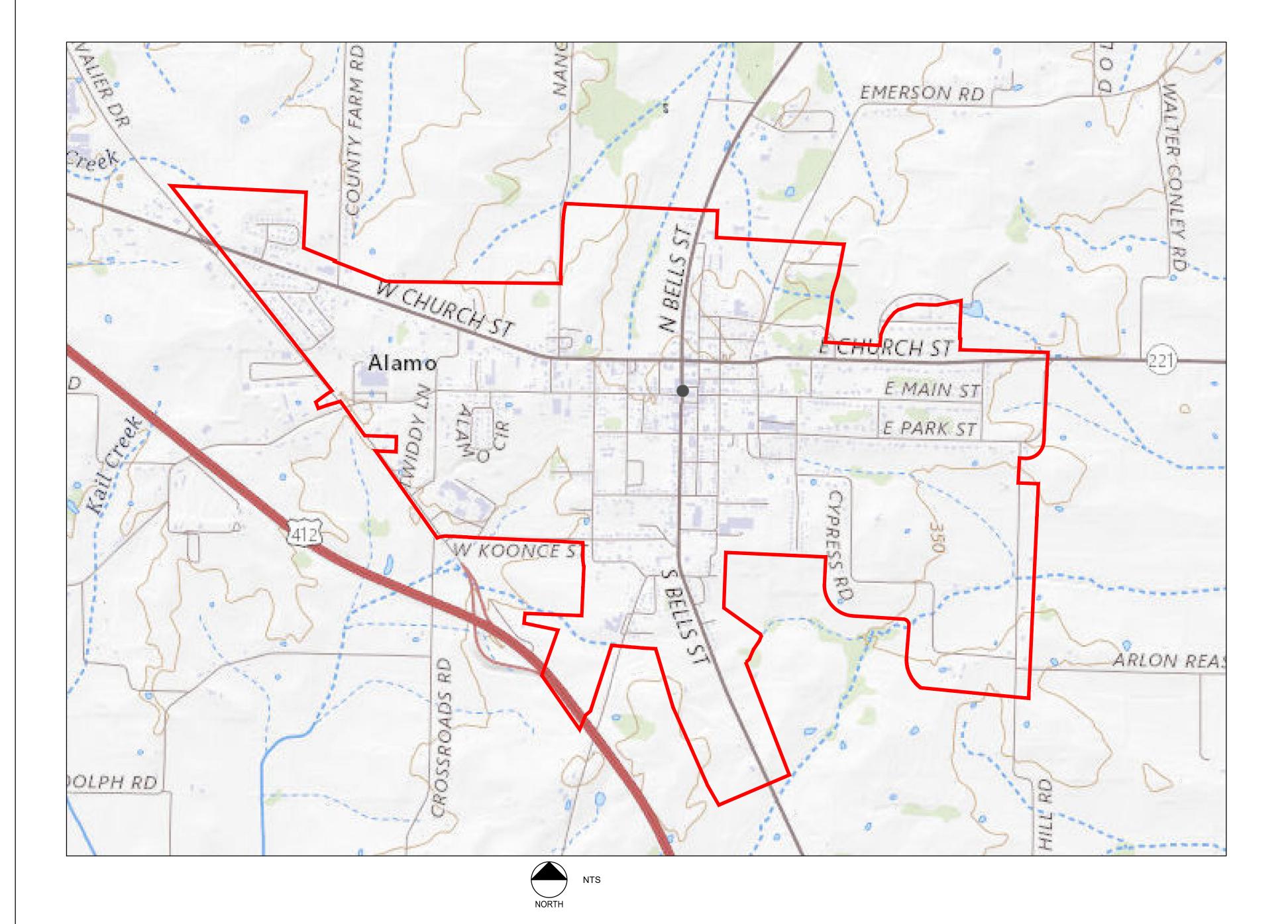
# TOWN OF ALAMO SEWER SYSTEM IMPROVEMENTS PHASE I



# ALAMO, TENNESSEE

### **ENGINEERS ARCHITECTS PLANNERS**

| SHEET LIST TABLE |                                    |  |  |
|------------------|------------------------------------|--|--|
| SHEET NUMBER     | SHEET TITLE                        |  |  |
| C1.0             | QUANTITIES                         |  |  |
| C2.0             | PROJECT LOCATION PLAN              |  |  |
| C2.1             | AREA 1 - SEWER REHABILITATION PLAN |  |  |
| C2.2             | AREA 2 - SEWER REHABILITATION PLAN |  |  |
| C2.3             | AREA 3 - SEWER REHABILITATION PLAN |  |  |
| C3.0             | NOT USED                           |  |  |
| C4.0             | NOT USED                           |  |  |
| C5.0             | NOT USED                           |  |  |
| C6.0             | NOT USED                           |  |  |
| C7.0             | NOT USED                           |  |  |
| C8.0             | NOT USED                           |  |  |
| C9.0             | NOT USED                           |  |  |
| C10.0            | DETAILS                            |  |  |

