

Four Rivers Sanitation Authority

Rockford, Illinois

Bidding Requirements and Contract Forms

North Avenue and Napoleon Street

Capital Project No. 2564

Four Rivers Sanitation Authority

Rockford, Illinois

Bidding Requirements and Contract Forms
and
General Provisions and Technical Specifications
for
Sanitary Sewer Construction

for

North Avenue and Napoleon Street

Capital Project No. 2564

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Not to be used for bidding purposes

Section I
Bidding Requirements

Not to be used for bidding purposes

Article 1 — Notice to Bidders

The Four Rivers Sanitation Authority (FRSA) will receive signed and sealed bids for the North Avenue and Napoleon Street, Capital Project No. 2564, at the Steve Graceffa Administration Building (Administration Building) at 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Wednesday, August 20, 2025, at which time and place responsive / responsible bids will be publicly opened and read aloud.

The North Avenue and Napoleon Street project consists of constructing 654 feet of 8-inch diameter PVC sanitary sewer, 807 feet of 4-inch diameter sanitary services with cleanouts, and four (4) manholes, hot-mix asphalt pavement removal and replacement, curb and gutter removal and replacement, sidewalk removal and replacement, turf restoration, and all other appurtenances indicated on the plans and in the specifications. The project is located in the public Right-of-Way of North Avenue in Rockford, Winnebago County, Illinois.

Bidder's attention is called to Article 2 – Instructions to Bidders 3.8 requirements for Statement of Qualifications. Bidder must have a permanent business office within forty (40) miles of FRSA's office at 3501 Kishwaukee Street in Rockford, Illinois.

All demolition, construction, installation and associated Project work shall be completed by November 14, 2025. Liquidated damages shall be \$300.00 per calendar day.

Bid documents may be obtained at a cost of \$50.00 per set (non-refundable) by contacting the FRSA Engineering Department at 815-387-7660.

Plans and specifications may also be viewed at the offices of the Northern Illinois Building Contractors Association at 1111 S. Alpine Rd, Rockford, Illinois. For more information, visit the FRSA website at fourrivers.illinois.gov.

A Non-Mandatory Pre-Bid Meeting for this project will be held on Wednesday, August 13, 2025, at 11:00 a.m. in the FRSA Board Room in the Steve Graceffa Administration Building, 3501 Kishwaukee Street, Rockford, Illinois.

All construction shall be done in accordance with specifications on file with FRSA, including the *General Provisions and Technical Specifications for Sanitary Sewer Construction, Four Rivers Sanitation Authority (Current Edition)*.

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount of five percent (5%) of the total bid price. This amount is a guarantee that, if the Proposal is accepted, a Contract will be entered into and its performance properly secured.

The successful bidder will be required to furnish a satisfactory Performance Bond in the full amount of the Bid or Proposal. No Bid shall be withdrawn without FRSA's consent for a period of sixty (60) days after the scheduled closing time for receipt of bids.

FRSA reserves the right to reject any or all bids, or any part thereof, or to accept any bid or any part thereof, or to waive any formalities in any bids, deemed to be in the best interest of FRSA.

Dated this 1st day of August, 2025.

BY: Christopher T. Baer, PE, Executive Director

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

This section of the Contract Documents provides detailed information and requirements for preparing bids to prospective bidders, bidders' responsibility, the preparation and the submission of bids, basis for awarding the Contract and other general information concerned with bidding and executing the Contract.

1.2 Contradictions

If in the case of apparent contradictions between or among the Contract Documents, the Contract Documents shall be consulted in the following order: Addenda, Agreement, Supplementary Drawings, Instructions to Bidders, Detailed Specifications, Plans, Four Rivers Sanitation Authority (FRSA) General Provisions and Technical Specifications for Sanitary Sewer Construction. The language in the first such document in which language regarding the conflict, error or discrepancy occurs shall control.

1.3 Optional Pre-Bid Meeting

An optional Pre-Bid Meeting for this project will be held on Wednesday, August 13, 2025, at 11:00 a.m. in the FRSA Board Room in the Steve Graceffa Administration Building at 3501 Kishwaukee Street, Rockford, Illinois.

2 Legal Requirements

2.1 Illinois Regulations

- A. Public Act 100-1177 (820 ILCS 130/) entitled the "Prevailing Wage Act" requires the Bidder to comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on FRSA projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>. The Bidder is responsible for verifying current information at the State's website.
- B. Public Act 83-1030 (30 ILCS 565/) entitled the "Steel Products Procurement Act" requires that steel products used or supplied in performance of this Contract or subcontract must be manufactured or produced in the United States with three exceptions.

The provisions of this Section shall not apply:

1. Where the Contract involves an expenditure of less than \$500.
2. Where the executive head of the public agency certifies in writing that
 - a) the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
 - b) obtaining the specified products, manufactured or produced in the United States would increase the cost of the Contract by more than 10%.

3. When its application is not in the public interest.
- C. Public Act 96-929 (30 ILCS 570/) entitled the “Employment of Illinois Workers on Public Works Act” provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and, further, that Illinois workers are available and capable of performing the particular type work involved.
- D. Public Act 101-221 (820 ILCS 96/) entitled the “Workplace Transparency Act” requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:
 1. the illegality of sexual harassment
 2. the definition of sexual harassment under Illinois State law
 3. a description of sexual harassment, utilizing examples
 4. my (our) organization's internal complaint process including penalties
 5. the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission
 6. directions on how to contact the Department and the Commission
 7. protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act

Upon request, this information must be provided to the Illinois Department of Human Rights and the FRSA.

- E. With regard to nondiscrimination in employment, the Contractor for this project will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations.
- F. The Contractor for this project must comply with the Occupational Safety and Health Act.
- G. The Contractor for this project must comply with the Federal Drug-Free Workplace Act.
- H. Public Act 96-1416 requires the Certification of Clean Construction and Demolition Debris (CCDD) and uncontaminated soil prior to disposal at a CCDD fill site. The Contractor for this project must comply with Public Act 96-1416 and be responsible for the certifications and any fees associated with the disposal at a CCDD fill site.
 1. In the event that contaminated soil is uncovered on the project, the Contractor must notify FRSA immediately. Any extra costs resulting from the presence of contaminated soil must be evaluated in accordance with FRSA General Provisions & Technical Specs for Sanitary Sewer Construction; General Conditions: Article 5 – Time Provisions and Article 8 – Changes.

2.2 Americans with Disabilities Act

The Contractor for this project will comply with all applicable requirements of the Americans with Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify Four Rivers Sanitation Authority (FRSA) and their representatives from all:

- A. suits, claims, or actions
- B. costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement
- C. damages of any kind (including but not limited to actual, punitive, and compensatory damages)
relating in any way to or arising out of the ADA, to which said firm is exposed or which it incurs in the execution of the Contract.

3 General Instructions

3.1 Bidder's Responsibility

Bidders are cautioned not to submit proposals until having carefully examined the entire site of the proposed work and adjacent premises and the various means of approach and access to the site, and having made all necessary investigations to inform themselves thoroughly as to the facilities for delivering, placing and handling the materials at the site, and having informed themselves thoroughly as to all difficulties involved in the completion of all the work under this Contract in accordance with its requirements.

Bidders must examine the Plans, Specifications and other Contract Documents and shall exercise their own judgment as to the nature and amount of the whole of the work to be done and for the bid prices must assume all risk of variance, by whomsoever made, in any computation or statement of amount or quantities necessary to complete fully the work in strict compliance with the Contract Documents. The Bidder must satisfy himself by making borings or test pits, or by such methods as he may prefer, as to the character and location of the materials to be encountered or work to be performed. No pleas of ignorance of conditions that exist or that may hereafter exist, or of conditions or difficulties that may be encountered in the execution of the work under this Contract, as a result of failure to make the necessary examinations and investigations, will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill, in every detail, all of the requirements of the Contract Documents, or will be accepted as a basis for any claims whatsoever for extra compensation or for an extension of time.

The Contractor is responsible for verifying the location of all existing utilities in the project areas.

The Bidder, therefore, shall satisfy himself by such means as he may deem proper as to the location of all structures that may be encountered in construction of the work.

3.2 Addenda and Interpretations

No interpretation of the meaning of the Plans, Specifications, or other Contract Documents will be made to any bidder orally. Every request for such interpretation must be in writing addressed to Four Rivers Sanitation Authority, 3501 Kishwaukee Street, Rockford, Illinois. To be given consideration, such request must be received at least five (5) days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda which, if issued, will be sent by email, fax, or certified mail with acknowledgement of receipt requested, to all prospective bidders, at the respective addresses furnished for such purposes, not later than three (3) days prior to the date

fixed for the opening of bids. Failure of any bidder to receive any such addenda or interpretation shall not relieve said bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

3.3 Laws and Regulations

The prospective bidder is warned that he must comply with all laws of the United States Government, State of Illinois, all ordinances and regulations of FRSA in the performance of the work under this Contract. The Bidder's attention is specifically called to that provision of the General Conditions regarding the rate of wage to be paid on the work.

3.4 Quantities Estimated Only

Bidders are warned that the estimate of quantities of the various items of work and materials, as set forth in the Proposal form, is approximate only and is given solely to be used as a uniform basis for the comparison of bids. The quantities actually required to complete the Contract work may be less or more than so estimated, and if awarded a contract for the work specified, the Contractor further agrees that he will not make any claim for damages or for loss of profits or for an extension of time because of a difference between the quantities of the various classes of work assumed for comparison of bids and quantities of work actually performed.

3.5 Form, Preparation, and Presentation of Proposals

For particulars as to the quantity and quality of the supplies, materials and equipment to be furnished, and the nature and extent of the work or labor to be done, prospective bidders are referred to the Contract Documents, which may be examined or obtained at the office of FRSA.

Each bid will be submitted upon the prescribed Proposal form. All blank spaces for bid prices must be filled in, in ink, with the unit or total sum or both for which the Proposal is made. If the Proposal contains any omissions, erasures, alterations, additions or items not called for in the itemized Proposal, or contains irregularities of any kind, such may constitute sufficient cause for rejection of bid. In case of any discrepancy in the unit price or amount bid for any item in the Proposal, the unit price as expressed in figures will govern. In no case is the agreement form to be filled out or signed by the bidder.

Bidders may opt to contact FRSA's Engineering Department at 815.387.7660 to obtain an electronic Proposal form. If used, this form must be attached to the hard copy Proposal form and appropriately signed and executed with the bid.

The bid must be verified and be presented on the prescribed form in a sealed envelope on or before the time and at the place stated in the Advertisement for Bids, endorsed with the name of the person, firm or corporation presenting it, the date of presentation, and the title of the work for which the bid is made. If forwarded by mail, the sealed envelope containing the Proposal and marked as directed above, must be enclosed in another envelope addressed to Clerk of the Four Rivers Sanitation Authority, 3501 Kishwaukee Street, Rockford, Illinois, 61109 and be sent preferably by certified mail. FRSA will not accept facsimile generated bids.

3.6 Bid Security

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount specified in Article One, Notice to Bidders. This sum is a

guarantee that, if the Proposal is accepted, a contract will be entered into and its performance properly secured. The FRSA's Bid Bond Form included in the bid packet must be used. No other Bid Bond form may be substituted.

Within ten (10) days after the award of the bid, the deposits of all but the three lowest bidders will be returned. The deposits of the remaining two unsuccessful bidders will be returned within three (3) days after the execution of the Contract, or, if no such Contract has been executed, within sixty (60) days after the date of opening bids. The deposit of the successful bidder will be returned only after he has duly executed the Contract and furnished the required bond and insurance.

3.7 Affidavit of Compliance

Each proposal must be accompanied by an executed Affidavit of Compliance. A separate Affidavit of Compliance form is enclosed with the Proposal packet. Failure to submit an executed Affidavit of Compliance with the Proposal may constitute sufficient cause for rejection of the bid.

3.8 Statement of Qualifications

Each Proposal must be accompanied by a Statement of Qualifications certifying that the bidder is registered to do business in the State of Illinois, has a permanent business office within forty (40) miles of the FRSA office at 3501 Kishwaukee Street in Rockford, IL, and provides documentation that the bidder possesses the appropriate financial, material, equipment, facility and personnel resources and expertise necessary to meet all contractual obligations. The bidder shall document no less than three (3) contracts for sanitary sewer system work within the past five (5) years having equal or greater value to the bid being submitted. FRSA reserves the right to request additional information, as needed, to evaluate bids prior to making an award.

3.9 Comparison of Proposals

Bids on item contracts will be compared on the basis of a total computed price arrived at by taking the sum of the estimated quantities of each item, multiplied by the corresponding unit prices and including any lump sum bids on individual items, in accordance with the estimate of quantities set forth in the Proposal form. Bids on lump sum contracts will be considered upon the basis of the lowest sum bid.

3.10 Acceptance of Bids and Basis of Award

The contract will be award, if at all, to the lowest responsive, responsible bidder. No bidder may withdraw his bid after the scheduled closing time for receipt of bids, for at least sixty (60) days. Four Rivers Sanitation Authority also reserves the right to reject any of all bids.

The bidder whose proposal is accepted will be notified of the Notice of Award issued by FRSA Executive Director. Within ten (10) days of issuance of a Notice of Award by the FRSA Executive Director, the successful bidder shall enter into a written contract for the performance of the Proposal work and shall furnish the required bonds and insurance certificates upon being served such Notice, personally, by mailing, or via email.

If the bidder does not comply with the Notice of Award, FRSA will issue a Deficiency Notice. If the bidder to whom the contract is awarded refuses or neglects to execute it or fails to furnish the required bond and insurance within five (5) days after receipt by him of Deficiency Notice,

the amount of his deposit shall be forfeited and shall be retained by FRSA as liquidated damage and not as a penalty. It being now agreed that said sum is a fair estimate of the amount of damages that FRSA will sustain in case said bidder fails to enter into a contract and furnish the required bond and insurance. No plea of mistake in the bid shall be available to the bidder for the recovery of his deposit or as a defense to any action based upon the neglect or refusal to execute a contract.

3.10.1 Evaluation of Responsiveness

The responsiveness of bidders will be judged on the basis of the completeness of the bid submitted. To be responsive, a Bid must be submitted on the forms provided as part of the Bid Documents and comply with all the requirements of the Instruction to Bidders.

3.10.2 Evaluation of Responsibility

To be judged as responsible, the bidder shall:

- A. Have adequate financial resources for performance, the necessary experience, organization, technical qualifications, and facilities, or a firm commitment to obtain such by subcontracts;
- B. Be able to comply with the required completion schedule for the project;
- C. Have a satisfactory record of integrity, judgment, and performance, including, in particular, any prior performance on contracts from FRSA;
- D. Have an adequate financial management system and audit procedures, that provide efficient and effective accountability and control of all property, funds, and assets;
- E. Conform to the civil rights, equal employment opportunity and labor law requirements of the Bid Documents.
- F. Have satisfactorily completed no less than three (3) sanitary sewer system repair contracts within the past five (5) years of equal or greater value to the bid being submitted.

3.11 The Rejection of Bids

FRSA reserves the right to reject any bid if the evidence submitted in the statement of the bidder's qualifications, or if investigation of such bidder fails to satisfy FRSA that such bidder is properly qualified to carry out the obligations and to complete the work contemplated therein. Any or all proposals will be rejected if there is reason to believe that collusion exists among the bidders. Conditional bids will not be accepted. FRSA reserves the right to reject any and all bids and to accept the bid which they deem most favorable to the interest of FRSA after all Proposals have been examined and canvassed.

3.12 Insurance and Bonding

Contractor shall provide all necessary insurance and bonds required to complete the project. No more than ten (10) calendar days subsequent to FRSA's issuance of an award letter, the Contractor shall provide documentation to prove that he has obtained all required insurance and bonds. FRSA shall be the sole judge as to the acceptability of any such proof.

Contractor shall provide and maintain all insurance and bonds as required by FRSA.

3.12.1 General

The Contractor shall ensure that:

- A. All insurance policies shall be specific to the project.
- B. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for North Avenue and Napoleon Street, Capital Project No. 2564.
- C. FRSA shall be named as Additional Insured in all policies; this shall include the Owners' Contractors' Protective Policy option.
- D. All completed operations coverages and bonds shall remain in force for a period of two (2) years following acceptance of the Project and completed operations shall stay in force for two (2) years following completion of the Project.

3.12.2 Insurance

The Contractor shall, for the duration of the Contract and for two (2) years following project acceptance, maintain the following:

- A. General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit. The Contractor shall provide "XCU" coverage.
- B. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage including coverages for owned, hired or non--owned vehicles, as applicable.
- C. Workers' Compensation and Employers Liability: Workers' Compensation limits as required by statute and Employers Liability limits of \$500,000 per accident and \$500,000 per disease.
- D. Umbrella: \$2,000,000 per occurrence/aggregate for contracts valued at \$500,000 or over, or \$1,000,000 for contracts below \$500,000. \$10,000 is maximum allowable self-retained limit.
- E. Errors and Omissions: If the Contractor performs professional services, he shall maintain errors and omissions insurance with a limit no lower than \$1,000,000 for the duration of the contract.

The policies shall contain, or be endorsed to contain, the following provisions in the General Liability and Automobile Liability Coverage's:

1. Unless otherwise provided in paragraph "c" of this section, FRSA, its officers, officials, employees and volunteers shall be covered as additional insureds as respects liability arising out of activities performed by or on insured's general supervision of the Contractor, products and completed operations of the Contractor, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to FRSA, its officers, officials, employees, volunteers, or agents.

