Addendum 2  
Solicitation 22-99498  
RFP for Construction Inspection Services for CIPP Project

This addendum serves to notify all bidders of the following changes to the solicitation documents:

The draft plans and specs for the construction of this project are attached for your reference.

Please acknowledge receipt of this Addendum by including a copy of this page with your proposal. The pages included will not count toward any page limitation, if any, identified in the RFP.

Posted: 6.23.22
SPECIAL PROVISIONS

2022 Citywide CIPP Lining

City Project # 2037

City of Duluth, Minnesota
411 West 1st Street
Duluth, MN  55802
CERTIFICATION

I HEREBY CERTIFY THAT THIS plan, SPECIFICATION or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Tim A Sanders
Typed or Printed Name

Signature

Date

License No.
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SPECIAL PROVISIONS
City Job Number: 2037
2022 Citywide CIPP Lining
June 23, 2022
The following forms and regulations/rules/statutes and interpretations, which are incorporated by reference in this contract, are available on the World Wide Web at the sites listed below. The City of Duluth will use its best efforts to ensure that the most recent, applicable forms and regulations/rules/statutes and interpretations are included on the web sites provided; however, if you are the successful bidder, prior to signing the contract, you are responsible for comparing the versions of the forms and regulations/rules/statutes and interpretations attached to the contract which you are signing with the versions on the web to ensure conformity.

**THE VERSIONS OF THE FORMS AND REGULATIONS/RULES/STATUTES and INTERPRETATION ATTACHED TO THE CONTRACT WILL BE CONTROLLING.**

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<td>Month-End Trucking Report Statement of Compliance (12-10)</td>
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SP-1  NOTICE TO ALL BIDDERS

The 2019 Edition of the City of Duluth Public Works & Utilities Department/Engineering Division “Construction Standards” book and any addendums or supplements is incorporated by reference and is deemed to be a part hereof as if fully incorporated and set forth herein. The ‘Construction Standards’ is available on the City website at: https://www.duluthmn.gov/engineering/standard-construction-specifications/.

SP-2  SCOPE OF WORK

The project includes 19,105 feet of CIPP lining ranging between 8” – 27” pipe, 40 chemical grout point repairs, and 12 open trench sewer pipe spot repairs. Additionally, five special excavation fixes that require extensive work.

SP-3  CONTACT INFORMATION

Questions regarding this project should be directed to: Tim Sanders, PE, Project Engineer, 218-730-5066 or by email: tsanders@duluthmn.gov

SP-4  PRE-BID REVIEW OF CCTV INSPECTION VIDEOS

CCTV inspection videos for this project are available upon request. Contact Jon Maruska, Engineering Technician, 218-730-5093 or by email at jmaruska@duluthmn.gov

SP-5  COMMUNITY BENEFITS POLICY

Updated 02-19-2020
For Contracts that include a Project Labor Agreement, the contractor shall comply with the City of Duluth’s Community Benefits Policy. This policy requires a plan and good faith effort by contractors to recruit/hire/employ Eligible Workers to perform the work. Eligible Workers shall refer to women, people of color, and other individuals who are considered socially disadvantaged, and whose work hours on a covered project shall count toward the Community Benefits Goal set forth in the policy. A copy of the Community Benefits Program Contract Specification is available on the City of Duluth Purchasing web site.

SP-6  COVID-19 PROJECT SHUTDOWN PLAN

Revised 04-03-2020
In the event that employee illness or a governmental agency requires that the project cease due to the Covid-19 Virus, prior to suspension, the contractor shall provide a written plan to the architect/engineer on the project and the City for their prior approval and, upon such approval, shall be implemented by the contractor as part of this contract. The plan shall include the following requirements which shall apply to the status of the work at the time of interruption:
1. Time, if any, between the determination of the necessity of suspension and the actual suspension of work will be allocated in this order of priority; Life Safety Issues, Asset Integrity, Environmental Impacts, & Economic Impacts.

2. Excavations will be completed or temporarily filled.

3. Equipment will be removed from the site or secured by the contractor.

4. Physical barricades shall be installed as necessary to protect the work from damage or destruction and the public from injury in the event of trespass on the site.

5. Warning signs shall be installed where reasonably necessary to warn the public of any hazardous condition on the site.

6. Erosion control necessary to protect the site shall be in place and functioning and vegetation shall be in place and properly protected; all exposed and or erodible soil surfaces shall be fully stabilized per the SWPPP/NPDES permit requirements.

7. Onsite materials shall be removed from the site to safe storage or protected on site from damage or theft.

SP-7 (1203) ACCESS TO PROPOSAL PACKAGE

MN/DOT 1203 is hereby deleted from the MN/DOT Standard Specifications and replaced with the following:

Bidders shall access the proposal package electronically through Bid Express® at their website [https://www.bidexpress.com](https://www.bidexpress.com). There is no charge to view proposal packages, however, Bidders must register with Bid Express® and login to the website. Bidders may search for ‘City of Duluth’ or the specific bid number to locate the proposal package. The city may require a fee for bidders to purchase paper copies of the proposal package.

SP-8 (1206) PREPARATION OF PROPOSAL

Revised 02-03-2021

The provisions of MN/DOT 1206 are supplemented and/or modified with the following:

1206.1. “Preparation and Delivery”, is modified as follows:

The first paragraph shall be deleted and replaced with the following:

Due to the closure of City Hall as a result of the COVID-19 pandemic, all bids must be submitted electronically through Bid Express® at [www.bidexpress.com](http://www.bidexpress.com).

The third paragraph shall be deleted and replaced with the following:

The Bidder shall submit the Proposal Guaranty electronically through Bid Express®, or a copy of the Proposal Guaranty may be submitted by email to purchasing@duluthmn.gov prior to the bid opening. If submitting a certified check or bank draft, bidder must contact Purchasing seven days prior to bid opening to make arrangements.
1206.2 “Allowable Substitutions”, is modified as follows:

The first paragraph shall be deleted and replaced with the following:

Any exceptions to electronic bidding must be due to unforeseen extenuating circumstances and must be requested and approved by the Purchasing Office in advance.

