

Sump Pump Program Public Informational Meeting

Date: April 14, 2022 at 5:30pm

City Hall - Council Chambers

Presenter: Bill Angerman, P.E.

whks

engineers + planners + land surveyors

+



Meeting Objectives



Objective One

What is inflow and infiltration?



Objective Two

Why are we doing this program?



Objective Three

Discuss program approach and details



Objective Four

Frequently asked questions

What is I/I?

Inflow and Infiltration



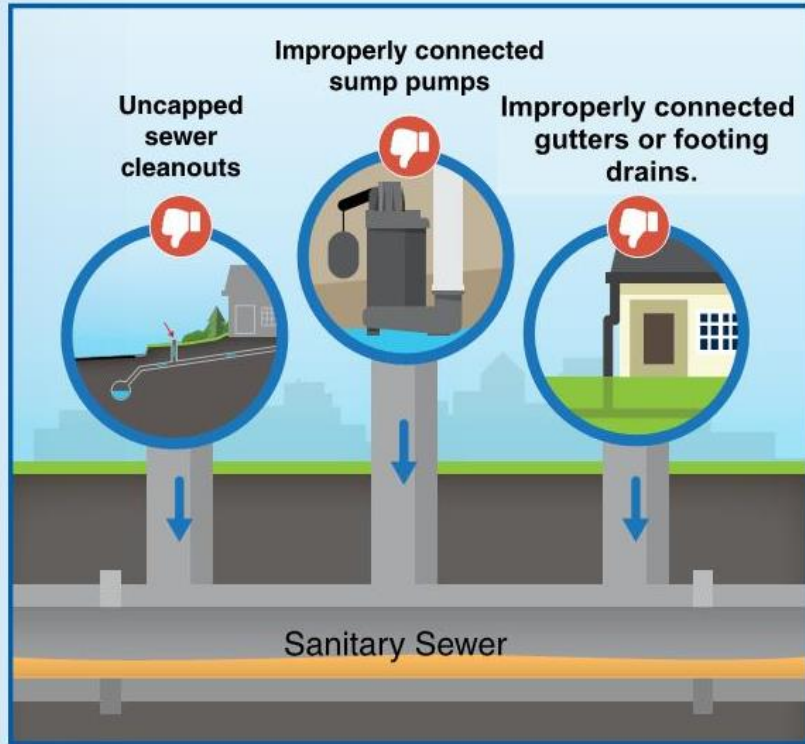
INFLOW

- A** Roof Drain Connection
- B** Sump Pump or Foundation Drain Connection
- C** Deteriorated Manhole
- D** Uncapped or Broken Clean-Out
- E** Storm Cross Connection

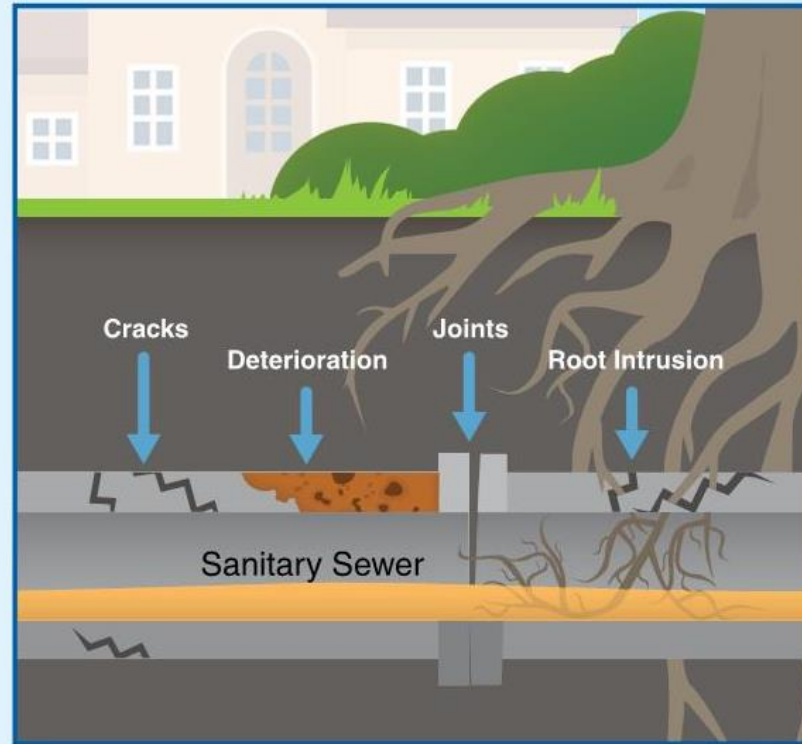
INFILTRATION

- F** Faulty Manhole Cover/Frame
- G** Root Intrusion
- H** Open Joints
- I** Faulty Service Connection
- J** Broken or Cracked Pipe

Some Sources of I/I



Inflow is clear water that quickly enters the wastewater system after rainfall events from sources such as sewer cleanouts, sump pumps, gutters, building foundation drains, and broken maintenance hole covers.



Infiltration is clear water that gradually enters the wastewater system below ground through cracks and openings in sewer service lines and joints, and public sewer mains and deteriorated maintenance holes.

