



**CITY OF DULUTH, MN
REQUEST FOR PROPOSALS FOR**

**Engineering Services for Lead Water Service Replacements
(Fairmont 1 and Lincoln 4)**

Issued May 23, 2024

Solicitation Number: 24-99513

**Proposals Due: June 11, 2024
4:00 PM Central Time**

PROJECT OVERVIEW

The City of Duluth is interested in retaining one or more consultants to provide engineering services for design services for the replacement of lead services on both public and private property.

BACKGROUND

The City of Duluth is pursuing funding from the Minnesota Department of Health Public Facilities Authority (PFA) for the replacement of lead services within the City. This funding has been approved at both the State and Federal levels for municipalities to use on both public and private water services. The City is confident they will be awarded both loan and grant dollars for this project.

The Lead and Copper Rule (LCR) is a federal regulation established in 1991 to ensure that public water systems act to reduce levels of lead and copper in drinking water. On January 15, 2021, the Environmental Protection Agency (EPA) issued revisions to the LCR, known as the Lead and Copper Rule Revisions (LCRR). Water systems are required to comply with these revised regulations by October 16, 2024. Additionally, on December 6, 2023, the EPA published the proposed Lead and Copper Rule Improvements (LCRI), which are expected to further reduce exposure to lead in drinking water. The LCRI proposal builds upon the LCRR and the original LCR. The EPA intends to finalize the LCRI before the compliance deadline for the LCRR on October 16, 2024.

Lead service lines (LSLs) are the primary source of lead exposure in drinking water. Lead was the most common material used for water services within the City thru 1929 and in the early 1940s. The proposed LCRI is expected to require the vast majority of water systems to replace lead service lines within a period of 10 years. The City's current water service inventory indicates that there are approximately 31,200 water services in Duluth. The City's current estimate of lead service lines (LSLs) and galvanized requiring replacement (GRR) is 10,700 services. The need to replace lead water service lines to protect public health and leverage the available funding is urgent.

Consistent with the requirements of the federal and state grant and funding programs, the City is prioritizing LSL project selection and scoping based on removing lead service lines where they are known to exist as well as targeting areas with: children with elevated blood lead levels; children under the age of five; properties known to be used disproportionately by children; and disadvantaged communities. Accordingly, areas within the Fairmont and Lincoln Park neighborhoods have been designated as target areas for this next phase of lead service replacements.

The City hopes to bid these two (2) lead service replacement (LSLR) projects (Fairmont 1 and Lincoln 4 – see attached maps) in 2025. Each project would include approximately 500 service replacements. The City does not currently have adequate staff to assemble bid plans for these projects. Design for these projects must be completed for submittal to MDH for review and certification no later than December 2024.

The City's goals for the Fairmont 1 and Lincoln 4 LSLR projects include:

- **Protect public health** by eliminating lead contamination from the City's drinking water system to ensure safe and clean drinking water for all residents.
- **Effectively utilize available funding** set aside by State and Federal governments to replace lead water services, thereby minimizing the costs and burdens on residents for private water service replacements.
- **Develop and implement a comprehensive Property Owner Coordination process** that includes scheduling home and building inspections, and securing work agreements with property owners.
- **Perform detailed Site Investigations and Building Inspection** to gather all necessary and required information for a complete and accurate design.
- **Provide a technically complete design** and final plans and specifications that fully meet the project's needs, incorporating a rigorous quality control and quality assurance process overseen by a dedicated quality manager.
- **Fulfil the specified project design and delivery schedule** to meet all City and regulatory plan review deadlines and ensure that the bidding process can take place during the optimal window in the fall/winter of 2024/2025. This will facilitate an early start to construction in the 2025 construction season and ensure the City is able to utilize the available funding for the projects.

The City of Duluth will provide the following to the awarded consultant(s):

- All available street and utility drawings from previous projects.
- Assistance in obtaining other related information in City files pertaining to the project if needed.
- GIS data: The City will extract a subset of its GIS data covering the entire design area for the consultant(s)' use including utilities, lead service information, aerial photography, property information, etc. The consultant is responsible for organizing and manipulating the City provided data to match and generally conform to the symbology, layouts in the Reference Plan Set to complete the design.
- Plans and specifications for the City's Reference Plan Set for the project.

QUESTIONS & ANSWERS

Any questions regarding this RFP must be submitted by e-mail to the Purchasing Office at purchasing@duluthmn.gov. Answers to the questions will be posted as an Addendum to the RFP.

ADDENDA TO THE RFP

If the City deems it necessary to revise any part of this RFP before the proposal response date, the City will post an addendum to its website <http://www.duluthmn.gov/purchasing/bids-request-for-proposals/>. Although an e-mail notification will be sent, it is the Consultant's responsibility to periodically check the website for any new information

SMALL DIVERSE BUSINESS INFORMATION

The City encourages participation by minority, women, and veteran-owned businesses as prime contractors, and encourages all prime contractors to make a significant commitment to use minority, women, veteran-owned and other disadvantaged business entities as subcontractors and

suppliers. A list of certified Disadvantaged Business Enterprises is maintained by the Minnesota Unified Certification Program at <http://mnucp.metc.state.mn.us/>.

MANDATORY DISCLOSURES

By submitting a proposal, each Bidder understands, represents, and acknowledges that:

A. Their proposal has been developed by the Bidder independently and has been submitted without collusion with and without agreement, understanding, or planned common course of action with any other vendor or suppliers of materials, supplies, equipment, or services described in the Request for Proposals, designed to limit independent bidding or competition, and that the contents of the proposal have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder.

B. There is no conflict of interest. A conflict of interest exists if a Bidder has any interest that would actually conflict, or has the appearance of conflicting, in any manner or degree with the performance of work on the project. If there are potential conflicts, identify the municipalities, developers, and other public or private entities with whom your company is currently, or have been, employed and which may be affected.

C. It is not currently under suspension or debarment by the State of Minnesota, any other state or the federal government.

D. The company is either organized under Minnesota law or has a Certificate of Authority from the Minnesota Secretary of State to do business in Minnesota, in accordance with the requirements in M.S. 303.03.

GENERAL PROJECT SCOPE

Consulting Engineering Services are expected to include all work necessary to provide final design including plans and specifications and bidding services.

All work shall be performed in accordance with the most recent versions of the City Standard Specifications and Engineering Guidelines; both are available on the City of Duluth website at <https://duluthmn.gov/engineering/>.

The Consultant may propose on one or both projects assuming 500-lead service replacements for each project. The City may award both projects to one consultant or choose to award one project to two consultants. The City anticipates there may be cost savings for consultants to perform work on more than one project, so each consultant may submit multiple cost proposals for one or both projects (i.e., consultant may submit one technical proposal with a separately-sealed cost proposal for one 500-service project in the Fairmont neighborhood, and a second cost proposal for one 500-service project in the Lincoln Park neighborhood. All cost proposals may be in the same sealed envelope, but must clearly identify how many and which project(s) the proposal is for.)

SCOPE OF SERVICES

1. Initial Site Visit and Consultations

- a. The Consultant shall meet with City of Duluth representatives to review project scope and complexity, design criteria, related requirements, view existing conditions, gather data from the City engineering files and previously prepared designs.
 - i. All aspects of the design shall be conducted in conformance with the City's **Lead Water Service Replacement Design Guidelines** (provided as an attachment to this RFP).
- b. The Consultant shall plan to meet with the City (bi-weekly, at a minimum) for design progress meetings. The Consultant will prepare meeting agendas, minutes, and an issues tracking log and shall provide regular updates on progress for building inspection, work agreements secured, and plan progress. The Consultant's project manager, property owner coordination and building inspection lead, and project design lead are expected to attend all coordination meetings.
- c. The Consultant shall provide all **Property Owner Coordination** to perform a basement inspection of the home to complete the individual Site plan sheets and to secure the signed work Agreement with the property owner to conduct the water service replacement. The City will provide the work Agreement for the Consultant's use and distribution. Signed work Agreements must be returned to the City and organized by property location (address). Owner Notification shall be in accordance with the City's **Lead Water Service Replacement Design Guidelines**.
 - i. The Consultant is responsible for all Property Owner Coordination including mailing notices and physical outreach to homeowners to secure a time for Building Inspection and to obtain the signed work Agreement with the property owner. In preparing their proposal, the Consultant is responsible for assessing the method(s) to be used to secure the Building Inspection and signed work Agreement. No adjustment to the Consultant's scope or fee shall be made for the success or lack thereof of the various methods utilized by the Consultant in securing the Inspection or signed work Agreement from the property owner.
 - ii. The Consultant should assume that many of these inspections will need to occur in the evening or on the weekend when residents are home.
- d. The Consultant shall provide **Building Inspection** of homes and/or businesses to confirm the presence of lead service(s) and/or designated for lead service replacement. The City will provide the selected consultant with a list of properties to be inspected. This inspection shall, at the minimum, be conducted in accordance with the City's **Lead Water Service Replacement Design Guidelines**.

2. Plans and Specifications

- a. The consultant shall prepare construction drawings as necessary to provide for the replacement of existing lead services.
 - i. The selected consultant shall provide a final plan that mirrors the plan composition and drawing standards reflected in the City provided **Reference Plan Set**. The Final plan shall match the Reference Plan Set including the organization and presentation of plan sheets, formatting, plan symbology, text sizes and styles, presentation of quantities and information, and overall plan organization.
 1. The Final Plans shall include the following sheets:
 - a. Title Sheet
 - b. Site Index Maps
 - c. Statement of Estimated Quantities
 - d. Charts
 - e. Construction Details
 - f. Erosion Control Plan & SWPPP
 - g. Lead Service Replacement Site Plans
 - h. Water Main Extension Plan and Profile Sheets
 - i. The consultant design should include provision for the design of fifteen (15) small diameter water main extensions for each project. An example of a water main extension is included in the sample plans. However, the water main extension plan should consist of a plan sheet and a separate profile that includes a water main profile with stationing, intersecting utilities, bedrock (based on City sewer plats), and other relevant design information shown. Topographic survey and mapping should be included for water main extension locations to confirm and capture features relevant to the water main extension(s). In general water main extensions are provided over the length of a single City block to connect to an in-place water main on an intersecting avenue or street to houses on that block.
 2. No deviations from the standards established by the Reference Plan Set standard(s) shall be permitted unless otherwise approved by the City. The Consultant shall be responsible for utilizing and modifying the City provided GIS data to meet/provide the stated plan standards.
 3. The design shall include utility coordination in conformance with MnDOT's utility coordination process. A design locate should be performed and City and third-party utilities (fiber, electric, telephone, steam, etc.) should be drawn on the plans based on the utility owner supplied mapping. The preliminary design should include two utility coordination meetings (verification and

design steps) to ensure accuracy and to coordinate minor adjustments and support needs during construction with utility owners. Utility relocations, relocation meetings, and relocation coordination are not anticipated.

4. As outlined in the "Initial Site Visit and Consultation" section, the consultant must scrutinize the City sewer plats, GIS data, and other provided information for the presence of bedrock at each site. The presence of bedrock is likely only to be observed at the water main but such bedrock information for each site shall be included in the plans, including a note indicating the source of the information, presence of rock, the approximate depth of bedrock, and horizontal location (anticipated to be at the water main, typically, unless surficial rock is observed on the site during site visits).

- b. **The City intends to bid two separate projects for construction. As such, two separate plans and specifications will be required for approximately 500 service replacements each (Fairmont 1 and Lincoln 4).**
- c. The specification preparation shall also include appropriate sections for bidding, bonding, agreements, general and special provisions, and other appropriate contract provisions as well. These sections shall be developed in accordance with the City standards, which shall be made available to the consultant.
- d. The drawings shall include all necessary site maps, plans, elevations, sections, details, and notes as needed or necessary to adequately show, explain or describe all features of the project.

3. Cost Estimate

Following the completion of the plans and specifications, a quantity takeoff and a detailed itemized construction cost estimate for each individual phase of the project shall be provided.

4. Project Bidding

Upon completion of plans and specifications, the consultant shall provide all documents and services to provide for bidding and award for construction. The consultant shall answer any questions brought up during bidding and attend a pre-bid conference. This design phase shall be considered complete upon award of the project following bidding. **It is anticipated that the projects may bid on different days. As such, the consultant's cost estimates should include time for multiple bids.**

5. Construction Administration & Inspection

This RFP does not include Construction Administration or Inspection. The City anticipates issuing a separate RFP for these tasks at a later date.

DELIVERABLES

The Consultant shall provide the listed **LSLR Project Deliverables** as part of the design. The Consultant shall provide and maintain a file sharing platform to be utilized throughout the design that allows for the regular upload and download of project files and houses the listed project deliverables. The file sharing platform and deliverables shall be continuously updated as the design proceeds and not less frequently than bi-weekly to match the required progress update schedule.

1. LSLR Project Deliverables:

- a. Project Meeting Agenda & Minutes (Bi-Weekly)
 - i. Shall include a rolling agenda / issues log tracking design issues / needs.
 - ii. Meeting Agenda shall include a Progress Update Summary per item d.
- b. Utility Coordination Agenda, Minutes, & Documentation
- c. Detailed & Continuously Updated Project Design Schedule (Bi-Weekly)
 - i. Provide in Critical Path Format organized by Task, Sub-Task, and Milestone Dates and shall include a moving status bar with status / progress update as a percentage of the overall design completion by Task / Sub-Task.
- d. Progress Updates (Bi-Weekly)
 - i. Status of Property Owner Notification & Outreach
 1. Outreach attempts, methods used, and responses.
 - ii. Agreement Status
 1. Agreements sent and secured with Property Owner.
 - iii. Status of Building Inspections.
 1. # Scheduled
 2. # Completed
 3. # Confirmed Lead
 4. # Confirmed Non-Lead
 5. # Requiring Potholing or Add'l Investigation
- e. 30% Design Submittal – The purpose of the 30% design will be to validate the Consultant's plan design approach for conformance with the City's stated standards and overall design intent.
 - i. Title Sheet
 - ii. Site Index Map – include Project Overview Map and at least (1) detailed Index Map.
 - iii. Statement of Estimated Quantities – include relevant / anticipated pay items.
 - iv. Lead Service Replacement Site Plan – provide (3) representative plan sheets including at least (1) partial private LSLR, (1) partial public LSLR, and (1) full LSLR replacement. Sheets should include photos, tabular data, annotation, and plan layout conforming to the required plan standards.

- v. Water Main Extension Plan and Profile Sheet – (1) representative water main extension plan and profile sheet. Sheets should include tabular quantity, annotation, and plan layout conforming to the required plan standards.
 - vi. 30% Engineer's Estimate.
- f. 60% & 90% Design Submittals – shall include plans, special provisions, and engineer's estimate.
- g. Timely Project Correspondence
- h. Project Quality Management Plan (QMP)
 - i. Consultant's QMP shall outline and prescribe who, what, when and how quality control and quality assurance activities will be performed on the project to ensure a technically complete, constructible design that minimizes errors and conflicts.
 - ii. Consultant is expected to use Bluebeam Studio session for 30%, 60%, and 90% plan submittals.
- i. Project Design Files & Documentation
 - i. Provide the City with a copy of all Property Owner Coordination & Building Inspection files including, but not limited to, property owner letters, agreements, inspection records, photographs, and other relevant, collected documentation.
 - ii. Property Owner Coordination & Building Inspection files shall be organized by Site / Address and shall include separate sub-folders for letters, agreements, inspection records, photographs, and miscellaneous information.
 - iii. Provide the City with all signed Owner agreements, hard copies and scanned pdf files.
 - iv. Provide the City with a comprehensive list of all owner contact information and preferred construction contact information. This list should include the property address parcel number, owner name, owner phone, owner email address, construction contact name, construction contact phone, and construction contact email address.
 - v. Provide the City with a comprehensive list mailing addresses for multi-unit buildings. This list should include the property address, parcel number, number of units and mailing address of each unit including unit numbers/letter.
 - vi. Provide the City with a copy of all project design files including, but not limited to, drawing / GIS data files and information sets, design computations, quantity calculations, and special provisions.