SP-9  **(1213) DISQUALIFICATION OF BIDDERS**

Contractors who are debarred or suspended under Minnesota Statutes 161.315 Protection of Public Contracts will not be eligible for award of this contract or to act as a subcontractor to any contractor under this contract.

SP-10  **(1701) LAWS TO BE OBSERVED (PROMPT PAY AND RETAINAGE)**

Revised 02-03-2021

Section 1701 Laws to Be Observed (Prompt Pay and Retainage) of the City of Duluth Construction Standard is hereby deleted and replaced with the following:

**REVISED 10/09/19**
**SP2018-33.1**: The provisions of MN/DOT 1701 are supplemented with the following:

Prompt payment of subcontractors is required by Minnesota Statutes §16A.1245.

The Contractor must pay a subcontractor no later than ten days after receiving payment from the Department for undisputed work provided by that subcontractor. If the Contractor fails to pay a subcontractor on time, then the Contractor must pay interest, at the rate of 1.5% per month, to the subcontractor on the undisputed amount not paid on time. For an unpaid amount under $100, the Contractor must pay the actual interest penalty (calculated at 1.5% per month). For an unpaid amount over $100, the Contractor must pay the actual interest penalty (calculated at 1.5% per month) or $10, whichever is greater.

Minnesota Statutes §16A.1245 also provides that a subcontractor who prevails in a civil action to collect interest penalties from a prime contractor must be awarded its costs and disbursements, including attorney’s fees, incurred in bringing the action.

Payment of retainage for federal-aid projects is governed by Minnesota Statutes §§337.10, 15.72, and 49 C.F.R. 49 §26.29.

State law does not require retainage to be withheld. The contractor may not withhold more than 5% in retainage from a subcontractor, as provided by Minnesota Statutes §337.10 subd. 4 (b). If the Contractor holds retainage from a subcontractor, the Contractor must fully pay out that retainage no later than 30 days after the subcontractor’s work is satisfactorily completed, or 10 days after the Contractor receives payment of retainage from the Department, whichever is earlier, unless there is a dispute about the work under a subcontract. If there is a dispute about the work under a subcontract, the contractor must pay out retainage to any subcontractor whose work is not involved in the dispute, and must provide a written statement detailing the amount and reason for the withholding to the affected subcontractor.
For purposes of paying out retainage, a subcontractor’s work is satisfactorily completed when all of the tasks called for in the subcontract have been accomplished and documented as required by the Contract. When the Department has made an incremental acceptance of a portion of the prime contract, the work of a subcontractor covered by that acceptance is deemed to be satisfactorily completed.

Payment of retainage for state and local projects is governed by Minnesota Statutes §337.10 and Minnesota Statutes §15.72.

State law does not require retainage to be withheld. The contractor may not withhold more than 5% in retainage from a subcontractor, as provided by Minnesota Statutes §337.10 subd. 4 (b). The contractor must pay any retainage no later than 10 days after the Contractor receives payment of retainage from the Department, unless there is a dispute about the work under a subcontract. If there is a dispute about the work under a subcontract, the contractor must pay out retainage to any subcontractor whose work is not involved in the dispute, and must provide a written statement detailing the amount and reason for the withholding to the affected subcontractor.

SP-11 (1806) DETERMINATION AND EXTENSION OF CONTRACT TIME

The Contract Time will be determined in accordance with the provisions of MN/DOT 1806 and the following:

1. Construction operations shall be started on or before TBD or within ten (10) calendar days after the date of Notice to Proceed, whichever is later.

2. Substantial Completion. All work under this Contract shall be substantially complete on or before TBD. For this project, Substantial Completion shall be deemed to include ALL work in the Contract, except the following items: Clean up and demobilization.

3. Final Completion. ALL work required under this Contract shall be complete on or before TBD.

4. The third exemption listed under the second paragraph of the provisions of MN/DOT 1806.3 is modified to the extent that the phrase “(3) During the inclusive period from November 15 through April 15, except as specified in 1806.1...” is deleted.

5. No work which will restrict or interfere with traffic shall be performed between 12:00 noon on the day preceding and 6:30 a.m. on the day following any consecutive combination of a Saturday, Sunday, and legal holiday without written permission from the Engineer.
   
   (A) If the Contractor chooses not to work at all on the day preceding the holiday period, no working day charges will be assessed.

   (B) If the Contractor chooses to work prior to 12:00 noon on the day preceding the holiday period or if the Contractor obtains written permission to work after 12:00 noon on the day preceding the holiday period, working day charges will be assessed only for the actual hours worked.
6. When all, or a portion, of the Contract Time is specified as a calendar completion date, the time is presumed to have been determined by considering the Proposal quantities, normal weather for the locality and season of the year, and the necessity of having the work completed by the specified date. The time may be extended by the Engineer only if the delay is considered “Excusable” in accordance with MN/DOT 1806.2 Types of Delays.

SP-12 **(1807) FAILURE TO COMPLETE WORK ON TIME**

The provisions of MN/DOT 1807 shall apply in full to both the Substantial Completion Date and the Final Completion Date.

SP-13 **(1906) PARTIAL PAYMENTS**

Section 1906 Partial Payments of the City of Duluth Construction Standard is hereby deleted and replaced with the following:

Partial Payments shall be made in accordance with the provisions of MN/DOT 1906 and the following:

A. Prior to Substantial Completion: The first sentence of Paragraph Three shall be amended to read as follows: “From the total of the amounts ascertained as payable, five percent (5%) will be deducted and retained by the City for the protection of its interests as hereinafter provided. The balance, less all previous payments, will be certified for payment.” The City will withhold eight percent (8%) from out of state contractors unless a waiver has been granted from the State of Minnesota, Department of Revenue by submitting Form SDE, Exemption from Surety Deposits for Non-Minnesota Contractors.