I/I in Austin

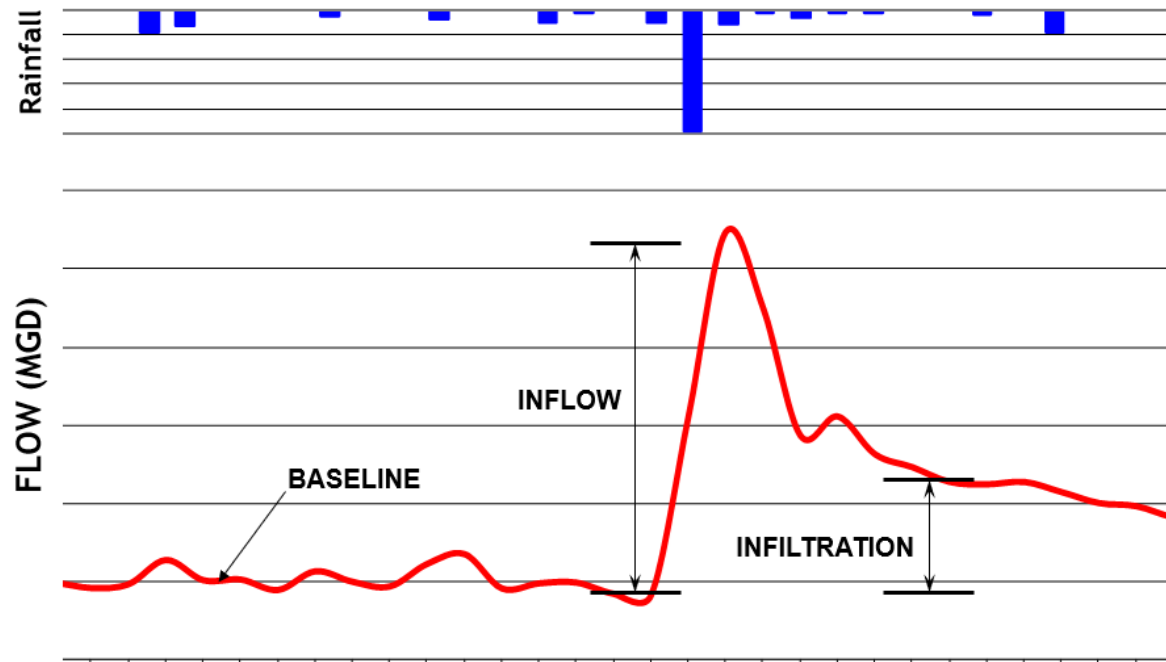
Austin System Description:

Average Dry Weather (ADW) flow (MGD): 2.6

Average Wet Weather (AWW) flow (MGD): 6.3

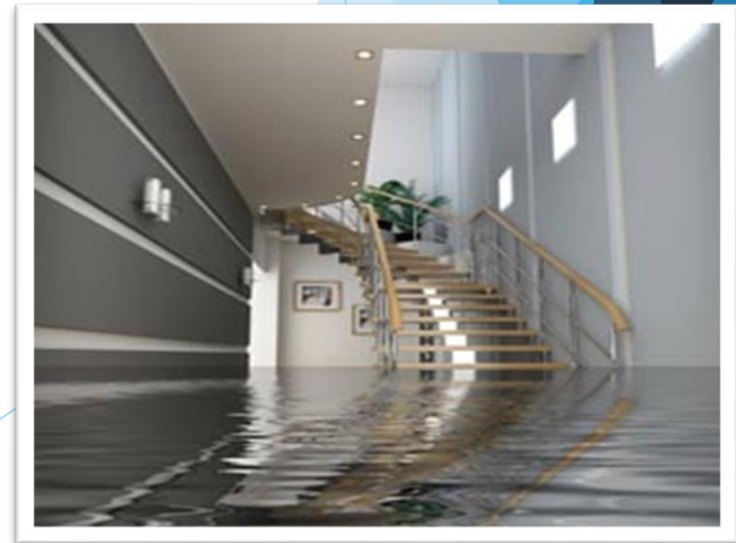
Peak Instantaneous Wet Weather (PIWW) flow (MGD): 19.8

**760%
Average**



Consequences of Excessive I/I

- ▶ Low customer satisfaction
- ▶ Costs greater than needed
- ▶ Potential health risks
- ▶ Property damage
- ▶ Regulatory actions



Effects of I/I on Austin

- ▶ Lift Station Upgrades
- ▶ Sewer Rate Increases
- ▶ Sanitary Sewer Overflows
- ▶ Extra Costs for WWTP Upgrades



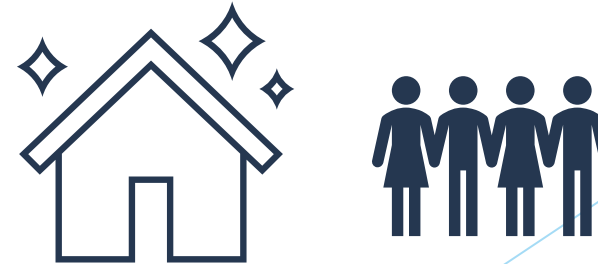
Why are we doing this Program?

- ▶ Sump pump programs are typically the **MOST** cost effective method to reduce I/I in the system.
- ▶ Removing I/I from the sanitary sewer:

