

CITY OF MEMPHIS

SEWER ASSESSMENT AND REHABILITATION PROGRAM (SARRP10)

GROUP 1 CIPP

FUNDED BY : TN STATE REVOLVING FUND (SRF) LOAN PROGRAM

LOAN NO. SRF 2019-421

DATE: 3/11/2019

INDEX OF SHEETS	DESCRIPTION
0	COVER
1-179	GROUP 1 CIPP



BLACK & VEATCH

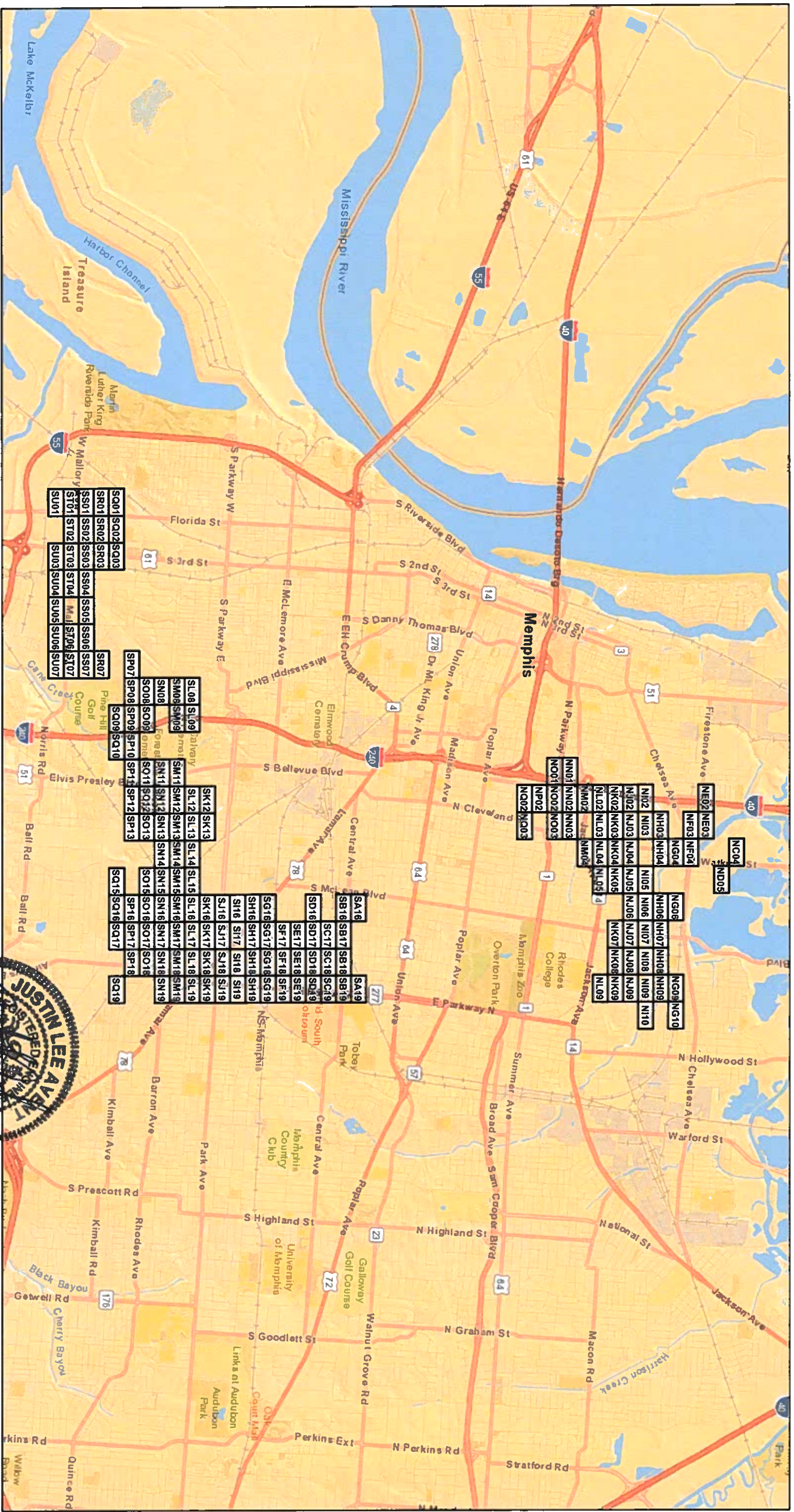
Black & Veatch Corporation

845 Crossover Lane, Suite 120

Memphis, TN 38117

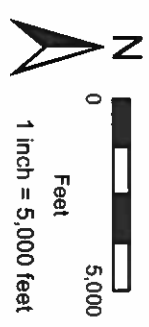
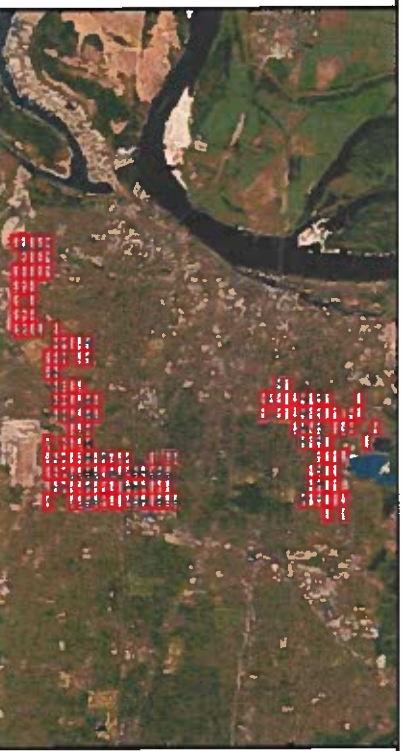
TN Engineering License No. 8580





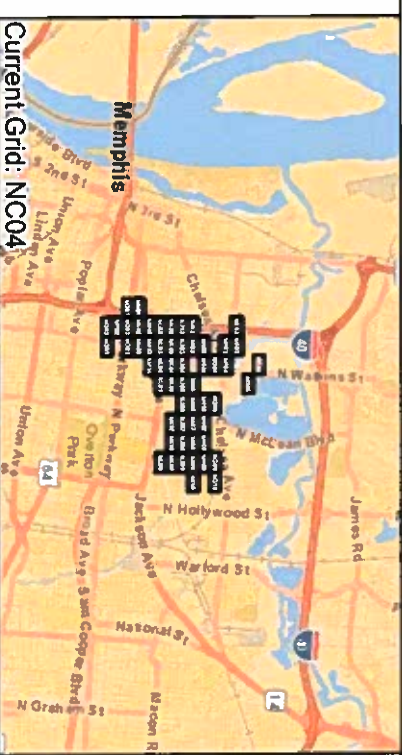
- ### Manhole Rehab
- Install Inside Drop (16)
 - Cementitious Coating (137) (135)
 - Repair Bench/Channel (50)
 - Cementitious Coating and Install Inside Drop (12)
 - Repair Bench/Channel and Install Inside Drop (34)
 - Structurally Replace Manhole (5)
 - Install New Manhole (9)

- ### Pipe Rehab
- CIPP (166)
 - Point Repair Only (61)
 - Point Repair (174)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

Phase 1 Rehab Overview



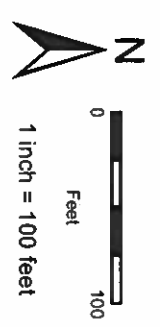
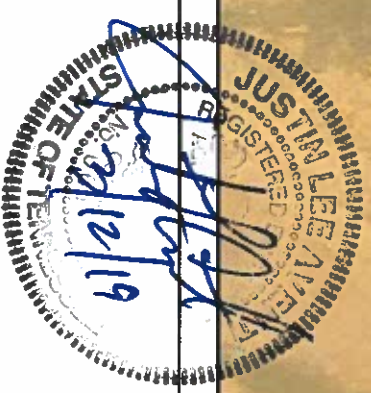
Current Grid: NC04

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

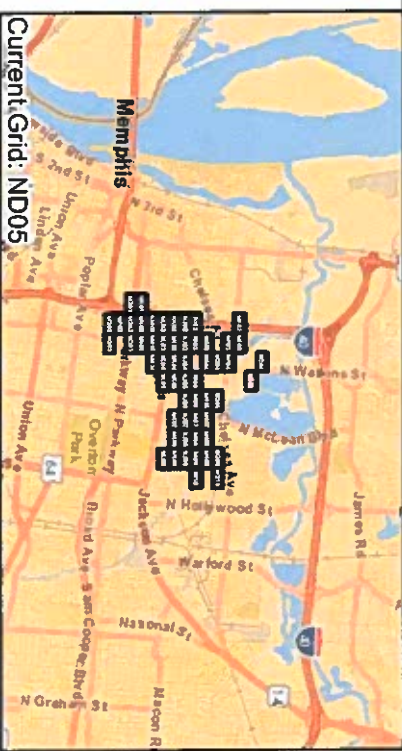
- Point Repair Only (0)
- CIPP (0)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



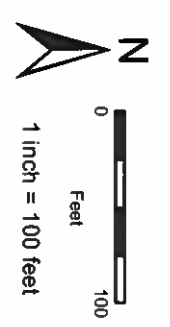
Group 1 Rehab Grid NC04

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

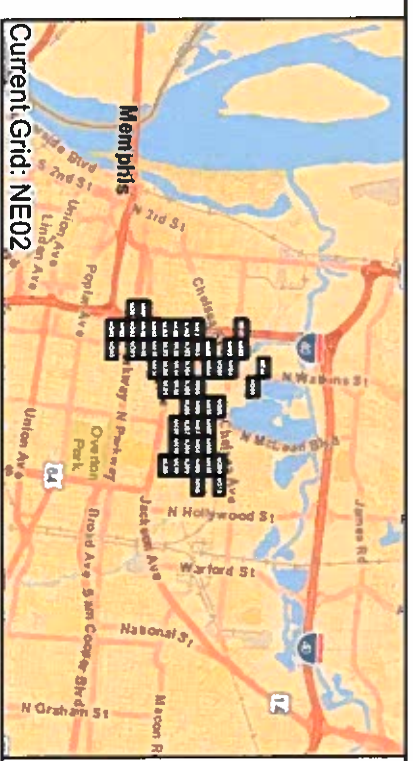
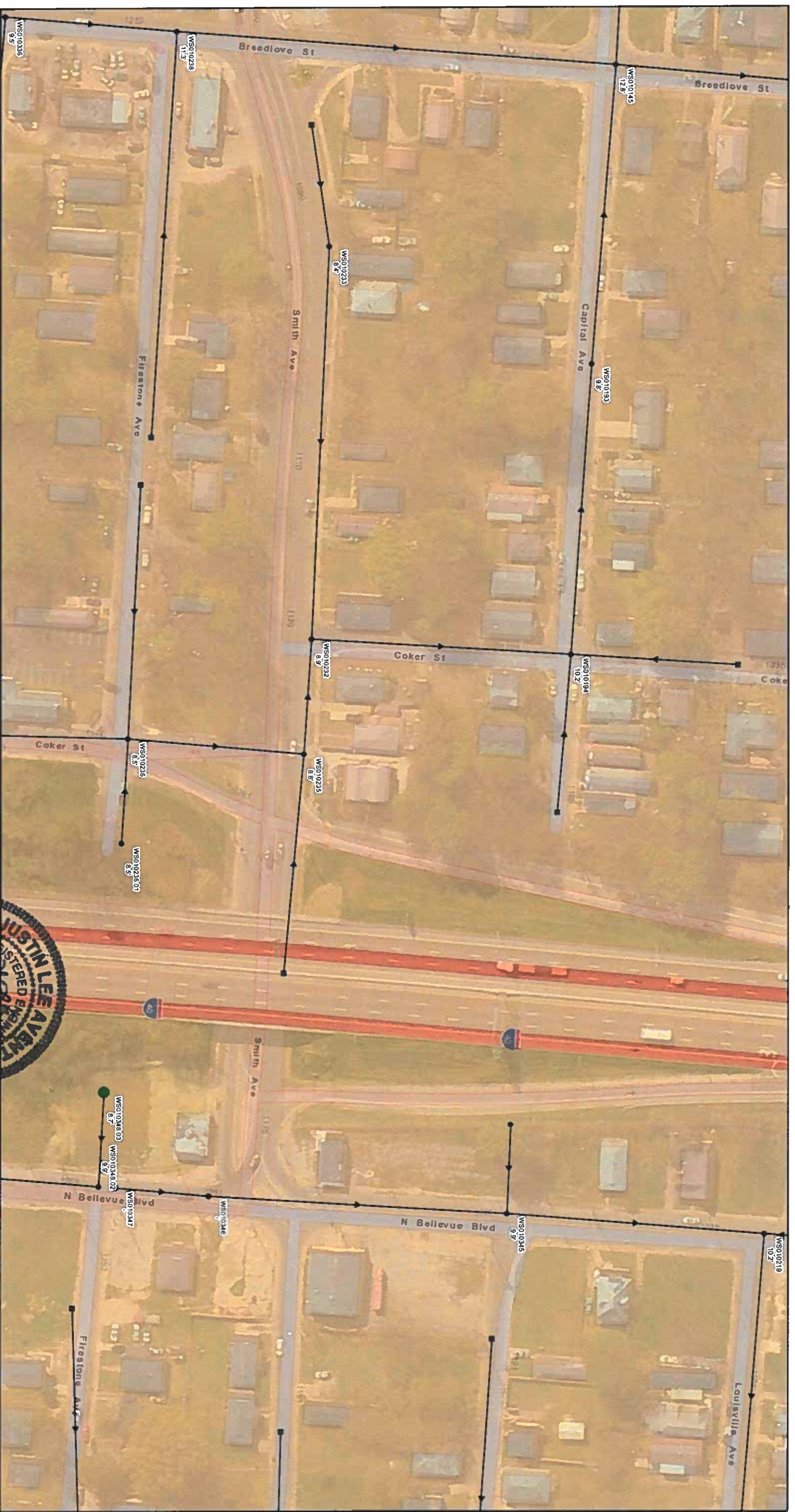
ND05



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (0)
 - Point Repair Location (1)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (0)
 - Point Repair Location (0)

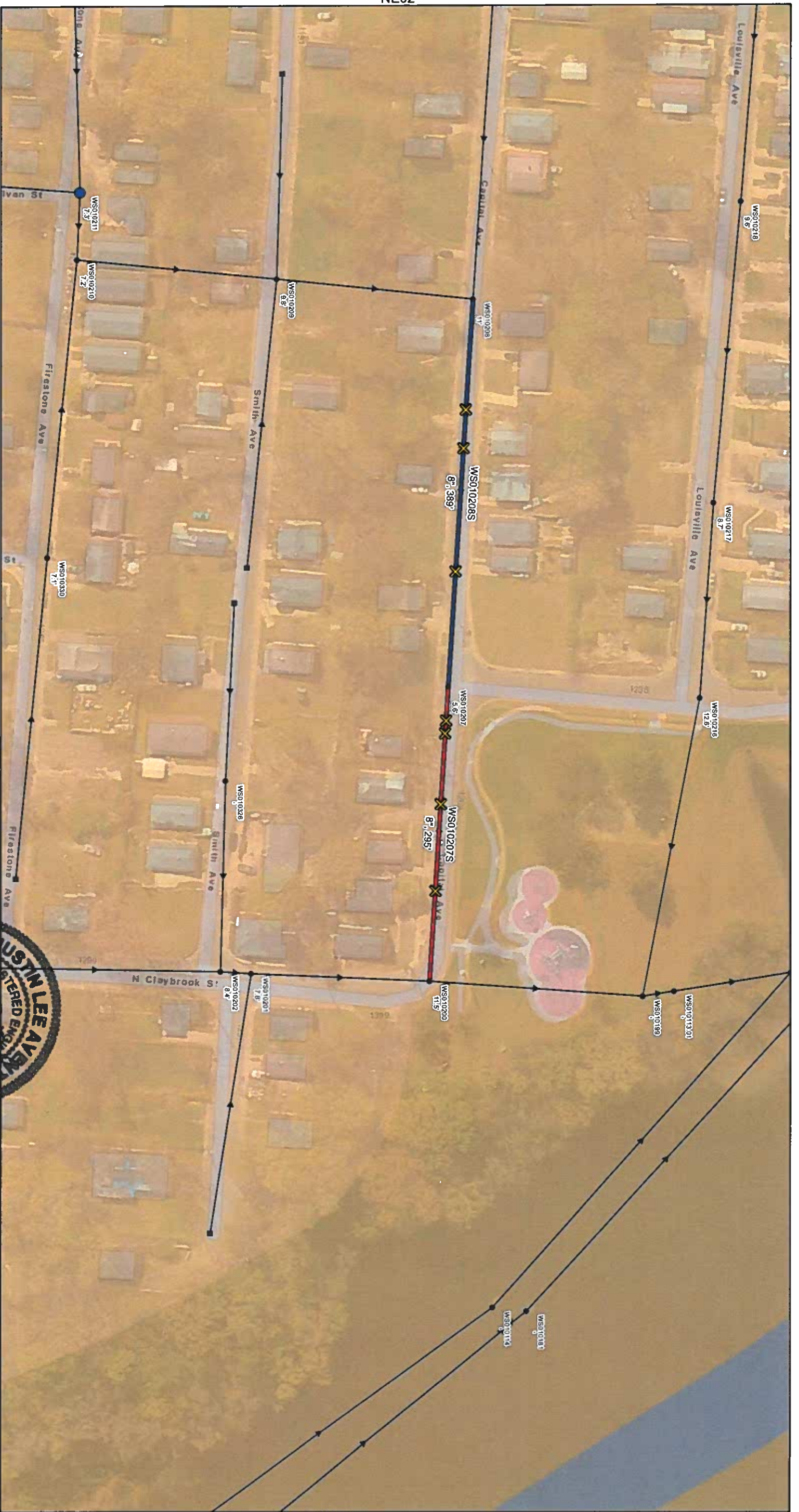
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NE02

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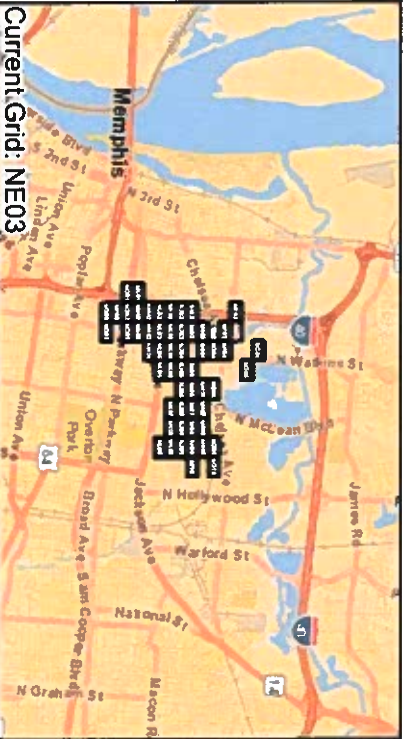
Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NE02

NF03

NF04



Current Grid: NE03

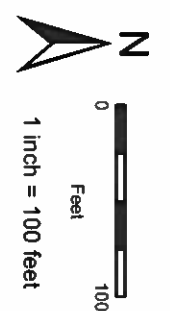
Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

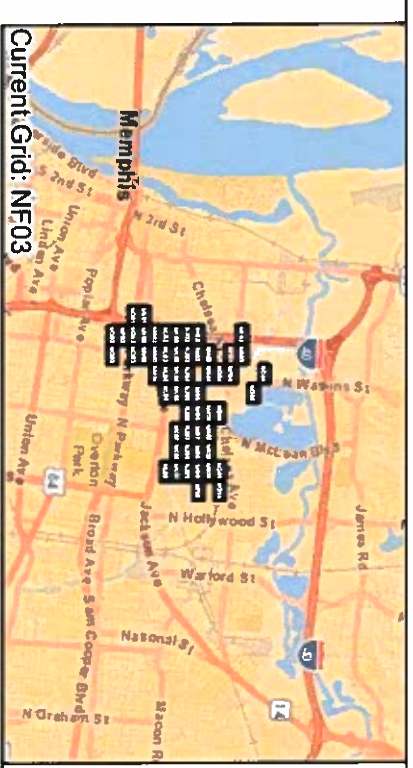
- Point Repair Only (1)
- CIPP (1)
- Point Repair Location (7)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NE03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

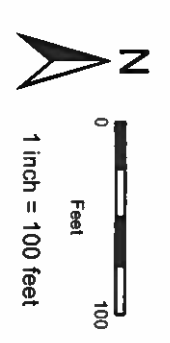


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

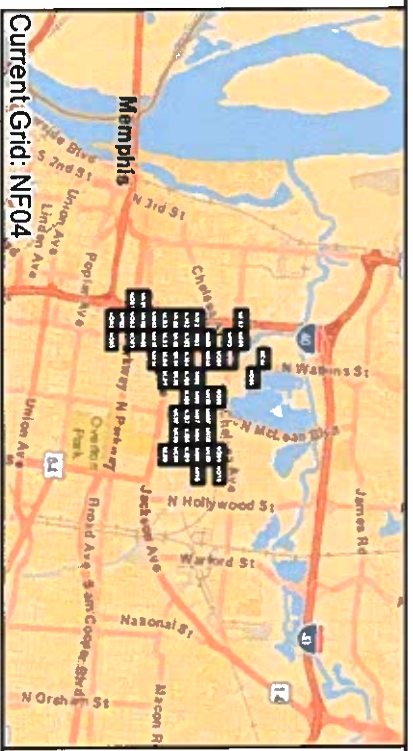
Pipe Rehab

- Point Repair Only (1)
- Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NF03

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Current Grid: NF04

Manhole Rehab

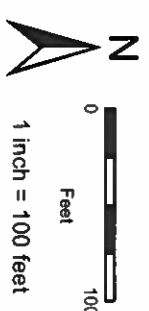
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (1)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- X Point Repair Location (1)

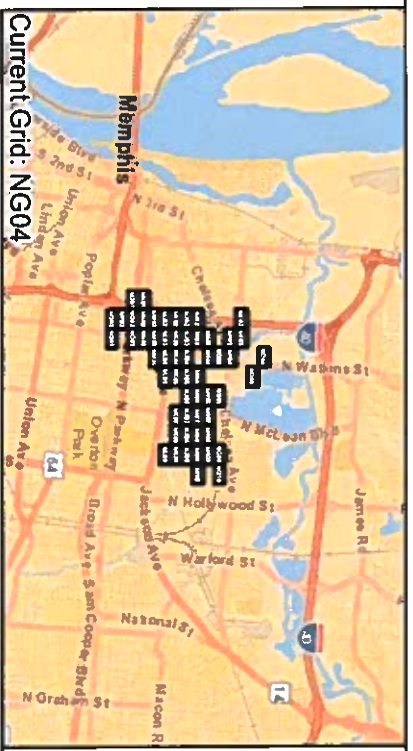
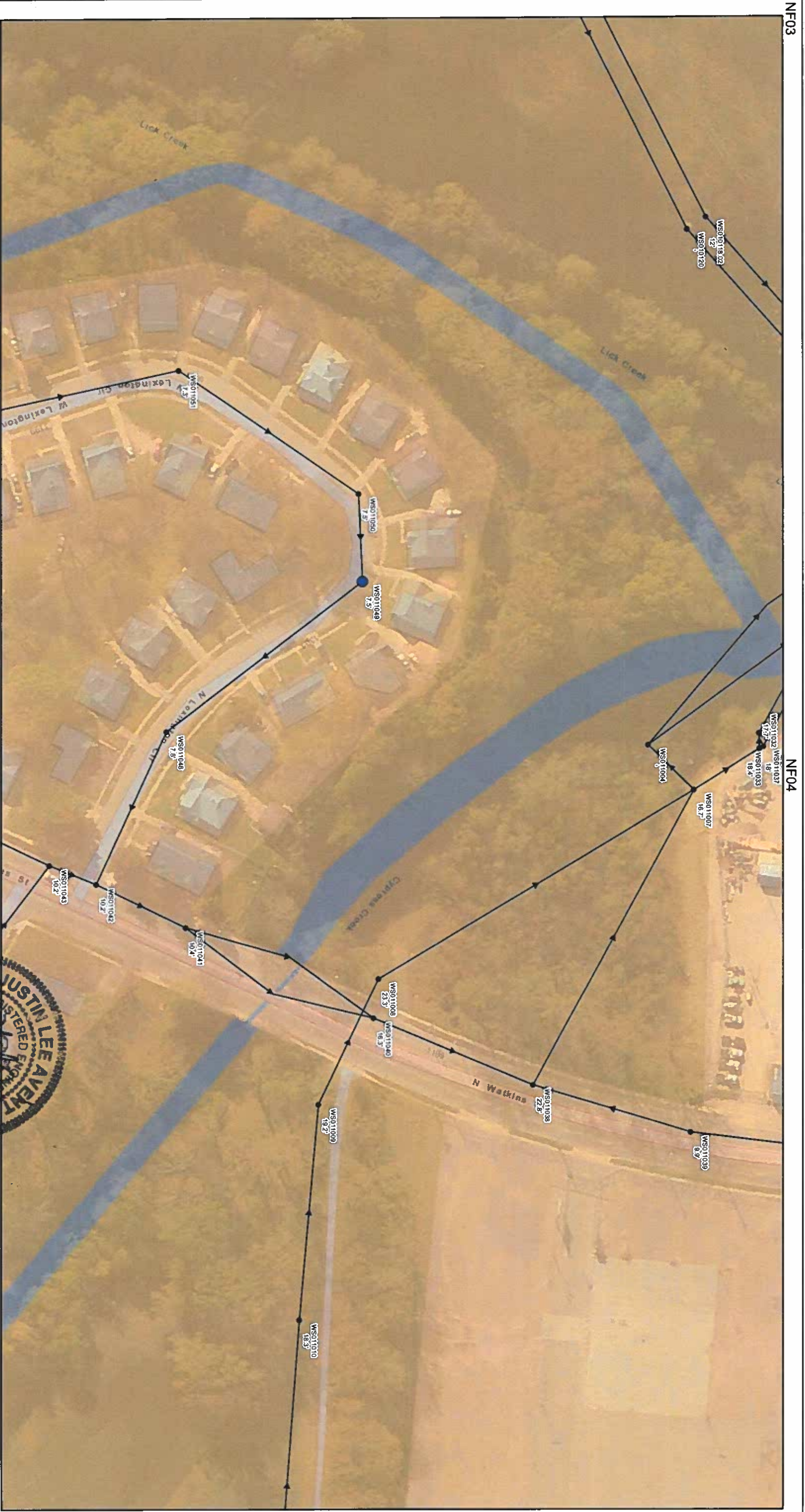


- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



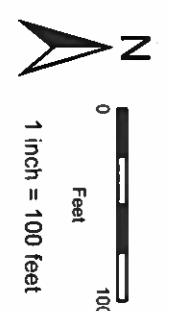
Group 1 Rehab Grid NF04

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

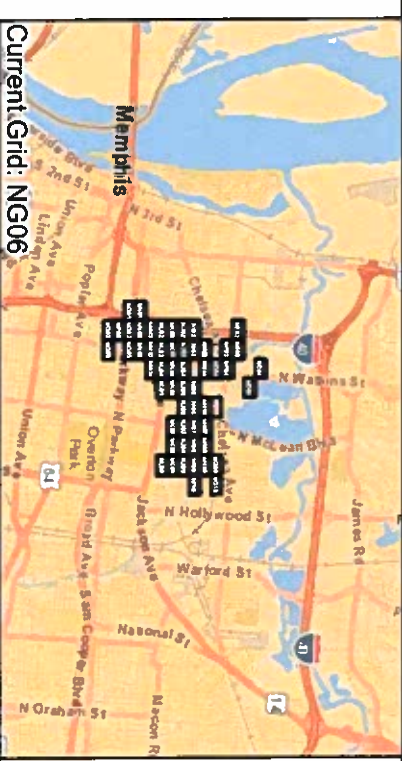


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (0)
 - ⊗ Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

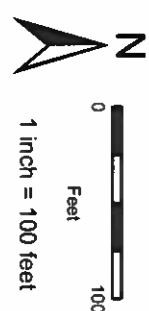


Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



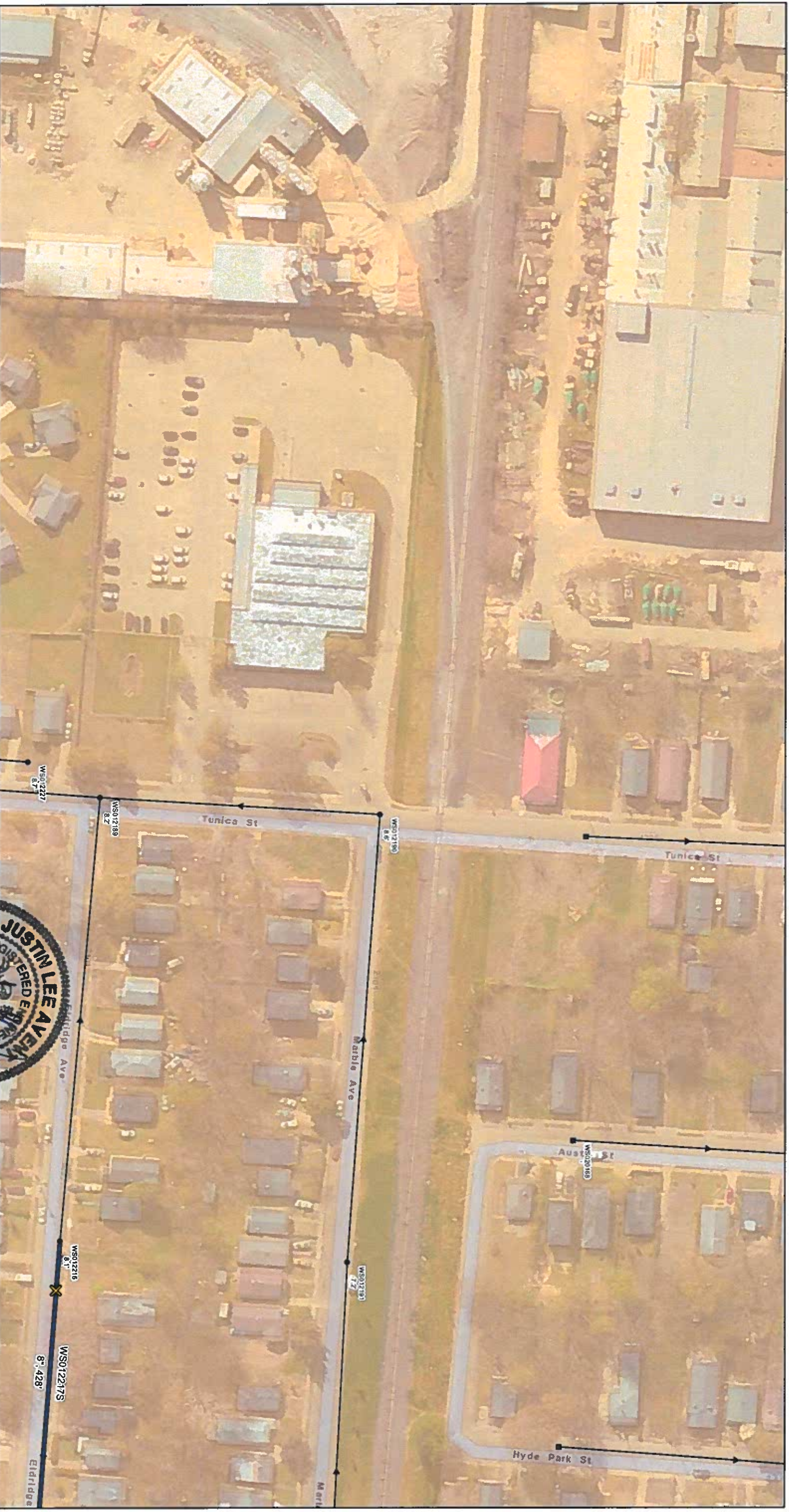
- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (0)
 - CLPP (1)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



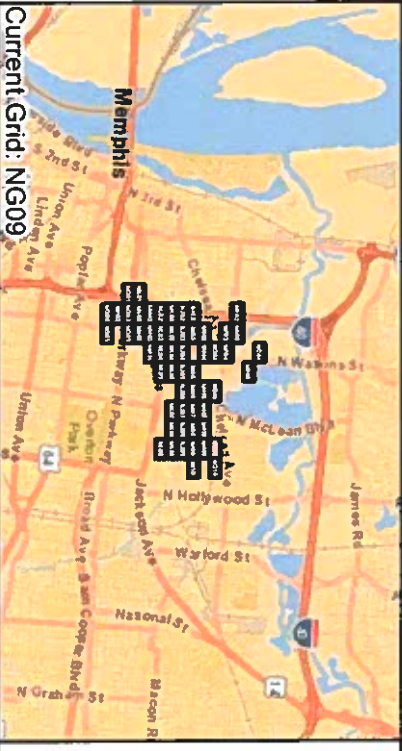
Group 1 Rehab Grid NG06

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NH08

NH09



Current Grid: NG09

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

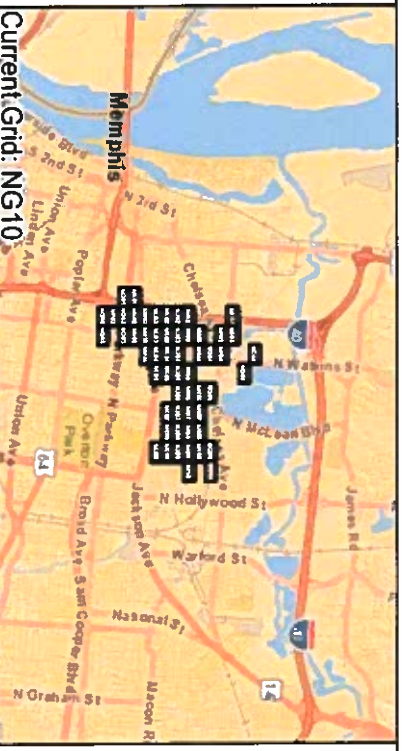
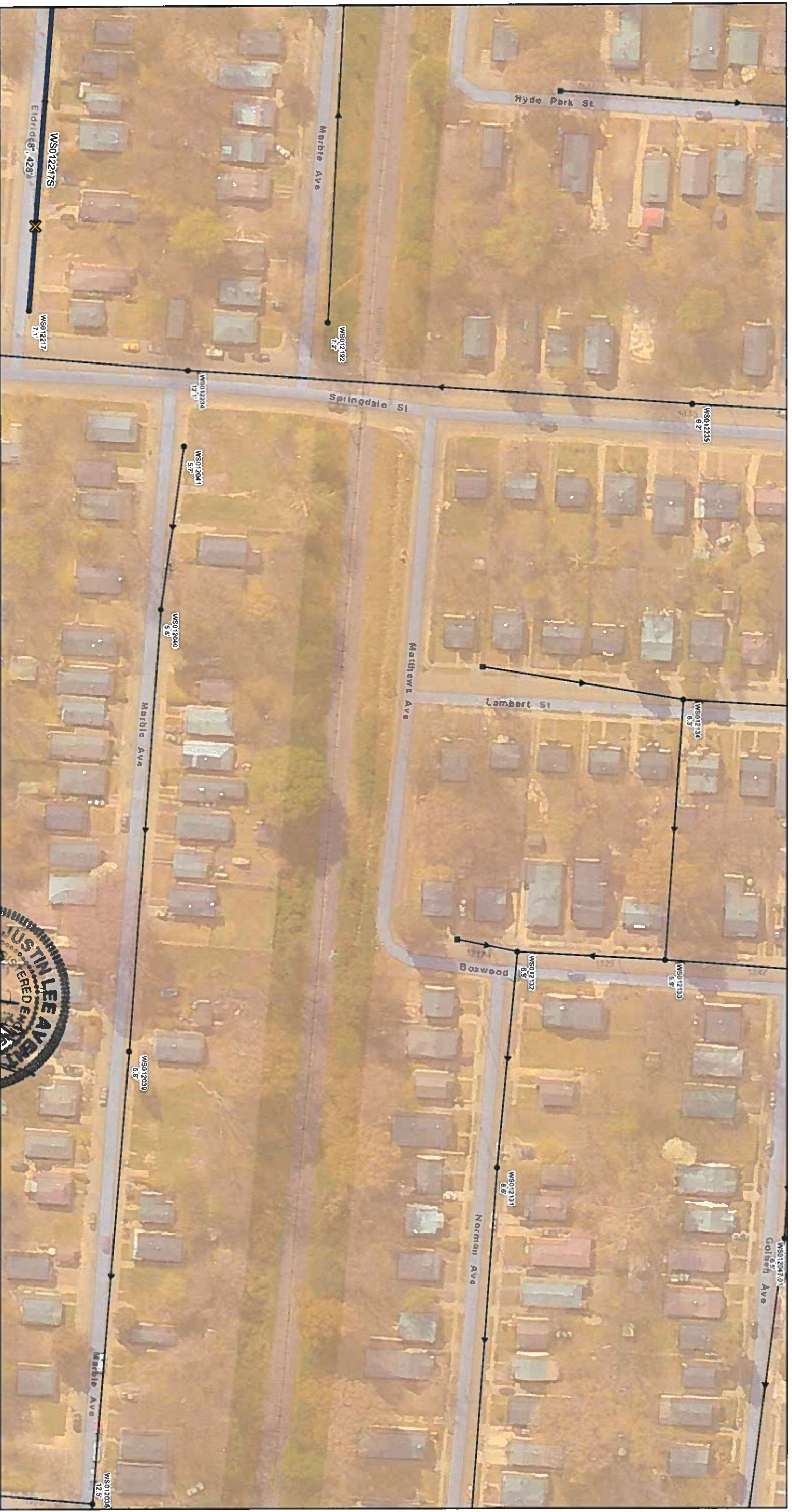
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

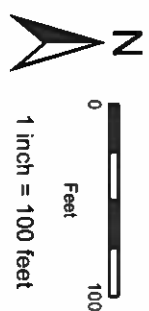


Group 1 Rehab Grid NG09

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

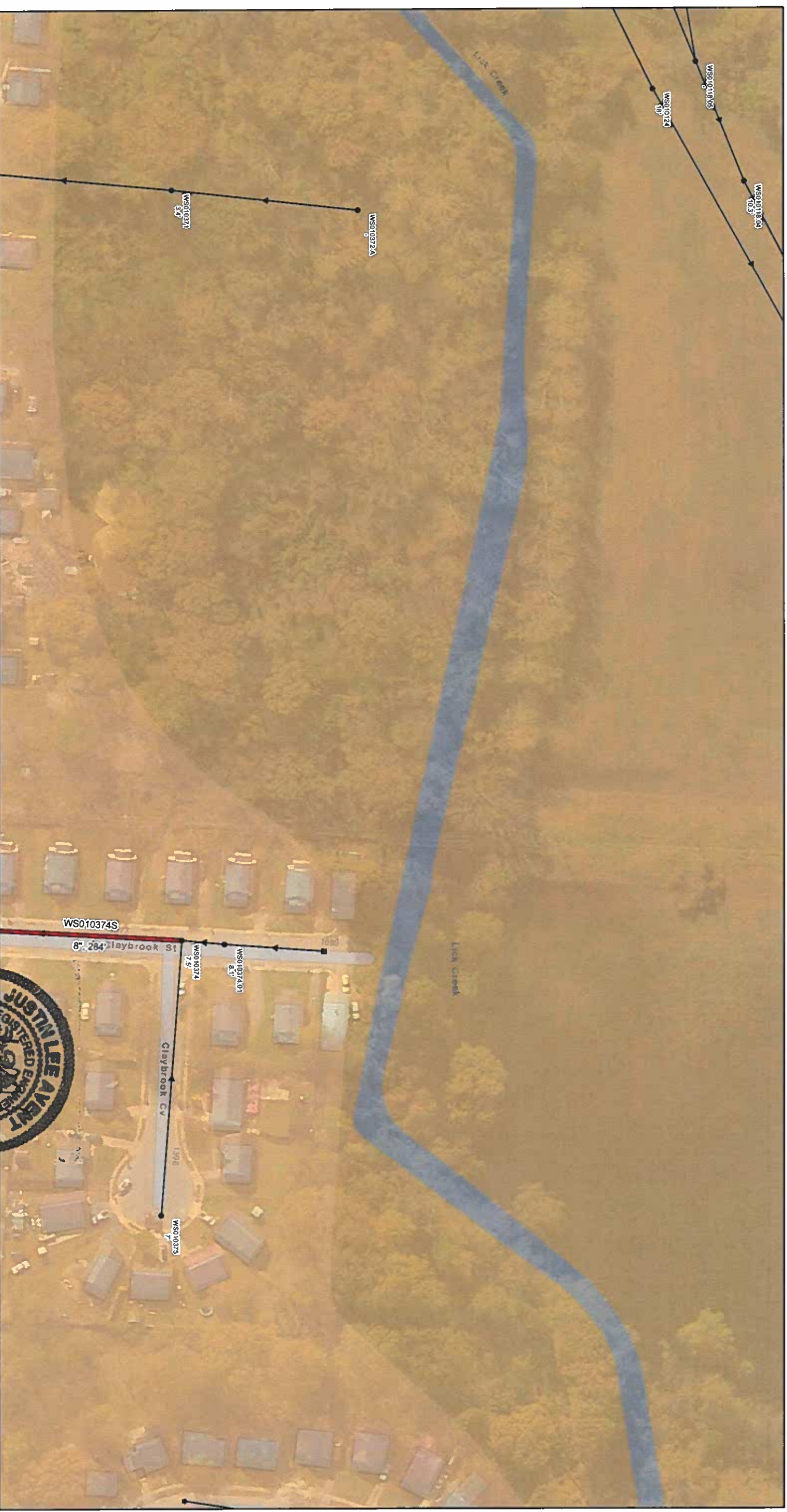


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (0)
 - ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NG10

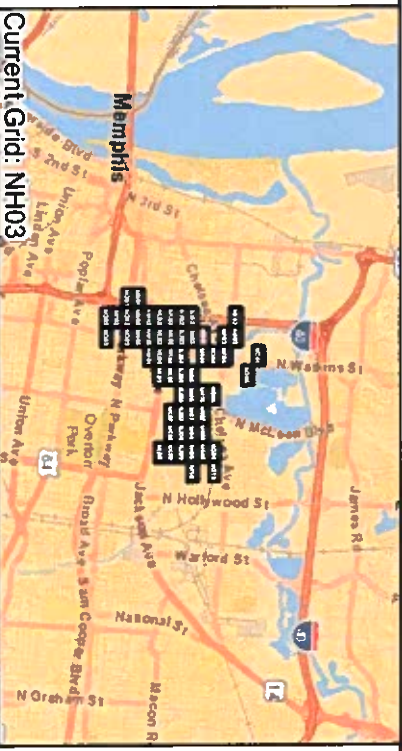
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



N102

N103

NH04



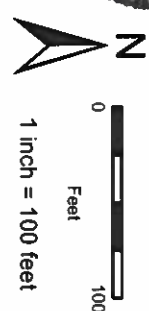
Current Grid: NH03

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

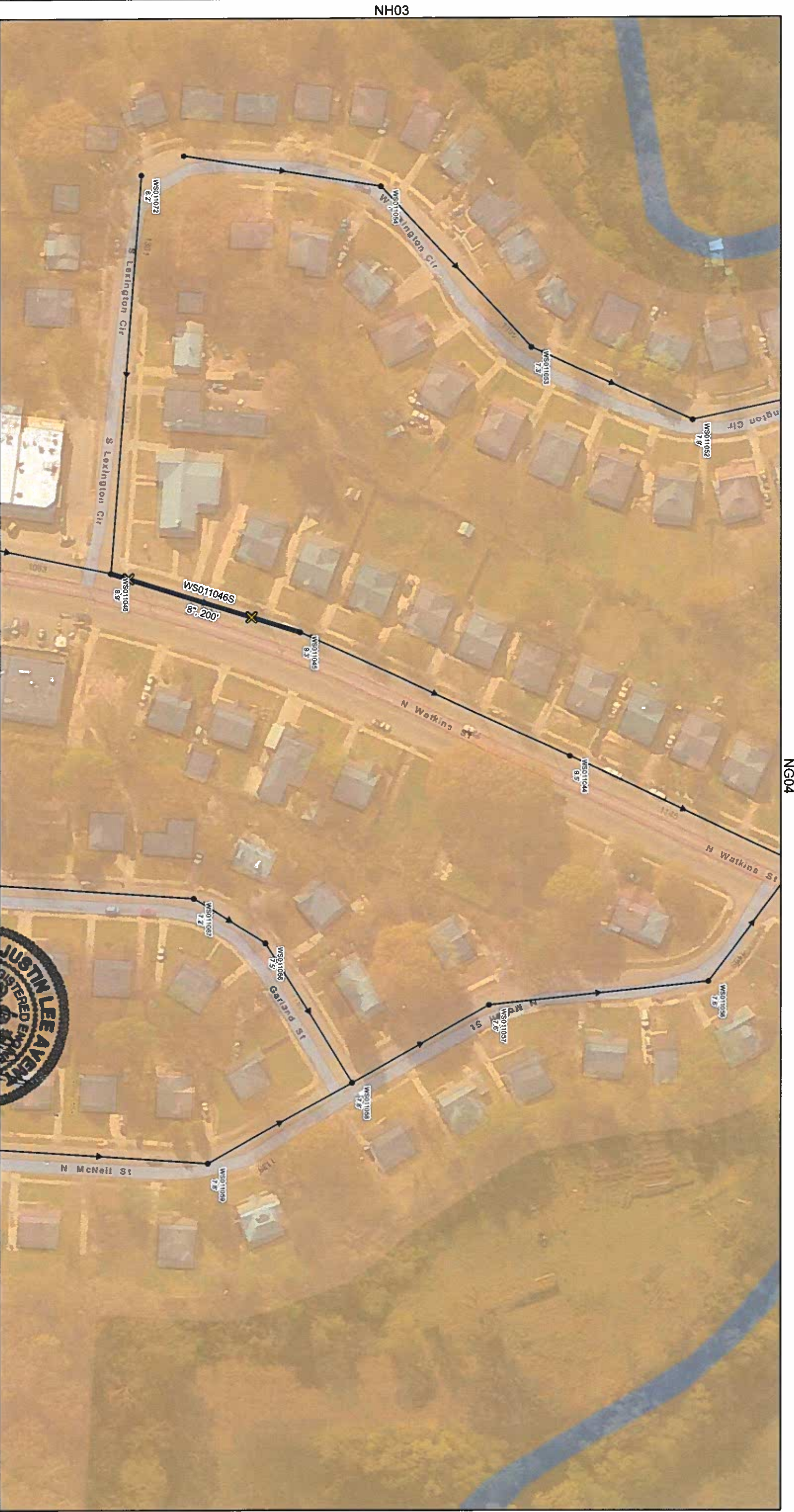
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NH03

