

One Village's Story of Lead Service Line Replacement

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Director of Public Works



From Main to Meter

From Design through Construction

From Health to Pandemic

- Vision
- Public Outreach
- Funding
- Design
- Construction
- Storied Ending?

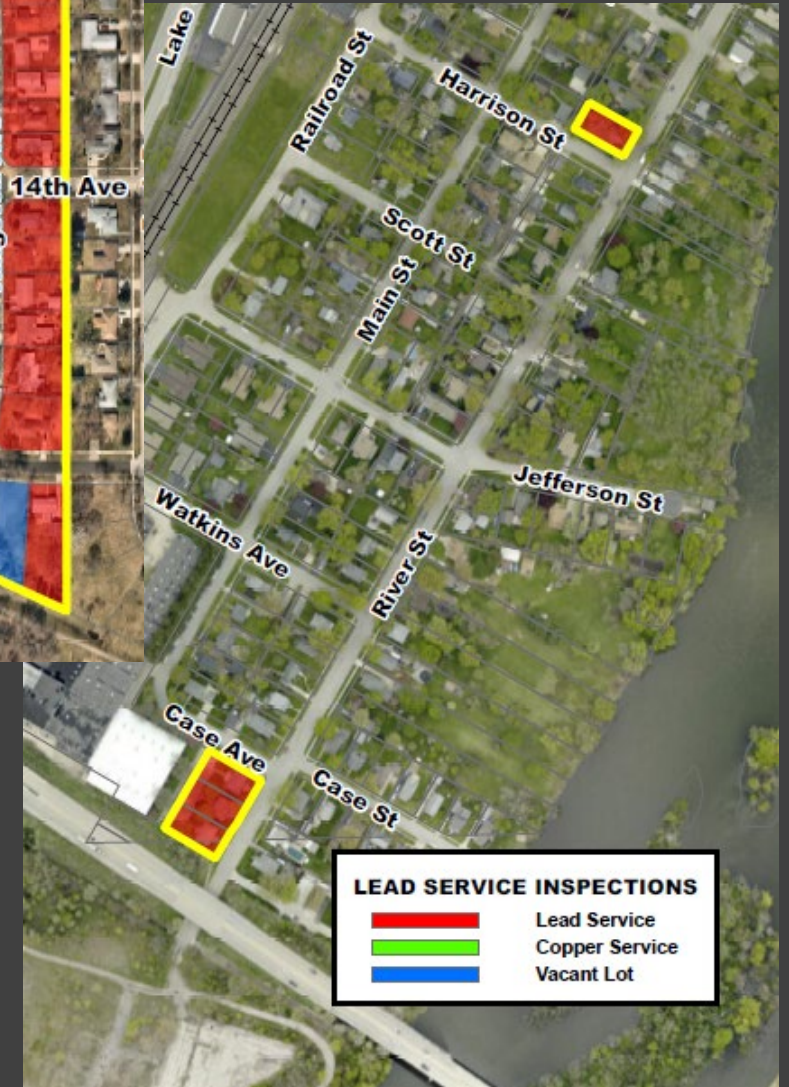
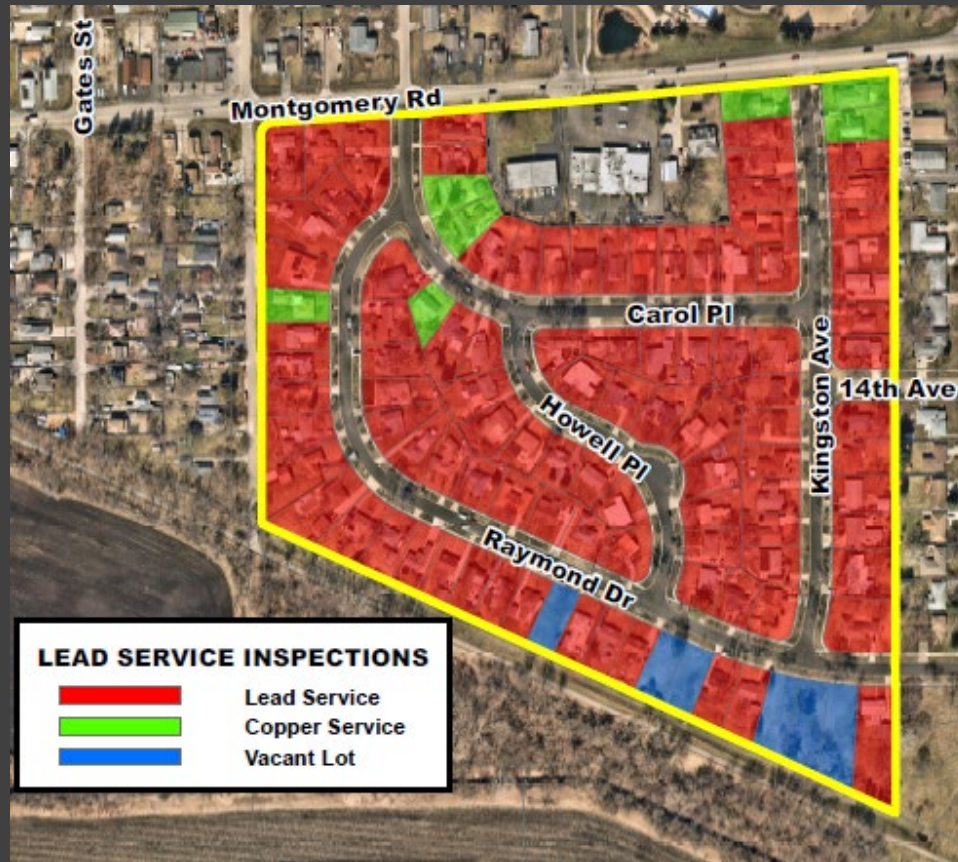