PROJECT COMPLETION DATES

Date	Milestone / Deadline
May 23, 2024	RFP Issued
June 11, 2024	Proposals Due
June 24, 2024	Council Approval to Award Contract(s)
August 9, 2024	30% Plans
September 27, 2024	60% Plans and Specifications Complete
December 23, 2025	100% Plans and Specifications Complete
December 26, 2025	Plans submitted to MDH
January 17, 2025	MDH Plan Certification
January 23, 2025	Advertise for bids
April 2025	Start Construction
November 2025	Construction Completion

This schedule is subject to change if interviews are held prior to selection of consultant(s).

QUALIFICATION PROPOSAL CONTENTS

To be considered, hard copies of proposals must arrive at the City on or before the time and date specified in the RFP. The proposal shall be submitted in the following format broken into the six (6) sections identified below. Proposals not following the specified format will not be reviewed. No additional sections or appendices are allowed. The proposal shall be limited to 12 pages (8.5" x 11" page size, portrait or landscape orientation) plus a cover letter. Proposals that exceed this limit will not be reviewed. The use of an 11" x 17" page size (landscape orientation) for the project work plan and/or project schedule are permitted and each use of an 11" x 17" page shall count as a single page against the specified page limit. Dividers and covers are not included in the page limitation.

The proposal format shall be as follows:

1. **Goals and Objectives**

A restatement of the goals and objectives and the project tasks to demonstrate the responder's view and understanding of the project and their plan to meet the project schedule.

2. **Experience**

An outline of the responder's background and experience with similar projects. Prior work with the City of Duluth including knowledge of City standards, specifications, and best practices are considered essential for this project. Consultants should include lead service replacement projects and projects where there is extensive interaction with residents. Project descriptions shall include a list key staff and their role.

3. **Personnel**

Identify personnel to conduct the project and detail their work experience. Identify how personnel proposed for this project were involved with the projects listed as experience.

Identify a professional engineer registered in the State of Minnesota who will oversee the overall project. No change in personnel assigned to the project will be permitted without approval of the City.

4. Work Plan

Include a detailed work plan identifying the work tasks to be accomplished and the budget hours to be expended on each task and subtask for the design. The work plan shall be in spreadsheet format and shall list each task and the number of hours for each staff person on that task.

The work plan shall also identify the deliverables at key milestones in the project as well as any other services to be provided by the City. Do NOT include any costs in the work plan.

The work plan shall be for 500 service replacements (per project).

5. Work Schedule

An anticipated work schedule shall also be provided. The work schedule shall identify all key milestone dates. **Meeting the specified schedule in this RFP is of the essence to the City and critical to the success of the project and the City's program delivery. The Consultant's proposal should clearly communicate and reflect the Consultant's commitment and ability to provide the necessary staff and resources to meet the project schedule.**

6. References

References may be requested prior to final consultant selection and do not need to be included.

COST PROPOSAL CONTENTS

Provide, in separate **SEALED** envelope, one copy of the cost proposal, clearly marked on the outside "Cost Proposal" along with the responder's official business name and address. Terms of the proposal as stated must be valid for the project length of time.

Each consultant may propose one or both of the lead service projects if they feel they can complete the design(s) per the required schedule. Cost estimates may be in the same separately-sealed envelope, but each proposal must clearly identify how many and which project(s) the proposal is for.

For each proposal, the consultant must include a not-to-exceed total project cost, as well as subtotals for design services and bidding and any sub consultant fees. The cost proposal shall include all of the following:

- A cover/transmittal letter
- A breakdown of the hours by task for each employee. This shall be in the same format as the work plan in the Qualifications proposal with the addition of costs.
- Hourly rates for each specific employee proposed (not general rates by category).
- Identification of anticipated direct expenses and rates for miscellaneous charges such as mileage and copies.

- Identification of any assumption made while developing this cost proposal.
- Identification of any cost information related to additional services or tasks. Include this in the cost proposal, but identify it as additional costs and do not make it part of the total project cost.
- The Consultant must have the cost proposal/cover letter/transmittal signed in ink by a member of the firm authorized to bind the company into a contract, and the attached Appendix A completed.
- The consultant must not include any cost information within the body of the RFP qualification proposal response.

SELECTION

The proposals will be reviewed by City Staff. The intent of the selection process is to review proposals and make an award based upon qualifications as described herein. A 100-point scale will be used to create the final evaluation recommendations. The factors and weighting on which proposals will be judged are:

	Item	Percent
1	Goals and Objectives	15%
2	Experience	15%
3	Personnel	20%
4	Work Plan and Schedule	30%
5	Project costs/fees	20%

Proposals will be evaluated on a best value basis with 80% qualifications and 20% cost consideration. The review committee will not open the cost proposal until after the qualification points have been awarded. The City reserves the right to interview Consultants (in-person or virtually) prior to making a final decision.

SUBMITTAL DATE

Submit original, three (3) copies, and a flashdrive containing a completed copy of the proposal and separate cost estimate, in an envelope marked, 24-99513 RFP Engineering Services for Lead Water Service Replacements (Fairmont 1 and Lincoln 4) by 4:00 PM central time, June 11, 2024 to:

Purchasing
City Hall Room 120
411 West 1st Street
Duluth, MN 55802

CONTACT

All questions concerning the project shall be directed to:

Brad Scott, Senior Engineer
City of Duluth - Engineering Division
411 W. 1st Street, Room 230 City Hall
Duluth, Minnesota 55802-1191
bscott@duluthmn.gov
(218) 730-5025

LIMITATIONS

This Request for Proposal does not commit the City of Duluth to award a contract or pay costs incurred in the preparation of the proposal, or to procure a contract for services or supplies.

The Proposal shall not in any way include any restrictions on the City of Duluth. The Consultant shall NOT provide proposed contract language.

The City of Duluth specifically reserves the right to accept or reject any or all proposals, to negotiate with any qualified source, to cancel in part or in its entirety the Request for Proposal, to waive any requirements, to investigate the qualifications of any proposal, to obtain new proposals, or proceed to have the service provided in any way as necessary to serve the best interests of the City of Duluth. The City is not liable for any costs the Consultant incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of the contract.

The selected consultant must sign the City of Duluth standard Professional Engineering Services Agreement, a sample of which is available at <https://duluthmn.gov/purchasing/forms/>. Any questions concerning this agreement should be asked PRIOR to proposal submittal. These questions should be directed to Eric Shaffer in the City Engineering Office.

All materials submitted in response to this RFP will become property of the City and will become public record after the evaluation process is completed and an award decision made.

Prior to entering into an agreement with the city, the consultant shall furnish proof that it has all legal requirements for transacting business in the State of Minnesota.

APPENDICES

Appendix A – City of Duluth’s Lead Water Service Replacement Design Guidelines


Appendix B – Proposal Cover Sheet

Appendix C – Federal Supplementary Provisions

Appendix D – Byrd Anti-Lobbying Certificate: The completed certificate must be submitted with your proposal.

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Lead Water Service Replacement Design Guidelines

1) Owner Outreach Coordination

- a) For all properties on a project list with the private water service material listed as lead, suspected lead or unknown, the property owner should be contacted to arrange a building inspection to collect the information necessary to prepare a site replacement plan and to secure a signed Agreement with the property owner(s) to complete the work.
 - i) Attempts to contact the owner shall, at a minimum, include:
 - (1) The Consultant shall maintain a record of homeowner outreach attempts including at least (2) mailed letters to the property owner and resident.
 - (2) If no response is received to the mailed letters, (2) physical outreach visits to the house must occur one of which must be after 5 pm on a weekday and one on a weekend between 10 am and 5 pm. The Consultant outreach record shall include identifying information (address, homeowner, resident/renter (as applicable), etc.) and the dates and outcomes of each outreach attempt. Physical outreach methods shall also include leaving door hangers and letters at the residence with project team contact information.
- b) For properties on a project list with a lead public service and a confirmed 'Not Lead' private service, basement inspections are not necessary. The private service has already been determined to not be lead and will be inspected again with a camera during replacement of the public service.
- c) Throughout the design phase keep track of non-responsive owner/residents and discuss with the City prior to removing individual addresses for the replacement plan.


2) Building Inspection

- a) Building inspection includes collecting information at the individual address (water service replacement site) and entering the building (usually to access the basement) to collect the following information:
 - i) Identification and/or confirmation of private water service material.
 - ii) Investigate and document the field conditions between the water service connection to the main in the street to entrance point to the building. Note and document (e.g. size, type, composition) any yard features (e.g. landscaping, trees, walls, decks, walks, stairs, etc.) that may be impacted by the work by either directional drilling or open trench excavation along the alignment of the existing / proposed water service.
 - iii) Locate and document the existing curb stop.
 - iv) Confirm and document the private water service size and material.



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- v) Confirm and document the location of water service entrance and water meter within the building.
- vi) Confirm and document the location of the sanitary sewer service.
- vii) Confirm and document the location of sanitary service cleanout and material type.
- viii) Search for and document the presence of an electrical ground rod outside the building and/or second ground wire at the electric panel leaving the foundation to the outside.
- ix) Document the number of residential units and mailing addresses for each unit.
- x) Document the presence of any accessory dwelling units that are served by the primary building. Perform an entire inspection and lead water service replacement design for any accessory dwelling units encountered.
- xi) Investigate and document any construction (demolition / restoration) that will be required within the basement to replace the water service.
- xii) Collect photo documentation of the existing yard and basement conditions and all inspection items noted above.
- xiii) Review available City sewer plat books for the presence of bedrock.
- xiv) Any other information relevant to the project design.

3) Water Service Material Inventory and Verification

- a) All available water service material records have been reviewed for all addresses within each LSLR project area. Addresses confirmed or suspected to have lead water services are included in the design phase for a project area.
- b) Some included addresses have limited or conflicting material information.
- c) Visual observation of a non-lead material entering a building does not prove the service is entirely non-lead.
- d) The Consultant shall understand and interpret water service materials observed in the field along with information supplied by the City and prescribe further verification or replacement as necessary.


4) Galvanized Iron Pipes

- a) Galvanized iron water service pipes that have been downstream of lead pipes are considered "Galvanized Requiring Replacement" (GRR) and should be treated as lead water services for the purposes of LSLR projects.
- b) Galvanized iron water service pipes that CANNOT be proven to NEVER have been downstream of lead services should also be considered GRR.



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5) Commercial and Industrial Properties

- a) Lead replacements in concentrated commercial and industrial areas should be deferred until future projects.
- b) Commercial properties with residential apartments should be included and have lead services replaced.
- c) Non-residential properties dispersed among residential neighborhoods may be included and have lead services replaced.

6) Vacant Lots

- a) Lead service lines to vacant lots can be cut off during LSLR projects. Discuss with the City instances of lead services to vacant lots within the project area and include cutting off and capping such services in the LSLR plan.

7) Abandoned, Condemned or Uninhabited Residences

- a) Make an attempt to contact property owner to assess their intentions for the property:
 - i) If the owner intends to rehabilitate the residence, replace all parts of the service that are lead.
 - ii) If the owner intends to demolish the residence, replace only the public side service if lead.
 - iii) If the owner is unreachable, replace only the public side service if lead

8) Services Shared Between Three or More Properties or Private Service Lines Installed Parallel to the Right of Way

- a) Design a water main extension with individual services.


9) Services Shared Between Two Properties

- a) If the shared public service is a material other than lead the service will remain as-is and only private services replaced if lead.
- b) If the shared public service is lead and the existing curbstops are within 5' of the property line between the two properties, a 1" HDPE shared public service can be reconnected to the existing corporation stop. Install two curbstops and install the private services so they do not cross adjoining private property.
- c) If the shared private service is lead and the existing curbstops are not within 5' of the property line between the two properties, one property should be connected to the existing corporation stop. Install a new corporation stop and separate service in front of the second property. This work may require a second excavation at the main.



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10) Curbstop Location

- a) The standard location for new curbstops in the City of Duluth is behind the sidewalk (if present) and approximately 2' in front of the private property line.
- b) Use judgement for planning the location of proposed curb stops.
- c) There are several acceptable reasons to vary from the standard curbstop location including:
 - i) The public water service has already been replaced. Connect to the existing curbstop where it is.
 - ii) The existing curb stop location is in front of the sidewalk.
 - iii) To reduce surface impact and restoration cost.
 - iv) To avoid concrete steps, retaining walls, mature trees, other utilities, etc.
- d) There are times when excavation to the standard curb stop location may still be necessary including:
 - i) To verify the water service material.
 - ii) To insulate.
 - iii) The existing curb is in the standard location.
- e) If excavation at the current curbstop location is necessary, the existing curbstop shall be removed.
- f) If excavation at the current curbstop location is not necessary, the existing curbstop shall be abandoned by cutting off the existing stand pipe(s) a minimum of 2' below grade.

11) Tapping

- a) Hot tapping the existing main for main extensions and additional services will be by City of Duluth utility crews. Trenches must be prepared by the contractor according to standard detail W-11.


12) Pipe Cover Depth and Insulation

- a) All water mains shall be designed to have 7.5' of cover. All water services shall be designed to have 7.0' of cover.
- b) In areas cleared of snow (streets, driveways and sidewalks) if 7.0' of cover cannot be achieved, insulation must be installed at an elevation of 6-12" above the service pipe.
- c) In areas that are not typically cleared of snow (yards), if 6.0' of cover cannot be achieved, insulation must be installed at an elevation of 6-12" about the service pipe.
- d) 6" of Granular backfill will be required for leveling under insulation and will be considered incidental to the insulation item.



Engineering

Room 240
411 West First Street
Duluth, Minnesota 55802

 218-730-5200

13) Connection to Existing Indoor Plumbing

- a) Moving the water meter up to 5' horizontally and any distance vertically from the existing location to accommodate the location of the new 1" HDPE service line will be incidental to the "Connect to existing indoor plumbing" bid item.
- b) Moving the water meter more than 5' horizontally from the existing location, if approved by the engineer in the field, will be paid for under additional bid items.
- c) If vinyl floor tiles are present that could contain asbestos, the homeowner will be responsible for having the floor tiles removed in the area of work. This should be discussed with the owner at the time of basement survey.

14) Electrical Service Grounding

- a) The Consultant will be responsible to inspect a building's existing electrical grounding and, if necessary, prescribe the installation of supplemental grounding.
- b) It is expected that all buildings will have the electrical service grounded to the metallic water service. All buildings with a planned private water service replacement shall be inspected for the presence of supplemental grounding:
 - i) Inspect the property for evidence of an existing supplemental grounding electrode which could include:
 - (1) A visible ground rod(s) outside the building
 - (2) A visible grounding wire outside the building that disappears underground. This may be a bare copper wire, a wire inside a protective conduit or a wire hidden behind building features.
 - (3) Additional grounding wire found inside the building that leave the building envelope indicating the location to search for (1) or (2) above.
- c) Buildings with no evidence of existing supplemental grounding shall have installation of grounding electrodes included in the plan.

15) Backfill

- a) Utility trench backfill should be suitable onsite material both within and outside of the roadway.
- b) Where onsite material is not suitable, imported materials should be used. Imported materials shall be:
 - i) Granular backfill within the roadway
 - ii) Common borrow outside of the roadway
- c) Estimated quantities for imported backfill materials should be included in all projects.
- d) Project areas where bedrock is present are assume to have blast rock in the onsite material and may need larger quantities of imported backfill.

**APPENDIX B - PROPOSAL COVER SHEET
CITY OF DULUTH
RFP# 24-99513
RFP Engineering Services for Lead Water Service Replacements**

Bidder Information:	
Bidder Name	
Mailing Address	
Contact Person	
Contact Person's Phone Number	
Contact Person's E-Mail Address	
Federal ID Number	
Authorized Signature	
Name & Title of Authorized Signer	
Email of Authorized Signer	

APPENDIX C – FEDERAL SUPPLEMENTARY PROVISIONS
CITY OF DULUTH
RFP# 24-99513
RFP Engineering Services for Lead Water Service Replacements

City of Duluth
Supplementary Provisions – State & Federal Funding
24-99513 RFP for Engineering Services for Lead Water Service Replacements

1. Disbursements

- a. No money under this Contract shall be disbursed by the City to any Contractor unless the Contractor is in compliance with the Federal Agency requirements with regard to accounting and fiscal matters to the extent they are applicable.
- b. Unearned payments under this Contract may be suspended or terminated upon the Contractor's refusal to accept any additional conditions that may be imposed by the Federal Agency at any time; or if the grant, if applicable, to the City under which this Contract is made is suspended or terminated.