- **Saves Money:** Reduces future rate increases

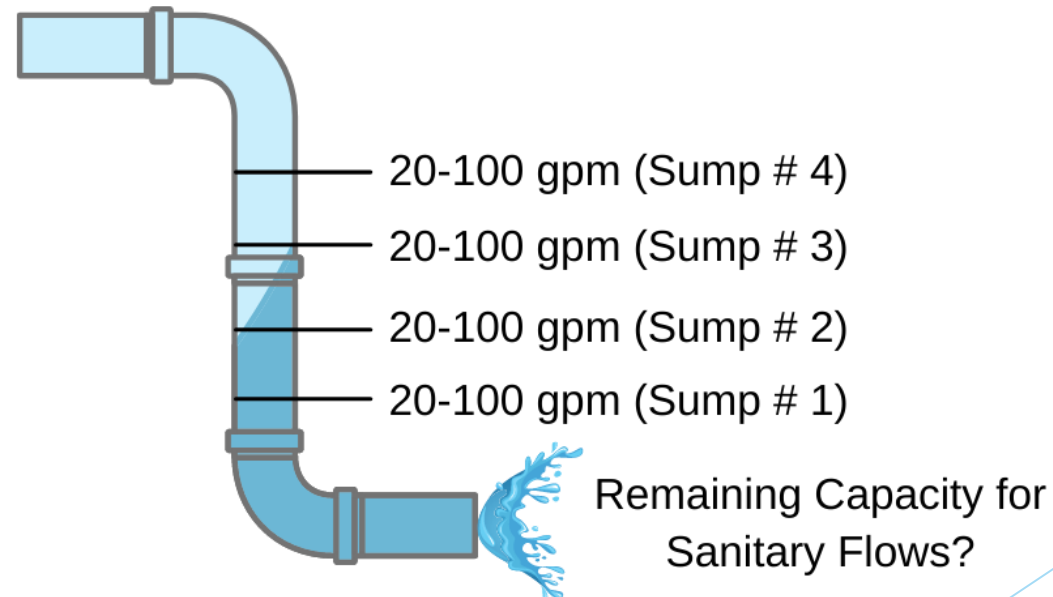


- **It's the Neighborly thing to do:** Reduces potential for backups & property damage



Why a Sump Pump Program?

- ▶ A few sump pumps can make a big difference
 - ▶ Typical sump pump 20-100 gpm a piece
 - ▶ Typical 8" sewer capacity 350 gpm
 - ▶ As few as FOUR pumps can take up the pipe capacity and cause a backup in the neighborhood.



Sump Pump Program Approach

- ▶ Ordinance Modification
- ▶ Public Info
- ▶ Public Meetings
- ▶ Scheduling
- ▶ Inspections



Key Aspects to Ordinance Revision

- ▶ Chapter 3 of Austin Code of Ordinances prohibited clear water connections before Amendment
- ▶ Amended Ordinance allows City to verify compliance
 - ▶ Key Aspects:
 - Sump pumps, beaver drains, footing drains, defective laterals, etc. are prohibited from discharging to sanitary sewer
 - Rigid discharge piping, no valves or flex hose
 - Sump pits must have pumps

Austin, MN Code of Ordinances

CHAPTER 3: MUNICIPAL AND PUBLIC UTILITIES; RULES AND REGULATIONS; RATES AND CHARGES

Key Aspects to Ordinance Revision (Cont.)

- ▶ Key Aspects:
 - City, City's representative, or private plumber inspects
 - 30 days to inspect, 90 days to correct deficiencies
 - City can issue \$100/month surcharge for violations or no inspection

Austin, MN Code of Ordinances

CHAPTER 3: MUNICIPAL AND PUBLIC UTILITIES; RULES AND REGULATIONS; RATES AND CHARGES

Public Info



The screenshot shows the website for the Austin Sump Inspection program. At the top left is the Austin logo with the tagline "GROWING TOGETHER". The main heading is "Austin Sump Inspection". Below this is a navigation menu with links for "home", "program information", "FAQs", "notices", "inspection map", "contact", and "schedule inspection". The main content area is titled "SUMP PUMP INSPECTION PROGRAM" and is dated "Updated 7/14/2021". There are two columns of text. The left column contains links for scheduling an inspection and a toll-free number. The right column, under a "NEWS" header, contains a public informational meeting notice for Tuesday, July 27th at 5:30 pm at Austin City Hall. Below the main text is a section titled "Why is this important?" which explains the city's mandatory sump pump inspection program and its goals.

A successful program benefits the City by reducing backups, protecting health, and controlling costs

whks

Information available in print and on the web at

- www.AustinSump.com
- City of Austin Social Media



The image is a clipping from the Austin Daily Herald newspaper. The masthead reads "Austin Daily Herald" with a weather icon and "36°". The main headline is "Council adopts sump pump inspection ordinance: Informational meeting to be held April 17" by Mike Stoll. To the left of the main headline is a "LATEST STORIES" section with three items: "Workshop on human trafficking to be held at the library", "Minnesota High School League adjusts rules to snowy season", and "Minn. to spend \$1.3M amid licensing system complaints". At the bottom left, there is a partial headline: "A late sign of spring: First barge tow reaches Hastings".

Austin Daily Herald Article

City of Austin
500 Fourth Avenue N.E.
Austin, Minnesota 55912-3773



Sump Pump Hotline
Toll free 1-844-630-0878

March 31, 2022

To: John Sample
Sump Inspection for building at 123 Sample St

RE: Sump Pump Inspection Program

The City of Austin prohibits the discharge of clear water into the sanitary sewer system. Clear water from any roof, surface, ground, sump pump, footing tile, swimming pool, seepage collection system ("beaver system") or other natural precipitation is prohibited from discharging into the sanitary sewer.

Due to evidence of non-compliance during recent wet weather, the City has adopted an ordinance that requires **mandatory sump pump inspections** of all buildings with sewer accounts. The mandatory sump pump inspections will verify that sump pumps, roof drains, and other clear water sources are not connected to the sanitary sewer system. The engineering firm, WHKS & Co., is coordinating this program and will serve as Project consultant.

Why is the City conducting the sump pump inspections?

- Sump pump programs are typically the **MOST** cost effective method to reduce clear water from the sanitary sewer collection system.
- Removing clear water from the sanitary sewer
 - Protects your investment in the public infrastructure
 - Reduces the potential for backups and property damage
 - Helps the City increase customer satisfaction
 - Helps to ensure that future residential, commercial and industrial developments can be allowed within the City
- All buildings with sewer accounts will be inspected. A typical inspection is completed in under 15 minutes.

If you are receiving this letter, your inspection will take place in 2022. The Northeast area of Austin — generally north of Oakland Avenue East and east of Main Street North—will be inspected in 2022. This is the fourth of six phases for the program. In past years, three sectors all south of Oakland Avenue were completed. The Northeast area will be separated into approximately five sectors, designated by a color (red, yellow, green, blue and purple), to stagger inspection times throughout the year. Please visit Austinsump.com to see what sector your property is in. **You will be contacted by letter when it is time to schedule your inspection.**

The City will host a **public informational meeting on Thursday, April 14th at 5:30 pm at Austin City Hall in the Council Chambers** to discuss scheduling of inspections, length of inspection, proper sump pump connection, and other miscellaneous items.

