denise Angst</i></u>
Address	<u>125 E. Washington</u> Lombard, IL 60148			

Co-Sponsor	\$	or	%	Signature
Address Lombard, IL 60148				
Co-Sponsor	\$	or	%	Signature
Address Lombard, IL 60148				
Co-Sponsor	\$	or	%	Signature
Address Lombard, IL 60148				
Co-Sponsor	\$	or	%	Signature
Address Lombard, IL 60148				
Co-Sponsor	\$	or	%	Signature
Address Lombard, IL 60148				

REIMBURSEMENT PAYMENT APPROVAL

For Village staff use:

Acct# 7901.756420 Proj# 5517

Approved: _____ Director of Public Works	_____/_____/_____ Date
Approved: _____ Finance Director	_____/_____/_____ Date
Approved: _____ Village Manager	_____/_____/_____ Date



Creations

landscaping, Ltd.

July 3, 2020

Tim and Denise Angst
125 Washington Blvd.
Lombard, IL. 60148

DRAINAGE IMPROVEMENTS AS DISCUSSED PER PLAN & PROPOSAL SUPPLIED:

- 1). Supply Labor & Materials to Trench and Install Aprx. (530') of 6" Solid P.V.C. Drain Pipe Main Line, with fittings and Catch Basins (per Plan) from Rear East Path to front North Washington Blvd. parkway.

Install a combination of (200') 4" Perforated Drain Pipe with Filter Sock set in a 'P' Gravel Trench, and aprx. (235') 4" Solid P.V.C. Pipe with Catch Basins & Fittings connected to the 6" Main Line Pipe (per Plan).

Regrade areas near and behind Garage to help improve poor drainage flow to the North. Supply & Install New Sod along rear So. and East Bed edges to reduce standing water. Remove excess Soil and Debris generated from Trenching, and Haul Away. Restore All disrupted Lawn, Bed & Plantings to Original Condition.

Total Labor, Removal & Materials: \$20,591.00

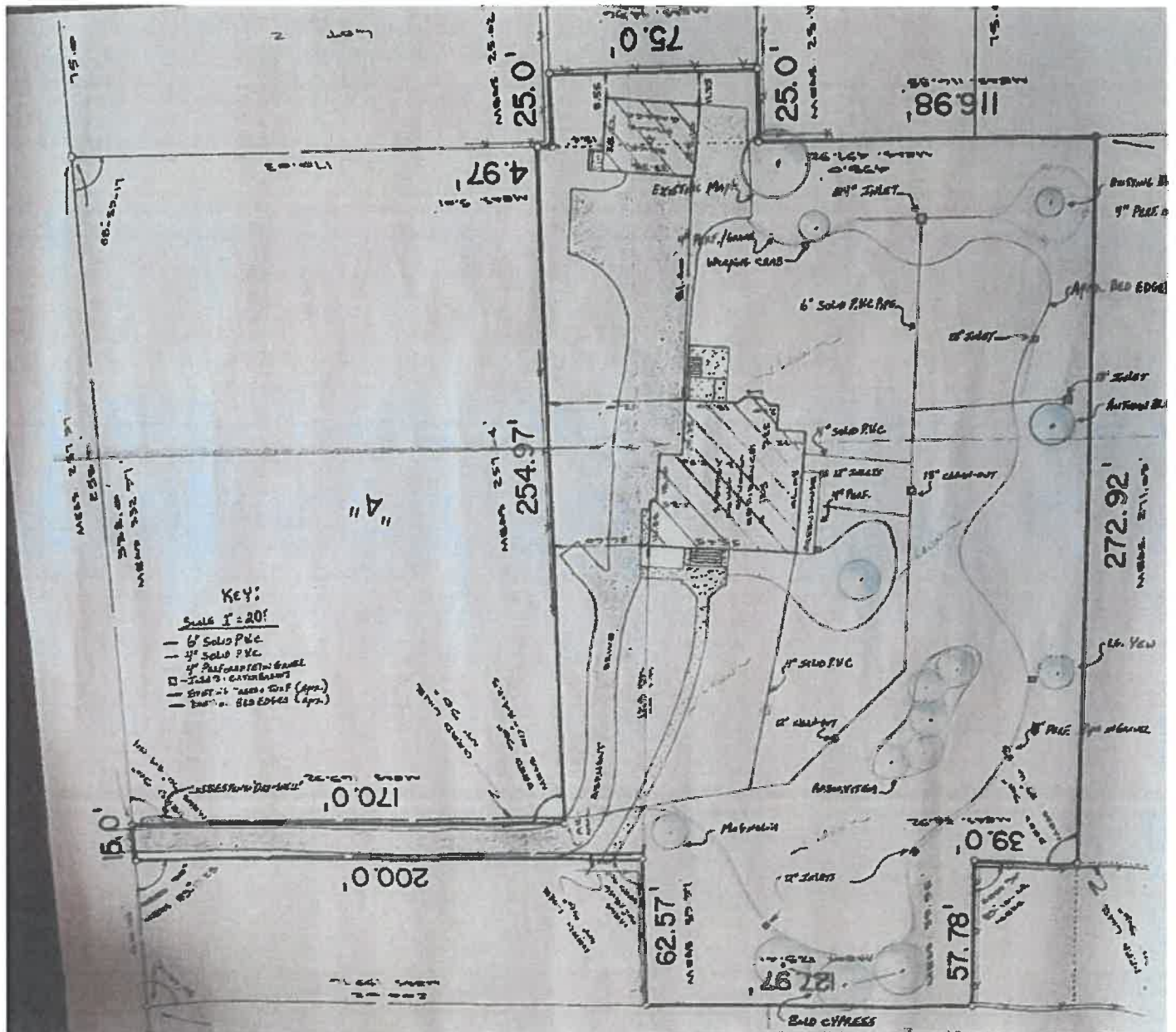
- 2). SOUTH & WEST BED/LAWN EDGE DRAINAGE IMPROVEMENTS:

Supply Labor to Trench along Front So. & East Bed/Lawn edge to install aprx. (250') 4" Perforated Drain Pipe with Filter Sock set in 'P' Gravel to act as a "French Drain" to accept soggy and standing water areas. Add (3) 12" Catch Basins, and tie into 6" Main Line Pipe. Haul away excess Soil & Debris, and restore area to Original Condition.