2. Subcontracting Requirements

- a. The Contractor shall include in any subcontract the clauses set forth in these City of Duluth Supplementary Provisions in their entirety and shall also include a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.
- b. The Contractor shall not subcontract any part of the work covered by this Contract or permit subcontracted work to be further subcontracted without the City's prior written approval of the subcontractors. The City will not approve any subcontractor for work covered by this Contract who is at the time ineligible under the provisions of any applicable regulations issued by a Federal Agency or the Secretary of Labor, United States Department of Labor, to receive an award of such subcontract.

3. Breach of Contract.

The City may, subject to the Force Majeure provisions below and in addition to its other rights under the Contract, declare the Contractor in breach of the Contract by written notice thereof to the Contractor, and terminate the Contract in whole or in part, in accordance with Section 4, Termination, for reasons including but not limited to any of the following:

- a. Failure to begin the Work within the time specified in the Contract;
- b. Failure to perform the Work with sufficient labor, equipment, or material to insure the completion of the specified Work in accordance with the Contract terms;
- c. Unsatisfactory performance of the Work;
- d. Failure or refusal to remove material, or remove and replace any Work rejected as defective or unsatisfactory;
- e. Discontinuance of the Work without approval;
- f. Failure to resume the Work, which has been discontinued, within a reasonable time after notice to do so;
- g. Insolvency or bankruptcy;

- h. Failure to protect, to repair, or to make good any damage or injury to property;
- i. Breach of any provision of the Contract;
- j. Misrepresentations made in the Contractor's bid/proposal; or
- k. Failure to comply with applicable industry standards, customs, and practice.

4. Termination

If the Contractor is in breach of the Contract, the City, by written notice to the Contractor, may terminate the Contractor's right to proceed with the Work. Upon such termination, the City may take over the Work and prosecute the same to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any additional cost incurred by the City in its completion of the Work and they shall also be liable to the City for liquidated damages for any delay in the completion of the Work as provided below. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the Work such materials, tools, equipment, and plant as may be on the site of the Work and necessary therefore.

City shall have the right to terminate this contract immediately without other cause in the event that all or a portion of the funds that the City intends to use to fund its obligations under the contract have their source with the State or Federal government or any agency thereof and said source reduces or eliminates their obligation to provide some or all of the funds previously committed by it to fund City's payment obligations under the Contract. The City agrees that termination hereunder will not relieve the City of its obligation to pay Contractor for Work satisfactorily performed and reasonable costs incurred prior to the effective date.

Notwithstanding anything herein to the contrary, the City may terminate this Contract at any time upon written notice given by the City (for any reason, including the convenience of the City) to the Contractor at least thirty (30) days prior to the effective date of the termination of this Contract. The City agrees that termination hereunder will not relieve the City of its obligation to pay Contractor for Work satisfactorily performed and reasonable costs incurred prior to the effective date of the termination provided that Contractor has not committed a breach of this Contract. Nothing contained in this section shall prevent either party from pursuing or collecting any damages to which it may be entitled by law.

5. Force Majeure.

The right of the Contractor to proceed shall not be terminated nor shall the Contractor be charged with liquidated damages for any delays in the completion of the Work due to any acts of the Government, including controls or restrictions upon or requisitioning of materials, equipment, tools, or labor by reason of war, National Defense, or any other national emergency; any acts of the City; causes not reasonably foreseeable by the parties to this Contract at the time of the execution of the Contract which are beyond the control and without the fault or negligence of the Contractor, including, but not restricted to, acts of God or of the public enemy, acts of another Contractor in their performance of some other contract with the City, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and weather of unusual severity such as hurricanes, tornadoes, cyclones, and other extreme weather conditions; nor to any delay of any Subcontractor occasioned by any of the causes specified above. The Contractor shall promptly notify the City in writing within ten (10) days of the delay. Upon receipt of such notification, the City shall ascertain the facts and the cause of the delay. If, upon the basis of facts and the terms of the Contract, the delay is properly excusable, the City shall extend the time for completing the Work for a period of time commensurate with the period of excusable delay.

6. Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms.

Per 2 CFR 200.321, prime contractor must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms (collectively referred to as socioeconomic firms) are used when possible. The affirmative steps must include:

- a. Placing qualified socioeconomic firms on solicitation lists;
- b. Assuring that socioeconomic firms are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by socioeconomic firms;
- d. Establishing delivery schedules, where the requirements permit, which encourage participation by socioeconomic firms; and
- e. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

7. Rights to Inventions Made Under a Contract or Agreement.

For any contracts involving the "substitution of parties, assignment or performance of experimental, developmental, or research work", Contractor shall comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

8. Clean Air Act and Federal Water Pollution Control Act

Contractor shall comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA). Contractor agrees to include this provision in any subcontract exceeding \$150,000 that is financed in whole or in part with Federal funds.

9. Energy Standards.

Contractor shall comply with all mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201).

10. Suspension and Debarment.

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945. The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into. A contract award must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM.gov), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 19898 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

11. Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended) (This clause is required in all federal contracts. In addition, the certification form is required for all federal contracts over \$100,000)

Contractors must certify that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in

connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352.

12. Telecommunications and Video Surveillance Services or Equipment

In the performance of this contract, Contractor/Supplier shall comply with Public Law 115-232, Section 889, which prohibits the procurement or use of covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, use of video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities) is prohibited.

In addition, telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country is prohibited.

**APPENDIX D – BYRD ANTI-LOBBYING CERTIFICATE
CITY OF DULUTH
RFP# 24-99513
RFP Engineering Services for Lead Water Service Replacements**

The completed certificate must be submitted with your proposal.

APPENDIX D

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned, [Company] _____ certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

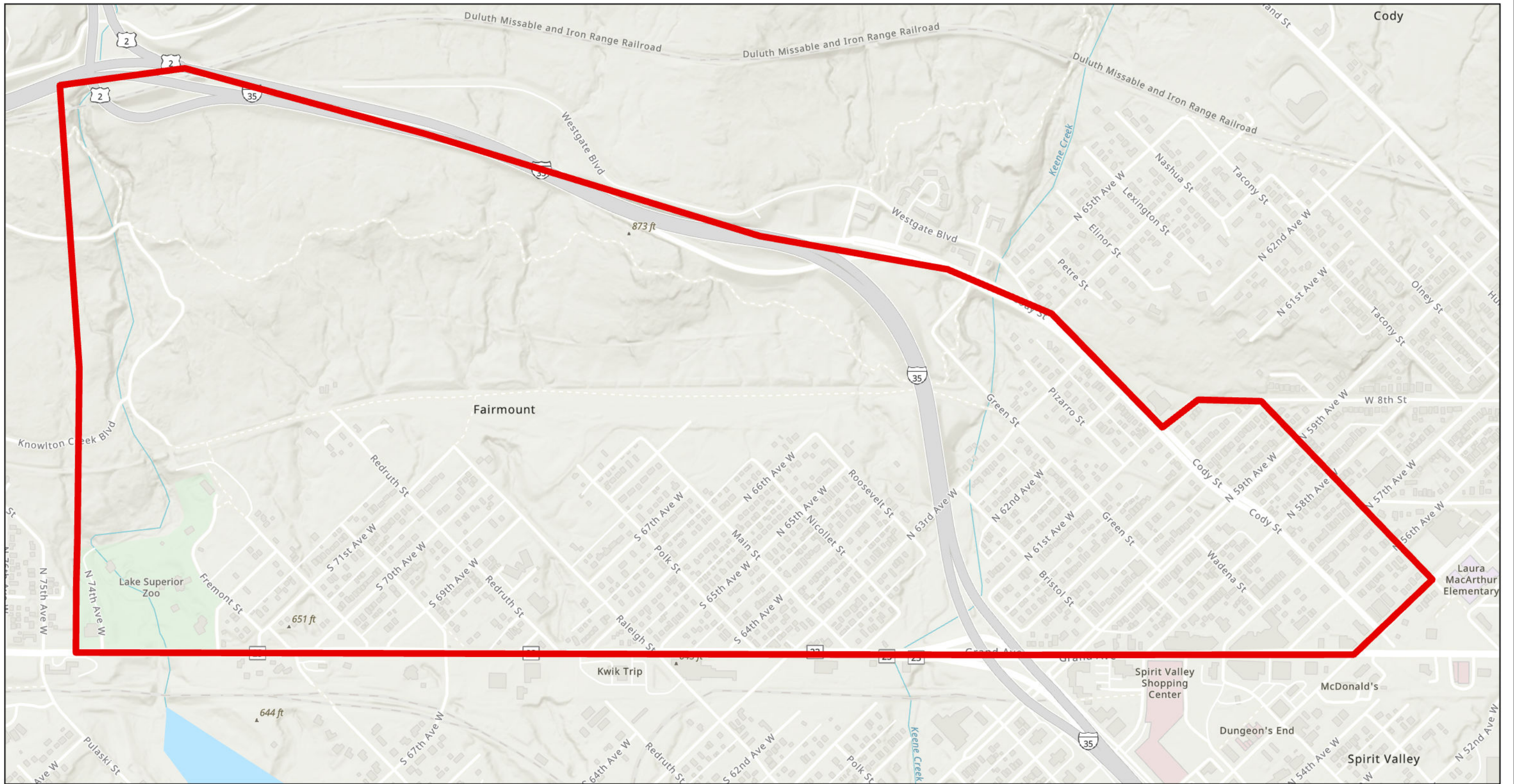
This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, [Company] _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

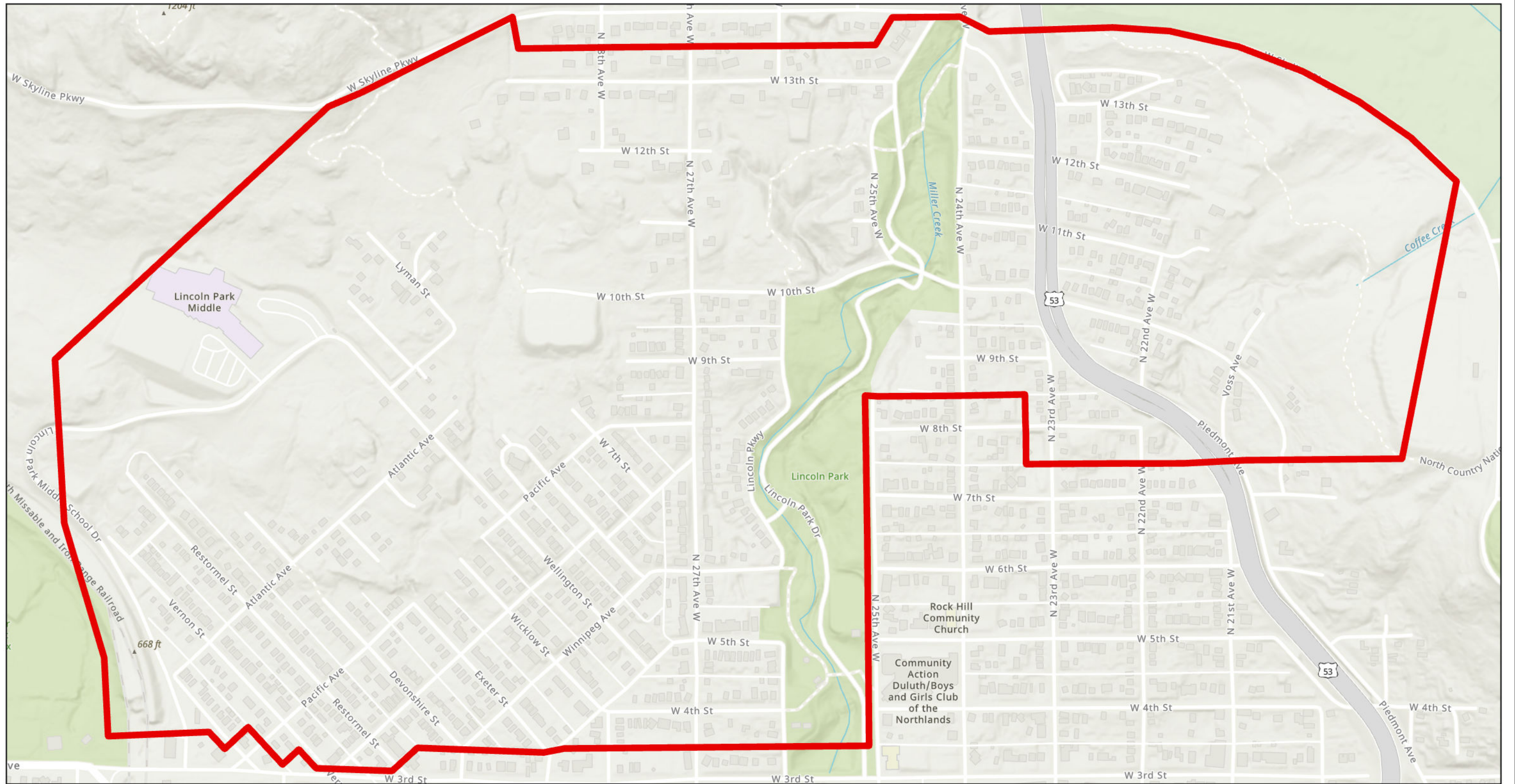


CITY OF DULUTH
ENGINEERING DIVISION
411 W 1ST ST RM 240
DULUTH, MN 5580

LSLR FAIRMONT 1 PROJECT AREA OVERVIEW

0 345 690 1,380 US Feet







































CITY OF DULUTH
ENGINEERING DIVISION
411 W 1ST ST RM 240
DULUTH, MN 5580

LSLR LINCOLN PARK 4 PROJECT AREA OVERVIEW






















0 255 510 1,020 US Feet



WATER MAIN EXTENSION SYMBOLS

-  BUILDING
-  CONCRETE SURFACE
-  5 FOOT CONTOUR
-  1 FOOT CONTOUR
-  CURB & GUTTER
-  GRAVEL SURFACE
-  EASEMENT LINE
-  FENCE LINE
-  LOT LINE
-  VACATED PLAT LINE
-  ROAD RIGHT-OF-WAY LINE
-  OVERHEAD ELECTRIC
-  BURIED ELECTRIC
-  BURIED GAS
-  BURIED SANITARY SEWER
-  BURIED STORM
-  BURIED TELEPHONE
-  BURIED WATER / WATER SERVICE
-  EXISTING STORM MANHOLE
-  EXISTING SANITARY MANHOLE
-  EXISTING CATCH BASIN
-  WATER SHUTOFF
-  WATER VALVE
-  HYDRANT
-  GAS VALVE
-  GAS METER
-  CLEAN OUT
-  CONSTRUCTION LIMITS
-  SODDING TYPE LAWN
-  BITUMINOUS PAVEMENT
-  CONCRETE WALK
-  B624 CONCRETE CURB & GUTTER
-  2" HDPE IPS DR 9 WATER MAIN PIPE
-  1" HDPE SDR 9 SERVICE PIPE (PRIVATE OR PUBLIC)

LSLR SITE REPLACEMENT SYMBOLS

-  EXISTING WATER MAIN
-  EXISTING WATER SERVICE
-  EXISTING SERVICE TO BE ABANDONED
-  EXISTING GAS MAIN
-  EXISTING GAS SERVICE
-  EXISTING SANITARY MAIN
-  EXISTING SANITARY SERVICE
-  EXISTING STORM
-  EXISTING BURIED ELECTRIC
-  EXISTING BURIED TELE/FIBER OPTIC
-  EXISTING CURB STOP
-  EXISTING WATER VALVE
-  EXISTING GAS SERVICE CONNECTION
-  EXISTING GAS METER
-  EXISTING SANITARY MANHOLE
-  EXISTING STORM CATCH BASIN
-  EXISTING STORM MANHOLE
-  EXISTING LIGHT POLE
-  EXISTING ELEC MANHOLE
-  ROUTE INTERIOR PLUMBING
-  1" HDPE SDR 9 SERVICE PIPE