Your anticipated cooperation is greatly appreciated in completing this program. If you have any questions, or would like to review the Ordinance, please contact the WHKS & Co. office toll free at 1-844-630-0878.

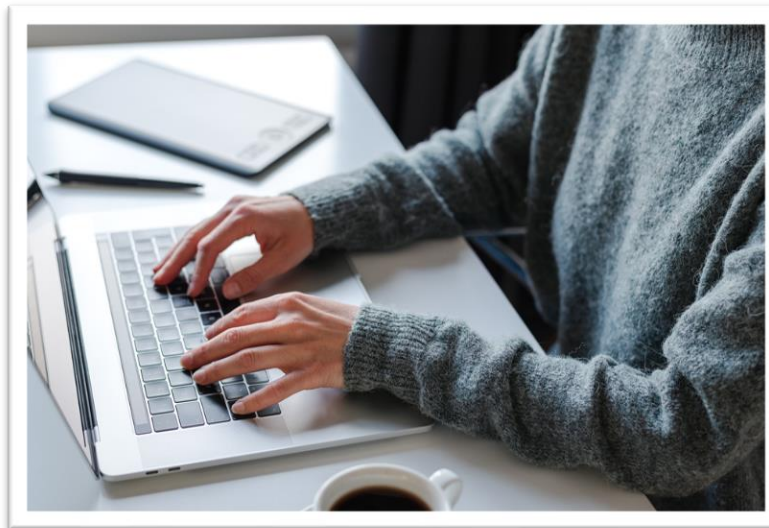
Sincerely,

Steven J. Lang P.E. – City Engineer

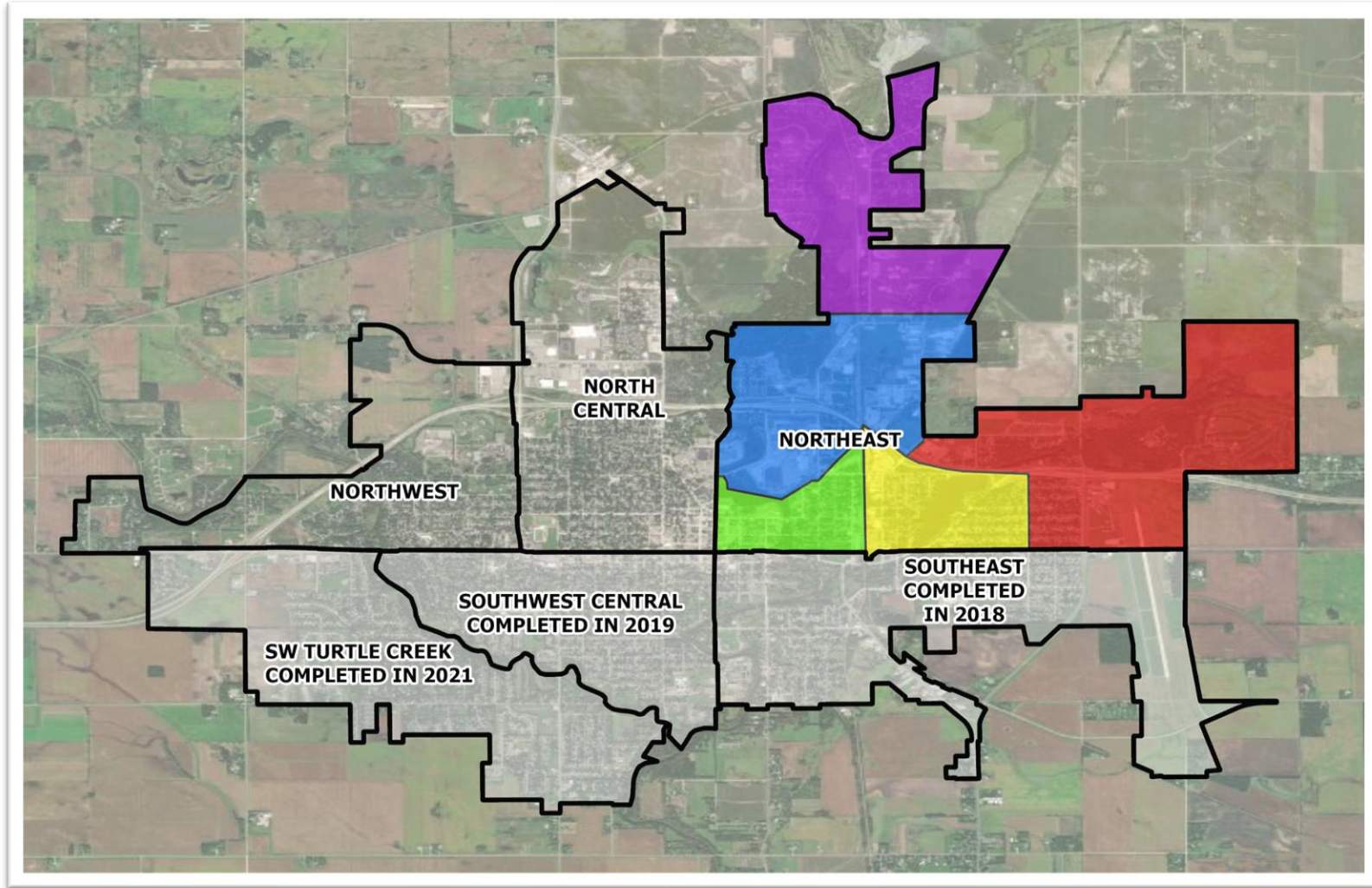
Invitation to attend
public info meeting (all
sectors) and schedule
inspection (red only)