## CONSTRUCTION DOCUMENTS APRIL 16, 2024 PROJECT NUMBER 21451.01



A2H, INC. 3009 DAVIES PLANTATION ROAD LAKELAND, TN 38002 P. 901.372.0404 WWW.A2H.COM

#### **GENERAL NOTES**

- THE CONTRACTOR SHALL CALL THE TENNESSEE ONE SERVICE A MINIMUM OF 72 HOURS PRIOR TO COMMENCING CONSTRUCTION AT 1-800-351-1111 FOR LOCATION OF UNDERGROUND UTILITIES.
- CONTRACTOR SHOULD ANTICIPATE A MINIMUM 30 DAY WAITING PERIOD BETWEEN PAY REQUEST SUBMITTAL AND PAYMENT BY THE OWNER.
- CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL AND 3. APPROPRIATE SIGNING AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION SIGNS MUST BE IN PLACE BEFORE CONSTRUCTION BEGINS. COST OF TRAFFIC CONTROL AND SIGNING SHALL BE INCLUDED IN THE COST OF OTHER ITEMS BID ON THIS PROJECT.
- A. FIVE DAYS PRIOR TO BEGINNING OF CONSTRUCTION WORK, ERECT ALL TRAFFIC CONTROL SIGNS AND CONTACT THE OWNER
- B. NO TRENCHES OR OTHER EXCAVATION WITHIN TEN FEET OF THE EXISTING PAVEMENT EDGE SHALL BE LEFT OPEN AT NIGHT.
- C. THE CONTRACTOR IS DIRECTED TO AND SHALL CONFORM TO PART 6 OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" FOR THE DESIGNATION OF CONSTRUCTION WARNING SIGNS AND CHANNELIZATION DEVICES. CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN ALL WARNING SIGNS AND SAFETY DEVICES AS REQUIRED FOR THE DURATION OF CONSTRUCTION.
- D. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 12' CLEAR LANE AT ALL TIMES.
- E. CONTRACTOR SHALL COVER ANY EXISTING SIGNS THAT MAY CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNING.
- F. CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAY.
- G. NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- CONTRACTOR TO PREPARE A WORK SCHEDULE AND SUBMIT IT TO THE 4. ENGINEER FOR APPROVAL. SCHEDULE WILL BE DETAILED ENOUGH TO PROVIDE THE OWNER WITH AN UNDERSTANDING OF WHERE REHABILITATION ACTIVITIES WILL OCCUR ON EACH DAY. SCHEDULE TO BE UPDATED AT OWNER'S OR ENGINEER'S REQUEST.
- CONTRACTOR TO MAINTAIN INGRESS AND EGRESS WITH PROPERTY OWNERS 5 AT ALL TIMES.