CITY OF DULUTH

DEPARTMENT OF PUBLIC WORKS AND UTILITIES

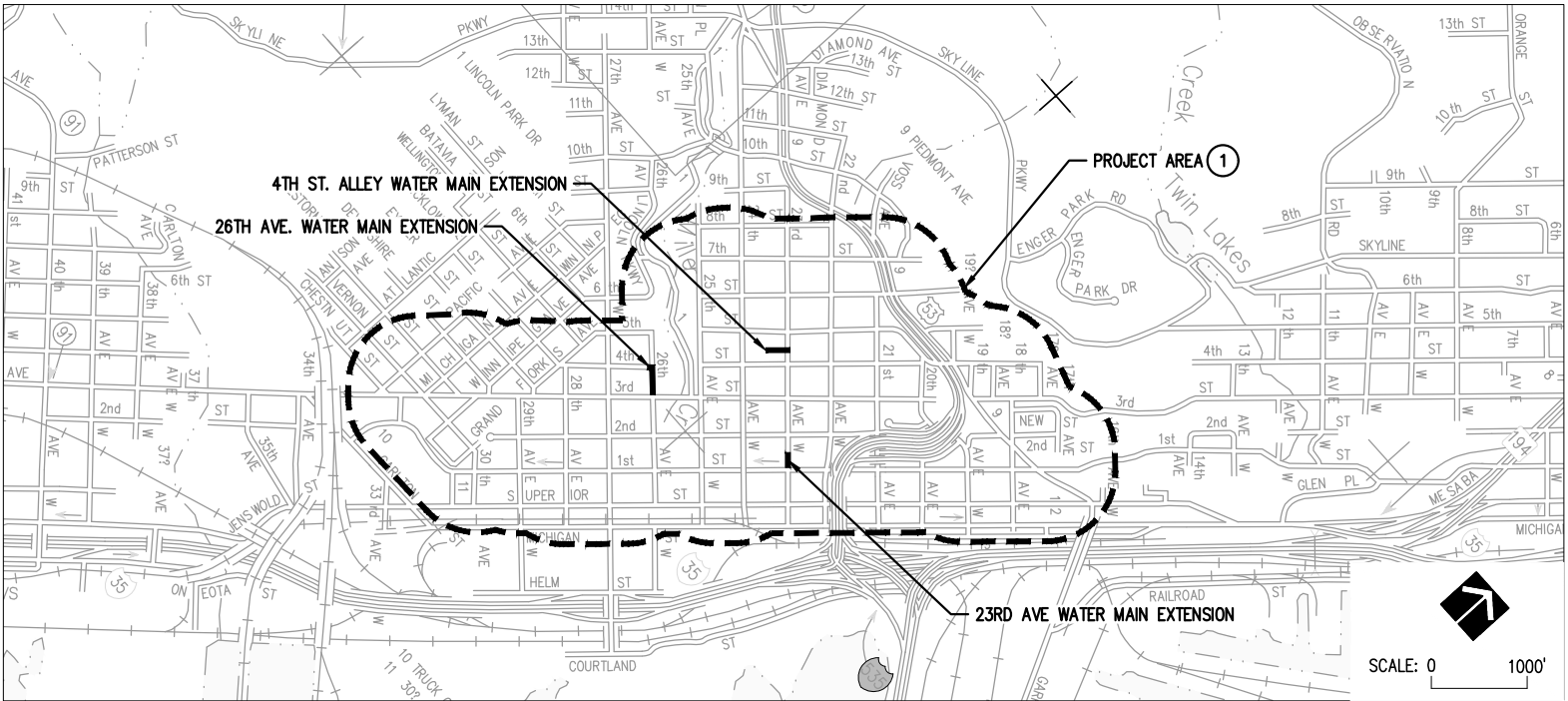
ENGINEERING DIVISION

CONSTRUCTION PLAN FOR LEAD SERVICE LINE REPLACEMENT (LSLR) - LINCOLN PARK 3

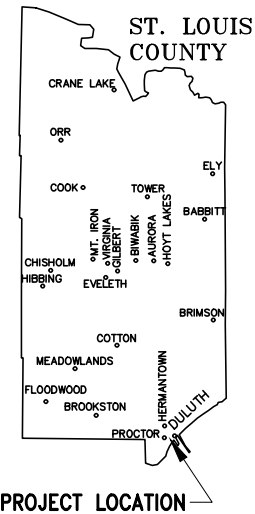
LEAD WATER SERVICE LINE REPLACEMENT, GRADING, BASE, ROADWAY PAVEMENT,
SIDEWALK, CURB & GUTTER, AND WATER MAIN EXTENSIONS

LOCATION

LINCOLN PARK NEIGHBORHOOD



WARNING
LOCATION OF UNDERGROUND UTILITIES
TO BE VERIFIED BY CONTRACTOR.
CALL BEFORE DIGGING.
GOPHER STATE ONE CALL
811 OR 1-800-252-1166
REQUIRED BY LAW



KEY NOTE:

1 REFER TO SHEET INDEX MAP FOR INDIVIDUAL LSLR SITE LOCATIONS.

UTILITY NOTE:

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".



21 W. Superior St., Ste. 500 | Duluth, MN 55802 | 218.727.8446

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
"STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL
SPECIFICATIONS" DATED SEPTEMBER 2022, SHALL GOVERN.

THE CITY OF DULUTH PUBLIC WORKS AND UTILITIES DEPARTMENT ENGINEERING DIVISION
2019 EDITION STANDARD CONSTRUCTION SPECIFICATION SHALL APPLY.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MNTCD, INCLUDING
THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET AND INDEX MAP
I1-I15	SITE INDEX PLANS
Q1	STATEMENT OF ESTIMATED QUANTITIES
N1	NOTES
C1-C21	CHARTS
D1-D14	CONSTRUCTION DETAILS
E1-E2	EROSION CONTROL & SWPPP
S1-S222	SERVICE REPLACEMENT PLANS
W1-W5	WATER MAIN EXTENSION PLAN AND PROFILE SHEETS

- THIS PLAN CONTAINS 282 SHEETS -

DESIGNERS: (LHB) A. BESSE

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.

PRINT NAME: ADAM BESSE

SIGNATURE: 

DocuSigned by: 05/03/2024 LIC. #: 52597

CITY APPROVAL:  5/2/2024

DocuSigned by: 2CE89AC02DB8436 DATE: 5/2/2024

APPROVED: DULUTH CITY ENGINEER

DocuSigned by:  DATE: 5/2/2024

APPROVED: DULUTH CHIEF ENGINEER OF TRANSPORTATION

DocuSigned by:  DATE: 5/2/2024

APPROVED: DULUTH CHIEF ENGINEER OF UTILITIES

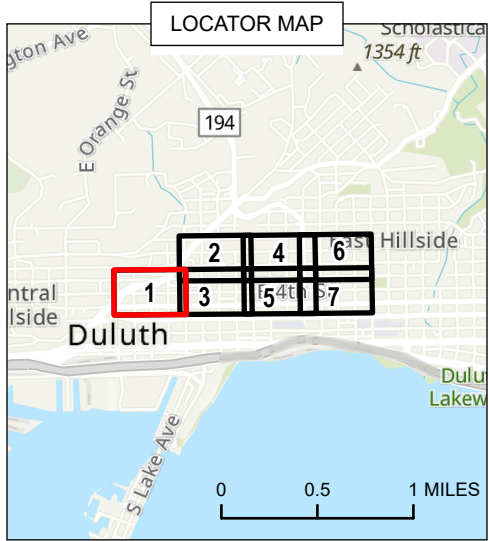
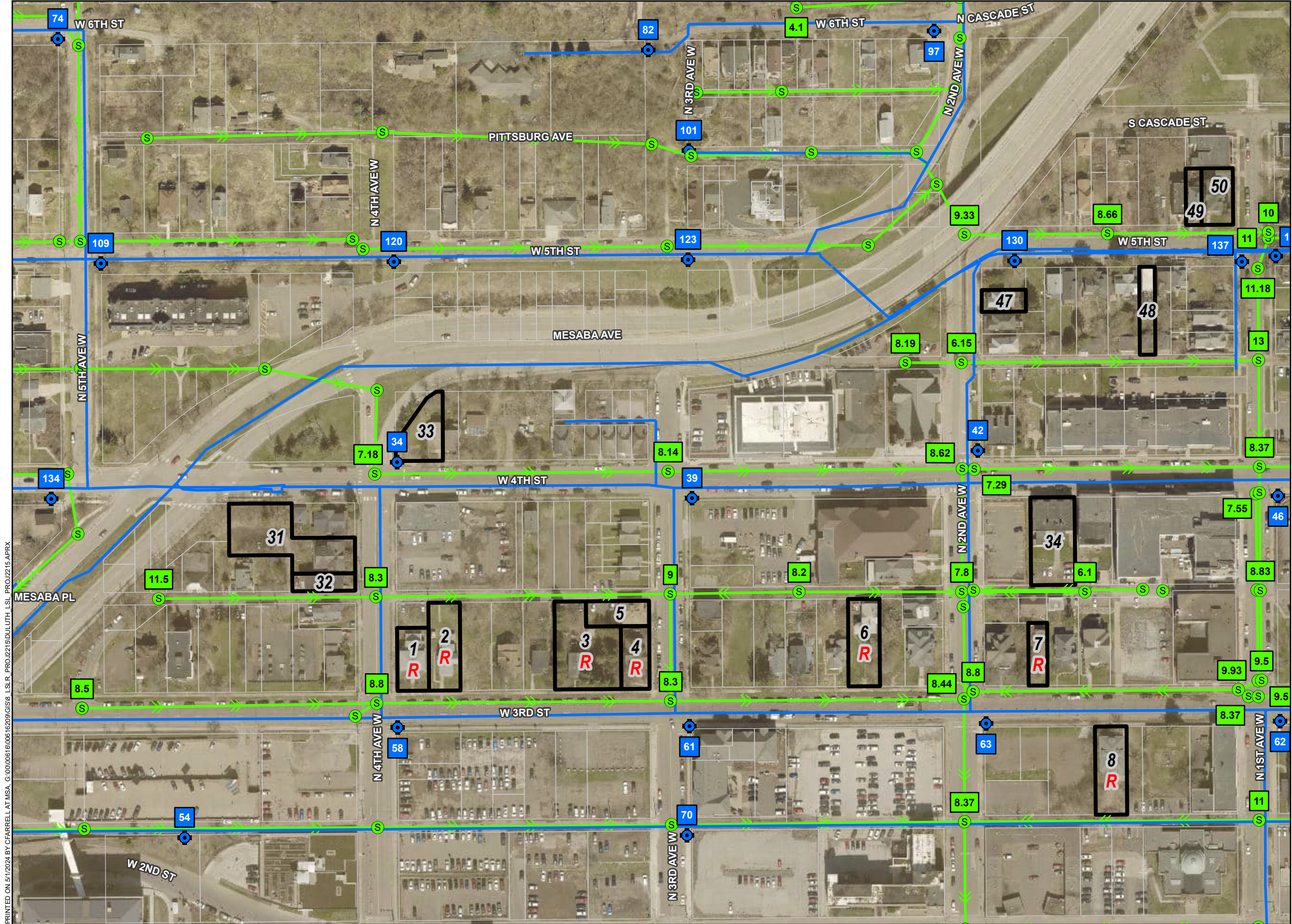
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PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

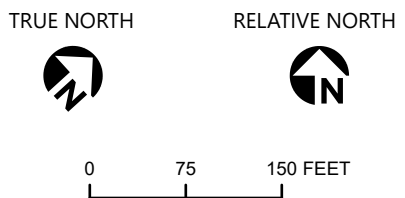
CITY OF DULUTH PROJECT: 2214

MPFA PROJECT NO. 1690011-19

SHEET 1 OF 282 SHEETS



- PROJECT SITES
- SANITARY GRAVITY MAIN
- SANITARY MANHOLE
- WATER GRAVITY MAIN
- WATER HYDRANT
- 8.06 STATIC PRESSURE AT HYDRANT (PSI)
- 7.55 SANITARY MANHOLE DEPTH (FT)
- R INDICATES SHALLOW BEDROCK EXPECTED



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NOTES:

1. QUANTITIES ARE AN ESTIMATE. NECESSARY QUANTITIES WILL BE DETERMINED BY FIELD CONDITIONS.
2. INCLUDES SALVAGED OR IMPORTED TOPSOIL.
3. QUANTITY IS AN ESTIMATE. ADDRESSES REQUIRING ELECTRICAL SERVICE GROUND WILL BE SUPPLIED AT THE START OF CONSTRUCTION.
4. UNDISTRIBUTED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER.
5. PROVIDE TEMPORARY WATER FOR ANY SERVICE INSTALLATION THAT CAN NOT BE COMPLETED IN A SINGLE DAY.
6. REFER TO CITY DETAIL W-11 FOR REQUIREMENTS
7. REFER TO CITY DETAIL W-13 FOR REQUIREMENTS.
8. REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS.

STATEMENT OF ESTIMATED QUANTITIES					
NOTES	LINE NUMBER	SPEC NUMBER	DESCRIPTION	UNIT	TOTAL EST. QUANTITY
		2021.501	MOBILIZATION	LUMP SUM	1
		2101.602	TREE REMOVAL	EACH	4
		2104.502	SALVAGE SIGN	EACH	3
		2104.603	REMOVE & REPLACE CONCRETE CURB & GUTTER (P)	LIN FT	1 120
		2104.603	REMOVE & REPLACE INTEGRANT CURB	LIN FT	27
		2104.603	SALVAGE & REINSTALL FENCE (P)	LIN FT	71
		2104.604	REMOVE & REPLACE STREET SECTION, TYPE (B) (P)	SQ YD	1 041
		2104.604	REMOVE & REPLACE STREET SECTION, TYPE (C) (P)	SQ YD	59
		2104.604	REMOVE & REPLACE STREET SECTION, TYPE (D) (P)	SQ YD	14
		2104.604	REMOVE & REPLACE CONCRETE DRIVEWAY	SQ YD	123
		2104.604	REMOVE & REPLACE BITUMINOUS DRIVEWAY	SQ YD	20
		2104.618	REMOVE & REPLACE X" CONCRETE WALK (P)	SQ FT	16 564
1		2104.603	REMOVE & REPLACE CONCRETE RETAINING WALL	LIN FT	20
1		2402.603	SALVAGE & REINSTALL RAILING	LIN FT	75
1		2411.607	REMOVE & REPLACE CONCRETE STEPS	CU YD	103
6		2451.602	POTHOLE WATER SERVICE FOR MATERIAL IDENTIFICATION	EACH	84
		2451.602	PROVIDE EXCAVATION FOR HOT TAP BY CITY EMPLOYEES	EACH	13
		2504.601	2" HDPE TEMPORARY WATER	LUMP SUM	1
		2504.602	ABND WATER SERVICE AT CORP STOP IN SEPARATE EXCAVATION	EACH	7
		2504.602	ABANDON CURB STOP IN SEPARATE EXCAVATION	EACH	12
		2504.602	CONNECT TO EXISTING CORPORATION STOP	EACH	10
		2504.602	CONNECT TO EXISTING CURB STOP	EACH	239
		2504.602	1" CURB STOP & BOX	EACH	14
		2504.602	2" CURB STOP & BOX	EACH	3
		2504.602	BLOWOFF ASSEMBLY	EACH	3
		2504.602	2"x1" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	7
		2504.602	PREPARE FINISHED BASEMENT FOR WATER SERVICE REPLACEMENT	EACH	21
		2504.602	RECONNECT WATER SERVICE	EACH	1
		2504.602	CONNECT TO EXISTING INDOOR PLUMBING	EACH	252
		2504.602	CONNECT TO EXISTING PLUMBING, CRAWLSPACE	EACH	3
		2504.602	ROUTE WATER SERVICE WITHIN STRUCTURE	EACH	3
		2504.603	INDOOR PLUMBING TO RELOCATE WATER METER	LIN FT	14
		2504.603	1" HDPE SDR 9 SERVICE PIPE (PUBLIC) (P)	LIN FT	204
		2504.603	1" HDPE SDR 9 SERVICE PIPE (PRIVATE) (P)	LIN FT	10 257
1, 4, 8		2504.603	1" HDPE SDR 9 SERVICE PIPE, BY PIPE BURSTING SAN. LATERAL	LIN FT	492
		2504.603	2" IPS HDPE DR 9 WATER MAIN PIPE	LIN FT	792
1, 4, 7		2504.604	POLYSTYRENE INSULATION	SQ YD	103
3		2545.602	ELECTRICAL SERVICE GROUND	EACH	252
		2563.601	TRAFFIC CONTROL	LUMP SUM	1
		2564.502	INSTALL SIGN	EACH	3
		2573.601	EROSION CONTROL	LUMP SUM	1
		2575.604	SODDING TYPE LAWN (PUBLIC) (P)	SQ YD	912
1		2575.618	SALVAGE & REINSTALL LANDSCAPE GARDEN	SQ FT	255