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

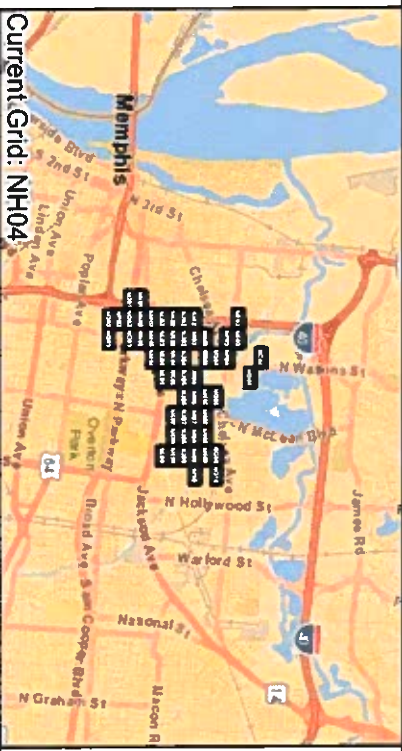


NH03

NG04

NI03

NI05



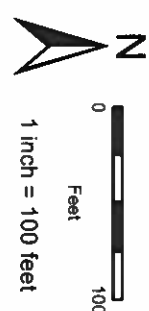
Current Grid: NH04

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

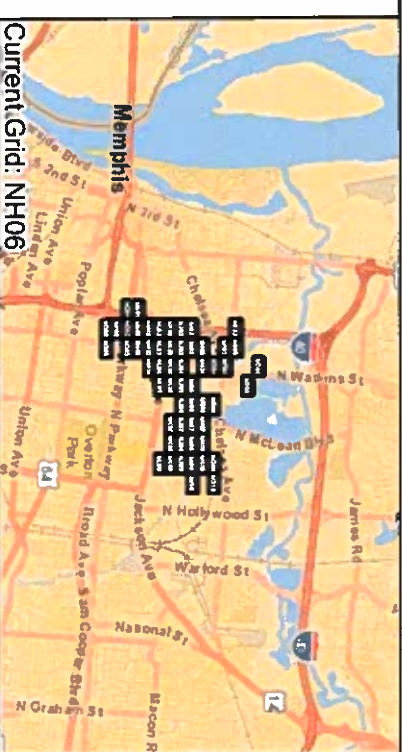
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NH04

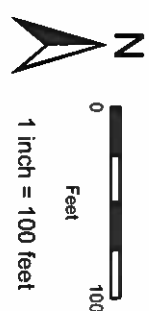
Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (1)
 - ⊗ Point Repair Location (1)

- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NH06

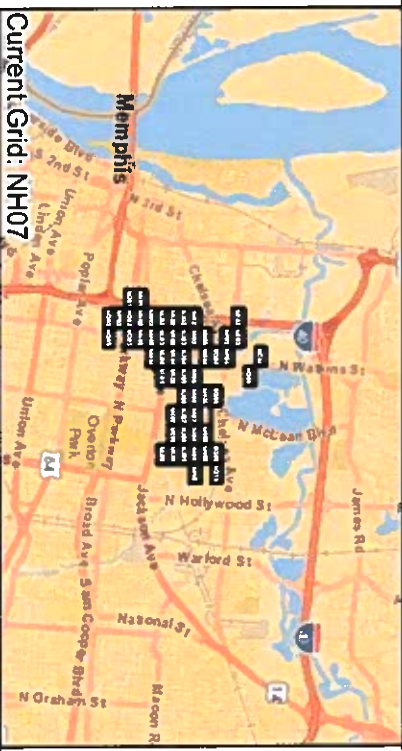
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NI06

NI07

NI08



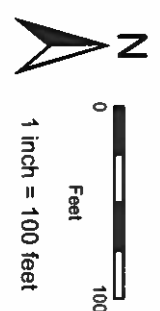
Current Grid: NH07

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (2)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

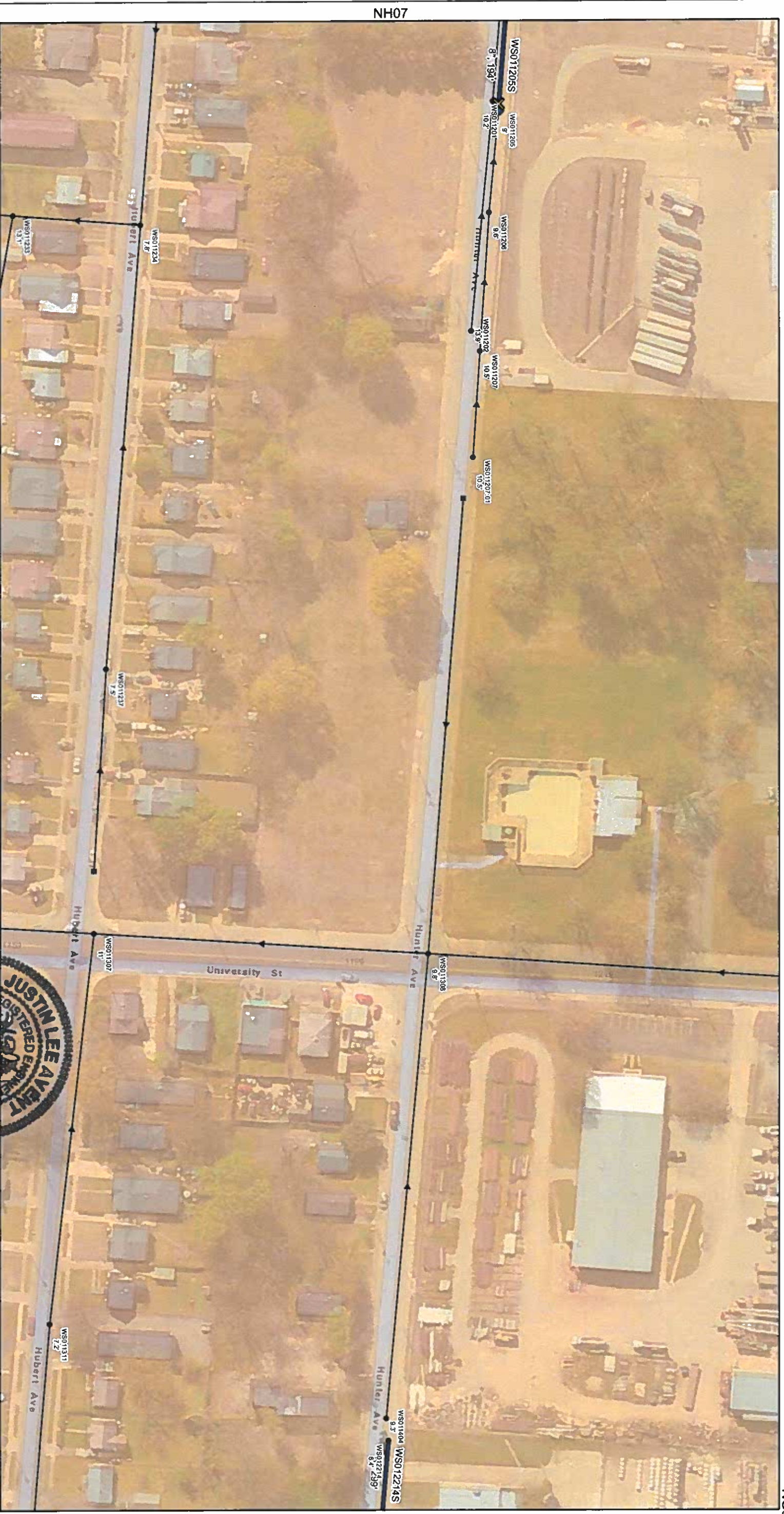
Pipe Rehab

- Point Repair Only (2)
- CIPP (0)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NH07

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NH07

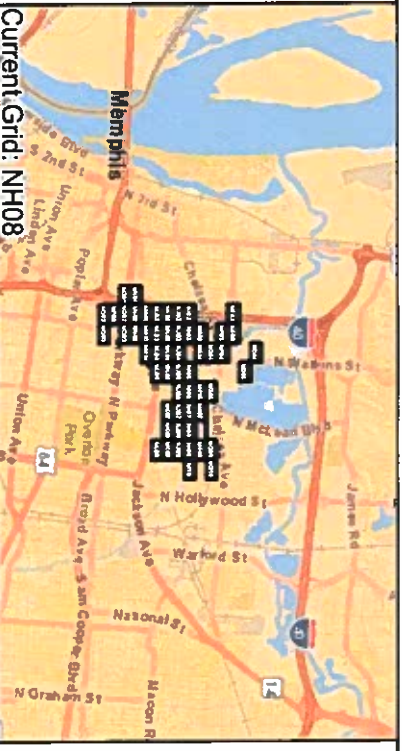
N107

N108

N109

60HN

NG09

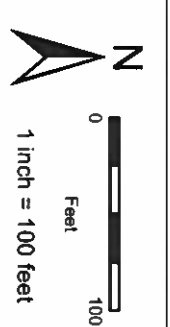


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

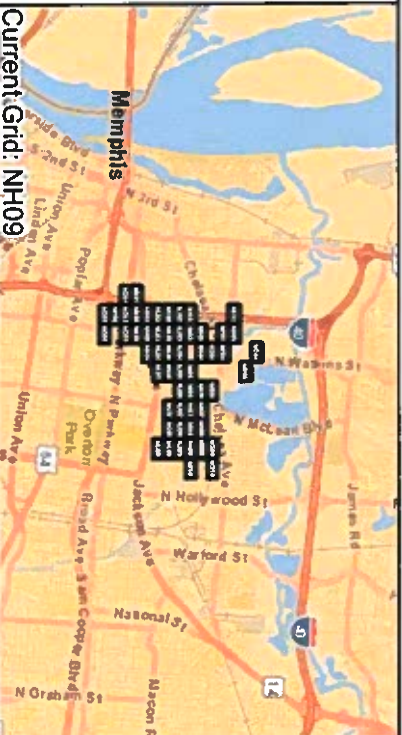
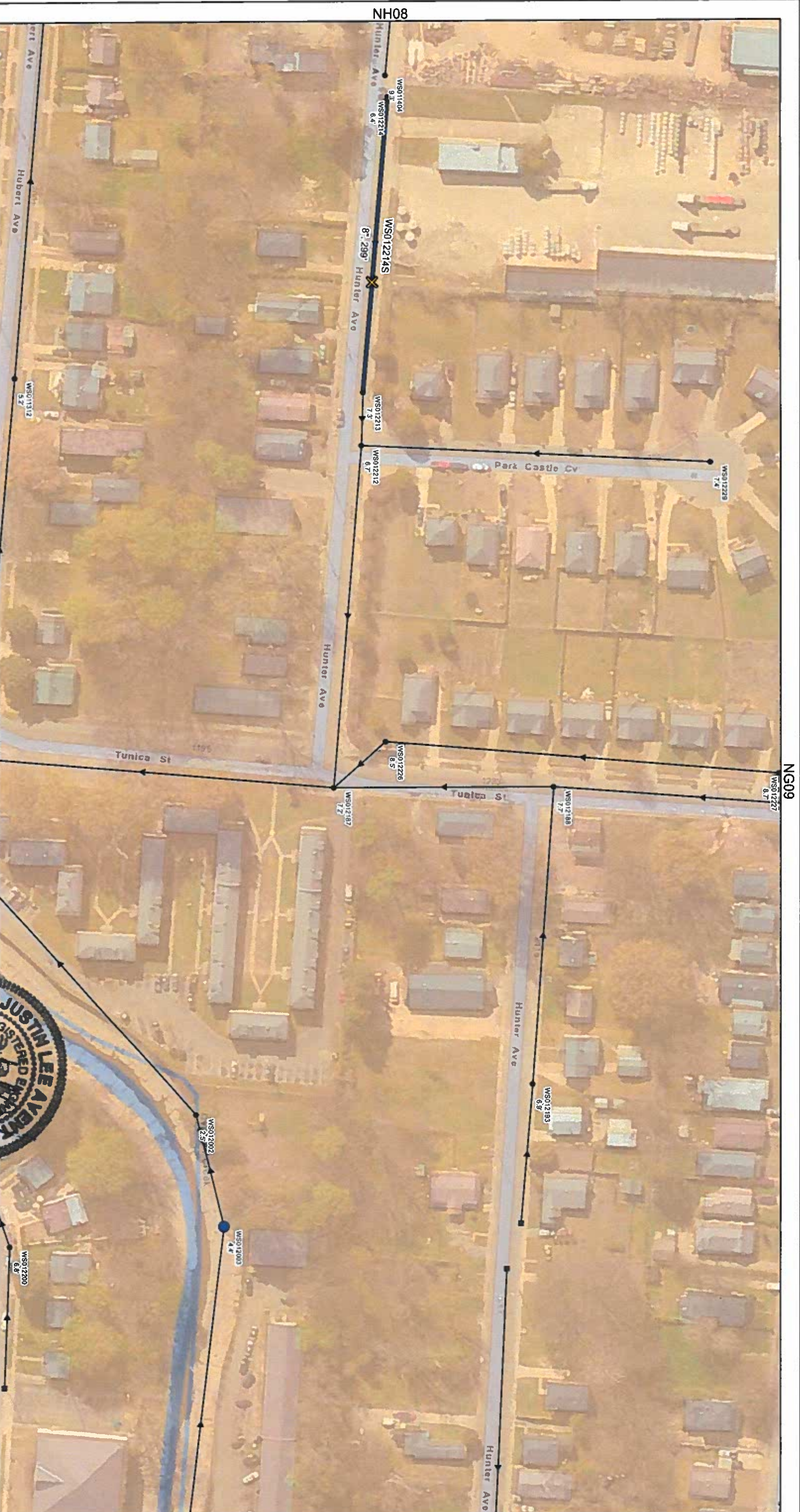
Pipe Rehab

- Point Repair Only (2)
- CIPP (0)
- ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NH08

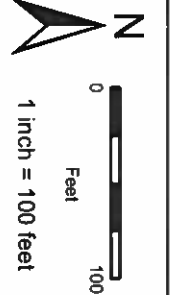
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (0)
 - Point Repair Location (1)

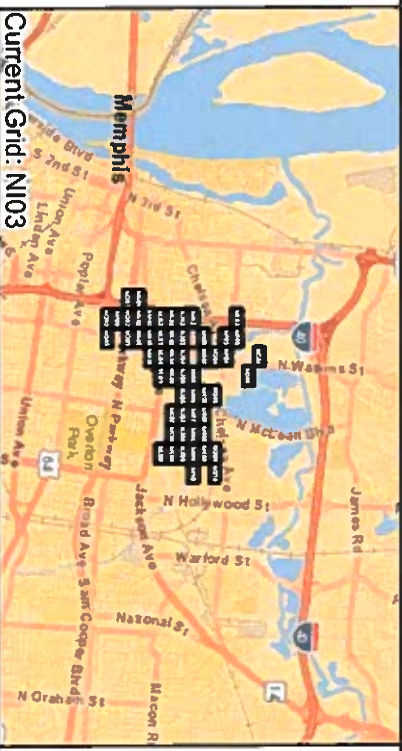
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NH09

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Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (X) (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (6)
 - Point Repair Location (6)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NI03

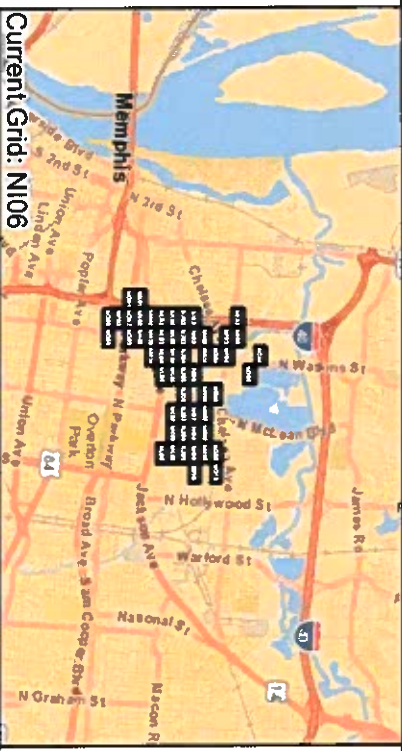
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NJ05
NJ06
NJ07

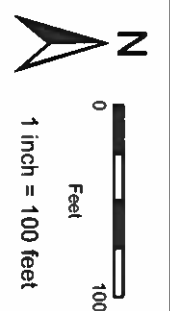
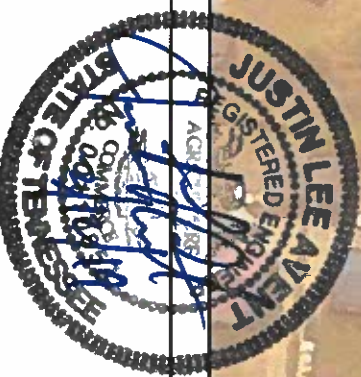
NI05
NI07

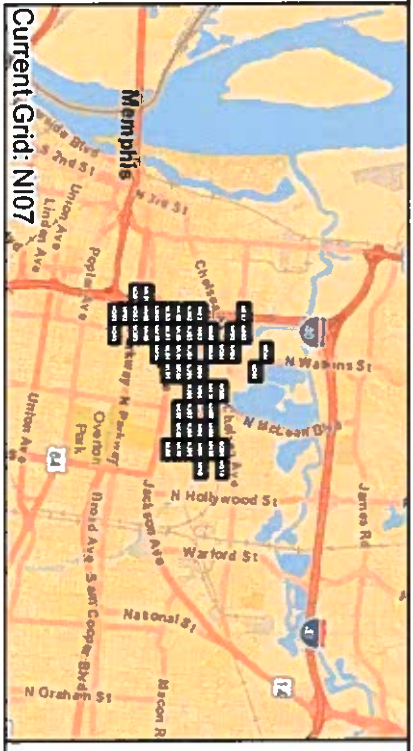
NH06
NH07



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (2)
 - Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



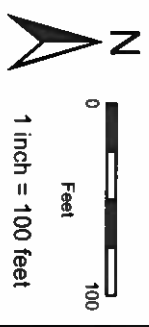


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

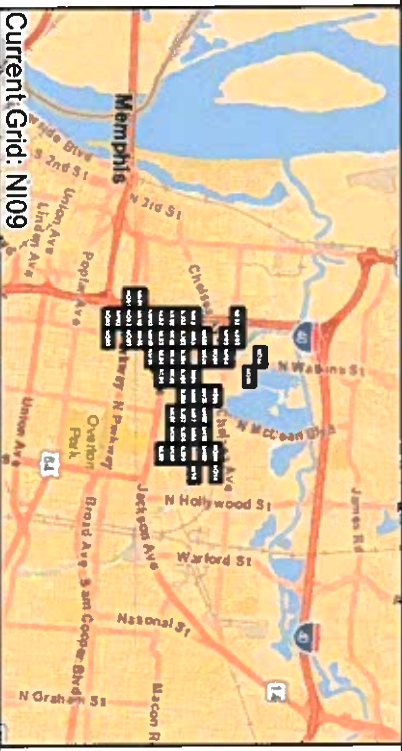
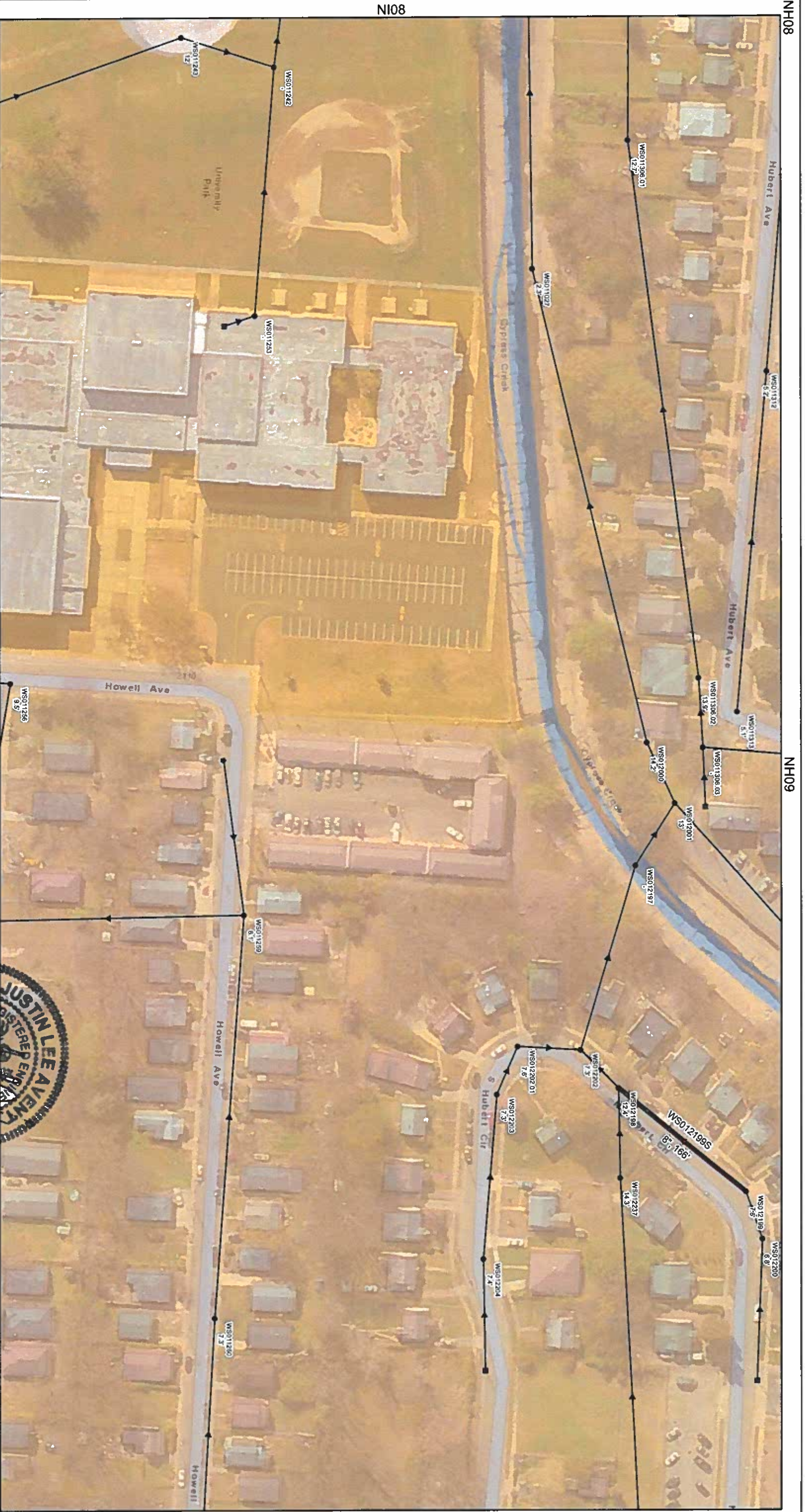
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid N107

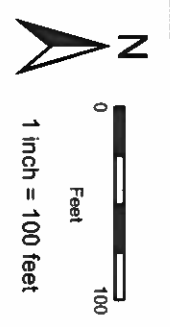
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (0)
 - CI/PP (1)
 - Point Repair Location (0)

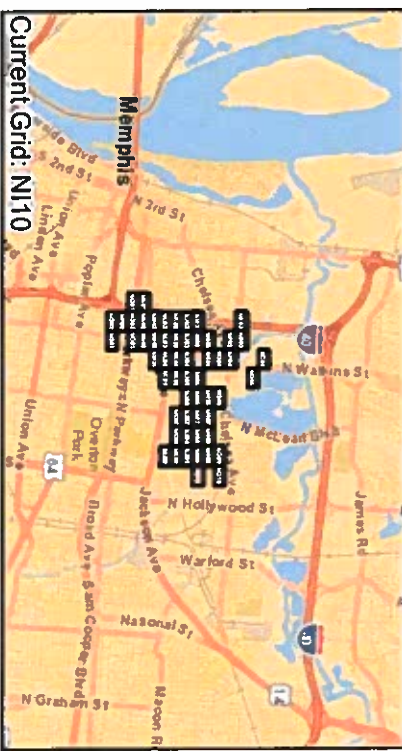
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid N109

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Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



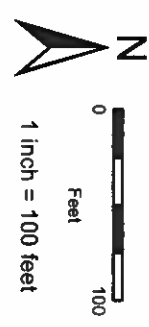
Current Grid: N110

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

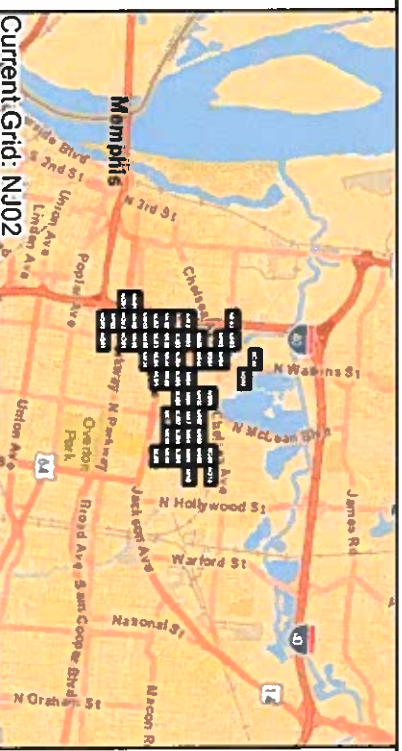
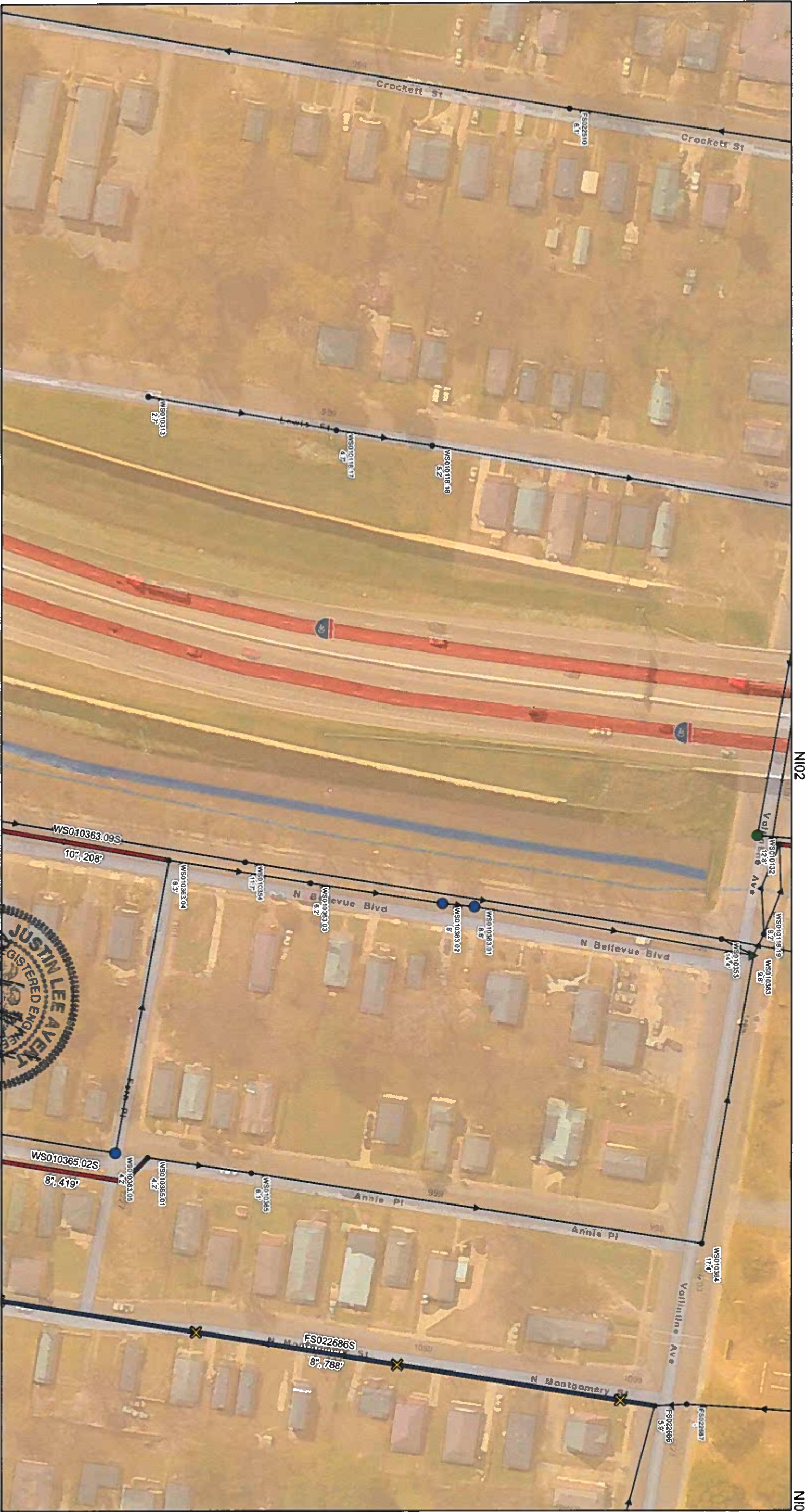
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



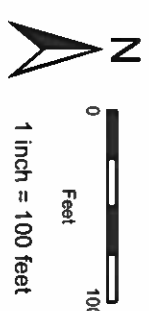
Group 1 Rehab Grid N110

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



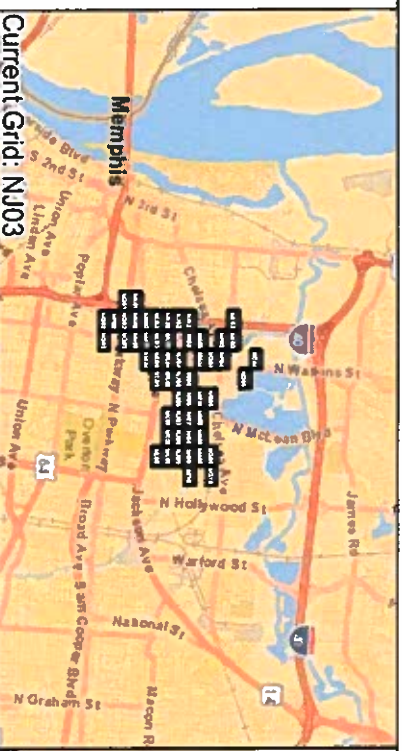
- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (3)
 - Repair Bench/Channel (1)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (3)
 - ✕ Point Repair Location (4)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NJ02

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

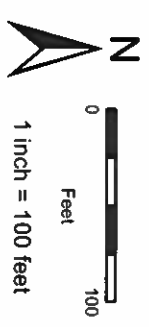
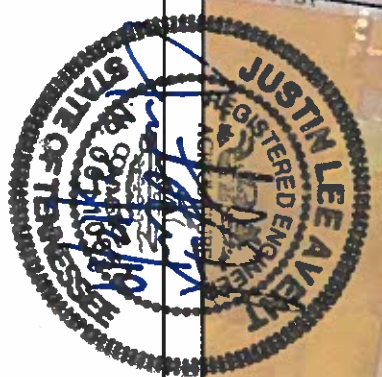


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

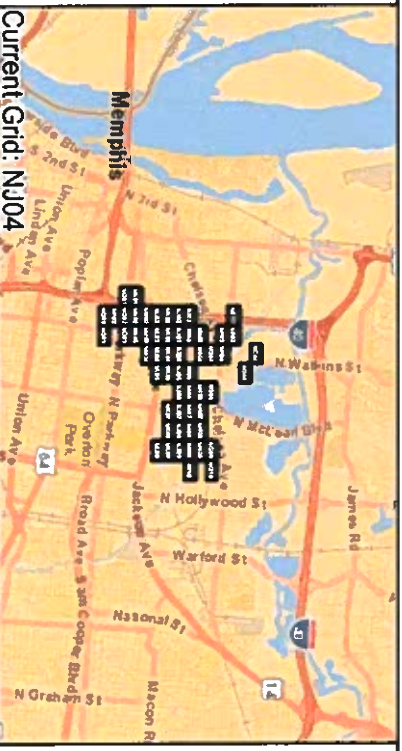
Pipe Rehab

- Point Repair Only (2)
- CIPP (1)
- ✕ Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravidy Main (Rehab By Others)
- Gravidy Main (No Rehab)



Group 1 Rehab Grid NJ03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



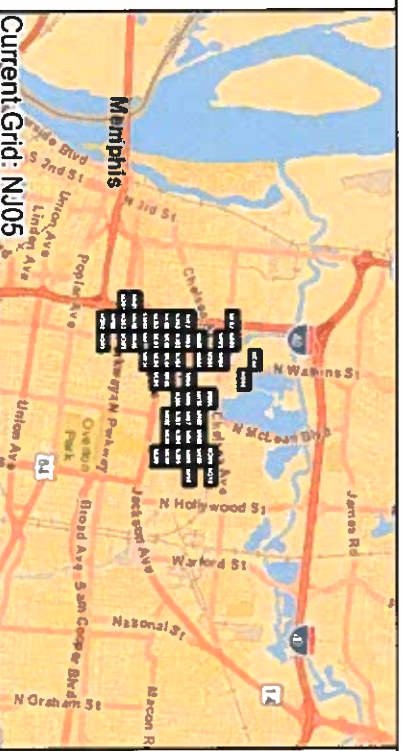
- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (1)
 - ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NJ04

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

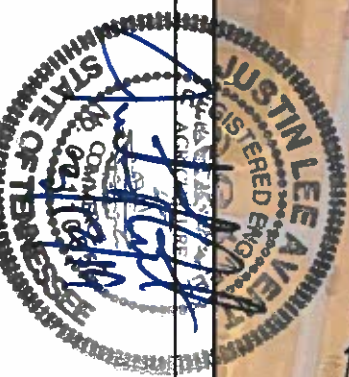


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

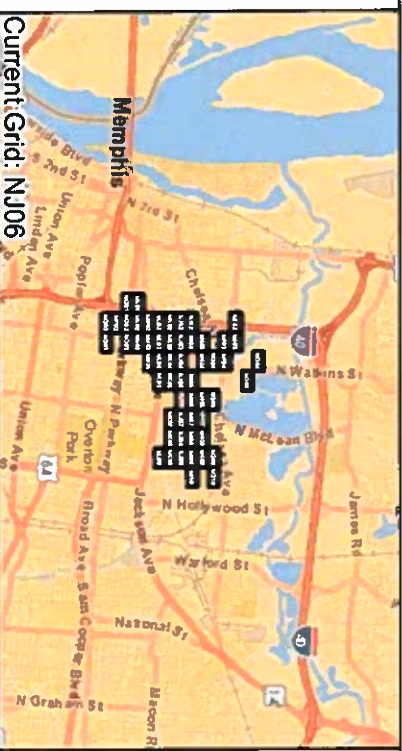
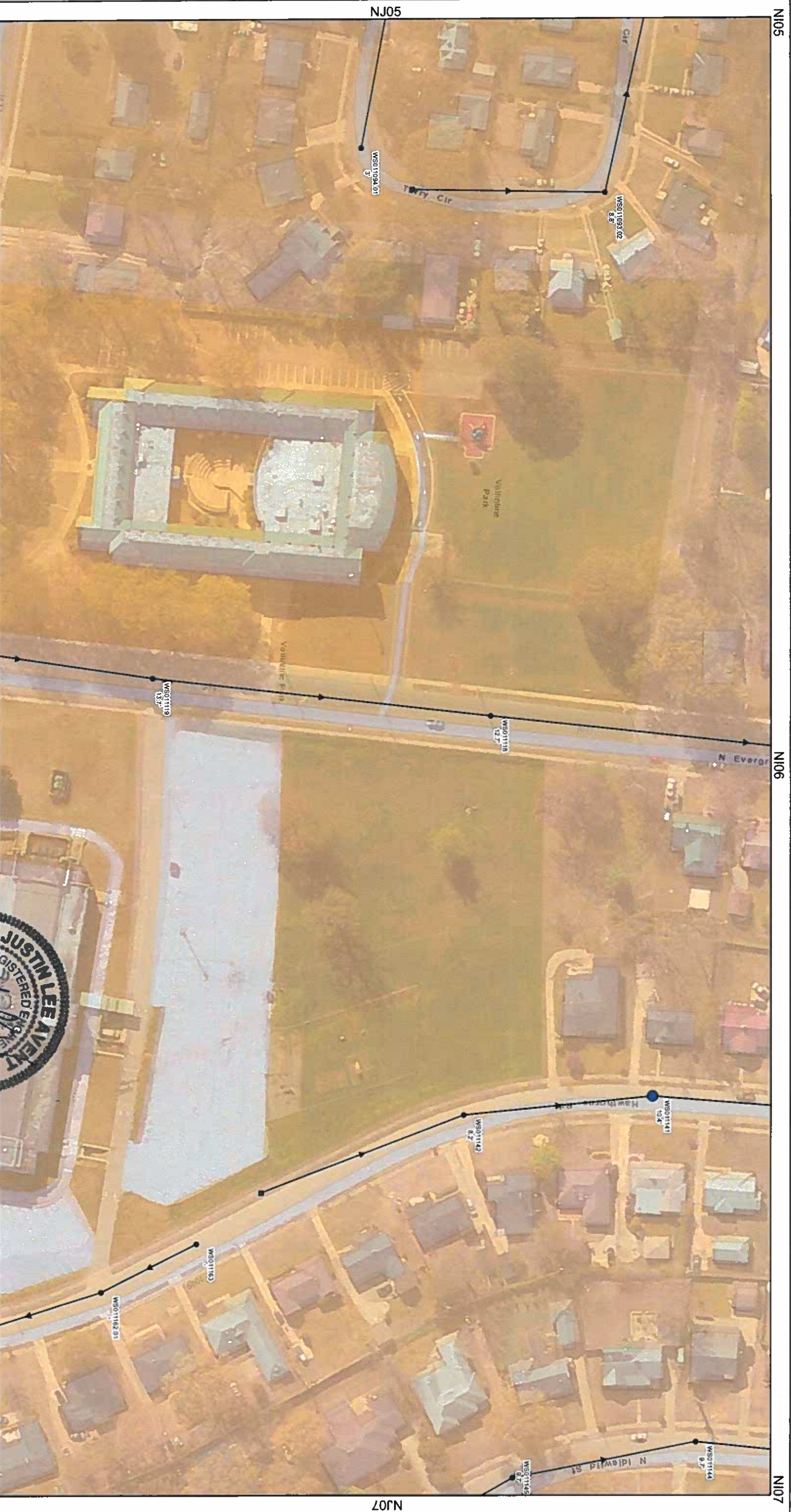
Pipe Rehab

- Point Repair Only (0)
- CIPP (2)
- Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravily Main (Rehab By Others)
- Gravily Main (No Rehab)



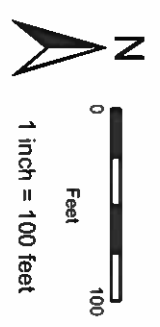
Group 1 Rehab Grid NJ05

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

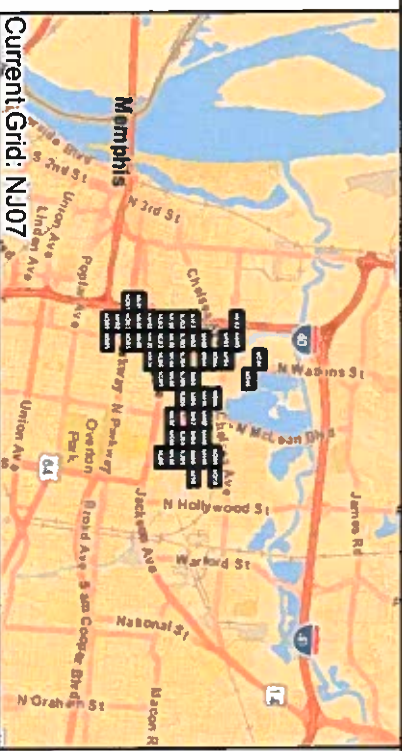
- Pipe Rehab**
- Point Repair Only (0)
 - CI/PP (0)
 - Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



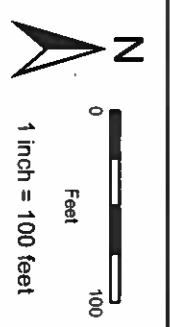
Group 1 Rehab Grid NJ06

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Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



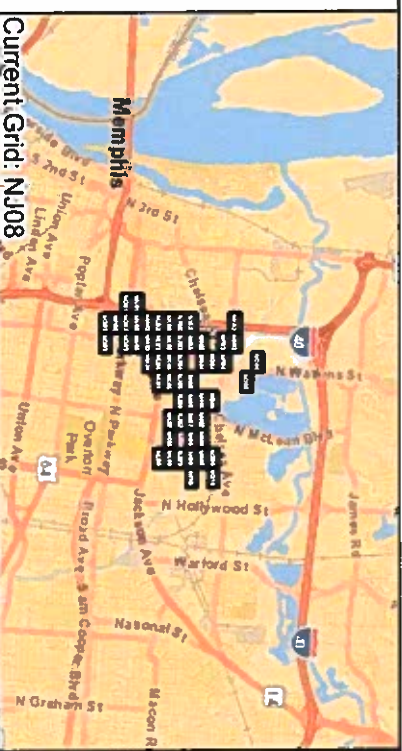
- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CI/PP (0)
 - Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



Group 1 Rehab Grid NJ07

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Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

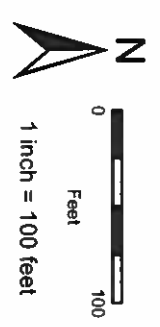


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

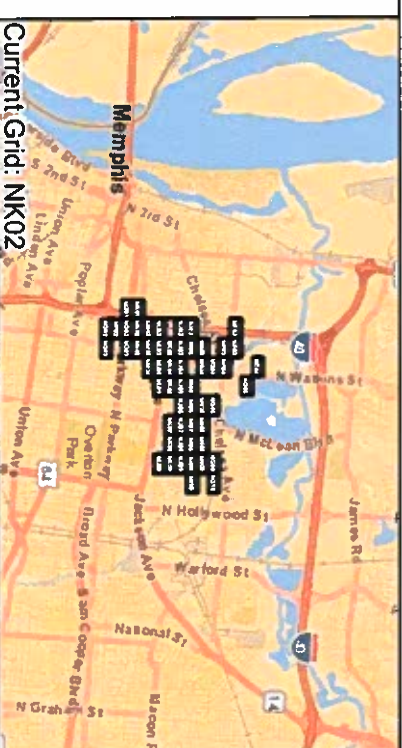
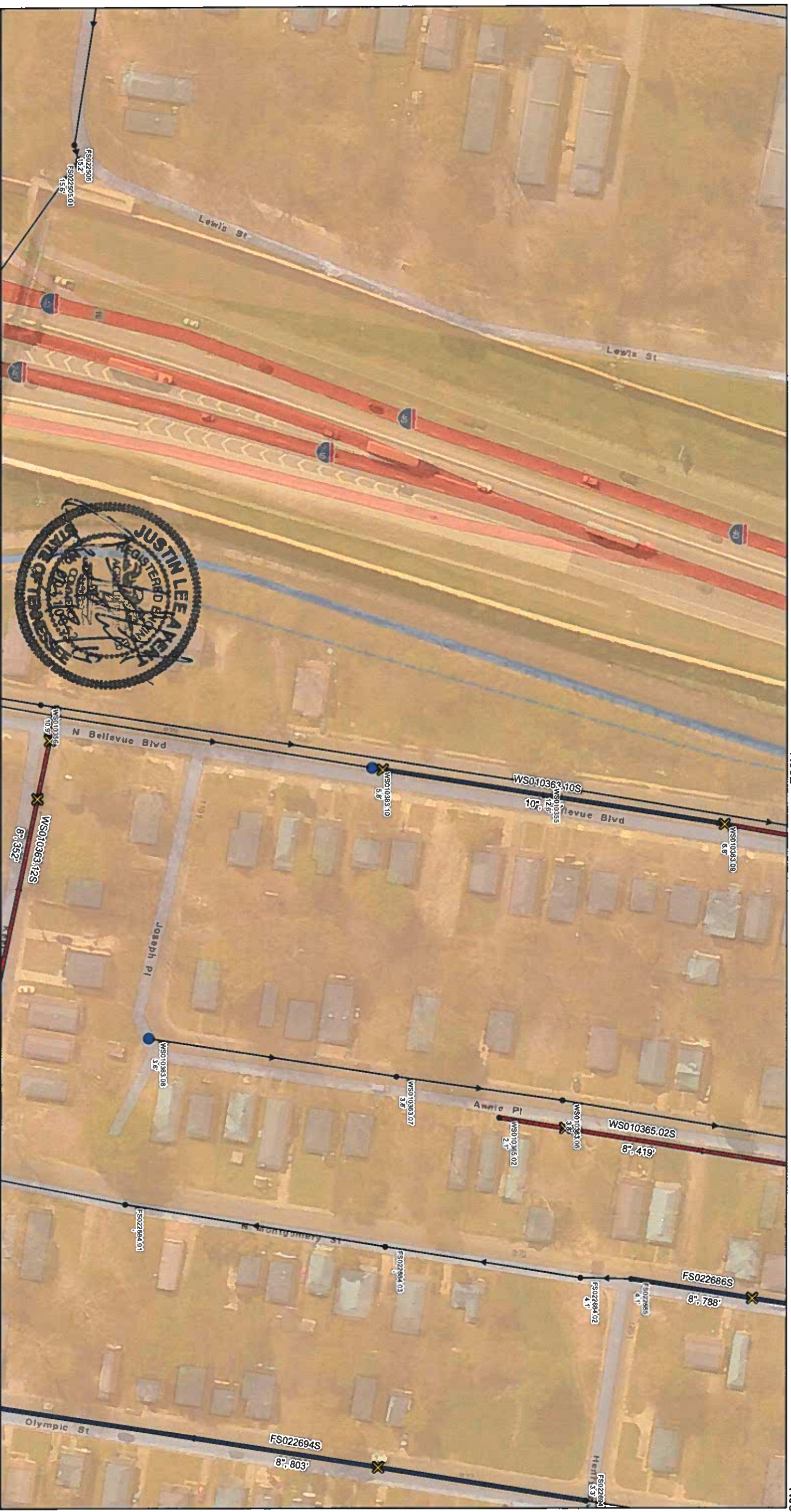
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravily Main (Rehab By Others)
- Gravily Main (No Rehab)



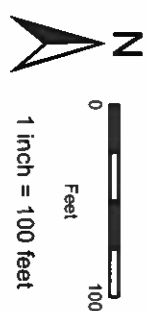
Group 1 Rehab Grid NJ08

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



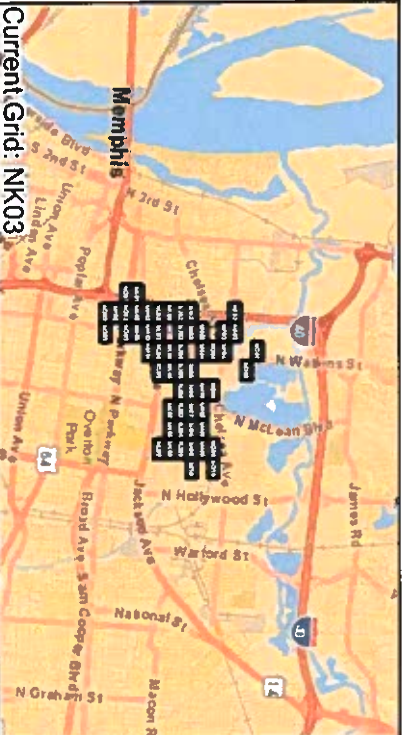
- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (3)
 - CIPP (3)
 - ✕ Point Repair Location (7)
- Install New Manhole (Rehab By Others)
 Manhole (Rehab By Others)
 Manhole (No Rehab)
 Gravity Main (Rehab By Others)
 Gravity Main (No Rehab)



Group 1 Rehab Grid NK02

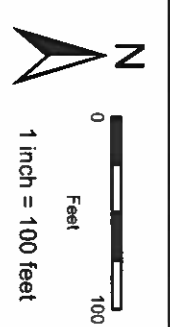
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

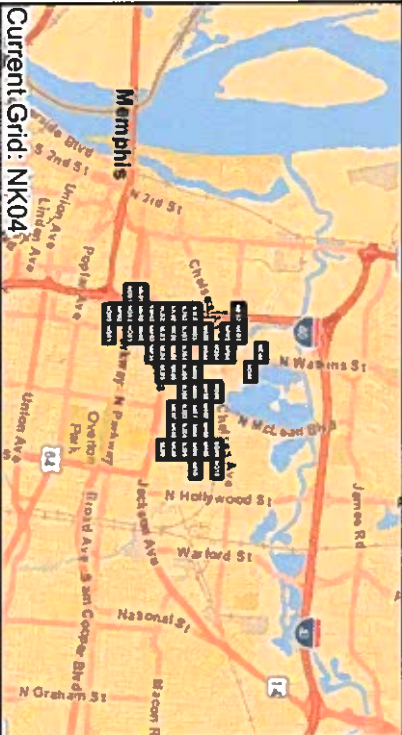
- ### Pipe Rehab
- Point Repair Only (6)
 - CIPP (1)
 - Point Repair Location (4)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Group 1 Rehab Grid NK03

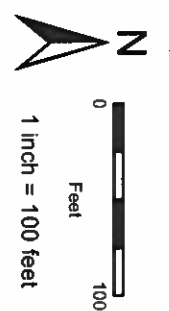
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- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (2)
 - CIPP (1)
 - Point Repair Location (2)

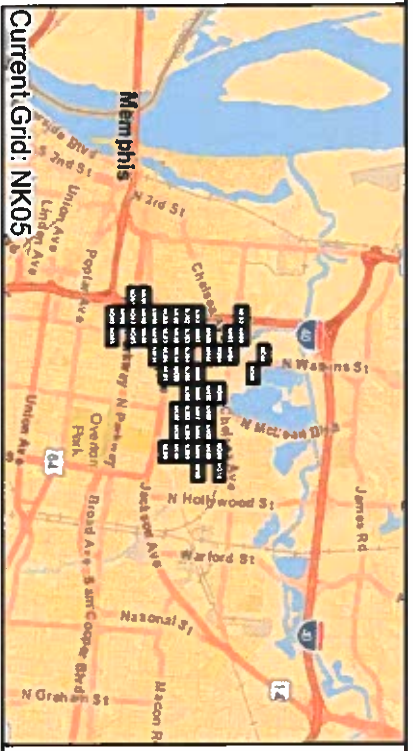
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NK04

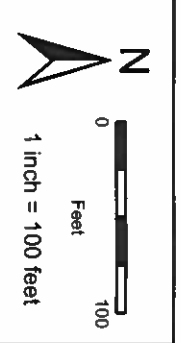
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Note: Recorded manhole rim to invert measurements are indicated below the Facility I.D. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

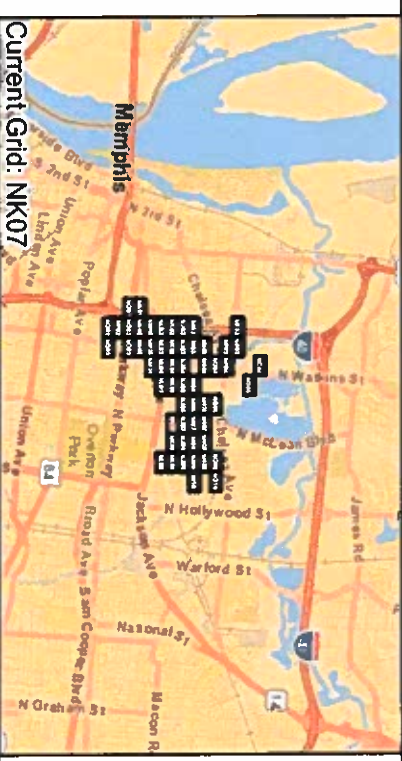
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (1)
 - ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)**
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NK05

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

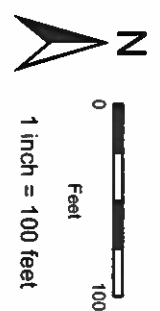


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravidy Main (Rehab By Others)
- Gravidy Main (No Rehab)



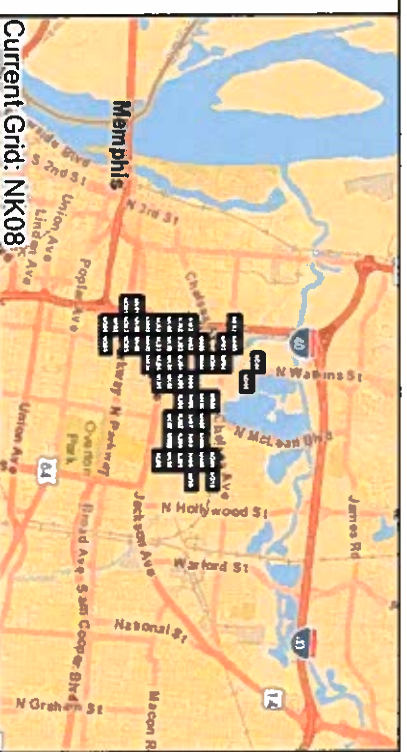
Group 1 Rehab Grid NK07

Note: Recorded manhole rim to invert measurements are indicated below the Facility I.D. Point Repair locations are approximate.