Vision



Village Vision

- Lead Free
- No Cost to Residents
- Committed Funding
- 100% Participation



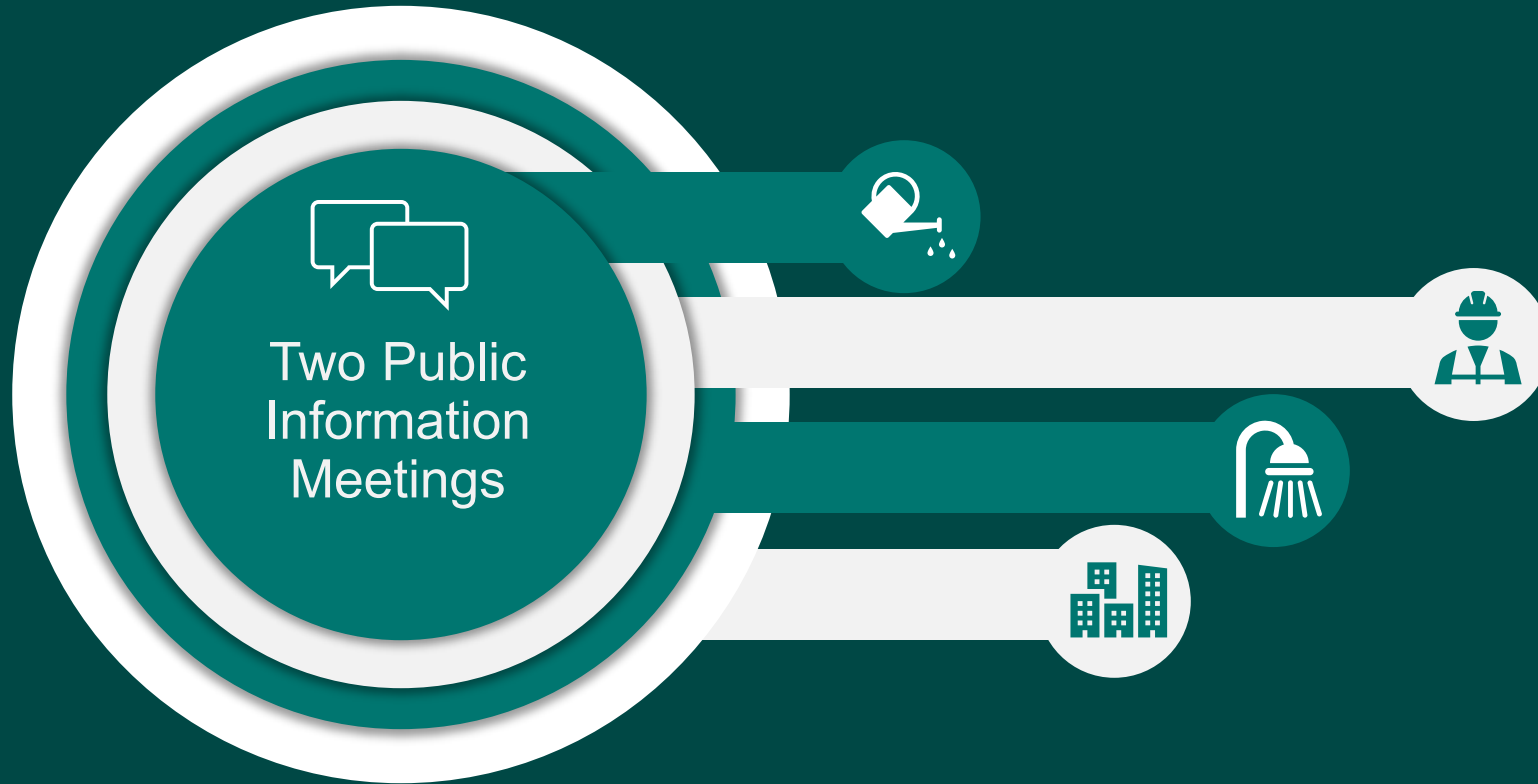
Public Outreach



Information and Coordination are Key

- Educate
- Educate
- Educate
- And Maybe a Little Money

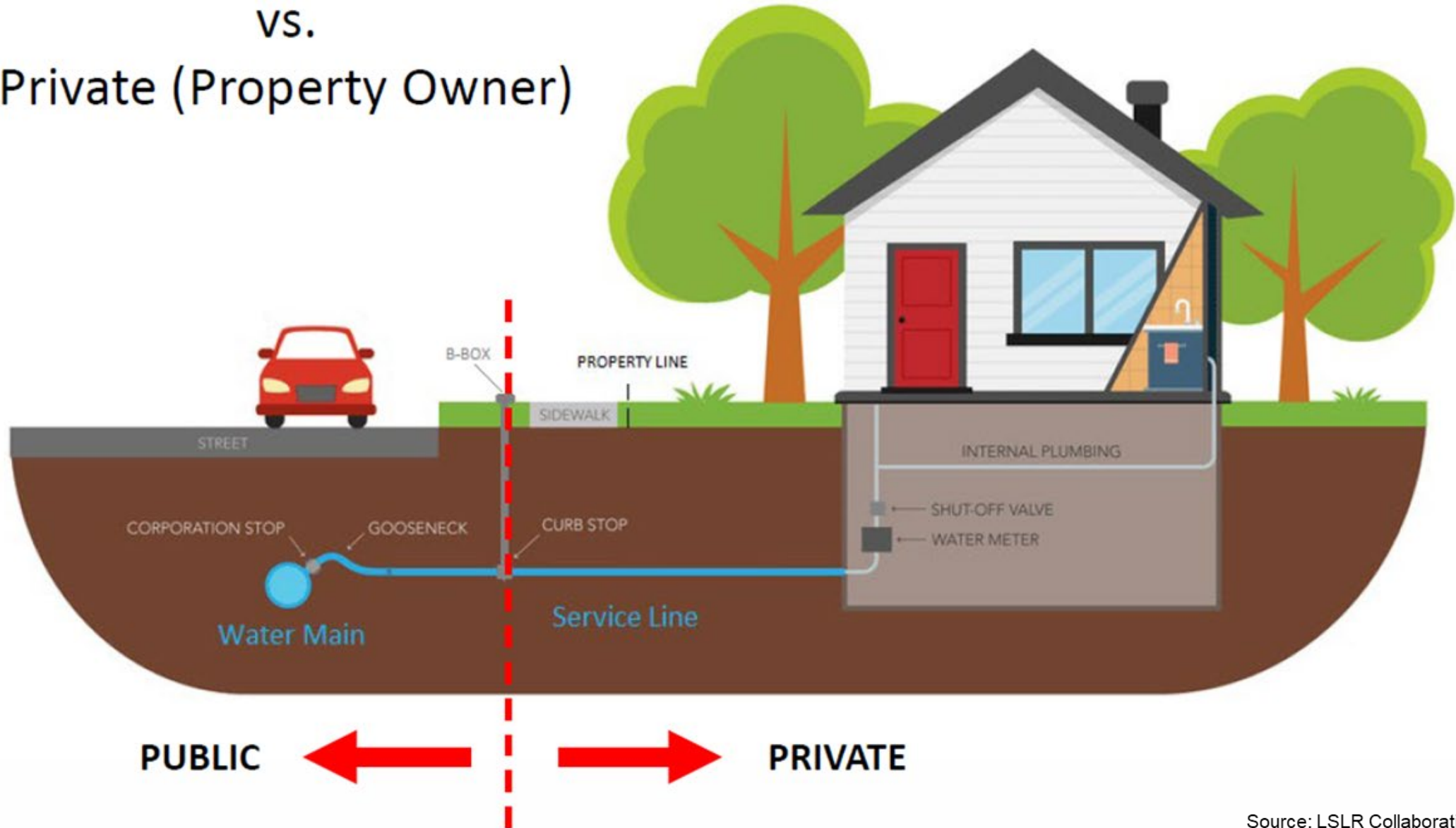




Before Design and Before Construction

- Introduce Key Players
- Gather Resident Information
- Why we want to get the lead out
- Assure Village water is safe to drink
- Where is the lead
- Limits of service replacement
- Who is paying for this?
- One time offer
- Schedule
- Home Assessments
- TCE Waivers
- Meet the Contractor
- How services will be replaced
- Set Expectations
- Homeowner Responsibilities
- Allowances and Incentives
- Q&A

Public (Village) vs. Private (Property Owner)



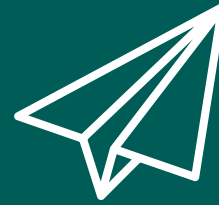
Home Assessments

Resident Info, Scheduling,
and Permissions



Flushing Guidelines

AWWA Replacement and
Flushing of Lead Service
Lines.



Flyers

English and Spanish

TCE

Temporary Construction
Easement Waiver Legal
Document



COVID-19

Resume project and provide
safety protocols

Project Schedule

Schedule shift due to
funding source



Reimbursement Notification

Loan funded internal repairs
to drywall, floors, paint, etc.

Show me the money!

Jerry McGuire

Money doesn't make you happy.
I now have \$50 million but I was
just as happy when I had \$48
million. Arnold Schwarzenegger

The safest way to double
your money is to fold it
over and put it in your
pocket. Kin Hubbard

*Money is not the most
important thing in the
world. Love is.
Fortunately, I love
money. Jackie Mason*

Dogs have no money. Isn't
that amazing? They're
broke their entire lives.
But they get through. You
know why dogs have no
money? .. No Pockets.
Jerry Seinfeld



Incentives and Allowances

*\$500 Inconvenience
Fee*

*\$1300 (max)
Reimbursement
Program*

TEMPORARY CONSTRUCTION EASEMENT WAIVER

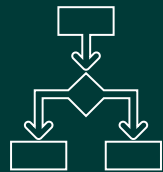
**Signed by Village
and Property Owner**
Not a recorded document