(P) DENOTES PLAN QUANTITY

PLOT DATE: 5/2/2024 3:39:53 PM FILE: G:\23Pro\220879\500 Drawings\Civil\220879 03.0 - SEQ.dwg

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

STATEMENT OF ESTIMATED QUANTITIES

SHEET NO. Q1

PLOT DATE: 5/2/2024 3:29:05 PM FILE: G:\23pro\220879\500 Drawings\Civil\220879 04.0 - Construction Notes.dwg

STORMWATER MANAGEMENT AND EROSION CONTROL REQUIREMENTS

- CITY OF DULUTH PROJECT # 2064 IS A WATER SERVICE REPLACEMENT PROJECT USING EXCAVATIONS AND TRENCHLESS METHODS. WHERE UTILITY EXCAVATIONS IS NECESSARY, THE FOLLOWING SHALL APPLY: SURFACE RESTORATION WILL BE IN KIND WITH EXISTING AND WILL NOT ADD TO IMPERVIOUS SURFACES. THE CITY OF DULUTH MS4 GENERAL PERMIT WILL APPLY. THE CONTRACTOR AND THE CITY SHARE JOINT RESPONSIBILITY FOR ENSURING PERMIT CONDITIONS ARE MET.
- XX WATER SERVICE REPLACEMENTS EXCAVATIONS ARE ESTIMATED FOR THIS PROJECT, FOR A TOTAL OF XX,000 SQUARE FEET OF LAND DISTURBANCE. RUNOFF FROM ALL SITES FLOWS TO THE LOCAL STORM SEWER AND EVENTUALLY LAKE SUPERIOR.
- FOR EXCAVATION WORK THE CONTRACTOR SHALL COMPLETE, SUBMIT AND ABIDE BY THE CITY OF DULUTH "EROSION AND SEDIMENT CONTROL APPLICATION AND PERMIT" FORM INCLUDING A SITE SPECIFIC EROSION CONTROL LAYOUT PLAN AND SEQUENCING NARRATIVE. THESE DOCUMENTS SHALL BE SUBMITTED 7 DAYS PRIOR TO BEGINNING EXCAVATION ACTIVITIES.
- THE EXACT NECESSITY, LOCATION AND SEQUENCING OF EROSION CONTROL DEVICES WILL BE DEPENDANT ON THE CONTRACTOR'S CHOSEN EQUIPMENT, CONSTRUCTION PRACTICES, CONSTRUCTION SEQUENCING, AND MATERIALS & EQUIPMENT PLACEMENT DECISIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EROSION AND SEDIMENT CONTROL DEVICES AND PRACTICES ARE APPROPRIATE FOR THE CONTRACTOR'S MEANS AND METHODS FOR CONSTRUCTION.
- CONTRACT BID ITEMS AND SITE SPECIFIC ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR ANTICIPATED EROSION CONTROL DEVICES. EROSION CONTROL DEVICES CONSIDERED NECESSARY BY OR APPROVED BY THE ENGINEER BUT NOT INCLUDED IN THE BID WILL BE PAID FOR BY UNIT PRICES IN SECTION 2573 OF THE CITY OF DULUTH CONSTRUCTION STANDARD.
- CURRENT MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CURRENT CITY OF DULUTH SHALL APPLY.
- THE CONTRACTOR SHALL DESIGNATE AN EROSION CONTROL SUPERVISOR.
- THE EROSION CONTROL SUPERVISOR SHALL PERFORM INSPECTIONS OF EACH EXCAVATION SITE WEEKLY AND AFTER A RAIN EVENT OF 1/2" OR MORE. THE CONTRACTOR SHALL KEEP A WRITTEN RECORD OF INSPECTIONS AND REPORT DEFICIENCIES AND CORRECTIVE ACTIONS TO THE ENGINEER.
- THE CONTRACTOR SHALL REVIEW THE EROSION CONTROL PLAN & SCHEDULE WEEKLY WITH THE ENGINEER AND MAKE ALTERATIONS/ADJUSTMENTS AS NECESSARY.
- THE CONTRACTOR SHALL PHASE/SEQUENCE THE PROJECT TO MINIMIZE EXPOSURE TO EROSION. THE CONTRACTOR SHALL PLACE OR OTHERWISE CONSTRUCT EROSION CONTROL AND SEDIMENT CONTAINMENT DEVICES TO MINIMIZE THE RUNOFF, TRACKING AND SEDIMENT LOSS FROM DISTURBED AREAS OF THE PROJECT SITE.
- DISTURBED SLOPES NOT ACTIVELY WORKED SHALL BE PROTECTED FROM SOIL EROSION WITH TEMPORARY OR PERMANENT COVER WITHIN 3 DAYS OF BEING WORKED. EROSION CONTROL BLANKET AND SOIL STAPLES SHALL BE USED.
- ALL SLOPES AND DITCHES SHALL BE STABILIZED PRIOR TO OPENING NEW CULVERT INTO EXISTING DRAINAGE WAYS.
- IN ANY STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, OR IN RAIN IS EXPECTED IN THE NEXT 24 HOURS SEDIMENT AND EROSION CONTROL DEVICES SHALL BE USED.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE DIRECTED THROUGH EFFECTIVE FILTERING DEVICE(S) IN ACCORDANCE WITH MNDOT STANDARDS. USE OF APPROVED FLOCCULANT MAY BE NECESSARY. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEWATERING PERMITS FROM THE DNR.
- THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT APPRECIABLE SOIL TRACKING ONTO ROADWAYS. APPRECIABLE SOIL, MUD, OR DEBRIS WASHED, TRACKED OR DEPOSITED ONTO PAVED SURFACES SHALL BE REMOVED PRIOR TO THE END OF EACH WORK DAY.
- STABILIZED CONSTRUCTION EXIT(S) SHALL BE REMOVED AND AREA RESTORED AFTER GRADING IS COMPLETE.
- THE CONTRACTOR QC PROGRAM SHALL ENSURE THAT A COMPETENT INDIVIDUAL SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES WEEKLY AND AFTER RAIN EVENT INSPECTIONS – INCLUDE THE CORRECTIVE ACTIONS THAT WERE TAKEN.
- THE CONTRACTOR SHALL MAINTAIN THE CAPABILITY TO IMPLEMENT RAPID STABILIZATION METHOD 4 (MNDOT 2575) AT ALL TIMES.
- THE CONTRACTOR SHALL BE PROACTIVE IN THEIR APPROACH TO MINIMIZING SOIL EROSION AND SEDIMENT TRANSPORT FROM THE SITE. CURRENT TECHNOLOGY FOR WEATHER FORECASTING AND WEATHER RADAR ALLOWS FOR THE CONTRACTOR TO HAVE EROSION CONTROL BMPS INSTALLED AND FUNCTIONING FOR A RAIN EVENT. ALL CONSTRUCTION SITES SHALL BE STABILIZED PRIOR TO A FORECASTED RAIN EVENT DURING NON-WORK TIMES, I.E. WEEK NIGHTS AND WEEKENDS.
- AS SITE CONDITIONS CHANGE, THE WORK PROGRESSES AND WEATHER CONDITIONS VARY, THE CONTRACTOR SHALL BE REACTIVE TO THE CHANGING VARIABLES. THEREFORE BMP INSTALLATION, CLEANING AND RELOCATION SHOULD BE ANTICIPATED IN MOST CONSTRUCTION ACTIVITIES.
- CONSTRUCTION ACTIVITY PERFORMED WITHOUT APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES MAY BE CONSIDERED UNACCEPTABLE WORK AND MAY BE SUBJECT TO NONPAYMENT.

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION

- TO PREVENT STORM WATER CONTAMINATION FROM OCCURRING, THE FOLLOWING BMPS WILL BE IMPLEMENTED:
- ALL AREAS THAT ARE ROUGH GRADED SHALL BE KEPT IN A SMOOTH CONDITION AND TRACKED BY EQUIPMENT WITH TREADS RUNNING ACROSS THE SLOPE. ROUGH GRADED SOIL SHALL BE ALWAYS READY FOR SURFACE APPLICATION OF TEMPORARY OR PERMANENT, DEGRADABLE OR NON-DEGRADABLE BLANKETS, MULCH OR OTHER PROTECTIVE COVERS.
 - A STABILIZED ENTRANCE/EXIT WILL BE CONSTRUCTED TO REDUCE VEHICLE TRACKING OF SEDIMENTS OFF THE PROJECT RIGHT OF WAY.
 - ALL SOLID WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROVED CONTAINMENT METHOD AT THE END OF EACH DAY. ANY ALTERNATIVE TO A METAL DUMPSTER MUST BE SUBMITTED IN WRITING FOR APPROVAL BY THE PROJECT ENGINEER. ALL TRASH AND CONSTRUCTION DEBRIS COLLECTED FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AD NECESSARY TO FUNCTION AS INTENDED FOR DEBRIS COLLECTION. NO WASTE MATERIALS WILL BE BURIED ON-SITE. THE CONTRACTOR'S EROSION CONTROL SUPERVISOR WILL INSTRUCT ALL PERSONNEL REGARDING THE CORRECT PROCEDURE FOR DISPOSAL.
 - RECYCLABLE MATERIALS MUST BE SEPARATED ON-SITE AND SEGREGATED IN DESIGNATED CONTAINERS
 - A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS AT A RATE NECESSARY TO MAINTAIN DESIGNATED FUNCTION.
 - ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. LEAKING EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE JOB SITE.
 - FERTILIZERS WILL BE STORED IN A COVERED SHED AND PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO REDUCE THE CHANCE OF SPILLAGE.
 - PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED.
 - SPILL KITS WILL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.
 - ANY ASPHALT SUBSTANCES USED ON SITE WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM WATER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTION.
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP SHALL BE READILY AVAILABLE AND BE KEPT IN AN ENCLOSED TRAILER OR SHED ON SITE. EQUIPMENT WILL INCLUDE, BUT NOT LIMITED TO, BROOMS, MOPS, DUST PANS, RAGS, GLOVES, ABSORBENT (KITTY LITTER, OIL ABSORBENT BOOMS, AND DIAPERS) AND BUCKETS.
 - ALL SPILLS WILL BE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY, SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1-800-422-0798.
 - CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE UNLESS DONE IN AN ENGINEERED CONTAINMENT SYSTEM. THE ENGINEERED SYSTEM MUST INCLUDE SITE DRAWINGS FOR THE PROJECT FILE AND WRITTEN ASSURANCE THAT THE SYSTEM WILL WORK AS DESIGNED AND LEAVE NO DISCHARGE OF CONCRETE OR CONCRETE RESIDUE POTENTIAL TO ENTER WATERS OF THE STATE.
 - FORM RELEASE OIL USED FOR CONCRETE WORK MUST BE APPLIED OVER A PALLET CONTAINING ABSORBENT TO COLLECT EXCESS LIQUID. THE ABSORBENT MATERIAL WILL BE REPLACED AND PROPERLY DISPOSED OF WHEN SATURATED.
 - DURING CIPP SEWER LINING ALL CONDENSATE SHALL BE COLLECTED OR DIRECTED INTO THE SANITARY SEWER. ALL CONDENSATE AND EXCESS RESIN DEPOSITED ON THE STREET, GROUND OR INTO WATER WAYS SHALL BE CLEANED UP IMMEDIATELY. ALL DUST AND SHAVINGS FROM CUTTING STORM SEWER LINERS SHALL BE CLEANED UP IMMEDIATELY AND SURFACES WIPED CLEAN.
 - DISCHARGES FROM BASIN DEWATERING OPERATIONS THAT ARE TURBID OR SEDIMENT LADEN SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS CONSTRUCTED ON THE SITE TO PROVIDE TREATMENT PRIOR TO DISCHARGE TO A WATERS OF THE STATE.

TRAFFIC CONTROL REQUIREMENTS:

- ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE CURRENT MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE MINNESOTA TEMPORARY CONTROL FIELD MANUAL.
- THE CONTRACTOR SHALL USE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SELECT THE APPROPRIATE TEMPORARY TRAFFIC CONTROL ZONE LAYOUT.
- THE CONTRACTOR SHALL FURNISH, INSTALL, ADJUST, MAINTAIN AND REMOVE ALL NECESSARY TRAFFIC CONTROL SIGNS AND DEVICES IN THE APPROPRIATE TEMPORARY TRAFFIC CONTROL ZONE LAYOUT.
- FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF INDIVIDUAL LAYOUTS AD DEEMED NECESSARY BY THE ENGINEER.
- ADDITIONAL SIGNS AND TRAFFIC CONTROL DEVICES OR ALTERNATE LAYOUTS MAY BE APPROVED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CHANGES RESULTING FROM THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL RECEIVE 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 (2563.601).
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH MUTCD.
- 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.
- ALL DEVICES SHALL BE MOVED OR COVERED AS SOON AS THEY ARE NO LONGER REQUIRED OR APPROPRIATE.
- CONTRACTOR TO VERIFY ALL EXISTING SIGN SIZES AND PREPARE CUSTOM SIGNS APPROPRIATE.
- WORK PERFORMED WITHOUT APPROPRIATE TRAFFIC CONTROL IN PLACE MAY BE CONSIDERED UNAUTHORIZED WORK AND MAY BE SUBJECT TO NONPAYMENT.
- BEFORE 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.
- PRIOR TO CLOSING ROADS THE CONTRACTOR SHALL CONTACT THE FOLLOWING AUTHORITIES 48 HOURS IN ADVANCE OF CLOSURE:
 - CITY OF DULUTH ENGINEERING DEPARTMENT
 - JOE JUREWICZ, P.E. 730-5095
OR BY EMAIL AT: jjurewicz@duluthmn.gov
 - PEGGY BILLINGS (FRONT DESK)..... 730-5200
OR BY EMAIL AT: pbillings@duluthmn.gov
 - ST. LOUIS COUNTY 911 DISPATCH..... 625-3581
 - DULUTH FIRE DEPARTMENT..... 730-5400
 - DULUTH POLICE DEPARTMENT..... 730-5400
 - DULUTH TRANSIT AUTHORITY (DTA) (ONLY WHEN IT AFFECTS A BUS ROUTE)
 - JEFF DAHLGREN..... 623-4310
OR BY EMAIL AT: jdahlgren@duluthtransit.com
 - DISPATCHERS (ONLY IF VERY SHORT NOTICE)..... 623-4328
 - DISTRICT SCHOOL BUSSES – (NOTIFY ALL THREE CONTACTS)
 - STEVE JOHNSON (ISD709 TRANS MGMT)..... 336-8700 EXT. 4005
 - DALE HONKALA (ISD709 TRANS MGMT)..... 348-5879
 - VOYAGER BUS COMPANY (RUDY, JOSH OR DEB)..... 724-1707
 - ST. LOUIS COUNTY COMMUNICATIONS SUPERVISOR
 - EMILY WARNYGORA..... 336-4349
 - SUMMIT SHUTTLE (ONLY UMD/ST. SCHOLASTICA/RICE LAKE RD./W. ARROWHEAD RD.)
 - JEFF RICHTMAN..... 651-705-3313 OR 651-373-6137 (C)