NK07

NK09



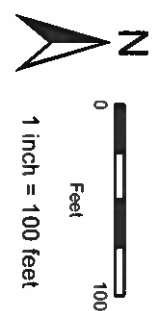
Current Grid: NK08

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

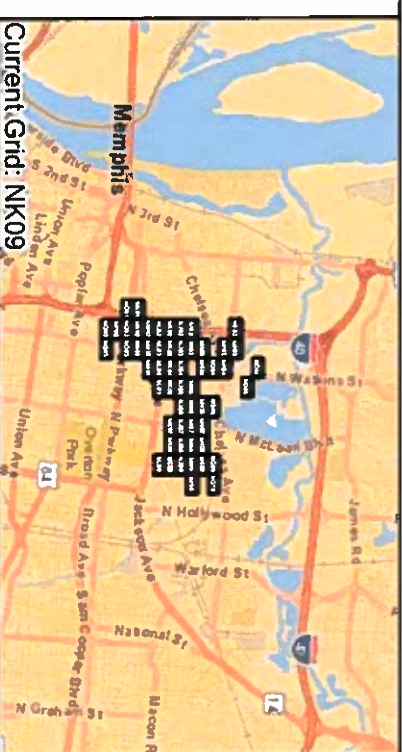
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



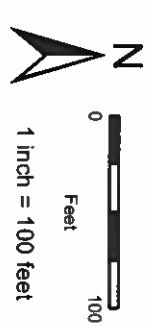
Group 1 Rehab Grid NK08

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



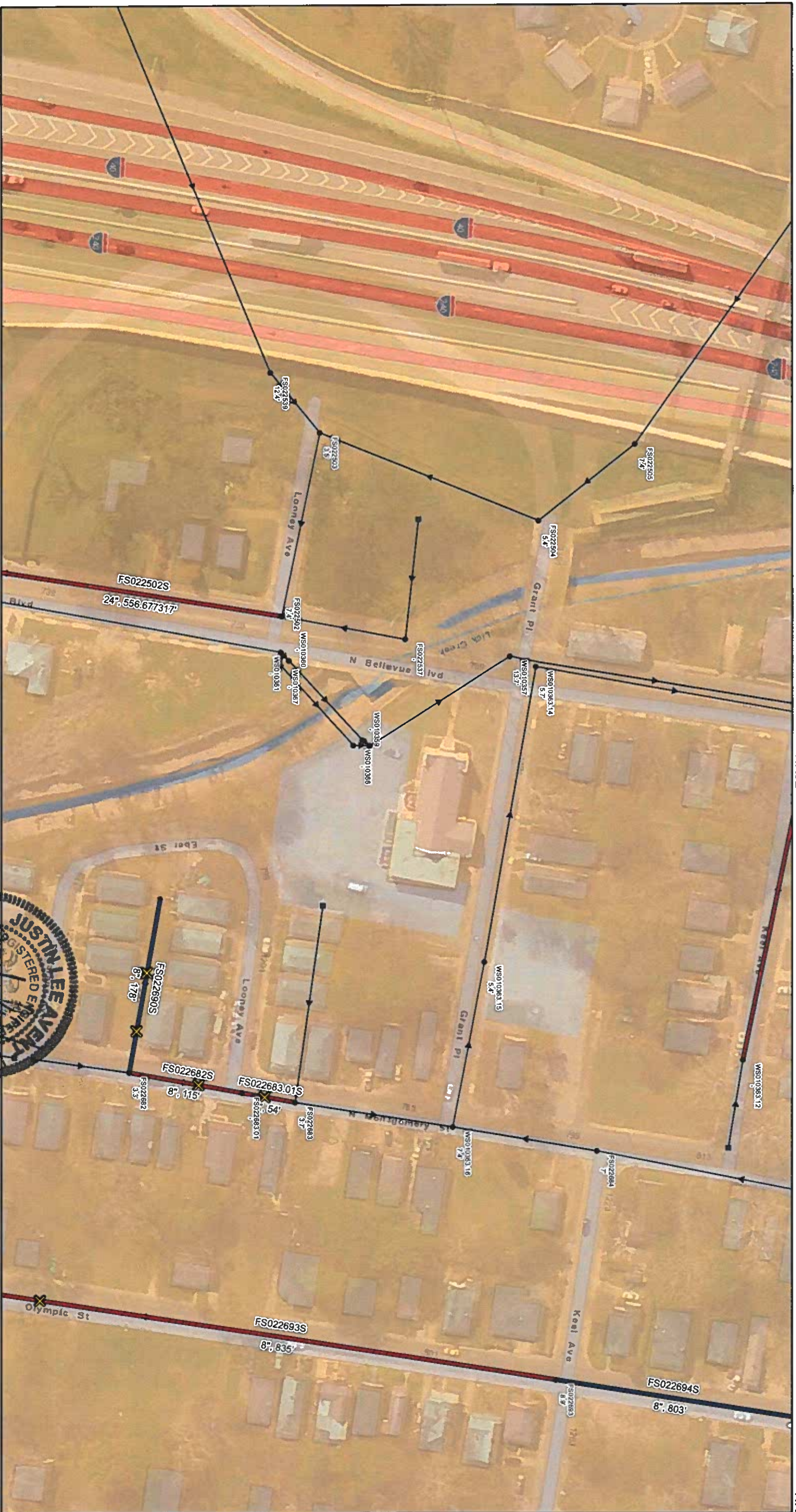
- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (1)
 - ⊗ Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NK09

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NM02

NM03

NK02

NK03

NL03

Manhole Rehab

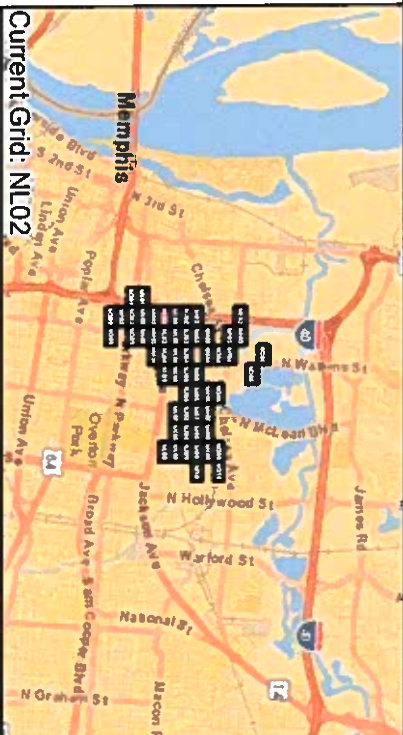
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (2)
- CIPP (5)
- ⊗ Point Repair Location (6)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

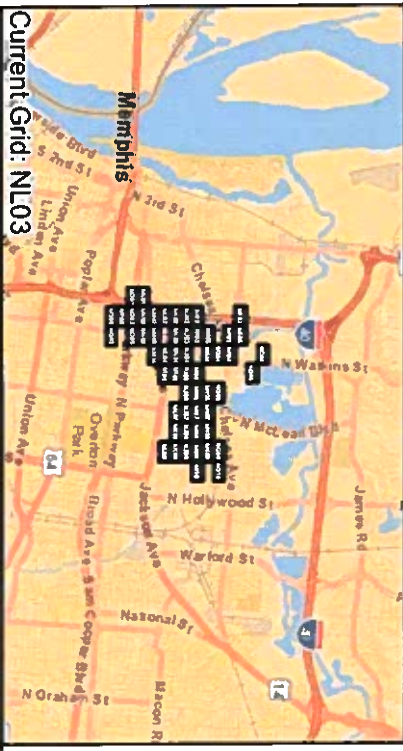


Group 1 Rehab Grid NL02

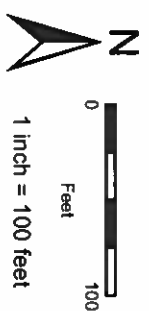


Current Grid: NL02

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

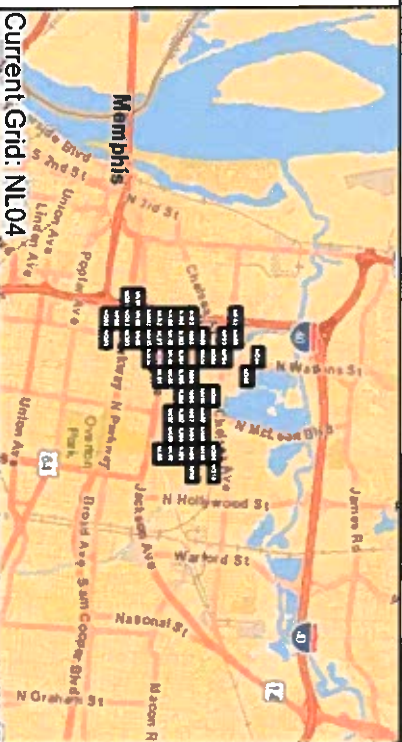


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (8)
 - CIPP (4)
 - ⊗ Point Repair Location (12)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravelly Main (Rehab By Others)
 - Gravelly Main (No Rehab)

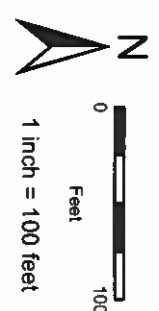


Group 1 Rehab Grid NL03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

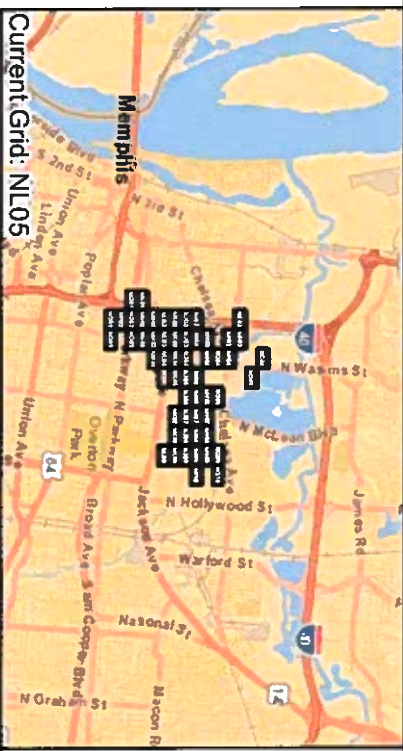
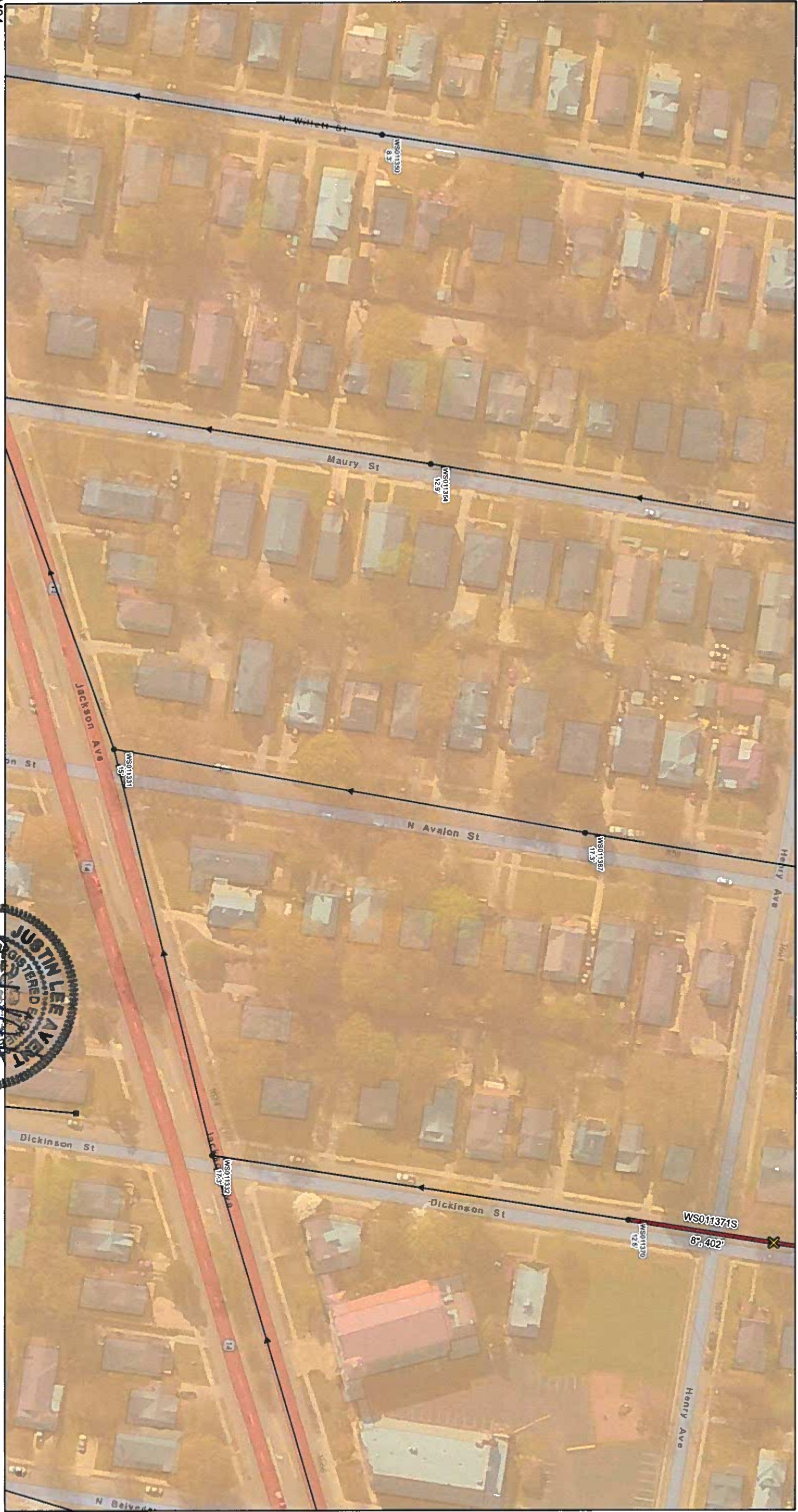


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (2)
 - CIPP (1)
 - ⊗ Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NL04

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



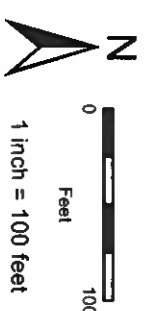
Current Grid: NL05

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

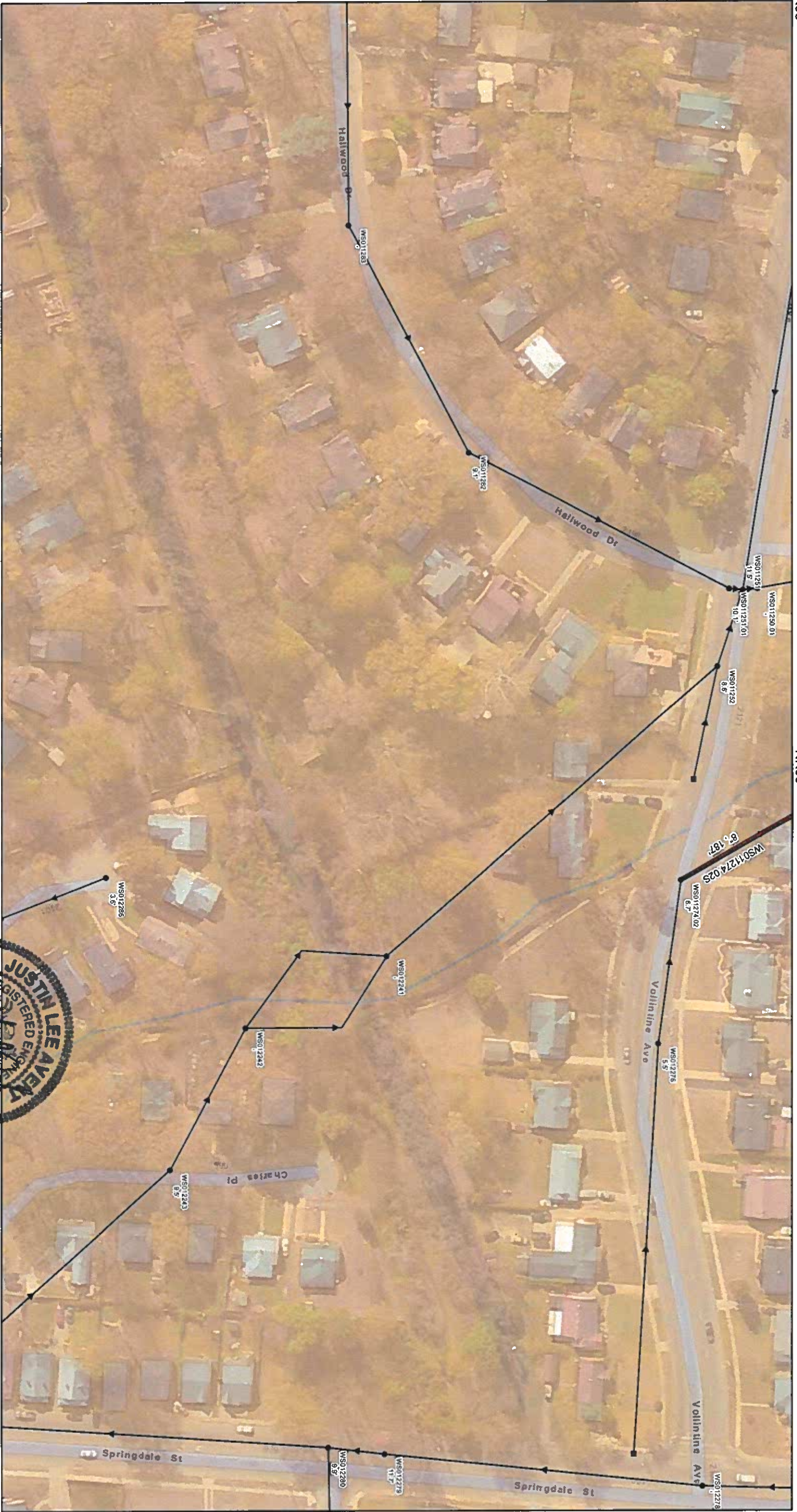
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- X Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NL05

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

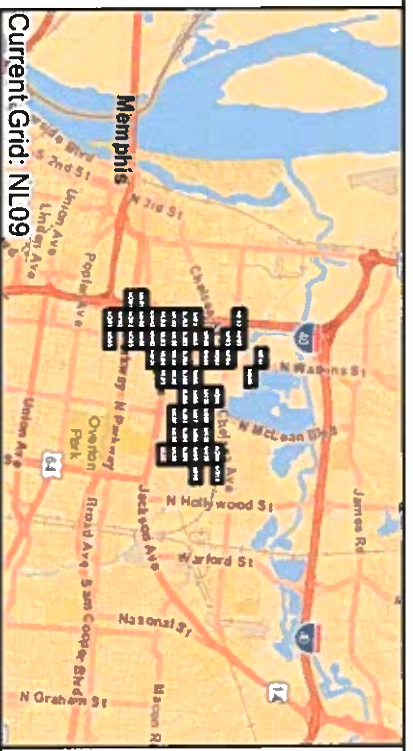


Manhole Rehab

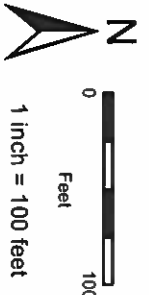
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

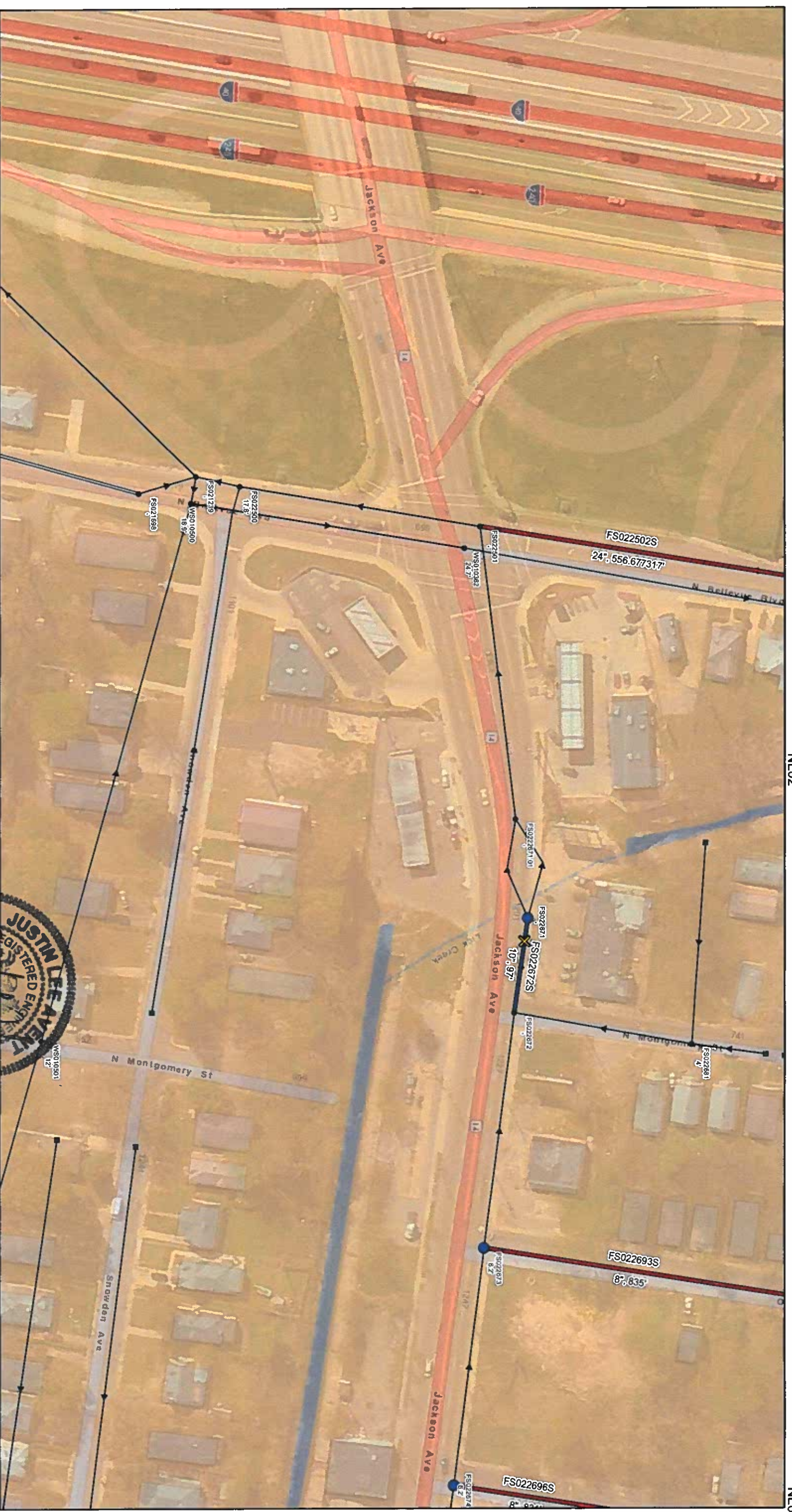


Current Grid: NL09



Group 1 Rehab Grid NL09

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



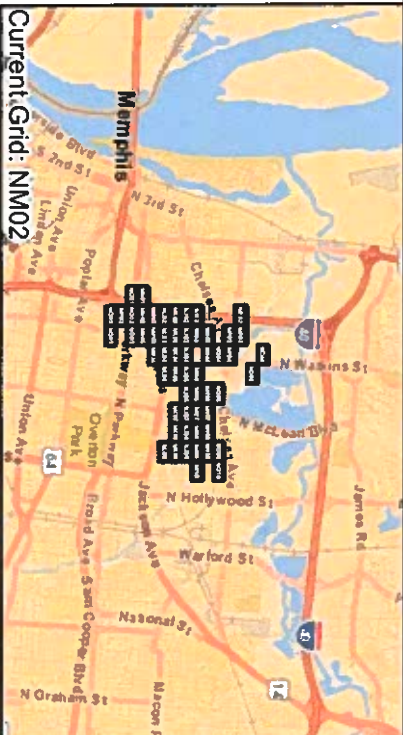
NN01

NN02

NN03

NL02

NL03



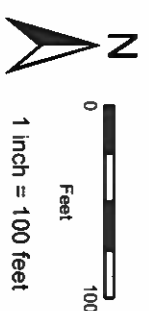
Current Grid: NM02

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

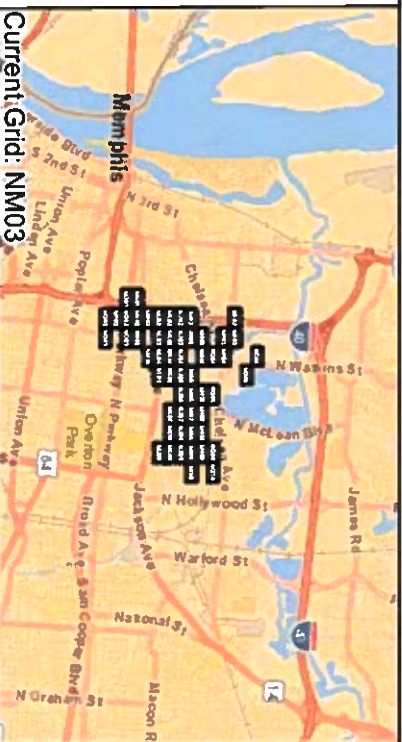
Pipe Rehab

- Point Repair Only (1)
- CIPP (3)
- ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NM02

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Current Grid: NM03

Manhole Rehab

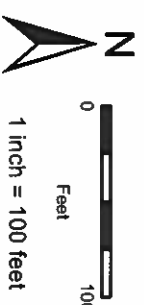
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (3)
- ✕ Point Repair Location (1)

Install New Manhole (Rehab By Others)

- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

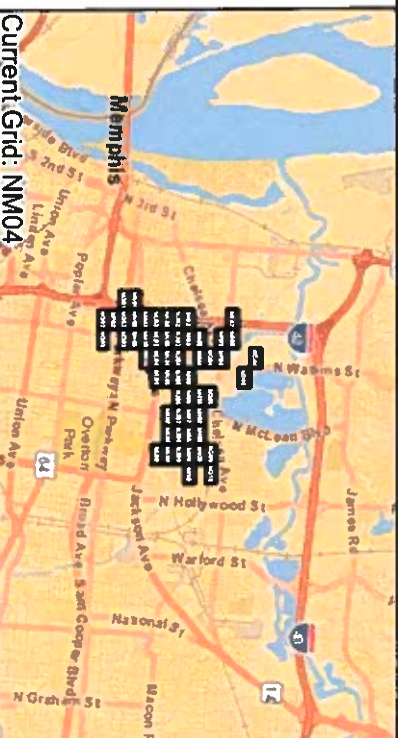


Group 1 Rehab Grid NM03



NM03

NN03



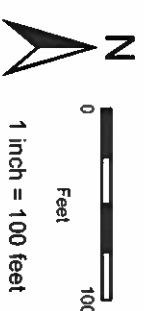
Current Grid: NM04

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

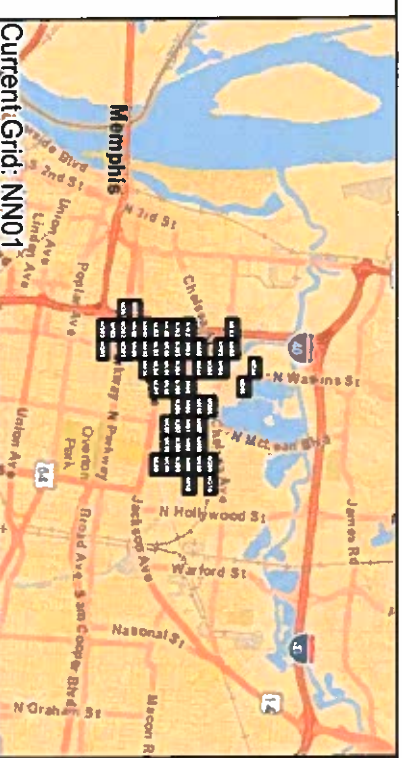
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NM04

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



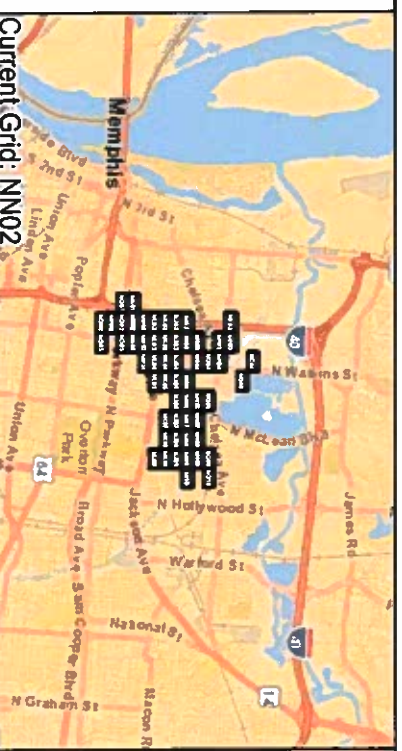
- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (0)
 - ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
 ○ Manhole (Rehab By Others)
 ● Manhole (No Rehab)
 — Gravidly Main (Rehab By Others)
 — Gravidly Main (No Rehab)



Group 1 Rehab Grid NN01

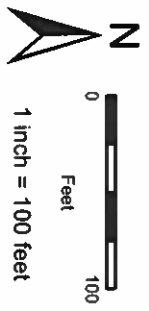
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (0)
 - Point Repair Location (1)

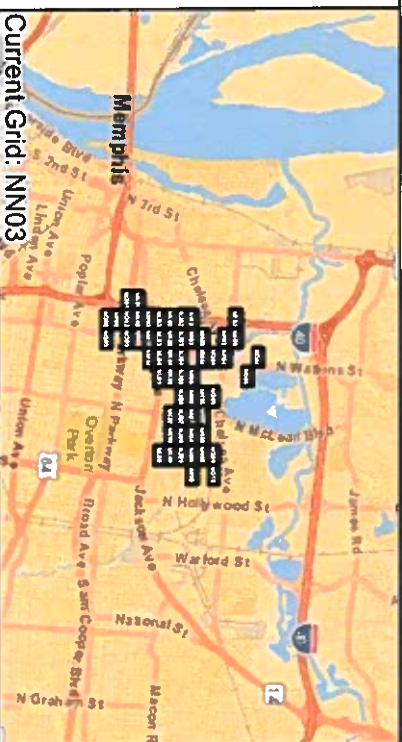
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravily Main (Rehab By Others)
- Gravily Main (No Rehab)



Group 1 Rehab Grid NN02

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



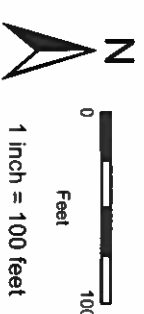
Current Grid: NN03

Manhole Rehab

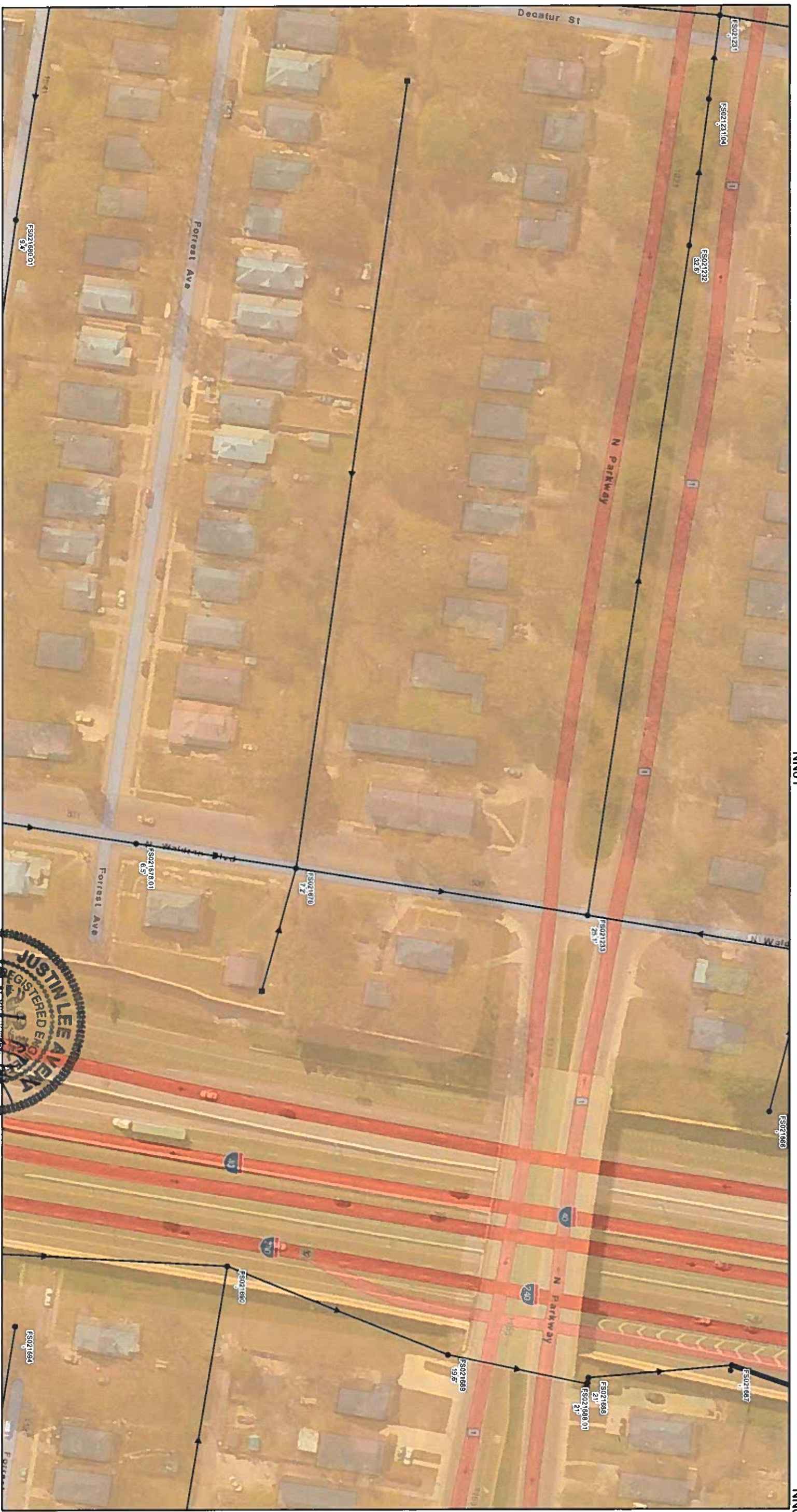
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (3)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravily Main (Rehab By Others)
- Gravily Main (No Rehab)



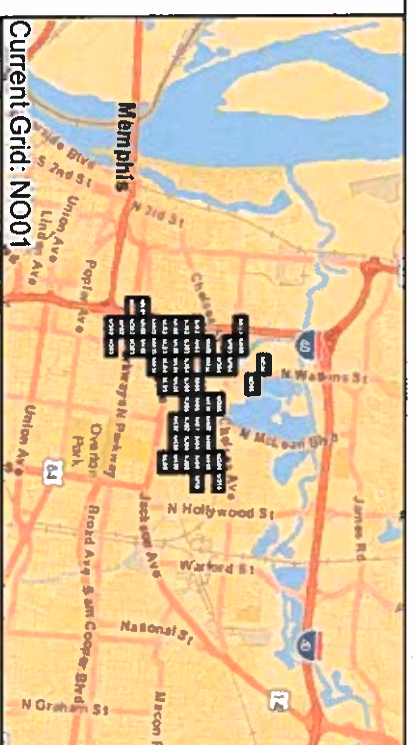
Group 1 Rehab Grid NN03



NN01

NN02

NP02

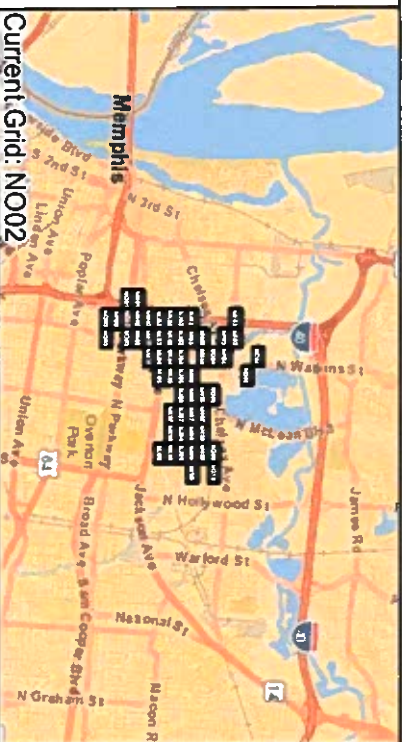


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (0)
 - ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NN001

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

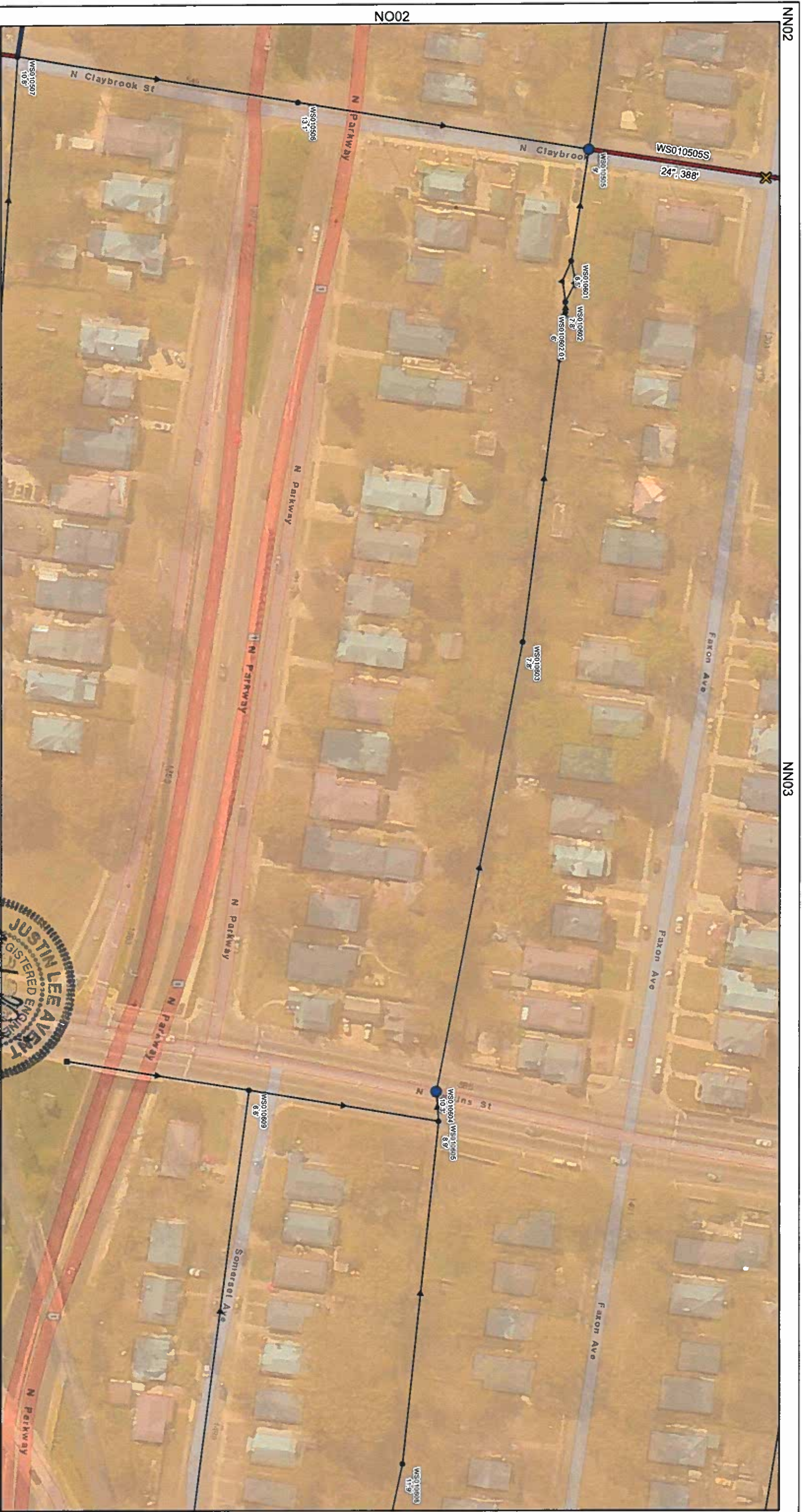


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (2)
 - CIPP (2)
 - ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid NO02

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

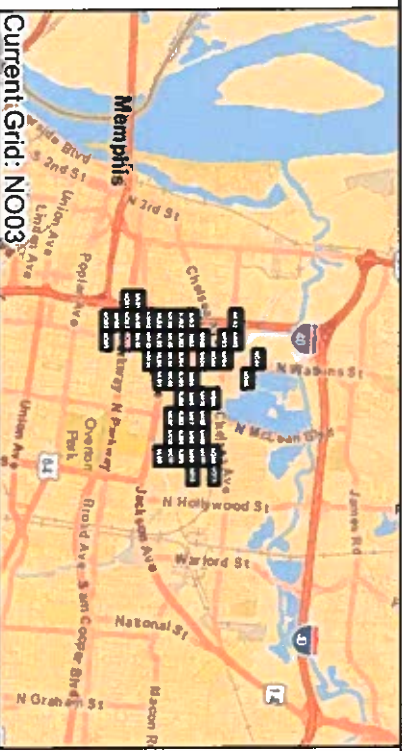


NN02

NN03

NO02

NP02



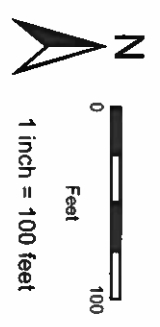
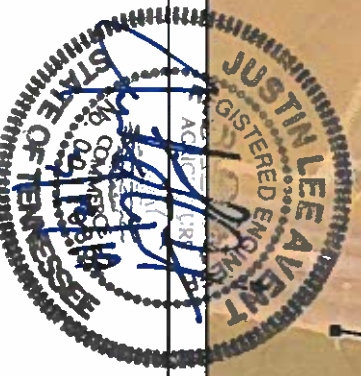
Current Grid: NO03

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (2)
- ⊠ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NO03