2. Unless otherwise provided in paragraph "c" of this section, the Contractor's insurance coverage shall be primary insurance as respects FRSA, its officers, officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by FRSA, its officers, officials, employees, volunteers, or agents shall be excess of the Contractor's insurance and shall not contribute with it.
3. As an acceptable alternative to provisions "a" and "b" of this section, the Contractor may provide owner's and contractor's protective liability insurance with coverage limits, named insureds, and in conformity with all applicable specifications of this section.
4. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to FRSA, its officers, officials, employees, volunteers, or agents.
5. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
6. All Coverages — Each insurance policy required by this clause shall not be suspended, voided, canceled by either party, reduced in coverage, or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to FRSA.

3.12.3 Best's Ratings

FRSA shall be the sole judge of whether or not said insurer's ratios are satisfactory. FRSA 's decision shall be final and FRSA 's bidding procedures contain no appeal provision.

- A. Alphabetical Rating: For purposes of this Request for Bids, "insurer" shall mean any surety, insurance carrier, or other organization which proposes to provide an insurance policy or bond for the Contractor. No insurer or surety rated lower than "A-, Excellent" in the current *Best's Key Rating Guide* shall be acceptable to FRSA.
- B. Financial Size Rating: Provided an insurer's alphabetical rating is satisfactory, FRSA will examine said insurer's financial size rating.
 1. If Best classifies the insurer XII or larger, said insurer shall be acceptable to FRSA.
 2. If Best classifies the insurer as smaller than XII, but larger than VI, said insurer shall be submitted to FRSA's Director of Management Services and/or FRSA's insurance consultant for review.

Financial Size ratings less than VII are not acceptable and will disqualify the Contractor.

3.12.4 Performance Bond and Labor & Materials Payment Bond Form

The Contractor shall provide a Performance Bond and Labor & Materials Payment Bond form acceptable to FRSA. The performance bond shall be for either 100% of the contract price or for the Contractor's unit price times the estimated number of units, as applicable.

This Request for Bids contains a Performance Bond and a Labor & Material Bond form for the Contractor's use.

If the Contractor fails to provide acceptable bonds within the specified time, he shall be in default.

3.12.5 Correction of Contractor's Insurance or Bond Deficiencies

If FRSA determines that the Contractor's insurance or bond documentation does not conform to these specifications, FRSA shall inform said Contractor of the non-conformity. If said Contractor fails to provide conforming insurance or bond documentation within five (5) calendar days of FRSA's deficiency notice, he shall be in default.

3.12.6 Indemnification Clause

Contractor shall protect, indemnify, hold and save harmless and defend FRSA, its officers, officials, employees, volunteers, and agents against any and all claims, costs, causes, actions and expenses, including but not limited to attorney's fees incurred by reason of a lawsuit or claim for compensation arising in favor of any person, including the employees, officers, independent contractors, or subcontractors of the Contractor or FRSA, on account of personal injuries or death, or damages to property occurring, growing out of, incident to, or resulting directly or indirectly from the performance by the Contractor or subcontractor, whether such loss, damage, injury or liability is contributed to by the negligence of FRSA or by premises themselves or any equipment thereon whether latent or patent, or from other causes whatsoever, except that the successful bidder shall have no liability for damages or the costs incident thereto caused by the sole negligence of FRSA.

The indemnification shall not be limited by a limitation on amount or type of damages payable by or for the Contractor or its subcontractor under any employee benefits act including, but not limited, to the Workers Compensation Act.

No inspection by FRSA, its employees, or agents shall be deemed a waiver by FRSA of full compliance with the requirements of the Contract. This indemnification shall not be limited by the required minimum insurance coverages in the Contract.

3.13 Tax Exemption

FRSA is exempt, by law, from paying bidder Federal Excise Tax and Illinois Retailers' Occupational Tax. Therefore, the bidder shall exclude those taxes from his bid. FRSA's tax exemption number is E9992-3696-06. The bidder shall include all other applicable taxes in his bid price.

Article 3 – Detailed Specifications

1 General

This article contains detailed specifications relating to Proposal items. The work to be done under each item is discussed along with units for payment and measurement for payment. However, the descriptions given do not necessarily outline all the work to be done under any item. In addition, work shall conform to the following *Technical Specifications: Standard Specifications for Water and Sewer Main Construction in Illinois*, current edition, and *FRSA General Provisions and Technical Specifications for Sanitary Sewer Construction*. When referenced, work shall conform to the *Illinois Department of Transportation's (IDOT) Standard Specifications for Road and Bridge Construction*, current edition.

Throughout these specifications, the term “Owner,” “Engineer,” and “FRSA” shall be synonymous.

In case of apparent contradictions between Section I, Article 3 – Detailed Specifications, IDOT Standard Specifications, and General Provisions and Technical Specifications for Sanitary Sewer Construction, Section I, Article 3 - Detailed Specifications shall govern.

Utility locations shown on the plans are based on the information obtained at the time of design and are not guaranteed. The orientation and location (horizontal and vertical) of all existing underground utilities, such as gas mains, water mains, electric lines, field tiles, irrigation pipes, etc., shall be ascertained by the Contractor. The Contractor shall assume full responsibility for the location of all utilities.

The general location of the proposed sewer is governed by existing field conditions. Minor variations in alignments may be made to facilitate construction operations with prior FRSA approval.

Any construction not supervised by a FRSA Inspector may be considered ineligible for payment.

No work shall be permitted on Sundays or FRSA Holidays without prior approval by FRSA Director of Engineering.

Suppliers shall implicitly warrant that their products and product components are suitable and appropriate for the intended use and that they are free from all material, design, or workmanship defects. Said warranty shall insure to the benefit of FRSA. The foregoing shall apply to all products and product components, whether constructed as directed by the Contract documents or produced by an outside source.

FRSA will not supervise, direct, control, have authority over or be responsible for the Contractor's means, methods, techniques, sequences, procedures of construction, safety precautions and programs incident thereto, or for any failure by the Contractor to comply with all applicable laws and regulations in performance of the specified work. FRSA will not be responsible for the Contractor's failure to perform or furnish the work in accordance with the Contract documents.

As determined by FRSA or governing roadway authority, any appurtenances or property damaged within or adjacent to public Rights-of-Way or private easements, whether through Contractor negligence or as a result of construction, shall be repaired or replaced by the Contractor to the satisfaction of FRSA and roadway authority at no additional cost.

2 Notification, Access, and Special Considerations

2.1 General

Utility locations shown on the plans are based on record information and are not guaranteed. The location and/or elevation of existing underground utilities, such as gas mains, watermains, electric lines, storm sewers, field tiles, septic system field lines, etc., shall be determined by the Contractor. The Contractor shall assume full responsibility for all utility locations. The Contractor shall notify all utilities seventy-two (72) hours minimum prior to beginning any work by contacting JULIE at 800-892-0123 and all other utilities not on the JULIE network. All underground utilities shall be located in the field by the utility or duly authorized representative. The Contractor shall exercise special care when excavating near underground and overhead utilities to avoid damage. Damaged utilities shall be repaired or replaced to the satisfaction of the Utility owner at the Contractor's sole expense. The Contractor shall be solely responsible for the protection, restraint and support of all utilities.

The Contractor shall notify FRSA, all affected property owners and the City of Rockford Public Works Department Engineering Division seven (7) calendar days, minimum, prior to beginning any work. Said notification shall apply to business days only, not weekends.

All construction on or near driveways shall be coordinated in advance with the individual property owners to ensure that construction operations will have minimal impact on residential accesses. The Contractor shall be responsible for the temporary maintenance of all roadways, driveways, and driveway entrances for the duration of construction (i.e. drives, roadways, ramps, etc., must remain open to vehicular traffic; temporary accesses must be provided, as necessary). All materials, equipment, labor, etc., needed to ensure this shall be included in the various Contract unit prices.

The Contractor shall coordinate all traffic control with the City of Rockford Public Works Department Engineering Division. The roads shall remain open to local traffic as feasible; if a short term full closure is necessary then temporary detours shall be installed for the guidance of local traffic. Any detour signage or additional traffic control appurtenances required by the roadway authority shall be included in the ***Traffic Control and Protection, Special*** pay item and no additional compensation will be considered.

Unless separately and specifically approved by the City of Rockford Public Works Department Engineering Division, the Contractor shall conduct all operations in accordance with the City's Construction Noise Ordinance (which bans usage of hammers and power-operated tools for construction purposes between the hours of 10:00 PM and 7:00 AM within 600' of any residential building).

Any damage caused by the Contractor's operations to areas outside of the various project removal items and Right-of-Way limits, including but not limited to roadway pavements, driveway pavements, drainage structures, storm sewer, underground utilities, overhead utilities, turf areas, and landscaped areas shall be repaired and/or replaced by the Contractor at no additional cost.

The Contractor shall clean up areas from which spoil has been removed at the end of each day by sweeping, washing or other approved methods. The Contractor shall keep the road Right-of-Way free from all dirt and construction debris at all times during construction. Any open excavations shall be protected by temporary construction fence at the completion of work each day; this construction fence shall be considered included in the various pay items included herein and no additional compensation shall be considered for protections of open excavations.

The Contractor is responsible for any damages caused by his operations to existing structures above or below the ground as covered in G.C. 12:1 of FRSA's General Provisions and Technical Specifications for Sanitary Sewer Construction.

The Contractor shall temporarily relocate any mailbox affected by construction and work with United States Postal Service (USPS) officials to provide uninterrupted and accessible mail service. The Contractor shall reinstall mailboxes and turnouts to their original positions (or alternate approved location per the USPS). With approval from the USPS and the City of Rockford the Contractor may install temporary mailboxes should construction operations impact the uninterrupted mail service. All costs associated with mailbox relocation, reinstallation, and/or temporary facilities shall be considered included in the various pay items and no additional compensation shall be awarded.

It shall be the Contractor's responsibility to secure any additional temporary or permanent access, storage or construction easements deemed necessary from property owners prior to performing the work as shown on the plans and outlined in the specifications.

The Contractor shall not damage, disturb, remove or otherwise eliminate any survey monument, monument tie, lot pin, Right-of-Way marker, etc., until the exact locations have been recorded by a Professional Land Surveyor currently licensed in the State of Illinois. The Contractor shall enlist the services of a registered Illinois Professional Land Surveyor to locate, document and restore/reset any and all monuments damaged or disturbed as a result of construction. No separate payment will be made for this work.

The Contractor shall provide, and have available on site at all times, a calibrated level and rod.

All of the following parties shall be notified at least seven (7) calendar days (minimum) prior to beginning any work:

1. All affected property owners
2. FRSA Engineering Department (815-387-7660)
3. City of Rockford Public Works Department Engineering Division (779-348-7300)

2.2 Whitman Street Reconstruction Project

The City of Rockford Whitman Street Reconstruction project will occur concurrently with the North Avenue and Napolean Street project. Residences located on Ridge Avenue between Whitman Street and North Avenue will only have access through the Ridge Avenue and North Avenue intersection throughout the Whitman Street Reconstruction project. Construction shall be staged to maintain access for Ridge Avenue residences. Coordinate traffic control by contacting the City of Rockford Public Works Department Engineering Division (779-348-7300).

2.3 Required Submittals

Not used.

2.4 Measurement and Payment

No payment shall be made for the work included in this provision. The cost of this work shall be included in the various pay items of this contract.

3 Permit Requirements

3.1 Description

All work within public Right-of-Ways shall be subject to the regulations and requirements of the City of Rockford. Should conflicts or contradictions arise between the plans, specifications, and Right-of-Way permits, the permits shall govern.

The Contractor shall be responsible for obtaining a City of Rockford Right-of-Way Permit (included in this Contract in Section IV) prior to starting work and for securing all bonds, insurance, and paying all fees required for this permit. Right-of-Way Permit applications shall be coordinated with the City of Rockford Public Works Department Engineering Division (779-348-7300). A copy of the approved permit shall be provided to FRSA prior to the start of construction, and the Contractor shall comply with all provisions of the approved permit.

The total disturbed area for this project is estimated to be 0.78 acres therefore no National Pollutant Discharge Elimination System (NPDES) permit is required.

3.2 Required Submittals

1. Project Schedule
2. Copies of Signed Permits

3.3 Basis of Payment

No payment shall be made for the work included in this provision. The cost of this work shall be included in the various pay items of this contract.

4 Dewatering

4.1 General

Contractor shall use all means at his disposal to maintain dry trenches to the satisfaction of FRSA.

If dewatering is required, well point permits must be obtained from the Winnebago County Health Department (WCHD). Well point installation, maintenance, operation and removal shall be per WCHD requirements. The WCHD shall be notified prior to well placement and removal.

Groundwater will not be allowed to be pumped on existing ground surfaces or pavements where it may cause a traffic nuisance, or into existing sanitary sewers; it shall be discharged at points acceptable to FRSA, with all erosion control requirements and specifications taken into consideration.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be the Contractor's responsibility to provide any bonds, insurance, guarantees, etc., as required by said permits. Abandonment of dewatering facilities shall be performed in accordance with pertinent State and County requirements. If generators are required on a twenty-four (24) hour basis, the noise level shall be restricted to a level of 90 decibels or less. Approval to operate generators on a twenty-four (24) hour basis shall be obtained from the City of Rockford prior to implementation.

If trench dewatering becomes necessary, the Contractor shall exercise caution to avoid any detrimental impact to area wells. The Contractor shall be responsible for maintaining adequate water service to all residents and shall be solely liable for any wells that become dry as a result of construction.

4.2 Required Submittals

1. Copy of permits, as applicable.

4.3 Payment

No payment shall be made for the work included in this provision. The cost of this work shall be included in the various pay items of this contract.

5 Aggregate Base Course, Type B

5.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 351 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to install compacted aggregate base course as shown on the plans.

This work shall include subgrade preparation, removal and disposal of excess materials, furnishing, placing, installing and compacting coarse aggregate, and trimming and prepping aggregate base course for subsequent pavement placement.

Aggregate base course shall be installed to the lines, grades, and depths shown on the plans.

5.2 Materials

Coarse aggregate:

1. Where a 12-inch course is specified, the bottom 6 inches shall be IDOT gradation CA 2, while the upper 6 inches shall be IDOT gradation CA 6.
2. Where an 8-inch course is specified, the entire thickness shall be IDOT gradation CA 6.
3. Where a 4-inch course is specified, the entire thickness shall be IDOT gradation CA 6.
4. Coarse aggregates shall be in accordance with Article 1004.04 of the IDOT Standard Specifications for Road and Bridge Construction, current edition. Crushed concrete materials approved by IDOT and in accordance with Article 1004.04 may be used.

5.3 Required Submittals

1. Material gradation certificates for coarse aggregate.

5.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard (SQ YD) for *Aggregate Base Course, Type B 4"*, *Aggregate Base Course, Type B 8"* and *Aggregate Base Course, Type B 12."*

6 Manhole and Valve Vault Adjustment

6.1 Description

This section does not apply to FRSA sanitary manholes to be adjusted. See Article 3, Section 21.

This work shall conform to FRSA requirements, details, and provisions, and Section 602 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to adjust manholes and valve vaults as shown on the plans.

The following IDOT highway standards shall be used:

1. For Manholes or Valve Vaults To Be Adjusted w/ New Frame & Lid: 604001
2. For Manholes, Type A, 4' Dia.: 602401, 602601, 602701, 604001
3. For Manholes, Type A, 5' Dia.: 602402, 602601, 602701, 604001
4. For Manholes, Type A, 6' Dia.: 602406, 602601, 602701, 604001
5. For Manholes, Type A, 7' Dia.: 602411, 602601, 602701, 604001
6. For Manholes, Type A, 8' Dia.: 602416, 602601, 602701, 604001
7. For Manholes, Type A, 9' Dia.: 602421, 602601, 602701, 604001

8. For Manholes, Type A, 10' Dia.: 602426, 602601, 602701, 604001

Adjustment shall consist of removing existing manhole and valve vault frames and lids, removing all brick/precast adjusting rings and all other materials, furnishing and installing new adjusting rings as required, and reinstalling the existing frames and lids as specified.

This work shall include adjusting manhole and valve vault frames to finish grade. The frame and lid shall be set 1/4-inch min. to 3/8-inch max. below final grade in pavement and at final grade in turf areas. Frames in the roadway shall be pitched to match the slope of pavement. All proposed rim elevations shall be obtained from the roadway reconstruction plan and profile plan sheets.

This work shall include all earth excavation, trench backfill and compaction, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

6.2 Materials

1. All materials shall be per Article 602.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.
2. Solid lids shall have the following lettering, as specified by the type of manhole being adjusted: "ELECTRIC," "STORM," "WATER," or as otherwise directed by the Engineer.

6.3 Required Submittals

1. Manhole adjustment ring material specifications.
2. Manhole adjustment ring sealant material specifications.

6.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per each (EACH) for *Manholes To Be Adjusted* and *Valve Vaults To Be Adjusted*.

7 Class B Patches

7.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 442 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to construct Class B patches as shown on the plans. Patch depths shall match existing thickness or at a minimum consist of a 10" thickness.

The following IDOT highway standards shall be used: 442101

This work shall include pavement removal, excavation and preparation, and replacement patching.