Total Labor, Removal & Materials: \$2870.00

Combined Total: \$23,461.00

Angst Residence (125 E. Washington Blvd.) – Drainage Plan (7 26 20)



Tim Angst

GRANT & Power Estimate

On Thu, Jun 4, 2020 at 8:33 PM Shawn Pawlak <ShawnPawlak@grantandpower.com> wrote:
Hi Denise,

This is still a bit crude but here is the data:

So looking at these numbers on this drone pic:

- 1 is the low spot
- 2 is about 8" higher than 1
- 3 is 3" higher than 1
- 4 is the same height as 1
- 5 is 12" lower than 1
- 6 is 24" lower than 1

So as long as we get the water to point five it will RUSH out to the street. Like you will have people coming to see old faithful of Washington Blvd. The gardens on the south property line are basically level with the concrete walkway along the driveway....so the drainage from that pipe would need to meet the other drainage pipes at point 6.

The second picture shows a rough layout of the path.

So...the nitty gritty. You need about 850' of 6" pipe. And about 100' of 4" pipe. With 20 +/- catch basins as inlets/clean outs along the route.

That would put you at about \$27k.

Hopefully this helps.

Shawn

Property Owner Background Material

August 1, 2020

Public Works and Environmental Concerns Committee
Village of Lombard
255 E Wilson Ave.
Lombard, IL 60148

Dear Committee Members,

We moved to Lombard in 1984 and have been residents since that time. We have had the privilege of living in our wonderful village for 36 years and have been living in our current home at 125 E. Washington Boulevard for 28 of those years. We have enjoyed raising our 3 children in Lombard, have sent them to our public schools, and have been proud members of our community.

We bought our historic home in 1992 and over the years have done a great deal to restore both the interior and exterior of the property. The home was built in ~1914 and was used as a peony farm. However, when we bought the home, the property had been neglected for many years and aside from large trees and shrubs and some remaining peonies, most of the plants consisted of weeds and invasive species. We have spent the last 28 years restoring the property with much invested in terms of time and money.

After the large home was built at 138 Morningside we began to notice significantly more water flow onto our property, both in terms of water volume and frequency. With young children at the time and busy careers, we initially attributed the change to seasonal variation. However, as the water flow grew and our soil at the east, southeast and south sides of our property remained continually saturated we began to see the loss of many established trees and shrubs. We also noted that the sump pump at the 138 Morningside home ran continuously, recirculating the water (despite the presence of a dry well), and contributing to what appeared to be a large underground watershed. We consulted the nursery that we have used for all of our time in Lombard and an engineer with water issues expertise, who have witnessed these changes and have confirmed the catalyst for this change as the home at 138 Morningside. We have also seen the impact on other neighbors to west of this home experience similar increases in water flow.

We have met with Village representatives for many years and met together this year with the owners of 138 Morningside. We were hopeful when the Village provided their recommendation on what could be done by those owners to divert water flow to the street. However, given the recommendations were not requirements those neighbors have elected not to take any action. In the end, we are faced with living with continuing property damages and serving as the retention reservoir for the block, or moving forward with a solution ourselves.

We have asked to come to this Committee to present our case and to request that the Village grant additional funding beyond the maximum of the Backyard Drainage Program to remedy this situation, that will benefit not only our home but other surrounding properties. We have had two estimates to install a drainage system that will carry water over 600 feet to Washington Blvd. Enclosed in this packet are:

- Letters of attestation and support
- Pictures depicting the changes in the property and resulting damages
- Historical elevation maps and surrounding homes
- Survey for 138 Morningside
- Drainage plan and estimates

Thank you in advance for your consideration of our request and for the opportunity to present to the Committee.

Sincerely,


Denise and Tim Angst

Angst Drainage Request
Letters of attestation and support



MOLLY O'TOOLE
engineers + consultants & ASSOCIATES, LTD.

450 S. Stewart Ave Lombard, IL 60148 • phone/fax: 630.889.9774 • www.mollyotoole.com

August 3, 2020

Public Works and Environmental Concerns Committee
Village of Lombard
255 E Wilson Ave.
Lombard, IL 60148

Dear Committee Members,

I am writing in regard to the flooding and drainage issues at the Angst property at 125 E. Washington Blvd. and the surrounding properties. My company specialized in flood mitigation and watershed management and, as a neighbor, Denise and Tim Angst asked for my opinion regarding their flood issues.

Single lot development (or redevelopment) in an established neighborhood can yield some negative impacts on neighboring properties and on public infrastructure. The cumulative impact of new impervious areas, loss of natural flood storage, blocked flow paths and subsurface issues can be significant. We all understand the Village ordinances and building codes work do address many of the impacts. For example, most often the increase in runoff is directed towards the street. Other impacts, such as changes in grading, are more typical impacts accepted by neighboring properties. The impacts to Angst property as a result of the home that was built on 138 E. Morningside (previously a vacant lot), and the adjacent properties at 136 and 130 E. Morningside, are beyond what is typically experienced, and worth your full consideration.