D1 QUANTITIES NTS

#### **REHABILITATION SCOPE**

|             | DOWNSTREAM | DATE      |                     |           | NUMBER OF |          | TOTAL LENGTH |                                   |
|-------------|------------|-----------|---------------------|-----------|-----------|----------|--------------|-----------------------------------|
| UPSTREAM MH | MH         | INSPECTED | <u>STREET</u>       | SIZE (IN) | SERVICES  | MATERIAL | <u>(FT)</u>  | TYPE OF REPAIR                    |
| L16         | 253        | 8/31/2023 | BURNS ST            | 8         | 0         | CONCRETE | 362.6        | CIPP                              |
| L17         | 261        | 8/22/2023 | W VINE ST           | 8         | 9         | CONCRETE | 333.8        | CIPP                              |
| L27         | L25        | 8/15/2023 | RAINBOW CIRCLE      | 8         | 0         | CONCRETE | 204.8        | LINEAR REPAIR, CIPP               |
| 193B        | 193A       | 8/28/2023 | W CHURCH ST         | 8         | 1         | UNKNOWN  | 178.6        | LINEAR REPAIR, CIPP               |
| 194         | 193        | 8/24/2023 | W CHURCH ST         | 8         | 3         | UNKNOWN  | 366.5        | LINEAR REPAIR, CIPP               |
| 199         | 199A       | 8/21/2023 | W CHURCH ST         | 8         | 3         | CONCRETE | 398.7        | POINT REPAIR, LINEAR REPAIR, CIPP |
| 199A        | 198        | 8/24/2023 | W CHURCH ST         | 8         | 2         | CONCRETE | 345.2        | POINT REPAIR (3), CIPP            |
| 204         | 204A       | 8/21/2023 | W CHURCH ST         | 8         | 2         | VCP      | 350          | POINT REPAIR (2), CIPP            |
| 227         | 228        | 8/16/2023 | NANCEWOOD DR ESMT   | 8         | 2         | CONCRETE | 250          | POINT REPAIR (3), CIPP            |
| 228         | 233        | 8/14/2023 | RAINBOW CIRCLE ESMT | 8         | 0         | CONCRETE | 323          | CIPP                              |
| 229         | 230        | 8/14/2023 | NANCEWOOD DR ESMT   | 8         | 1         | CONCRETE | 253.1        | CIPP                              |
| 292         | 291        | 8/16/2023 | W MAIN ST           | 8         | 2         | CONCRETE | 358.3        | POINT REPAIR (2), CIPP            |
| 255         | 254        | 8/21/2023 | W KOONCE ST         | 8         | 5         | CONCRETE | 352          | POINT REPAIR, CIPP                |
| 256         | 255        | 8/21/2023 | W KOONCE ST         | 8         | 9         | CONCRETE | 361.5        | POINT REPAIR, CIPP                |
| 258A        | 258        | 8/22/2023 | BURNS ST            | 8         | 0         | CONCRETE | 243.3        | POINT REPAIR, CIPP                |
| 264         | 263        | 8/24/2023 | S BRANCH ST         | 8         | 5         | CONCRETE | 347.7        | CIPP                              |
| 279         | 282        | 8/16/2023 | W MAIN ST           | 8         | 4         | CONCRETE | 267          | POINT REPAIR, CIPP                |
| 288         | 290        | 8/15/2023 | ALAMO CT            | 8         | 9         | CONCRETE | 316.2        | POINT REPAIR (5), CIPP            |
| 290         | 282        | 8/16/2023 | ALAMO CIRCLE        | 8         | 2         | CONCRETE | 140.6        | POINT REPAIR (2), CIPP            |
| 293         | 309        | 8/17/2023 | NORTH LA SALLE ST   | 8         | 1         | CONCRETE | 336.7        | POINT REPAIR, LINEAR REPAIR, CIPP |
| 309         | 188        | 8/17/2023 | NORTH LA SALLE ST   | 8         | 1         | CONCRETE | 200          | CIPP                              |

NOTES:

- 1. CONTRACTOR TO REFERENCE THE EXISTING CAMERA LOGS LOCATED IN THE SPECIFICATIONS AS AN ATTACHMENT FOR ADDITIONAL INFORMATION ON LINES TO BE REHABILITATED.
- 2. POINT REPAIRS REFER TO SINGLE LOCATIONS TO REPAIR A SERVICE TAP, CROSS CONNECTION, OR REPAIR THAT DOES NOT REQUIRE REPLACEMENT OF PIPE. THE ITEM WILL BE PAID BY EACH LOCATION AND INCLUDES ALL APPURTENANCES, EXCAVATION, BACKFILL GRAVEL, DEMOLITION , AND ASPHALT REPAIR.
- 3. LINEAR REPAIRS INCLUDE EXCAVATION AND REPLACEMENT OF 8" SDR26 PVC PIPE, THE DISTANCE LISTED IS APPROXIMATE BASED ON THE EXISTING CCTV REPORTS. THE ITEM WILL BE PAID FULL BY THE LF AND INCLUDES ALL THE APPURTENANCES, EXCAVATION, BACKFILL GRAVEL, REMOVAL OF EXISTING PIPE, AND ASPHALT REPAIR.