Quality control and quality assurance testing shall be according to IDOT Check Sheet #23 *Special Provision for Quality Control/Quality Assurance of Concrete Mixtures*, revised January 1, 2022 of the *IDOT Supplemental Specifications and Recurring Special*

Provisions, adopted January 1, 2025. All material testing and costs associated with conformance with this Check Sheet shall be included in this pay item and will not be paid for separately.

This work shall include furnishing, maintaining, and removing a suitable concrete wash-out container. Concrete shall not be placed until this container is available for use.

7.2 Materials

1. Materials shall be in accordance with Article 442.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Class PP-4 or PP-5 concrete, per Article 1020.04, shall be used.

7.3 Required Submittals

1. PCC mix designs.

7.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard (SQ YD) for *Class B Patches, Type IV, 10.*"

8 Combination Concrete Curb & Gutter

8.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 606 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to construct combination concrete curb & gutter and/or low flow concrete gutter as shown on the plans.

The following details and standards shall be used:

For Type M6.18 (Modified)

City of Rockford Combination Concrete Curb & Gutter, Type M6.18 Modified

For all other types:

IDOT highway standard 606001

Curb and gutter shall include 'tip-out' and 'depressed' sections at the locations indicated in the plans and as directed by the Engineer. For payment purposes, no separate distinction will be made for standard, tip-out, or depressed curb and gutter.

Where proposed curb is to be joined to existing curb, two (2) one inch (1") diameter smooth dowels 18" inches long shall be drilled and epoxy grouted into the existing curb and gutter at mid-depth.

Quality control and quality assurance testing shall be according to IDOT Check Sheet #23 *Special Provision for Quality Control/Quality Assurance of Concrete Mixtures*, revised January 1, 2022 of the *IDOT Supplemental Specifications and Recurring Special Provisions*, adopted January 1, 2025. All material testing and costs associated with

conformance with this Check Sheet shall be included in this pay item and will not be paid for separately.

This work shall include furnishing, maintaining, and removing a suitable concrete wash-out container. Concrete shall not be placed until this container is available for use.

8.2 Materials

1. All materials shall be per Article 606.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Class SI concrete, per Article 1020.04, shall be used.

8.3 Required Submittals

1. PCC mix designs.

8.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for ***Combination Concrete Curb & Gutter, Ty. M6.18 (Modified)***.

9 Connect To Existing Sanitary Manhole

9.1 Description

This work shall conform to FRSA requirements, details, and provisions. This work shall consist of furnishing all materials, connection to existing sanitary sewers, equipment, tools, transportation, excavation, dewatering, bypass pumping, trench backfill, services and performance of all operations required to connect sanitary sewer to existing sanitary sewer manholes of various diameter, size, and material as shown on the plans.

This work shall be in accordance with the FRSA Standard Detail Sheet.

Manhole Connections:

The Contractor shall field verify all materials, sizes, and elevations of all existing pipes to be connected.

Pipe connections to existing precast concrete manholes shall be made by means of core drilling the appropriate size hole and installing a watertight flexible pipe to manhole connector.

Pipe connections to existing block or brick manholes shall be made by means of removing block or brick to create a hole slightly larger than the pipe, and installing a watertight pipe gasket and hydraulic cement.

This work shall include modifying the existing manhole bench as needed or directed. All loose material in the bottom of the manhole shall be removed and disposed of. The manhole bottom shall be reconstructed to facilitate an unobstructed flow line from all incoming pipes to the outlet pipe. This work may involve removing portions or all of the existing manhole bench down to the flow line, by means of pneumatic, electric, or hand chipping hammer, concrete saw, or other means as approved by the FRSA. The manhole bench shall be rebuilt with Class B concrete containing a small sized aggregate and/or with

hydraulic cement and shall be finished for a smooth flow line and curved radius. The existing bench/bottom shall be roughened and cleaned prior to the installation of new cement materials. This work shall include bypass pumping as required. The bypass pumping shall not be removed from operation until the reconstructed bench materials have sufficiently cured.

9.2 Materials

1. Flexible pipe to manhole connectors shall meet the requirements of ASTM C923. Integrally cast and expandable gaskets are acceptable.
2. Hydraulic cement shall meet the requirements of ASTM C109.

9.3 Required Submittals

1. Pipe to manhole connector specifications.
2. Hydraulic cement specifications.
3. PCC mix designs.

9.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price each (EACH) for *Connect To Existing Sanitary Manhole*.

10 Construction Layout

10.1 Description

This work shall be in accordance with IDOT Check Sheet #9 *Construction Layout Stakes*, revised January 1, 2022 of the *IDOT Supplemental Specifications and Recurring Special Provisions*, adopted January 1, 2025, as included in this Contract, except as modified herein, and shall consist of the Contractor providing all layout for the construction of this project to the lines and grades as shown on the plans.

The Engineer shall perform layout checks periodically, and specifically before any PCC pavement, curb and gutter, and HMA paving is performed. The Contractor shall set sufficient stakes as are necessary for the Engineer to determine that the work is in conformance with the lines and grades shown on the plans. The Engineer may request construction layout stakes in addition to the Contractor's layout at any time.

10.2 Basis of Payment

Payment for this work shall be paid for at the contract unit price per lump sum (L SUM) for *Construction Layout*.

11 Combination Curb & Gutter Removal

11.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 440 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to completely remove and properly dispose of concrete curb, concrete gutter, or combination concrete curb & gutter as shown on the plans.

Removal limits shall be sawcut full depth prior to removing curb & gutter.

11.2 Basis of Payment

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for *Combination Curb & Gutter Removal*.

12 Hot-Mix Asphalt Binder Course

12.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 406 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to construct hot-mix asphalt pavements as shown on the plans.

Prime coat shall be MC-30 or PEP bituminous materials applied in accordance with article 406.05 (b) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. The curing period shall not be less than 24 hours for MC-30 or 4 hours for PEP. All costs associated with placement of prime coat shall be included in this item and will not be paid for separately.

12.2 Materials

1. Hot-mix asphalt shall be mixture IL-19.0 N50 in accordance with Section 1030 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.
2. Prime coat shall be MC-30 or PEP in accordance with Section 406.05 (b) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

12.3 Required Submittals

1. HMA mix designs.
2. Prime coat material certifications.

12.4 Method of Measurement

This work will be measured for payment according to Article 406.13 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

12.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per ton (TON) for *Hot-Mix Asphalt Binder Course, IL-19.0, N50*.

13 Hot-Mix Asphalt Surface Course

13.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 406 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to construct hot-mix asphalt pavements as shown on the plans.

Tack coat shall be SS-1 bituminous materials applied in accordance with article 406.05 (c) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Tack coat shall be fully cured prior to placement of subsequent HM A courses. All costs associated with placement of tack coat shall be included in this item and will not be paid for separately.

13.2 Materials

1. Hot-mix asphalt shall be mixture IL-9.5 Mix 'D', N50 in accordance with Section 1030 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.
2. Tack coat shall be SS-1 in accordance with Section 406.05 (c) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

13.3 Required Submittals

1. HM A mix designs.
2. Tack coat material certifications.

13.4 Method of Measurement

This work will be measured for payment according to Article 406.13 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Surface course mixture in excess of 103% of the adjusted plan quantity will not be measured for payment. The adjusted plan quantity for surface course mixtures will be calculated according to Article 406.13 (b) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

13.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per ton (TON) for ***Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D," N50.***

14 Fence Removal & Reinstallation

14.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 664 & 665 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to remove and replace 4-foot high chain link fence as shown on the plans.

This work shall consist of the complete removal and replacement of fences, posts, post foundations, chain link fabric, woven wire fabric, and all other related materials and appurtenances. Replacement materials shall be of the same type and size as the original. The existing fence at 921 North Avenue and 922 North Avenue is a 4-foot high chain link fence. Existing materials in good condition and free from damage can be salvaged and used as replacement materials at the discretion of the Engineer.

14.2 Basis of Payment

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for *Fence Removal & Reinstallation*.

15 Inlet Filters

15.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 280 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship for inlet filters as shown on the plans.

This work shall be in accordance with the Illinois Urban Manual IUM-561D detail.

This work shall include the furnishing, installation, maintenance, and removal of inlet filters. All required inlet filters shall be installed prior to any excavation taking place.

Any additional inlet filters not shown on the plans that are required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA. The Contractor shall remove and dispose of all inlet filters within 30 days of final site stabilization and approval by the FRSA.

15.2 Materials

1. Inlet filters shall be in accordance with Article 1081.15(h) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition* and the appropriate detail included in the plans.

15.3 Required Submittals

1. Material certifications for inlet filter products.

15.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price each (EACH) for *Inlet Filters*.

16 Mulch

16.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 251 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

This work shall include all equipment, materials, labor, transportation, and workmanship to apply mulch as shown on the plans.

Mulch method 2 shall utilize Procedure 2 for stabilization.

16.2 Materials

1. Mulch material shall be in accordance with Article 251.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

16.3 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard (SQ YD) for ***Mulch, Method 2***.

17 Pavement Removal & Driveway Pavement Removal

17.1 Description:

This work shall conform to FRSA requirements, details, and provisions, and Sections 440 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work includes the complete removal and disposal of existing pavement sections of various depths and materials, including concrete and asphalt, where indicated on the plans.

Maximum pay limits for pavement removal are shown on the plans and will be used to determine quantities for payment. Any damage to pavements beyond the removal limits shall be replaced full depth at no additional cost to the FRSA.

The pavement limits shall be sawcut full depth prior to removal. The remaining pavement edges shall be protected from damage. All costs associated with sawcutting and pavement protection shall be included in this item.

17.2 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard (SQ YD) for ***Pavement Removal*** and ***Driveway Pavement Removal***.

18 Portland Cement Concrete Driveway Pavement

18.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 423 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to construct concrete driveway pavement as shown on the plans. Driveway pavement shall match existing thickness or at a minimum consist of a 6" thickness.

Quality control and quality assurance testing shall be according to IDOT Check Sheet #23 *Special Provision for Quality Control/Quality Assurance of Concrete Mixtures*, revised January 1, 2022 of the *IDOT Supplemental Specifications and Recurring Special Provisions*, adopted January 1, 2025. All material testing and costs associated with

conformance with this Check Sheet shall be included in this pay item and will not be paid for separately.

This work shall include furnishing, maintaining, and removing a suitable concrete wash-out container. Concrete shall not be placed until this container is available for use.

18.2 Materials

1. All materials shall be per Article 423.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Class PV concrete, per Article 1020.04, shall be used.

18.3 Required Submittals

1. PCC mix designs.

18.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard (SQ YD) for *Portland Cement Concrete Driveway Pavement, 6"*.

19 Portland Cement Concrete Sidewalk

19.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 424 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to construct 4-inch concrete sidewalk as shown on the plans.

The following IDOT highway standards shall be used:

424001, 424006, 424011, 424016, 424021, 424026, 424031

This work shall include preparing subgrade and installing and compacting a 4-inch aggregate base course, which shall be included in this item.

All sidewalks to be installed shall conform to all applicable laws and regulations including, but not limited to, most current PROWAG and ADA requirements. The Contractor shall be knowledgeable of PROWAG and ADA requirements and shall provide assistance to the Engineer in the design of all sidewalk installations at no additional cost to the FRSA. Assistance may include, but is not limited to, field assistance in measuring sidewalk grades, staking and layout of curb ramps, verification of PROWAG and ADA compliance and final grade checks of formwork prior to the placement of concrete material. Sidewalk shall match existing thickness or at a minimum consist of a 4" thickness.

Sidewalk shall be thickened to 6" through driveway and alley approaches and shall be reinforced with welded wire fabric reinforcing steel equal or greater to 6"x6" D8.0/D8.0. The additional labor and materials required when placing sidewalk through driveways and alleys shall be considered incidental to this item.

Quality control and quality assurance testing shall be according to IDOT Check Sheet #23 *Special Provision for Quality Control/Quality Assurance of Concrete Mixtures*, revised

January 1, 2022 of the *IDOT Supplemental Specifications and Recurring Special Provisions*, adopted January 1, 2025. All material testing and costs associated with conformance with this Check Sheet shall be included in this pay item and will not be paid for separately.

This work shall include furnishing, maintaining, and removing a suitable concrete wash-out container. Concrete shall not be placed until this container is available for use.

19.2 Materials

1. All materials shall be per Article 424.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Class SI concrete, per Article 1020.04, shall be used.
2. Aggregate base course for sidewalks shall be IDOT gradation CA-06.

19.3 Required Submittals

1. PCC mix designs.
2. Material gradation certificates for aggregate.

19.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square foot (SQ FT) for *Portland Cement Concrete Sidewalk, 4"*.

20 Rock Excavation For Sanitary Sewer

20.1 Description

This work shall conform to FRSA requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to excavate, remove, and dispose of rock for the installation of sanitary sewer related items as shown on the plans.

The Contractor shall demonstrate by all possible standard methods, to the Engineer, that the material encountered while excavating within the lines and grades shown on the plans and the payable width as described in T.S. 2:2 (c) of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford* is not removable with conventional sewer excavation equipment before being classified as rock excavation.

Blasting will not be allowed on this project. Contractor shall monitor vibrations of rock removal efforts and shall assume full responsibility for any claims of damage to adjacent structures (within 100' of trench).

The maximum trench width pay limit shall not exceed the outside diameter of the pipe (excluding pipe bell) plus eighteen inches (18") for pipe 8"-24" in diameter, or outside diameter of the pipe (excluding pipe bell) plus twenty-four inches (24") for pipe greater than twenty-four inches (24") in diameter.

The maximum trench width pay limit therefore shall be as follows:

Nominal Pipe Diameter	Max. Trench Width Pay Limit (Feet)	Nominal Pipe Diameter	Max. Trench Width Pay Limit (Feet)
8	2.22	18	3.13
10	2.40	20	3.30
12	2.56	24	3.65
14	2.78	30	4.67
16	2.95	36	5.19

The maximum pay depth shall be 6 inches below the pipe invert.

The following criteria will be used to facilitate in the determination of whether or not the excavation will be considered rock excavation:

1. Reference to T.S. 2:3 / Rock Excavation of the *General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford*.
2. Substantial reduction in production rate
3. Visual evidence of large boulders, rock, granite, trap quartzite, chert, limestone, hard sand stone, hard shale or slate, or other hard materials, in natural ledges or displaced masses which cannot be removed by a modern backhoe without resorting to the continuous use of pneumatic tools, blasting, barring or wedging for removal from their original beds.

The determination of what qualifies as legitimate rock excavation shall be made by the FRSA Inspector and shall not be limited to the above-mentioned criteria.

20.2 Method of Measurement

This work shall be measured by the Engineer based on the length and depth of material encountered in the field and a maximum payable width as described in these specifications. **No payment shall be made for rock excavation beyond these limits.**

20.3 Basis of Payment

Payment for this work shall be paid for at the contract unit price per cubic yard (CU YD) for *Rock Excavation for Sanitary Sewer*.

21 Sanitary Manholes To Be Adjusted With New Frame, Closed Lid

21.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 602 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to adjust sanitary manholes as shown on the plans.

This work shall be in accordance with the FRSA Standard Detail Sheet.

This work shall consist of removing existing manhole frames and lids, removing all brick/precast adjusting rings and all other materials, furnishing and installing new adjusting rings as required, furnishing and installing new frames and lids and exterior manhole adjustment seals.

This work shall include all earth excavation, trench backfill and compaction, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

This work shall include adjusting manhole frames to finish grade. The frame and lid shall be set 1/4-inch min. to 3/8-inch max. below final grade in pavement and at final grade in turf areas. All proposed rim elevations shall be obtained from the roadway reconstruction plan and profile plan sheets or from the Resident Engineer.

This work shall include the removal of all existing adjustment (whether brick or concrete), and replacement with new adjusting rings. The combination of new adjusting rings shall be such that the minimum number of rings possible are used.

Allowable types of adjusting rings include precast concrete and expanded polypropylene (EPP). These can be used in conjunction with each other, except that a precast concrete ring shall not be placed over an EPP ring.

For precast concrete adjusting rings:

All adjusting ring joints, as well as the joint between the frame and adjustment ring, shall be sealed watertight by means of an all-weather rubber butyl sealant designed for the purpose of sealing concrete structures water-tight. The adjusting ring surface shall be dry and free of foreign material. The surface shall be dried and heated with a weed burner when outside temperatures are less than optimum for adhesion of the sealant to the concrete.

Frames in the roadway shall be pitched to match the slope of pavement. EPP taper rings are required when frames are pitched.

For expanded polypropylene (EPP) adjusting rings:

The use of EPP adjustment rings shall be according to Sections 602 and 1043 of the *IDOT Standard Specifications, and Supplemental Specifications & Recurring Special Provisions, most recent editions*. The EPP adjustment rings shall be installed according to the manufacturer's instructions. If the top surface of the manhole is not level, even, or is irregular, a non-shrink grout shall be placed to create a level surface and the first EPP ring shall be bedded and leveled in the non-shrink grout. The joints between the manhole, all adjustment rings, and the frame shall be sealed with the manufacturer's recommended/specified adhesive. The top ring shall be a 'finish ring' when pitching the frame is not necessary.

Frames in the roadway shall be pitched to match the slope of pavement. The top ring shall be a tapered 'adjustment' ring when pitching the frame is required. Shimming is not an acceptable method of pitching when using EPP rings. The upper most ring shall have grooves on the lower surface and a flat upper surface.

External adjustment seals are required, regardless of the type of adjustment rings used. Heat shrinkable adjustment seals shall not be used with EPP rings.