The front portions of the homes along the east 100 block of Morningside drain towards the street. The backyards drain towards the Angst property. When looking at topographic maps of the area, the Angst property has always provided a flow path for the Morningside backyards. However, I have seen the flow of water to the Angst property during typical and moderate rainstorms, where we generally don't see much water in yards. Heavy rainstorms cause problems within the interior of the block, as can be understandable, but notable is that even in the driest part of summer, the soil at the southeast side of Angst's property can be saturated.

The increase in volume is a result of the 138 E. Morningside home's impervious areas (the portion that runs off to the backyard), but also the excessive outflow from the home's sump pump. The sump pump needs to run almost constantly – recirculating water continually, irrespective of the season. The sump pump at 138 E. Morningside pumps to an ineffective dry well or French drain near the Angst property. This leads to the accumulation of standing water on the Angst's property and also 136 and 130 E. Morningside. The flow path through the Angst's property is very flat and the runoff can't "flow" overland.

To highlight, it is both the volume and the frequency of water being directed toward the Angst's in extraordinary. I have long believed that the neighborhood between Main Street and Grace Street, Maple Avenue to Madison Avenue, must have historic subsurface drain tiles. It helps explain why some homes in our neighborhood do not have sump pumps (and not basement water issues) and other homes have sump pumps and basement flooding issues (all of similar age). New homes in developed neighborhoods always need to have sump pumps because rainwater (surface and infiltrated in the subsurface) will always take the easiest path, and newly dug, then not fully compacted basement foundations make that easy

path.) This can be a benefit to neighboring homes (less seepage in their direction), in the Angst's case it is not. Again, the discharges from 138 E. Morningside are significant. I believe that an old drain tile was disrupted during the construction of 138 E. Morningside, and rather than flow away, the drain tile flows are having to be addressed by the sump pump and left to be stored in the Angsts' yard. Before the lot was developed, the infiltrated rainwater was either stored 138 E. Morning side or the tile may have been directed towards Morningside. This may explain the excessive water impacted these properties today.

The outcome of the 138 E. Morningside development has been that the Angst property has been required to store significantly more water at a considerable expense to them (e.g., death of many large trees, shrubs) and have been increasingly dealing with this situation since 2003. The additional runoff or sump pump discharge needing to be stored should be temporary. For this situation, it is ongoing and causing issues between neighbors that also take their toll.

I am also a proud resident of Lombard and hope that the Village will do the right thing to remedy this situation and protect Angst's historic property within our village. I strongly support the Angst's case for increased financial assistance from the Village so that an effective drainage solution can be installed to benefit not only their property, but other neighboring properties. I would also urge the Village to enforce future solutions on new building adjacent to this property so that any additional water load is directed to the street and not towards this uniquely situated property.

If you have any questions, or if you are in need of any additional information, please don't hesitate to let me know. Thank you, very much, for your time and your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'Molly J. O'Toole', written in a cursive style.

Molly J. O'Toole, P.E., D.WRE, CFM
President



21W020Army Trail Rd.
Addison, IL 60101
630-627-6261

July 30, 2020

Public Works and Environmental Concerns Committee
Village of Lombard
255 E Wilson Ave.
Lombard, IL 60148

Dear Committee Members,

The Schwarz Nursery has been planting large trees and shrubs on the Angst property since they moved in in 1992. And I have personally walked the property many times over the last 28 years. I have witnessed the negative consequences that have resulted as more and more water has come to their property since the home at 138 Morningside was built. They have had many large shrubs and trees die because of their inability to survive in a soil environment that is continuously damp and exposed to flooding and standing water. Given the historic nature of this unique property, it has been unfortunate to witness the resulting damage from the increased frequency and volume of water flow onto the Angst property. This translates not only to the aesthetic loss of trees and shrubs that have grown successfully for many years, but significant financial losses.

I support the Angst's request to the Village to financially support a drainage solution that will not only benefit their property, but other neighboring properties that are impacted.

Best regards,

Mick Schwarz
President and Co-owner

A handwritten signature in black ink, appearing to read "Mick Schwarz", written in a cursive style.



Angst Drainage Request

**Pictures depicting the changes in the
property and resulting damages**

NOTE: See separate file

Angst Pictures and Chronology of Increasing Water Flow and Associated Damage

Original home – Built ~1914; served as a peony farm for many years



Current view of home – 2020



Angst home and view to vacant lot now occupied by 138 Morningside



Note: 2 homes on either side of vacant lot are higher in elevation. No water issues experienced by Angst home.

Other views of then vacant lot now occupied by 138 Morningside – NO WATER ISSUES



Pictures demonstrating increased water flow – volume and frequency

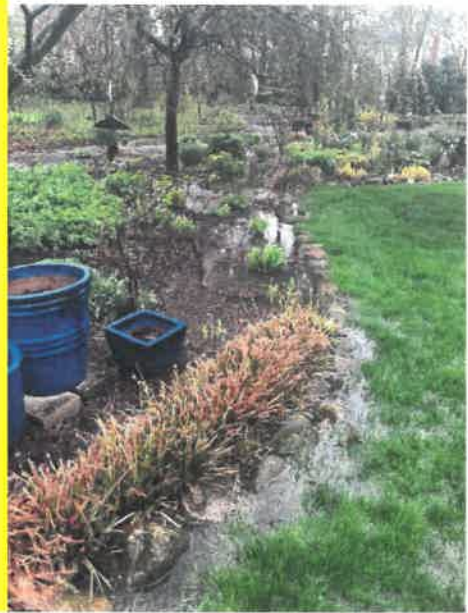


Increasing Water Flow as result of 138 Morningside home – volume and frequency



Increasing Water Flow as result of 138 Morningside home – volume and frequency





Water coming all the way up to house and flooding greenhouse

Backyard of 136 Morningside – near to where drywell is located



Backyard of 138 Morningside – before fence, additional dirt and sod installed



**Hole full of water
with 3 channels dug
to our property**



Backyard of 138 Morningside – after fence, additional dirt and sod installed



Just Some of the Resulting Tree Damage due to continuous water / soil saturation



Red Japanese Maple

25 ft.