#### PROJECT QUANTITIES

|     | 1 | MOBILIZATION  | 1    | LS |
|-----|---|---------------|------|----|
| 1   | 2 | 8" CIPP       | 6300 | LF |
| (2) | 3 | POINT REPAIR  | 22   | EA |
| 2   | 4 | LINEAR REPAIR | 224  | LF |

(1) COST PER LINEAR FOOT FOR CIPP PIPE REHABILITATION SHALL INCLUDE LINE CLEANING, MAINTENANCE OF SEWER FLOWS INCLUDING BY-PASS PUMPING IF NEEDED INSTALLATION OF THE CURED IN-PLACE PIPE, RESTORATION OF SERVICE LATERAL CONNECTION OPENINGS, RESTORATION OF ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION INCLUDING ROADWAY PAVEMENT REPAIRS, AND COMPLETING A POST CONSTRUCTION VIDEO INSPECTION.

(2) CONTRACTOR TO REFERENCE CCTV REPORTS LOCATED AS AN ATTACHMENT TO THE SPECIFICATIONS FOR POINT REPAIR CONDITIONS



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#### TOWN OF ALAMO

### SEWER SYSTEM IMPROVEMENTS PHASE I

#### ALAMO, TN

#### CONSTRUCTION DOCUMENTS

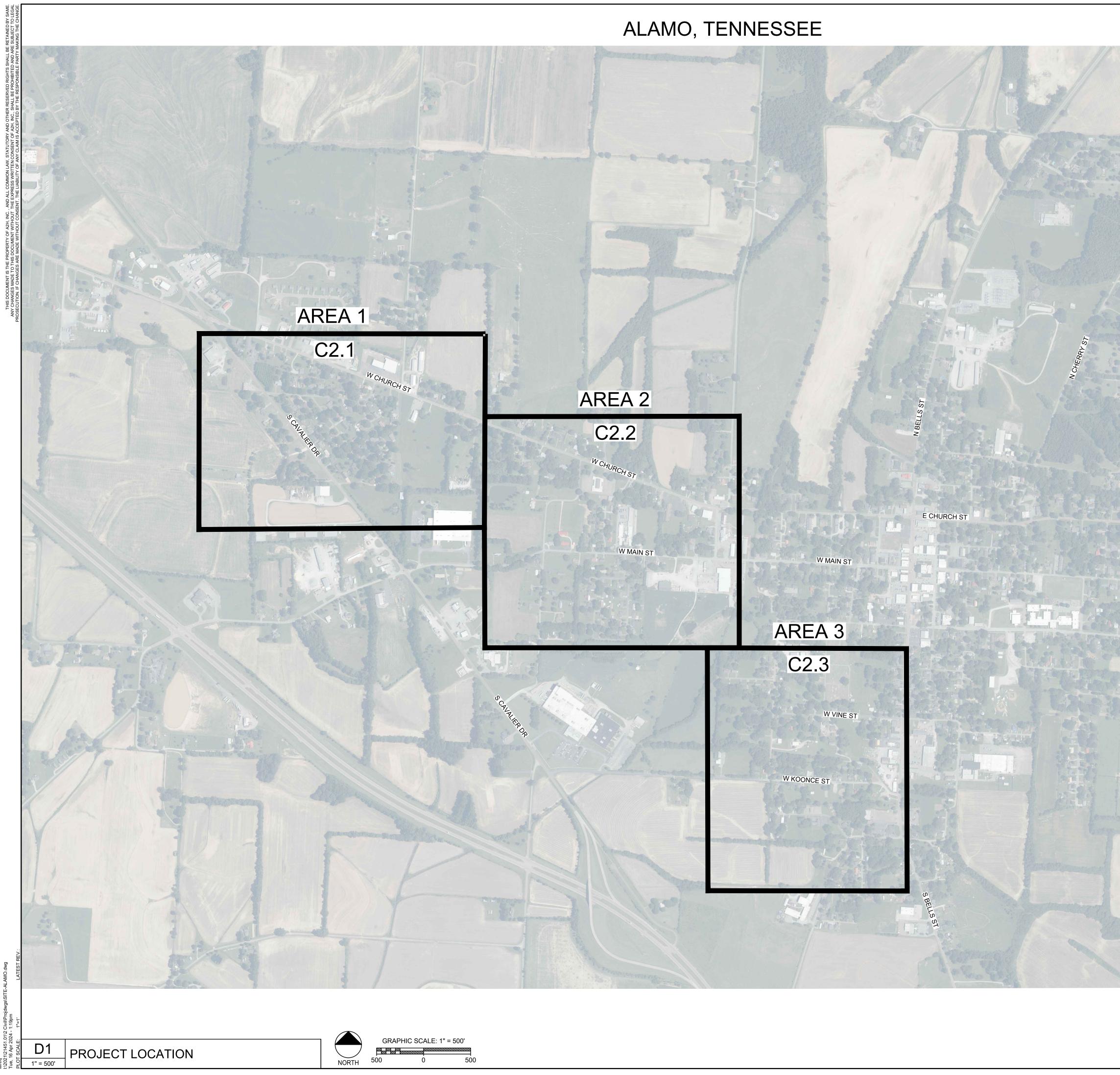
REVISIONS

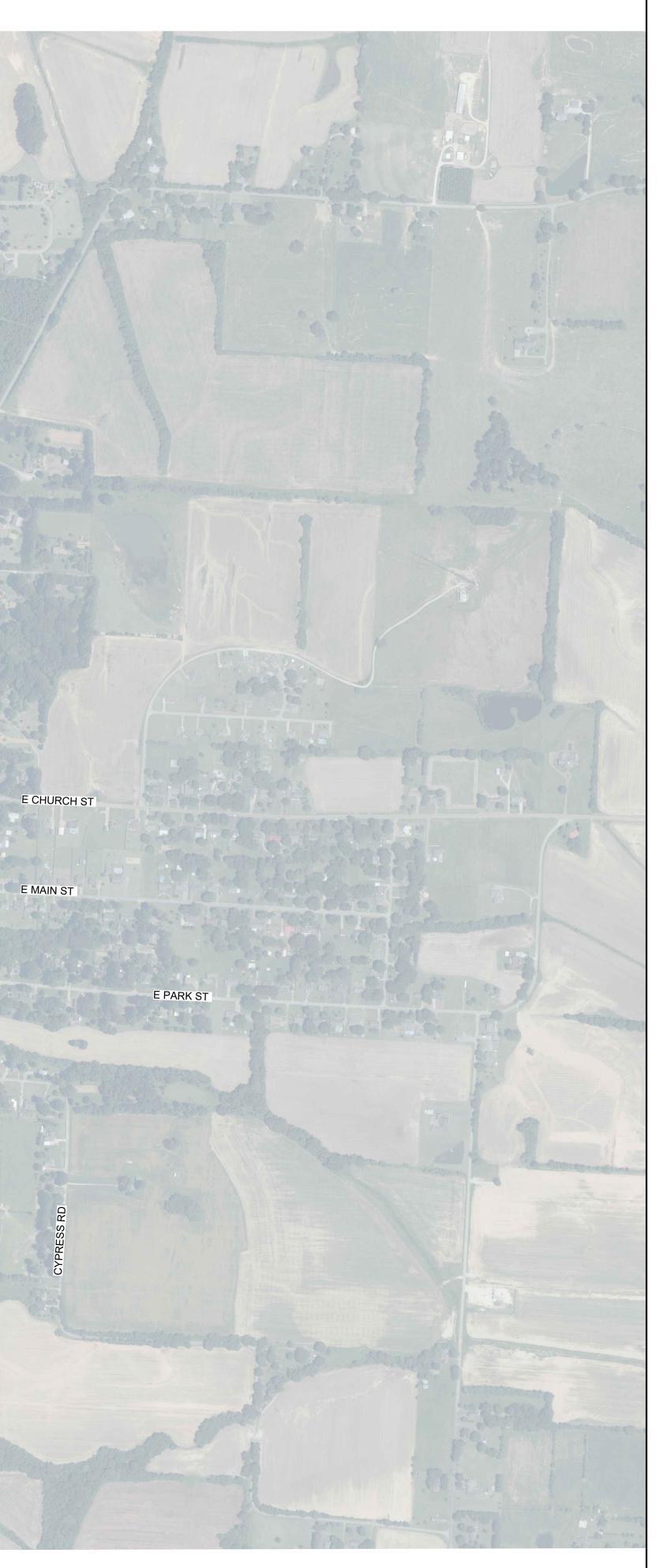
| PROJECT NO. | DATE           |
|-------------|----------------|
| 21451.01    | APRIL 16, 2024 |
| DRAWN       | CHECKED        |
| II          | ТМ             |

QUANTITIES, REHABILITATION SCHEDULE, & GENERAL NOTES

1 OF 6









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TOWN OF ALAMO

#### SEWER SYSTEM IMPROVEMENTS PHASE I

ALAMO, TN

CONSTRUCTION DOCUMENTS

REVISIONS

| PROJECT NO. | DATE           |
|-------------|----------------|
| 21451.01    | APRIL 16, 2024 |
| DRAWN       | CHECKED        |
| JL          | ТМ             |