B. All provisions for partial payments shall apply to domestic materials only. No payments shall be made to the Contractor for materials manufactured outside of the United States until such materials have been delivered to the job site.

C. After ‘Substantial Completion’, the City may withhold no more than: (1) 250 percent of the cost to correct or complete work known at the time of substantial completion; and (2) one percent of the value of the contract or $500, whichever is greater, pending completion and submission of all final paperwork by the contractor or subcontractor.

SP-14 **(1908) FINAL PAYMENTS**

Section 1908 Final Payments of the City of Duluth Construction Standard is hereby deleted and replaced with the following:

Final Payment shall be made in accordance with the provisions of MN/DOT 1908 and the following:
1) The final estimate will show the balance due the Contractor after making all legal and specified forfeitures and deductions. This balance will then be paid by the City to the Contractor within thirty (30) days after such estimate is presented to and accepted by the Contractor or within forty-five (45) days after such estimate is presented to and not acted upon by the Contractor, less allowable retainage per Minnesota Statutes 15.72 subdivision 2. At such time, the paid final estimate shall be considered valid with no further compensation due the Contractor.

2) The City will withhold and retain up to the allowable retainage per Minnesota Statutes 15.72 subdivision 2 of the final estimate for a period of up to the date of Final Contract Acceptance (MN/DOT 1516.4).

3) Where the provisions of MN/DOT 2571.3.K Plant Establishment Period pertain to the contract, the City will withhold and retain an amount equal to the final value of planting bid items or one percent (1%) of the final estimate, whichever is greater, for a period of up to two calendar years after the initial planting operations are complete.

4) State Law provides that the final estimate will be made within 90 days after completion of all work required under this Contract. If, however, the total value of the Contract exceeds $2,000,000.00, the 90-day requirement will not apply and the time allowed for making such final estimate shall be 180 days after the work under this Contract has been, in all things, completed to the satisfaction of the Commissioner.

5) If this Contract contains a "Disadvantage Business Enterprise or Targeted Group Business" goal, the following requirement shall apply:

"Before final payment is made, the Contractor shall also complete an affidavit showing the total dollar amounts of work performed by disadvantaged business enterprise (DBE) and targeted group business (TGB) and/or veteran-owned small business."

SP-15 (2301/2521/2531) CONCRETE PLACEMENT RESTRICTION (EXPOSURE TO SALT)

In addition to the pertinent provisions of MN/DOT and the City of Duluth Construction Standards, the following restriction applies to all concrete “flatwork” (i.e. curb, curb and gutter, sidewalk, driveways, pavement) that is typically exposed to road salt and/or deicing chemicals:

The Contractor shall not place concrete flatwork after October 15th without the written approval of the City’s Chief Engineer of Transportation.

SP-16 (2451) EXCAVATION, BACKFILL AND COMPACTION FOR UTILITIES – TRENCH BACKFILL

The provisions of section 2451 of the City of Duluth ‘Construction Standards’ are supplemented with the following:

Trench backfill above the top of encasement zone and below the subgrade shall be accomplished entirely with suitable salvaged on-site select grading materials meeting the City’s Construction Standards.

The Engineer will determine if any material is suitable for use as trench backfill.
Where the Engineer determines that acceptable select grading material is not available within the site, the Contractor shall provide imported granular backfill or common backfill which will be considered Extra Work and the Contractor will be compensated under the provisions of MN/DOT 1904. Any Extra Work payments made for imported backfill shall be considered compensation in full for furnishing backfill materials to the site and disposing of waste excavation. No separate payment will be made for placing and compacting imported backfill materials.

All costs for placing and compacting backfill (regardless of type: select grading material, common or granular) shall be considered incidental to relevant Contract bid items.

SP-17 (2503) CHEMICAL GROUT - PRESSURE TESTING AND POINT REPAIRS

A. Description
This work involves pressure testing and chemical grouting of sewer joints and lateral connections. All products and construction methods shall be in accordance with industry standards. Contractor shall submit specific product literature and installation procedures to Engineer for review at least 3 weeks prior to installation.

B. Documentation
The Contractor shall provide a report of all joints and service connections tested. As a minimum, the report shall include the following: operator’s name, equipment identification, date, time, location in pipe footage from reference manhole, surface location/description of entry manhole, and pressure test observations.

The Contractor shall provide a report of all chemical grout point repairs. As a minimum, the report shall include the following: operator’s name, equipment identification, date, time, location in pipe footage from reference manhole, surface location/description of entry manhole, grout materials used, set time, and observations.

The documentation reports are an essential component of the final acceptance of the work.

C. Measurement
Measurement for pressure testing pipe joints will be made for each joint or service connection tested. Measurement for chemical grout point repair will be made for each repair complete and accepted.

D. Payment
Payment for testing joints will be made under bid item 2503.602 (Pipe Joint Pressure Test – Service Lateral Connection) or 2503.602 (Pipe Joint Pressure Test – Mainline Pipe Joint) at the contract unit bid price per each which shall be considered compensation in full for all labor, equipment, and materials necessary to complete the work.
Payment for chemical grout point repairs will be made under bid item 2503.602 (Chemical Grout Point Repair – Service Lateral Connection) or 2503.602 (Chemical Grout Point Repair – Mainline) at the contract unit bid price per each which shall be considered compensation in full for all labor, equipment, and materials necessary to complete the work.

SP-18 HIGH PRIOTIRY AREAS
A. Description

Special Excavation Site D has a high priority. This includes 2 separate sections to dig and replace sunken sections of sanitary sewer. This is found on page 15 of the plan set. Site is known to have additional utilities including shallow abandoned gas main.

Special Excavation Site D Finish by October 1, 2022

SP-19 (2503) SPOT REPAIRS
A. Description

This work involves replacing sections of existing sanitary sewer that are found to be collapsed, displaced, severely fractured, or otherwise restrictive. The purpose of the spot repair is to create an improved pipe section so that after the CIPP liner is installed, the resulting “lined pipe” will provide a uniform pipe section.