The maximum height of adjustment shall be 12 inches. The distance between the top of the frame to the first manhole step shall be no more than 30 inches. A maximum of one (1) 2 inch adjusting ring will be allowed.

The Contractor shall install an FRSA approved exterior adjustment seal on all manholes as shown on the FRSA Standard Detail sheet.

21.2 Materials

1. Adjusting rings:
 - a. Precast concrete adjusting rings shall be standard reinforced concrete pipe pattern and shall conform to ASTM C478 and ASTM C139. There shall be no spalled edges or cracks. Precast concrete adjusting rings shall be size 4 inch height or greater.
 - b. Expanded polypropylene (EPP) rings shall be in accordance with Section 1043 of the IDOT Standard Specifications.
2. Adjusting ring sealant:
 - a. Precast concrete adjusting ring sealant shall be a flexible rubber butyl pre-formed sealant designed for the purpose of making concrete structure joints water-tight. Material shall conform to ASTM C990.
 - b. EPP ring sealant used for watertight installation of the EPP rings shall meet ASTM C 920, Type S, Grade NS, Class 25, uses NT, T, M, G, A, and O.
3. Manhole exterior adjustment seals (chimney seals) shall be of a rubber compound in accordance with ASTM C-923 and shall have two stainless steel compression bands also in accordance with ASTM C-923.
4. Manhole frames & lids:
 - a. Manhole frames and lids shall be per the approved frames and lids in the table below:

Approved Frames & Lids				
	Neenah Frame	Neenah Lid	East Jordan Frame	East Jordan Lid
Regular	1670-2004	R-1670-0358	00111711	00111732
Low Profile	1670-2008	R-1670-0358	---	---
Bolt Down *	1915JT08		---	---

* For manholes connected to mains 18" diameter or larger, or for manholes located in flood prone areas, frames & lids shall be the bolt down type.

5. Manhole adjustment insert riser rings are not approved for use.

21.3 Required Submittals

1. Manhole adjustment ring material specifications.
2. Manhole adjustment ring sealant material specifications.

3. Manhole exterior adjustment seal (chimney seal) material specifications.
4. Manhole frame and lid material specifications.

21.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per each (EACH) for ***Sanitary Manholes To Be Adjusted with New Frame, Closed Lid.***

22 Sanitary Manholes To Be Removed And Replaced

22.1 Description

This work shall conform to FRSA requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to remove and replace sanitary manholes of various sizes as shown on the plans.

This work shall be in accordance with the FRSA Standard Detail Sheet.

This work shall consist of removing existing sanitary sewer manholes of various diameter or size, including outside drop manholes, and replacing with new precast manholes of various sizes as required to construct this project. This work shall consist of furnishing all materials, castings, casting seals, exterior joint seals, accessories, outside drop connections, connection to existing sanitary sewers, equipment, tools, transportation, rock/earth excavation, dewatering, bypass pumping, trench backfill, services and performance of all operations required to construct sanitary manholes as shown and detailed on the plans or as directed by the FRSA, all in accordance with Article 6:3 and 7 of the Technical Specifications, and the pipe manufacturers requirements.

Manhole Removal:

Any existing sanitary sewers to be abandoned as part of the manhole removal shall be bulkheaded with a watertight plug. This work shall conform to Section 605.03 of the ***IDOT Standard Specifications for Road and Bridge Construction, current edition.***

This work shall include all equipment, materials, labor, transportation, and workmanship to remove and dispose of sanitary manholes as shown on the plans.

This work shall include all rock/earth excavation, trench backfill and compaction, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

Manhole Replacement:

This work shall include all items outlined in Article 3, Section 23 - Sanitary Manholes.

22.2 Materials

All materials shall be in accordance with Article 3, Section 23.2.

22.3 Required Submittals

1. Manhole adjustment ring material specifications.
2. Manhole adjustment ring sealant material specifications.

3. Manhole exterior adjustment seal (chimney seal) material specifications.
4. Manhole frame and lid material specifications.
5. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and elevations and sizes of all pipe openings. A plan view shall be provided showing the orientation of pipe openings.
6. Manhole barrel and cone joint sealant material specifications.
7. Manhole barrel and cone external joint seal material specifications.
8. Manhole step material specifications.
9. Pipe to manhole connector specifications.
10. Pipe material specifications (for connections to existing sewers).
11. Pipe transition coupling material specifications.
12. Material gradation certificates for pipe bedding.
13. Material gradation certificates for trench backfill.

22.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price each (EACH) for ***Sanitary Manholes To Be Removed and Replaced, 4' Dia.***

23 Sanitary Manholes

23.1 Description

This work shall conform to FRSA requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to install sanitary manholes of various sizes as shown on the plans.

This work shall be in accordance with the FRSA Standard Detail Sheet.

This work shall consist of furnishing all materials, castings, casting seals, exterior joint seals, accessories, connection to existing sanitary sewers, equipment, tools, transportation, rock/earth excavation, trench backfill, services and performance of all operations required to construct sanitary manholes of various sizes as shown and detailed on the plans or as directed by the FRSA, all in accordance with Article 6:3 and 7 of the Technical Specifications, and the pipe manufacturers requirements.

This item shall include all materials, labor, transportation, connection to existing sanitary sewer pipes, shear resistant transition couplings and piping, as required, reworking existing manhole inverts and/or benches as required, manhole core-drills, all manholes of the sizes and types required, dewatering, manhole frame & lids, and manhole adjustments.

This work may include rotating the cone section to a specific direction and removing and installing new steps, as directed by the Engineer.

This work shall include all excavation, trench backfill and compaction, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

Flat tops will not be permitted on four- and five-foot diameter manholes; eccentric cone sections must be a component of these manholes.

All sanitary sewer manholes shall be vacuum tested per ASTM C-1244 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to final acceptance.

Manhole Connections:

The Contractor shall field verify all alignments, elevations, sizes, and materials of all existing pipes to be connected. For manhole replacements, or when existing pipes are to be connected, precast concrete manhole bottom sections shall have only the out flow pipe hole precast prior to delivery to the site. All other openings shall be core drilled at the field verified correct and exact alignment and elevation. Alignment and elevation of manhole openings for pipes shall be verified after the existing manhole is removed. Connections to pipes shall be made with a flexible pipe to manhole connector that shall be installed in the field for the incoming pipes.

Manhole openings for pipe connections shall be 4 inches minimum from the nearest barrel joint. The manhole bottom, barrel, and cone section height configurations shall be such that 4 inches of clear space can be achieved between the pipe openings and the nearest barrel joint.

Pipe connections to new manholes shall be made by means of a watertight flexible pipe to manhole connector. All sanitary manholes equal to or greater than twenty-two feet (22') deep shall use pipe to manhole gaskets rated to a minimum of 15 psi hydrostatic pressure (A-LOK model X-CEL or FRSA approved equivalent).

All connections from the new manholes to existing sewer shall be made with PVC SDR 26 pipe (ASTM D2241, ASTM D3139) or as shown on the plans. A minimum of 3.0' of new PVC pipe shall be installed. This item shall include the entire length of connection(s) to existing sewer(s).

Sanitary service/main connections downstream of manholes shall be made a minimum of 7 feet from the outside of the manhole wall. There is no minimum distance for services connected upstream of manholes. All pipe and fittings required to connect services outside of a manhole (downstream or upstream) shall be included in this item, and will not be paid for separately.

The Contractor shall construct a paved manhole bench in each manhole per the standard details or per the Engineer's direction. Manhole benches shall have a minimum slope of two inches (2") per foot.

Manhole steps:

FRSA approved manhole steps shall be provided with a maximum spacing of 16".

Manhole Adjustment:

Manhole adjustment shall consist of furnishing and installing new adjusting rings as required, furnishing and installing new frames and lids, and furnishing and installing exterior manhole adjustment seals.

This work shall include adjusting manhole frames to finish grade. The frame and lid shall be set 1/4-inch min. to 3/8-inch max. below final grade in pavement and at final grade in turf areas. All proposed rim elevations shall be obtained from the roadway reconstruction plan and profile plan sheets or from the Resident Engineer.

The combination of new adjusting rings shall be such that the minimum number of rings possible are used.

Allowable types of adjusting rings include precast concrete and expanded polypropylene (EPP). These can be used in conjunction with each other, except that a precast concrete ring shall not be placed over an EPP ring.

For precast concrete adjusting rings:

All adjusting ring joints, as well as the joint between the frame and adjustment ring, shall be sealed watertight by means of an all-weather rubber butyl sealant designed for the purpose of sealing concrete structures water-tight. The adjusting ring surface shall be dry and free of foreign material. The surface shall be dried and heated with a weed burner when outside temperatures are less than optimum for adhesion of the sealant to the concrete.

Frames in the roadway shall be pitched to match the slope of pavement. EPP taper rings are required when frames are pitched.

For expanded polypropylene (EPP) adjusting rings:

The use of EPP adjustment rings shall be according to Sections 602 and 1043 of the IDOT Standard Specifications, and Supplemental Specifications & Recurring Special Provisions, most recent editions. The EPP adjustment rings shall be installed according to the manufacturer's instructions. If the top surface of the manhole is not level, even, or is irregular, a non-shrink grout shall be placed to create a level surface and the first EPP ring shall be bedded and leveled in the non-shrink grout. The joints between the manhole, all adjustment rings, and the frame shall be sealed with the manufacturer's recommended/specified adhesive. The top ring shall be a 'finish ring' when pitching the frame is not necessary.

Frames in the roadway shall be pitched to match the slope of pavement. The top ring shall be a tapered 'adjustment' ring when pitching the frame is required. Shimming is not an acceptable method of pitching when using EPP rings. The upper most ring shall have grooves on the lower surface and a flat upper surface.

External adjustment seals are required, regardless of the type of adjustment rings used. Heat shrinkable adjustment seals shall not be used with EPP rings.

The maximum height of adjustment shall be 12 inches. The distance between the top of the frame to the first manhole step shall be no more than 30 inches. A maximum of one (1) 2 inch adjusting ring will be allowed.

The Contractor shall install an FRSA approved exterior adjustment seal on all manholes as shown on the FRSA Standard Detail sheet.

23.2 Materials:

1. Adjusting rings:
 - a. Precast concrete adjusting rings shall be standard reinforced concrete pipe pattern and shall conform to ASTM C478 and ASTM C139. There shall be no spalled edges or cracks. Precast concrete adjusting rings shall be size 4 inch height or greater.
 - b. Expanded polypropylene (EPP) rings shall be in accordance with Section 1043 of the IDOT Standard Specifications.
2. Adjusting ring sealant:
 - a. Precast concrete adjusting ring sealant shall be a flexible rubber butyl pre-formed sealant designed for the purpose of making concrete structure joints water-tight. Material shall conform to ASTM C990.
 - b. EPP ring sealant used for watertight installation of the EPP rings shall meet ASTM C 920, Type S, Grade NS, Class 25, uses NT, T, M, G, A, and O.
3. Manhole exterior adjustment seals (chimney seals) shall be of a rubber compound in accordance with ASTM C-923 and shall have two stainless steel compression bands also in accordance with ASTM C-923.
4. Manhole frames & lids:
 - a. Manhole frames and lids shall be per the approved frames and lids in the table below:

Approved Frames & Lids				
	Neenah Frame	Neenah Lid	East Jordan Frame	East Jordan Lid
Regular	1670-2004	R-1670-0358	00111711	00111732
Low Profile	1670-2008	R-1670-0358	---	---
Bolt Down *	1915JT08		---	---

* For manholes connected to mains 18" diameter or larger, or for manholes located in flood prone areas, frames & lids shall be the bolt down type.

- 5. Precast concrete barrel and cone sections shall conform to ASTM C478 and shall be free of spalling or cracks. All manholes shall be vacuum tested per ASTM C124493 Standard Test Method For Concrete Sewer Manholes By The Negative Pressure (Vacuum) Test prior to placing into service.
- 6. Precast concrete barrel and cone joint sealant shall be a flexible rubber butyl pre-formed sealant designed for the purpose of making concrete structure joints water-tight. Material shall conform to ASTM C990.

7. Precast concrete barrel and cone external joint seals shall be a single, full circumference compression band in accordance with ASTM C-877 (Type II); MarMac MacWrap or approved equal.
8. Manhole steps shall be 10 inches long & 12 inches wide in accordance with ASTM C-478; Neenah R-1982-F, M.A. Industries PS-1, or approved equal.
9. Flexible pipe to manhole connectors shall meet the requirements of ASTM C923. Integrally cast and expandable gaskets are acceptable.
10. All connections from the new manholes to existing sewer shall be made with PVC WMQ pipe or as shown on the plans. A minimum of 3.0' of new PVC pipe shall be installed.
 - a. Water main quality PVC pipe shall be:
 - i. PVC SDR 26 having a pressure rating of 160 psi with a pipe stiffness of 115 psi meeting the requirements of ASTM D2241. Joints shall meet the requirements of ASTM D3139.
 - ii. PVC DR 21 having a pressure rating of 200 psi with a pipe stiffness of 224 psi meeting the requirements of AWWA C900. Joints shall meet the requirements of ASTM D3139.
11. Clay to PVC and cast iron or ductile iron to PVC pipe transition couplings shall be Fernco 5000 series shear resistant or approved equivalent repair couplings, made of flexible PVC compound with 316 stainless steel clamps and stainless steel rings. Transition couplings shall conform to the applicable parts of ASTM D5926 and C1173.
12. Crushed stone pipe bedding shall be IDOT CA-7 gradation conforming to Class IA per ASTM Standard D2321.
13. Select trench backfill shall be IDOT gradation FA-6.
14. Manhole adjustment insert riser rings are not approved for use.

23.3 Required Submittals

1. Manhole adjustment ring material specifications.
2. Manhole adjustment ring sealant material specifications.
3. Manhole exterior adjustment seal (chimney seal) material specifications.
4. Manhole frame and lid material specifications.
5. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and elevations and sizes of all pipe openings. A plan view shall be provided showing the orientation of pipe openings.
6. Manhole barrel and cone joint sealant material specifications.
7. Manhole barrel and cone external joint seal material specifications.
8. Manhole step material specifications.

9. Pipe to manhole connector specifications.
10. Pipe material specifications (for connections to existing sewers).
11. Pipe transition coupling material specifications.
12. Material gradation certificates for pipe bedding.
13. Material gradation certificates for trench backfill.

23.4 Basis of Payment

Payment for this work shall be paid for at the contract unit price per each (EACH) for ***Sanitary Manholes, 4' Dia.***

24 Sanitary Sewer Service

24.1 Description:

This work shall conform to FRSA requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to install new sanitary sewer services as shown on the plans.

This work shall be in accordance with the FRSA Standard Detail Sheet.

This work shall consist of the installation of a new sanitary sewer service stub from the sewer main to the Right-of-Way line (or other FRSA-approved service terminus) as shown on the plans, or as directed by the FRSA, with service clean out risers as shown or directed.

This work shall include excavation, trench dewatering, installing PVC SDR 26 pipe, connecting to sanitary sewer main, all fittings and bends, pipe bedding, trench backfill and compaction, temporary connections, and pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

This work shall include connecting to sanitary sewer mains. This shall be accomplished as indicated on the Standard Detail Sheet and as listed below:

1. When connecting to new sanitary sewer, the means of connection shall be by factory PVC wye fitting.
2. When connecting to existing VCP (clay) sanitary sewer less than 18 inches in diameter, a saddle tee or wye connection shall be used. A factory wye cut-in to the sanitary main may also be used when the other types of acceptable connections are not an option.

Sanitary sewer services shall be laid at a minimum of 1.0% slope.

Where the depth of the sewer main exceeds 13 feet, alternate service risers will be required at the sewer main in accordance with the 'Alternate Service Detail' of the FRSA Standard Detail Sheet. Sanitary sewer services shall be laid at a minimum of 1.0% slope. Service invert elevations at the property line shall be a minimum of 11.5 feet below finish floor elevation when there is a structure on the property, or 9.0 feet below grade when there is no structure on the property, whenever possible, unless otherwise directed or shown on the plans.

A service cleanout riser as indicated on the FRSA Standard Detail Sheet shall be installed at the property line or as indicated on the plans. Cleanouts will be required as shown on the plans and where required by the Illinois State Plumbing Code. An underground magnetic utility marker shall be attached to the top of the cleanout cap. New services that will not be air pressure tested shall have a threaded PVC cap.

Should the clean out riser be located in a pavement surface or sidewalk, a frame and lid shall be installed on the clean out riser per the FRSA 'Service Cleanout Casting' detail. This shall only be done with the approval of the FRSA Inspector. The cost of a cleanout frame and lid and installation shall be included in the cost of this item.

This work shall include partial installations when required by construction staging. Sewer services shall be installed beyond the staged construction line at a location adequate to protect any items or permanent surfaces from any damage that are to be constructed between the time the partial service is installed and the time the installation of the service is resumed. All work required due to construction staging shall be considered incidental to this item.

The actual sewer service locations may vary from those shown on the plans. No additional payment will be awarded for changes in service locations.

Utility relocation, repair, protection or restraining, and trench dewatering shall be included in the work covered in this item unless specifically provided for elsewhere.