Irreplaceable



Just Some of the Resulting Tree Damage due to continuous water / soil saturation



**4 Large Yews
25 ft.
Irreplaceable**



Just Some of the Resulting Tree Damage due to continuous water / soil saturation



2 Tricolor Beech
10 ft.
>\$1000 each with planting



Summer Snowflake Viburnum
18 ft.
Irreplaceable

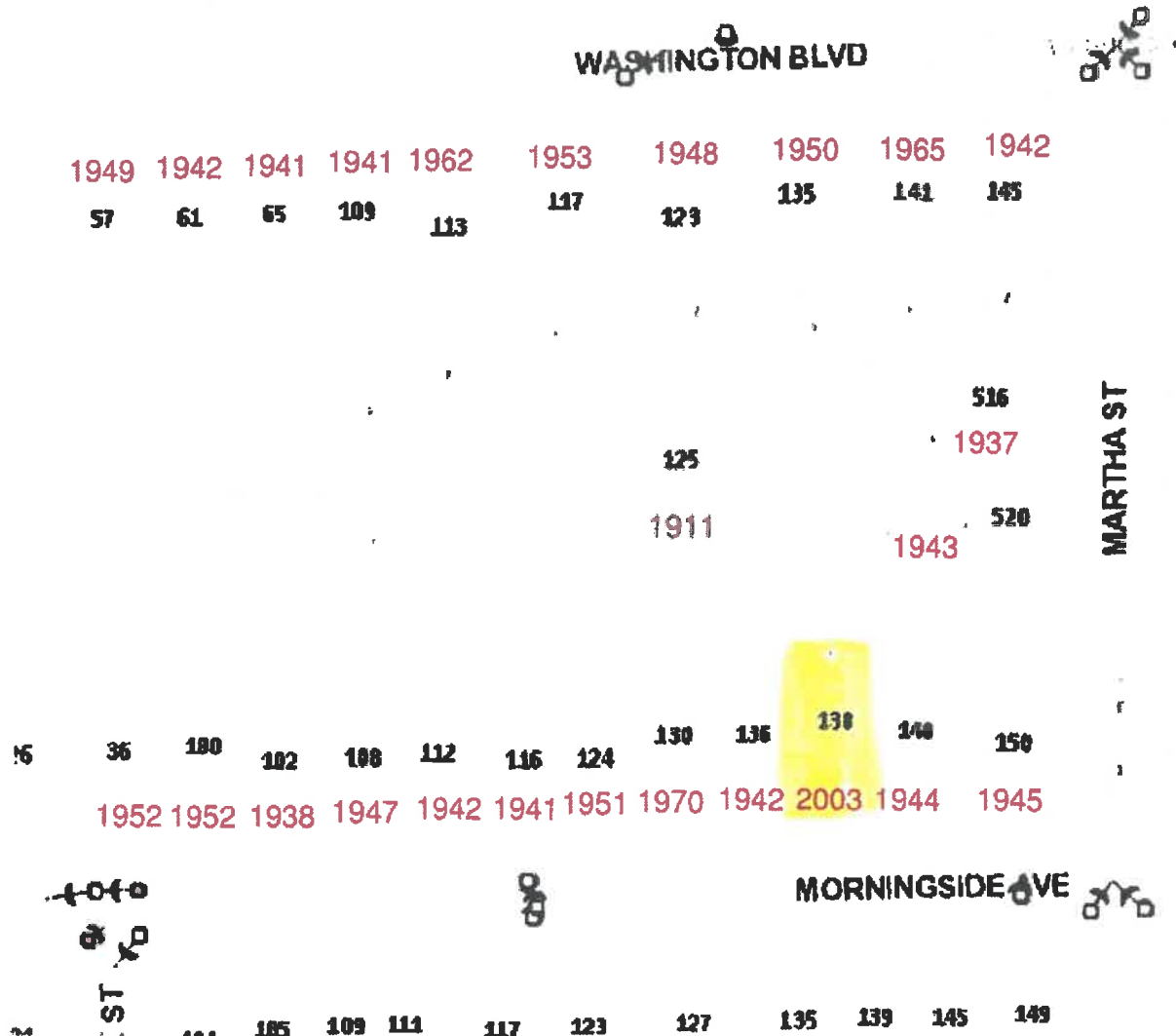
Multiple expensive Perennials that have died as a result of the drainage nuisance. Example of Japanese Forest Grass