**Blanket Easement
Over Entire Lot**
Expired upon new meter
installation



**Responsibilities
of Both Parties**



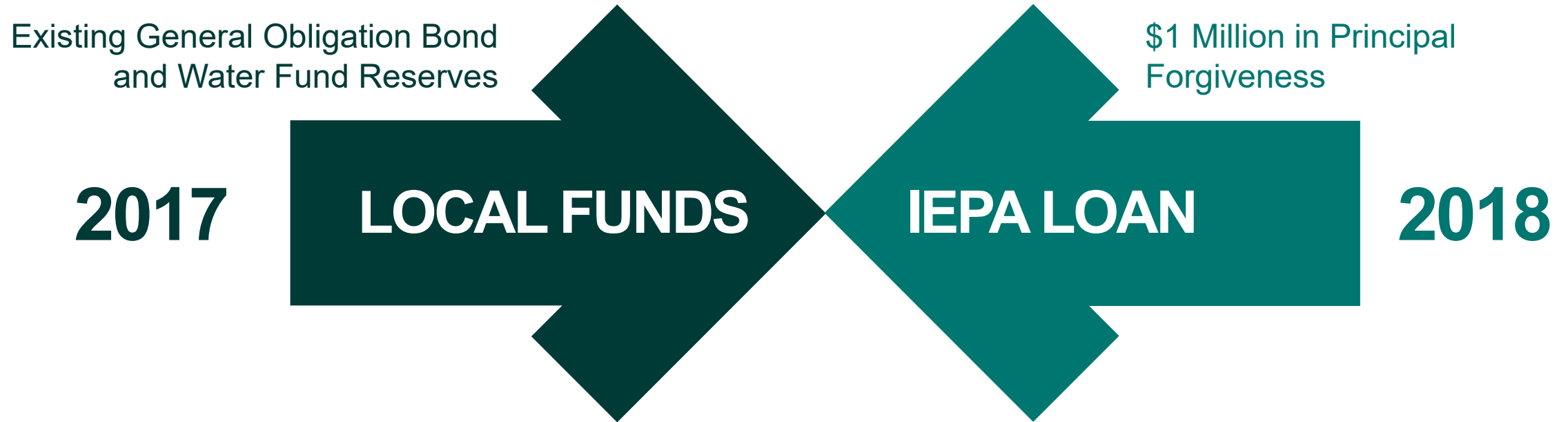
**Incentives and
Allowances**



Funding



CHANGE IN FUNDING SOURCE



Project Plan Approval Dec. 2018

\$1,389,651.49

Third Municipality in IL

General Obligation Bond to cover costs > \$1M
\$1300 Reimbursement Program Loan Eligible

Design





Asbestos Potential



Schedule Visit



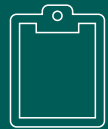
Pictures and
Videos



Teams of Two



Sketches



Detailed Assessment
Form

HOME ASSESSMENTS

- 114 Inspections Scheduled
- 95 Assessments Completed in 2 Weeks
- 86 Homes with Potential Asbestos
- 106 LSLR Identified

MARVIRAY MANOR HOME ASSESSMENT

Address: _____ Date/Time: _____

Homeowner Name: Jenny Homeowner Phone #: 867-5309

Preferred Language: ☐ English ☐ Spanish ☐ Other: Pets:

Young Children: _____ Preferred Entrance for Construction: _____

Building Construction: ☐ Basement ☐ Slab ☐ Crawl Space ☐ Other: _____

Any hazardous materials/conditions for construction i.e. asbestos: _____

Water Service:

Meter located in: ☐ Laundry Room ☐ Mechanical Room ☐ Other: _____

Meter obstructions: ☐ Water Heater ☐ Cabinet ☐ Other: None

Service Material: ☐ Copper ☐ Lead ☐ Plastic ☐ Iron ☐ Other: _____

Diameter before meter: ☐ ½" ☐ ¾" ☐ 1" Other: _____

Diameter after meter: ☐ ½" ☐ ¾" ☐ 1" Other: _____

Valve Before meter: ☐ Yes ☐ No Valve After meter: ☐ Yes ☐ No

Meter Replacement Needed: ☐ Yes ☐ No Meter Reading System: _____

Entry Point: ☐ Wall of 704 ☐ Floor ☐ Other: _____ Entry Depth: _____ Feet

If Floor, material: ☐ Tile ☐ Linoleum ☐ Bare Concrete ☐ Other: _____

Foundation Walls: ☐ Cinder Block ☐ Concrete ☐ Other: _____

If Basement: ☐ Finished ☐ Unfinished ☐ Partially Finished (see sketch below)

HVAC Ventilation under slab: _____ (see sketch)

B-box Location: _____ (see sketch)

MAR

Address: _____

Homeowner Name: Jenny

Preferred Language: English

Young Children: _____ Preferred

Building Construction: Basement

Any hazardous materials/conditions for

Water Service:

Meter located in: Laundry Room

Meter obstructions: Water Heater

Service Material: Copper

Diameter before meter: 1/2"

Diameter after meter: 1/2"

Valve Before meter: Yes

Meter Replacement Needed: Yes

Entry Point: Wall of 704

If Floor, material: Tile Lino

Foundation Walls: Cinder Block

If Basement: Finished U

HVAC Ventilation under slab: _____

B-box Location: _____



MAR

Address: _____

Homeowner Name: Jenny

Preferred Language: English

Young Children: _____ Preferred

Building Construction: Basement

Any hazardous materials/conditions for

Water Service:

Meter located in: Laundry Room

Meter obstructions: Water Heater

Service Material: Copper

Diameter before meter: 1/2"

Diameter after meter: 1/2"