PROJECT LOCATION Plan

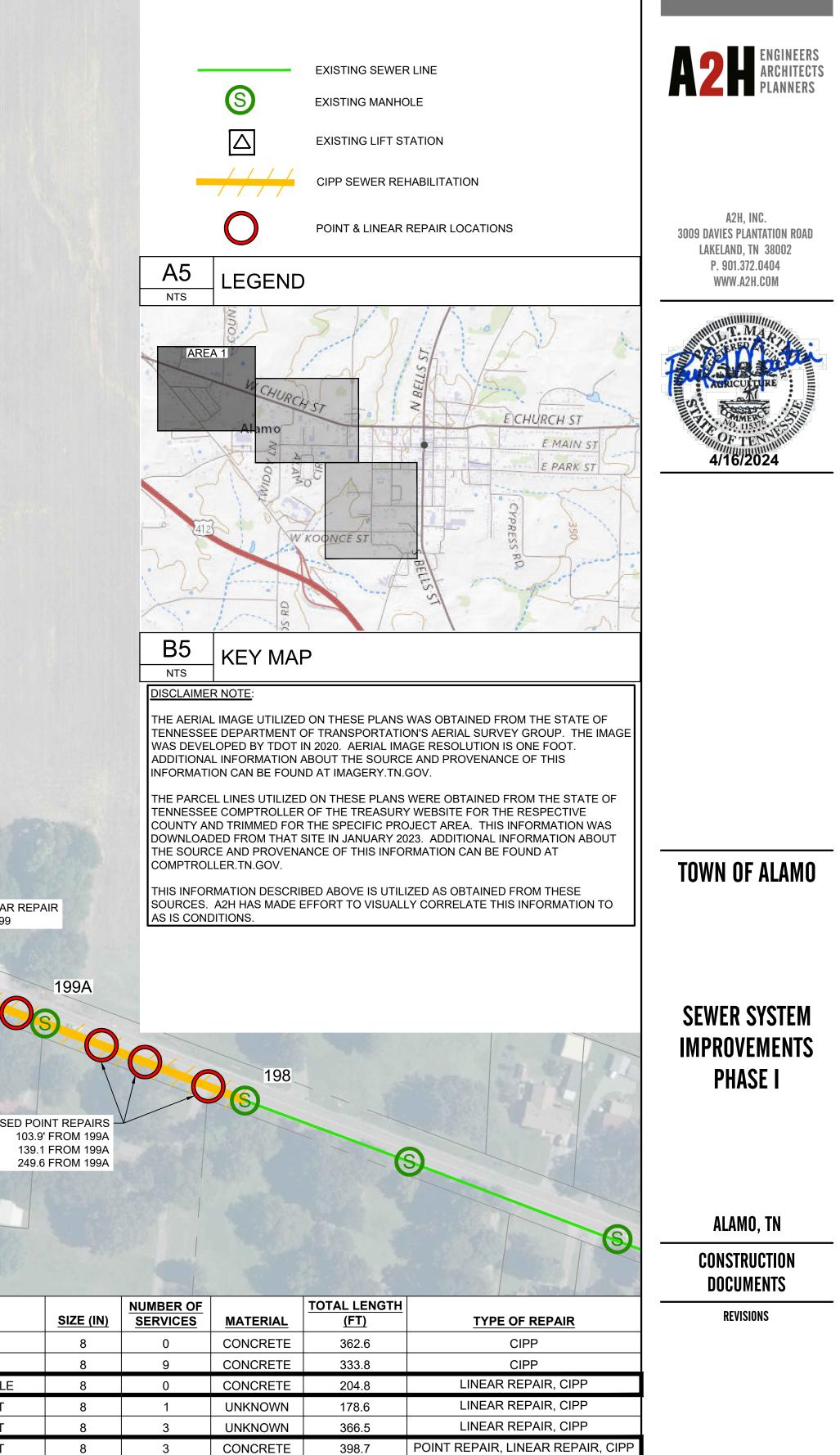
2 OF 6

**C2.0** 





| URCHST<br>G<br>G   |  | and and   |   |  |                          |
|--|--|---|---|--|--------------------------|
| L25<br>PROPO<br>62.8' FR   | W CHURCH ST  | 199   | 25.5' FR  | PROPOSED 32' LINEAR REP<br>131' TO 163' FROM 199   | 19                       |
| MOODHA E 233 AMAGARAN E L27  |  |   |   | PROPOSED PO<br>103.9<br>139.7<br>249.6   | )' FR(<br>1 FR(          |
| August de la constant | UPSTREAM MH  | DOWNSTREAM<br>MH  | DATE<br>INSPECTED   | 103.9<br>139.7<br>249.6<br><u>STREET</u>   | )' FR(<br>1 FR(          |
| Auto the second  |  | DOWNSTREAM  | DATE<br>INSPECTED<br>8/31/2023<br>8/22/2023   |  | 9' FR(<br>1 FR(<br>6 FR( |
|  | <u>UPSTREAM MH</u><br>L16<br>L17<br>L27  | DOWNSTREAM<br><u>MH</u><br>253<br>261<br>L25  | INSPECTED     8/31/2023     8/22/2023     8/15/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE  | 9' FR(<br>1 FR(<br>6 FR( |
|  | <u>UPSTREAM MH</u><br>L16<br>L17   | DOWNSTREAM<br><u>MH</u><br>253<br>261   | INSPECTED     8/31/2023     8/22/2023   | 103.9<br>139.2<br>249.6<br><b>STREET</b><br>BURNS ST<br>W VINE ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | <u>UPSTREAM MH</u><br>L16<br>L17<br>L27<br>193В  | DOWNSTREAM<br>MH<br>253<br>261<br>L25<br>193A   | INSPECTED     8/31/2023     8/22/2023     8/15/2023     8/28/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST   | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A  | DOWNSTREAM<br>MH<br>253<br>261<br>L25<br>193A<br>193<br>199A<br>198   | INSPECTED     8/31/2023     8/22/2023     8/15/2023     8/28/2023     8/24/2023     8/21/2023     8/24/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH<br>L16<br>L17<br>L27<br>193B<br>194<br>199<br>199A<br>204  | DOWNSTREAM<br>MH<br>253<br>261<br>L25<br>193A<br>193A<br>193<br>199A<br>198<br>204A   | INSPECTED   8/31/2023   8/22/2023   8/22/2023   8/28/2023   8/28/2023   8/24/2023   8/21/2023   8/24/2023   8/24/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST   | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A  | DOWNSTREAM<br>MH<br>253<br>261<br>L25<br>193A<br>193<br>199A<br>198   | INSPECTED     8/31/2023     8/22/2023     8/15/2023     8/28/2023     8/24/2023     8/21/2023     8/24/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST<br>W CHURCH ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227  | DOWNSTREAM<br>MH<br>253<br>261<br>L25<br>193A<br>193A<br>193<br>199A<br>198<br>204A<br>228  | INSPECTED   8/31/2023   8/22/2023   8/22/2023   8/28/2023   8/24/2023   8/21/2023   8/24/2023   8/24/2023   8/24/2023   8/24/2023   8/24/2023   8/24/2023   8/24/2023   