**Angst Drainage Request
Surrounding homes and historical
elevation maps**

Lombard Estates

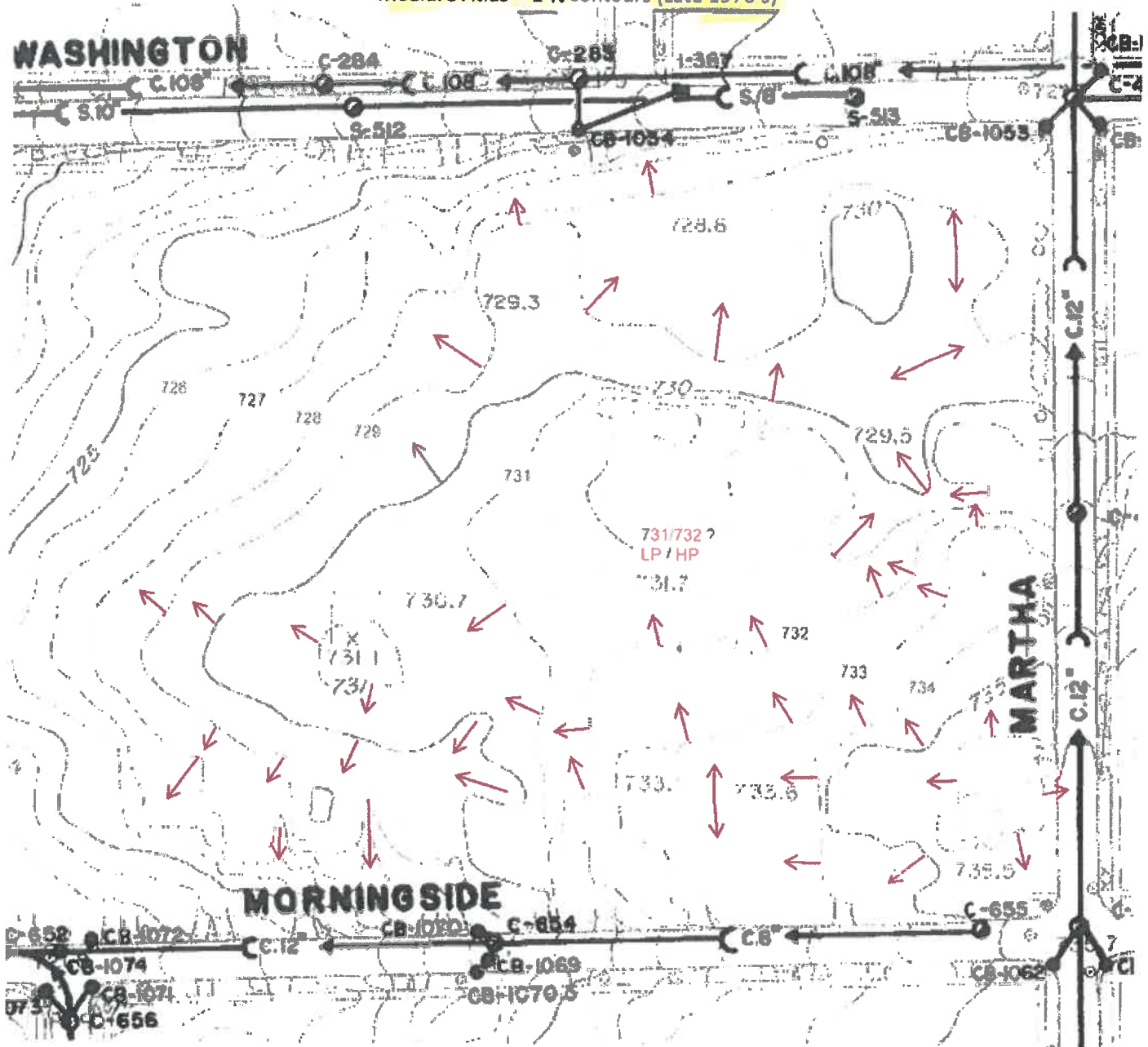
(Years Houses were Built)



Legend

Year House was Built

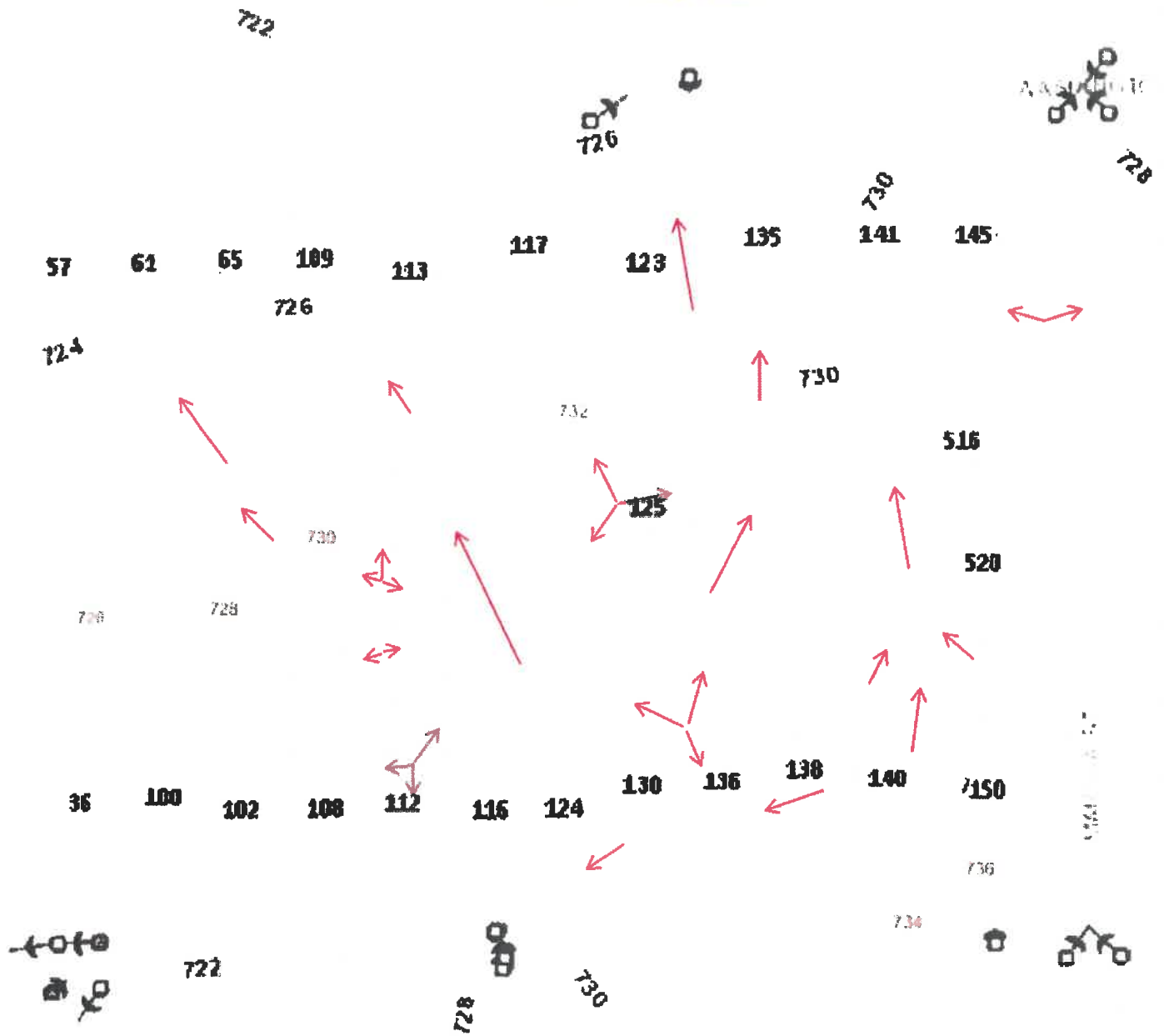
McClure Atlas – 1-ft contours (Late 1970's)