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NQ02

NQ03

Manhole Rehab

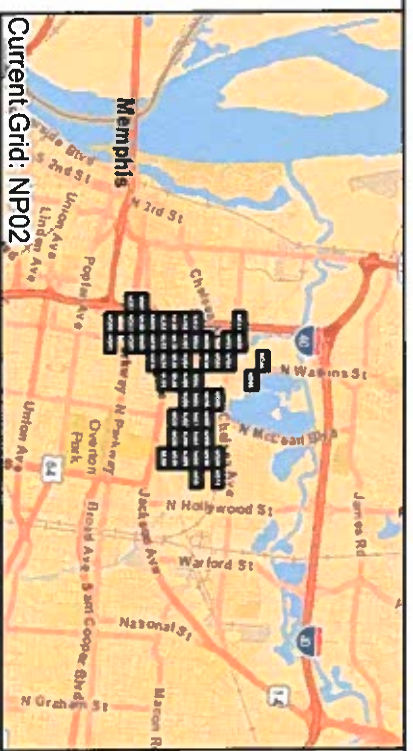
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (2)
- CIPP (3)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NP02

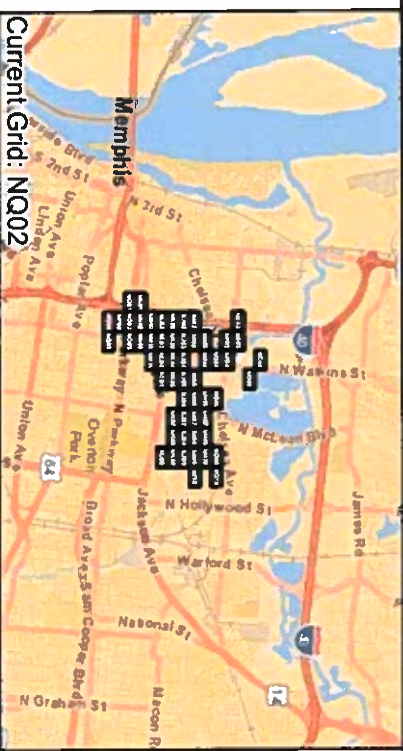


Current Grid: NP02

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



NO03

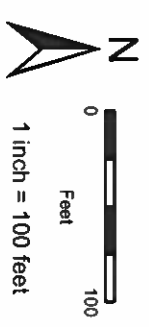


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid NQ02

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

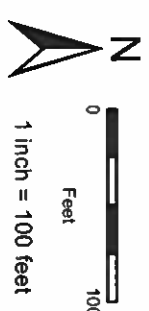
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

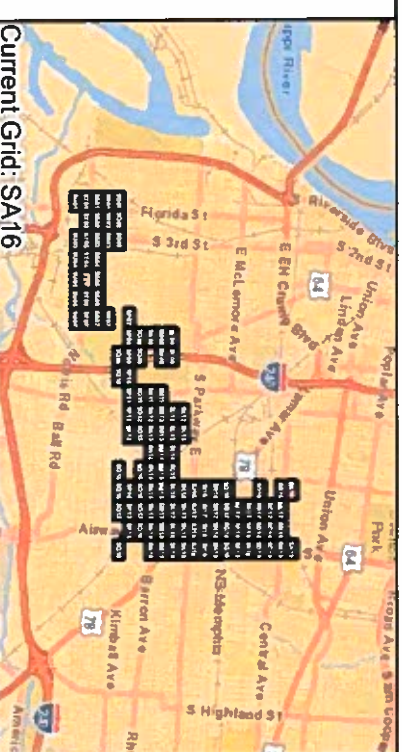


Current Grid: NQ03



Group 1 Rehab Grid NQ03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

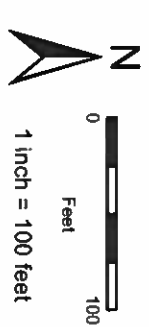


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ⊠ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SA16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SB18

SB19

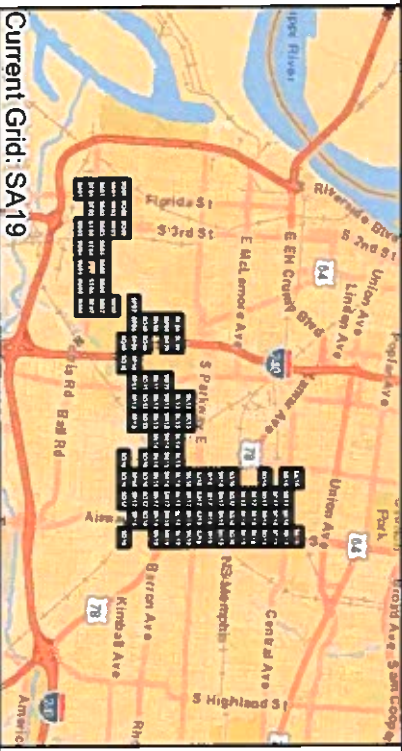


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (1)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Current Grid: SA19



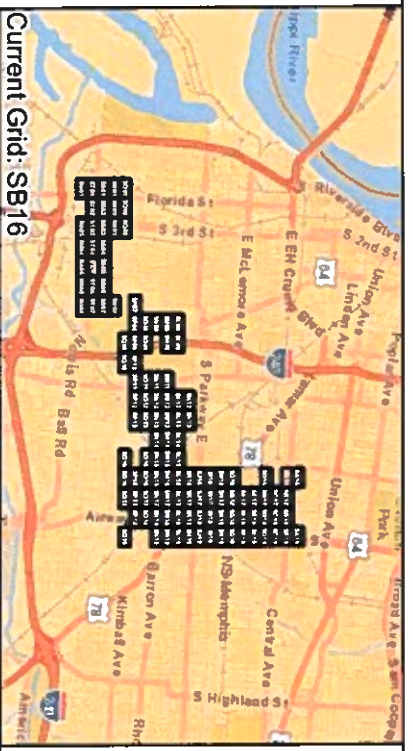
Group 1 Rehab Grid SA19

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SC17

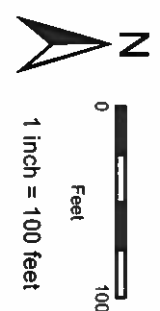
SB17



- ### Manhole Rehab
- Install New Manhole (1)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (3)
 - Point Repair Location (2)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SB16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SC17

SC18

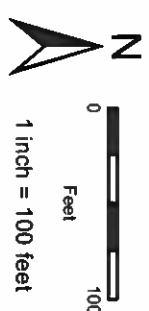
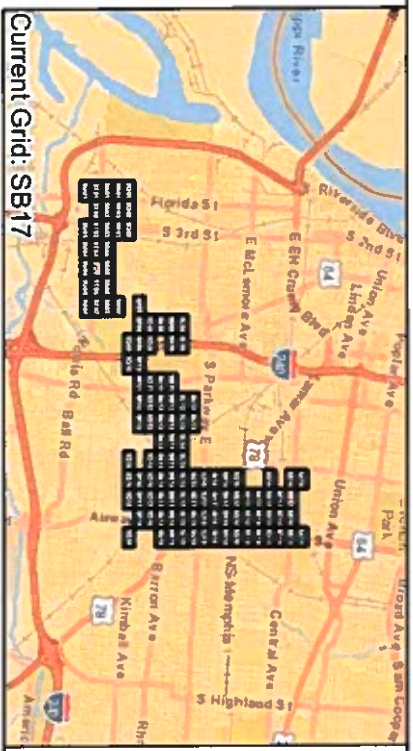


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- ⊗ Point Repair Location (2)
- ⊙ Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SB17

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



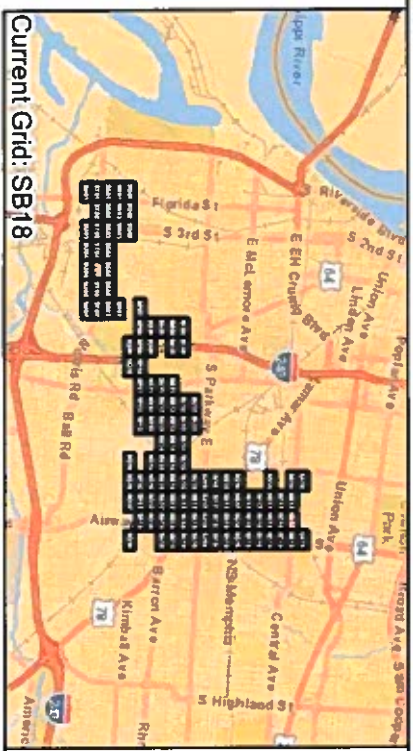
SB17

SC17

SC18

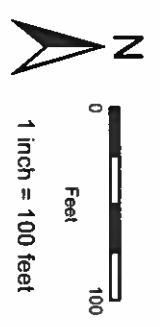
SC19

SB19

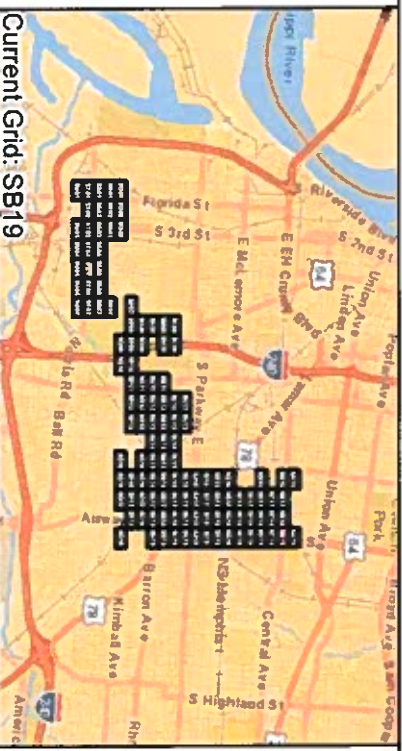


- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (1)
 - ▲ Cementitious Coating and Repair Bench/Channel (3)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (1)
 - ✕ Point Repair Location (1)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SB18



Manhole Rehab

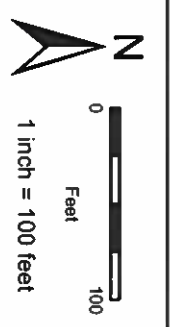
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)

Install New Manhole (Rehab By Others)

- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SB19

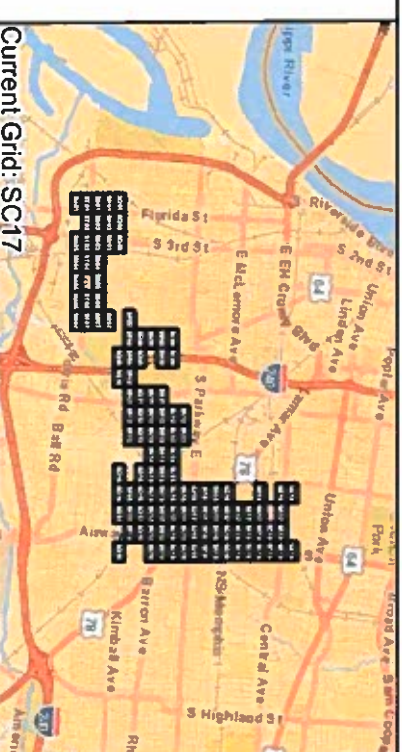
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SD16

SD17

SD18



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

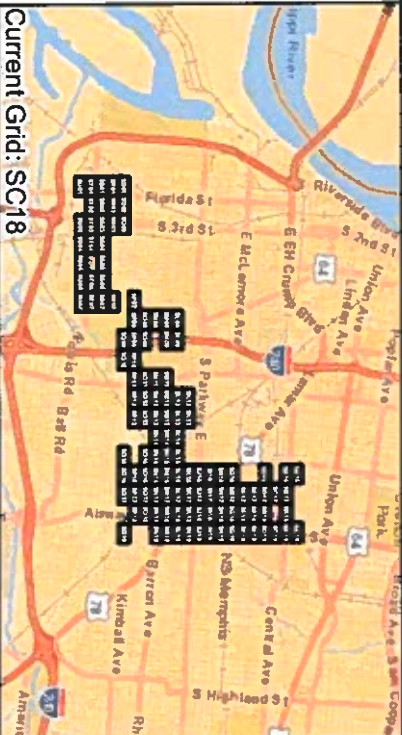
Pipe Rehab

- Point Repair Only (1)
- CIPP (4)
- ✕ Point Repair Location (7)
- Install New (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SC17

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

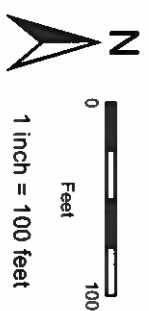


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (1)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (3)
- Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SC18

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

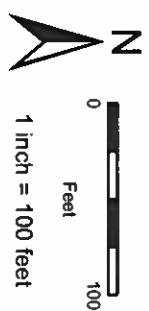
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)

Install New Manhole (Rehab By Others)

- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



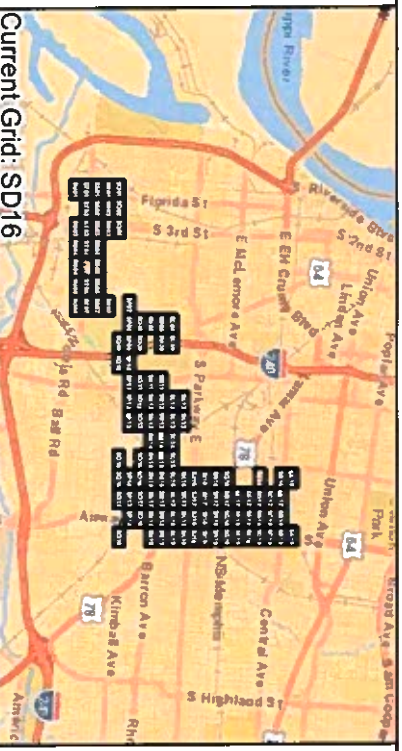
Group 1 Rehab Grid SC19

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SD17

SE17

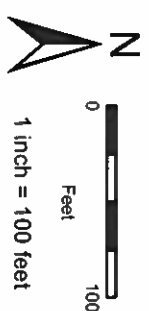


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

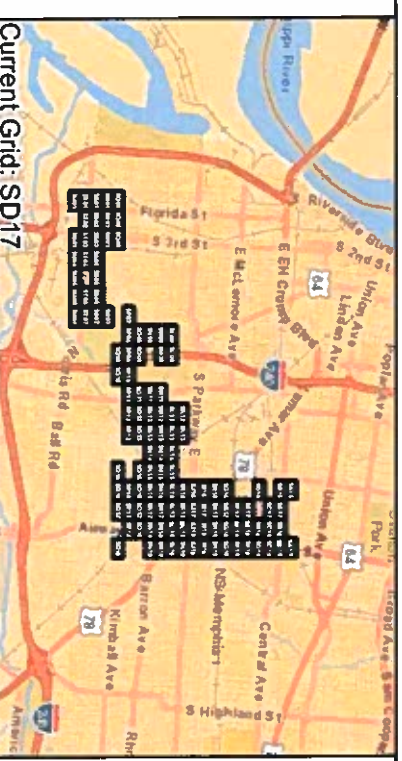
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SD16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

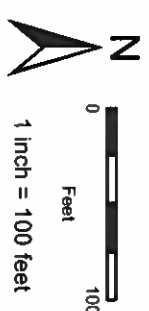


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

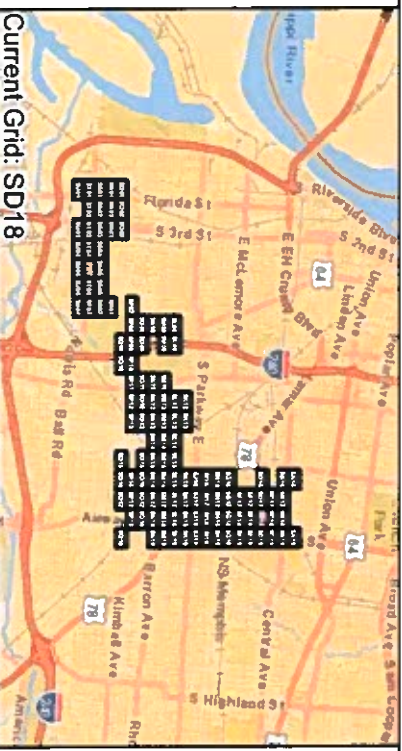
Pipe Rehab

- Point Repair Only (1)
- CIPP (2)
- ⊗ Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SD17

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

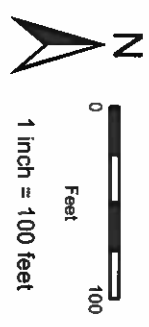


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (3)
- ⊠ Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

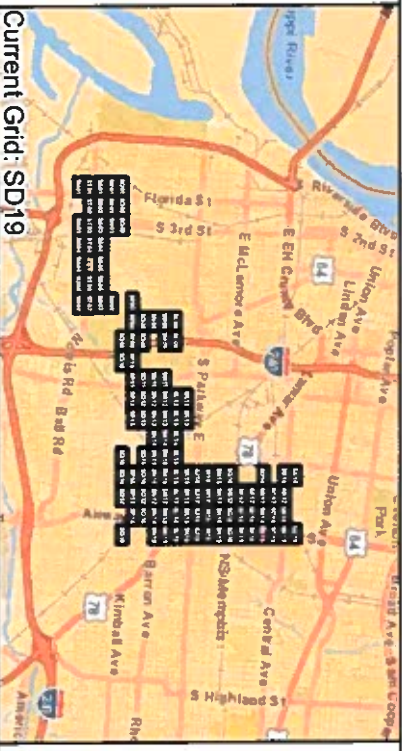
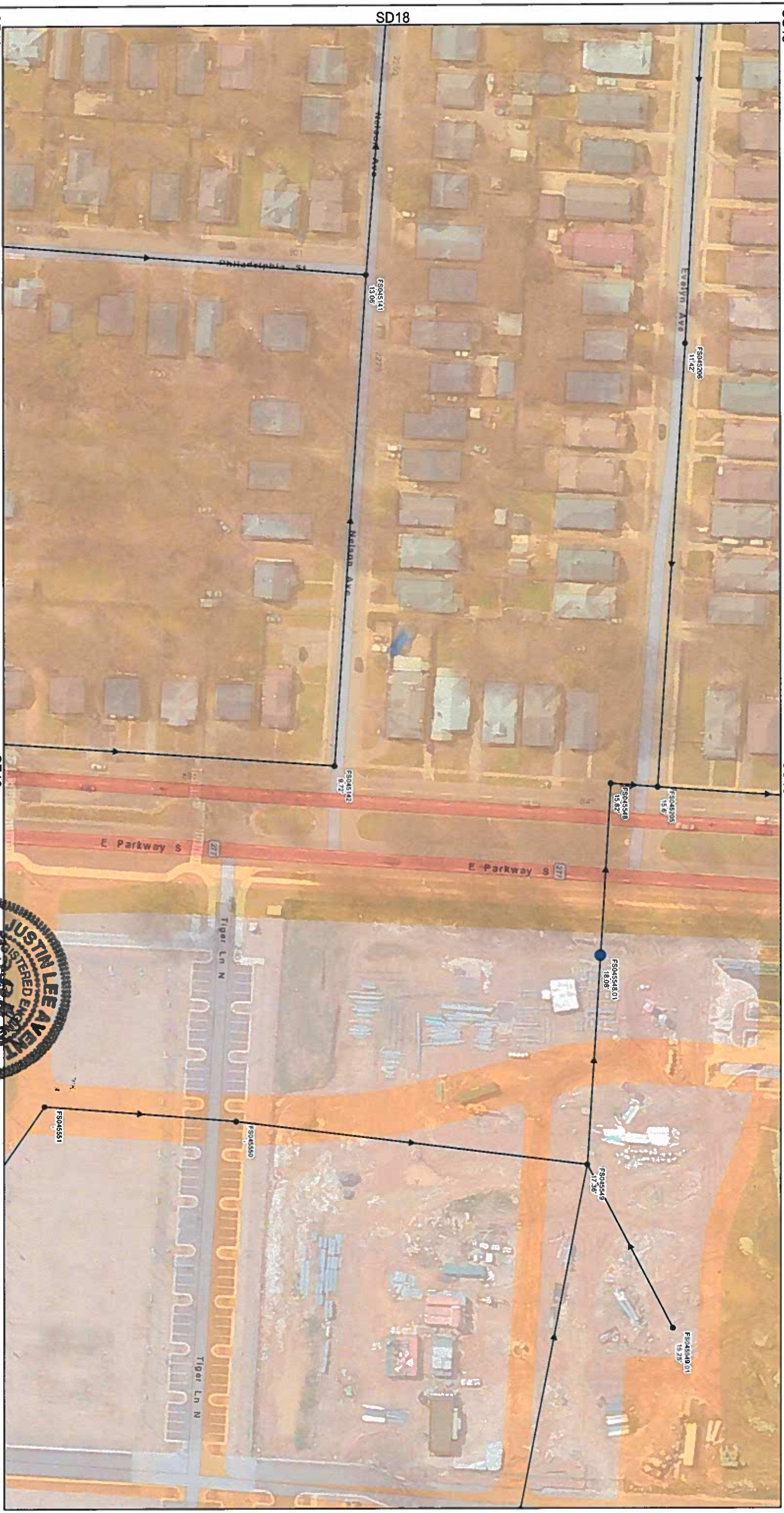


Group 1 Rehab Grid SD18

Note: Recorded manhole rim to invert measurements are indicated below the Facility /ID. Point Repair locations are approximate.

SC18

SC19



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

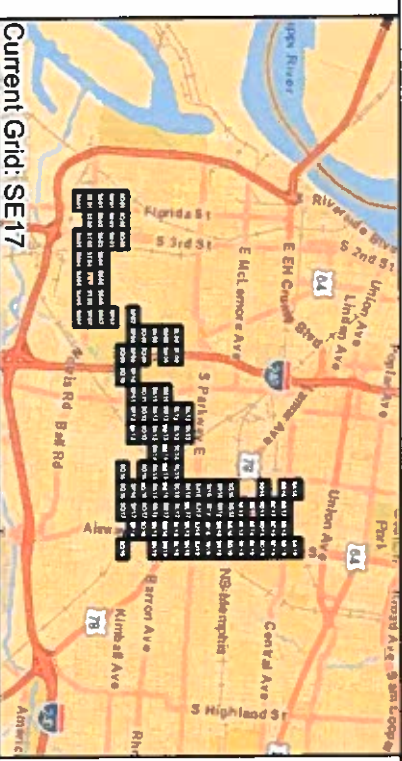
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SD19

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

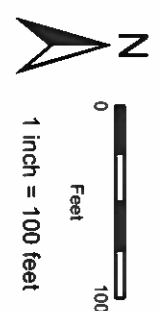


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

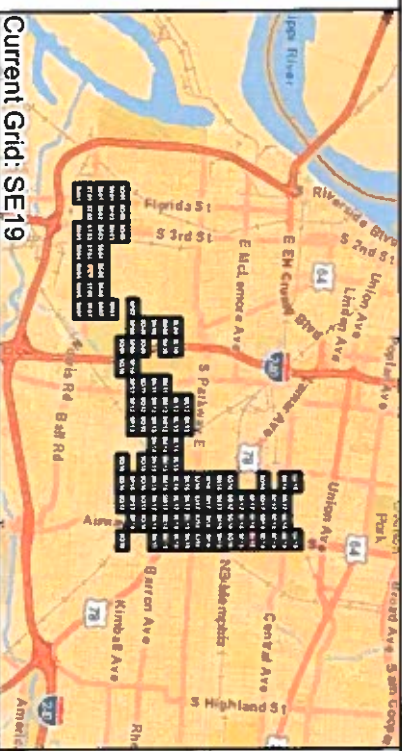
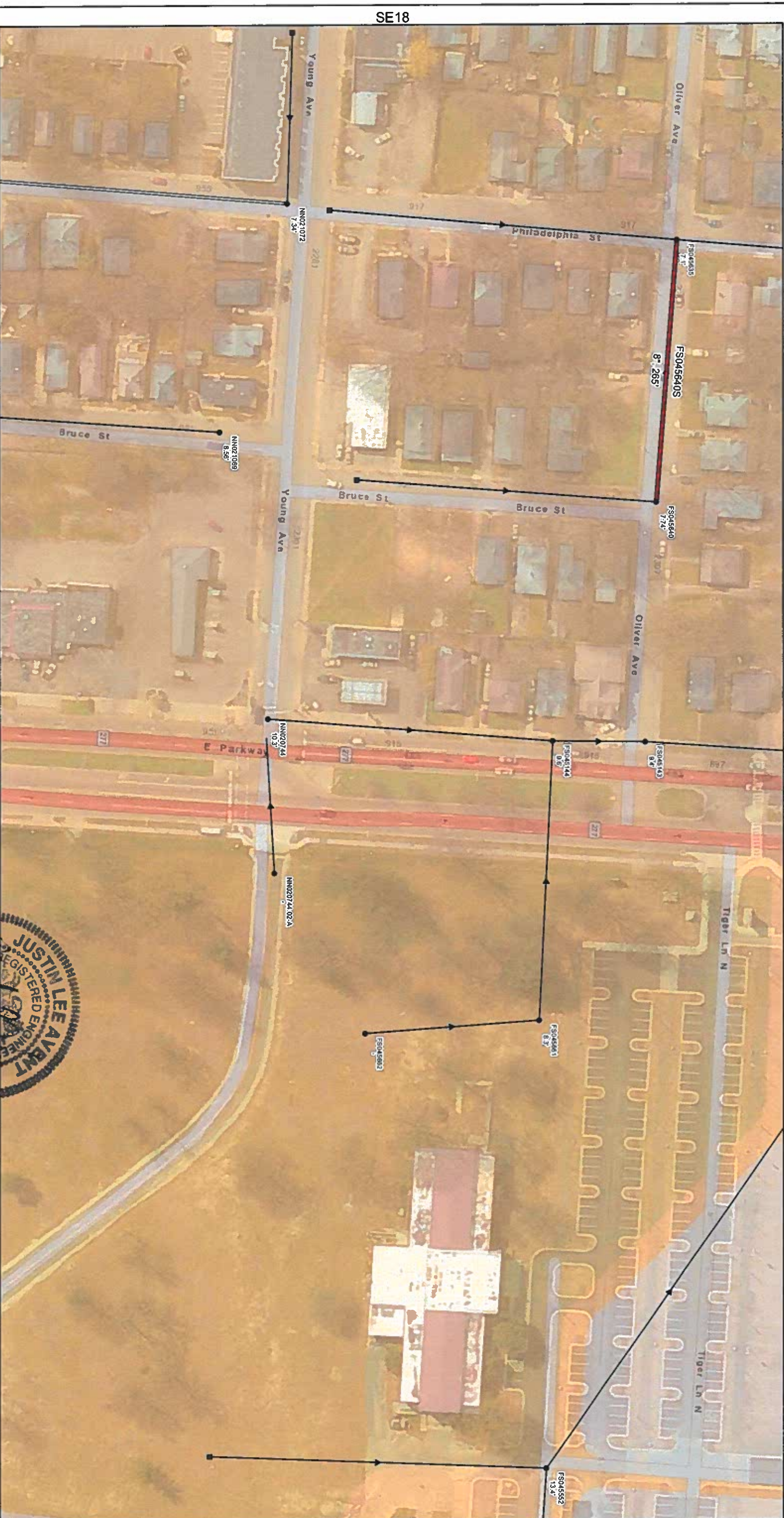
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ✕ Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SE17

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

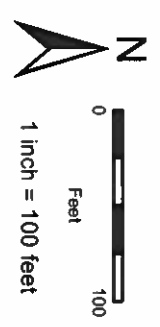


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel (0)
- Structurally Replace Manhole (0)

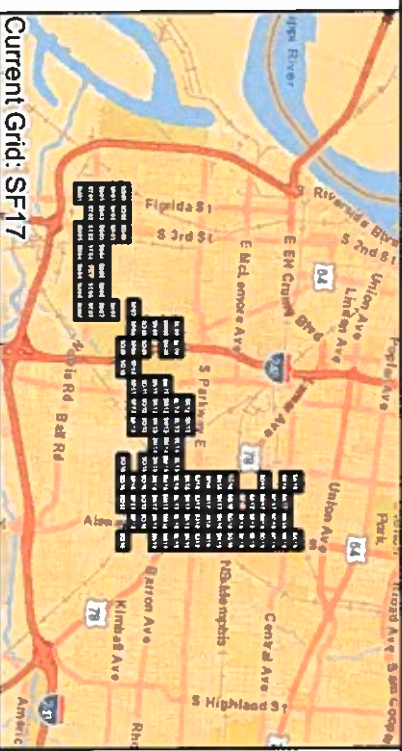
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SE19

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CI/PP (1)
 - Point Repair Location (1)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SF17

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SG16

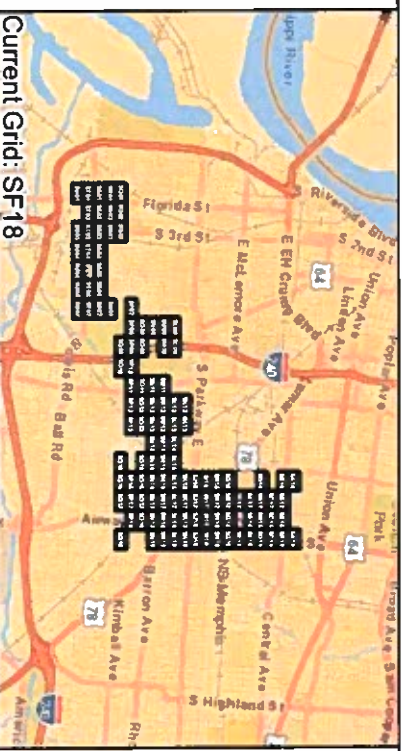
SG17

SG18

SF18

SE17

SE18

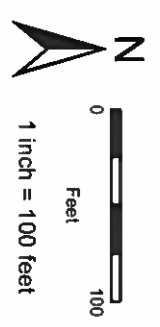
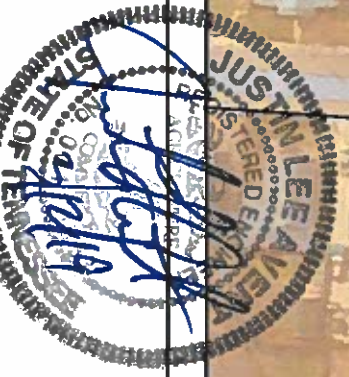


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

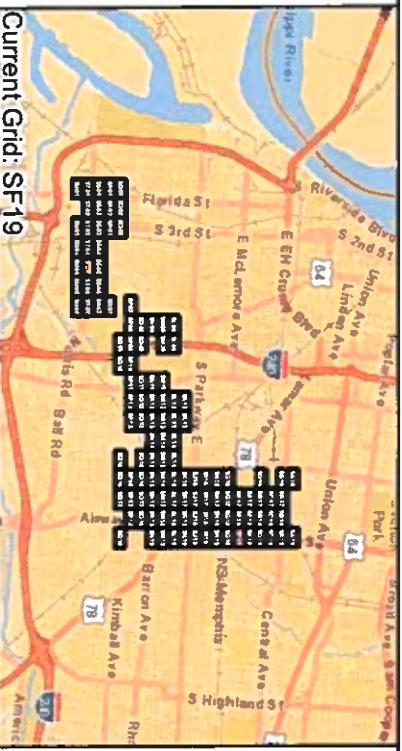
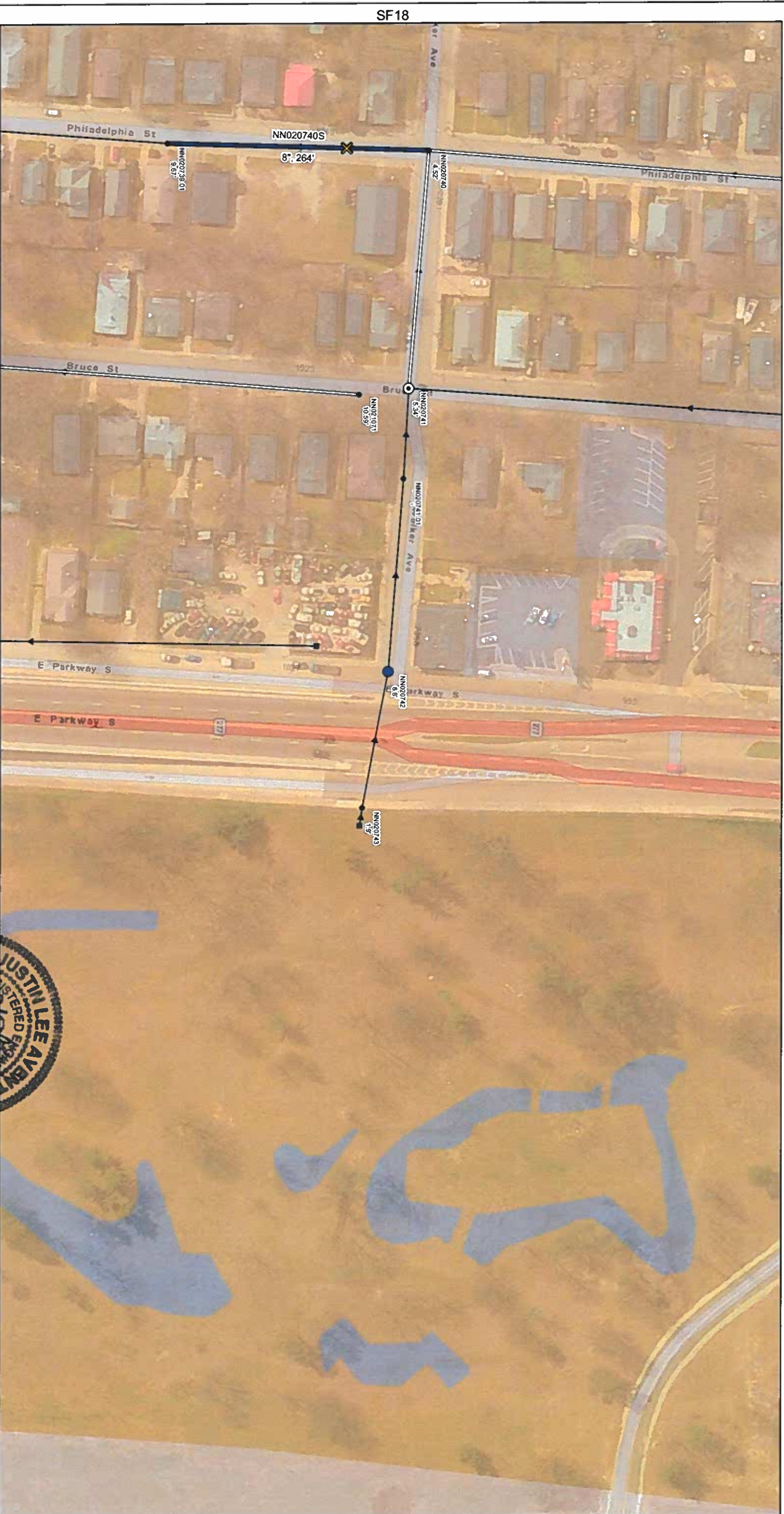
Pipe Rehab

- Point Repair Only (1)
- CLPP (3)
- ✕ Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravidy Main (Rehab By Others)
- Gravidy Main (No Rehab)



Group 1 Rehab Grid SF18

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

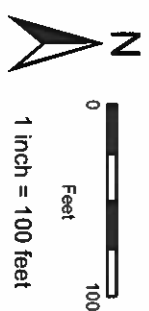


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

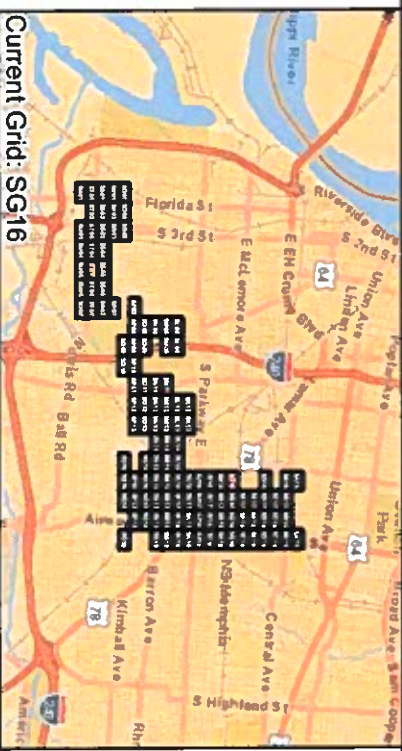
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SF19

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



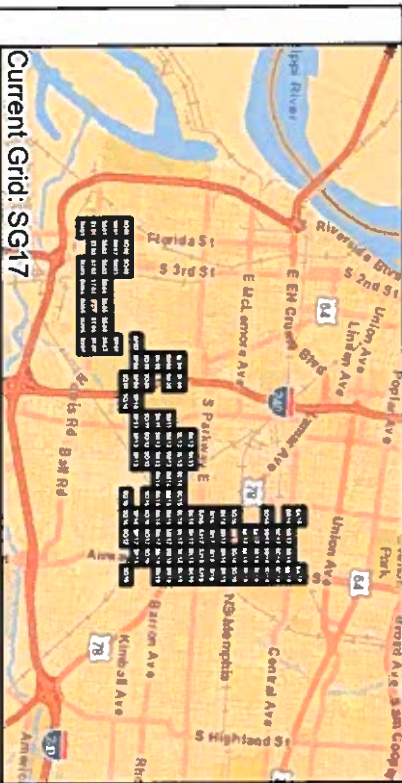
- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (2)
 - Point Repair Location (1)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



Group 1 Rehab Grid SG16

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



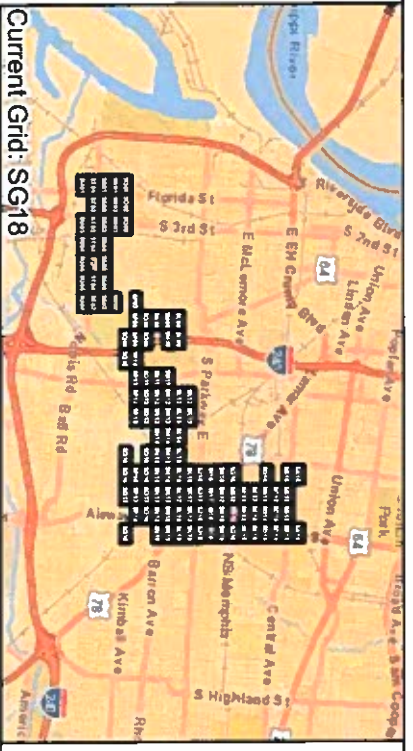
- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (3)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (1)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (4)
 - ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SG17

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SG18

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

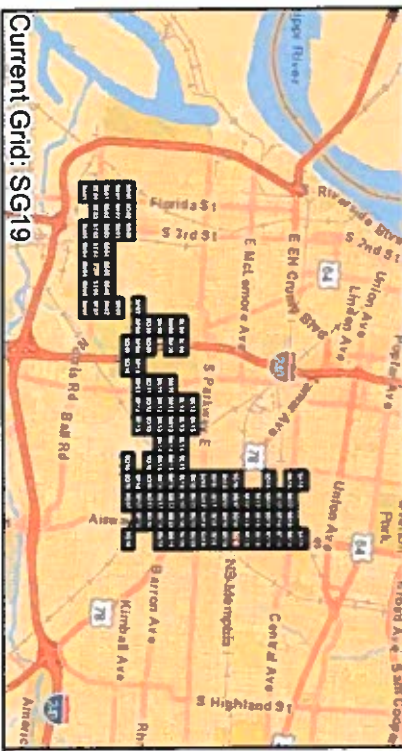
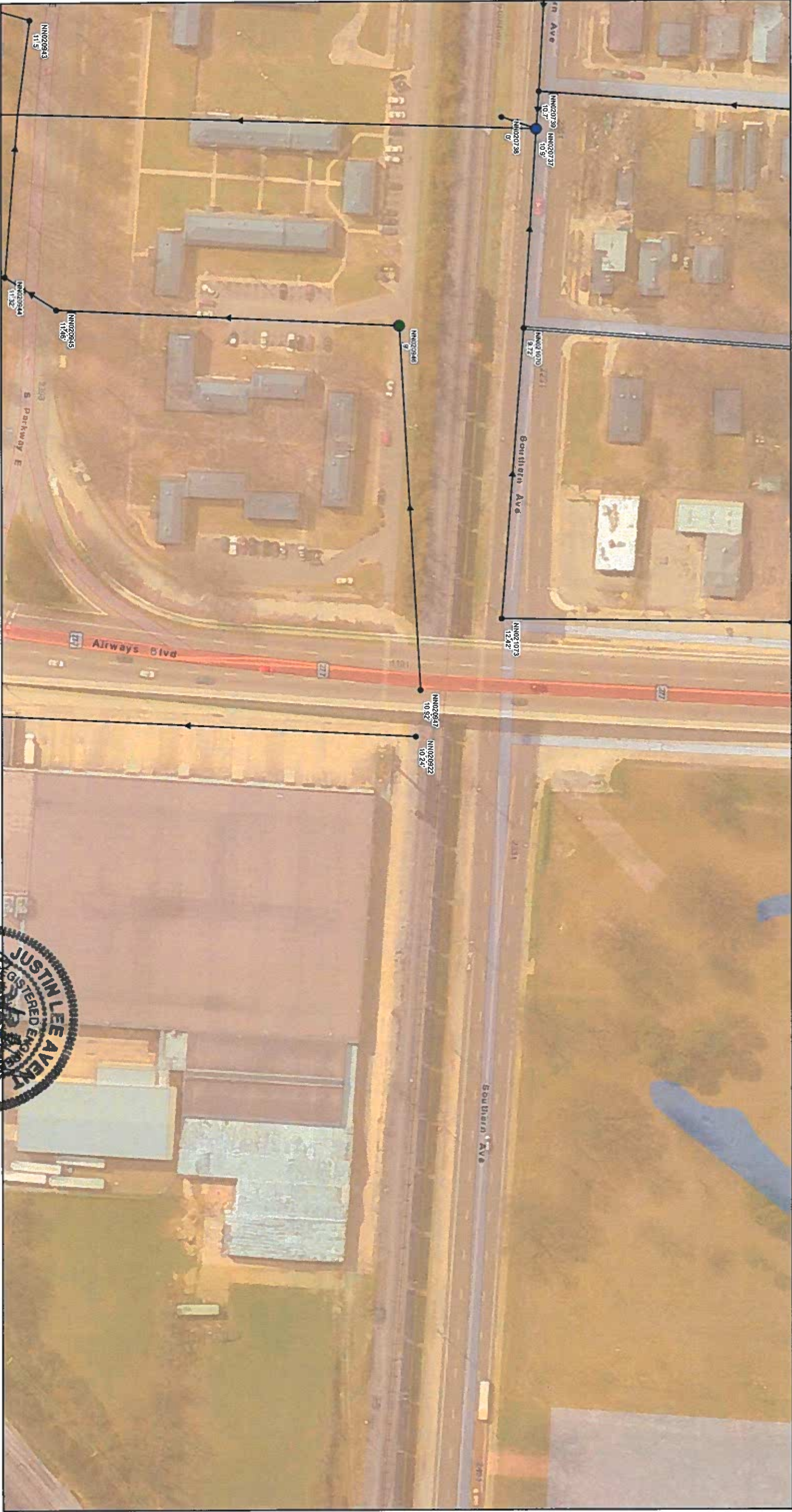
SF18

SF19

SG18

SH18

SH19



Manhole Rehab

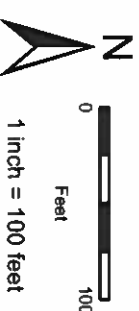
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✗ Point Repair Location (0)

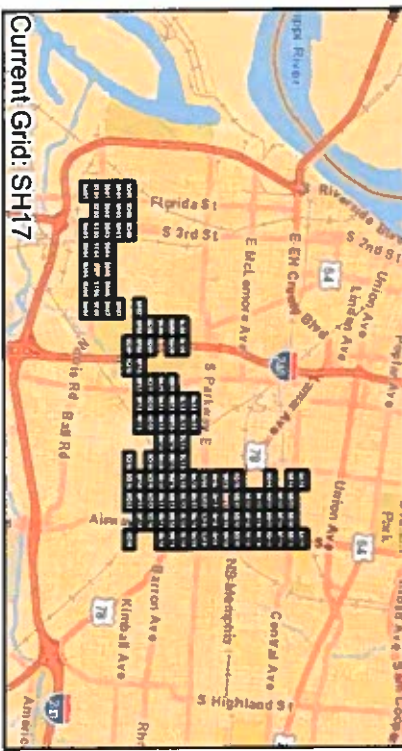
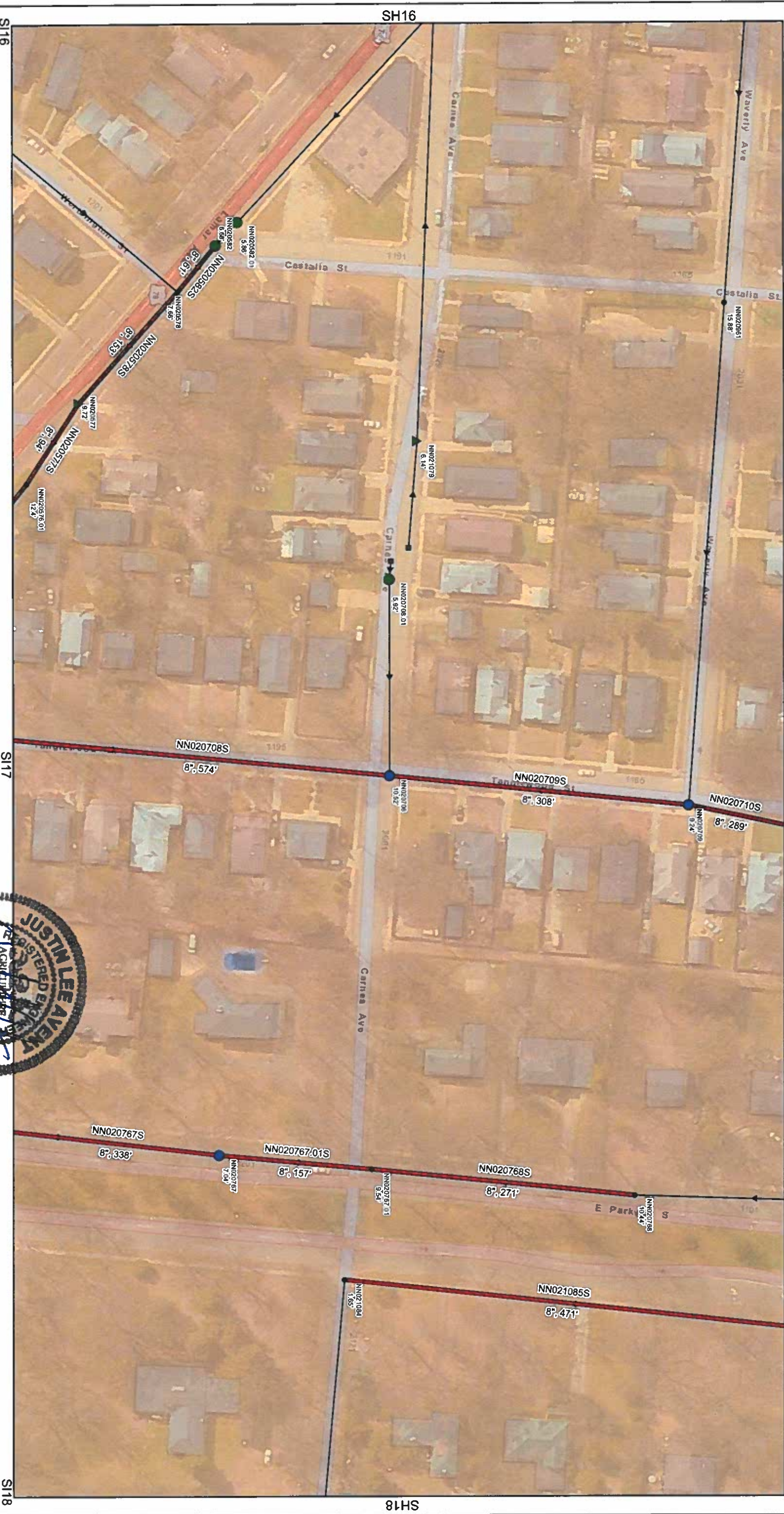
Install New Manhole (Rehab By Others)

- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SG19

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (3)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (2)
- Structurally Replace Manhole (0)

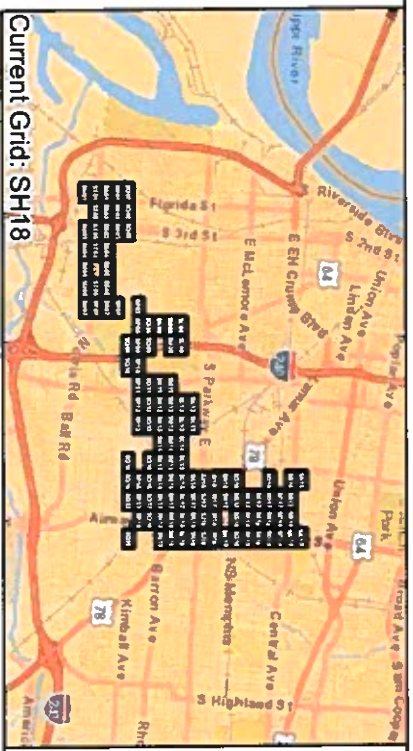
Pipe Rehab

- Point Repair Only (0)
- CLPP (11)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SH17

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (1)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - ClPP (5)
 - Point Repair Location (3)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

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Group 1 Rehab Grid SH18

1 inch = 100 feet

BLACK & VEATCH
Building a World of difference.