Scheduling

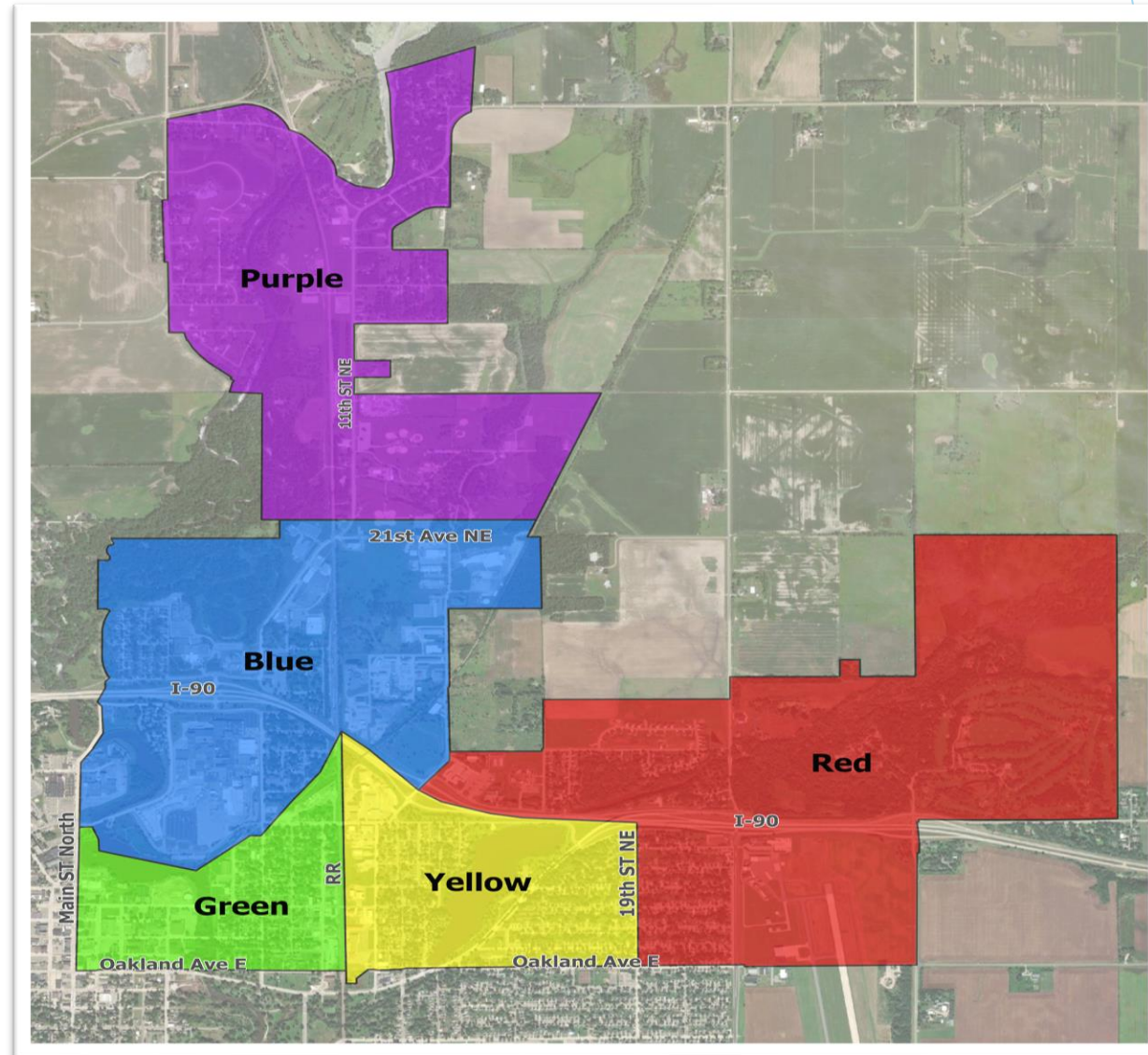
- ▶ All inspections are scheduled, no door-to-door inspections
- ▶ Scheduling is fast and easy
- ▶ Schedule through website or telephone
- ▶ Residents will receive a letter when it is time for their sector to schedule inspections.
 - **RED** Sector has already received an inspection invite letter.



Citywide Sectors



2022 - Northwest Inspection Sectors



Scheduling and Info Website AustinSump.com



Austin Sump Inspection

[home](#) [program information](#) [FAQs](#) [notices](#) [inspection map](#) [contact](#)

[schedule inspection](#)

SUMP PUMP INSPECTION PROGRAM

Updated 3/28/22

Received a Letter? [Click Here](#) to Schedule an Inspection

Have a Question? Please call toll free 844-630-0878.

Want to know more about the program? Review the information below.

- [Who is getting an inspection?](#)
- [Why is this important?](#)
- [What should I do?](#)
- [What is an inspection?](#)
- [What's the next step?](#)

Who is getting an inspection?

The City of Austin is continuing its mandatory sump pump inspection program. To complete the program the City is divided in to six areas: Northeast, Southeast, Northwest (divided into two

** NEWS **

A **Public Informational Meeting** will be held on **April 14th at 5:30 pm** at Austin City Hall in the Council Chambers.

Meeting will discuss the scheduling of inspections, length of inspections, proper sump pump connections and other miscellaneous items.

Information from the meeting will be posted in the Notices section.

Scheduling and Info Website

AustinSump.com

Schedule Inspection

This building does not have an inspection scheduled.



Schedule Inspection

Select a time for an inspection of 133E



Edit Notes

Provide special instructions for inspectors or other information about your property.