B. Materials

All materials shall be in accordance with the 2019 City of Duluth Construction Standard as supplemented with the following:

1) Pipe for spot repairs shall be PVC SDR 35. The pipe shall be assumed to be a nominal 10 feet in length and a diameter matching the inside diameter of the existing pipe.

2) Pipe encasement for spot repairs shall be in accordance with City of Duluth Standard Detail Drawing EX-3 “PVC and Corrugated Polyethylene Sewer Pipe Bedding Detail”

3) Trench backfill for spot repairs shall be suitable native materials. Refer to section 2451 of these special provisions.

4) Lawn restoration for spot repairs shall consist of topsoil, seed, fertilizer, and mulch in accordance with section 2575 “Turf Establishment” of the Construction Standard.

5) Street restoration for spot repairs shall match the existing pavement section and type, or (as a minimum) be in accordance with City of Duluth Standard Detail Drawing STR-8 “Street Restoration over Trench”.

C. Construction
SPECIAL PROVISIONS
City Job Number: 2037
2022 Citywide CIPP Lining
June 23, 2022

All construction methods shall be in accordance with the pertinent provisions of the 2019 City of Duluth Construction Standards as supplemented with the following:

1) Spot repairs shall be identified by the Contractor as part of the pre-installation CCTV inspection, AFTER the preparatory pipe cleaning is complete. The Contractor shall provide the pre-installation CCTV inspection recordings to the Engineer so that the necessity for the spot repair can be confirmed.

2) The Contractor shall make all necessary notifications, permits, traffic controls, and bypass pumping deemed necessary by the Engineer to perform the repair in a safe and convenient manner.

3) The Contractor shall perform CCTV inspection immediately prior to CIPP lining to confirm the completed spot repairs are adequate for the intended purpose.

D. Measurement and Payment

The Engineer will separately measure spot repairs as individual units complete in place. For spot repairs requiring a pipe length longer than 10 feet, the Engineer prorate the number of units based on the actual length of pipe installed.

1) General. Unless otherwise noted as a special location (below), payment for spot repairs will be made under bid item 2503.602 Spot Repair – Non-Street Area (depth) or under bid item 2503.602 Spot Repair – Street Area (depth) at the Contract bid price per each, which shall be compensation in full for all costs, including but not limited to, equipment, labor, and materials necessary to excavate, remove old pipe, provide and install new pipe, pipe bedding, trench backfill, and restoration of either lawn or street area disturbed by the work.

SP-20 (2506) REPAIRS – SPECIAL A

A. Description

This work involves replacing sections of existing sanitary sewer that are found to be collapsed, displaced, severely fractured, or otherwise restrictive with a section of new PVC sanitary sewer pipe. This section is approximately 100’ in length.

B. Materials

All materials shall be in accordance with the 2019 City of Duluth Construction Standard as supplemented with the following:

1) Manholes for spot repairs shall be in accordance with the City of Duluth Standard Detail Drawing SAN-11, including bedding, casting and tracer wire. Contractor shall verify depth of sanitary main prior to ordering structure.

2) Pipe encasement for exposed pipe during construction shall be in accordance with City of Duluth Standard Detail Drawing EX-3 “PVC and Corrugated Polyethylene Sewer Pipe Bedding Detail”

3) Trench backfill for spot repair special shall be suitable native materials. Refer to section 2451 of these special provisions.
4) Lawn restoration for spot repair special shall consist of topsoil, seed, fertilizer, and mulch in accordance with section 2575 “Turf Establishment” of the Construction Standard.

5) Street restoration for spot repair special shall match the existing pavement section and type, or (as a minimum) be in accordance with City of Duluth Standard Detail Drawing STR-8 “Street Restoration over Trench”.

C. Construction
All construction methods shall be in accordance with the pertinent provisions of the 2019 City of Duluth Construction Standards as supplemented with the following:

1) Spot repairs shall be identified by the Contractor as part of the pre-installation CCTV inspection and located with exploratory digs, AFTER the preparatory pipe cleaning is complete. The Contractor shall provide the pre-installation CCTV inspection recordings to the Engineer so that the necessity for the spot repair can be confirmed.

2) The Contractor shall make all necessary notifications, permits, traffic controls, and bypass pumping deemed necessary by the Engineer to perform the repair in a safe and convenient manner.

D. Measurement and Payment
The Engineer will separately measure spot repair special as individual units complete in place. The payment will be for all work performed for the individual structure. This includes all sawcutting, excavation, bedding, backfill, casting, tracer wire and restoration.

SP-20 (2506) SPOT REPAIRS – SPECIAL B

A. Description
This work involves replacing sections of existing sanitary sewer that are found to be collapsed, displaced, severely fractured, or otherwise restrictive with a new manhole structure and PVC sanitary sewer pipe. Additionally, the abandonment of SA0150084 would be required. This section is approximately 278’ in length and includes one new man hole PMH-B1. Slip lining is also an option which would include multiple dig locations for laterals and host pipe to be sand-filled.

B. Materials
All materials shall be in accordance with the 2019 City of Duluth Construction Standard as supplemented with the following:

6) Manholes for spot repairs shall be in accordance with the City of Duluth Standard Detail Drawing SAN-11, including bedding, casting and tracer wire. Contractor shall verify depth of sanitary main prior to ordering structure.

7) Pipe encasement for exposed pipe during construction shall be in accordance with City of Duluth Standard Detail Drawing EX-3 “PVC and Corrugated Polyethylene Sewer Pipe Bedding Detail”
8) Trench backfill for spot repair special shall be suitable native materials. Refer to section 2451 of these special provisions.

9) Lawn restoration for spot repair special shall consist of topsoil, seed, fertilizer, and mulch in accordance with section 2575 “Turf Establishment” of the Construction Standard.

10) Street restoration for spot repair special shall match the existing pavement section and type, or (as a minimum) be in accordance with City of Duluth Standard Detail Drawing STR-8 “Street Restoration over Trench”.