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

NOTES

SHEET NO. N1

				SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	SITE 6	SITE 7	SITE 8	SITE 9	SITE 10	SITE 11	SITE 12	SITE 13	SITE 14	SITE 15	SITE 16	SITE 17	SITE 18	SITE 19	SITE 20	SITE 21	SITE 22	SITE 23	SITE 24	SITE 25
LINE	SPEC NUMBER	DESCRIPTION	UNIT	331 W 3RD ST	329 W 3RD ST	309 W 3RD ST	301 W 3RD ST	313 N 3RD AVE W	209 W 3RD ST	125 W 3RD ST	120 W 3RD ST	18 W 3RD ST	113 E 3RD ST	115 E 3RD ST	117 E 3RD ST	119 E 3RD ST	125 E 3RD ST	313 N 2ND AVE E	201 E 3RD ST	205 E 3RD ST	209 E 3RD ST	211 E 3RD ST	219 E 3RD ST	221 E 3RD ST	331 E 3RD ST	632 E 3RD ST	702 E 3RD ST	716 E 3RD ST
1	2021.501	MOBILIZATION	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	2101.602	REMOVE TREE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	2104.602	SALVAGE & REINSTALL STREET SIGN	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	2104.603	REMOVE AND REPLACE CONCRETE CURB & GUTTER	LIN FT	8	8	8	8	8	8	8	8	8	5	4	5	4	8	—	9	8	5	4	8	8	8	8	—	8
5	2104.603	REMOVE AND REPLACE INTEGRANT CURB	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	2104.604	REMOVE & REPLACE CONCRETE DRIVEWAY APRON	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	—
7	2104.604	REMOVE & REPLACE STREET SECTION – TYPE B	SQ YD	—	—	—	—	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	2104.604	REMOVE & REPLACE STREET SECTION – TYPE E	SQ YD	9	—	—	—	—	—	—	2	2	—	—	—	—	—	9	—	—	—	—	—	—	—	2	—	—
9	2104.604	REMOVE & REPLACE STREET SECTION – TYPE F	SQ YD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	2104.618	REMOVE AND REPLACE BRICK PAVERS	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32
11	2104.503	SALVAGE & REINSTALL FENCE	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	2104.618	SALVAGE & REINSTALL HAND RAIL	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	2575.604	SALVAGE & REINSTALL PLANTING (BUSH, SHRUB, SMALL TREE)	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	2575.604	SALVAGE & REINSTALL LANDSCAPE GARDEN	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	2575.604	SALVAGE & REINSTALL ROCK RETAINING WALL	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	2575.604	SALVAGE & REINSTALL WOOD STEP/WALKWAY	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	2411.603	REMOVE & REPLACE CONCRETE STEPS	CU YDS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	2451.602	POTHOLE WATER SERVICE FOR MATERIAL IDENTIFICATION	EACH	1	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
19	2451.602	PROVIDE EXCAVATION FOR HOT TAP BY CITY EMPLOYEES	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	2503.602	TELEWISE & LOCATE SANITARY SERVICE	EACH	—	1	1	—	1	1	1	—	—	1	1	1	—	—	1	2	1	1	1	1	1	1	—	—	—
21	2504.601	TEMPORARY WATER	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	2504.602	2"x1" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	2504.602	8"x1" TAPPING TEE WITH ELECTROFUSION SADDLE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	2504.602	8" GATE VALVE & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	2504.602	10" GATE VALVE & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	2505.602	16" BUTTERFLY VALVE & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	2504.602	CONNECT TO EXISTING WATER MAIN	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	2504.602	CONNECT TO EXISTING CORPORATION STOP	EACH	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	2504.602	CONNECT TO EXISTING CURBSTOP	EACH	—	1	1	1	—	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1
30	2504.602	REPLACE CURBSTOP	EACH	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	2504.602	CURB STOP	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	2504.602	CONNECT TO EXISTING PRIVATE WATER SERVICE	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33	2504.602	BLOWOFF ASSEMBLY	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	2504.602	PREPARE FINISHED BASEMENT FOR WATER SERVICE REPLACEMENT	EACH	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
35	2504.602	CONNECT TO EXISTING INDOOR PLUMBING	EACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1
36	2504.602	ABANDON CURB STOP	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
37	2504.602	ABANDON WATER SERVICE AT CORPORATION STOP IN SEPARATE EXCAVATION	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
38	2504.602	2" CURB STOP & BOX	EACH	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
39	2504.603	INDOOR PLUMBING TO RELOCATE WATER METER, COPPER PIPE	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	2504.603	INDOOR PLUMBING TO RELOCATE WATER METER, PEX PIPE	hour	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	2504.603	1" HDPE SDR 9 SERVICE PIPE – PUBLIC	LIN FT	37	—	—	—	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
42	2504.603	1" HDPE SDR 9 SERVICE PIPE – PRIVATE	LIN FT	43	72	36	36	23	93	67	24	23	88	84	87	92	69	16	60	49	44	46	57	76	26	38	17	22
43	2504.603	1" HDPE SDR 9 SERVICE PIPE – PIPE BURSTING SANITARY LATERAL	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	2504.603	2" IPS HDPE SDR 9 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45	2504.603	8" DIPS HDPE SDR 11 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
46	2504.603	10" DIPS HDPE SDR 11 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
47	2504.603	16" DIPS HDPE SDR 11 WATER MAIN	LIN FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48	2504.604	3" POLYSTYRENE INSULATION	SQ YDS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
49	2521.618	REMOVE AND REPLACE 4" CONCRETE WALK	SQ FT	75	75	75	75	75	75	75	75	90	40	40	4	40	75	—	80	75	40	40	75	75	75	105	—	75
50	2521.618	REMOVE AND REPLACE 6" CONCRETE WALK	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75	—
51	2531.618	TRUNCATED DOMES	SQ FT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
52	2545.602	ELECTRICAL SERVICE GROUND	EACH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53	2563.601	TRAFFIC CONTROL	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
54	2573.601	EROSION CONTROL	LUMP SUM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
55	2575.504	SODDING TYPE LAWN	SQ YDS	7	7	7	7	4	7	8	5	1	4	4	4	4	7	—	8	7	4	4	7	7	7	—	—	—

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: 

JON LOYE, P.E.
TYPE NAME

DATE: MAY 2, 2024

LIC. NO: 52222



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

2024 DULUTH LEAD SERVICE REPLACEMENT – CENTRAL HILLSIDE 1

CITY PROJECT NO.:2215

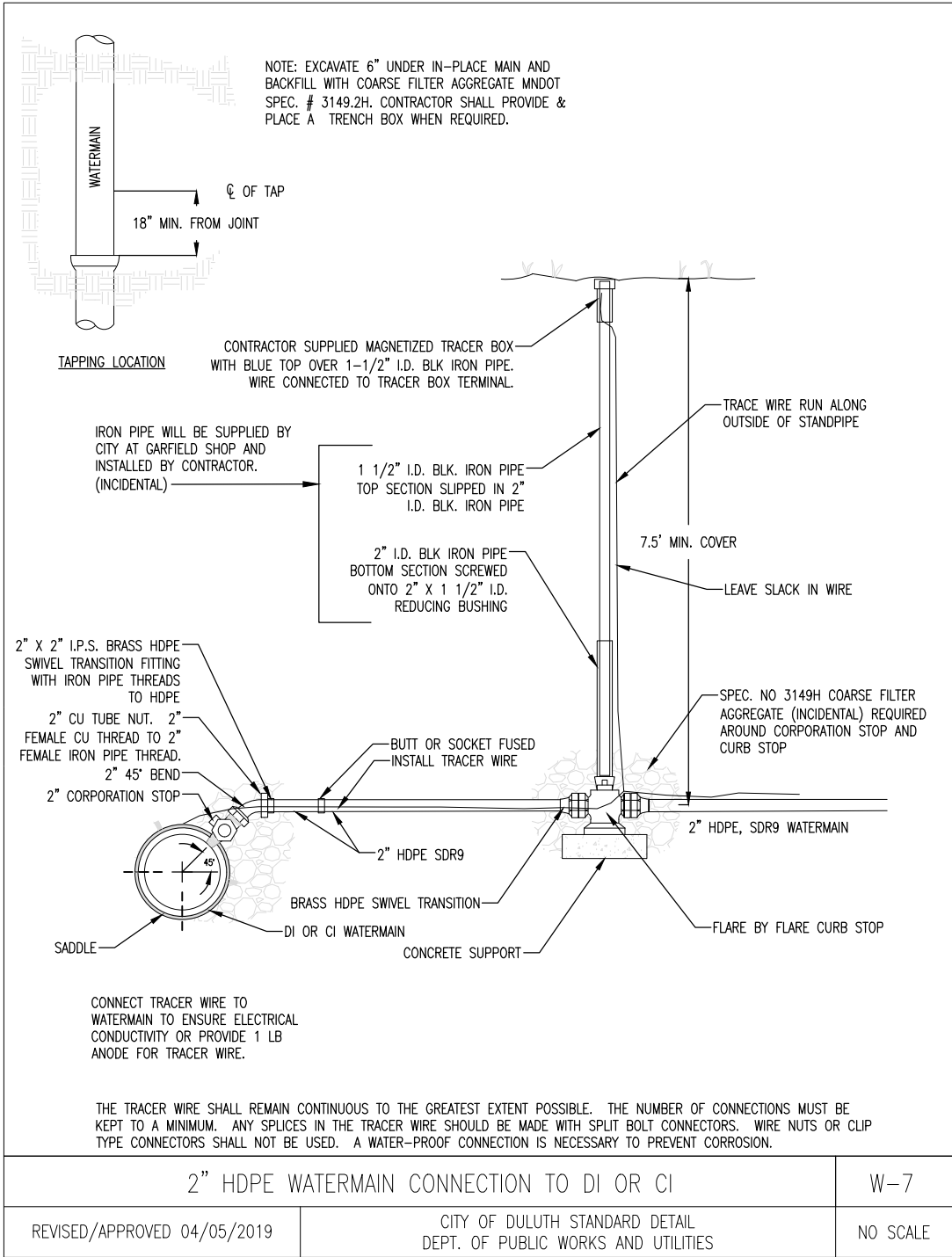
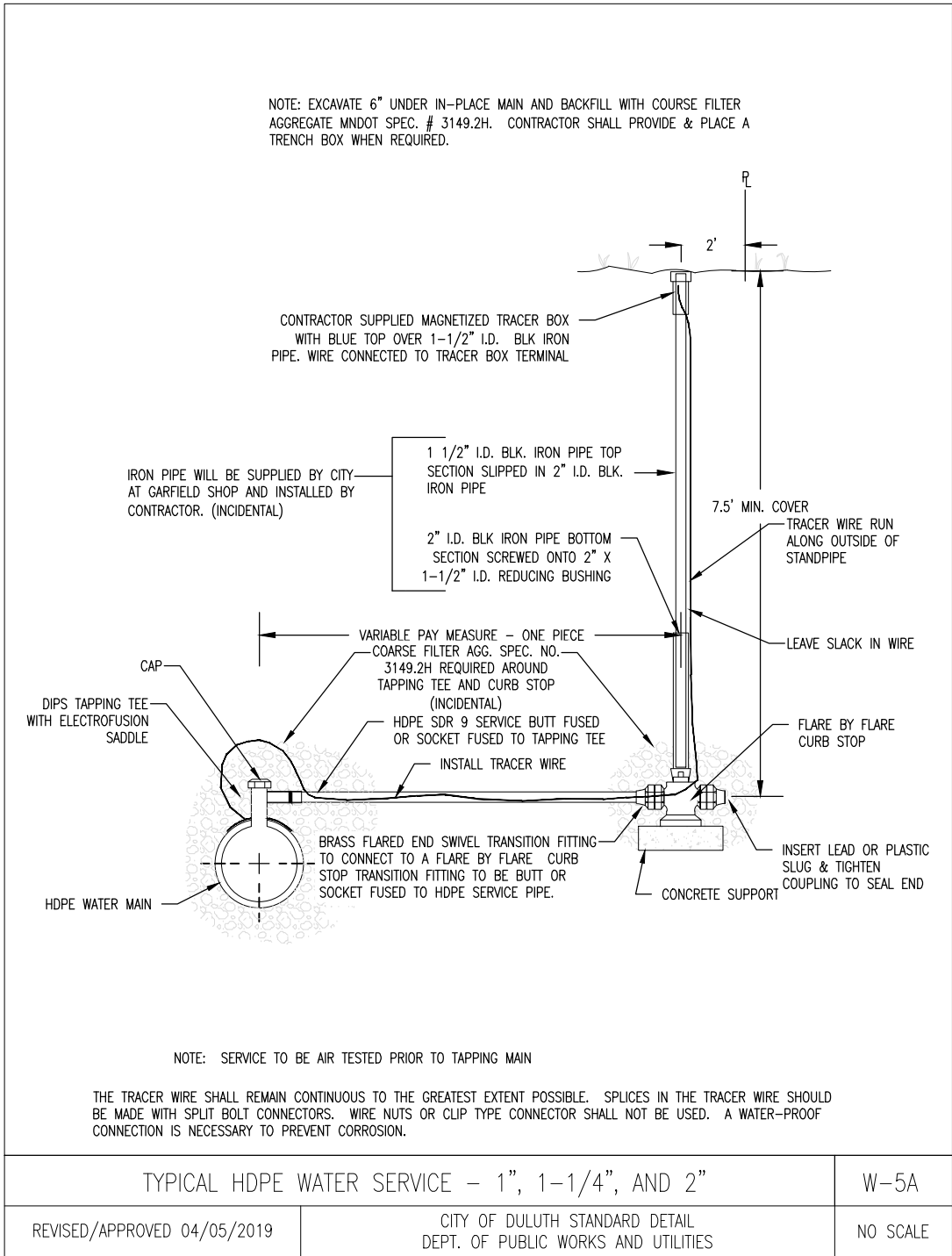
MPFA PROJECT NO.: 1690011–20

DRAWN BY: WRT

QUANTITY CHARTS

SHEET NO. C1

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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.

ADAM BESSE
PRINTED NAME

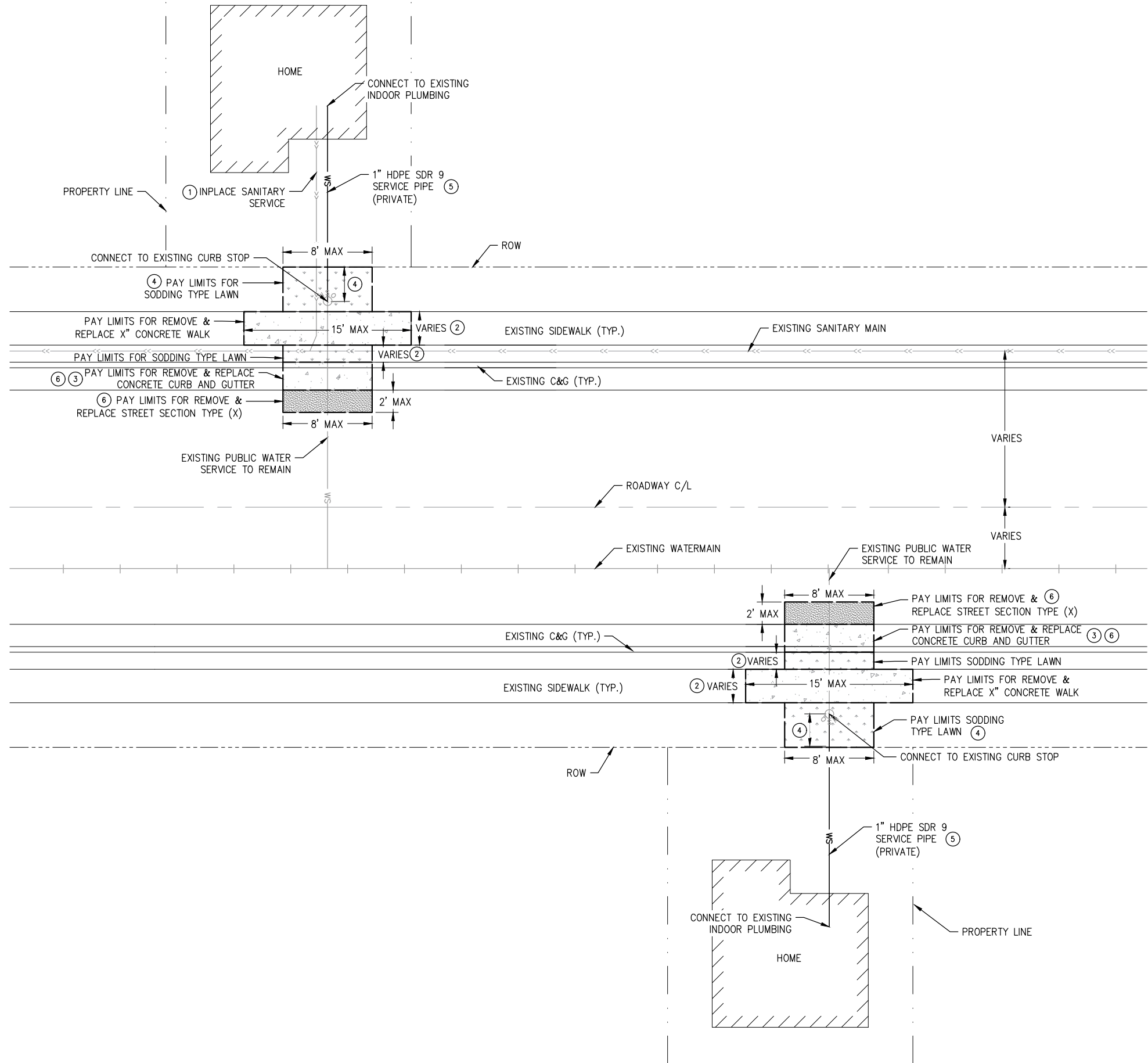
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05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