Valve Before meter: Yes

Meter Replacement Needed: Yes

Entry Point: Wall of 704

If Floor, material: Tile Lino

Foundation Walls: Cinder Block

If Basement: Finished U

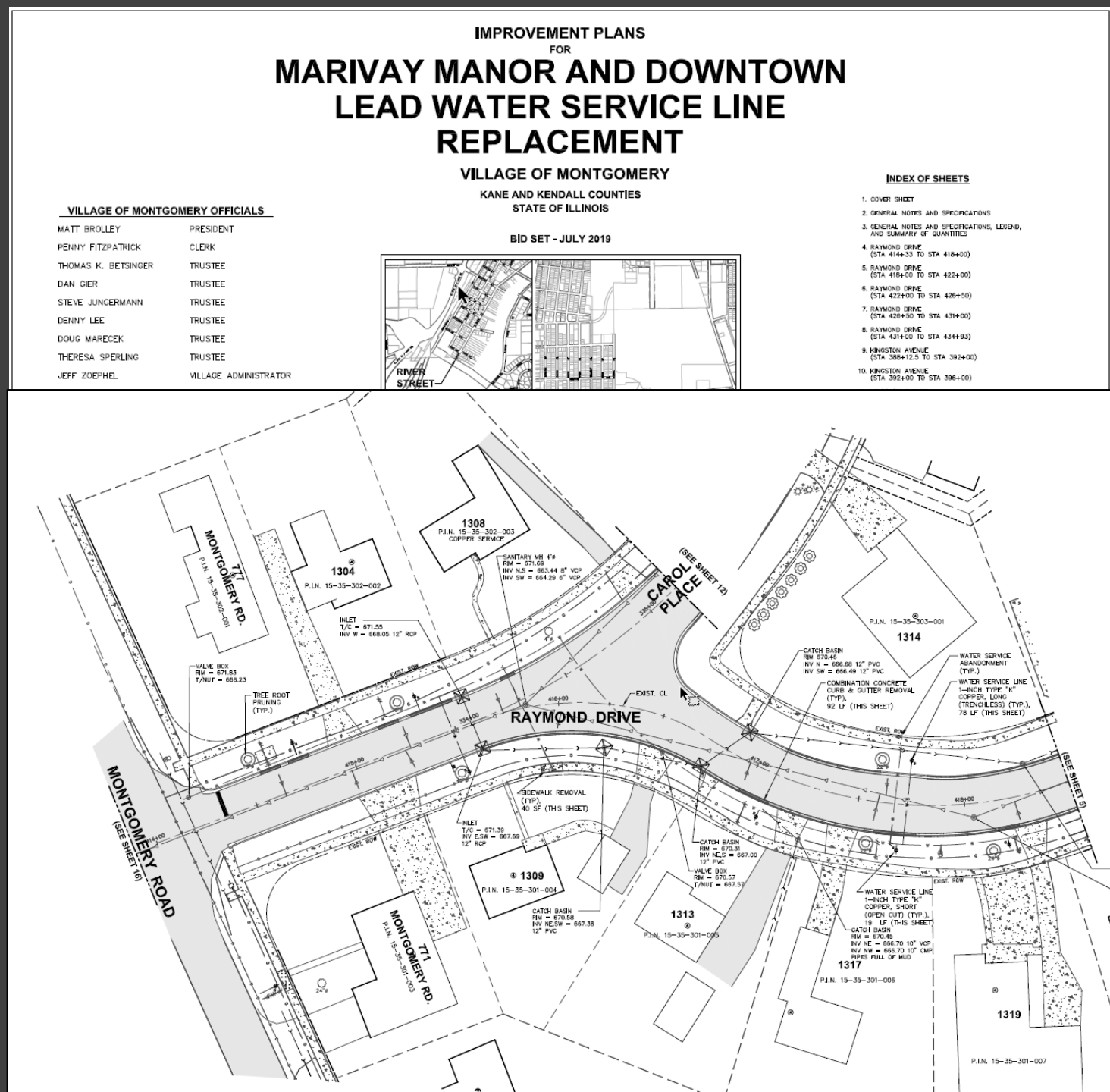
HVAC Ventilation under slab: _____

B-box Location: _____



Detailed Design

- Copper and HDPE services
- Topographic Survey
- Sanitary Sewer Televising
- Service Relocations
- Tree Assessments
- Future Storm Sewer Improvements
- DOT Permit
- Asbestos Testing Results
- Geotech and CCDD
- Coordination with Annual Road Program



Construction



Contractor Responsibility



**Coordination
and Scheduling
with Residents**



**Private
Utility
Locates**



**Asbestos
Abatement**



**Schedule
Plumbing
Inspection &
Meter Install**

Method of Construction

- Trenchless Required
 - HDD
 - Lead Extraction*
- Abandonments
 - Pressure Reduction
 - Corp Removal
 - Repair Clamp