C. Construction

All construction methods shall be in accordance with the pertinent provisions of the 2019 City of Duluth Construction Standards as supplemented with the following:

3) PMH-B1 Spot repairs shall be identified by the Contractor as part of the pre-installation CCTV inspection and located with exploratory digs, AFTER the preparatory pipe cleaning is complete. The Contractor shall provide the pre-installation CCTV inspection recordings to the Engineer so that the necessity for the spot repair can be confirmed.

4) The Contractor shall make all necessary notifications, permits, traffic controls, and bypass pumping deemed necessary by the Engineer to perform the repair in a safe and convenient manner.

D. Measurement and Payment

The Engineer will separately measure spot repair special as individual units complete in place. The payment will be for all work performed for the individual structure. This includes all sawcutting, excavation, bedding, backfill, casting, tracer wire and restoration.

SP-20 (2506) SPOT REPAIRS – SPECIAL C

A. Description

This work involves replacing sections of existing sanitary sewer that are found to be collapsed, displaced, severely fractured, or otherwise restrictive with a new manhole structure. This section is approximately 5’ in length and includes new manhole PMH-C1.

B. Materials

All materials shall be in accordance with the 2019 City of Duluth Construction Standard as supplemented with the following:

11) Manholes for spot repairs shall be in accordance with the City of Duluth Standard Detail Drawing SAN-11, including bedding, casting and tracer wire. Contractor shall verify depth of sanitary main prior to ordering structure.

12) Pipe encasement for exposed pipe during construction shall be in accordance with City of Duluth Standard Detail Drawing EX-3 “PVC and Corrugated Polyethylene Sewer Pipe Bedding Detail”
13) Trench backfill for spot repair special shall be suitable native materials. Refer to section 2451 of these special provisions.

14) Lawn restoration for spot repair special shall consist of topsoil, seed, fertilizer, and mulch in accordance with section 2575 “Turf Establishment” of the Construction Standard.

15) Street restoration for spot repair special shall match the existing pavement section and type, or (as a minimum) be in accordance with City of Duluth Standard Detail Drawing STR-8 “Street Restoration over Trench”.

C. Construction

All construction methods shall be in accordance with the pertinent provisions of the 2019 City of Duluth Construction Standards as supplemented with the following:

5) PMH-C1 Spot repairs shall be identified by the Contractor as part of the pre-installation CCTV inspection and located with exploratory digs, AFTER the preparatory pipe cleaning is complete. The Contractor shall provide the pre-installation CCTV inspection recordings to the Engineer so that the necessity for the spot repair can be confirmed.

6) The Contractor shall make all necessary notifications, permits, traffic controls, and bypass pumping deemed necessary by the Engineer to perform the repair in a safe and convenient manner.

D. Measurement and Payment

The Engineer will separately measure spot repair special as individual units complete in place. The payment will be for all work performed for the individual structure. This includes all sawcutting, excavation, bedding, backfill, casting, tracer wire and restoration.

SP-20 (2506) SPOT REPAIRS – SPECIAL D

A. Description

This work involves replacing sections of existing sanitary sewer that are found to be collapsed, displaced, severely fractured, or otherwise restrictive with a new sections of PVC pipe. This spot includes two sections of new PVC sanitary sewer main that is approximately 20’ and 30’ in length.

B. Materials

All materials shall be in accordance with the 2019 City of Duluth Construction Standard as supplemented with the following:

16) Manholes for spot repairs shall be in accordance with the City of Duluth Standard Detail Drawing SAN-11, including bedding, casting and tracer wire. Contractor shall verify depth of sanitary main prior to ordering structure.

17) Pipe encasement for exposed pipe during construction shall be in accordance with City of Duluth Standard Detail Drawing EX-3 “PVC and Corrugated Polyethylene Sewer Pipe Bedding Detail”
18) Trench backfill for spot repair special shall be suitable native materials. Refer to section 2451 of these special provisions.

19) Lawn restoration for spot repair special shall consist of topsoil, seed, fertilizer, and mulch in accordance with section 2575 “Turf Establishment” of the Construction Standard.

20) Street restoration for spot repair special shall match the existing pavement section and type, or (as a minimum) be in accordance with City of Duluth Standard Detail Drawing STR-8 “Street Restoration over Trench”.

C. Construction

All construction methods shall be in accordance with the pertinent provisions of the 2019 City of Duluth Construction Standards as supplemented with the following:

7) Spot repairs shall be identified by the Contractor as part of the pre-installation CCTV inspection and located with exploratory digs, AFTER the preparatory pipe cleaning is complete. The Contractor shall provide the pre-installation CCTV inspection recordings to the Engineer so that the necessity for the spot repair can be confirmed.

8) The Contractor shall make all necessary notifications, permits, traffic controls, and bypass pumping deemed necessary by the Engineer to perform the repair in a safe and convenient manner.

E. Measurement and Payment

The Engineer will separately measure spot repair special as individual units complete in place. The payment will be for all work performed for the individual structure. This includes all sawcutting, excavation, bedding, backfill, casting, tracer wire and restoration.

The Engineer will separately measure spot repair special as individual units complete in place. The payment will be for all work performed for the individual structure. This includes all sawcutting, excavation, bedding, backfill, casting, tracer wire and restoration.

SP-20  (2506) SPOT REPAIRS – SPECIAL E

A. Description

This work involves replacing sections of existing sanitary sewer that are found to be collapsed, displaced, severely fractured, or otherwise restrictive with a two new manhole structures and new PVC sanitary sewer main that is approximately 50’ in length and includes manholes PMH-E1 and PMH-E2

B. Materials

All materials shall be in accordance with the 2019 City of Duluth Construction Standard as supplemented with the following:
21) Manholes for spot repairs shall be in accordance with the City of Duluth Standard Detail Drawing SAN-11, including bedding, casting and tracer wire. Contractor shall verify depth of sanitary main prior to ordering structure.