Scheduling and Info Website AustinSump.com

Scheduling Calendar

whks

			1	2	3	4	<h3>April 22</h3> <p>Click the time below to schedule.</p> <p>7:15am - 7:30am 7:30am - 7:45am 9:15am - 9:30am 9:45am - 10:00am 10:30am - 10:45am 11:00am - 11:15am 11:15am - 11:30am 11:30am - 11:45am 11:45am - 12:00pm 12:00pm - 12:15pm 12:15pm - 12:30pm 12:45pm - 1:00pm 2:00pm - 2:15pm 2:15pm - 2:30pm 2:30pm - 2:45pm 2:45pm - 3:00pm 3:00pm - 3:15pm 3:15pm - 3:30pm 3:30pm - 3:45pm 3:45pm - 4:00pm 5:00pm - 5:15pm 5:15pm - 5:30pm 5:45pm - 6:00pm 6:00pm - 6:15pm</p>
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	

Scheduling and Info Website AustinSump.com

Residents Welcome Screen

Schedule Inspection

You have an inspection appointment scheduled for April 21, 8:00 AM



[Schedule Inspection](#)

Select a time for an inspection.



[Edit Notes](#)

Provide special instructions for inspectors or other information about your property.

Scheduling and Info Website AustinSump.com

Resident Log Out & Appointment Confirmation

You are Logged Out

Yay!

You have logged out. You have an inspection appointment scheduled for 04/21/2015 8:00 AM Thank you for participating in this program.

The Inspection

- ▶ Completed in under 15 minutes, many under 5 minutes
- ▶ Adult must be present
- ▶ Inspector looks at:
 - Sump pumps
 - Beaver drains
 - Roof drains
 - Site grading
- ▶ Notice of Violation and instructional diagrams given, if needed

Inspector Identification

AUSTIN - I/I PROGRAM INSPECTOR



AUSTIN
GROWING TOGETHER

BRET BAUMBACH



Example



All inspections are scheduled



No door-to-door



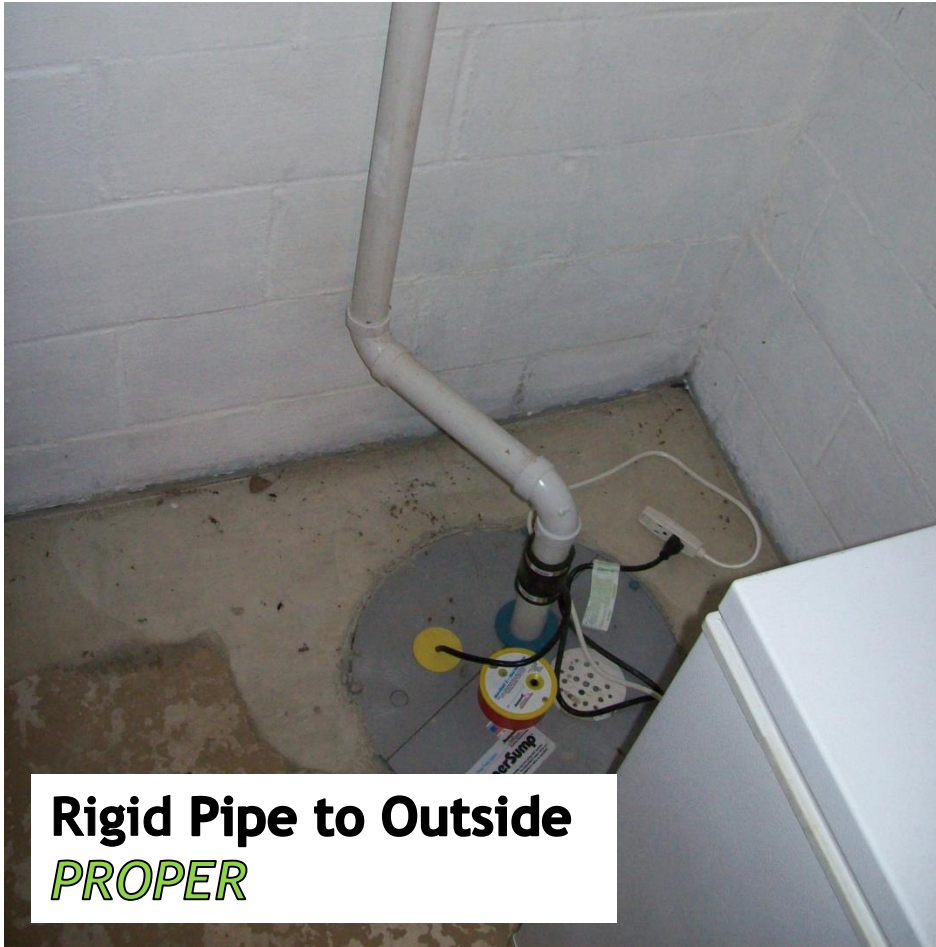
WHKS logos on:

Badges
Clothing
Vehicles

COVID-19 Safety

1. If requested, we will wear masks for the inspection
2. We will eliminate the signature at the end of the inspection to make it contactless
3. We request you maintain a distance of 6' from inspector