8/24/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   292                                      | DOWNSTREAM   MH   253   261   L25   193A   204A   228   233   230   291                     | INSPECTED     8/31/2023     8/22/2023     8/22/2023     8/28/2023     8/28/2023     8/24/2023     8/21/2023     8/21/2023     8/24/2023     8/21/2023     8/21/2023     8/16/2023     8/16/2023     8/14/2023     8/16/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>W VINE ST<br>W CHURCH ST | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   292   255                                | DOWNSTREAM   MH   253   261   L25   193A   193B   204A   228   233   230   291   254 | INSPECTED     8/31/2023     8/22/2023     8/22/2023     8/28/2023     8/28/2023     8/24/2023     8/24/2023     8/21/2023     8/21/2023     8/21/2023     8/21/2023     8/16/2023     8/16/2023     8/16/2023     8/16/2023   | 103.9<br>139.7<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   292                                      | DOWNSTREAM   MH   253   261   L25   193A   204A   228   233   230   291                     | INSPECTED     8/31/2023     8/22/2023     8/22/2023     8/28/2023     8/28/2023     8/24/2023     8/21/2023     8/21/2023     8/24/2023     8/21/2023     8/21/2023     8/16/2023     8/16/2023     8/14/2023     8/16/2023   | 103.9<br>139.2<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>BURNS ST<br>W VINE ST<br>W VINE ST<br>W VINE ST<br>W CHURCH ST | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   255   256   258A   264                   | DOWNSTREAM   MH   253   261   L25   193A   193   193A   193   193A   193A   193A   193A   193A   193A   193A   193A   193   193A   193   193A   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   194   204A   230   291   254   255   258   263            | INSPECTED     8/31/2023     8/22/2023     8/22/2023     8/28/2023     8/28/2023     8/24/2023     8/24/2023     8/21/2023     8/21/2023     8/21/2023     8/16/2023     8/16/2023     8/14/2023     8/14/2023     8/14/2023     8/14/2023     8/21/2023     8/21/2023     8/22/2023     8/22/2023     8/22/2023     8/24/2023   | 103.9<br>139.7<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>S BRANCH ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   229   2255   256   258A   264   279      | DOWNSTREAM   MH   253   261   L25   193A   193A   193A   193   204A   228   233   230   291   254   255   258   263   282   | INSPECTED     8/31/2023     8/22/2023     8/22/2023     8/28/2023     8/28/2023     8/24/2023     8/24/2023     8/21/2023     8/21/2023     8/21/2023     8/16/2023     8/16/2023     8/14/2023     8/14/2023     8/14/2023     8/14/2023     8/21/2023     