Pipe Bedding:

Pipe bedding for flexible pipe shall be per the FRSA 'Flexible Pipe Bedding Detail' on the FRSA Standard Detail Sheet. Crushed stone pipe bedding for flexible pipe shall be IDOT CA-7 gradation conforming to Class IA per ASTM Standard D2321. Bedding material for flexible pipe shall be placed from six inches (6") minimum below the bottom of the pipe to the spring line of the pipe and shall be haunched in place along the side of the pipe, ensuring that all voids are eliminated. Bedding material shall be placed from the spring line of the pipe to twelve inches (12") minimum above the top of the pipe.

Bedding shall be graded such that it precludes the migration of trench wall material into the bedding. In the event that the trench bottom is unstable as determined by the FRSA, the Contractor shall undercut the trench as required and furnish and install foundation material. The foundation material shall be a coarse aggregate material IDOT CA-1 gradation that will inhibit the migration of the bedding material into trench bottoms and walls and shall extend to the limits of the pipe bedding detail on the FRSA Standard Detail Sheet. Sanitary sewer trench sub-base improvement shall be completed at no additional cost to the FRSA, unless a specific pay item is provided for this work.

Trench Backfill:

The Contractor shall use approved select trench backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in the FRSA's *General Provisions and Technical Specifications for Sanitary Sewer Construction* T.S. 2:4-c. Select trench backfill under said structures shall be IDOT gradation FA-6, mechanically-compacted in twelve inch (12") maximum loose lifts to the sub-grade elevation of the road shoulder, sidewalk, driveway, parking lot

or other pavement. Materials shall be in accordance with Article 1003.04 and Section 208 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Select trench backfill shall be mechanically compacted with a vibratory plate, vibratory roller, or other approved equipment-mounted compaction equipment. Water-jetting, ponding or flooding will not be permitted as a means of trench compaction on this project.

All select trench backfill shall be compacted to ninety-five percent (95%) of Standard Proctor density; all other backfill shall be compacted to ninety percent (90%) minimum of Standard Proctor density. Compaction shall be according to Method 1 of Article 550.07 of the *IDOT Standard Specifications*. All compaction tests shall be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. Compaction testing shall occur on the first full day of backfilling operations. The independent testing firm shall work with the Contractor to establish appropriate and adequate compaction methods and patterns. Trench backfill moisture content shall be modified if necessary and as operations progress. If the tests do not meet the compaction requirements specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met.

If initial tests indicate compaction requirements are being met, no further lift testing will be required unless the method, equipment, or material (including moisture content) changes.

The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations. The Contractor shall use reasonable care while backfilling over the sewer. No materials such as rocks or boulders shall be allowed to be dropped directly on the sewer pipe. If these materials are present in the backfill, the Contractor shall bring bedding material to a point 24" above the crown of the pipe. The cost of this additional granular material shall be considered incidental to this item.

24.2 Materials

1. Sanitary sewer service pipe shall be SDR 26 WMQ PVC meeting the requirements of ASTM D2241. Joints shall meet the requirements of ASTM D3139.
2. Fittings:
 - a. Water main quality pvc fittings shall be gasketed SDR 26 meeting the requirements of ASTM D2241, and ASTM D3139.
 - b. Saddle tee or saddle wyes shall consist of a flexible tee or wye and stainless steel bands.
 - c. The cleanout riser cap shall be a PVC DWV glued cap.
3. Clay or Cast Iron Pipe to PVC pipe transitions shall be made by use of shear resistant flexible Clay or C.I.P.-to-PVC adapters (Fernco Model 5000, or approved equivalent). The transition shall be made on existing pipe that is structurally sound.
4. Clean out frames and lids shall be Neenah R-1674-A or East Jordan 00157410 & 00157421.
5. Underground magnetic utility markers shall be Berntsen International DEEP1UG or approved equal.

6. Crushed stone pipe bedding shall be IDOT CA-7 gradation conforming to Class IA per ASTM Standard D2321.
7. Select trench backfill shall be IDOT gradation FA-6.

24.3 Required Submittals

1. Pipe material specifications.
2. Fitting material specifications.
3. Coupling and transition coupling material specifications.
4. Clean out frame and lid specifications.
5. Underground magnetic utility marker specifications.
6. Material gradation certificates for pipe bedding material.
7. Material gradation certificates for trench backfill material.

24.4 Method of Measurement

This work will be measured for payment in place in feet, along the alignment of the sanitary service, from the edge of the sanitary main to the end of the service stub.

24.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for *Sanitary Sewer Service, 4" Dia.*

25 Sanitary Sewer

25.1 Description:

This work shall conform to FRSA requirements, details, and provisions. This work shall include all equipment, materials, labor, transportation, and workmanship to install sanitary sewer as shown on the plans.

This work shall be in accordance with the FRSA Standard Detail Sheet.

This work shall consist of the installation of sanitary sewer. Work includes permits, mobilization, site preparation, connection to existing manholes, bypass pumping, earth excavation, trench backfill and compaction, pipe bedding, temporary sewer main connections, temporary sewer main plugs, installing new sewer pipe (various sizes and types, as required) on grade and in line according to the plans and specifications. The work also includes trench dewatering, power tamping, grading and dust control, and all other materials, labor, supervision, transportation, services, and all else that is necessary for the completion of the work and not included elsewhere. Utility relocation shall be included in the work covered in this item unless specifically provided for elsewhere.

Rock excavation for sanitary sewers will be paid for under a separate item.

Sanitary sewer pipe construction that varies +0.05 feet from the proposed grade and/or +0.15 feet from the proposed line will not be accepted. This does not preclude the FRSA

from requiring closer tolerances in the field, nor does it create any obligation for the FRSA to establish the grade or line during construction. The Contractor is solely responsible for maintaining proper lines and grades for the work. The Contractor shall provide at least one laser device for setting lines and grades for subgrade and pipe invert on all parts of the work. The device(s) shall be of acceptable design and maintained in good working condition throughout the length of the project. The Contractor shall employ workmen with the expertise to operate the device(s). The laser device(s) shall be considered as a convenience to the Contractor and will be operated at no extra cost to the FRSA. When directed by the FRSA, the Contractor shall provide a blower for use in conjunction with the laser. The Contractor shall also provide, and have available on site at all times, a calibrated level and level rod.

When required for any part of a sewer section, watermain-quality pipe shall extend for the entire length between manholes or to the Right-of-Way or easement line.

This work shall include temporary connections when required by construction staging. Temporary connections shall be approved by the FRSA inspector and shall ensure adequate sanitary service until the permanent connections can be made. Temporary connections shall be made beyond the staged construction line at a location adequate to protect any items or permanent surfaces from any damage that are to be constructed between the time the temporary connection is made and the time that it is removed and the installation of the sanitary sewer is resumed. All temporary connections shall be considered incidental to this item.

Pipe Bedding:

Pipe bedding for flexible pipe shall be per the FRSA 'Flexible Pipe Bedding Detail' on the FRSA Standard Detail Sheet. Crushed stone pipe bedding for flexible pipe shall be IDOT CA-7 gradation conforming to ASTM Standard D2321 Class IA. Bedding material for flexible pipe shall be placed from six inches (6") minimum below the bottom of the pipe to the spring line of the pipe and shall be haunched in place along the lower side of the pipe, ensuring that all voids are eliminated. Bedding material shall be placed from the spring line of the pipe to twelve inches (12") minimum above the top of the pipe.

Pipe bedding for rigid pipe shall be per the FRSA 'Rigid Pipe Bedding Detail' on the FRSA Standard Detail Sheet. Crushed stone pipe bedding for rigid pipe shall be IDOT CA-7 gradation conforming to ASTM Standard C-21 Class B. Bedding material for rigid pipe shall be placed from six inches (6") minimum below the bottom of the pipe to the spring line of the pipe and shall be haunched in place along the lower side of the pipe, ensuring that all voids are eliminated. Granular trench backfill material shall be placed from the spring line of the pipe to twelve inches (12") above the top of the pipe, and shall be compacted to 90% standard proctor density.

Bedding shall be graded such that it precludes the migration of trench wall material into the bedding. In the event that the trench bottom is unstable as determined by the FRSA, the Contractor shall undercut the trench as required and furnish and install foundation material. The foundation material shall be a coarse aggregate material IDOT CA-1 gradation that will inhibit the migration of the bedding material into trench bottoms and walls and shall extend to the limits of the pipe bedding detail on the FRSA Standard Detail

Sheet. Sanitary sewer trench sub-base improvement shall be completed at no additional cost to the FRSA, unless a specific pay item is provided for this work.

Trench Backfill:

The Contractor shall use approved select trench backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in the FRSA's *General Provisions and Technical Specifications for Sanitary Sewer Construction* T.S. 2:4-c. Select trench backfill under said structures shall be IDOT gradation FA-6, mechanically-compacted in twelve inch (12") maximum loose lifts to the sub-grade elevation of the road shoulder, sidewalk, driveway, parking lot or other pavement. Materials shall be in accordance with Article 1003.04 and Section 208 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Select trench backfill shall be mechanically compacted with a vibratory plate, vibratory roller, or other approved equipment-mounted compaction equipment. Water-jetting, ponding or flooding will not be permitted as a means of trench compaction on this project.

All select trench backfill shall be compacted to ninety-five percent (95%) of Standard Proctor density; all other backfill shall be compacted to ninety percent (90%) minimum of Standard Proctor density. Compaction shall be according to Method 1 of Article 550.07 of the *IDOT Standard Specifications*. All compaction tests shall be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. Compaction testing shall occur on the first full day of backfilling operations. The independent testing firm shall work with the Contractor to establish appropriate and adequate compaction methods and patterns. Trench backfill moisture content shall be modified if necessary and as operations progress. If the tests do not meet the compaction requirements specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met.

If initial tests indicate compaction requirements are being met, no further lift testing will be required unless the method, equipment, or material (including moisture content) changes.

The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations. The Contractor shall use reasonable care while backfilling over the sewer. No materials such as rocks or boulders shall be allowed to be dropped directly on the sewer pipe. If these materials are present in the backfill, the Contractor shall bring bedding material to a point 24" above the crown of the pipe. The cost of this additional granular material shall be considered incidental to this item.

Low Pressure Air Testing:

All new sanitary mains and services that are not connected to buildings shall be low pressure air tested prior to final acceptance. Low-pressure air testing of sanitary sewers shall use an allowable timed pressure drop of 0.5 psig.

**Minimum Specified Time Required for a 0.5 psig Pressure Drop
For Size and Length of Pipe Indicated for Q=0.0015**

1 Pipe Diameter (inches)	2 Minimum Time (min:sec)	3 Length For Minimum Time (ft.)	4 Time for Longer Length (sec.)	Specification Time for Length (L) Shown (min:sec)						
				100 ft.	150 ft.	200 ft.	250 ft.	300 ft.	350 ft.	400 ft.
4	1:53	597	.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:51
8	3:37	298	.760 L	3:37	3:37	3:37	3:37	3:38	4:26	5:04
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	26:11	30:32	34:54
24	11:20	99	6.837 L	11:24	17:57	22:48	28:30	34:11	39:53	45:35
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:13	50:30	57:42
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13
33	15:35	72	12.946 L	21:33	32:19	43:46	53:42	64:38	75:24	86:10
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	102:34

Pipe Deflection Testing:

After sewer installation, backfilling and compaction, all flexible sanitary main pipe shall be thoroughly cleaned and flushed with water and then, if not previously deflection tested as elsewhere specified herein, the installed pipe shall be deflection tested by the Contractor at his own expense, and in a manner acceptable to the FRSA. Deflection testing shall be performed at least thirty (30) days after the trench has been backfilled unless otherwise approved by FRSA.

Testing of all sanitary mains shall be done with a fixed or adjustable steel deflection gauge. The diameter of the gauge shall be set at ninety-five percent (95%) of the undeflected inside diameter of the flexible pipe. The deflection gauge shall stop at any area in a flexible underground pipeline having vertical ring deflection greater than five percent (5%).

If possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines. Where deflection is found to be in excess of five percent (5%) of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, after the initial testing, should the deflected pipe fail to return to the original site (inside diameter) the line shall be replaced.

25.2 Materials

1. Sanitary sewer pipe shall be P VC SDR 26 WMQ having a pressure rating of 160 psi with a pipe stiffness of 115 psi meeting the requirements of ASTM D2241. Joints shall meet the requirements of ASTM D3139.
2. PVC fittings shall be gasketed SDR 26 meeting the requirements of ASTM D2241, ASTM D2665 and ASTM D3139.

3. Crushed stone pipe bedding shall be IDOT CA-7 gradation conforming to per ASTM Standard D2321 Class 1A.
4. Select trench backfill shall be IDOT gradation FA-6.

25.3 Required Submittals

1. Pipe material specifications.
2. Fitting material specifications.
3. Material gradation certificates for pipe bedding material.
4. Material gradation certificates for trench backfill material.

25.4 Method of Measurement

This work shall be measured horizontally along the centerline of the pipe from center of manhole lid to center of manhole lid. When the sanitary sewer connects to an existing sewer, the measurement shall be from the point of connection to the center of manhole lid.

25.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for *Sanitary Sewer, PVC SDR 26 WMQ, 08" Dia.*

26 Seeding and Fertilizing

26.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 250 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to seed and fertilize as shown on the plans.

Any additional seeding and fertilizing than what is shown on the plans and that is required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA.

The areas to be seeded shall be free of all foreign objects, debris, or excessively large clumps or clods, at the discretion of the Engineer. Seedbed preparation shall be per Article 250.05 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

Seeding shall be placed on a 4-inch minimum topsoil bed, paid for separately under the contract unit price per square yard for *Topsoil Furnish and Place, 4"*.

All seeded areas shall be maintained for a period of 30 days after application, which shall include supplemental watering and mowing as directed by the Engineer.

Fertilizer shall be applied in accordance with Article 250.04 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

26.2 Materials

1. Seed mixture shall be Class 1 in accordance with Article 250.07 of the IDOT Standard Specifications for Road and Bridge Construction, current edition. Seed shall be in accordance with Article 1081.04 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.
2. Fertilizer shall be in accordance with Article 1081.08 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

26.3 Required Submittals

1. Seed mixtures.
2. Fertilizer specifications and certifications.

26.4 Method of Measurement

This work will be measured in place in square yards.

26.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard (SQ YD) for *Seeding, Class 1 and Fertilizing*.

27 Sidewalk Removal

27.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 440 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to completely remove and properly dispose of sidewalk as shown on the plans.

Removal limits shall be sawcut full depth prior to removing sidewalk. This item shall include the removal of steps, stoops, etc.

27.2 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square foot (SQ FT) for *Sidewalk Removal*.

28 Storm Sewer Removal

28.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 551 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to remove storm sewers as shown on the plans.

This work shall include the complete removal and disposal of existing storm sewer pipes of various materials and sizes as shown on the plans. Disposal shall be in accordance with

Article 202.03 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

This work shall include all earth excavation, trench backfill and compaction, pavement removal and replacement as required, in accordance with all applicable IDOT provisions and specifications.

This work shall include plugging existing storm sewer main/manhole connections. This shall include reworking of existing manhole inverts, masonry bulkheads, all necessary fittings, couplings and disposal of existing pipe.

28.2 Method of Measurement

This work shall be measured for payment according to Article 551.05 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

28.3 Basis of Payment

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for *Storm Sewer Removal, 15"* and *Storm Sewer Removal, 24"*.

29 Storm Sewers

29.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 550 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to furnish and install storm sewers as shown on the plans.

This work shall include all earth excavation, pipe, gaskets, trench backfill, and all other materials required to install storm sewers to the lines and grades shown on the plans. All joints shall be sealed with rubber gaskets.

This work shall include connections to existing or proposed storm manholes, inlets, or structures of varying materials.

Trench Backfill:

The Contractor shall use approved select trench backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in the FRSA's General Provisions and Technical Specifications for Sanitary Sewer Construction T.S. 2:4-c. Select trench backfill under said structures shall be mechanically compacted in twelve inch (12") maximum loose lifts to the sub-grade elevation of the road shoulder, sidewalk, driveway, parking lot or other pavement. Materials shall be in accordance with Article 1003.04 and Section 208 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. Select trench backfill shall be mechanically compacted with a vibratory plate, vibratory roller, or other approved equipment-mounted compaction equipment. Water-jetting, ponding or flooding will not be permitted as a means of trench compaction on this project.

All select trench backfill shall be compacted to ninety-five percent (95%) of Standard Proctor density; all other backfill shall be compacted to ninety percent (90%) minimum of Standard Proctor density. Compaction shall be according to Method 1 of Article 550.07 of the *IDOT Standard Specifications*. All compaction tests shall be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. Compaction testing shall occur on the first full day of backfilling operations. The independent testing firm shall work with the Contractor to establish appropriate and adequate compaction methods and patterns. Trench backfill moisture content shall be modified if necessary and as operations progress. If the tests do not meet the compaction requirements specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met.

If initial tests indicate compaction requirements are being met, no further lift testing will be required unless the method, equipment, or material (including moisture content) changes.

The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations. The Contractor shall use reasonable care while backfilling over the pipe culverts. No materials such as rocks or boulders shall be allowed to be dropped directly on the culvert pipe. If these materials are present in the backfill, the Contractor shall bring bedding material to a point 24" above the crown of the pipe. The cost of this additional granular material shall be considered incidental to this item.