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

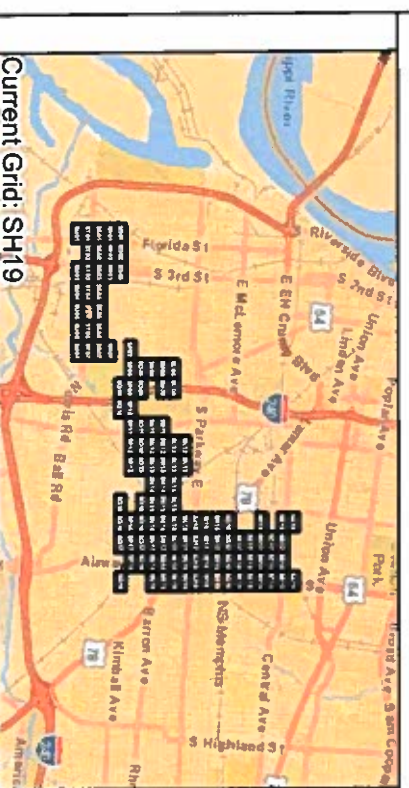
SG18

SG19



SH18

SH19



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (1)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

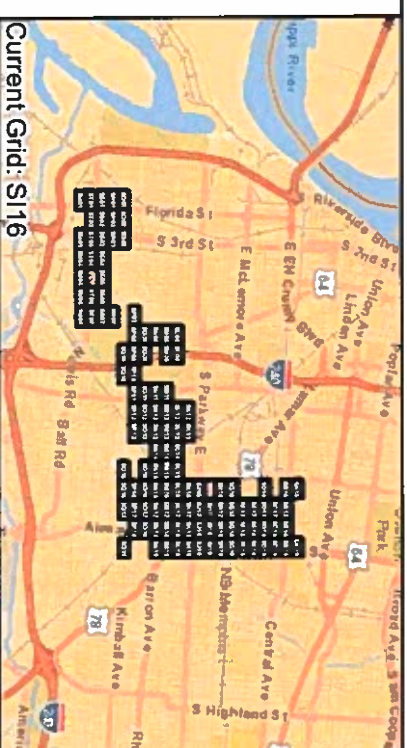
- ▬ Point Repair Only (0)
- ▬ CIPP (1)
- ⊗ Point Repair Location (0)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- ▬ Gravity Main (No Rehab)



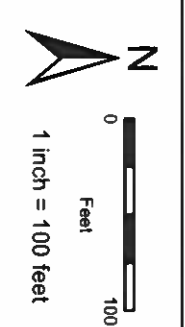
Group 1 Rehab Grid SH19

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

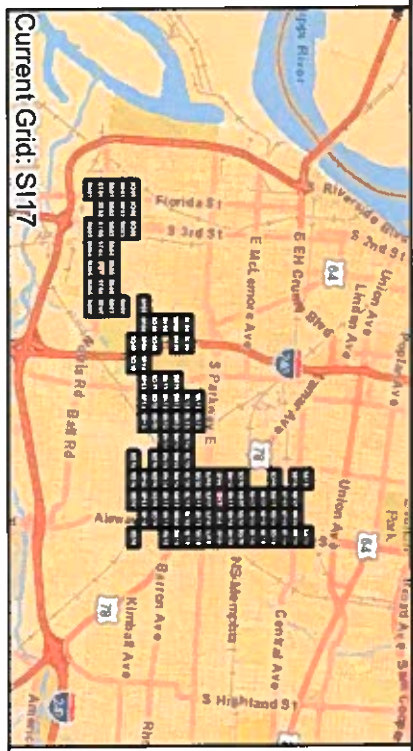
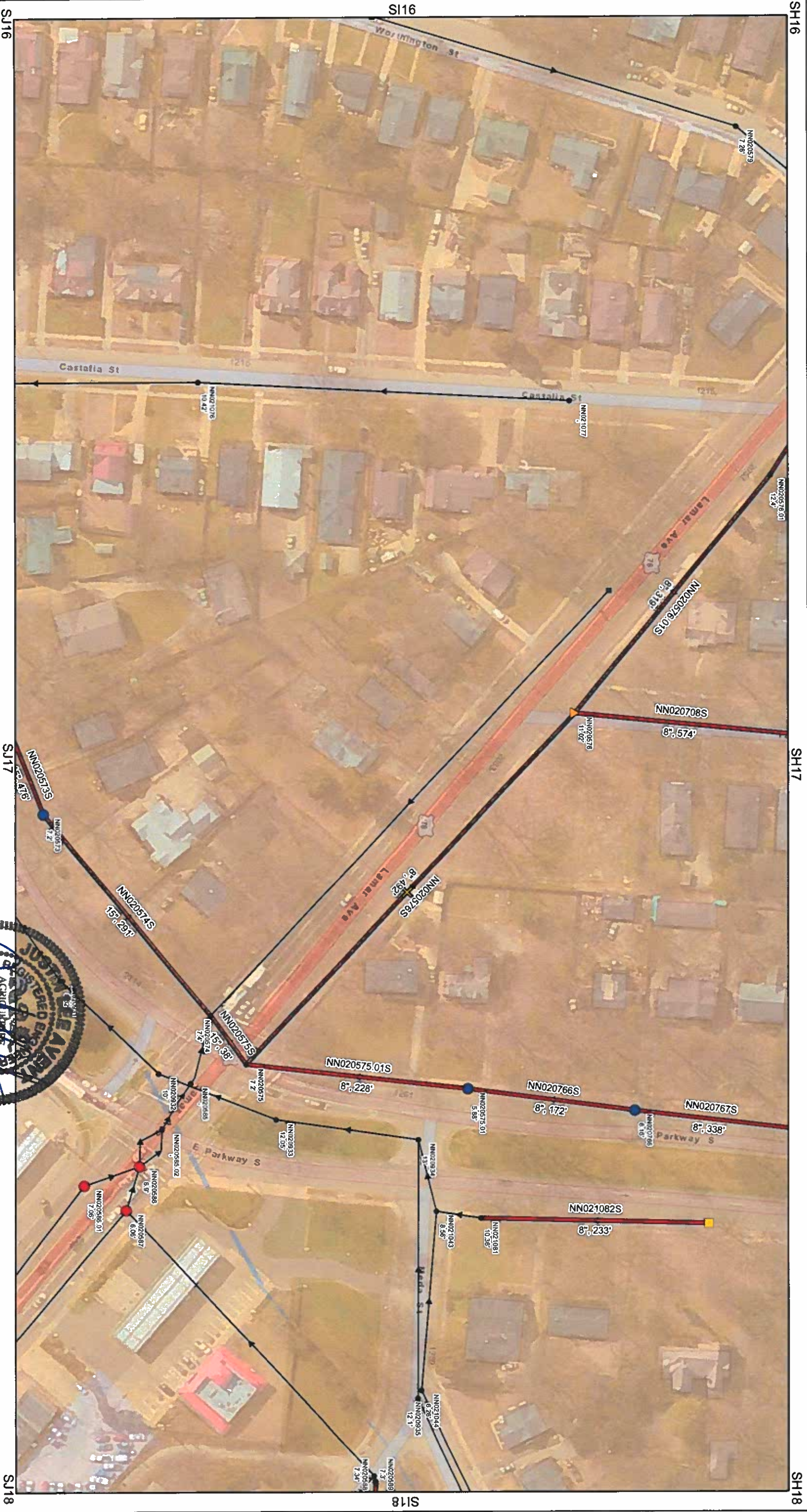
- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (3)
 - Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



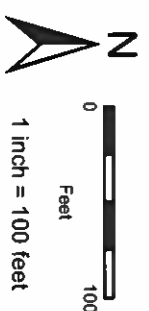
Group 1 Rehab Grid S116

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

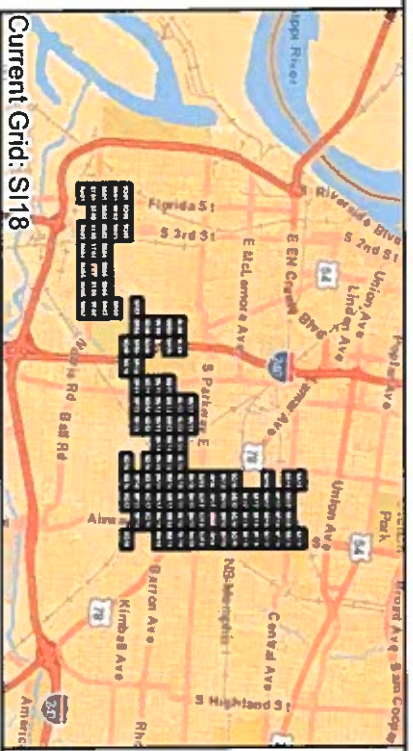


- ### Manhole Rehab
- Install New Manhole (1)
 - Install Inside Drop (0)
 - Cementitious Coating (3)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (1)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (3)
- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (12)
 - ✕ Point Repair Location (1)
- ### Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

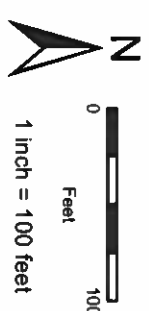


Group 1 Rehab Grid S117

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

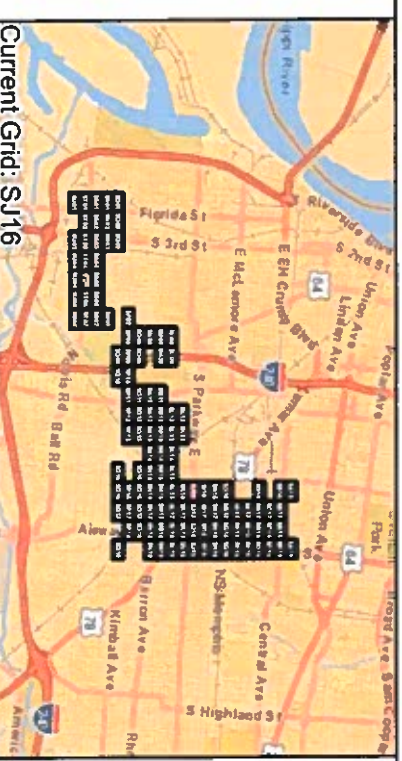
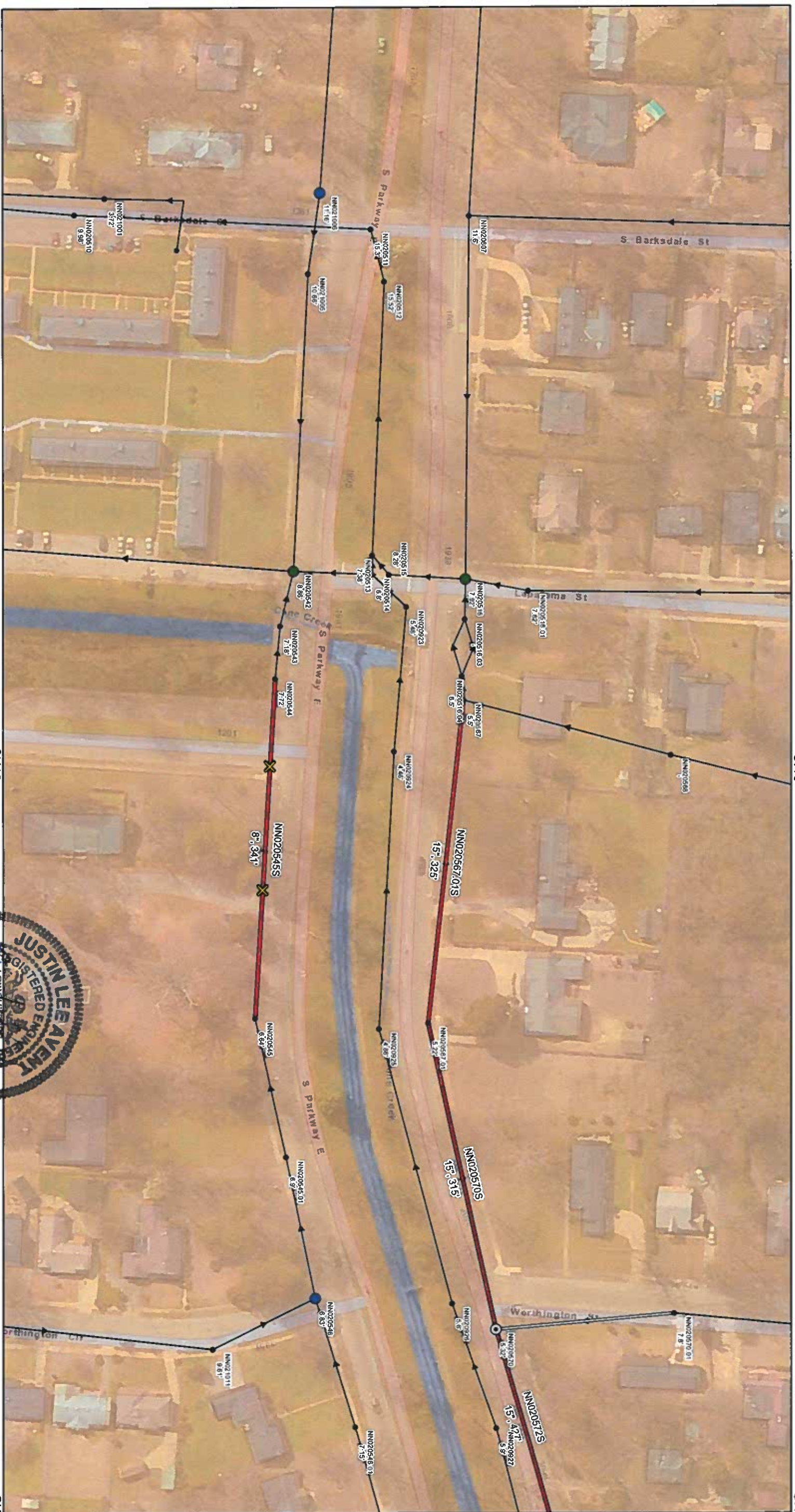


- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (4)
 - Point Repair Location (5)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



Group 1 Rehab Grid S118

Note: Recorded manhole /rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

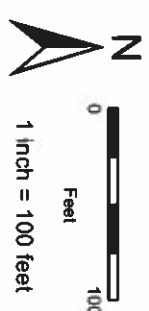


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (2)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (1)
- Structurally Replace Manhole (0)

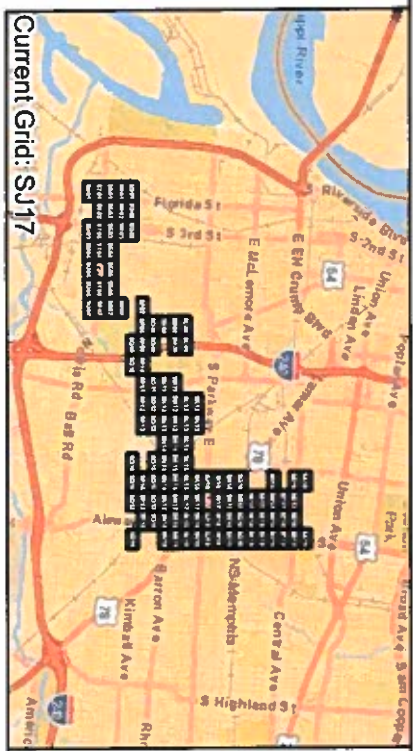
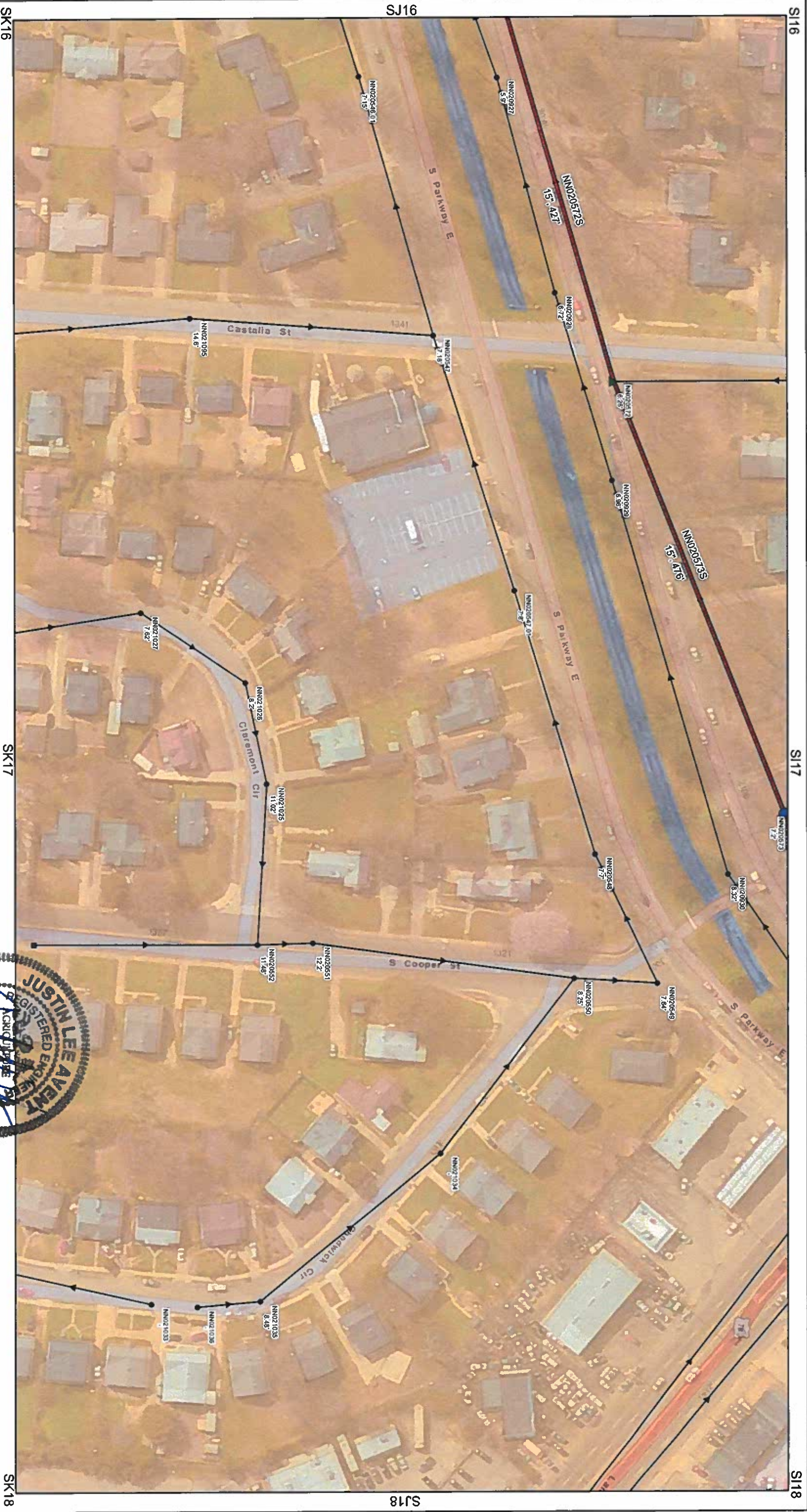
Pipe Rehab

- Point Repair Only (0)
- CIPP (4)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

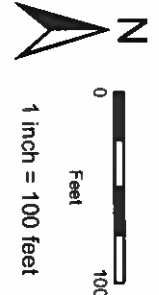


Group 1 Rehab Grid SJ16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

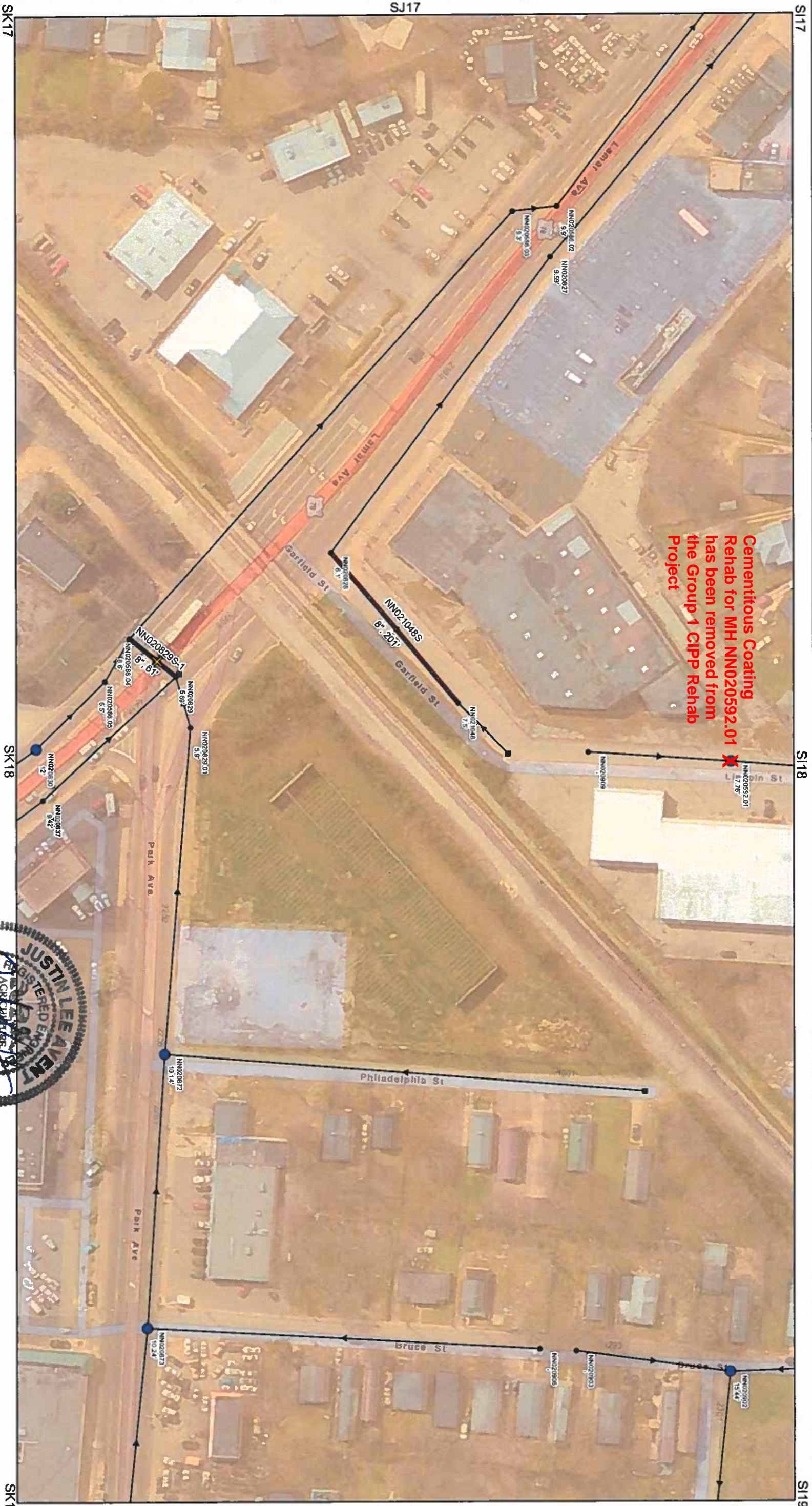


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (3)
 - Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SJ17

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



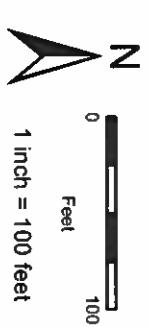
Cementitious Coating Rehab for MH NN020592.01 has been removed from the Group 1 CIPP Rehab Project

Manhole Rehab

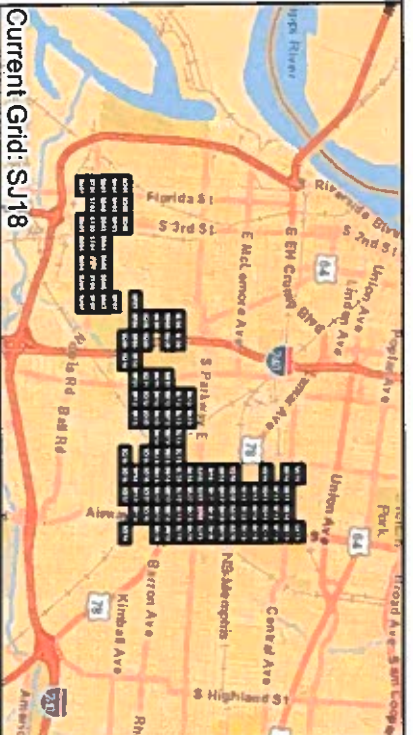
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (4)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SJ18



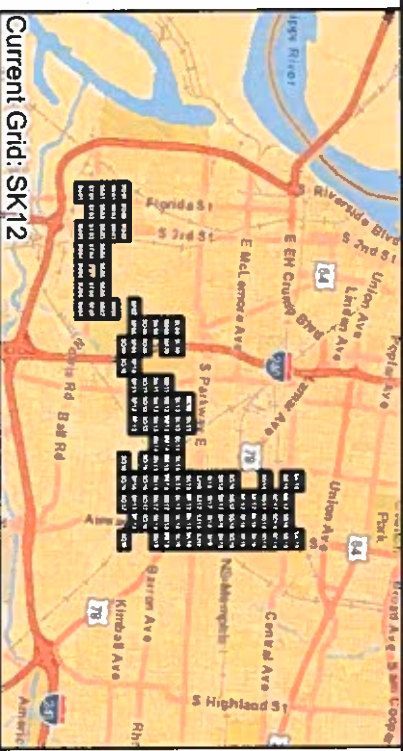
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SL 12

SL 13

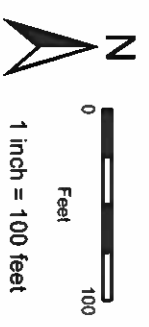
SK 13



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (3)
 - Point Repair Location (3)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SK12

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

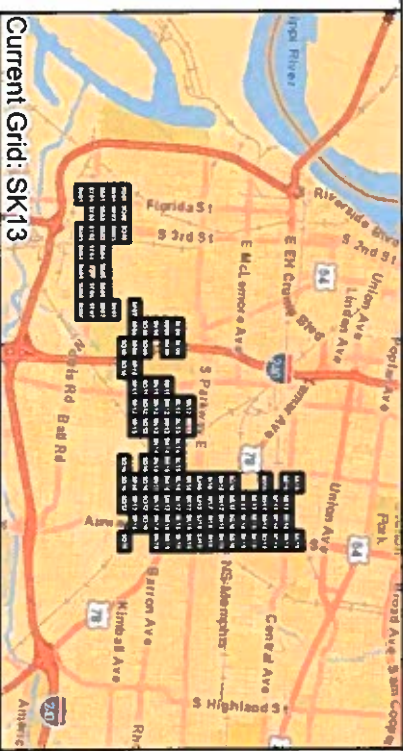


SK12

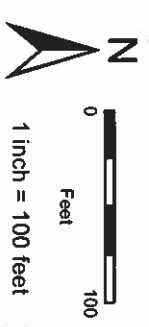
SL12

SL13

SL14

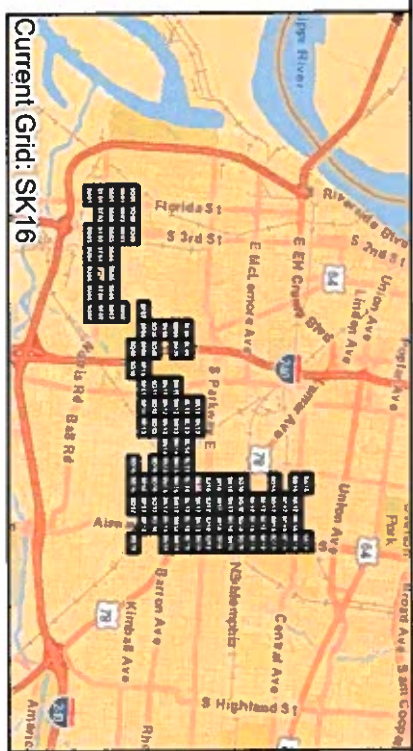
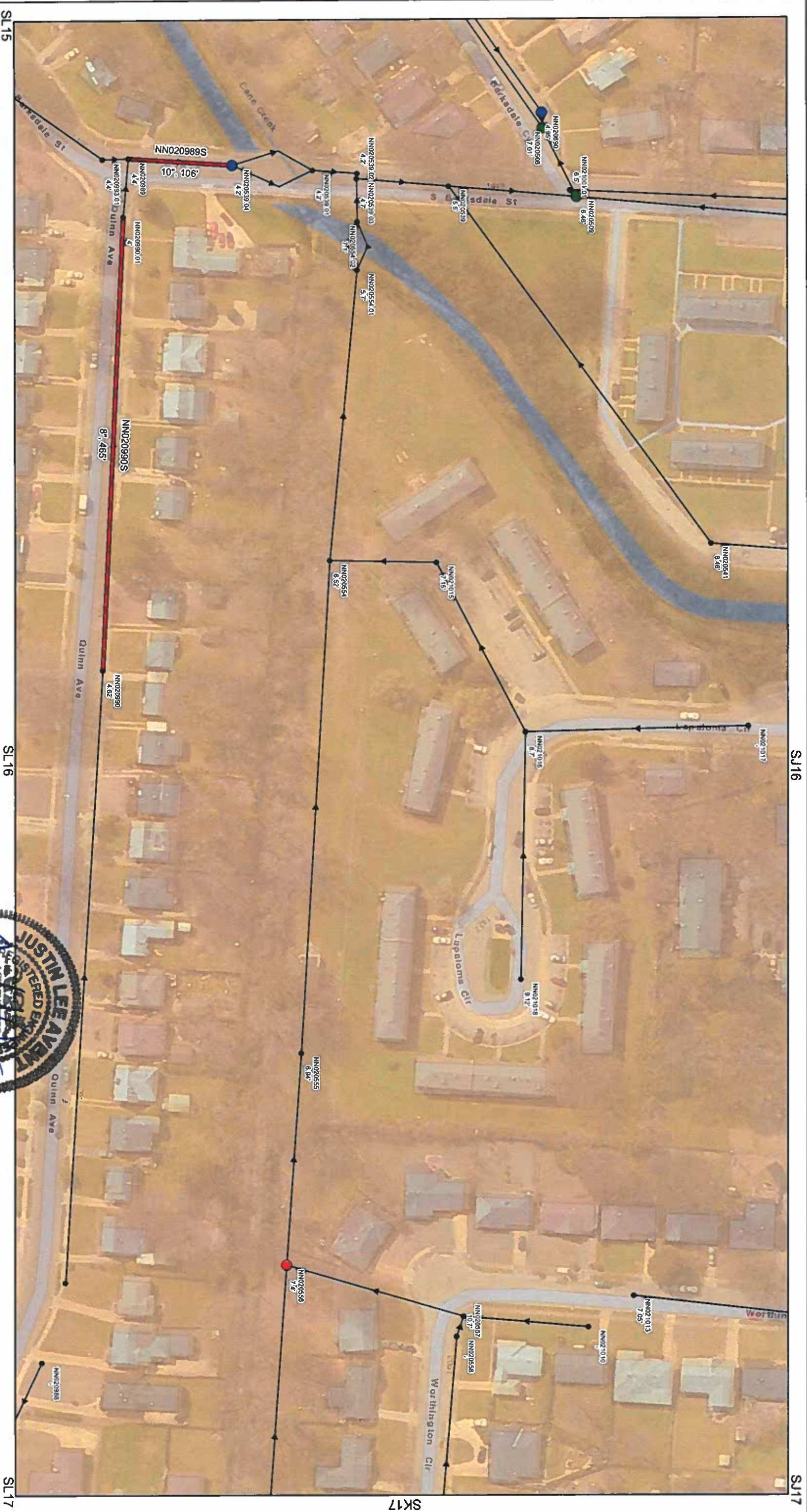


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (2)
 - Point Repair Location (1)
- Install New Manhole (Rehab By Others)**
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)

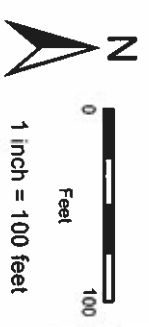


Group 1 Rehab Grid SK13

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

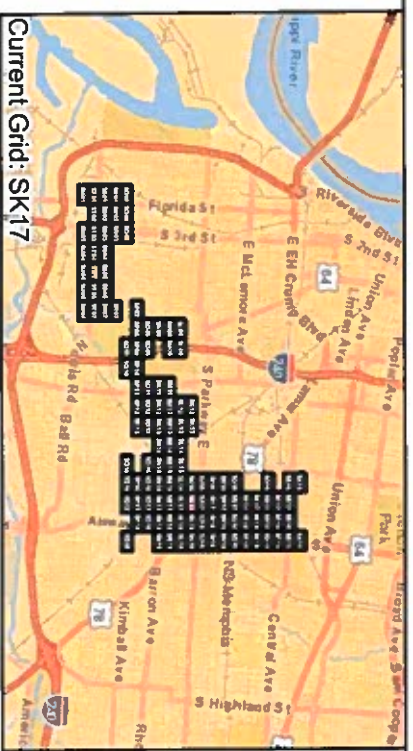


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (2)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (1)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (2)
 - Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SK16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

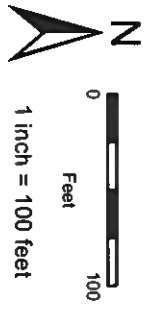


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (1)
- Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

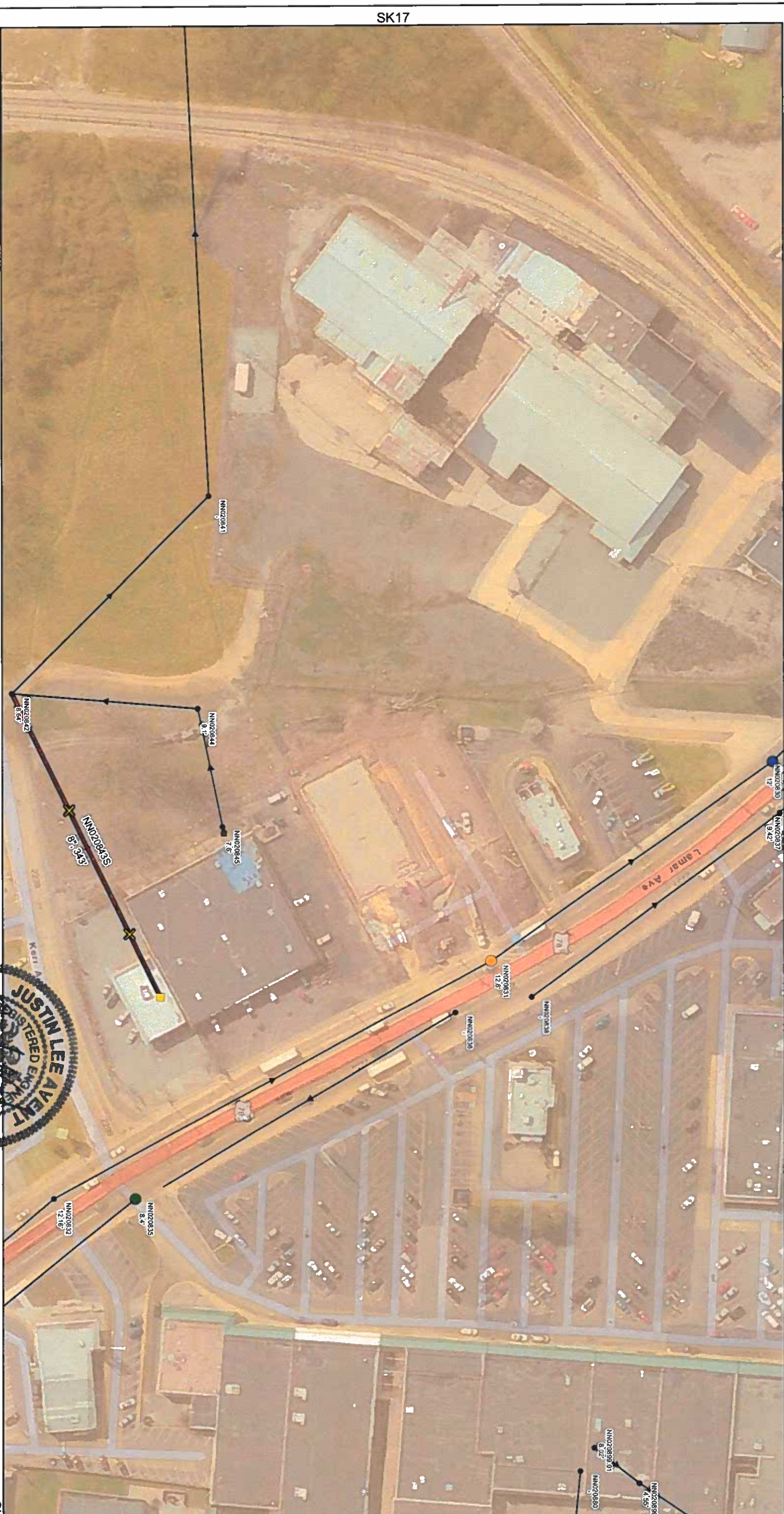
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravily Main (Rehab By Others)
- Gravily Main (No Rehab)



Group 1 Rehab Grid SK17

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



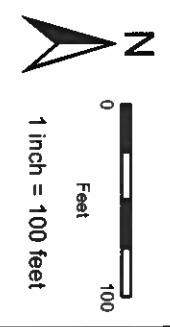
Manhole Rehab

- Install New Manhole (1)
- Install Inside Drop (1)
- Cementitious Coating (1)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

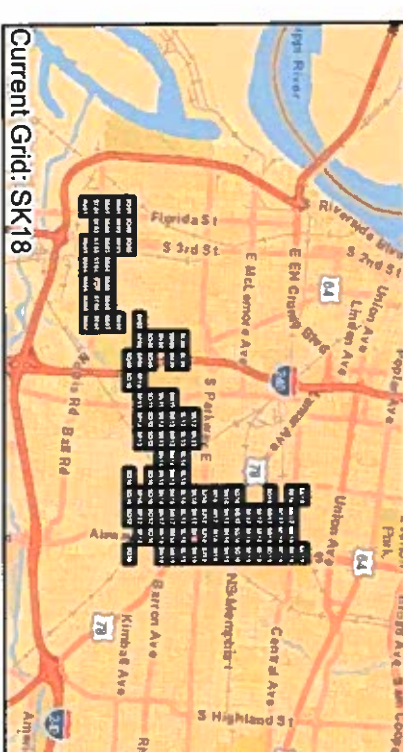
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✕ Point Repair Location (2)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SK18



Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

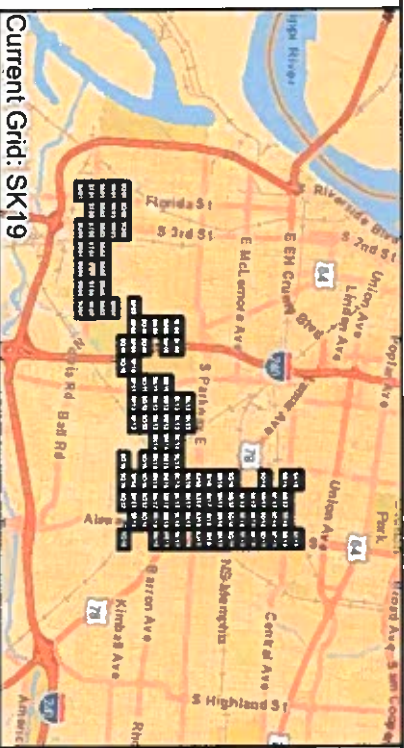
SJ18

SJ19

SK18

SL18

SL19

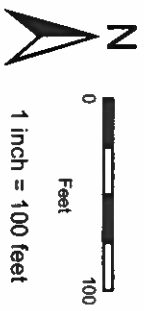


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SK19

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SM08

SM09

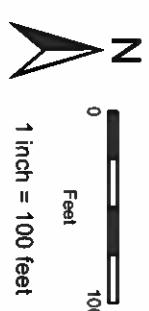
SL09

Manhole Rehab

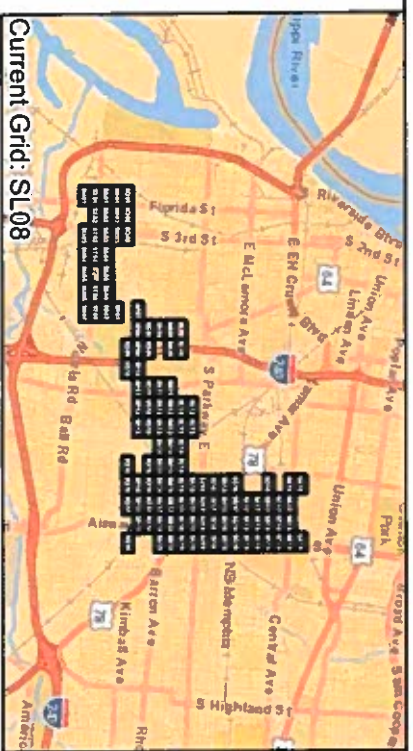
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SL08



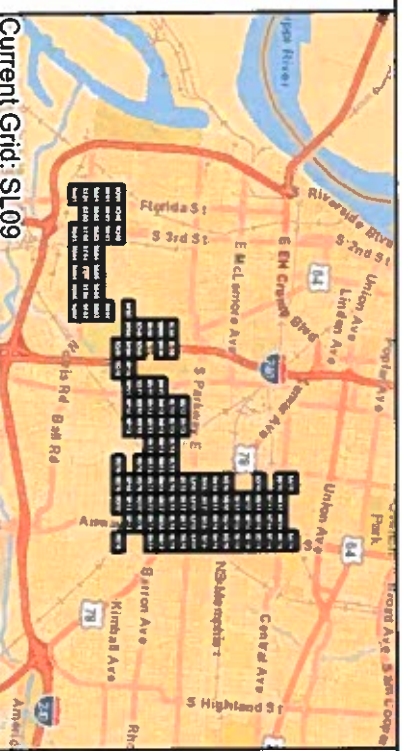
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SL08

SM08

SM09



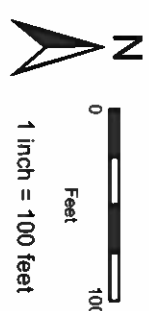
Current Grid: SL09

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SL09

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SK12
SK13



- Manhole Rehab**
- Install New Manhole (1)
 - Install Inside Drop (1)
 - Cementitious Coating (3)
 - Repair Bench/Channel (3)
 - Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (2)
 - ✕ Point Repair Location (2)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Graviity Main (Rehab By Others)
 - Graviity Main (No Rehab)



Group 1 Rehab Grid SL13

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SK13



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (2)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (0)

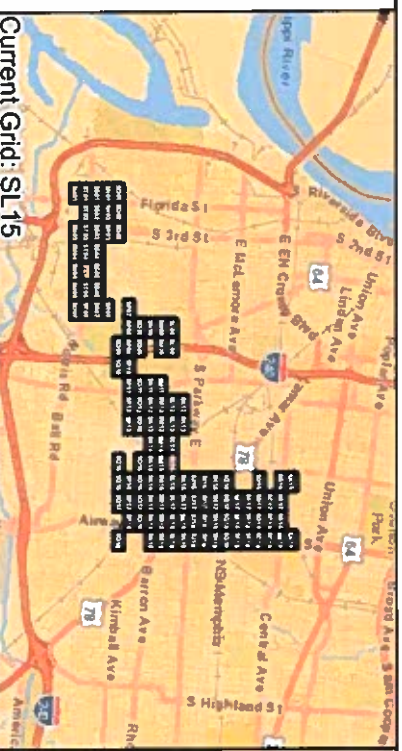
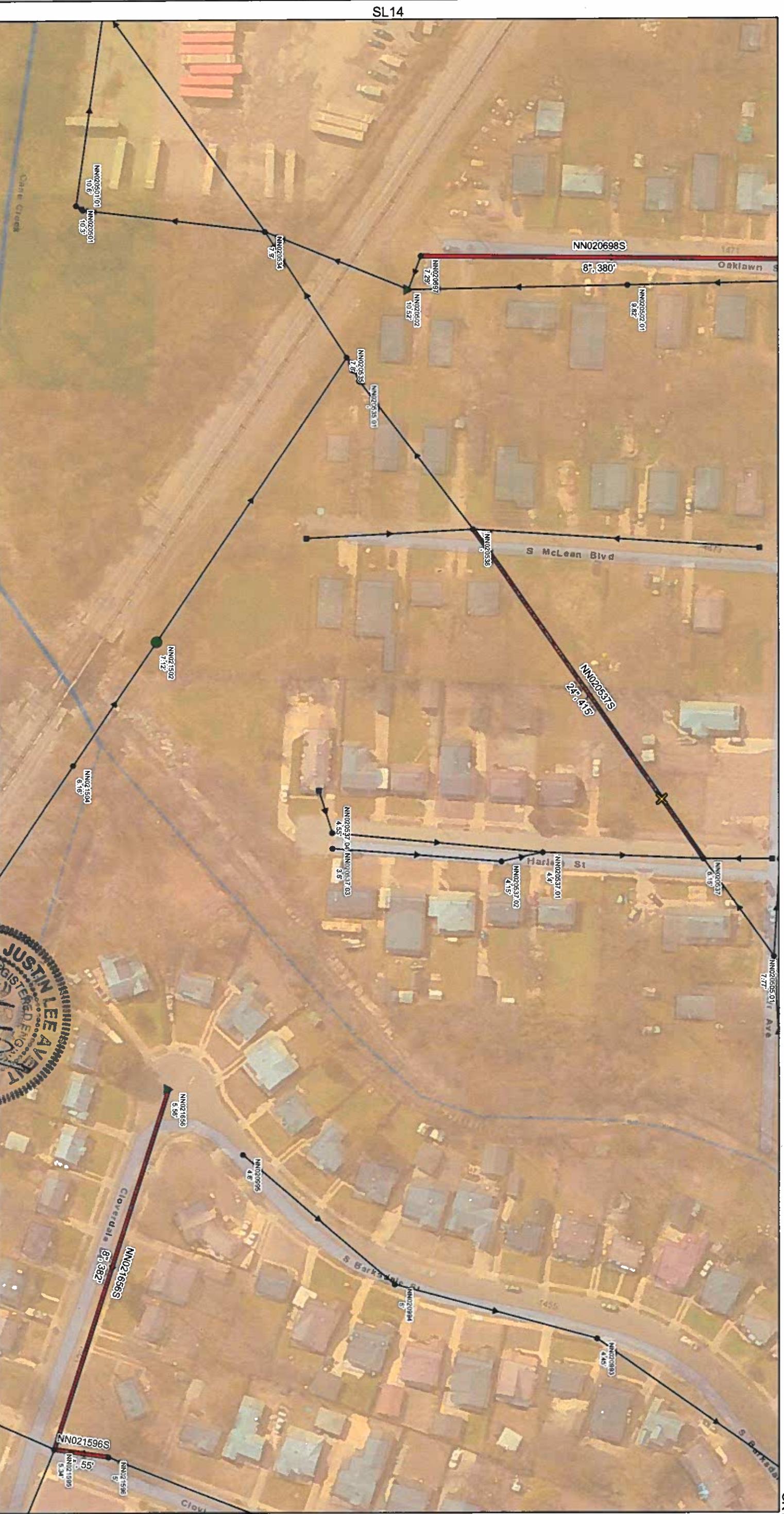
Install New Manhole (Rehab By Others)

- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

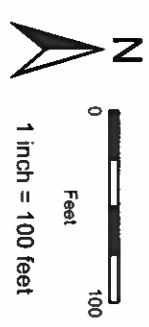


Group 1 Rehab Grid SL14

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (2)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (4)
 - Point Repair Location (1)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



Group 1 Rehab Grid SL15

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SK16

SK17

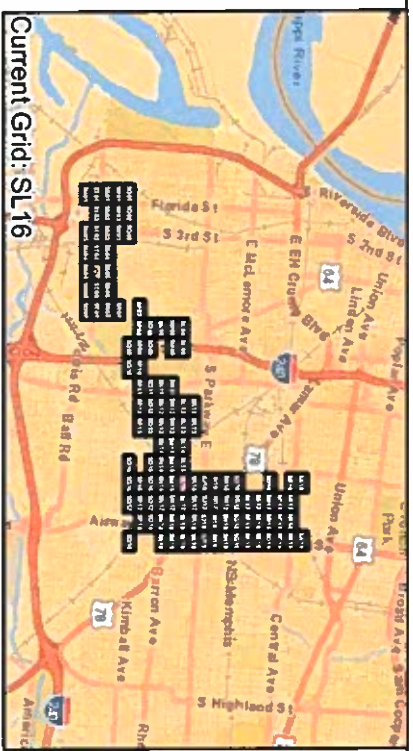
SL15

SL17

SM15

SM16

SM17

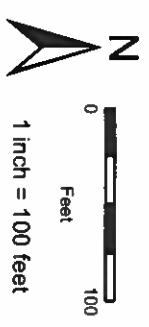


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

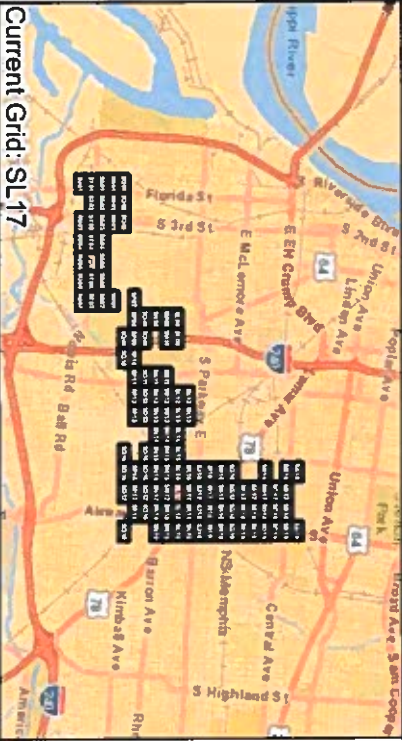
Pipe Rehab

- Point Repair Only (0)
- CIPP (2)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SL16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (2)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (2)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravelly Main (Rehab By Others)
- Gravelly Main (No Rehab)



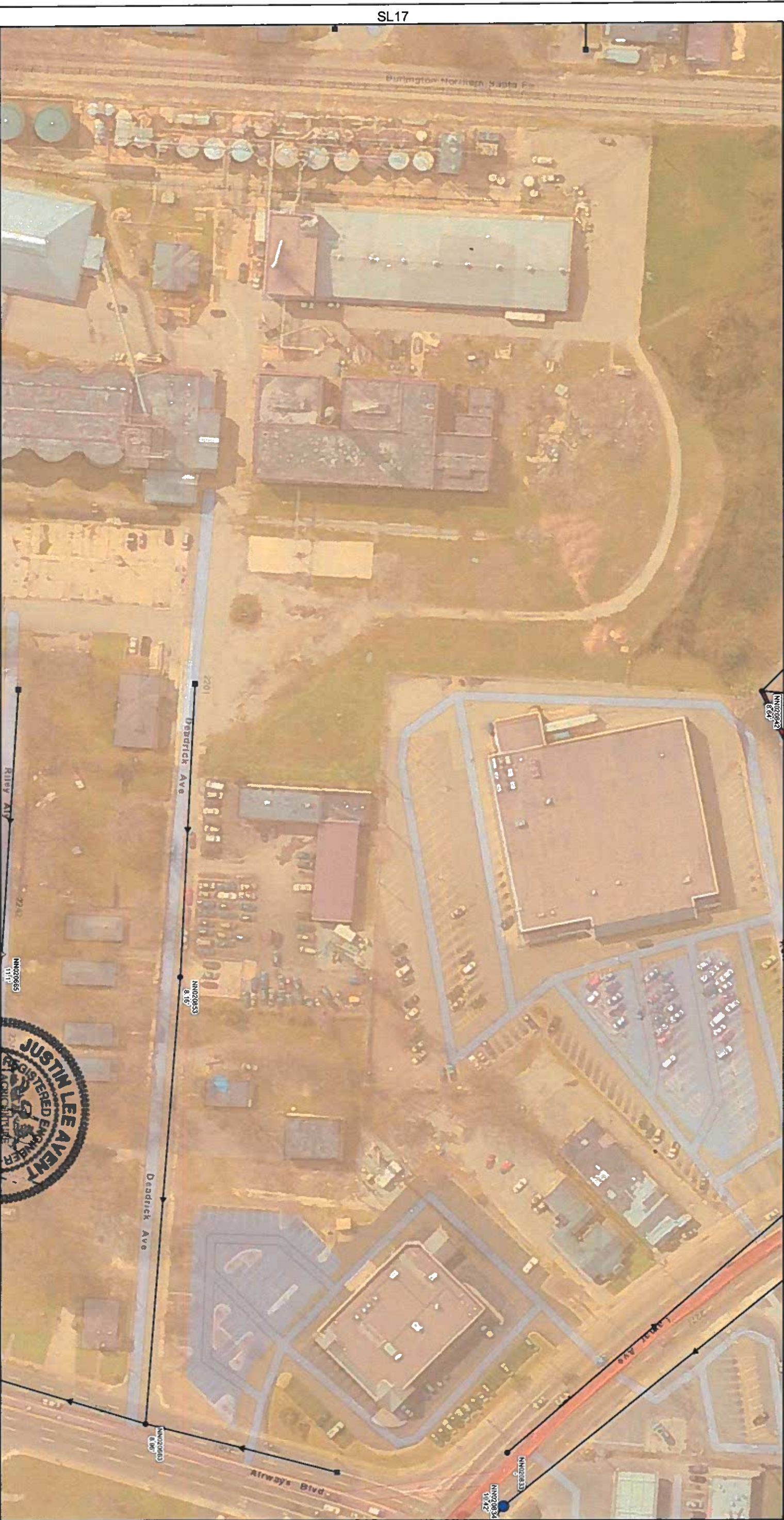
Group 1 Rehab Grid SL17

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SK17

SK18

SK19



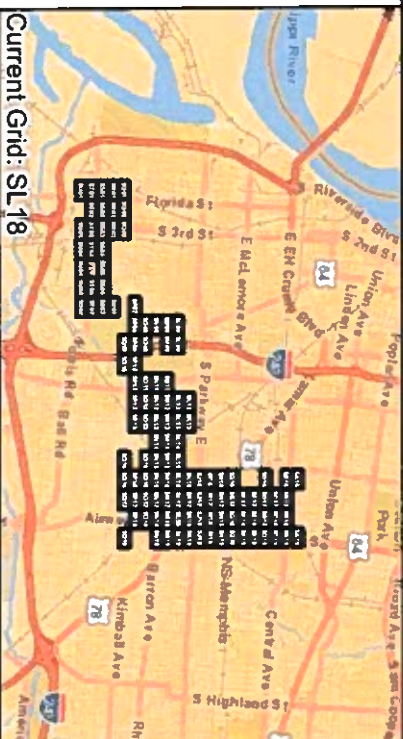
SL17

SL19

SM17

SM18

SM19



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (1)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

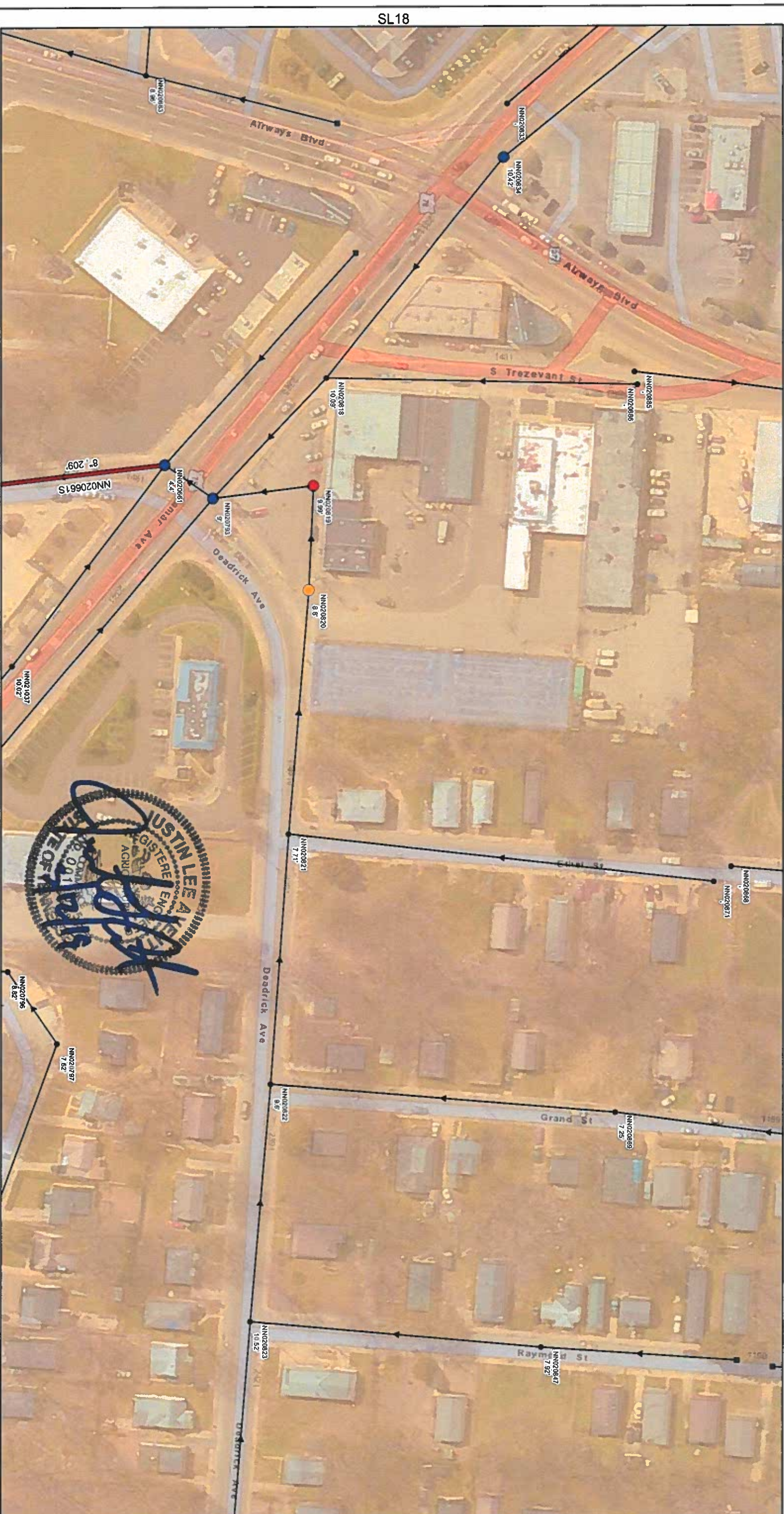
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



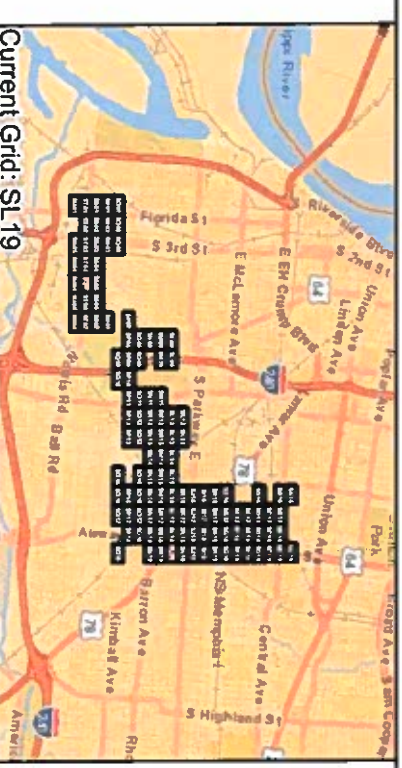
Group 1 Rehab Grid SL18

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SM18

SM19



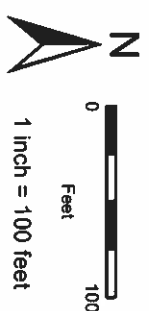
Current Grid: SL19

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (3)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (1)

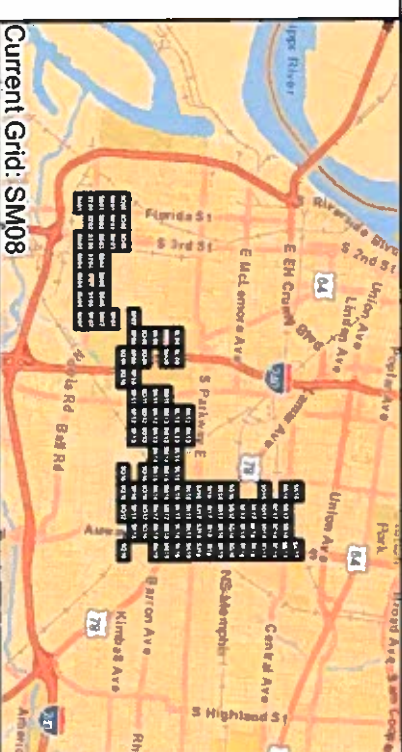
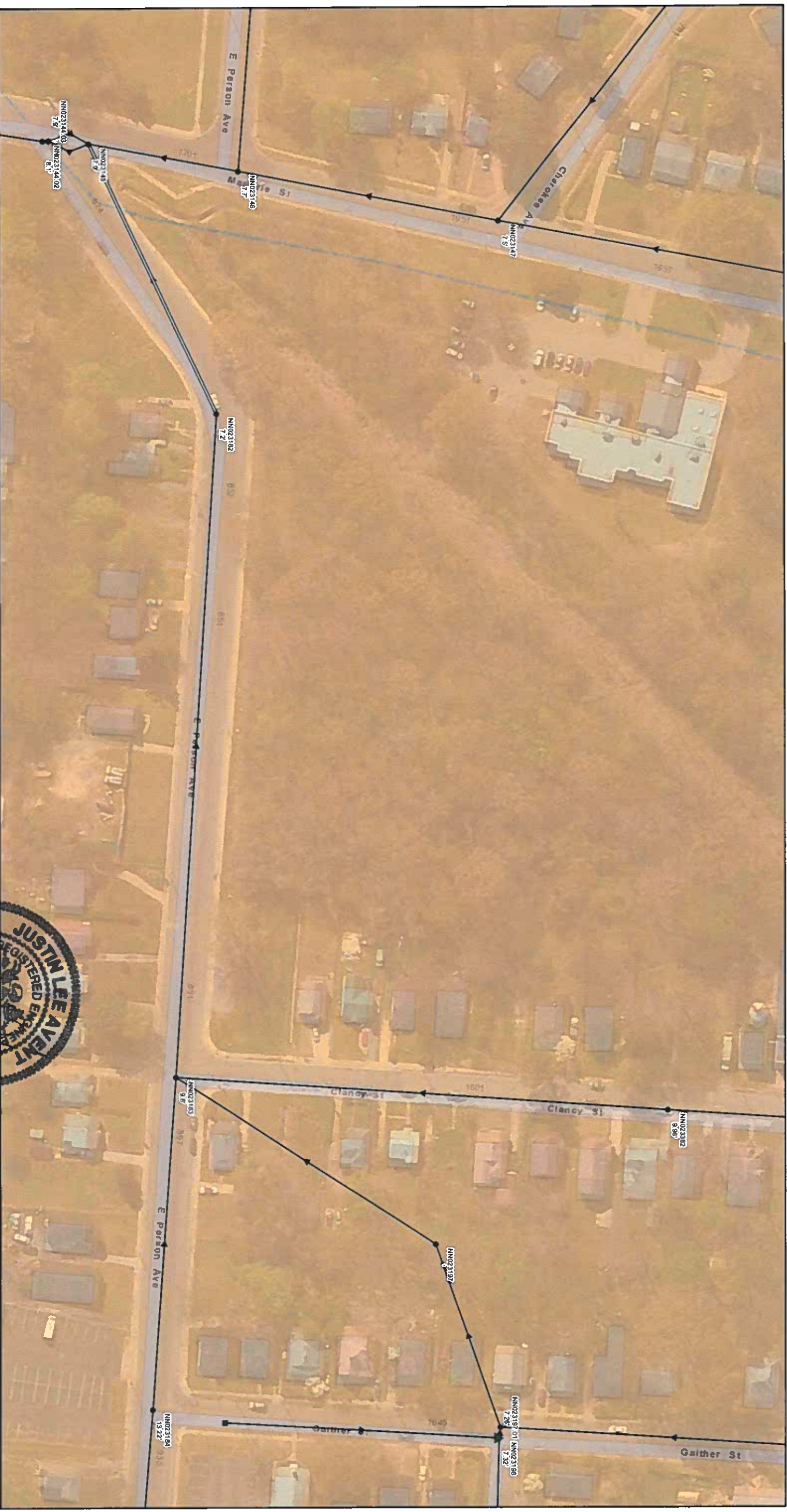
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SL19

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

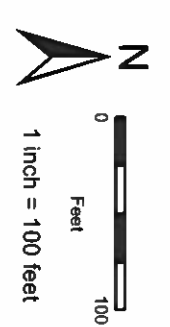
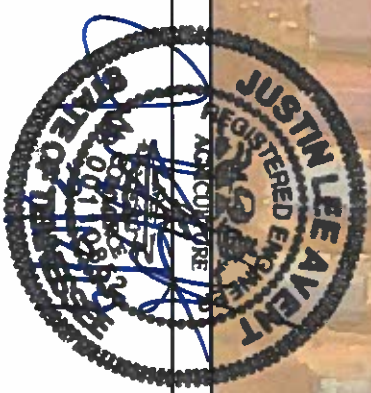


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

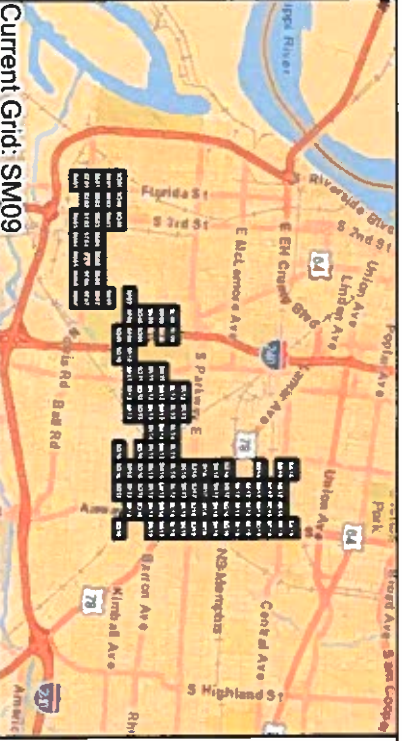
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ⊠ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SM08

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

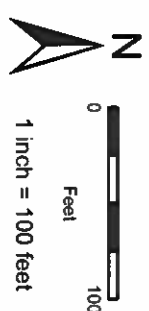


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

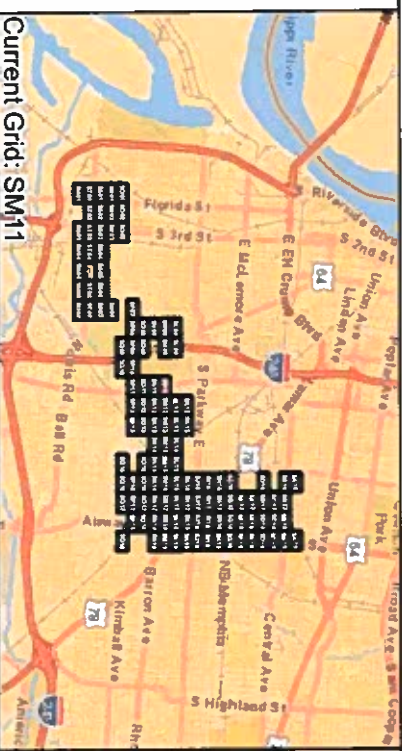
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ⊗ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

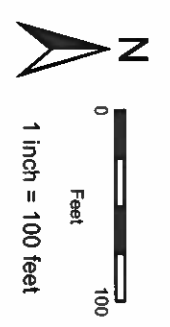


Group 1 Rehab Grid SM09

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (1)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (3)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



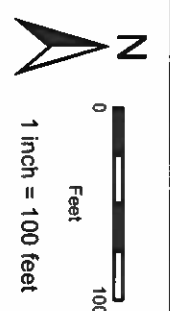
Group 1 Rehab Grid SM11

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



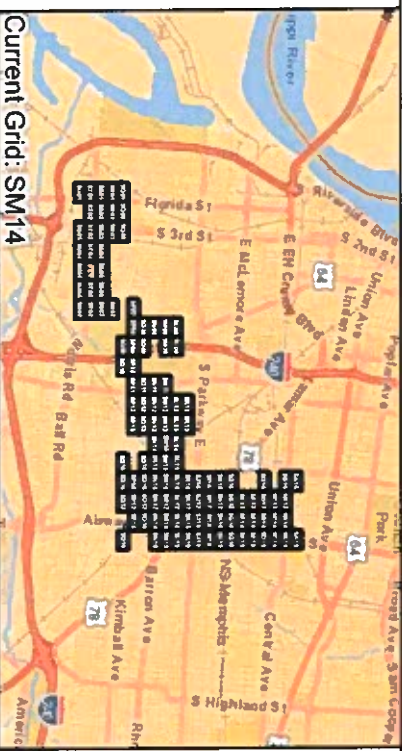
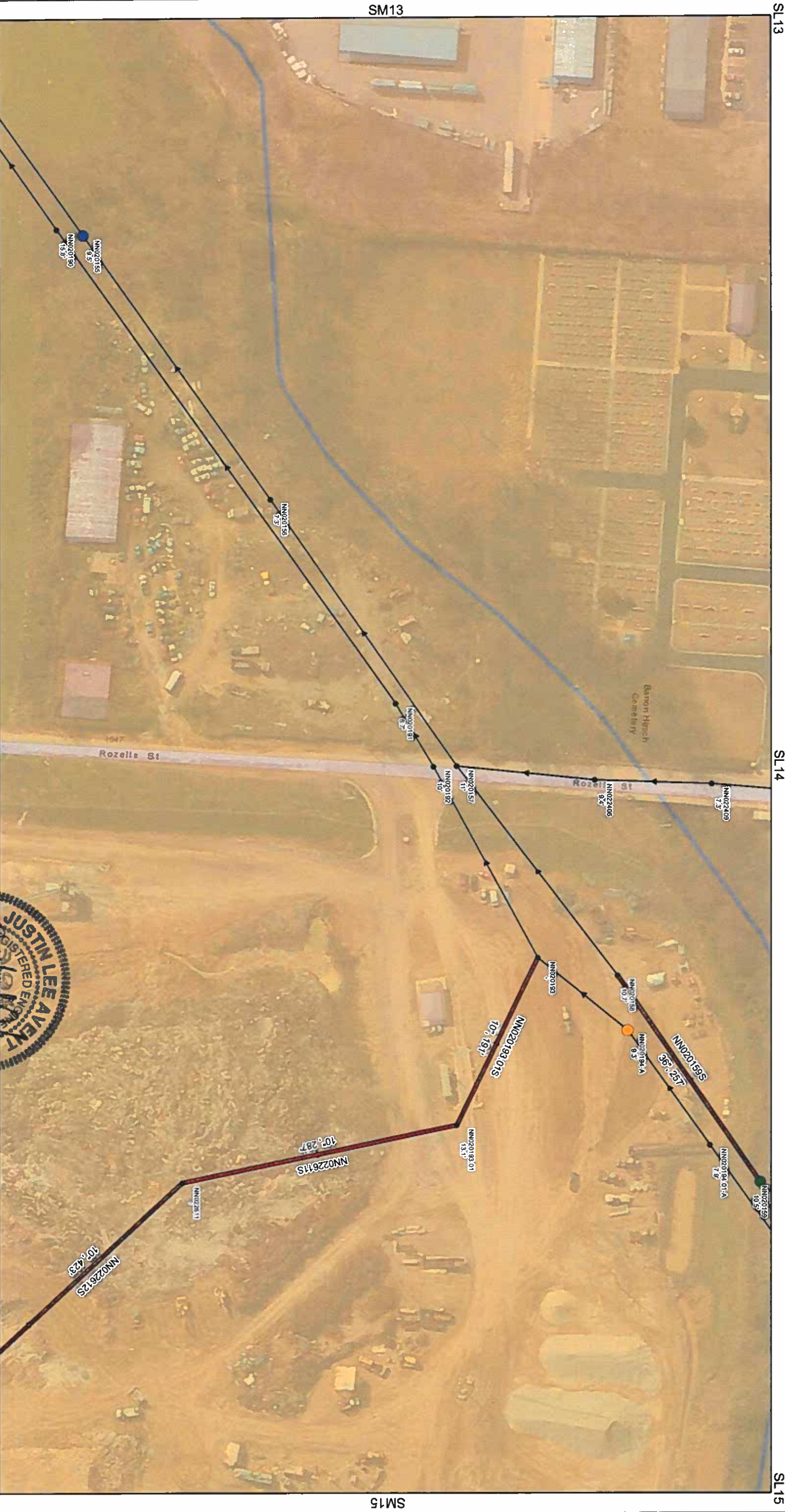
- Manhole Rehab**
- Install New Manhole (1)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CLPP (6)
 - Point Repair Location (2)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SM12

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

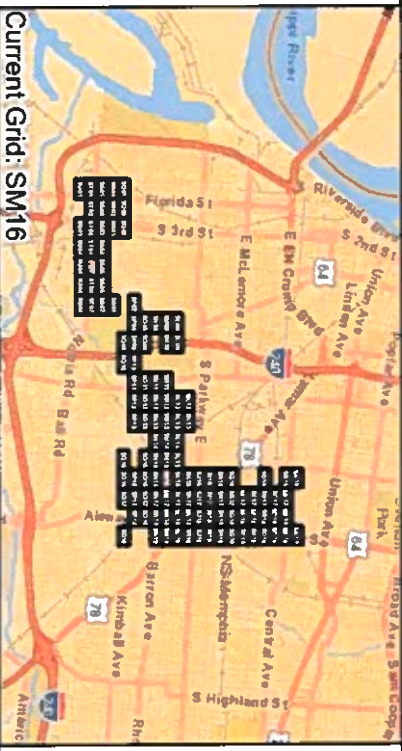
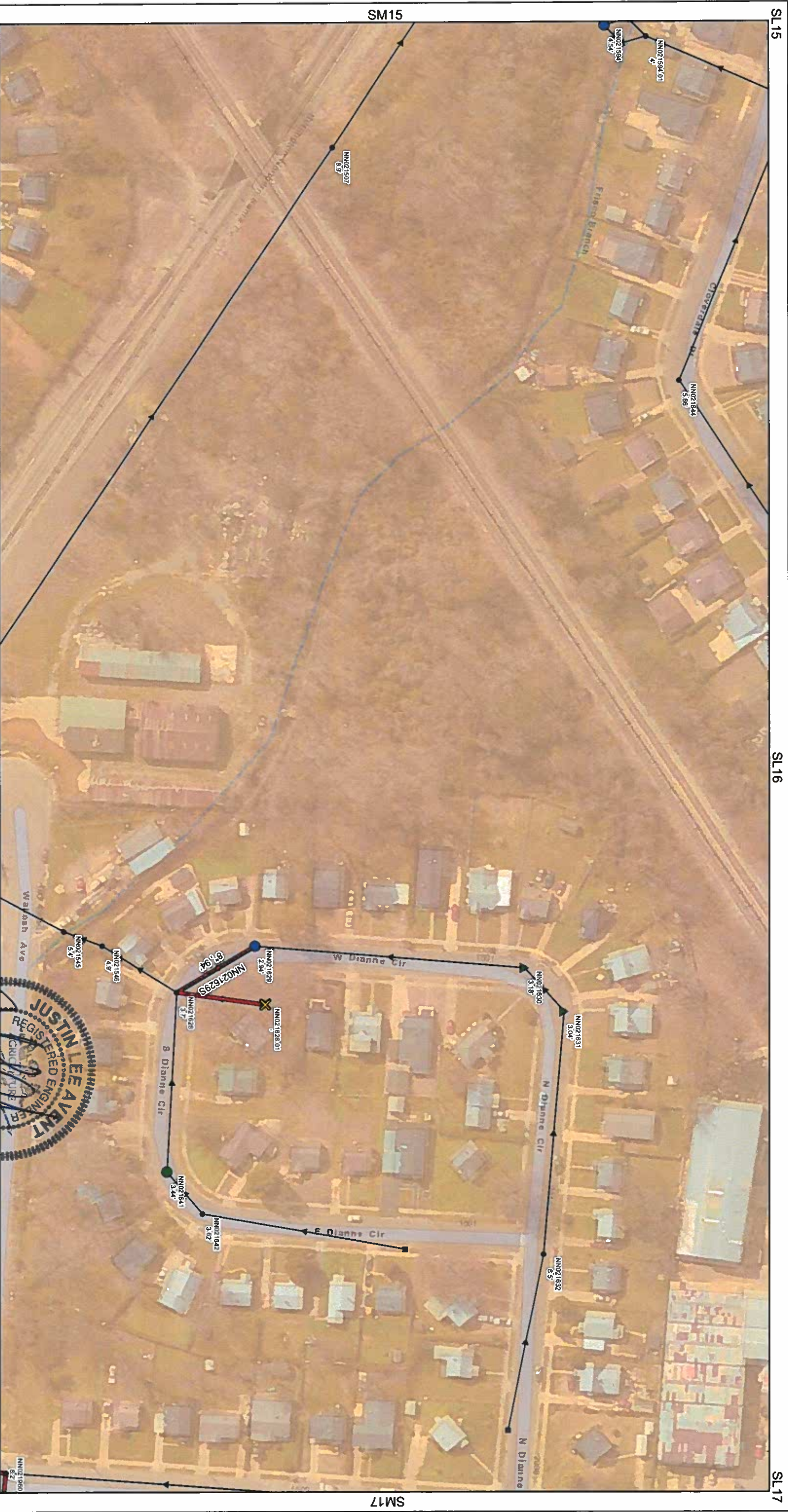


- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (1)
 - Cementitious Coating (1)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (4)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SM14

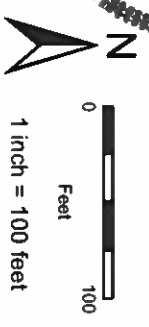
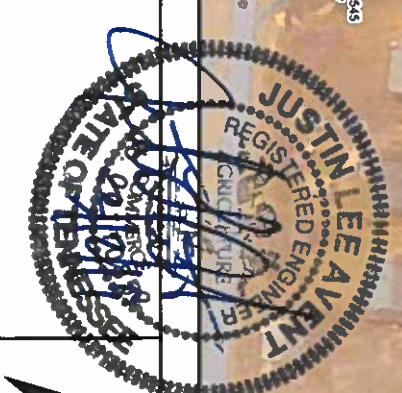
Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (2)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

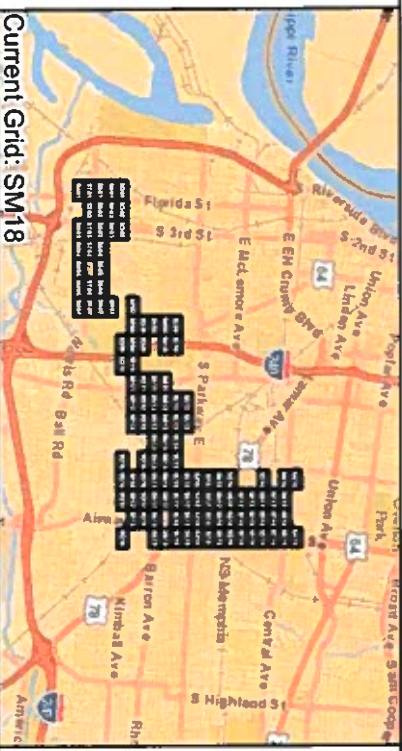
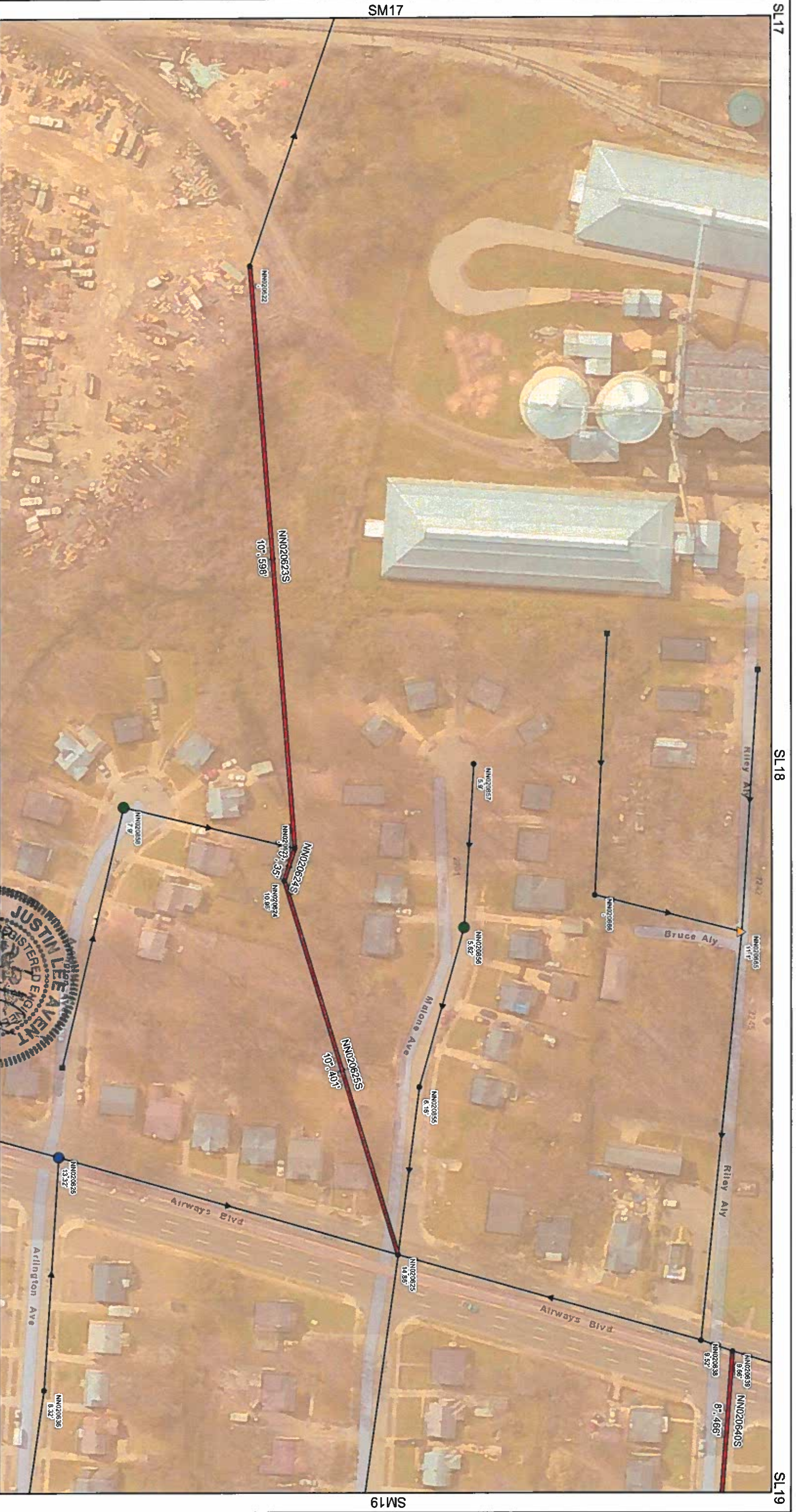
- ### Pipe Rehab
- Point Repair Only (0)
 - CI/PP (4)
 - Point Repair Location (1)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



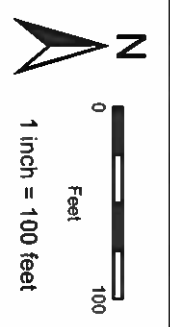
Group 1 Rehab Grid SM16

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (2)
 - Cementitious Coating and Install Inside Drop (1)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

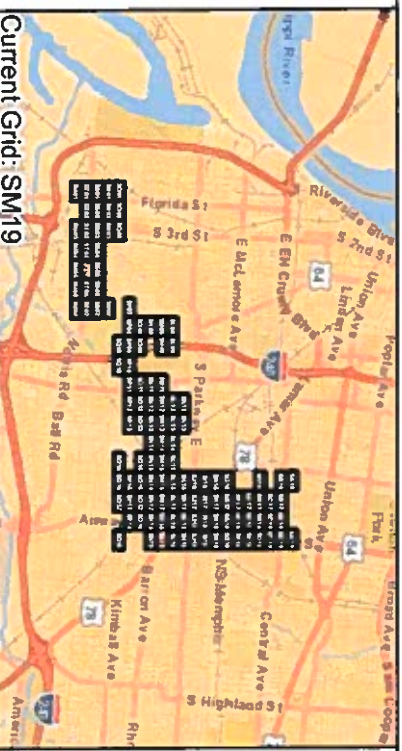
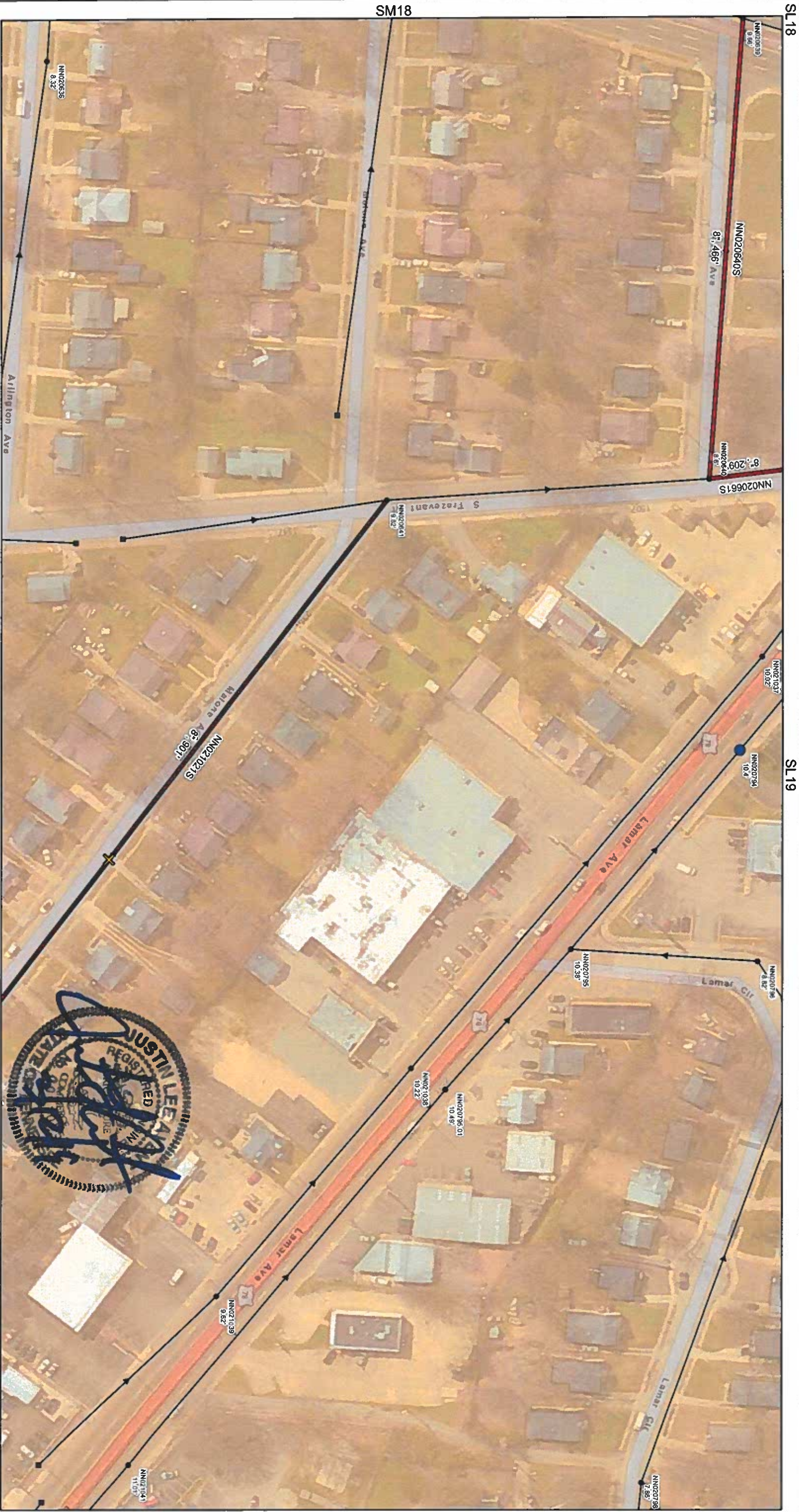
- ### Pipe Rehab
- Point Repair Only (0)
 - CI/PP (4)
 - Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



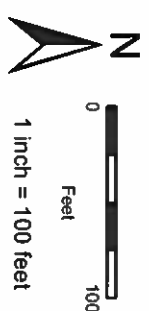
Group 1 Rehab Grid SM18

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

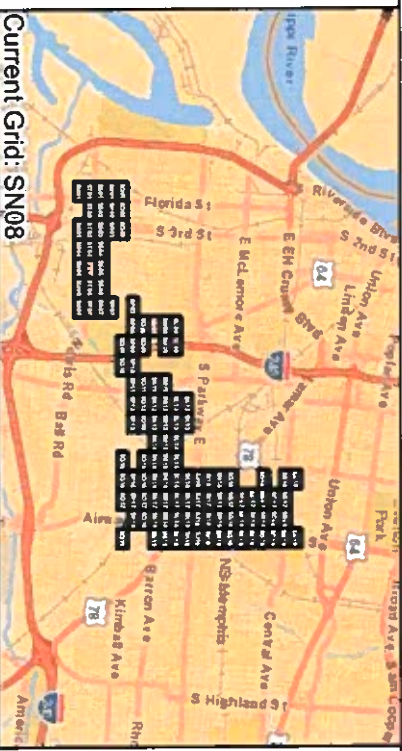


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (3)
 - Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



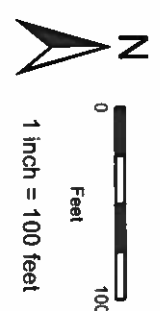
Group 1 Rehab Grid SM19

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (1)
 - ⊠ Point Repair Location (1)
 - Install New Manhole (Rehab By Others)
 - ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravidy Main (Rehab By Others)
 - Gravidy Main (No Rehab)



Group 1 Rehab Grid SN08

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SM13

SM14

SM15

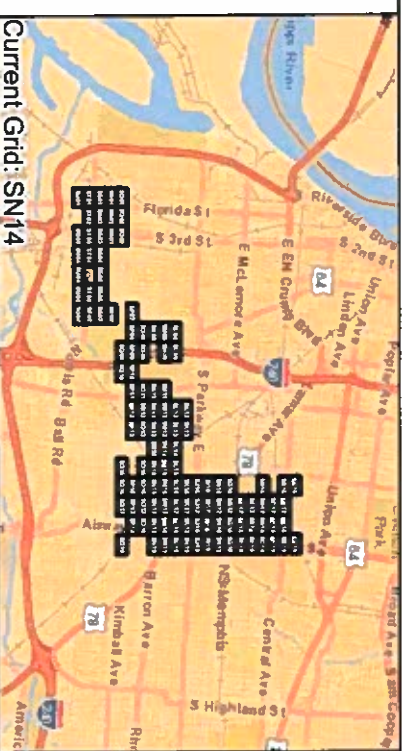


SN13

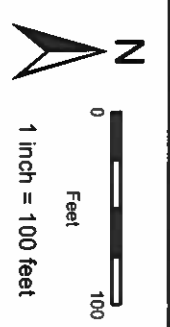
SN15

SO13

SO15

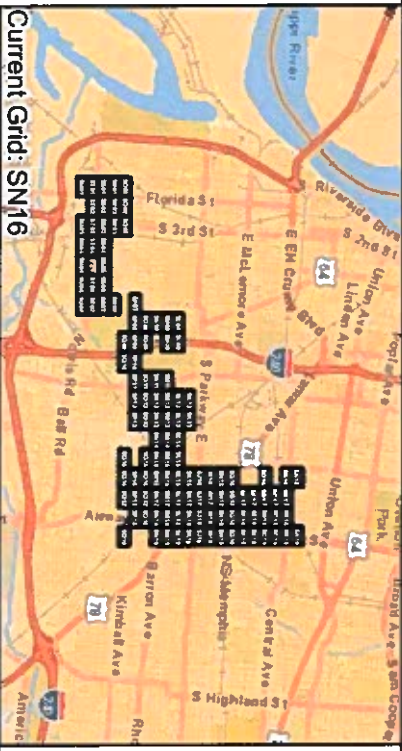


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (3)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SN14