22) Pipe encasement for exposed pipe during construction shall be in accordance with City of Duluth Standard Detail Drawing EX-3 “PVC and Corrugated Polyethylene Sewer Pipe Bedding Detail”

23) Trench backfill for spot repair special shall be suitable native materials. Refer to section 2451 of these special provisions.

24) Lawn restoration for spot repair special shall consist of topsoil, seed, fertilizer, and mulch in accordance with section 2575 “Turf Establishment” of the Construction Standard.

25) Street restoration for spot repair special shall match the existing pavement section and type, or (as a minimum) be in accordance with City of Duluth Standard Detail Drawing STR-8 “Street Restoration over Trench”.

C. Construction

All construction methods shall be in accordance with the pertinent provisions of the 2019 City of Duluth Construction Standards as supplemented with the following:

9) Spot repairs shall be identified by the Contractor as part of the pre-installation CCTV inspection and located with exploratory digs, AFTER the preparatory pipe cleaning is complete. The Contractor shall provide the pre-installation CCTV inspection recordings to the Engineer so that the necessity for the spot repair can be confirmed.

10) The Contractor shall make all necessary notifications, permits, traffic controls, and bypass pumping deemed necessary by the Engineer to perform the repair in a safe and convenient manner.

D. Measurement and Payment

The Engineer will separately measure spot repair special as individual units complete in place. The payment will be for all work performed for the individual structure. This includes all sawcutting, excavation, bedding, backfill, casting, tracer wire and restoration.

SP-21  (2503) CLEAN & TELEVISE SEWER MAIN NOT TO BE LINED

A. Description

This work involves cleaning and CCTV inspection of sanitary sewer main, for pipe that does not get CIPP liner, to facilitate visual confirmation and dye testing of active service lateral connections.

B. Measurement and Payment

Measurement of ‘cleaning and televising sewer main not to be lined’ will be length in linear feet from center of manhole to center of manhole. Payment for cleaning and televising pipe that does not get a CIPP liner will be made under bid item 2503.602 (Clean & Televising Sewer Main Not To Be Lined) at the contract unit bid price per linear feet which shall be considered compensation in full
for all labor, equipment, and materials including mobilization, cleaning, CCTV inspection, inspection report, coordination with active service connection dye testing, and providing an electronic video inspection file.

SP-22 (2563) TEMPORARY TRAFFIC MANAGEMENT

The provisions of 2563 is supplemented with the following:

Short-term temporary traffic controls in accordance with the Minnesota Temporary Traffic Control Field Manual will be required for the daily operations of pipe cleaning, CCTV inspection, dye testing, and CIPP lining work where the manholes are located in traffic lanes and/or shoulders.

Where long-term lane/shoulder closures may be required to accommodate excavation for spot repairs, the temporary traffic controls shall be in accordance with the MN MUTCD. The Contractor shall prepare and submit temporary traffic control plan to the Engineer for review at least 3 weeks prior to the work.

- END -
## SCHEDULE OF ESTIMATED QUANTITIES

<table>
<thead>
<tr>
<th>NOTES</th>
<th>LINE</th>
<th>SPEC. NO.</th>
<th>DESCRIPTION</th>
<th>UNITS</th>
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**NOTES**

1. QUANTITY IS AN ESTIMATE. EXACT QUANTITY AND LOCATION OF WORK TO BE IDENTIFIED AFTER PRE-LINING TELEVISION INSPECTION.
STORMWATER MANAGEMENT AND EROSION CONTROL REQUIREMENTS

1. CITY OF DULUTH PROJECT #107 IS A SURFACE DRAIN Lining PROJECT WITH EXCAVATION FOR SEWER SPOT REPAIRS, WHERE UTILITY EXCAVATION IS NEEDED, THE FOLLOWING SHALL APPLY: SURFACE RESTORATION WILL BE IN KIND WITH EXISTING AND WILL NOT ADD TO IMPERVIOUS SURFACES. THE CITY OF DULUTH WSA GENERAL PERMIT WILL APPLY. THE CONTRACTOR AND THE CITY SHOULDN'T BE RESPONSIBLE FOR EXCAVATING PERMIT CONDITIONS ARE NOT.

2. VARIOUS SPOT REPAIR EXCAVATIONS ARE ESTIMATED FOR THIS PROJECT, FOR A TOTAL OF 700 SQUARE FEET OF LAND DISTURBANCE, RUNOFF FROM ALL SITES PLANS TO THE LOCAL STORM SEWER AND EVENTUALLY MAKE SUPERIOR.

3. FOR EXCAVATION WORK, THE CONTRACTOR SHALL COMPLETE, SURVEY AND ADVISE THE CITY OF DULUTH "EXCISE AND SEGMENT CONTROL APPLICATION AND PERMIT" FORM IN THE SPECIFIC SITE EXCISED CONTROL PLAN AND SEGMENTING NARRATIVE. THESE DOCUMENTS SHALL BE SUBMITTED 7 DAYS PRIOR TO BEGINNING EXCAVATION ACTIVITIES.

4. THE EXCISE NEEDED TO LOCATE AND SEQUESTRATE EXCISED CONTROLS WILL BE DEPENDENT ON THE CONTRACTORS CHOSEN EQUIPMENT, CONSTRUCTION PRACTICES, CONSTRUCTION SEQUENCING, AND MATERIALS AS EQUIPMENT PLACEMENT DECISIONS. THE CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THE EXCISE AND SEGMENT CONTROL DEVICES AND PRACTICES ARE APPROPRIATE FOR THE CONTRACTORS' MEANS AND METHODS FOR CONSTRUCTION.

5. CONTRACTORS SHALL BE INFORMED OF SPECIFIC STORED QUANTITIES THAT HAVE BEEN INCLUDED IN CONTRACTED EXCISED CONTROL DEVICES. EXCISED CONTROL DEVICES MUST BE APPROVED BY THE ENGINEER BUT MAY NOT BE INCLUDED IN THE IDP. THE IDP WILL BE PAID FOR BY UNTIL PRICES IN SECTION 25.03 OF THE CITY OF DULUTH CONSTRUCTION STANDARDS.