*Lesson Learned



7/8/2020
1372 + 1377
HOWELL

SEQUENCE OF CONSTRUCTION

Drill Pilot Hole and Core Through Foundation

Excavation Pits at
Existing Water Main and
New B-Box Location



Pull Service

Private Side
Basement = Copper
Slab = Plastic w/Tracer

Public Side = Copper



Install Meter

Jumper Wire
Slab = Grounding Rod

Reconnect Meter Reader



Install Curb Stop, Corp Stop, Abandon Ex. Service

Plumbing Inspection

Flush per AWWA
Guidelines



Structural Repairs and Backfill

Resident responsible for
replacing flooring,
drywall, paint, etc.
(Reimbursement Program)



Averaged
2 to 3
Services Per
Day



LAST LSLR

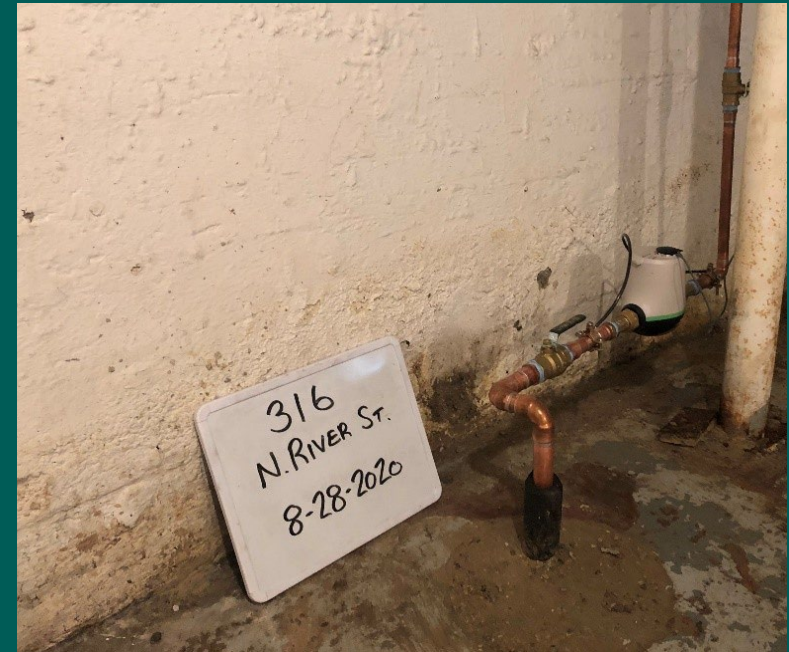
Before



During



After



Storied Ending?