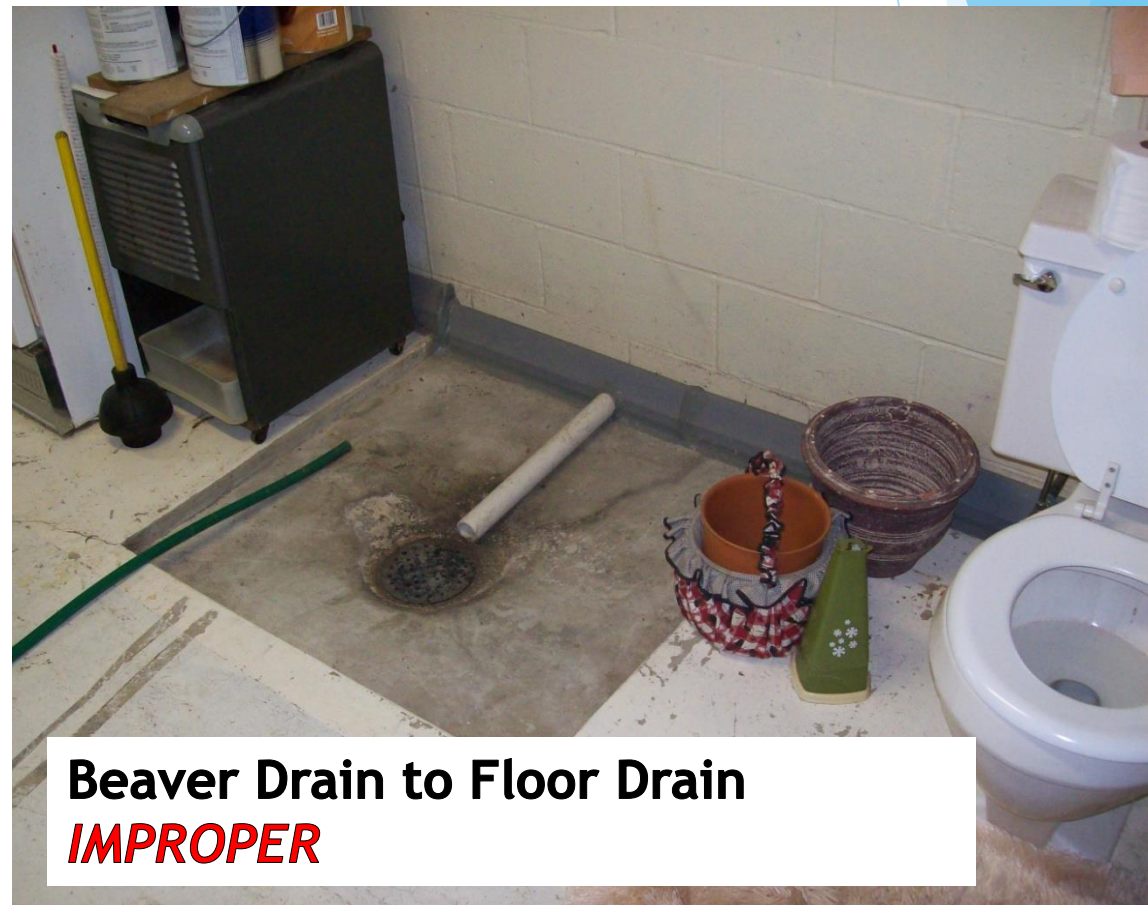
Installation Examples: Sump Pumps



Installation Examples: Sump Pumps



Installation Examples: Beaver Drains



Installation Examples: Beaver Drain/Tile



Tile into Floor Drain under Cover

IMPROPER

Installation Examples: Sump Pump with direct connection



Rigid Pipe to Outside
PROPER



Sump Pump to Floor Drain
IMPROPER

Inspection Form

Inspector _____
Plumbing License # _____

City of Austin Sump Pump Inspection Report

A. Initial Inspection

- Owner and Address:
 - Owner Name(s): _____
 - Address: _____
 - Occupants Name (If different): _____
 - Owner Address (s): (If different) _____
- Date of Initial Inspection: _____
- Date of construction and Building Type? Building built in year _____ (ex. 1959)
Note residential, apt., commercial, industrial: _____
- History of backups or flooding? Note date, source, and actions taken: _____

- Does building have:
 - Yes No Exterior grading sloping towards the building?
 - Yes No Roof drains that go into the ground?
 - Yes No Basement?
 - Yes No Seepage collection (beaver) system?
 - Yes No Sump pit?
- If building has a **roof drain** that goes into the ground, which of the following apply?
 - It is properly constructed to discharge to open air or storm system.
 - It is improperly constructed to discharge into the sanitary sewer system.
 - Discharge location not determined.
- If there is a **seepage collection (beaver) system**, which of the following apply?
 - It is properly constructed to discharge into a sump pit
 - It is improperly constructed to discharge into the sanitary sewer system.
 - Discharge location not determined.
- If there is a **sump pit**, which of the following apply?
 - Pump is properly plumbed to discharge outside the basement through rigid piping.
 - Pump is improperly plumbed to discharge into the sanitary sewer system.
 - Pump has the capability of discharging into the sanitary sewer system (ex. flex hose).
 - There is a pit with no pump. Plumbing is checked as (a) (b) or (c) if present.
 - Discharge location not determined.
- Other comments (exterior drains, uncapped cleanouts, inactive sump pit, etc): _____

- Photos taken of Interior Sumps and Collection System, and Building Exterior? Yes No
- If 6b, 7b, 8b or 8c was checked, a Violation Notice was given to the Occupant or Owner directing them to correct the violation by (date): _____

PASS _____

FAIL _____

City Follow-Up _____

Property Address _____ Page 2 of 2

DIAGRAM: roof drains into ground, exterior drains, improper grading, sump pits and pumps, sump pump discharges, beaver systems, sanitary grinder pumps, etc....

B. Subsequent Inspection

- Date of subsequent inspection: _____
- Inspection conducted by _____
- Does the building now comply with the applicable Ordinance for the City of Austin?
 Yes No

I hereby verify that the City Representative has inspected the above-described sump pump and the information set forth above is true and correct to the best of my knowledge.