6. CURRENT WASTE DISPOSAL SPECIFICATIONS FOR EXCISED CONTROL AND THE CONTRACTORS CURRENT CITY OF DULUTH SHALL APPLY.

7. THE CONTRACTOR SHALL DESIGN AN EXCISED CONTROL SUPERVISOR.

8. THE CONTRACTOR SHALL DESIGN A SUPERVISOR IN SITUATIONS WHERE THE SUPERVISOR IS NEEDED DURING THE EXCISED CONTROL SUPERVISOR'S TUTITION OF EACH EXCISED CONTROL PERIOD AND AT LEAST ONE HOURS DURING EACH DAY'S WORK. THE SUPERVISOR SHALL BE KEPT A WITNESS OF THE SUPERVISOR'S ACTIVITIES AND CONSTRUCTION ACTIVITY TO THE SUPERVISOR.

9. THE CONTRACTOR SHALL REVIEW THE EXCISED CONTROL PLAN & SCHEDULE WEEKLY WITH THE ENGINEER AND MAKE ADJUSTMENTS/ADJUSTMENT AS NEEDED.

10. THE CONTRACTOR SHALL PROVIDE/EXECUTE THE PROJECT TO MANAGE EXCISED CONTROL DEVICES FOR THE CONTRACTOR SHALL PLACE OR CONSTITUTE CONSTRUCTION CONTROL AND SEGMENT CONTROL DEVICES TO MANAGE THE RUNOFF, TRACKING, AND SEGMENT LINE DISTURBED AREAS OF THE PROJECT SITE.

11. DISTURBED SOILS THAT ACTIVELY WORKED SHALL BE PROTECTED FROM SOIL EROSION WITH TEMPORARY OR PERMANENTCOVERS. SOILS THAT ACTIVELY WORKED FROM THE DISTURBED SOILS SHALL BE USED TO REPAIR THE DISTURBED SOILS.

12. ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CUTTIES INTO EXISTING DRAINAGE WAYS.

13. ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CUTTIES INTO EXISTING DRAINAGE WAYS.

14. ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CUTTIES INTO EXISTING DRAINAGE WAYS.

15. ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CUTTIES INTO EXISTING DRAINAGE WAYS.

16. ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CUTTIES INTO EXISTING DRAINAGE WAYS.

17. THE CONTRACTOR OR SUPPLIER SHALL ENSURE THAT THE COMPLETE PROJECTS EXCISED AND SEGMENT CONTROL DEVICES SEEN BY THE CONTRACTOR'S SUPERVISOR BEFORE EACH PRODUCTION WORK.

18. THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO INFLUENCE THE IMPLEMENTATION METHOD 4 (STORM 2657) AT ALL TIMES.

19. THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO INFLUENCE THE IMPLEMENTATION METHOD 4 (STORM 2657) AT ALL TIMES.

20. AT'THE CONTRACTOR SHALL MAINTAIN THE ABILITY TO INFLUENCE THE IMPLEMENTATION METHOD 4 (STORM 2657) AT ALL TIMES.

21. CONSTRUCTION ACTIVITY PERFORMED WITHOUT APPROPRIATE EXCISED CONTROL BEST MANAGEMENT PRACTICES MAY BE CONSIDERED UNACCEPTABLE WORK AND MAY BE SUBJECT TO NONPAYMENT.
TRAFFIC CONTROL REQUIREMENTS:
1. All traffic control devices and signs shall conform to the current Minnesota Manual on Uniform Traffic Control Devices including the Minnesota Temporary Traffic Control Field Manual.
2. The contractor shall use the manual on uniform traffic control devices and select the appropriate temporary traffic control zone layout.
3. The contractor shall furnish, install, adjust, maintain, and remove all necessary traffic control signs and devices in the appropriate temporary traffic control zone layout.
4. Field conditions may require modifications of individual layouts as deemed necessary by the engineer.
5. Additional signs and traffic control devices on alternate layouts may be necessary depending on the type and sequence of the contractor’s operation. All changes to the traffic control plan must be approved by the engineer. No additional compensation will be made for changes resulting from the contractor’s operations.
6. The contractor shall reimburse compensation for all necessary traffic control work, whether shown in this plan or otherwise, on the basis of a lump sum payment for item traffic control (2563.03).
7. The contractor is responsible for paying any work areas near traffic in accordance with wanted.
8. All traffic control devices on roads open to traffic that are not consistent with traffic operation shall be covered, removed, or revised as directed by the engineer.
9. All devices shall be moved or covered as soon as they are no longer required or appropriate.
10. Contractor to verify all existing sign sizes and prepare custom signs appropriately.
11. Work performed without appropriate traffic control in place may be considered unauthorized work and may be subject to nonpayment.
12. Prior to lane or road closures, the contractor shall submit a written request along with a proposed traffic control plan 7 days prior to beginning work for approval by the engineer.
13. Prior to closing roads the contractor shall contact the following authorities 48 hours in advance of closure:
   13.1. 911
   13.2. Duluth Fire Department 730-4400
   13.3. Duluth Police Department 730-5400
   13.4. Engineering Field Boss 730-5300
   13.5. SDT (only when it affects a bus route)
   13.6. Duluth School District/Bus (Notify all three contacts)
      Steven Johnson (Transportation) 336-8700 Ext 4005
      Dale Hotakak (Transportation) 348-8379
      Voyager Bus (D. Jock, email) 724-1707
   13.7. St. Louis County Communications Supervisor
      Emily Wisniewski 330-4340
   13.8. Summit Shuttle (only UMD/Schoolbus/Rice Lake Rd/W. Arrowhead Rd)
      Jeff Richards 651-705-3313 or 651-373-6137 (g)

DRAFT

THUS CERTIFIED THAT THE PLAN WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT I AM A LOT DESIGNER PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE _______________________________ DATE: ____________
THW A. ROOS
LE: NO. 50461
TYPE NAME