29.2 Materials

1. Storm sewer pipe shall be RCCP per Section 1042 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*, ASTM C-76, and AASHTO M-170.
2. Storm sewer replacement pipe for removal/replacement at utility/sewer crossings shall be the same size and material as the existing pipe.
3. Rubber gaskets for storm sewer pipe shall be per Section 1056 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*, and ASTM C-443.
4. Trench backfill shall be per Article 208.02 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

29.3 Required Submittals

1. Pipe material certifications.
2. Material gradation certificates for trench backfill.

29.4 Method of Measurement

This work shall be measured for payment according to Article 550.09 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*, except that trench backfill shall be included in the cost of this item and will not be paid for separately.

29.5 Basis of Payment:

Payment for this work shall be paid for at the contract unit price per foot (FOOT) for *Storm Sewers, Class A, Type 1 15"* and *Storm Sewers, Class A, Type 1 24."*

30 Topsoil Furnish and Place

30.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Sections 211 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to install topsoil as shown on the plans.

Any additional topsoil than what is shown on the plans and that is required due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA.

This work shall include preparing areas to be seeded, furnishing and placing topsoil, and removal and disposal of unsuitable materials. Topsoil shall be pulverized and shall not contain any excessively large clumps or clods, at the discretion of the Engineer. The existing ground surface shall be free of all foreign objects, stone, etc. The Contractor shall remove and dispose of such unsuitable materials.

Topsoil placed adjacent to pavement edges, curbs, sidewalk, etc. shall be placed such that the topsoil is flush with the hard surface in its final state, after any settling has occurred. Topsoil that settles next to hard surfaces shall be corrected by the Contractor at no additional cost to the FRSA.

30.2 Materials

1. Topsoil utilized from off-site sources shall be in accordance with Article 1081.05(a) of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.

30.3 Required Submittals

1. Material certifications for topsoil (if being imported from off-site).

30.4 Method of Measurement

This work will be measured in place in square yards.

30.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per square yard for *Topsoil Furnish and Place, 4"*.

31 Traffic Control and Protection, Special

31.1 Description

This work shall conform to FRSA requirements, details, and provisions, and Section 701 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition* and the *Manual on Uniform Traffic Control Devices, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to furnish, install, maintain, relocate, and remove work zone traffic control and protection as required to construct the work shown on the plans.

This work shall include the furnishing, installation, maintenance, and removal of work zone traffic control and protection. The Contractor shall be solely responsible for the safety of all operations and shall comply with all local, State, and OSHA regulations. All required traffic control devices shall be installed prior to any work taking place within the designated work zone. The Contractor shall comply with the appropriate roadway authority traffic control requirements and provisions.

The Contractor will be required to furnish all traffic control devices necessary for the convenience and protection of vehicular and pedestrian traffic. Whenever Contractor operations endanger or interfere with vehicular or pedestrian traffic, as determined by the FRSA or roadway authority, the Contractor shall furnish any additional traffic control devices necessary to direct and protect his laborers at no extra cost.

The Contractor will be required to furnish flaggers as specified in the plans or as required by the FRSA on a continuous basis whenever construction operations are in progress.

Traffic control devices may not be delivered to the site more than five (5) days prior to installation of the devices and must be removed from the site within five (5) days after the required work is complete.

The Contractor is responsible for the proper location, installation, and arrangement of all traffic control devices furnished. Whenever operations indicate that relocation of a proposed or existing traffic control device is advisable, as determined by the FRSA, the Contractor shall remove, relocate, and reinstall the device(s) in question at no additional cost.

All advance warning signs for lane closure, intermediate information signs, and standard signs shall be installed in accordance with IDOT Highway Standards. Cones will not be allowed as a traffic control device.

“WORKERS” (W21-1a (0) - 48) signs shall be replaced with symbol “Right or Left Lane Closed Ahead” (W4-2R or L (0) - 48) signs.

Daily or periodic lane closures shall be erected no earlier than 9:00 AM and shall be removed no later than 3:30 PM regardless of the day of the week. If a lane closure will remain for more than one calendar day, the Contractor shall notify the jurisdictional roadway authority at least six (6) hours in advance.

Emergency lane closures shall be erected and removed at the explicit direction of the roadway authority.

All advance warning signs and traffic control devices shall be removed or covered by the Contractor when such signs and devices are not in effect or at the direction of the FRSA or roadway authority.

The basic layout for traffic control devices shall be in accordance with the specifications.

The Contractor is responsible for the maintenance of all traffic control devices installed and shall inspect all barricades, barrels, warning signs, and lights which he has installed on a twenty-four (24) hour basis for each day of this Contract. In the event of severe weather conditions, the Contractor shall be required to furnish any additional personnel required

to maintain all traffic control devices as required by the FRSA. Traffic control devices shall be inspected at least once every twelve (12) hours.

The Contractor will be required to remove all traffic control devices which were furnished, installed, or maintained by him under this Contract and such devices shall remain the property of the Contractor upon said removal. All traffic control devices shall remain in place until specific authorization for removal is received from the FRSA or roadway authority.

31.2 Whitman Street Reconstruction Coordination

Traffic control shall be coordinated with the City of Rockford Whitman Street Reconstruction project which will occur concurrently. Contact the City of Rockford Public Works Department Engineering Division (779-348-7300). Residences located on Ridge Avenue between Whitman Street and North Avenue will only have access through the Ridge Avenue & North Avenue intersection throughout the Whitman Street Reconstruction project. Construction shall be staged to maintain access for Ridge Avenue residences.

31.3 Equipment

1. All traffic control devices and equipment shall be in accordance with Article 701.03 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.
2. Name and contact information for the person directly employed by the Contractor who is to be responsible for the installation and maintenance of the traffic control, per Article 701.04 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*.
3. Copies of approved traffic control plans, including detour routing and road closures as required by the roadway authority.

31.5 Basis of Payment

Payment for this work shall be paid for at the contract unit price per lump sum (L SUM) for *Traffic Control & Protection, Special*.

32 Aggregate Subgrade Improvement

32.1 Description

This work shall conform to Four Rivers Sanitation Authority (FRSA) requirements, details, and provisions and Section 202 of the *IDOT Standard Specifications for Road and Bridge Construction, current edition*. This work shall include all equipment, materials, labor, transportation, and workmanship to remove and dispose of unsuitable material and perform subgrade improvements of various sizes and depths as shown on the plans.

This work shall consist of constructing an aggregate subgrade improvement in areas where unsuitable material has been removed. Removal and disposal of unsuitable material shall be included under this item.

Prior to aggregate subgrade placement, the subgrade area shall be proof-rolled and witnessed by the Engineer. Proof-rolling shall consist of using a fully loaded tandem axle dump truck to identify locations of structurally unsuitable subgrade. Proof-rolling shall be scheduled and completed so as to avoid a rain event between proof-rolling and aggregate base course placement. At the direction of the FRSA, the subgrade may be required to dry out for a period of time in an attempt to identify areas of unsuitable material prior to fortifying the subgrade with additional aggregate subgrade improvement.

Unsuitable material that is encountered during construction shall be excavated, removed, and disposed of. Locations and extents of this work shall be at the direction of the Engineer. This item is intended to be used for the removal of unsuitable subgrade material.

The maximum nominal lift thickness of aggregate gradations CA-01, CS-01, CS-02, and RR-1 shall be 24 inches. All aggregate lifts shall be compacted to the satisfaction of the FRSA. If the moisture content of the material is such that satisfactory compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained. The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the FRSA. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

Materials:

1. Aggregate for subgrade improvement shall be IDOT gradation CA-01, CS-01, CS-02, or RR-1 coarse aggregate capped with 3 inches of gradation CA-06 coarse aggregate in accordance with Article 1004.04 of the IDOT Standard Specifications for Road and Bridge Construction, current edition.

Required Submittals:

1. Material gradation certificates for aggregate for subgrade improvement.

Method of Measurement:

This work will be measured for payment in place in Cubic Yards.

Basis of Payment:

Payment for this work shall be paid for at the contract unit price per cubic yard (CU YD) for *Aggregate Subgrade Improvement*.

Section II

Contract Forms

Not to be used for bidding purposes

Proposal

Project: North Avenue and Napoleon Street, Capital Project No. 2564

Location: Public Right-of-Way of North Avenue
City of Rockford, Winnebago County, Illinois

Completion Date: November 14, 2025

Liquidated Damages: \$300/calendar day per each completion date deadline

To: Board of Trustees
Four Rivers Sanitation Authority
3501 Kishwaukee Street
Rockford, IL 61109

From: _____
(Individual, Partnership or Corporation, as case may be)

(Address of Individual, Partnership or Corporation)

I (We), the undersigned, hereby propose to furnish all materials, equipment, tools, services, labor, and whatever else may be required to construct and place in service the above subject Sanitary Sewer for the Four Rivers Sanitation Authority all in accordance with the plans and specifications, provided by Four Rivers Sanitation Authority. The undersigned also affirms and declares:

1. That I (we), have, examined and am (are) familiar with all the related contract documents and found that they are accurate and complete and are approved by the undersigned.
2. That I (we), have carefully examined the site of the work, and that, from my (our) investigation, has satisfied myself (ourselves) as to the nature and location of the work, the character, quality, and quantity of materials and the kind and extent of equipment and other facilities needed for the performance of the work, the general and local conditions and all difficulties to be encountered, and all other items which may, in any way, effect the work or its performance.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.

4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of the Four Rivers Sanitation Authority, which it is agreed, shall be retained as liquidated damages by said Four Rivers Sanitation Authority if the undersigned fails to execute the Contract in conformity with the contract documents incorporated in the contract documents and furnish bond as specified, within ten (10) days after notification of the award of the contract to the undersigned.

5. The Bidder is of lawful age and that no other person, firm or corporation has any interest in this Proposal or in the Contract proposed to be entered into.

6. The Bidder is not in arrears to the Four Rivers Sanitation Authority, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the Four Rivers Sanitation Authority.

7. No officer or employee or person whose salary is payable in whole or in part by the Four Rivers Sanitation Authority is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety of otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it is relates, or in any portion of the profits thereof.

8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify the Four Rivers Sanitation Authority and the Four Rivers Sanitation Authority's representatives.

In regard to participation in an approved Apprenticeship program, upon request, Contractor will be required to provide written proof of participation.

9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 101-0221 and will make this information available upon request.

10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including Four Rivers Sanitation Authority) to submit certified payroll reports via the State's Certified Transcript of Payroll Portal found at <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>.

11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.

12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".

13. The undersigned, as Bidder, declares he will comply with Public Act 96-929 (30 ILCS 570) regarding Illinois residents' employment.

14. The undersigned, as Bidder, declares he will comply with non-discrimination in employment in accordance with the Illinois Fair Employment Practices Commissions Rules & Regulations.
15. The undersigned, as Bidder, declares that he currently participates in an apprenticeship or training program that is registered with the United States Department of Labor's Bureau of Apprenticeship and Training or other acceptable State of Illinois Department of Labor monitored program.

In submitting this bid, it is understood that the right is reserved by the Four Rivers Sanitation Authority to reject any and all bids. It is agreed that this bid may not be withdrawn for a period of sixty (60) days from the opening thereof.

The undersigned further declares that he (they) has (have) carefully examined the following items of work and that the cost of all the work to complete this project is given in this Proposal.

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	45	SQ YD	Aggregate Base Course, Type B 4"			
2	486	SQ YD	Aggregate Base Course, Type B 8"			
3	2,276	SQ YD	Aggregate Base Course, Type B 12"			
4	250	CU YD	Aggregate Subgrade Improvement			
5	478	SQ YD	Class B Patches, Type IV, 10"			
6	448	FOOT	Combination Concrete Curb & Gutter, Ty. M6.18 (Modified)			
7	448	FOOT	Combination Curb & Gutter Removal			
8	1	EACH	Connect to Existing Sanitary Manhole			
9	1	L SUM	Construction Layout			
10	45	SQ YD	Driveway Pavement Removal			
11	40	FOOT	Fence Removal & Reinstallation			
12	319	TON	Hot-Mix Asphalt Binder Course, IL-19.0, N50			
13	191	TON	Hot-Mix Asphalt Surface Course, IL-9.5, Mix "D", N50			
14	9	EACH	Inlet Filters			
15	3	EACH	Manholes To Be Adjusted			

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
16	623	SQ YD	Mulch, Method 2			
17	2,754	SQ YD	Pavement Removal			
18	45	SQ YD	Portland Cement Concrete Driveway Pavement, 6"			
19	2,097	SQ FT	Portland Cement Concrete Sidewalk, 4"			
20	110	CU YD	Rock Excavation For Sanitary Sewer			
21	1	EACH	Sanitary Manholes To Be Adjusted with New Frame, Closed Lid			
22	1	EACH	Sanitary Manhole To Be Removed & Replaced, 4' Dia.			
23	3	EACH	Sanitary Manholes, 4' Dia.			
24	807	FOOT	Sanitary Sewer Service, 4" Dia.			
25	654	FOOT	Sanitary Sewer, PVC SDR 26 WMQ, 8" Dia.			
26	623	SQ YD	Seeding, Class 1 and Fertilizing			
27	2,097	SQ FT	Sidewalk Removal			
28	20	FOOT	Storm Sewer Removal, 15"			
29	20	FOOT	Storm Sewer Removal, 24"			
30	20	FOOT	Storm Sewers, Class A, Type 1 15"			
31	20	FOOT	Storm Sewers, Class A, Type 1 24"			

Item No.	Quan- tity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
32	623	SQ YD	Topsoil Furnish and Place, 4"			
33	1	L SUM	Traffic Control & Protection, Special			
34	1	EACH	Valve Vaults To Be Adjusted			
TOTAL BID PRICE:				(In Writing)	(In Figures)	

The undersigned acknowledges receiving Addendum numbers _____, _____, _____, and realizes that all Addenda are considered part of the Contract.

By: _____

Name: _____ Title: _____ Date: _____

Fair Employment Practices Affidavit of Compliance

Project: North Avenue and Napoleon Street, Capital Project No. 2564

NOTE: THE BIDDER MUST EXECUTE THIS AFFIDAVIT AND SUBMIT IT WITH ITS SIGNED BID. THE FOUR RIVERS SANITATION AUTHORITY CANNOT ACCEPT ANY BID WHICH DOES NOT CONTAIN THIS AFFIDAVIT

_____, being first duly sworn, deposes and says that:
(Name of person making affidavit)

They are: _____ of _____
(Officer's Title) (Company Name)

that said company is and "Equal Opportunity Employer" as defined by Section 2000(e) of Chapter 21, Title 42 of the United States Code annotated and Federal Executive Orders #11375 which are incorporated herein by reference;

and that said company will comply with any and all requirements of Title 44 Admin. Code 750. APPENDIX A – Equal Opportunity

"In the event of the contractor's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this contract, the contractor agrees as follows:

1. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizen status, age, physical or mental handicap unrelated to ability, sexual orientation, military status or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
2. That, if he or she hires additional employees in order to perform this contract or any portion of this contract, he or she will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the areas from which he or she may reasonably recruit and he or she will hire for each job classification for which employees are hired in a way that minorities and women are not underutilized.
3. That, in all solicitations or advertisements for employees placed by him or her or on his or her behalf, he or she will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, sexual orientation, military status or an unfavorable discharge from military service.
4. That he or she will send to each labor organization or representative of workers with which he or she has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the contractor in his or her efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the contract.
5. That he or she will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Departments Rules and Regulations.
6. That he or she will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
7. That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contacts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

(Source: Amended at 32 Ill. Reg. 16484, effective September 23, 2008)"

IL Dept of Human Rights Registration No.: _____

Expiration Date: _____

Signature

Subscribed and sworn to before me this _____ day of _____, 20____.

Notary Public

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we:

and _____ (hereinafter called the Principal)

(hereinafter called the Surety)

a Corporation chartered and existing under the laws of the State of _____
with its principal offices in the City of _____ and authorized to do business
in the State of Illinois are held and firmly bound onto the Four Rivers Sanitation Authority
(FRSA) of Winnebago County, Illinois, in the full and just sum of: **FIVE PERCENT (5%) OF
THE TOTAL BID PRICE** good lawful money of the United States of America, to be paid upon
demand of the FRSA, to which payment will and truly to be made we bind ourselves, our
heirs, executors, administrators, and assigns, jointly and severally and firmly by these
presents.

WHEREAS, the Principal is about to submit, or has submitted to FRSA, a proposal for the
construction of 654-feet of 8-inch diameter PVC sanitary sewer, 807-feet of 4-inch diameter
sanitary services with cleanout, and four manholes, hot-mix asphalt pavement removal and
replacement, curb and gutter removal and replacement, sidewalk removal and replacement,
turf restoration and all other appurtenances indicated on the plans and in the specifications.

WHEREAS, the Principal desires to file this bond, in accordance with law, to accompany this
Proposal.

NONE OF THE FOREGOING IS TO BE CONSTRUED AS AN AGREEMENT
NOW THEREFORE, The conditions of this obligation are such that if the Proposal be
accepted, the Principal shall, within ten days after the date of receipt of a written notice of
award of Contract, execute a Contract in accordance with the Proposal and upon the terms,
conditions, and prices set forth therein, in the form and manner required by FRSA, and
execute a sufficient and satisfactory Contract Performance Bond payable to said FRSA in an
amount of one hundred percent (100%) of the Contract price (including alternates) in form
and with security satisfactory to said FRSA, then this obligation to be void, otherwise to be
and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to
comply with any or all of the foregoing requirements within the time specified above,
immediately pay to the aforesaid FRSA, upon demand, the amount hereof in good and lawful
money of the United States of America, not as a penalty, but as liquidated damages.