CONSTRUCTION DETAILS
SHEET NO. D1



KEY NOTES:

- WHERE THE SUSPECTED PRESENCE OF BEDROCK IS INDICATED IN THE PLANS OR WHERE DIRECTED BY THE ENGINEER DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL BE PREPARED TO UTILIZE A TRENCHLESS METHOD UTILIZING THE INPLACE SANITARY SEWER SERVICE LINE TO COMPLETE THE WATER SERVICE REPLACEMENT. IN SUCH CASES, THE WORK SHALL INCLUDE FULLY REPLACING THE SANITARY SERVICE LINE. REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS. UTILIZING THE SANITARY SERVICE TO PLACE THE WATER SERVICE LINE IS OTHERWISE NOT PERMITTED AND THE SANITARY SERVICE SHALL BE PROTECTED DURING THE WORK.
- SHALL MATCH EXISTING WALK OR CURB TYPE GEOMETRY.
- LIMIT OF MEASUREMENT FOR REMOVE & REPLACE INTEGRANT CURB, WHERE PRESENT, SHALL BE LIMITED TO A 2-FT OFFSET MEASURED FROM EXISTING FACE OF CURB.
- LIMITS OF PAYMENT FOR SODDING TYPE LAWN AREAS SHALL BE A MAXIMUM OF 6-FT BEHIND CURB STOP OR AS MEASURED TO THE RIGHT-OF-WAY, WHICHEVER IS LESS.
- NO PAYMENT SHALL BE MADE FOR ANY REMOVALS OR RESTORATION ON A PRIVATE PROPERTY BUT ALL COSTS SHALL BE CONSIDERED INCLUDED FOR PAYMENT UNDER THE 1" HDPE SDR 9 SERVICE PIPE (PRIVATE) PAY ITEM. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- CURB AND GUTTER AND PAVEMENT REMOVALS SHALL ONLY BE PAID FOR WHERE THE LOCATION OF THE INPLACE CURB STOP IS LOCATED WITHIN 2-FT OF THE INPLACE BACK OF CURB.

NOTE:

NO SEPARATE MEASUREMENT OR ADDITIONAL PAYMENT SHALL BE MADE FOR ANY CONSTRUCTION IMPACTS BEYOND THE PAY LIMITS SHOWN AND ALL SUCH IMPACTS SHALL BE FULLY RESTORED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.

TYPICAL WATER SERVICE REPLACEMENT
(PRIVATE SIDE LEAD SERVICE REPLACEMENT ONLY)

APPLIES: LEAD SERVICE REPLACEMENT FROM CURB
STOP TO CONNECTION TO INDOOR PLUMBING

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.

ADAM BESSE
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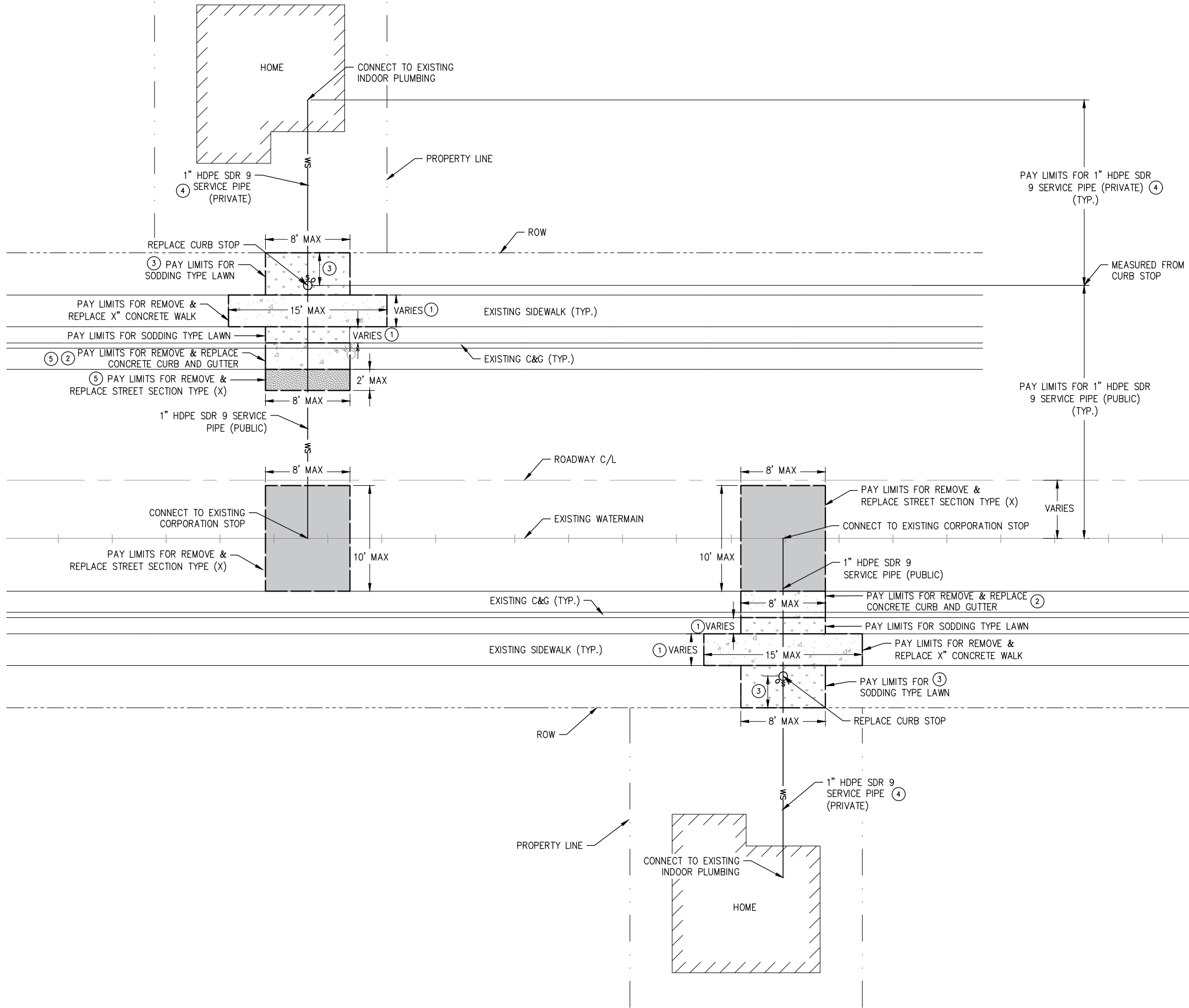
Adam Besse
SIGNATURE

05/03/2024
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LIC. NO.

LINCOLN PARK LSLR
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

CONSTRUCTION DETAILS
SHEET NO. D12



KEY NOTES:

- ① SHALL MATCH EXISTING WALK OR CURB TYPE GEOMETRY.
- ② LIMIT OF MEASUREMENT FOR REMOVE & REPLACE INTEGRANT CURB, WHERE PRESENT, SHALL BE LIMITED TO A 2-FT OFFSET MEASURED FROM EXISTING FACE OF CURB.
- ③ LIMITS OF PAYMENT FOR SODDING TYPE LAWN AREAS SHALL BE A MAXIMUM OF 6-FT BEHIND CURB STOP OR AS MEASURED TO THE RIGHT-OF-WAY, WHICHEVER IS LESS.
- ④ NO PAYMENT SHALL BE MADE FOR ANY REMOVALS OR RESTORATION ON A PRIVATE PROPERTY BUT ALL COSTS SHALL BE CONSIDERED INCLUDED FOR PAYMENT UNDER THE 1" HDPE SDR 9 SERVICE PIPE (PRIVATE) PAY ITEM. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- ⑤ CURB AND GUTTER AND PAVEMENT REMOVALS SHALL ONLY BE PAID FOR WHERE THE LOCATION OF THE INPLACE CURB STOP IS LOCATED WITHIN 2-FT OF THE INPLACE BACK OF CURB.

NOTE:

NO SEPARATE MEASUREMENT OR ADDITIONAL PAYMENT SHALL BE MADE FOR ANY CONSTRUCTION IMPACTS BEYOND THE PAY LIMITS SHOWN AND ALL SUCH IMPACTS SHALL BE FULLY RESTORED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.

TYPICAL WATER SERVICE REPLACEMENT
(FULL LEAD WATER SERVICE REPLACEMENT)

APPLIES: LEAD SERVICE REPLACEMENT FROM WATER
MAIN TO CONNECTION TO INDOOR PLUMBING

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.

ADAM BESSE
PRINTED NAME

[Signature]
SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR
CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

CONSTRUCTION DETAILS
SHEET NO. D13

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

1. GENERAL

THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) REGULATES STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY DISTURBING LAND EQUAL TO OR GREATER THAN ONE ACRE THROUGH A GENERAL STORMWATER PERMIT (PERMIT NO. MN R100001) AUTHORIZING THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO WATERS OF THE STATE IN COMPLIANCE WITH THE CLEAN WATER ACT AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM. THE GENERAL PERMIT (PERMIT) REQUIRES THE DEVELOPMENT AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP IS A COMBINATION OF NARRATIVE, CALCULATIONS, PLANS SHEETS, AND STANDARD DETAIL SHEETS THAT ADDRESS THE FORESEEABLE CONDITIONS AT ANY STAGE IN THE CONSTRUCTION OR POST-CONSTRUCTION ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING TEMPORARY BMPs AT EACH PROJECT SITE TO MANAGE CONSTRUCTION STORMWATER AND TO PREVENT THE DISCHARGE OF SEDIMENT LADEN STORMWATER TO "WATERS OF THE STATE".

UNLESS A SPECIFIC PAYMENT ITEM(S) ARE PROVIDED THEREFORE, ALL WORK TO COMPLY WITH THE NPDES STORMWATER PERMIT SHALL BE CONSIDERED INCIDENTAL WITH NO SEPARATE PAYMENT THEREFOR.

2. GENERAL AND ADMINISTRATIVE REQUIREMENTS

- A. RESPONSIBLE PARTIES: THE OWNER AND GENERAL CONTRACTOR (OPERATOR)(CONTRACTOR) ARE CO-PERMITTEES OF THE PERMIT AND ARE JOINTLY RESPONSIBLE FOR COMPLIANCE WITH TERMS AND CONDITIONS OF THE PERMIT. OBTAIN AND REVIEW THE PERMIT AND COMPLY WITH PERMIT SECTIONS 3, 4, 6-24 (PERMIT PART 3.5). VERIFY THAT PERMIT REQUIREMENTS ARE SATISFIED AND COMPLETE THE BLANKS ON THIS SWPPP SHEET(S).
- B. PERMIT APPLICATION (PERMIT ITEM 3.2): THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER, COMPLETING THE PERMIT APPLICATION ON-LINE, AND PAYING THE APPLICATION FEE. APPLY ON-LINE AT THE MPCA CONSTRUCTION STORM WATER WEBSITE: <https://www.pca.state.mn.us/water/construction-stormwater>.
- C. PERMIT COVERAGE (PERMIT ITEMS 3.3, 3.4): FOR PROJECTS THAT DISTURB LESS THAN 50 ACRES OR DO NOT DISCHARGE STORMWATER WITHIN 1 MILE (AERIAL RADIUS MEASUREMENT FROM PROJECT BOUNDARIES) OF A SPECIAL OR IMPAIRED WATER, PERMIT COVERAGE TYPICALLY BECOMES EFFECTIVE UPON ON-LINE APPLICATION AND COMPLETION OF THE PAYMENT PROCESS.

FOR PROJECTS THAT DISTURB 50 ACRES OR MORE AND DISCHARGE STORMWATER WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER, THE COMPLETE SWPPP MUST BE SUBMITTED TO THE MPCA AT LEAST 30 DAYS BEFORE THE START OF CONSTRUCTION. CONSTRUCTION MAY BEGIN AFTER ON-LINE APPLICATION, COMPLETION OF THE PAYMENT PROCESS, AND, AFTER RECEIVING A DETERMINATION LETTER FROM THE MPCA THAT REVIEW OF THE SWPPP IS COMPLETE. IF THE MPCA FAILS TO CONTACT PERMITTEES WITHIN 30 DAYS OF APPLICATION RECEIPT, COVERAGE IS EFFECTIVE 30 DAYS AFTER COMPLETING THE PAYMENT PROCESS.

- * DOES THE PROJECT DISTURB 50 ACRES OR MORE? NO
- * DOES THE PROJECT DISCHARGE WITHIN 1-MILE OF A SPECIAL (PERMIT ITEM 23.3-23.6) OR IMPAIRED WATER (PERMIT ITEM 23.7)? YES

IF "YES" FOR BOTH OF THE ABOVE, SUBMIT THE ONLINE APPLICATION, PAYMENT, AND THE COMPLETE SWPPP (SWPPP AND PLAN SHEETS IT REFERENCES, STORMWATER REPORT, AND SITE ASSESSMENTS FOR GROUNDWATER AND SOIL CONTAMINATION), AT LEAST 30 DAYS BEFORE THE START OF CONSTRUCTION.

DO NOT BEGIN LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL PERMIT COVERAGE IS EFFECTIVE. THE START OF ANY LAND DISTURBING ACTIVITIES SIGNIFIES THAT THE CONTRACTOR IS ASSUMING RESPONSIBILITY FOR PERMIT COVERAGE AND HAS COMPLIED WITH PERMIT REQUIREMENTS.

- D. NOTIFICATION OF COVERAGE (PERMIT ITEM 3.6): THE CONTRACTOR WILL RECEIVE A NOTIFICATION OF COVERAGE FROM THE MPCA (E.G., VIA EMAIL). KEEP OR POST A COPY OF THE NOTIFICATION OF COVERAGE WITH THE SWPPP AT THE PROJECT SITE. PROVIDE COPIES TO THE OWNER AND LHB.
- E. CHANGE OF COVERAGE FOR NEW OWNER OR NEW OPERATOR (PERMIT ITEMS 3.7, 3.8): FOR A NEW OWNER OR OPERATOR, THE CURRENT OWNER, AND NEW OWNER OR OPERATOR, MUST SUBMIT A "NOTICE OF TERMINATION/PERMIT MODIFICATION FORM" PRIOR TO THE NEW OWNER OR OPERATOR COMMENCING CONSTRUCTION ACTIVITY, NO LATER THAN 30 DAYS AFTER PROPERTY OWNERSHIP TRANSITION. THIS FORM IS AVAILABLE AT THE ABOVE MPCA WEBSITE.
- F. TERMINATION OF COVERAGE (PERMIT SECTION 4): THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER AND TERMINATING PERMIT COVERAGE BY COMPLETING AND SUBMITTING A "NOTICE OF TERMINATION/PERMIT MODIFICATION FORM" (NOT) TO THE MPCA AFTER ALL OF THE CONDITIONS OF PERMIT ITEM 4.4 AND 4.5 ARE SATISFIED. PROVIDE, TO OWNER, PHOTOS OF THE SITE SUBMITTED TO THE MPCS WITH THE NOT.
- G. RECORD RETENTION AND AVAILABILITY (PERMIT SECTION 20): THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP, INCLUDING ALL CHANGES, AND INSPECTIONS AND MAINTENANCE RECORDS ON SITE OR ELECTRONICALLY AVAILABLE ON-SITE DURING NORMAL WORKING HOURS DURING CONSTRUCTION PER PERMIT SECTION 20. THIS DOCUMENTATION MUST BE KEPT ON FILE FOR 3 YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION. COORDINATE TRANSFER OF THIS DOCUMENTATION TO THE OWNER AT PROJECT COMPLETION.
- H. CHANGES (AMENDMENTS) TO SWPPP (PERMIT SECTION 6): UPDATE AND DOCUMENT CHANGES WITHIN 7 DAYS TO THE SWPPP DURING CONSTRUCTION PER PERMIT SECTION 6. KEEP DOCUMENTATION WITH THE SWPPP (E.G., "THE REASON INLET PROTECTION WAS REMOVED FROM INLET 23 WAS DUE TO STREET FLOODING/FREEZING CONCERNS, AS ALLOWED BY PERMIT ITEM 9.8.").