Legend:

→ Drainage Pattern

DuPage County 2-ft contours (1991)

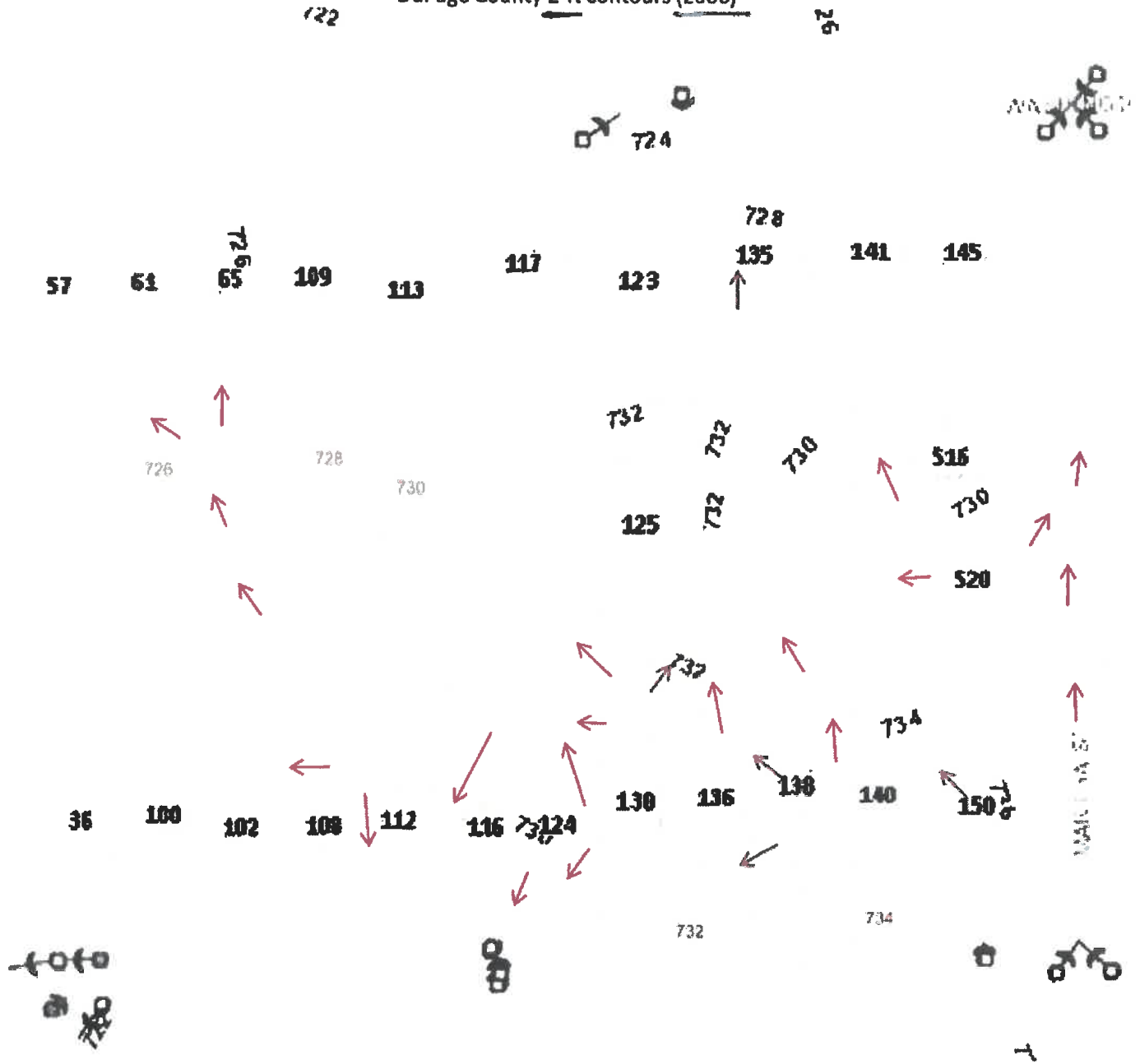


Legend:

→ Drainage Pattern

* Note: home @ 138
morningside
was not
present in 1991

DuPage County 2-ft contours (2006)



Legend:

→ Drainage Pattern

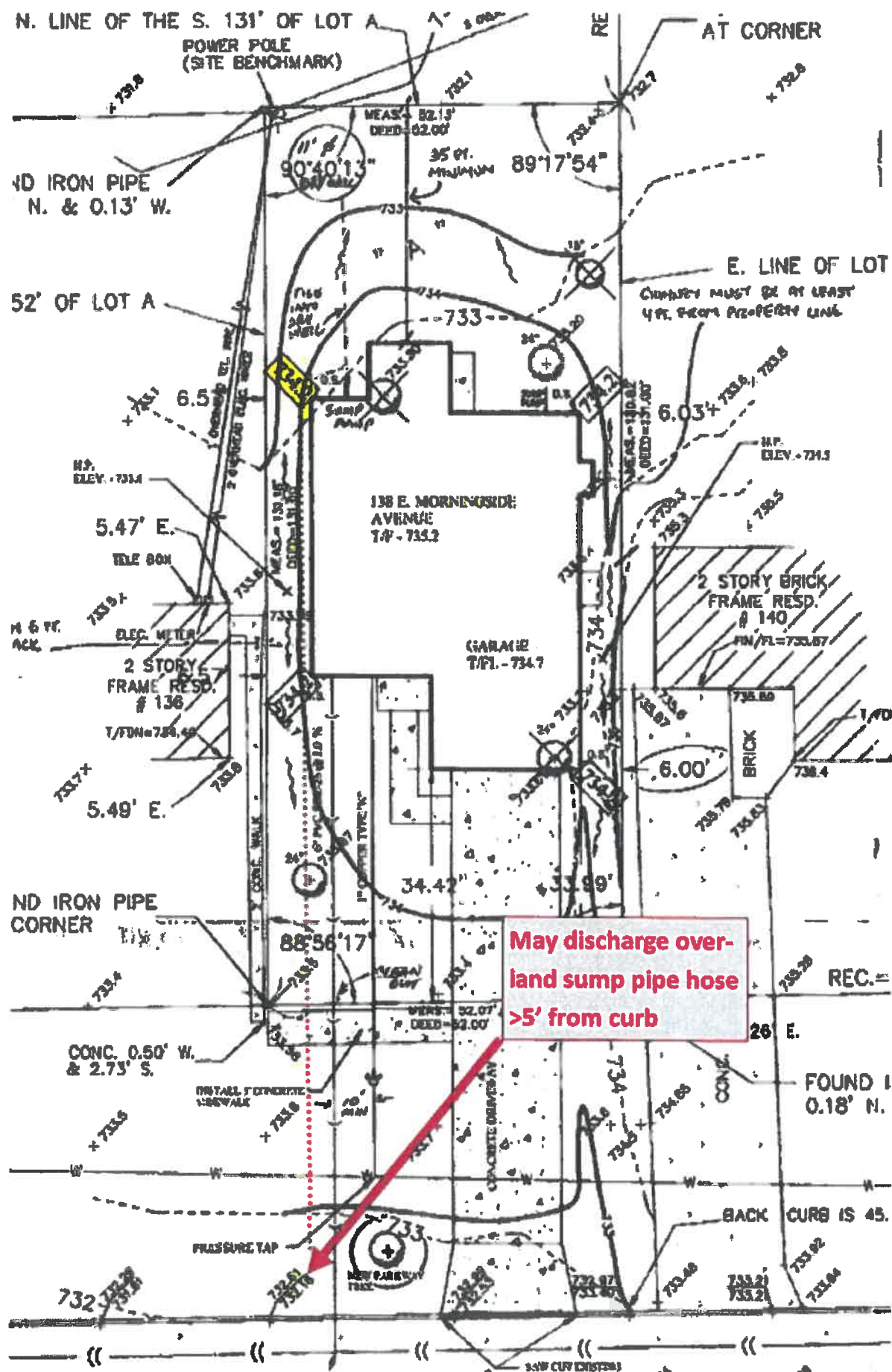
1991 2-ft contours with 1987 aerial photography