CITY OF DULUTH
ENGINEERING DEPARTMENT
411 IR. 1ST ST. NW. 240
DULUTH, MN 55802

2022 CITYWIDE SANITARY SEWER OPP LINING

CITY PROJECT NO.: 2037
STATE AID PROJECT NO.: NA
SHEET NO. B OF 42
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ___________________________ LIC. NO: 50401 DATE: 3/1/2022

CITY OF DULUTH ENGINEERING DIVISION
411 W. 1ST ST., RM 240
DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING
CITY PROJECT NO.: 1955

DRAWN BY: JJM
PAGE 21

OVERVIEW MAP

PLAN

0 40 80 120 160 FEET

LEGEND

- Proposed Liner
- SANITARY MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- SANITARY MAIN
- STORM MAIN
- GAS MAIN
- WATER MAIN

SL0560008
CIPP LINE 88.0' OF 8" VCP @ 2.86%
EST. ACT. SERVICES: 1
NOTES:

SL0560009
CIPP LINE 129.1' OF 8" VCP @ 6.84%
EST. ACT. SERVICES: 4
NOTES:

SL0560037
CIPP LINE 288.7' OF 8" VCP @ 8.77%
EST. ACT. SERVICES: 5
NOTES:

SL0560038
CIPP LINE 339.7' OF 8" VCP @ 9.7%
EST. ACT. SERVICES: 6
NOTES:
OVERVIEW MAP

PLAN

SLD010008
CIPP LINE 193.2' OF 8" VCP @ 5.05%
EST. ACT. SERVICES: 3
NOTES: END SEALS, CHEMICAL GROUT, DROP MANHOLE

SLD010007
CIPP LINE 365.9' OF 8" VCP @ 3.28%
EST. ACT. SERVICES: 3
NOTES: END SEALS, CHEMICAL GROUT

SLD010023
CIPP LINE 214.9' OF 10" VCP @ 0.8%
EST. ACT. SERVICES: 0
NOTES: END SEALS

OVERVIEW MAP

PLAN

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:_________________________ LIC. NO.: 50401 DATE: 3/1/2022

CITY OF DULUTH ENGINEERING DIVISION 411 W. 1ST ST. RM. 240 DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING CITY PROJECT NO.: 1955

DRAWN BY: JJM PAGE 27
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ___________________________ LIC. NO: 50401 DATE: 3/1/2022

CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST, RM 240
DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING
CITY PROJECT NO.: 1955
DRAFT
DRAWN BY: JJM
PAGE 30
SL0240048
CIPP LINE 254.2' OF 10'' VCP @ 2.27%
EST. ACT. SERVICES: 0
NOTES: END SEALS

SL0240039
CIPP LINE 185.0' OF 8'' VCP @ 1.81%
EST. ACT. SERVICES: 4
NOTES: END SEALS, CHEMICAL GROUT

SL0240049
CIPP LINE 120.7' OF 10'' VCP @ 1.18%
EST. ACT. SERVICES: 0
NOTES: END SEALS
OVERVIEW MAP

PLAN

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ___________________________ LIC. NO: 50401 DATE: 3/1/2022

CITY OF DULUTH ENGINEERING DIVISION 411 W. 1ST ST. RM. 240 DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING CITY PROJECT NO.: 1955

DRAWN BY: JMJ PAGE 35

0 40 80 160 FEET

LEGEND
- Proposed Liner
- SANITARY MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- SANITARY MAIN
- STORM MAIN
- GAS MAIN
- WATER MAIN

SL0220018 CIPP LINE 250.7' OF 8" VCP @ 2.71% EST. ACT. SERVICES: 0 NOTES: END SEALS

SL0220093 CIPP LINE 189.2' OF 16" VCP @ 0.13% EST. ACT. SERVICES: 0 NOTES: END SEALS
SL0240037
CIPP LINE 267.4' OF 8" VCP @ 4.6%
EST. ACT. SERVICES: 5
NOTES: END SEALS, CHEMICAL GROUT
OVERVIEW MAP

Legend:
- Proposed Liner
- Sanitary Manhole
- Storm Manhole
- Storm Catch Basin
- Sanitary Main
- Storm Main
- Gas Main
- Water Main

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ___________________________ LIC. NO.: 60401 DATE: 3/1/2022

CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST. RM. 240
DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING
CITY PROJECT NO.: 1955

DRAWN BY: JJM

PAGE 37
OVERVIEW MAP

PLAN

SA0360084
SA0360088
SA0360086
W 6th St
SA0360087
SA0360086
W 5th St
SA0360092
W 5th St
SA0360091
W 6th St
SA0360094
W 5th St
SA0360093
W 6th St
SA0360092

SPECIAL EXCAVATION "C".
SEE PAGE 14 AND PROJECT SPECIAL PROVISIONS.

SL0360092
CIPP LINE 63.7' OF 8" VCP @ %
EST. ACT. SERVICES: 3
NOTES:

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ________________________ LIC. NO: 50401 DATE: 3/1/2022

CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST, RM. 240
DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING
CITY PROJECT NO.: 1955

DRAWN BY: JMJ
PAGE 39
OVERVIEW MAP

PLAN

SL0670015
CIPP LINE 200.1" OF 8" VCP @ 4%
EST. ACT. SERVICES: 1
NOTES:

SL0670014
CIPP LINE 208.4" OF 8" VCP @ 5.95%
EST. ACT. SERVICES: 3
NOTES:

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: ____________________________  LIC. NO: 50401  DATE: 3/1/2022

CITY OF DULUTH
ENGINEERING DIVISION
411 W. 1ST ST., RM. 240
DULUTH, MN 55802

2021 CITYWIDE SANITARY SEWER CIPP LINING
CITY PROJECT NO.: 1955

DRAWN BY: JMJ
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OVERVIEW MAP

LEGEND
- Proposed Liner
- SANITARY MANHOLE
- STORM MANHOLE
- STORM CATCH BASIN
- SANITARY MAIN
- STORM MAIN
- GAS MAIN
- WATER MAIN

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

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