8/21/2023     8/21/2023     8/21/2023     8/21/2023     8/21/2023     8/21/2023     8/22/2023     8/24/2023     8/24/2023     8/24/2023     8/24/2023     8/16/2023 | 103.9<br>139.7<br>249.6<br>STREET<br>BURNS ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>S BRANCH ST<br>W MAIN ST<br>W MAIN ST                                | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   255   256   258A   264                   | DOWNSTREAM   MH   253   261   L25   193A   193   193A   193   193A   193A   193A   193A   193A   193A   193A   193A   193   193A   193   193A   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   193   194   204A   230   291   254   255   258   263            | INSPECTED     8/31/2023     8/22/2023     8/22/2023     8/28/2023     8/28/2023     8/24/2023     8/24/2023     8/21/2023     8/21/2023     8/21/2023     8/16/2023     8/16/2023     8/14/2023     8/14/2023     8/14/2023     8/14/2023     8/21/2023     8/21/2023     8/22/2023     8/22/2023     8/22/2023     8/24/2023   | 103.9<br>139.7<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>S BRANCH ST  | 9' FR(<br>1 FR(<br>6 FR( |
|  | UPSTREAM MH   L16   L17   L27   193B   194   199   199A   204   227   228   229   229   255   256   258A   264   279   288 | DOWNSTREAM   MH   253   261   L25   193A   193A   193A   199A   198   204A   228   233   230   291   254   255   258   263   282   290  | INSPECTED   8/31/2023   8/22/2023   8/22/2023   8/28/2023   8/28/2023   8/24/2023   8/24/2023   8/21/2023   8/21/2023   8/16/2023   8/14/2023   8/14/2023   8/14/2023   8/14/2023   8/14/2023   8/14/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/21/2023   8/22/2023   8/24/2023   8/16/2023   8/16/2023   8/16/2023   8/15/2023                       | 103.9<br>139.7<br>249.6<br>STREET<br>BURNS ST<br>BURNS ST<br>W VINE ST<br>RAINBOW CIRCLE<br>W CHURCH ST<br>W CHURCH ST<br>S BRANCH ST<br>BURNS ST<br>S BRANCH ST<br>W MAIN ST<br>ALAMO CT                                       | 9' FR(<br>1 FR(<br>6 FR( |



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1

CONCRETE

VCP

CONCRETE

345.2

350

250

323

253.1

358.3

352

361.5

243.3

347.7

267

316.2

140.6

336.7

200

| PROJECT NO. | DATE           |
|-------------|----------------|
| 21451.01    | April 16, 2024 |
| DRAWN       | CHECKED        |
| Jl          | TM             |

POINT REPAIR (3), CIPP

POINT REPAIR (2), CIPP

POINT REPAIR (3), CIPP

CIPP

CIPP

POINT REPAIR (2), CIPP

POINT REPAIR, CIPP

POINT REPAIR, CIPP

POINT REPAIR, CIPP

CIPP

POINT REPAIR, CIPP

POINT REPAIR (5), CIPP

POINT REPAIR (2), CIPP

POINT REPAIR, LINEAR REPAIR, CIPP

CIPP

AREA 1 - SEWER REHABILITATION PLAN 3 OF 6

**C2.1** 