2006 2 ft contours with spot elevations & 2006 aerial photography

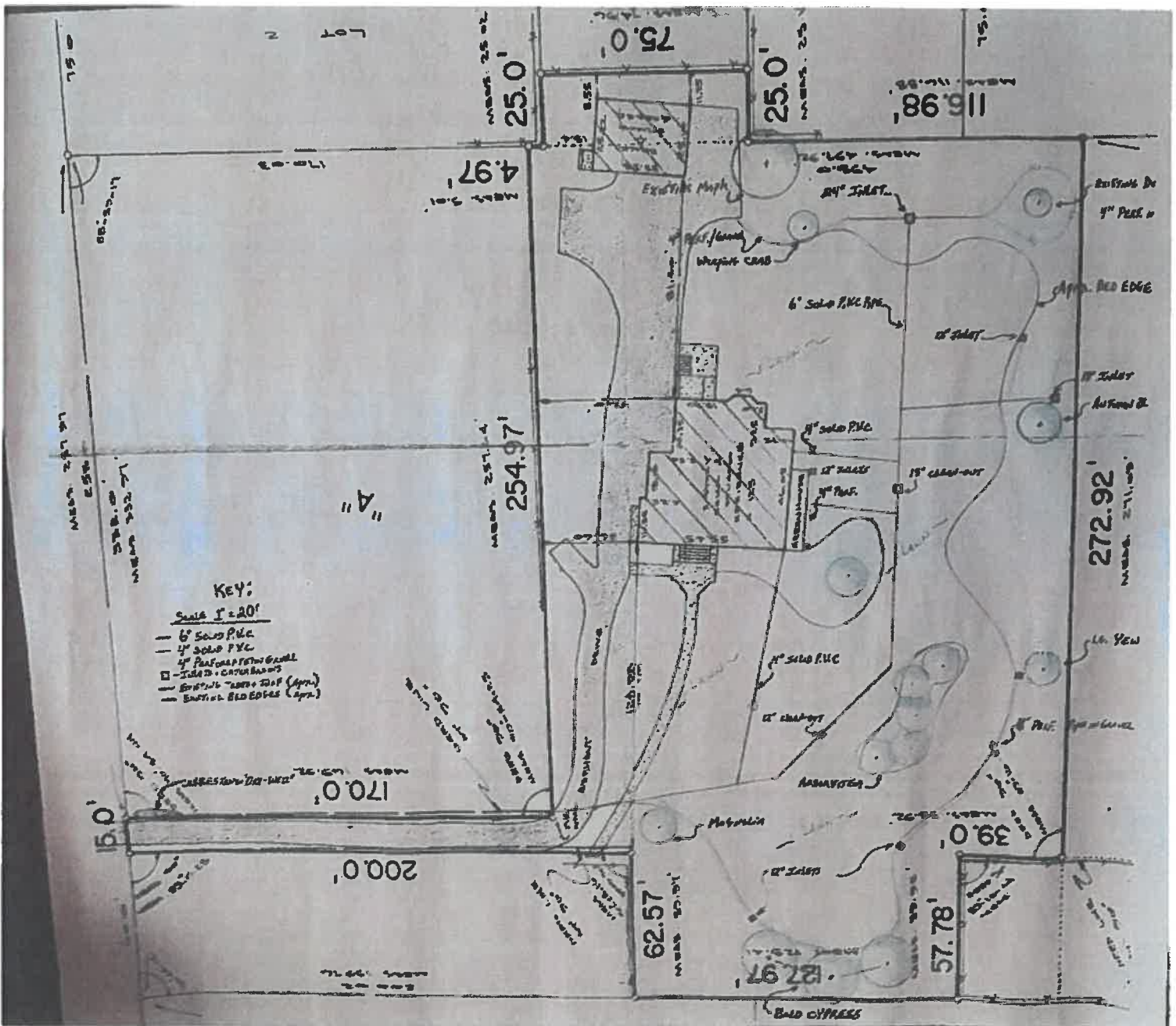


**Angst Drainage Request
Survey for 138 Morningside**



Angst Drainage Request
Drainage plan and estimates

Angst Residence (125 E. Washington Blvd.) – Drainage Plan (7 26 20)





Creations

landscaping, Ltd.

July 3, 2020

Tim and Denise Angst
125 Washington Blvd.
Lombard, IL. 60148

DRAINAGE IMPROVEMENTS AS DISCUSSED PER PLAN & PROPOSAL SUPPLIED:

- 1). Supply Labor & Materials to Trench and Install Aprx. (530') of 6" Solid P.V.C. Drain Pipe Main Line, with fittings and Catch Basins (per Plan) from Rear East Path to front North Washington Blvd. parkway.

Install a combination of (200') 4" Perforated Drain Pipe with Filter Sock set in a 'P' Gravel Trench, and aprx. (235') 4" Solid P.V.C. Pipe with Catch Basins & Fittings connected to the 6" Main Line Pipe (per Plan).

Regrade areas near and behind Garage to help improve poor drainage flow to the North. Supply & Install New Sod along rear So. and East Bed edges to reduce standing water. Remove excess Soil and Debris generated from Trenching, and Haul Away. Restore All disrupted Lawn, Bed & Plantings to Original Condition.

Total Labor, Removal & Materials: \$20,591.00

- 2). SOUTH & WEST BED/LAWN EDGE DRAINAGE IMPROVEMENTS:

Supply Labor to Trench along Front So. & East Bed/Lawn edge to install aprx. (250') 4" Perforated Drain Pipe with Filter Sock set in 'P' Gravel to act as a "French Drain" to accept soggy and standing water areas. Add (3) 12" Catch Basins, and tie into 6" Main Line Pipe. Haul away excess Soil & Debris, and restore area to Original Condition.

Total Labor, Removal & Materials: \$2870.00

Combined Total: \$23,461.00

Tim Angst

GRANT & Power Estimate

On Thu, Jun 4, 2020 at 8:33 PM Shawn Pawlak <ShawnPawlak@grantandpower.com> wrote:
Hi Denise,

This is still a bit crude but here is the data:

So looking at these numbers on this drone pic:

- 1 is the low spot
- 2 is about 8" higher than 1
- 3 is 3" higher than 1
- 4 is the same height as 1
- 5 is 12" lower than 1
- 6 is 24" lower than 1

So as long as we get the water to point five it will RUSH out to the street. Like you will have people coming to see old faithful of Washington Blvd. The gardens on the south property line are basically level with the concrete walkway along the driveway....so the drainage from that pipe would need to meet the other drainage pipes at point 6.

The second picture shows a rough layout of the path.

So...the nitty gritty. You need about 850' of 6" pipe. And about 100' of 4" pipe. With 20 +/- catch basins as inlets/clean outs along the route.

That would put you at about \$27k.

Hopefully this helps.

Shawn