Occupant/Owner

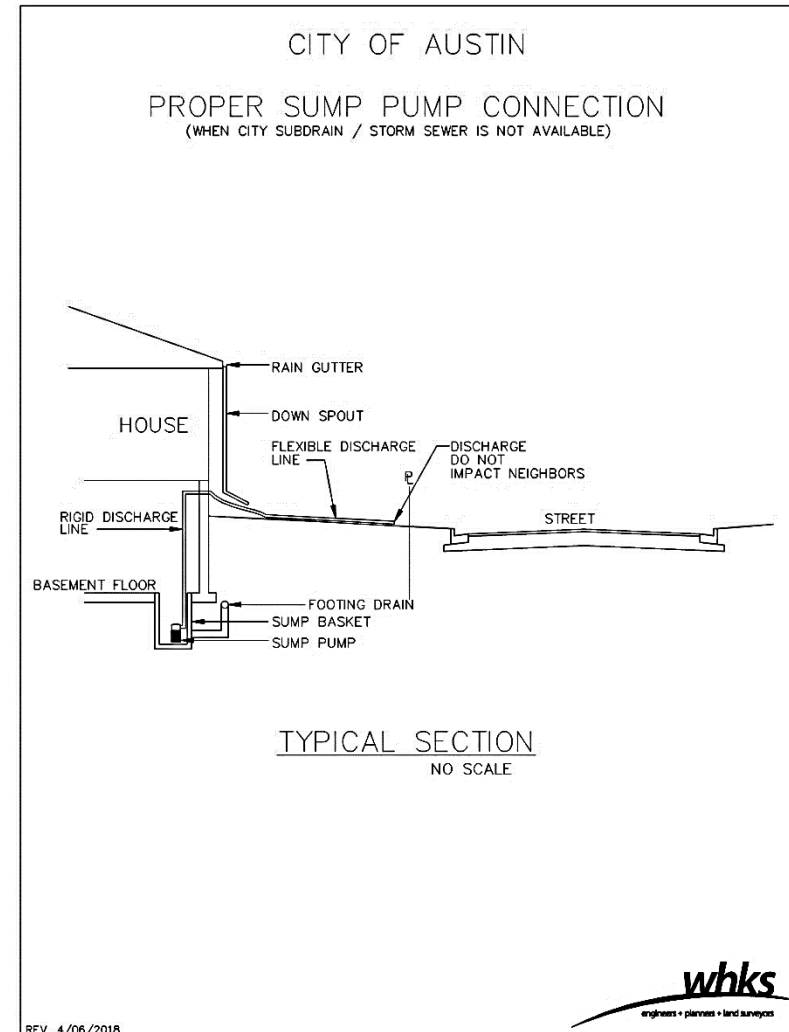
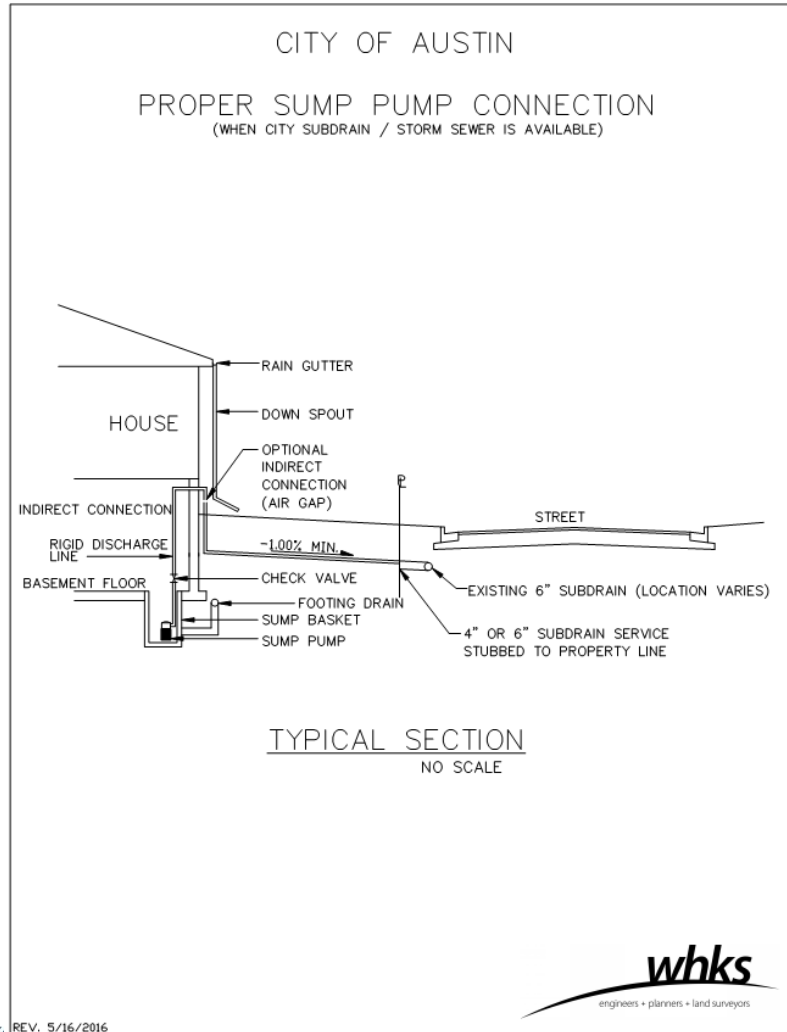
Date _____

I hereby verify that the City Representative has inspected the above-described sump pump and the information set forth above is true and correct to the best of my knowledge.

City Representative
Licensed Plumbers: sign with license #.

Date _____

Sump Pump Diagrams



Approximate Inspection Timeline

Item	Date
Public Information Meeting	April 14, 2022
Sump Pump Inspections	
Red Sector	April - May 2022
Yellow Sector	May - June 2022
Green Sector	July 2022
Blue Sector	August 2022
Purple Sector	September 2022
All Inspections Completed	October 2022

Next Steps

1. Wait for scheduling letter to arrive.
2. Then contact us by phone or login to website to schedule the appointment.



Questions?



Contact and Project Information

- ▶ Contact/ Project information
 - Bryan Kaemingk, P.E. (507) 288-3923
 - Scheduling Website: AustinSump.com
 - Call toll- free: (844) 630-0878