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

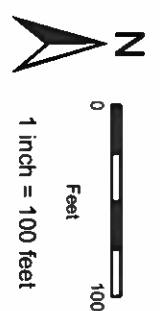


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (1)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CI/PP (3)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SN16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SN17

SN19

SO17

SO18



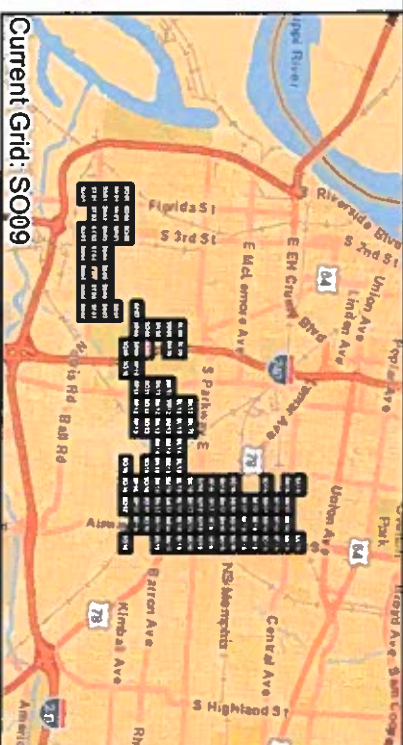
- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (1)
 - ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



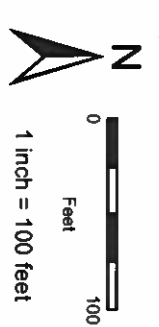
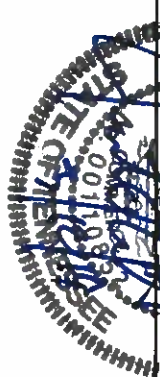
Group 1 Rehab Grid SN18

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (2)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (1)
 - ✕ Point Repair Location (1)
- ### Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

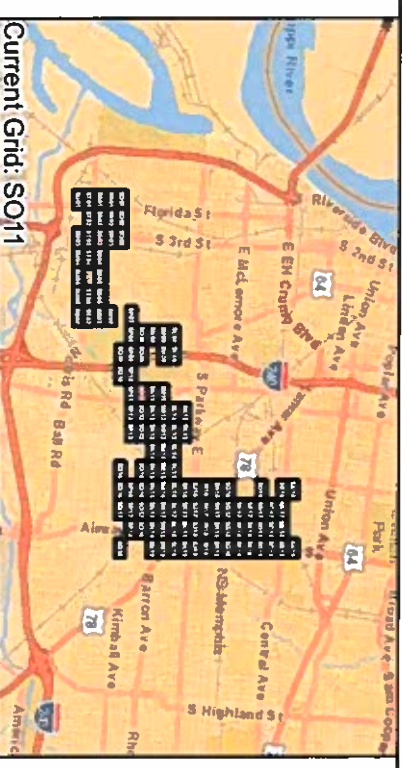
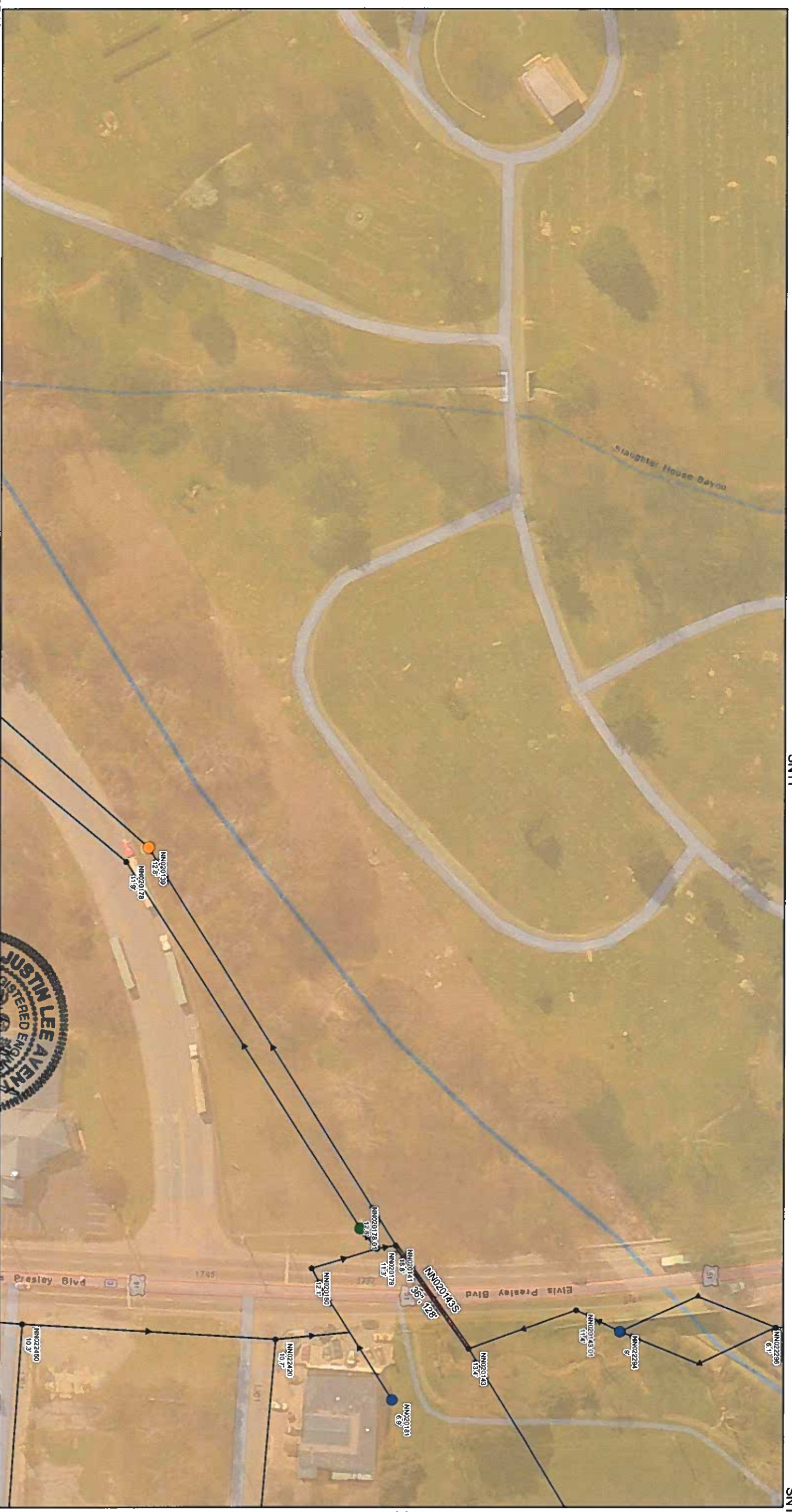


Group 1 Rehab Grid SO09

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SN11

SN12



Manhole Rehab

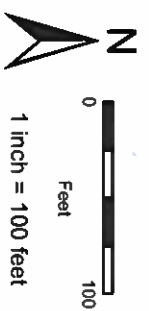
- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (2)
- Repair Bench/Channel (1)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✕ Point Repair Location (0)

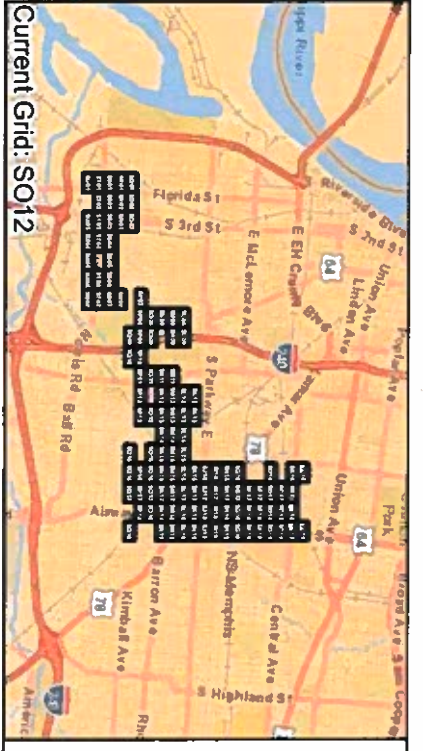
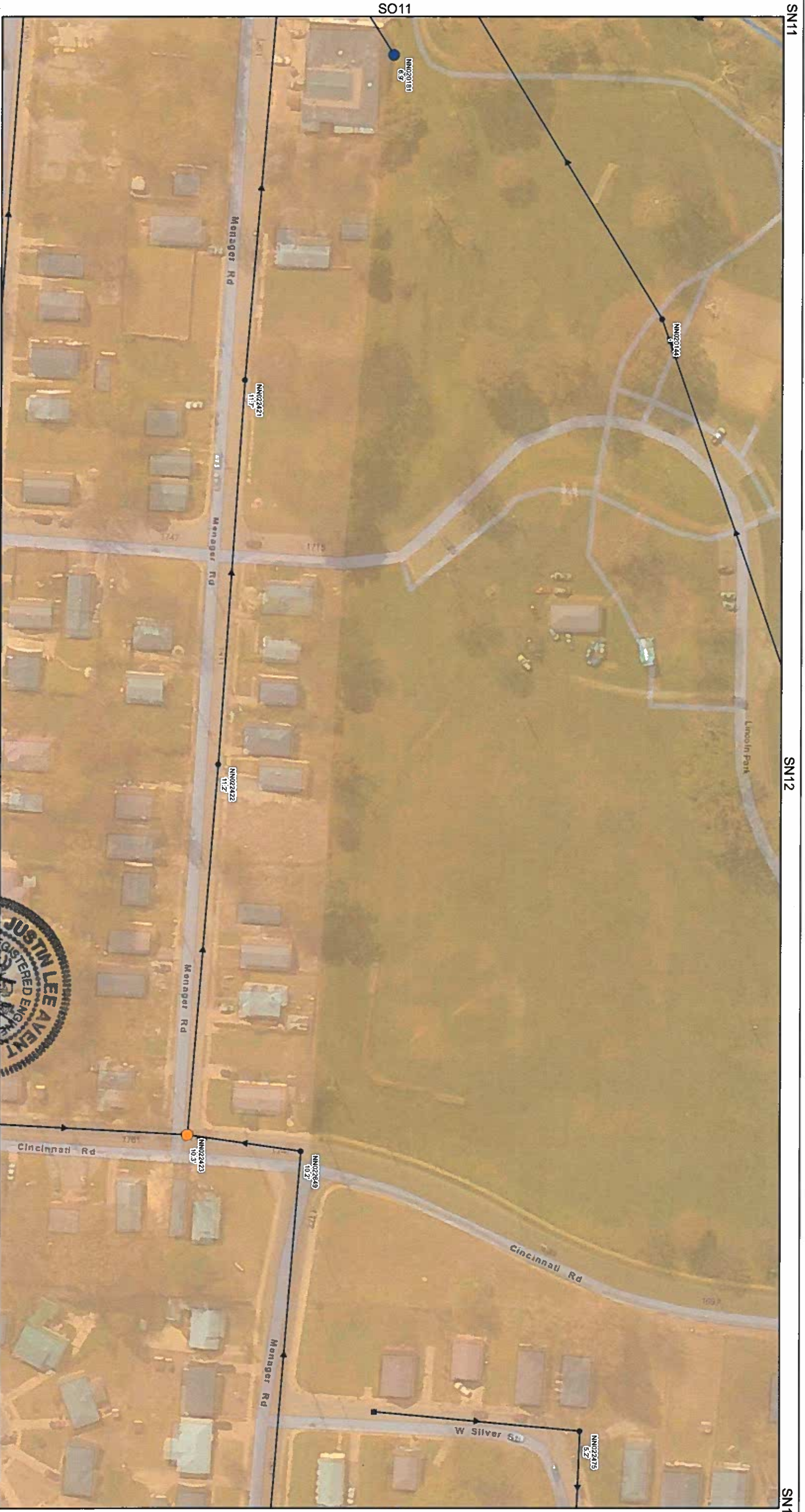
□ Install New Manhole (Rehab By Others)

- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SO11

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

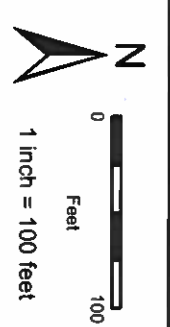


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

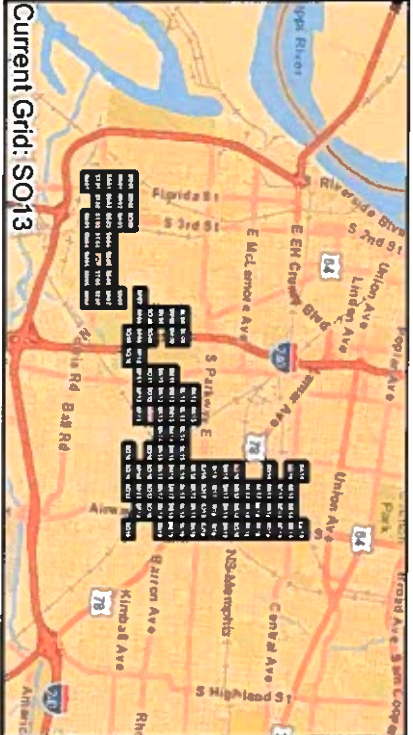
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

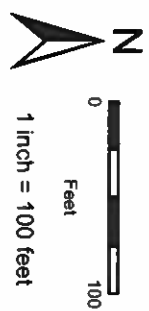


Group 1 Rehab Grid SO12

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (1)
 - Point Repair Location (0)
 - Install New Manhole (Rehab By Others)
 - Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SO13

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

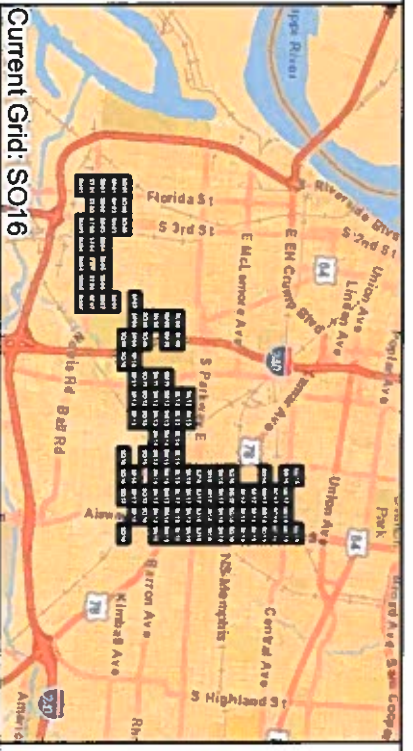
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ⊠ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

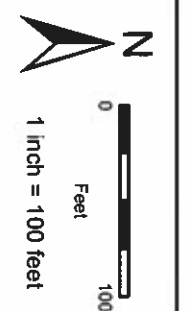


Group 1 Rehab Grid SO15

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (0)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SO16

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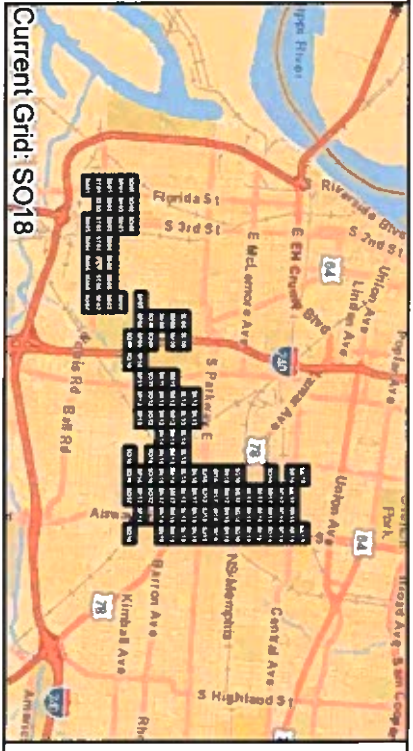
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SO17

SP17

SP18



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (0)
 - ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SO18

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



S008

SP08

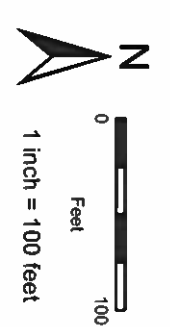


Manhole Rehab

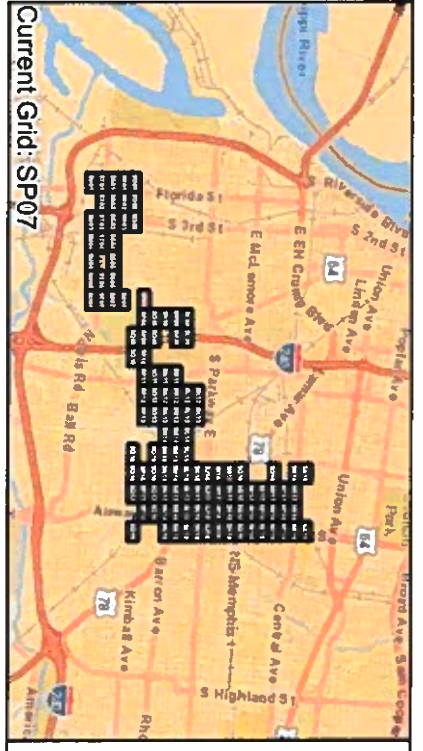
- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

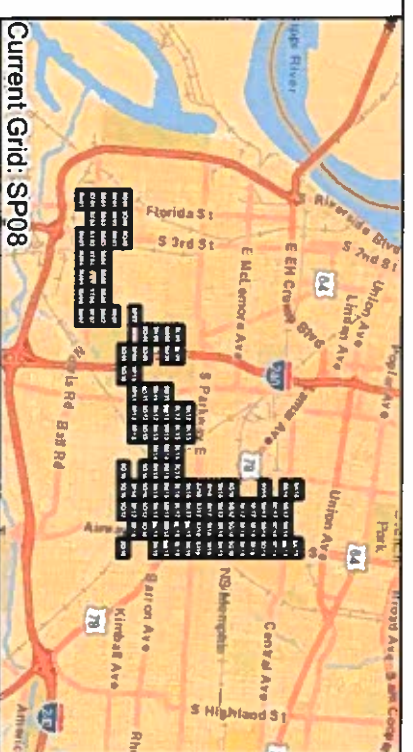
- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SP07



Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (1)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

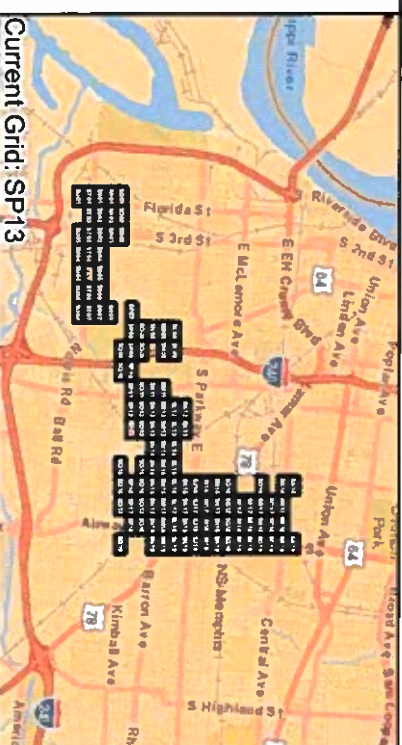
Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SP08

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

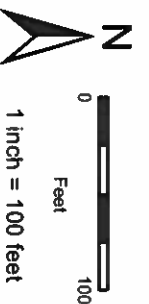


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SP13

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

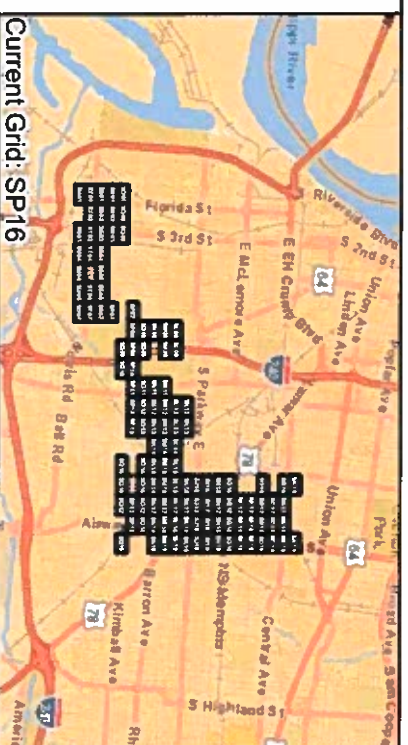


SQ15

SQ16

SQ17

SP17

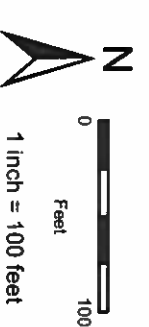


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (4)
- Repair Bench/Channel (1)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

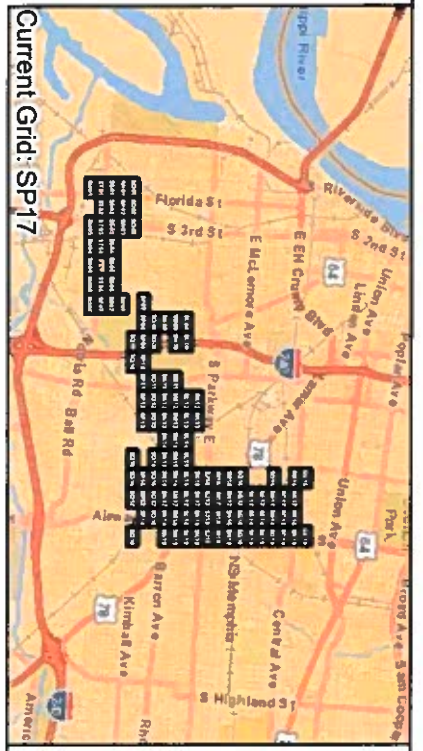
Pipe Rehab

- Point Repair Only (0)
- CIPP (4)
- ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

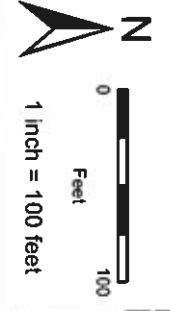


Group 1 Rehab Grid SP16

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (2)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (0)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SP17

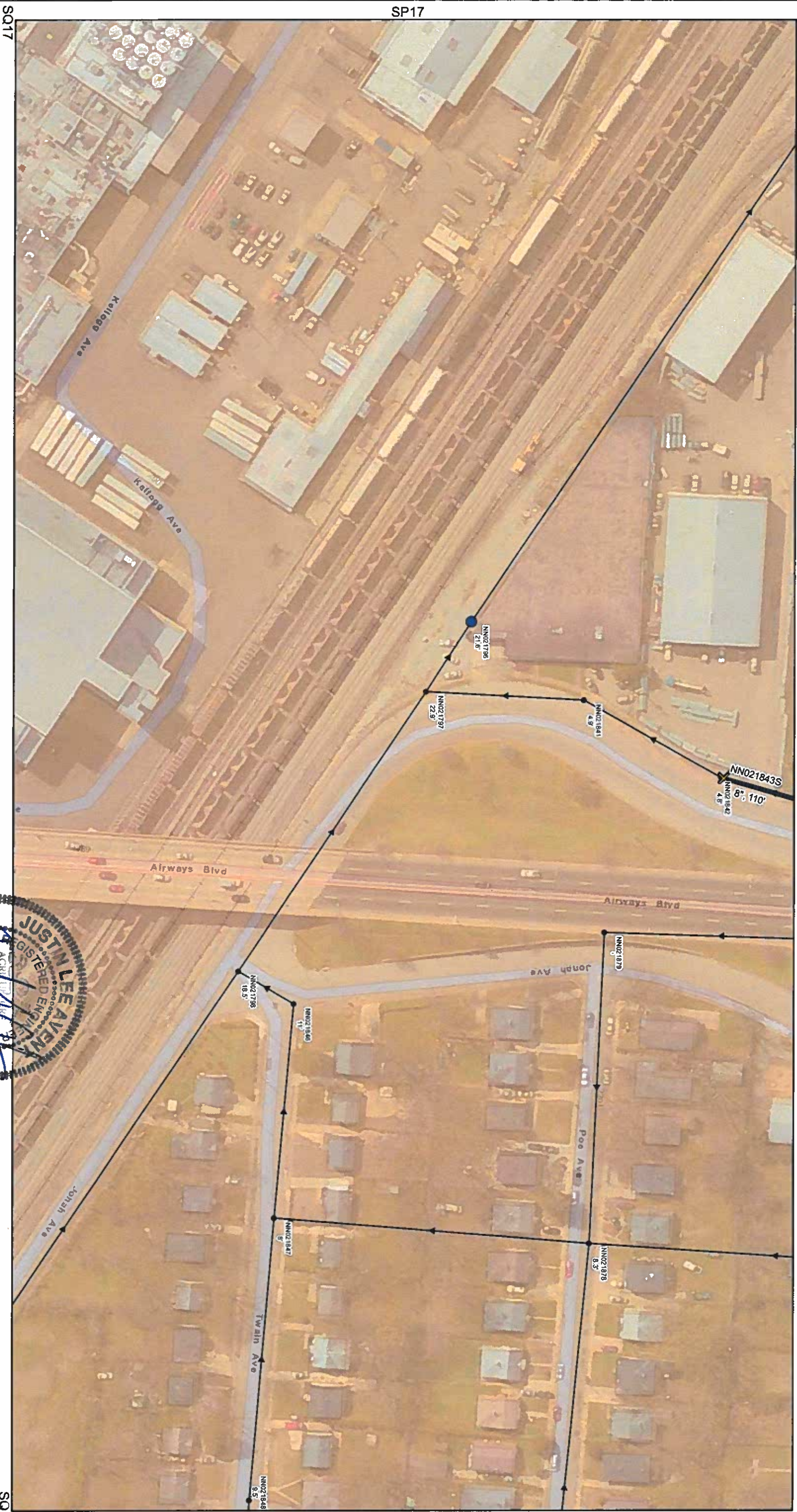
Page 146 of 179

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SO17

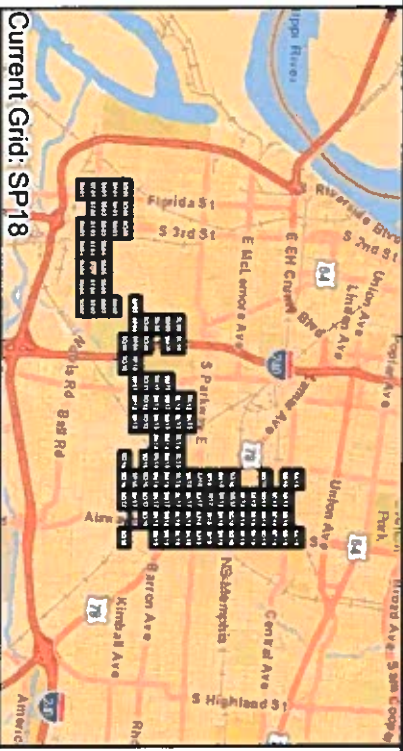
SO18

SP17



SO17

SO19

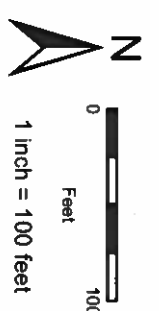


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ✗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SP18

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SR01

SR02

SQ02

Manhole Rehab

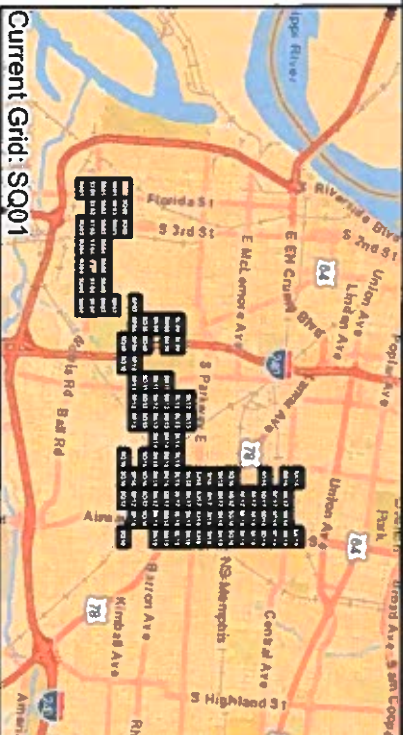
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

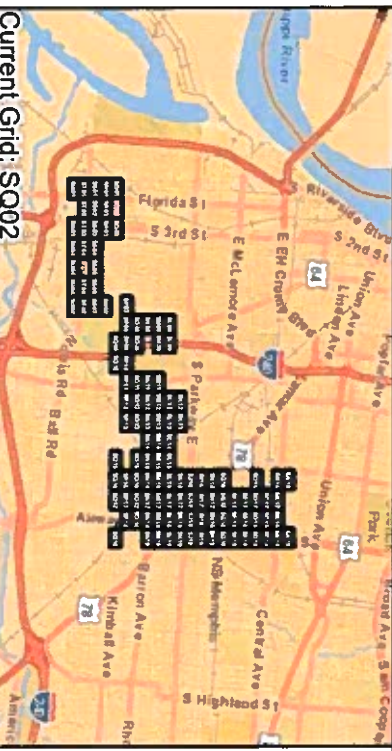


Group 1 Rehab Grid SQ01



Current Grid: SQ01

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

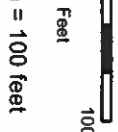


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

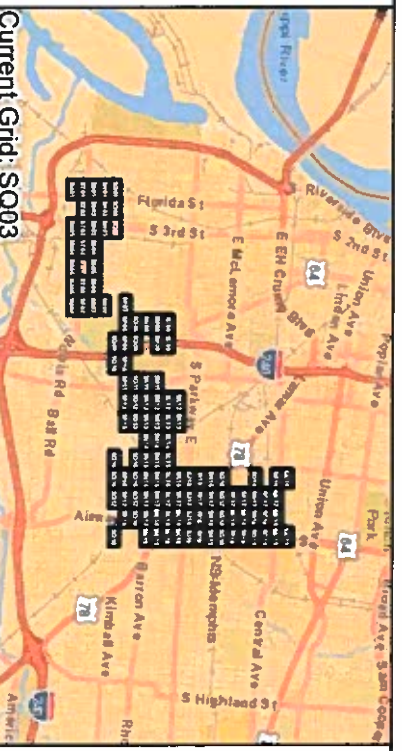
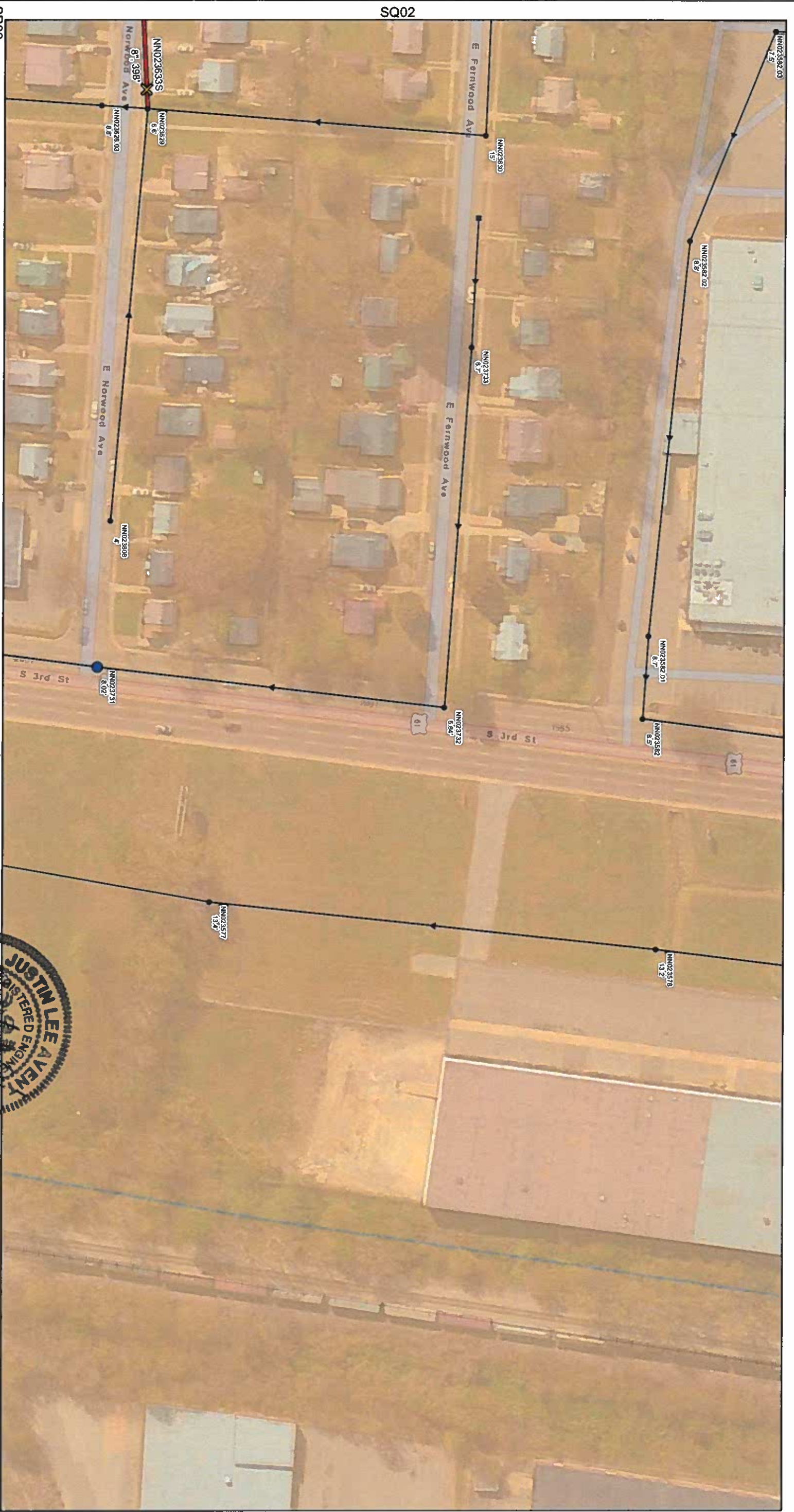
Pipe Rehab

- Point Repair Only (0)
- CIPP (2)
- ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SQ02

Note: Recorded manhole firm to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

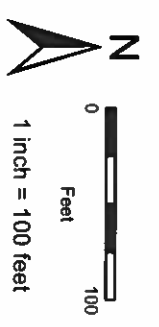


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SQ03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

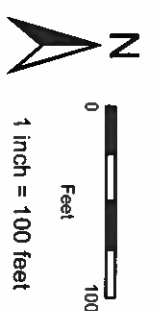
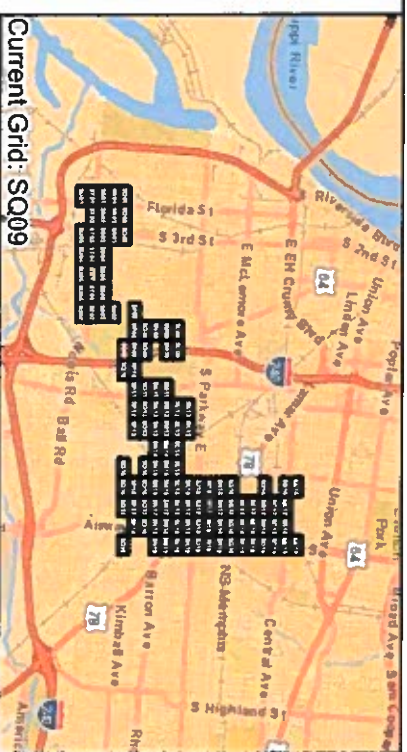


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (2)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

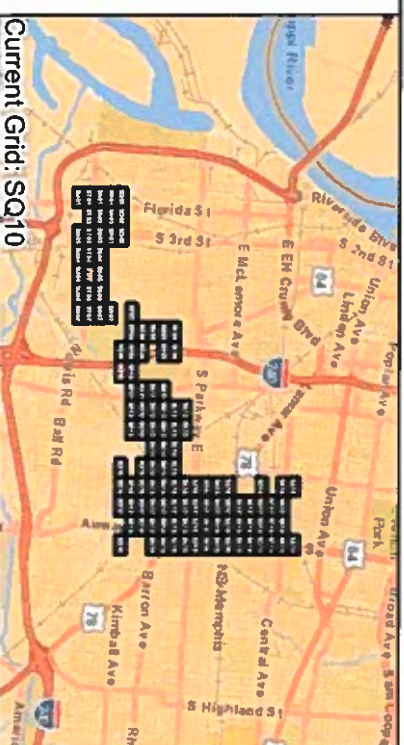
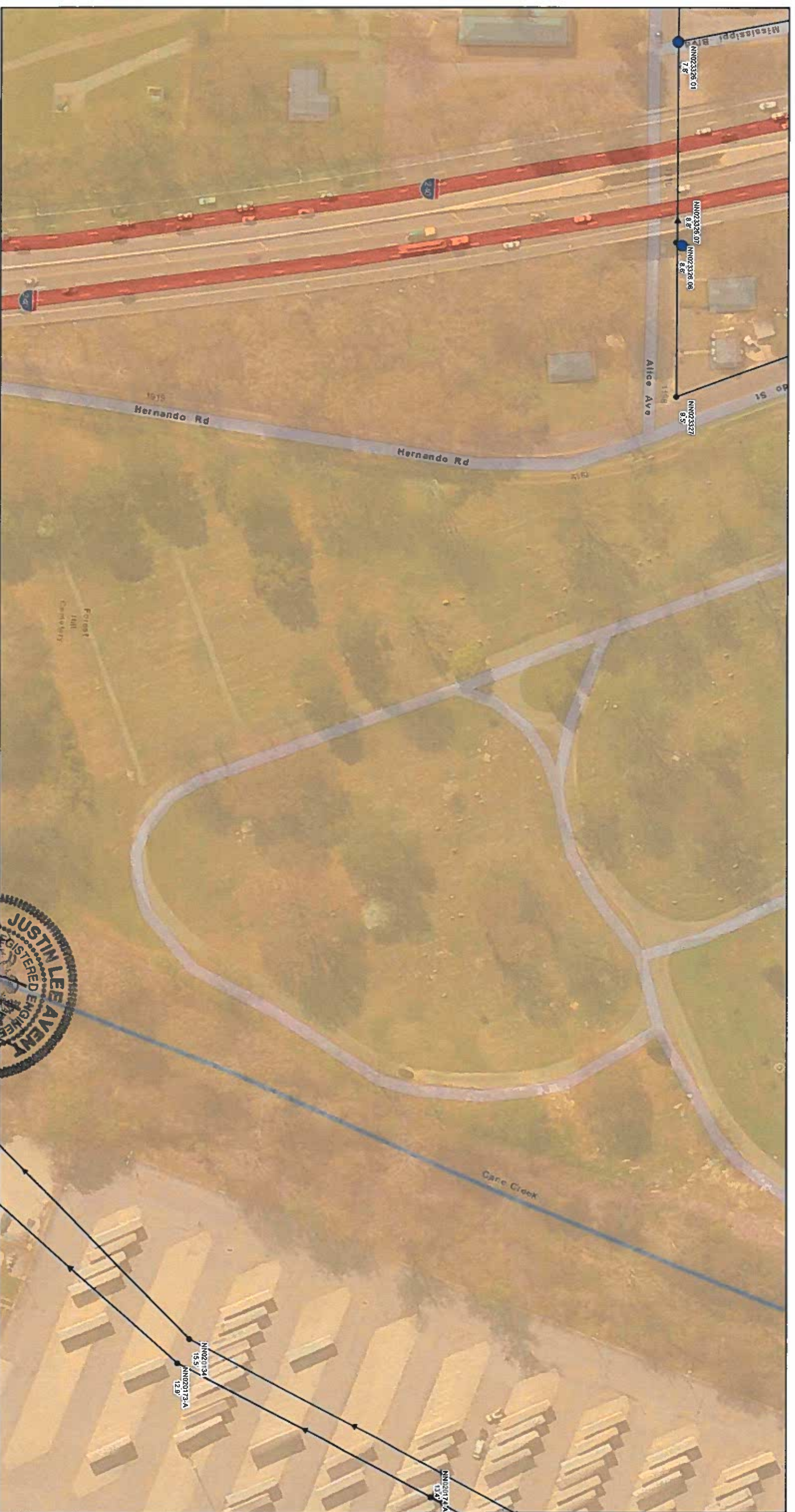
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✕ Point Repair Location (4)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SQ09

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



Manhole Rehab

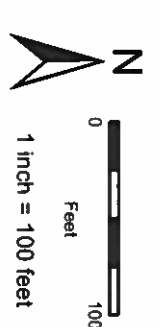
- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)

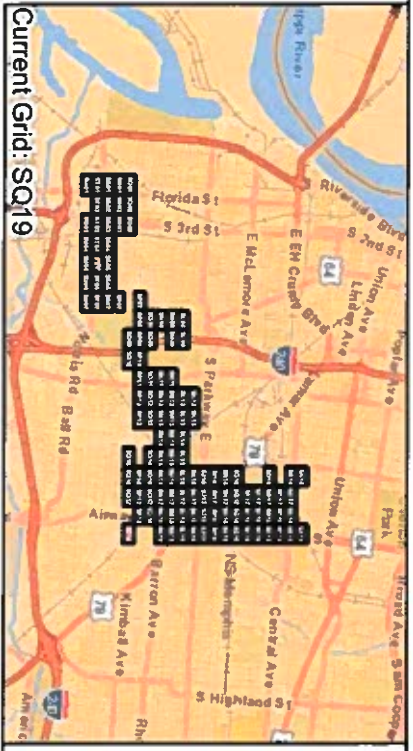
Install New Manhole (Rehab By Others)

- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SQ10

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

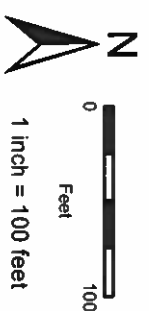


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

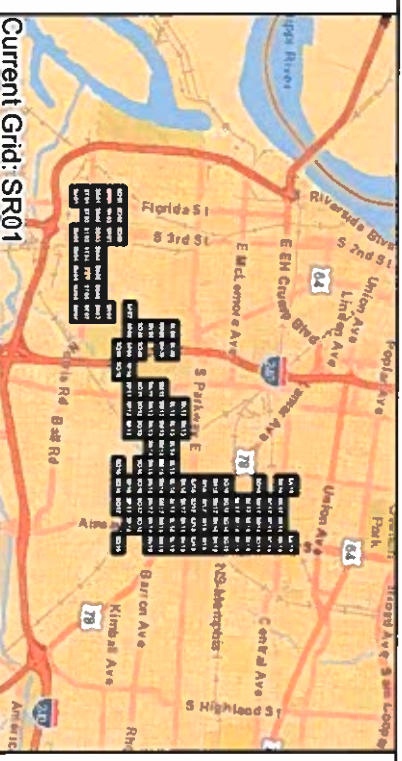
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SQ19

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

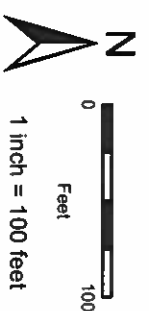


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (1)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

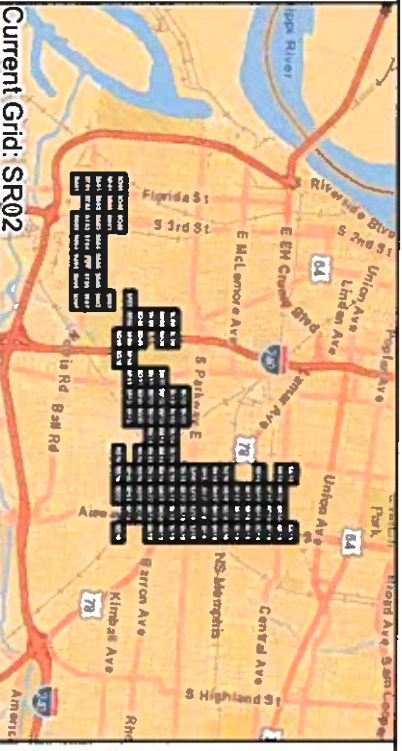
Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- ⊗ Point Repair Location (3)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SR01

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

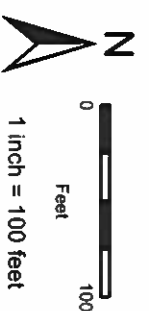


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (2)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

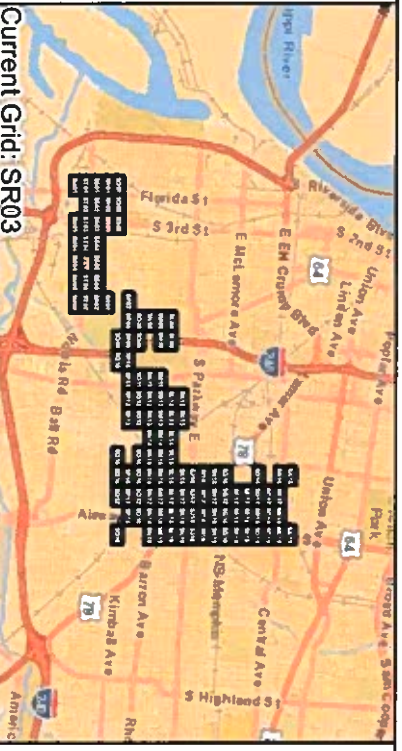
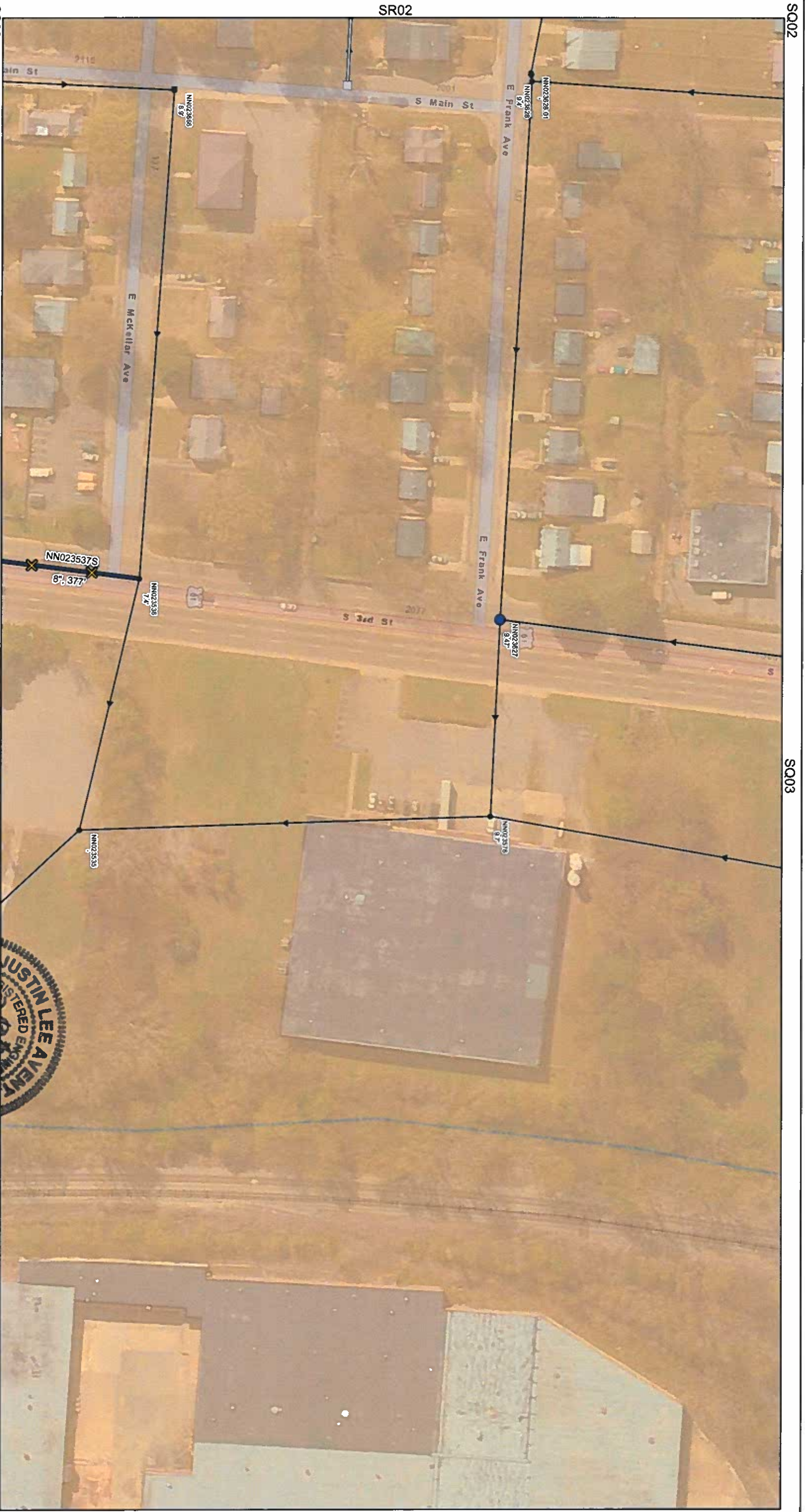
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SR02