2017

Project Kick Off Meeting – 9/27/17

Public Meeting No. 1 – 10/25/17

2018

Home Assessments

IEPA Funding Opportunity – Early 2018

2019

Project Plan Approval – 12/15/18

2020

2017

Project Kick Off Meeting – 9/27/17

Public Meeting No. 1 – 10/25/17

2018

Home Assessments

IEPA Funding Opportunity – Early 2018

2019

Project Plan Approval – 12/15/18

2020

2017

IEPA Intended Funding List – 7/1/19

Out to Bid – 7/5/19

Bid Awarded – 8/26/19

2018

Public Meeting No. 2 – 9/17/19

2019

IEPA Loan Issued – 10/10/19

Construction Start – 11/7/19

2020

Winter Shut Down – 12/16/19

2017

2018

2019

2020

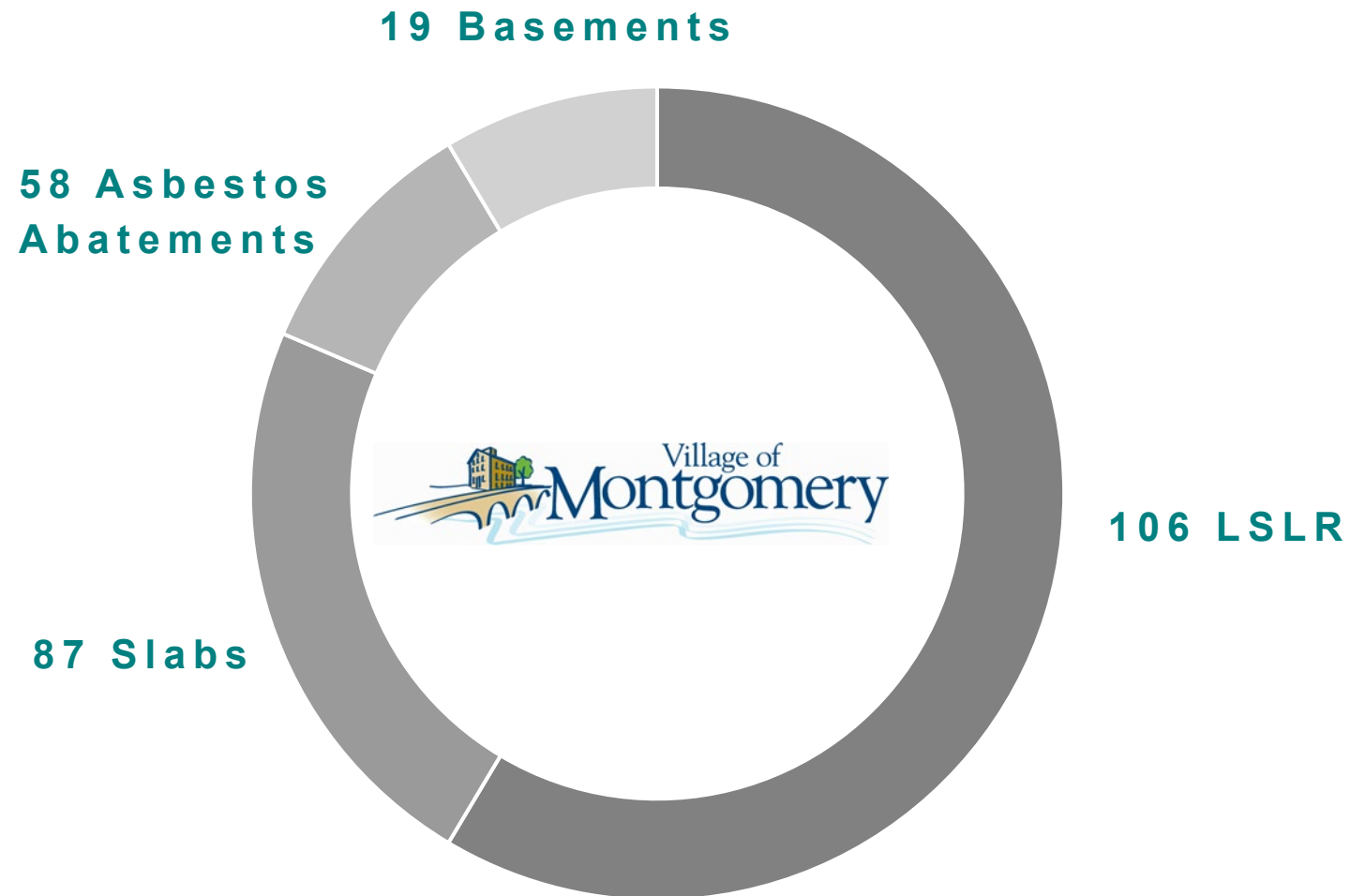
COVID-19 Pandemic

Construction Resumed – 6/30/20

Last Service Installed – 8/28/20

Contract Completion Date – 10/30/20

Project Scope





Funds

- IEPA Loan Approval
= \$1,389,561.49
- Loan Value = \$1M
- Forgiveness = \$1M
- GO Bond = \$0.5M
- Total = \$1.5M
 - Const. Eng.
 - Construction
 - Reimbursement Program



Construction Estimate and Awarded Value

- Estimate =
\$1,130,513
- Award =
\$1,060,741.25



Additions and Final Construction Cost

- Additions =
\$4,501.49
(0.44%)
- Final =
\$1,020,096.58



Savings

\$40,644.67

Storied Ending? We think so.

**On Time
Despite a
Pandemic**



**Under
Budget**



**100%
Participation
Rate!**





Matt Brolley

Village President at location of last LSLR

“This is a monumental goal and achievement for the Village. Being at the forefront of the lead-free initiative and paying the cost so as not to burden homeowners is a huge milestone. Everyone involved should be very proud”



Engineering Enterprises, Inc.

Outstanding Service ~ Every Client ~ Every Day

**BRANDT
EXCAVATING
INCORPORATED**



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ENGINEERING INC.





**Questions or
Comments?**

THANK YOU

We value your time and appreciate the opportunity to present to you today.

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