North Avenue and Napoleon Street
Capital Project No. 2564

IN TESTIMONY THEREOF, the Principal and Surety have caused these presents to be duly signed and sealed this _____ day of _____, 20_____.

Principal

(Seal)

By _____
Name: _____
Title: _____
Date: _____

Attest:

Secretary

Surety

(Seal)

By _____
Name: _____
Title: _____
Date: _____

Agreement

1. General

THIS AGREEMENT, made and concluded this _____ day of _____, 2025, between the Four Rivers Sanitation Authority (FRSA), Rockford, Illinois, acting by and through the Board of Trustees, and _____, his/their executors, administrators, successors or assigns:

2. Scope of Work

WITNESSETH: That for and in consideration of the payments and agreements made in the Proposal attached hereto, to be made and performed by FRSA and according to the terms expressed in the Bond referring to these presents, the Contractor agrees with FRSA at his/their own proper cost and expense to do all the work, furnish all equipment, materials and all labor necessary to complete the work in accordance with the plans and specifications hereinafter described, and in full compliance with all of the terms of this agreement and the requirements of FRSA and its representative.

And it is also understood and agreed that the Bidding Requirements, Detailed Specifications, Contract Forms, General Conditions, General Requirements, Technical Specifications, Plans, Addenda, and provisions required by law are all essential documents of the contract, and are a part hereof, as if herein set out verbatim or as if attached, except for titles, subtitles, headings, table of contents and portions specifically excluded.

3. Contract Price

FRSA shall pay to the Contractor, and the Contractor shall accept, in full payment for the performance of this Contract, subject to any additions or deductions provided for hereby, in current funds, the Total Contract Price of _____ and 00/100 (\$______).

Payments are to be made to the Contractor in accordance with and subject to the provisions of Section 7 of this Agreement, which is a part of this Contract.

4. Bond

The Contractor has entered into and herewith tenders a bond of even date herewith, in the penal sum of _____ and 00/100 (\$_____) to insure the faithful performance of this Contract, which said bond is hereby made a part of this Contract by reference.

5. Maintenance and Guarantee

The Contractor shall promptly repair, replace, restore or rebuild any imperfections that may arise and shall maintain satisfactory to FRSA all work for a period three years from the date of final acceptance of the Contract for trench settlement and for a period of two years all other work, except where periods of maintenance and guarantee are provided for. The Contractor shall, for this period, indemnify and save harmless the FRSA, its officers and agents from any injury done to property or persons as a direct or alleged result of

imperfections in the Contractors' work, and shall immediately assume and take charge of the defense of such action or suits in like manner and to all intents and purposes as if said actions and suits had been brought directly against the Contractor.

If the Contractor shall fail to repair, replace, rebuild or restore such defective or damaged work promptly after receiving notice given by FRSA, the FRSA shall have the right to have the work done by others and to call on the Contractor and his bondsman to pay the costs thereof.

6. Contract Execution

IT IS EXPRESSLY UNDERSTOOD AND AGREED that the entire improvement shall be done in a thorough and workmanlike manner, under the direction and to the satisfaction of FRSA and in full compliance with all the requirements of its representative under them. All loss or damage arising out of the nature of the work to be done, or from any detention of unforeseen obstruction or difficulty which may be encountered in the prosecution of the work, or from the action of the elements, shall be sustained by the Contractor.

The Contractor will be held responsible for all accidents, and hereby agrees to indemnify and protect FRSA from all suits, claims, and actions brought against it, and all cost, and damages which FRSA may be put to by reason of an injury or alleged injury, to the person or property of another in the execution of this contract, or the performance of the work, or in guarding the same, or for any material used in its prosecution or in its construction.

Any person employed on the work who shall refuse or neglect to obey the directions of FRSA or its representative, or who shall be deemed by FRSA to be incompetent, or who shall be guilty of any disorderly conduct, or who shall commit any trespass on any public or private property in the vicinity of the work, shall at once be removed from the work by the Contractor when so requested by FRSA.

Any request to extend the contract completion date must be considered by the Board at the Board meeting prior to the then-existing contract termination date. Any deviation from this action will result in the liquidated damage clause in the contract to be exercised.

7. Payments to Contractor

FRSA hereby covenants and agrees, in consideration of the covenants and agreements in this Contract, specified to be kept and performed by the Contractor and subject to the conditions herein contained, and if FRSA receives an acceptable invoice prior to the tenth day of the month and receives approval of the work by the FRSA's Director of Engineering, FRSA shall issue payment before the fifth day of the succeeding month. If FRSA receives an acceptable invoice on or after the tenth day of the month, FRSA shall issue payment before the fifth day of the second succeeding month.

FRSA reserves the right at all times to refuse to issue payment in case the Contractor has neglected or failed to pay any subcontractors, workmen or employee on the work.

8. Subcontracts

No part of the work herein provided for shall be sublet or subcontracted without the express consent of FRSA, to be entered in the records, and in no case shall consent relieve the Contractor from the obligation herein entered into, or change the terms of this Agreement.

9. Contractor's Responsibility

This Contract shall extend to and be binding upon the successors and assigns, and upon the heirs, administrators, executors, and legal representatives of the Contractor.

In consideration of and to induce the award of this Contract to him, the Contractor represents and warrants: that he is not in arrears to FRSA upon debt of the Contract and that he is not a defaulter, as surety, contractor or otherwise; that he is financially solvent and sufficiently experienced and competent to perform the work; that the work can be performed as called for by the Contract; that the facts stated in his proposal and the information given by him is true and correct in all respects, and that he is fully informed regarding all the conditions affecting the work to be done and labor and materials to be furnished for the completion of this Contract and that his information was secured by personal investigation and research.

The Contractor shall pay not less than the prevailing wage rate as determined by the Department of Labor, to all laborers, workmen and mechanics performing work under this Contract. Contractor shall comply with current revisions of the wage standards; as required by law. The Contractor shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. The State of Illinois requires contractors and subcontractors on FRSA projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>. The Contractor is responsible for verifying current website.

In regard to nondiscrimination in employment, Contractor will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations as provided herein.

The Contractor shall comply with the American Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify FRSA and their representatives from all:

- (a) suits, claims, or actions;
- (b) costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement, and;
- (c) damages of any kind (including but not limited to actual, punitive, and compensatory damages)

relating in any way to or arising out of the ADA, to which said firm is exposed or which it incurs in the execution of the contract.

Contractor shall also comply with Public Act 101-0221, which requires any party to a contract to adopt and enforce a written policy regarding sexual harassment that includes, as a minimum, the following information:

- (a) the illegality of sexual harassment

- (b) the definition of sexual harassment under Illinois State law;
- (c) a description of sexual harassment, utilizing examples;
- (d) my (our) organization's internal complaint process including penalties;
- (e) through the Illinois Department of Human Rights and the Illinois Human Rights Commission;
- (f) directions on how to contact the Department and the Commission; and
- (g) protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act.

Upon request this information will be provided to the Illinois Department of Human Rights. Upon FRSA award of a contract, FRSA will be provided this information described no more than ten working days after FRSA issues its award notification.

The Contractor shall comply with Public Act 96-929 (30 ILCS 570) which provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and further, that Illinois workers are available and capable of performing the particular type work involved.

The Contractor shall comply with all rules and regulations of OSHA during the execution of this Contract.

The Contractor shall comply with the Federal Drug Free Workplace Act.

The Steel Products Procurement Act, Illinois Public Act 83-1030, requires that steel products used or supplied in performance of this Contract or subcontract shall be manufactured or produced in the United States with three exceptions, as explained in the Instructions to Bidders.

The Contractor shall comply with Public Act 96-1416 regarding the disposal of CCDD and uncontaminated soil at CCDD fill sites as explained in the Instructions to Bidders.

10. Time

Work under this Agreement shall be commenced upon written Notice to Proceed. The completion date for this project shall be November 14, 2025.

11. Liquidated Damages

The amount of liquidated damages shall be \$300.00 per calendar day.

12. Counterparts

This Agreement may be executed and recorded in counterparts, each of which shall be deemed an original and all of which, when taken together, shall constitute one and the same instrument. The Parties hereby acknowledge and agree that facsimile signatures or signatures transmitted by electronic mail in so-called "pdf" format shall be legal and binding and shall have the same full force and effect as if an original of this Agreement had been delivered. Each of the parties (a) intend to be bound by the signatures on any document sent by facsimile or electronic mail, (b) are aware that the other party will rely on

such signatures, and (c) hereby waive any defenses to the enforcement of the terms of this Agreement based on the foregoing forms of signature.

13. Seals

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals, and such of them as are corporations have caused these presents to be signed by their duly authorized officers.

Four Rivers Sanitation Authority
Winnebago County, Illinois

(Seal)

By _____
President, Board of Trustees

ATTEST: _____
Clerk of the Board

Contractor

By _____
Contractor's Officer

(Corporate Seal)

Name: _____
Title: _____
Date: _____

ATTEST: _____

Labor & Material Payment Bond

TO: _____ Contractor Name

Contractor City, State

KNOW ALL MEN BY THESE PRESENTS

That _____ (Contractor)

as Principal, and _____

a corporation of the State of _____ as Surety, are held and firmly bound unto the Four Rivers Sanitation Authority, as Obligee, for the use and benefit of claimants as hereinafter defined in the amount of

____ Dollars (\$_____), for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed, as determined by the State of Illinois Department of Labor pursuant to the Illinois Compiled Statutes 280 ILCS 130 / 1-12 et.seq. and for all material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. A claimant is deemed as any person, firm, or corporation having contracts with the Principal or with any of Principal's subcontractors for labor or materials furnished in the performance of the Contract on account of which this Bond is given.
2. Nothing in this Bond contained shall be taken to make the Obligee liable to any subcontractor, material man or laborer, or to any other person to any greater extent than it would have been liable prior to the enactment of The Public Construction Bond Act, approved June 20, 1931, as amended; provided further, that any person having a claim for labor and materials furnished in the performance of the Contract shall have no right of action unless he shall have filed a verified notice of such claim with the Obligee within 180 days after the date of the last item of work or the furnishing of the last item of materials, which claim shall have been verified and shall contain the name and address of the claimant, the business address of the claimant within the State of Illinois, if any, or if the claimant be a foreign corporation having no place of business

within the State the principal place of business of the corporation, and in all cases of partnership the names and residences of each of the partners, the name of the Contractor for the Obligee, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.

3. No action shall be brought on this Bond until the expiration of 120 days after the date of the last item of work or of the furnishing of the last item of material except in cases where the final settlement between Obligee and the Contractor shall have been made prior to the expiration of the 120 day period, in which case action may be taken immediately following such final settlement; nor shall any action of any kind be brought later than 6 months after the acceptance by the Obligee of the work. Such suit shall be brought only in the circuit court of this State in the judicial district in which the Contract is to be performed.
4. Surety hereby waives notice of any changes in the Contract, including extensions of time for the performance thereof.
5. The amount of this Bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder.
6. The Principal and Surety shall be liable for any attorneys' fees, engineering costs, or court costs incurred by the Obligee relative to claims made against this Bond.

Signed and Sealed this _____ day of _____, 20____.

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

By: _____
Attorney-in-Fact Signature

Printed Name

Title

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Performance Bond

KNOW ALL MEN BY THESE PRESENTS, that WHEREAS, the Four Rivers Sanitation Authority has awarded to: _____ hereinafter designated as the “Principal”, a contract, dated, _____, for the Four Rivers Sanitation Authority.

WHEREAS, said Principal is required under the terms of said Contract to furnish a bond for the faithful performance of said Contract (the “Bond”);

NOW, THEREFORE, we the Principal and _____, as Surety, are firmly bound unto the Four Rivers Sanitation Authority in the penal sum of _____ Dollars (\$_____) lawful money of the United States for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents for a performance bond. The conditions of this obligation is such that if the said Principal does well and faithfully performs all the conditions and covenants of said Contract, according to the true intent and meaning thereof, upon its part to be kept and performed, then the above obligation is to be null and void, otherwise to remain in full force and effect.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bounden Principal, its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the said Contract, including the provisions for liquidated damages in the said Contract, any changes, additions or alterations thereof made as therein provided, on its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Four Rivers Sanitation Authority, its officers and agents, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect. And the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same and no inadvertent overpayment of progress payments shall in any way affect its obligations on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications or of any inadvertent overpayment of progress payments. The Four Rivers Sanitation Authority shall be named as beneficiary on this Performance Bond.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their seal this _____ day of _____, 20_____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

By: _____
Attorney-in-Fact Signature

Printed Name

Printed Name

Title

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Section III

Report of Soils Exploration

Not to be used for bidding purposes



August 1, 2025

Mr. Christopher T. Baer, PE
Director of Engineering
Four Rivers Sanitation Authority
3501 Kishwaukee Street
Rockford, Illinois 61109

Re: Geotechnical Engineering Report
Capital Project #2564
Sewer Improvements
North Avenue & Napoleon Street
Rockford, Illinois 61103
GEOCON Project No. 25-G0899

Dear Mr. Baer:

Pursuant to our proposal for geotechnical engineering services, we have completed a subsurface exploration and geotechnical analyses for the sewer improvements along North Avenue near the Napoleon Street intersection, in Rockford, Illinois. This electronic copy of the Geotechnical Engineering Report includes our findings and recommendations for the proposed project referenced above. Please contact our office if you require hard copies of the report.

GEOCON Professional Services, LLC. (GEOCON) appreciates the opportunity to be of service during this phase of the project. If there are any questions or comments you may have regarding the contents of this report, or if we may be of any further service, please contact us at your convenience.

Sincerely,

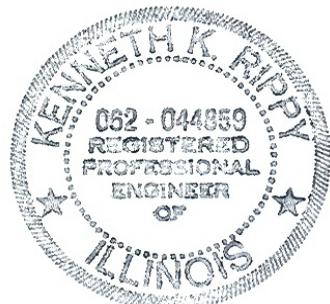
GEOCON Professional Services, LLC.

A handwritten signature in black ink that appears to read "B. Filafusi".

Brandon Filafusi, EIT
Project Engineer

A handwritten signature in black ink that appears to read "K. Rippy".

Kenneth K. Rippy, PE
Senior Engineer





Geotechnical Engineering Report

Capital Project #2564
Sewer Improvements
North Avenue & Napoleon Street
Rockford, Illinois 61103

Mr. Christopher T. Baer, PE
Director of Engineering
Four Rivers Sanitation Authority
3501 Kishwaukee Street
Rockford, Illinois 61103

Prepared By:
GEOCON Professional Services, LLC.
22774 Citation Road, Unit A
Frankfort, Illinois 60423

August 1, 2025

GEOCON Project No. 25-G0899

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Not to be used for bidding purposes

GEOTECHNICAL ENGINEERING REPORT

**Capital Project #2564
Sewer Improvements
North Avenue & Napoleon Street
Rockford, Illinois 61103**

INTRODUCTION

This report presents the results of a subsurface exploration for the proposed sanitary sewer improvements in Rockford, Illinois. The purpose of this report was to determine and evaluate the subsurface conditions existing at the subject site, and to establish related geotechnical parameters to be utilized for the economical design and construction of the utility improvements planned as part of this project.

PROJECT AND SITE DESCRIPTION

The proposed project will consist of a new 8-inch PVC sanitary sewer along North Avenue, generally between Ridge Avenue on the west end of the improvement and extending east of Napoleon Street. The proposed sewer inverts range from about El. 743 feet to 748 feet, indicating the depth of excavation will range from about 7 to 11 feet. Open trench installation methods are anticipated for this project using trench boxes to support the excavation side walls. Excavation stability and groundwater management are the primary geotechnical concerns for the project.

SUBSURFACE EXPLORATION

Four (4) borings, labeled SB-1 to SB-4, were advanced for the project at the locations shown on the Boring Location Diagram included in the Appendix. The borings were extended to depths ranging from 10 to 15 feet below grade. The boring locations were staked in the field by GEOCON prior to drilling, and the ground surface elevations were estimated from plan and profile sheets provided by Four Rivers. The ground surface elevations at the boring locations are indicated on the boring logs provided in the Appendix.

After completion of the borings, the holes were backfilled with soil cuttings and patched with like materials as encountered at the boring. This procedure was performed for safety purposes and precluded the recording of water level readings except as encountered during or immediately after completion of drilling.

Drilling and Sampling Procedures

The soil borings were performed with a truck mounted drilling rig equipped with a rotary head. Conventional, continuous flight, hollow-stem augers were used to advance the borings with representative samples obtained in the boring employing split-barrel sampling techniques in accordance with ASTM Procedure D-1586. Soil samples were taken at 2.5-foot intervals from the surface to a depth of 10 to 15 feet followed by 5-foot interval sampling to the termination depth of the borings.

The Standard Penetration Test (SPT) is defined as the number of blows required to advance a 2-inch O.D., split-barrel sampler a distance of one foot by a 140-pound hammer falling 30 inches, commonly described as the N-value. These sampler resistances provide a useful indication of the consistency or relative density of most soil deposits and are reported on the boring log presented in the Appendix. Samples of cohesive soils obtained from the borings were tested with a calibrated hand penetrometer to aid in evaluating the soil strength characteristics. The results from this testing is tabulated on the boring logs. Groundwater level observations made during drilling operations are noted on the boring logs.