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

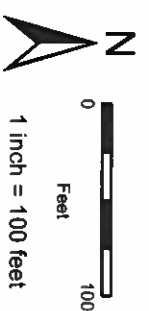


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

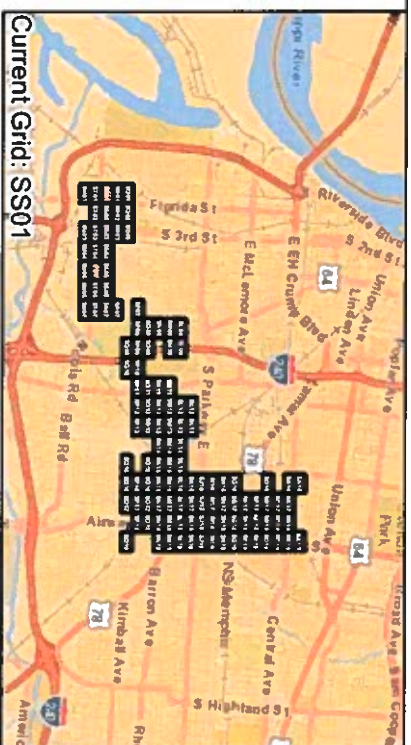
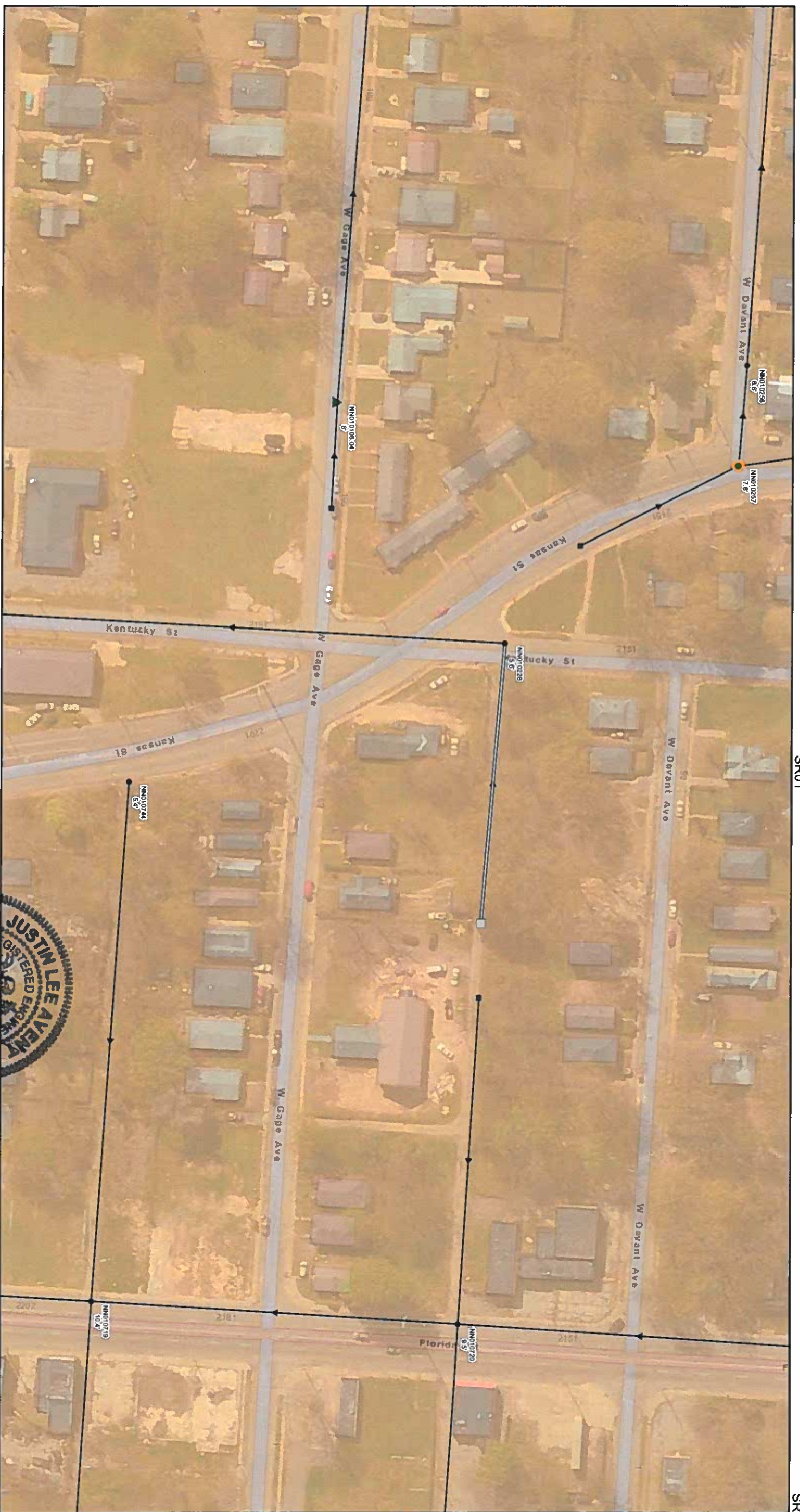
Pipe Rehab

- Point Repair Only (1)
- CIPP (0)
- X Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravidly Main (Rehab By Others)
- Gravidly Main (No Rehab)

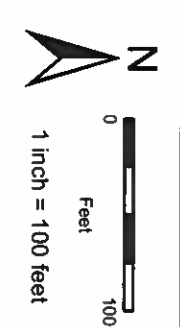


Group 1 Rehab Grid SR03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



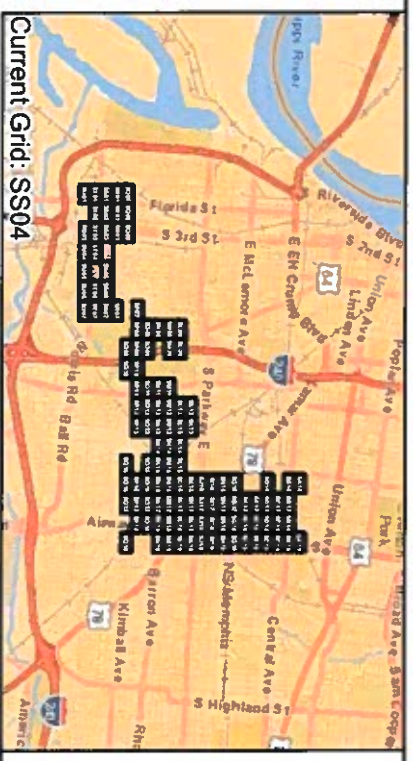
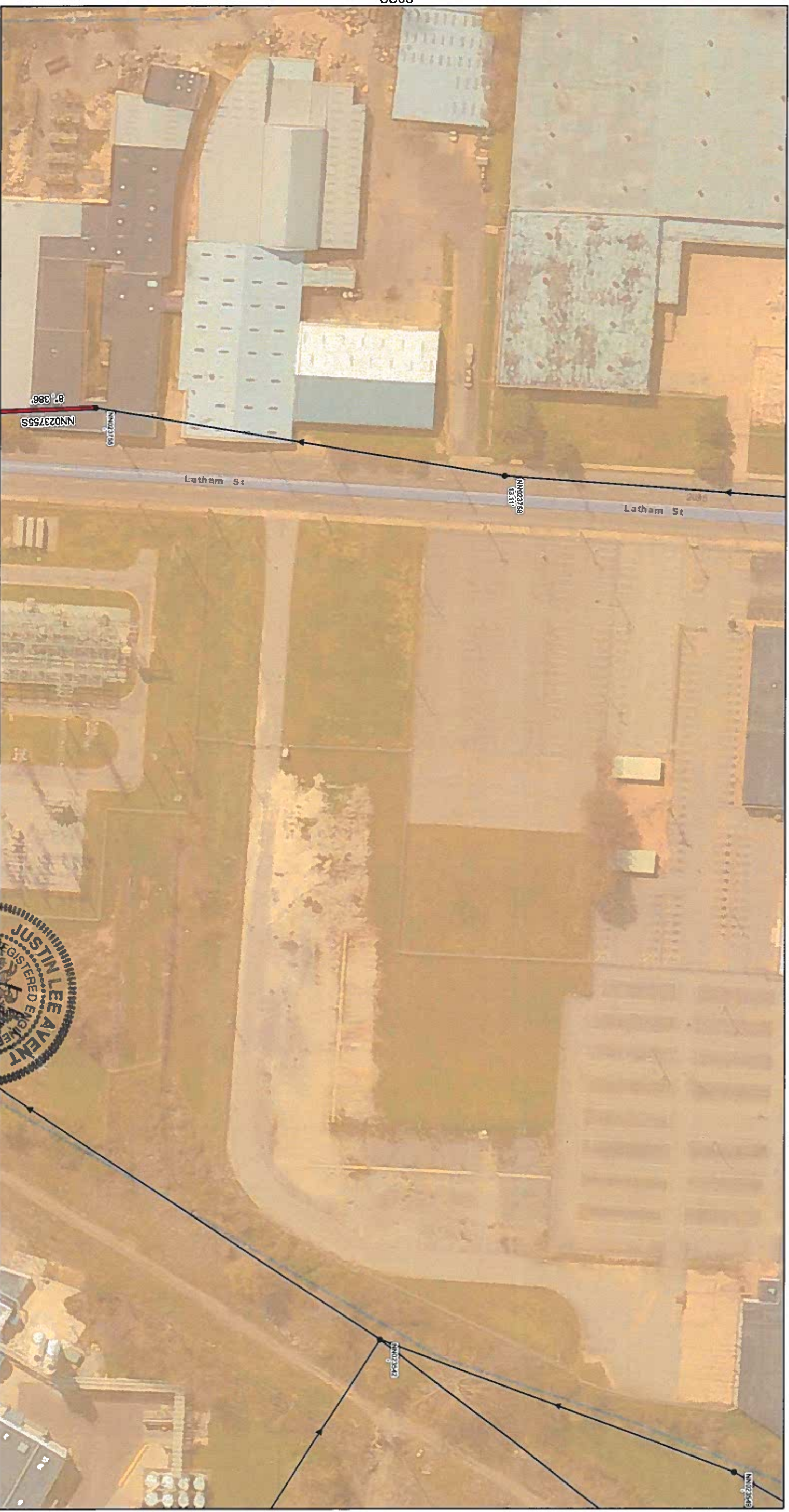
- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (1)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (0)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



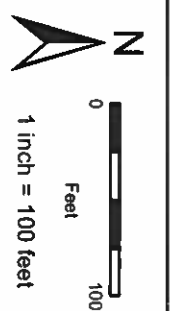
Group 1 Rehab Grid SS01

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Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

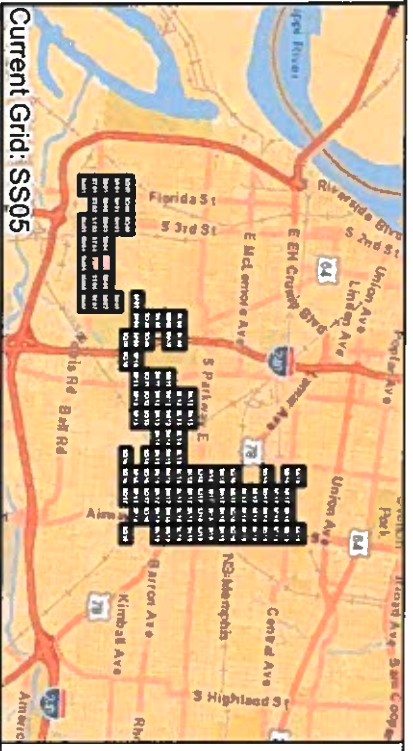
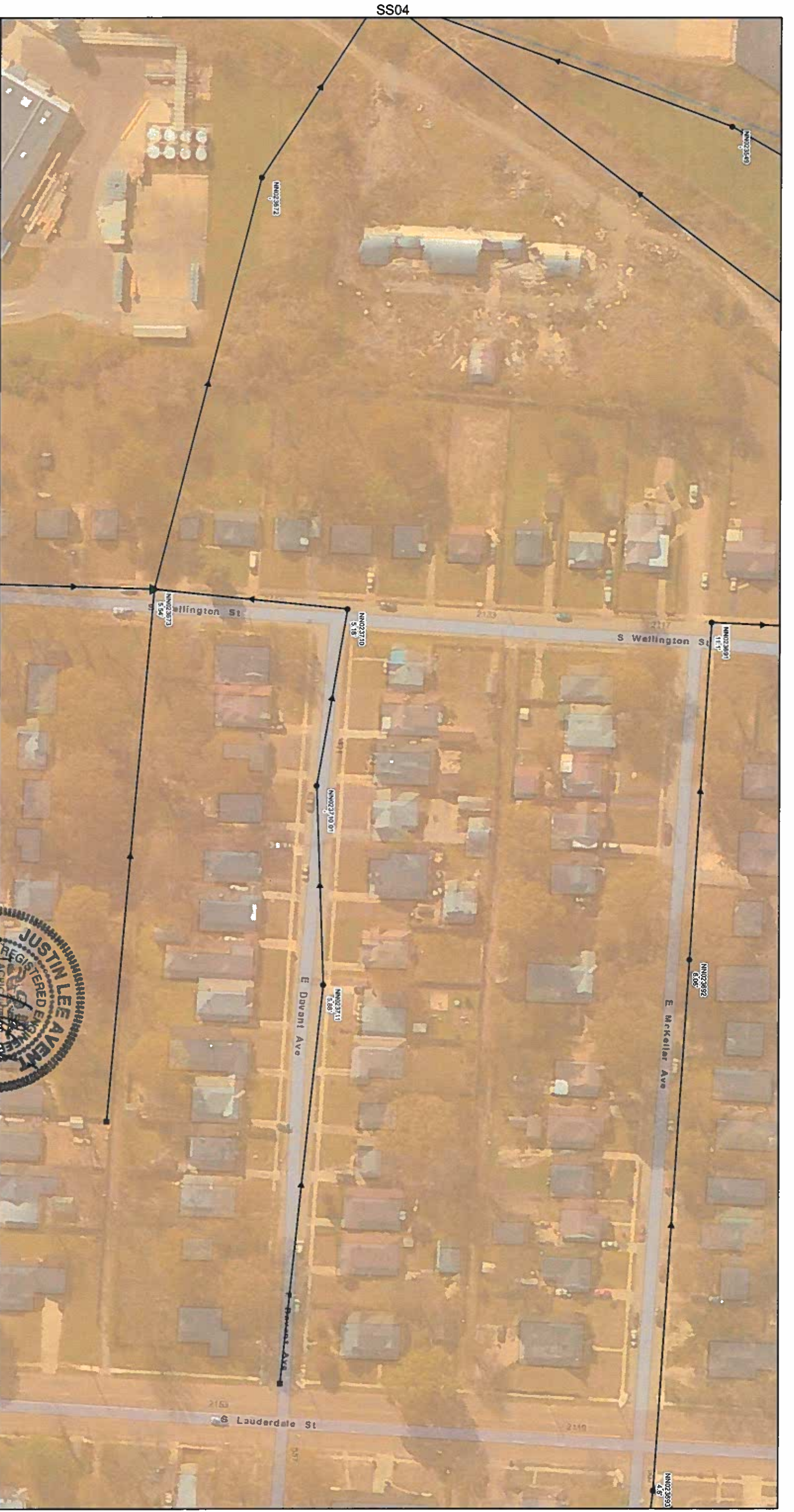


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (1)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)

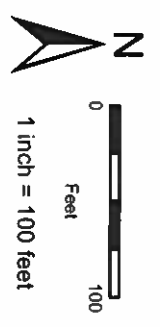


Group 1 Rehab Grid SS04

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (0)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SS05

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SS05

SS07

ST06

ST07

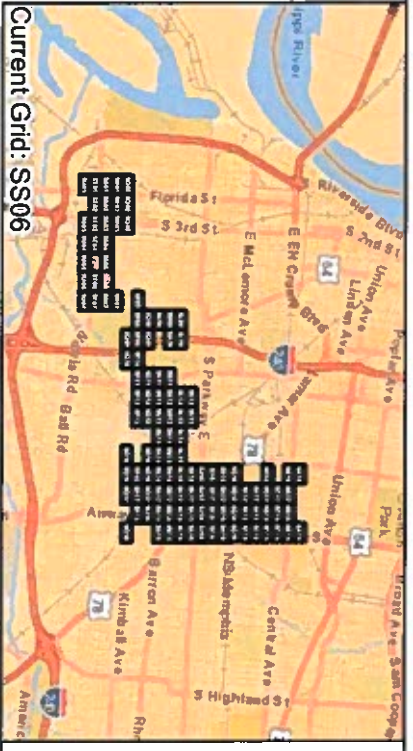


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (1)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SS06

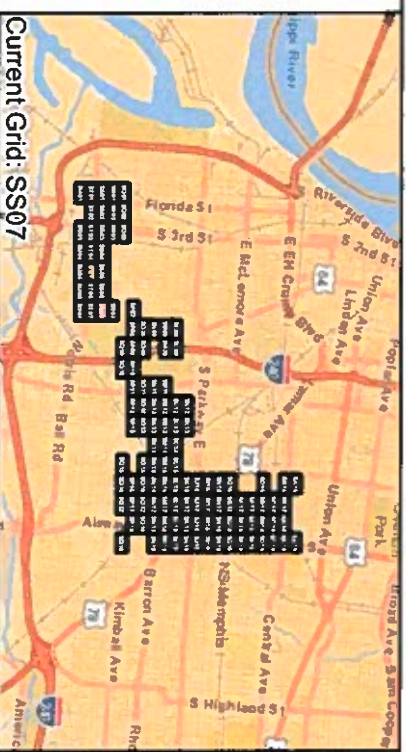
Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



ST06

SS06

ST07



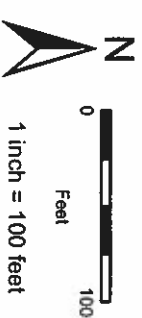
Current Grid: SS07

Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (3)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (1)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

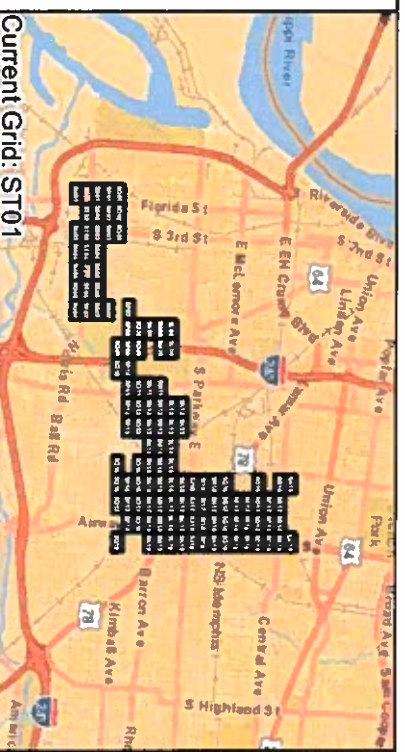
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SS07

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (2)
 - ✕ Point Repair Location (1)



- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid ST01

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

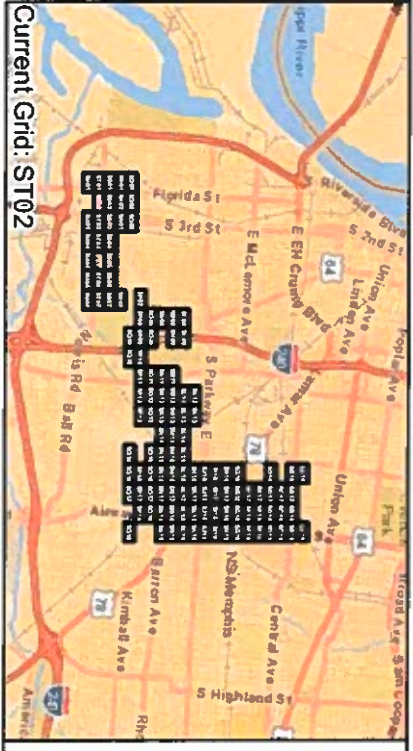


ST01

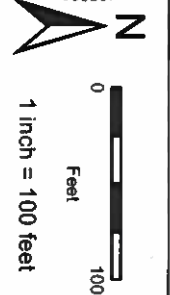
ST03

SU01

SU03



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (1)
 - Cementitious Coating and Install Inside Drop (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- ### Pipe Rehab
- Point Repair Only (1)
 - CIPP (1)
 - Point Repair Location (2)
- Install New Manhole
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



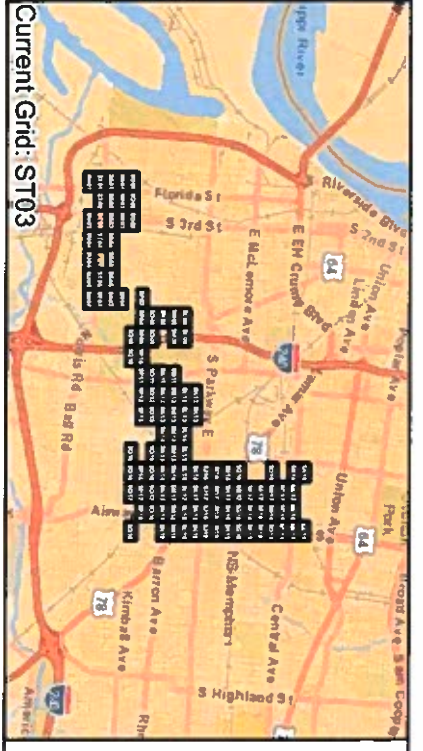
Group 1 Rehab Grid ST02

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

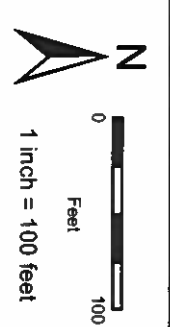
SS02

SS03

SS04

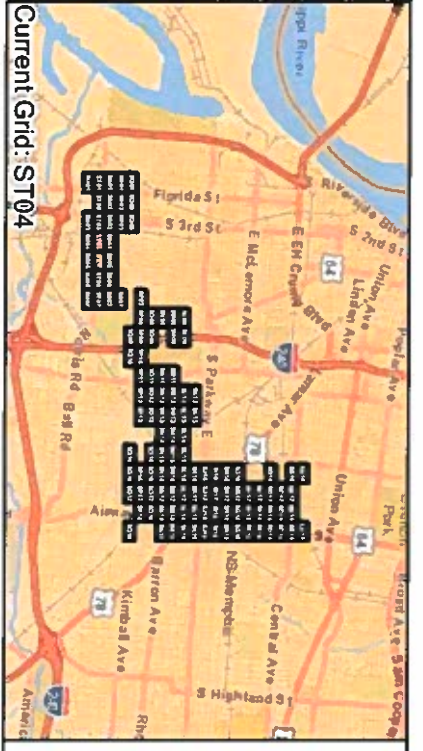
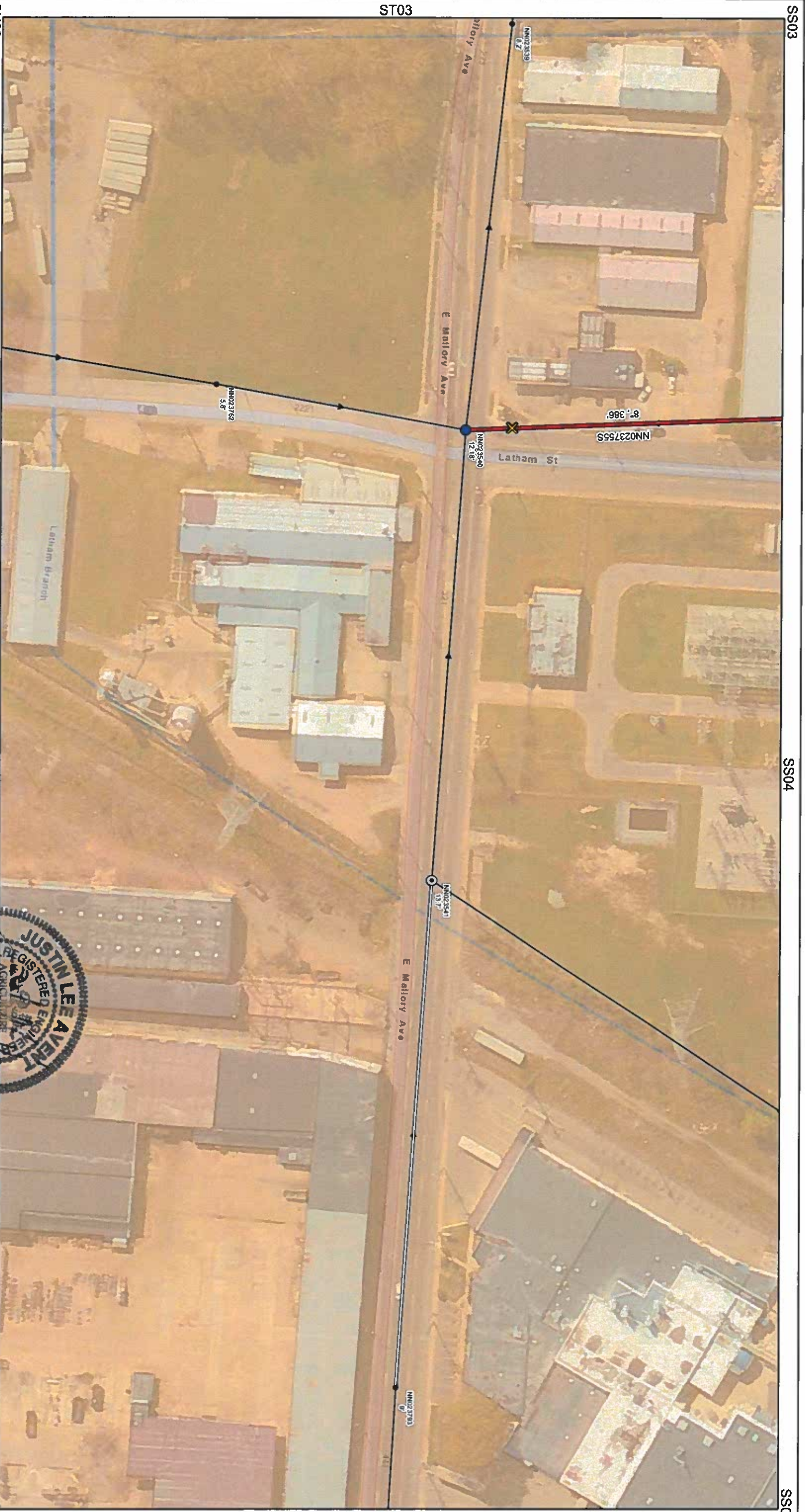


- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (1)
 - CIPP (0)
 - Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravily Main (Rehab By Others)
 - Gravily Main (No Rehab)



Group 1 Rehab Grid ST03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

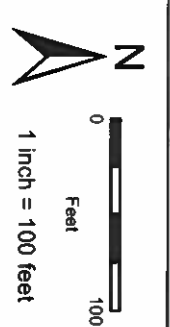


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- ✕ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid ST04

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

SS05

SS06

SS07

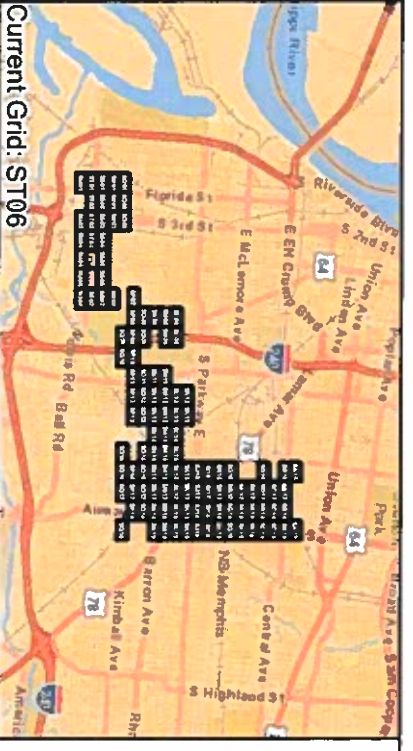


SU05

SU06

SU07

ST07



Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (1)
- ▲ Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ✕ Point Repair Location (0)



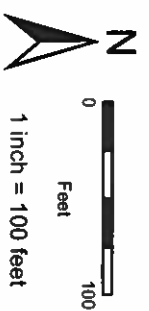
Install New Manhole (Rehab By Others)

● Manhole (Rehab By Others)

● Manhole (No Rehab)

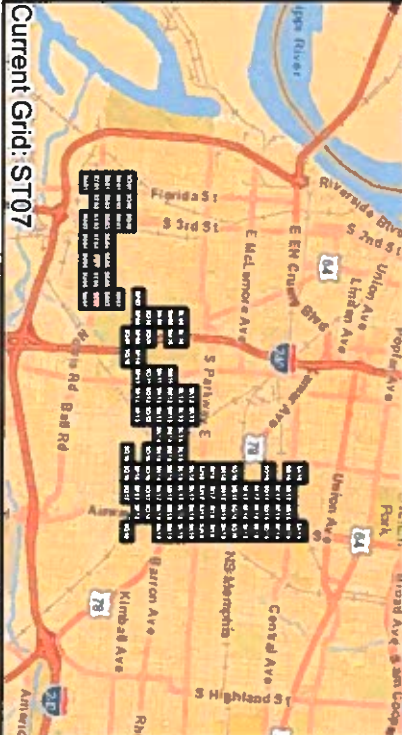
— Gravity Main (Rehab By Others)

— Gravity Main (No Rehab)



Group 1 Rehab Grid ST06

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

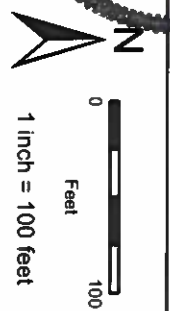


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (2)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (2)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

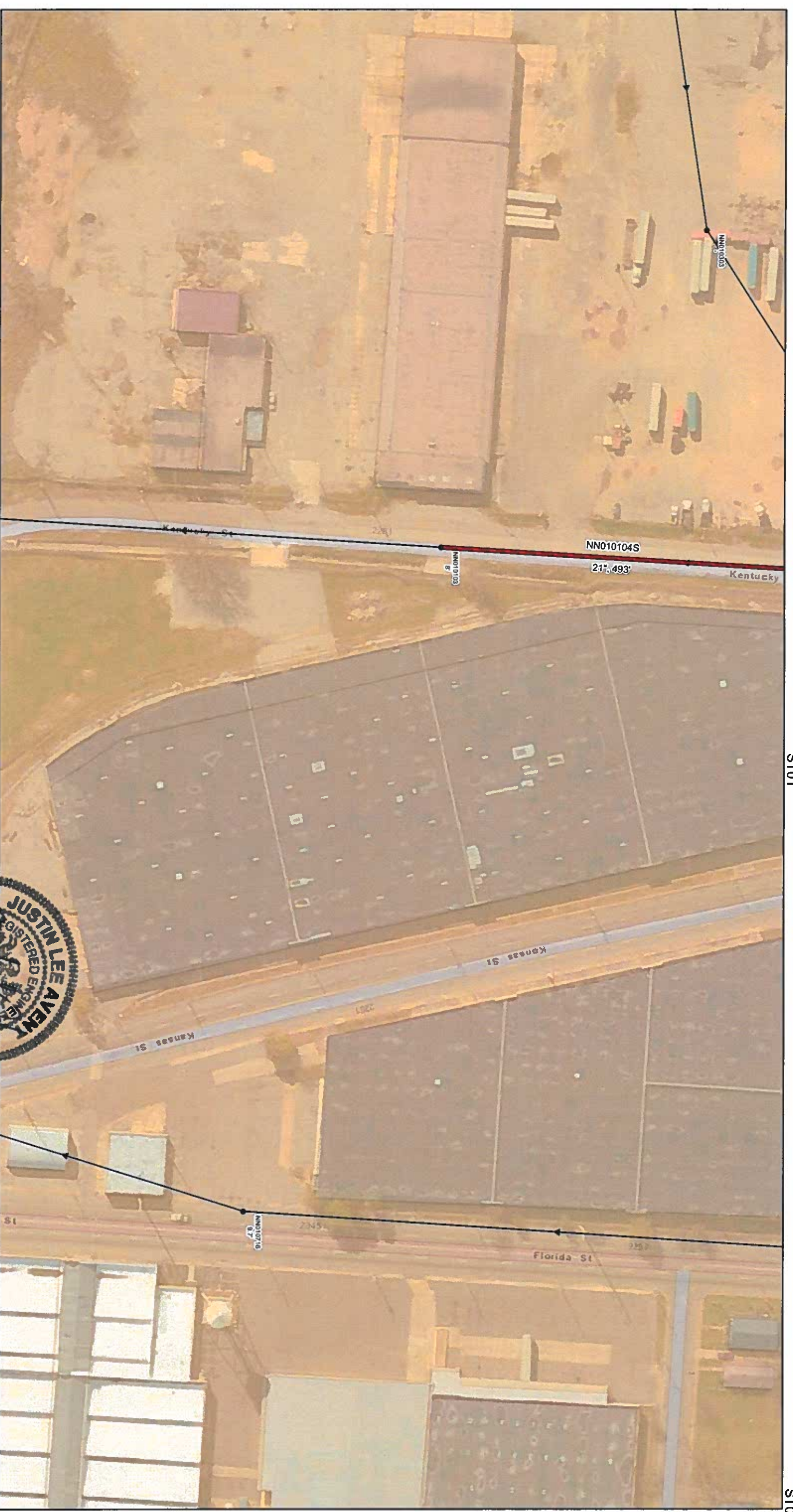
Pipe Rehab

- Point Repair Only (2)
- CIPP (2)
- Point Repair Location (2)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravily Main (Rehab By Others)
- Gravily Main (No Rehab)



Group 1 Rehab Grid ST07

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

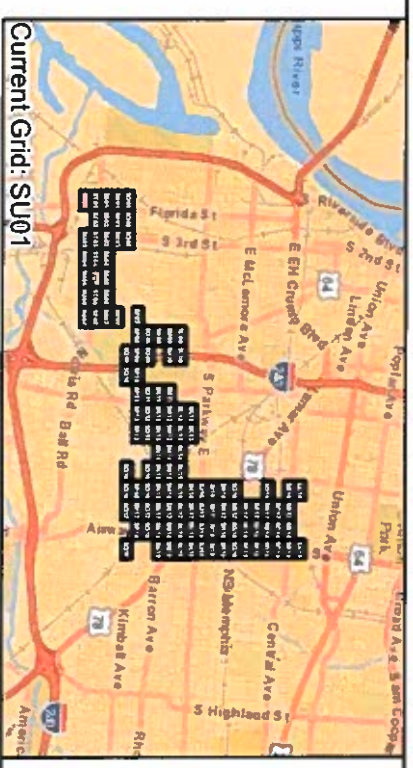


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (0)
- Cementitious Coating and Install Inside Drop (0)
- Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

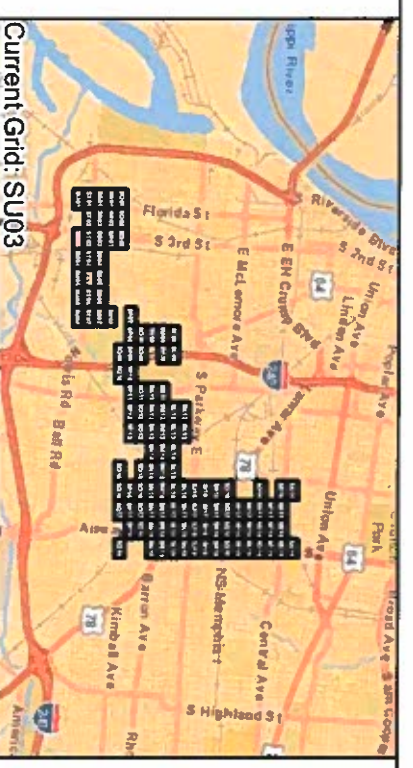
Pipe Rehab

- Point Repair Only (0)
- CIPP (1)
- Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)

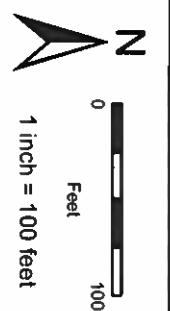


Group 1 Rehab Grid SU01

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (0)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (0)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)**
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



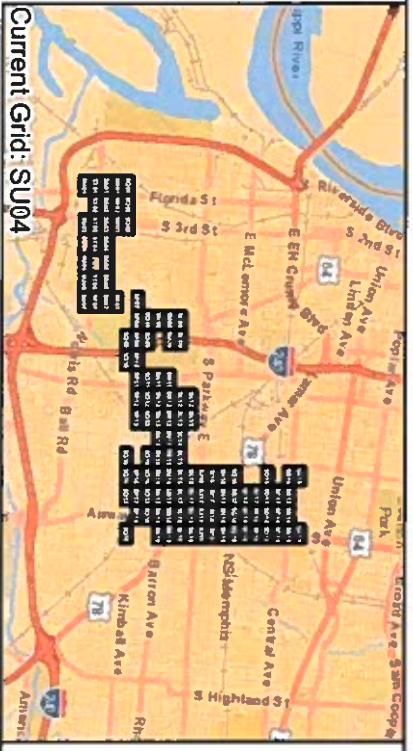
Group 1 Rehab Grid SU03

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

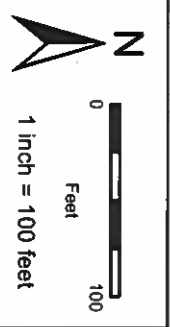


SU03

SU05



- Manhole Rehab**
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (1)
 - Repair Bench/Channel (0)
 - Cementitious Coating and Install Inside Drop (0)
 - Cementitious Coating and Repair Bench/Channel (0)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)
- Pipe Rehab**
- Point Repair Only (0)
 - CIPP (1)
 - Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
 - Manhole (No Rehab)
 - Gravity Main (Rehab By Others)
 - Gravity Main (No Rehab)



Group 1 Rehab Grid SU04

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.



SU04

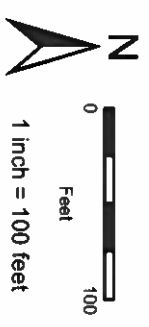
SU05



- ### Manhole Rehab
- Install New Manhole (0)
 - Install Inside Drop (0)
 - Cementitious Coating (2)
 - Repair Bench/Channel (0)
 - ▲ Cementitious Coating and Install Inside Drop (0)
 - ▲ Cementitious Coating and Repair Bench/Channel (1)
 - Repair Bench/Channel and Install Inside Drop (0)
 - Structurally Replace Manhole (0)

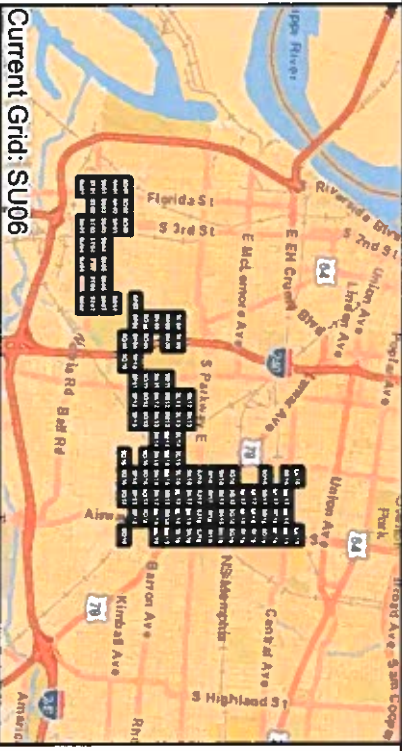
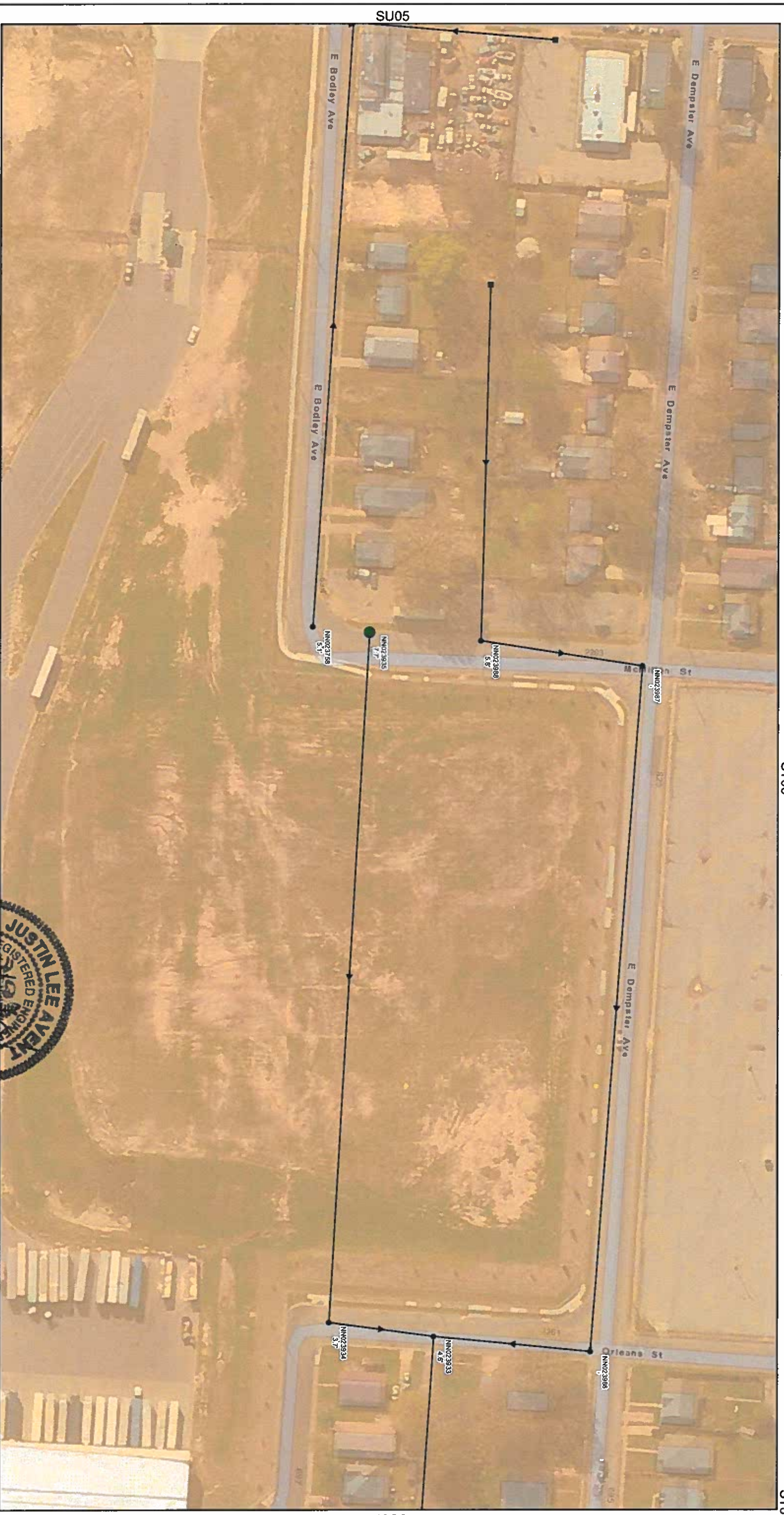
- ### Pipe Rehab
- Point Repair Only (0)
 - CIPP (1)
 - ✕ Point Repair Location (0)

- Install New Manhole (Rehab By Others)
- Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SU05

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

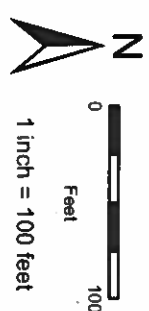


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (0)
- Cementitious Coating (0)
- Repair Bench/Channel (1)
- Cementitious Coating and Install Inside Drop (0)
- Repair Bench/Channel and Install Inside Drop (1)
- Structurally Replace Manhole (0)

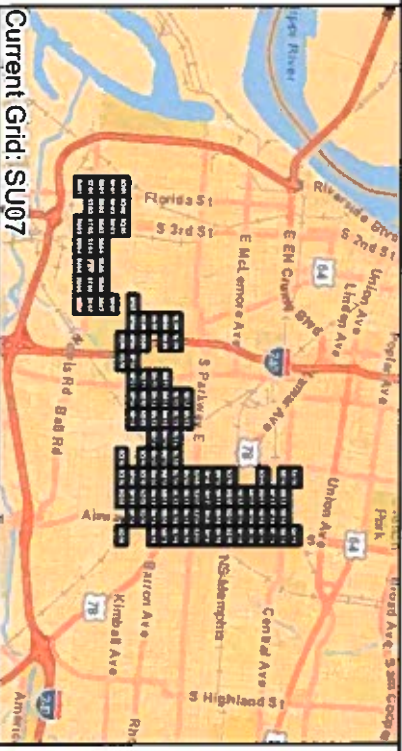
Pipe Rehab

- Point Repair Only (0)
- CIPP (0)
- ⊠ Point Repair Location (0)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SU06

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.

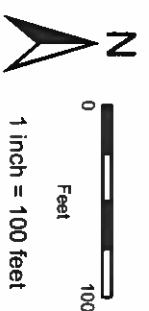


Manhole Rehab

- Install New Manhole (0)
- Install Inside Drop (1)
- Cementitious Coating (1)
- Repair Bench/Channel (0)
- ▲ Cementitious Coating and Install Inside Drop (0)
- ▲ Cementitious Coating and Repair Bench/Channel (0)
- Repair Bench/Channel and Install Inside Drop (0)
- Structurally Replace Manhole (0)

Pipe Rehab

- Point Repair Only (1)
- CIPP (1)
- ⊗ Point Repair Location (1)
- Install New Manhole (Rehab By Others)
- ⊙ Manhole (Rehab By Others)
- Manhole (No Rehab)
- Gravity Main (Rehab By Others)
- Gravity Main (No Rehab)



Group 1 Rehab Grid SU07

Note: Recorded manhole rim to invert measurements are indicated below the Facility ID. Point Repair locations are approximate.