3. CONSTRUCTION ACTIVITY REQUIREMENTS

- A. GENERAL: COMPLY WITH THE PERMIT AND SWPPP AND THE REQUIREMENTS OF THE PERMIT. THE BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE SWPPP AND PERMIT MUST BE SELECTED, INSTALLED, AND MAINTAINED IN AN APPROPRIATE AND FUNCTIONAL MANNER IN ACCORDANCE WITH THE

CONSTRUCTION DOCUMENTS, MANUFACTURER RECOMMENDATIONS, AND ACCEPTED ENGINEERING PRACTICES.

- B. EROSION PREVENTION PRACTICES (PERMIT SECTION 8): BEFORE WORK BEGINS, DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED (E.G., BUFFERS).

WHEN STEEP SLOPES MUST BE DISTURBED, USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING, TERRACING).

WHEN CONSTRUCTION ACTIVITY WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS (7 DAYS FOR SPECIAL AND IMPAIRED WATERS, SEE SECTION23), STABILIZE EXPOSED SOIL AREAS (INCLUDING STOCKPILES) IMMEDIATELY, AND COMPLETE THE STABILIZATION NO LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED (NO LATER THAN 7 DAYS FOR SPECIAL OR IMPAIRED WATERS AS DESCRIBED IN PERMIT SECTION 23). AMEND SWPPP BY INDICATING THE LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS (E.G., STEEP SLOPE AREAS).

PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY THE ABOVE AND ALL CONDITIONS OF PERMIT SECTION 8.

- C. SEDIMENT CONTROL PRACTICES & TEMPORARY SEDIMENT BASINS (PERMIT SECTIONS 9 AND 14): BEFORE ANY LAND DISTURBING ACTIVITY BEGINS, ESTABLISH SEDIMENT CONTROL BMPs ON ALL DOWNGRAIDENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATERS, INCLUDING BUT NOT LIMITED TO, CURB AND GUTTER SYSTEMS, STORM SEWER INLETS, DITCHES. BMPs MUST BE LOCATED UPGRADIENT OF ANY BUFFER ZONES AND MUST REMAIN IN PLACE UNTIL PERMANENT COVER IS ESTABLISHED FOR THE AREA DRAINING TO IT.

FOR CONSTRUCTION AREAS THAT DRAIN TOWARDS ADJACENT SURFACE WATERS, PRESERVE A 50 FOOT NATURAL BUFFER (100 FOOT FOR SPECIAL OR IMPAIRED WATERS AS DESCRIBED IN PERMIT SECTION 23), OR PROVIDE REDUNDANT PERIMETER SEDIMENT CONTROLS. IF PRESERVING A BUFFER IS INFESIBLE, DOCUMENT THIS DETERMINATION AND THE SUBSTITUTE BMPs IN THE SWPPP PER PERMIT ITEM 9.17.

PLAN FOR AND IMPLEMENT CONSTRUCTION PRACTICES TO SATISFY THE ABOVE AND ALL CONDITIONS OF PERMIT SECTION 9 AND 14.

- D. DEWATERING AND BASIN DRAINING (PERMIT SECTION 10): COMPLY WITH SECTION 10 OF THE PERMIT.
- E. INSPECTIONS AND MAINTENANCE (PERMIT SECTION 11): COMPLY WITH SECTION 11 OF THE PERMIT.
- F. POLLUTION PREVENTION MANAGEMENT MEASURES (PERMIT SECTION 12): COMPLY WITH SECTION 12 OF THE PERMIT. AMEND SWPPP BY INDICATING THE LOCATION OF POTENTIAL POLLUTANT GENERATING ACTIVITIES ON SITE MAPS FOR THE DURATION OF CONSTRUCTION PER PERMIT SECTION 5.9.

4. SWPPP RESPONSIBILITIES/TRAINED INDIVIDUALS

- A. THE CONTRACTOR WILL OVERSEE SWPPP IMPLEMENTATION, REVISE AND AMEND THE SWPPP, AND PERFORM INSPECTIONS. THE FOLLOWING CONTRACTOR REPRESENTATIVE IS TRAINED TO PERFORM THESE DUTIES AND WILL ASSUME THESE RESPONSIBILITIES (PERMIT ITEMS 5.20, 21.2.b):

NAME: _____
TRAINING DATE/INSTRUCTOR/ENTITY: _____
TRAINING CONTENT/HOURS: _____

- B. THE CONTRACTOR WILL SUPERVISE THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPs BEFORE AND DURING CONSTRUCTION. THE FOLLOWING CONTRACTOR REPRESENTATIVE IS TRAINED TO PERFORM THESE DUTIES AND WILL ASSUME THESE RESPONSIBILITIES (PERMIT ITEMS 5.20, 21.2.c):

NAME: _____
TRAINING DATE/INSTRUCTOR/ENTITY: _____
TRAINING CONTENT/HOURS: _____

- C. PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs WHO WILL COORDINATE WITH CONTRACTORS, SUBCONTRACTORS, AND OPERATORS ON-SITE TO OVERSEE IMPLEMENTATION OF THE SWPPP (PERMIT ITEM 5.21)(TYPICALLY GENERAL CONTRACTOR):

NAME/TITLE: _____

- D. CHAIN OF RESPONSIBILITY: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SWPPP IMPLEMENTATION ON THE CONSTRUCTION SITE AND IS ACCOUNTABLE FOR SUBCONTRACTORS AND OTHER CONTRACTORS WORKING ON SITE AND THEIR COMPLIANCE WITH THE GENERAL STORMWATER PERMIT AND SWPPP REQUIREMENTS.

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

SWPPP

SHEET NO. E1

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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE (CONTINUED)

5. REGULATORY AGENCIES AND PERMITS

A. COMPLY WITH REQUIREMENTS OF ALL REGULATORY AGENCIES AND PERMITS HAVING JURISDICTION DURING CONSTRUCTION ACTIVITIES.

6. DESCRIPTION OF THE CONSTRUCTION ACTIVITY / SWPPP COMPONENTS

A. NARRATIVE/TIMING (PERMIT ITEM 5.4):

- 1) PROJECT SUMMARY: THE PROJECT INVOLVES THE REPLACEMENT OF LEAD WATER SERVICE LINES IN THE GARY NEW DULUTH NEIGHBORHOOD AT APPROXIMATELY 165 INDIVIDUAL RESIDENTIAL LOCATIONS.

a. DEWATERING ACTIVITIES.

b. STREETS, CURB AND GUTTER, AND SIDEWALK CONSTRUCTION.

c. CONSTRUCTION OF OTHER UTILITIES (E.G. DRINKING WATER AND SANITARY SEWER).

d. SURFACE RESTORATION AND TURF STABILIZATION.
- 2) TIMING FOR INSTALLATION OF EROSION & SEDIMENTATION BMPS AND PERMANENT STORMWATER MANAGEMENT SYSTEMS, IN GENERAL SEQUENTIAL ORDER FROM FIRST TO LAST (PERMIT ITEM 5.4):

a. INLET PROTECTION FOR EXISTING INLETS / SILT FENCE / DELINEATION AREAS NOT TO BE DISTURBED / ROCK CONSTRUCTION ENTRANCE / TEMPORARY SEDIMENTATION BASIN: PROVIDE PRIOR TO CONSTRUCTION; MAINTAIN DURING CONSTRUCTION.

b. SILT FENCE AROUND STOCKPILES: PROVIDE DURING CONSTRUCTION.

c. PORTABLE SEDIMENT CONTAINMENT SYSTEMS FOR TREATING WATER FROM DEWATERING OPERATIONS : PROVIDE DURING CONSTRUCTION.

d. INLET PROTECTION FOR NEW INLETS: PROVIDE AS CONSTRUCTED.

e. OIL–GRIT PRETREATMENT UNITS

f. HARD SURFACING (E.G., BUILDING ROOFS, PAVEMENTS)

g. VEGETATIVE COVER / EROSION CONTROL BLANKETS: AFTER FINAL TOPSOIL PLACEMENT AND FINISH GRADING.

f. INFILTRATION AND FILTRATION BASINS

g. REMOVAL OF TEMPORARY BMPS: AFTER FINAL STABILIZATION IS ESTABLISHED.

3) IMPERVIOUS SURFACE AREAS / WATER QUALITY VOLUME:

- a. PRE–CONSTRUCTION IMPERVIOUS (PERMIT ITEM 5.8): 0.5 ACRES
- b. POST–CONSTRUCTION IMPERVIOUS (PERMIT ITEM 5.8): 0.5 ACRES
- c. NET NEW IMPERVIOUS: 0.0 ACRES
- d. WATER QUALITY VOLUME: NA CUBIC FEET
- e. ACTUAL WATER QUALITY VOLUME RETAINED ON–SITE / METHOD OF RETENTION: NA CUBIC FEET / INFILTRATION
- f. THE REASON THE FULL WATER QUALITY VOLUME CANNOT BE INFILTRATED (PER PERMIT ITEM 5.15): NA
- g. REMAINDER OF WATER QUALITY VOLUME AND ALTERNATIVE TREATMENT METHOD: NA

4) CHEMICALS AND CHEMICAL TREATMENT SYSTEMS USED FOR ENHANCING THE ON–SITE SEDIMENTATION PROCESS AND HOW COMPLIANCE WILL BE ACHIEVED (PERMIT ITEM 5.22): NA

5) PER PERMIT ITEM 5.13, DOCUMENTATION OF INFEASIBILITY FOR:

- a. TEMPORARY SEDIMENT BASIN (PERMIT PART 14.10): NA
- ALTERNATIVE (PERMIT ITEM 5.14): NA
- b. OBTAINING RIGHT–OF–WAY FOR PERMANENT STORMWATER MANAGEMENT SYSTEMS OF LINEAR PROJECTS: NA
- c. BUFFER ZONES (PERMIT ITEMS 9.17 AND 23.11): NA

6) STORMWATER MITIGATION MEASURES IDENTIFIED IN ENVIRONMENTAL REVIEW OR OTHER REQUIRED REVIEW (PERMIT ITEM 5.16): NA

B. STORMWATER REPORT (PERMIT ITEM 5.6): NA

C. SITE ASSESSMENTS FOR GROUNDWATER OR SOIL CONTAMINATION (PERMIT ITEM 5.25): NA

D. PLAN SHEETS:

- 1) SWPPP (PERMIT ITEM 5.2): THIS SHEET(S), INCLUDING DOCUMENTATION DESCRIBED AND REFERENCED HEREIN.
- 2) TEMPORARY BMPS / ESTIMATED QUANTITIES LOCATIONS OF AREAS NOT TO BE DISTURBED / SOIL TYPES (PERMIT ITEMS 5.3, 5.5, 5.7, 5.9): SEE SHEET

G2, SHEET G13, AND SHEETS 25–193, AND STANDARD DETAIL SHEETS.

3) PERMANENT BMPS (PERMIT ITEM 5.3, 5.5): SEE SHEETS G15–23.

4) EXISTING GRADES, DRAINAGE BOUNDARIES AND FLOW DIRECTIONS, DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE OR ENTERS SURFACE WATERS, AREAS OF STEEP SLOPES (PERMIT ITEM 5.9): SEE SHEETS 25–193.

5) FINAL GRADES, DRAINAGE BOUNDARIES AND FLOW DIRECTIONS, DISCHARGE POINTS WHERE STORMWATER LEAVES THE SITE OR ENTERS SURFACE WATERS, AREAS OF STEEP SLOPES (PERMIT ITEM 5.9): SEE SHEETS 25–193.

6) IMPERVIOUS SURFACING / METHODS OF FINAL STABILIZATION (PERMANENT COVER)(PERMIT ITEM 5.17): SEE SHEETS 25–193.

7) MAP OF SURFACE WATERS, EXISTING WETLANDS AND STORMWATER PONDS/BASINS IDENTIFIABLE ON USGS 7.5 MIN. QUAD. MAPS, NWI MAP OR EQUIVALENT WITHIN 1 MILE OF SITE (AERIAL RADIUS MEASUREMENT FROM PROJECT BOUNDARIES) THAT RECEIVE RUNOFF FROM SITE DURING OR AFTER CONSTRUCTION (IDENTIFY SPECIAL AND IMPAIRED WATERS AND ANY APPROVED TMDLS)(PERMIT ITEMS 5.10, 5.19): NA

8) FOR THE ABOVE SPECIAL OR IMPAIRED WATERS, DOCUMENTATION OF BMPS USED TO ADDRESS TMDL OR WLA REQUIREMENTS TO COMPLY WITH PERMIT SECTION 23: NA

9) SITE MAP OF CONSTRUCTION ACTIVITY AREAS THAT ARE ADJACENT TO AND DRAIN TO MINNESOTA DEPARTMENT OF NATURAL RESOURCES (MDNR) PUBLIC WATERS PROMULGATED AS "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIMES (PERMIT ITEM 5.11): NA

10)METHODS TO PRESERVE TOPSOIL AND TOPSOIL PRESERVATION AREAS (PERMIT ITEM 5.24): NA

11)METHODS TO MINIMIZE SOIL COMPACTION AND INFILTRATION AREAS TO BE PROTECTED FROM EXCESSIVE SOIL COMPACTION AND SEDIMENTATION (PERMIT ITEM 5.24): SEE SHEET G13 AND SHEETS 25–193

12)AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE THE DURATION OF EXPOSED SOILS (PERMIT ITEM 5.18): NA

13)DELINEATION OF BUFFER ZONES (PERMIT ITEM 5.12): NA

E. STANDARD DETAIL SHEETS: MnDOT STANDARD PLANS 5–297.405 IS HEREBY INCORPORATED BY REFERENCE. SHEETS 4 OF 8, 5 OF 8, AND 6 OF 8 SHALL APPLY. AVAILABLE AT: <https://standardplans.dot.state.mn.us/>

F. MAINTENANCE PLAN: NA

7. STANDARDS SPECIFICATIONS FOR CONSTRUCTION:

UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS, MATERIAL AND CONSTRUCTION REQUIREMENTS FOR TEMPORARY SEDIMENT CONTROL AND EROSION PREVENTION SHALL BE IN ACCORDANCE WITH THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

8. CALCULATIONS AND OTHER INFORMATION USED FOR DESIGN OF TEMPORARY SEDIMENTATION BASINS AND PERMANENT STORMWATER TREATMENT SYSTEMS (PERMIT ITEM 5.6): NA

9. PROCEDURES TO ESTABLISH ADDITIONAL TEMPORARY BMPS, AS NECESSARY, DURING CONSTRUCTION (PERMIT ITEM 5.5):

A. IF REGULAR INSPECTIONS OR OTHER OBSERVATIONS INDICATE THE NEED FOR ADDITIONAL TEMPORARY BMPS TO PREVENT EROSION, THEN PROVIDE ADDITIONAL BMPS BEFORE THE NEXT RAIN EVENT.

B. THE CONTRACTOR SHALL PREPARE, PROVIDE, AND MAINTAIN CLEAR AND UPDATED SITE PLANS OF THE CURRENT TEMPORARY BMPS ON THE CONSTRUCTION PLAN SHEETS PROVIDED.

C. AMEND THE SWPPP WITH ALL CHANGES TO THE SWPPP WITHIN 7 DAYS.

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.

ADAM BESSE
PRINTED NAME


SIGNATURE

05/03/2024
DATE
52597
LIC. NO.

LINCOLN PARK LSLR

CITY PROJECT NO. 2214

2024 LEAD WATER SERVICE REPLACEMENTS
LINCOLN PARK 3

SWPPP

SHEET NO. E2

PLOT DATE: 5/2/2024 3:34:09 PM FILE: G:\23-Proj\230879\500 Drawings\Civil\230879_01.0 - SWPPP.dwg