It should be noted that it is difficult to determine the stratigraphy of the upper 2 to 3 feet of the profile from the soil borings due to the size of the bore hole, about 6 inches in diameter, and intermittent sample intervals. Further, the split spoon sampler tends to push through softer soils such as fill or topsoil, resulting in little or no sample recovery from these soils. It is recommended that test pits be excavated to better define the depth of fill if such information is required prior to construction.

Laboratory Tests

Additional characteristics of the foundation materials were determined in the laboratory to provide data on which to classify and estimate the engineering properties of the subsurface soil deposits encountered in the borings. All samples were visually classified by the geotechnical engineer according to the Unified Soil Classification System (ASTM D-2488). An explanation of the symbols used in this system is included in the Appendix.

Representative samples were tested in the laboratory to determine the natural moisture content of the soils. All moisture contents are expressed as a percentage of the dry weight of soil. Representative samples of the cohesive soils encountered in the borings were tested in the laboratory with a calibrated RIMAC spring tester to determine the approximate unconfined compressive strength of the soil samples.

The laboratory testing program selected for this project is intended to assist with determination of soil classification as well as strength and deformation characteristics of the subsurface soil deposits that will be useful in design of excavations. All laboratory testing was performed in general accordance with the respective ASTM Methods, as applicable, and the results are included on the boring logs included in the Appendix. Unless notified to the contrary, all samples will be disposed of after one month.

SOIL CONDITIONS

The types of subsurface materials encountered at the test boring locations are described on the Soil Boring Logs. The lines delineating the changes in strata on the logs represent an approximate boundary between the various soil classifications. It must be recognized that the soil descriptions are considered representative for the specific test hole location, but that variations may occur between the sampling intervals and at other locations on the site. A summary of the major soil profile components is described in the following paragraphs. A more detailed description and supporting data for the boring locations can be found on the individual boring logs.

The borings were located within the pavement of North Avenue and the pavement section consisted of 7 inches of asphalt. Below the surficial asphalt, clay or sand fill was encountered at borings SB-1 to SB-3 extending to depths of about 3.5 feet below grade. The sand fill at SB-1 was described as medium dense

with an N-value of 10 bpf, moisture content of 12.2 percent, and was noted to have a strong petroleum odor. The clay fill at SB-2 and SB-3 was described as medium stiff to very stiff with unconfined strengths of 0.75 to 3.75 tsf and moisture contents of 15.8 to 19.2 percent. Below the fill, native lean, sandy, or silty clay was encountered and extended to depths of 6 to 10 feet below grade. The native clay was described as stiff to very stiff with unconfined strengths ranging from 1.0 to 2.8 tsf and moisture contents ranging from 11.6 to 23.4 percent. The clay at SB-2 was underlain by clayey sand extending to 8 feet and the sand had an N-value of 29 bpf. Below the clayey sand, presumably fractured rock with sand was encountered and extended to termination depth of 15 feet. The fractured rock had low to no sample recovery.

The asphalt at boring SB-4 was underlain by native poorly graded sand and clayey sand extending to 11 feet below grade. The sand soils were described as loose to medium dense with N-values ranging from 9 to 23 bpf and moisture contents ranging from 5.5 to 7.7 percent. Below the sand, gray sandy clay was encountered and extended to termination depth of 15 feet. The sandy clay was described as very stiff with unconfined strengths of 2.0 to 3.8 tsf and moisture contents ranging from 7.8 to 9.4 percent.

Further information regarding the soil conditions can be found on the boring logs included in the Appendix.

GROUNDWATER CONDITIONS

Groundwater was not encountered in the borings at the time of drilling. Fluctuations of the groundwater level will occur due to seasonal variations in the amount of rainfall, runoff, and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times during the lives of the structures may be different than the levels indicated on the boring logs. Also, groundwater can be perched within variable existing fill and granular materials within or above lower permeability soil. The possibility of groundwater level fluctuations and perched water should be considered when developing the design and construction plans for the project.

ENGINEERING RECOMMENDATIONS

Pipe Support and Construction Considerations

It is understood that conventional open trench installation will be used to install the new sanitary sewer. The soil conditions below the invert of the pipe consisted of stiff clay or medium dense sand, or possibly fractured rock. The stiff clay soil and medium dense sand is generally considered suitable to provide foundation support for the proposed sewer pipe and manholes. Excavation and foundation for the sewer should be completed in accordance with the Illinois Department of Transportation "Standard Specification for Road and Bridge Construction" (Standard Specifications), Section 550, Article 550.04. If unsuitable soil is encountered at the base of the trench, the unsuitable soil should be removed and replaced with the appropriate bedding material or trench backfill.

Utility Installation and Backfilling

GEOCON recommends that the sewer construction be performed in accordance with the "Standard Specification for Water and Sewer Construction in Illinois", latest edition, the IDOT Standard Specifications, or the Project Specifications, as applicable.

Trench excavations should be protected in accordance with applicable Federal, State, and local regulations, laws, and rules; but shall not be less than the standards and regulations established by OSHA 29CFR Part 1926. For trench depths greater than 5 feet, trench protection shall be utilized according to the applicable standards for workplace safety. The contractor should be required to provide, in writing, their procedures for fulfilling the safety requirements for trench protection. Excavation bracing systems should be designed by a Structural Engineer registered in the State of Illinois.

As previously stated, short term groundwater measurements obtained from bore holes at the time of drilling may not be indicative of long-term groundwater levels that may be encountered during construction. Accordingly, groundwater and surface water infiltration should be anticipated during excavation, especially if construction occurs during or after periods of increased precipitation, or if the excavations encounter areas of more permeable outwash seams or backfill soils associated with other utilities present within the utility right of way. The contractor should provide and maintain ample means and devices with which to promptly remove and properly dispose of all water entering the excavation and other parts of the work until all work to be performed therein has been completed. Adequate dewatering of the trench should be sole responsibility of the contractor and costs associated with dewatering should be included in their bid.

The trench should be backfilled in accordance with requirements of the IDOT Standard Specifications, particularly Section 550, Article 550.07. The material for pipe bedding and trench backfill should consist of wet coarse aggregate or moist fine aggregate in accordance with Article 208.02 of the Standard Specifications. Permissible material is referenced in Article 1003.04 for fine aggregate and 1004.05 for coarse aggregate. Suitable material excavated from the trench may be used as backfill, unless the backfill comprises the subgrade of a proposed improvement, and trenches where the inner edge of the trench is located within 2 feet of the edge of pavement, curb, gutter, curb and gutter, stabilized shoulder, or sidewalk. In these instances, trench backfill as specified above should be used to backfill the trench.

Where trench backfill is used, we recommend that the backfill material be deposited and compacted as specified in Method 1 of the Standard Specifications, Section 550, Article 550.07(a). The lifts should not exceed 8 inches in depth, loose measurement, and each lift shall be compacted to 95 percent of the Standard Proctor density as determined by AASHTO T-99.

GEOCON recommends protecting the sewer construction, especially compacted backfill soils, from the effects of frost when construction is carried out during cold weather. GEOCON recommends that the evaluation of the subgrade and selection of fill materials for various applications should be done in consultation with the geotechnical engineer, and placement of fill for structural applications be monitored and tested by a representative of the geotechnical engineer.

CONSTRUCTION CONSIDERATIONS

Excavations and Groundwater Control

All excavations should comply with the requirements of OSHA 29CFR, Part 1926, Subpart P, "Excavations," regarding excavation and trench safety, as well as other applicable codes. This document states that excavation safety is the sole responsibility of the contractor and accordingly reference to this OSHA requirement should be included in the project specifications. Excavation slopes shall in no case be

steeper than those specified by OSHA, and all excavations should be monitored by a competent person, as defined by the OSHA standard. Appropriate shoring or sloping techniques should be used to prevent cave-ins, and the excavation bracing system should be designed by a Structural Engineer registered in the State of Illinois using the geotechnical parameters provided herein.

Rock excavation may be required for this project and provisions for rock excavation should be included as a bid item in the contract.

Based on the results of the borings, the contractor should anticipate the presence of groundwater infiltration into the excavations, especially during periods of increased precipitation. It is recommended that appropriate dewatering equipment be utilized for this project, to control any groundwater seepage encountered during excavation, and that the construction is completed under relatively dry conditions. Installation of a lean concrete or aggregate mud mat in the bottom of the excavation is recommended to reduce disturbance to the underlying soils.

Design and implementation of an adequate dewatering system should be the sole responsibility of the contractor or their qualified dewatering subcontractor.

GENERAL COMMENTS

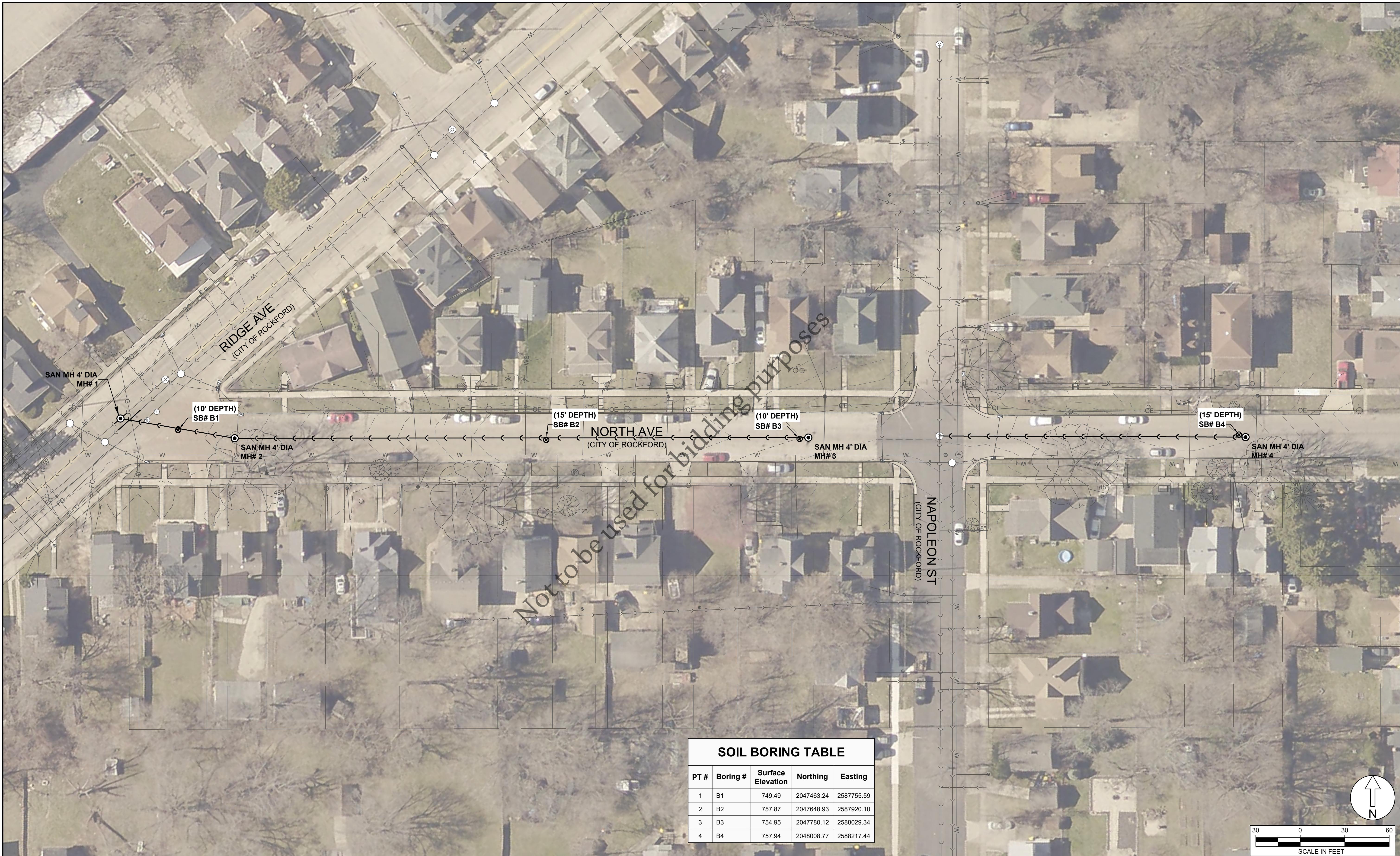
This geotechnical exploration and analysis has been conducted to aid in the evaluation of the subsurface conditions on the subject site. The recommendations presented herein are based on the available soil information obtained and the design information provided. Any changes in the soil conditions encountered during construction, design, or location should be brought to the attention of the soils engineer to determine if modifications in the recommendations are required. The final design plans and specifications should also be reviewed by the soils engineer to determine that the recommendations presented herein have been interpreted and implemented as intended. It is recommended that the earthwork and foundation operations be monitored by the Geotechnical Engineer, to test and evaluate the bearing capacities, and the selection, placement, and compaction of controlled fills.

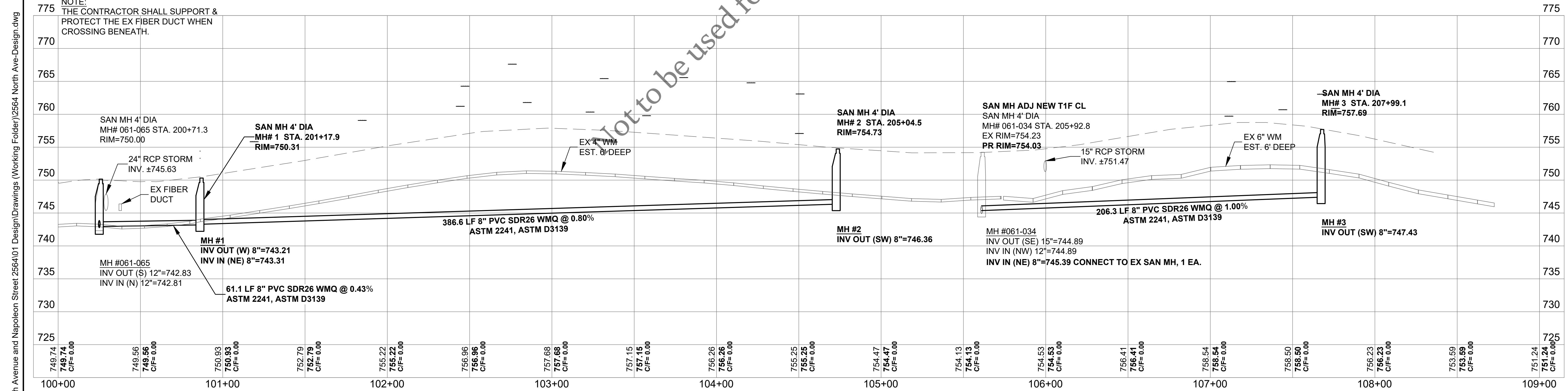
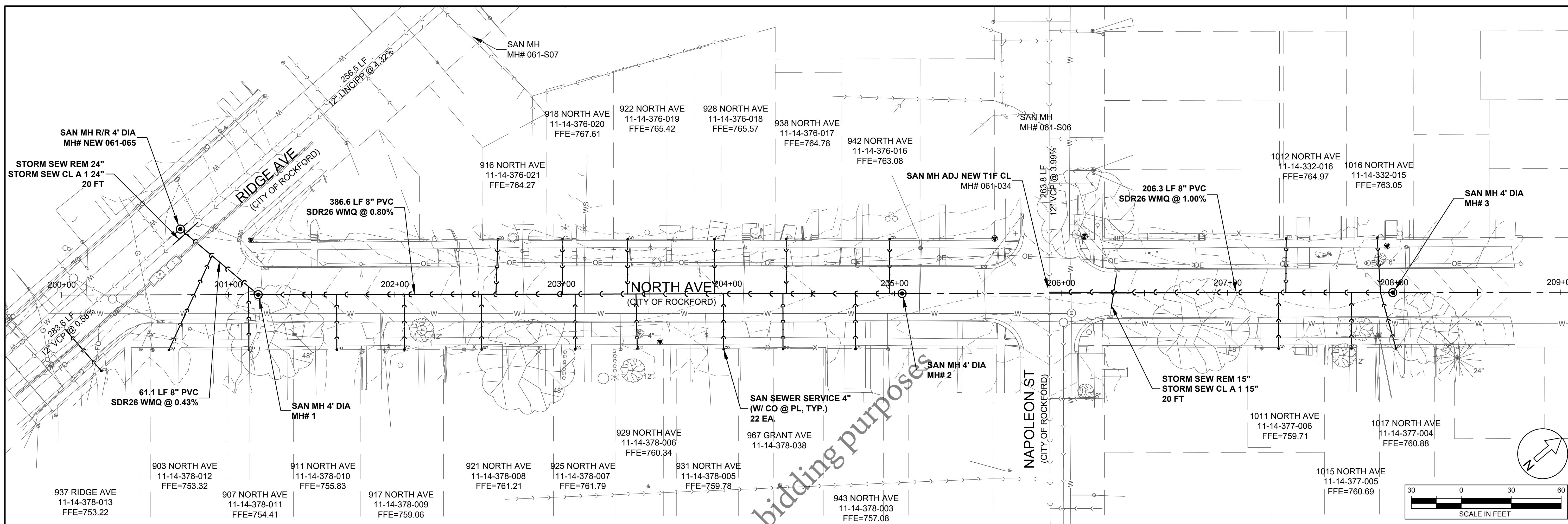
This geotechnical study has been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. The findings, recommendations, and opinions contained herein have been promulgated in accordance with generally accepted practice in the fields of foundation engineering, soils mechanics, and engineering geology. No other representations, expressed or implied, and no warranty or guarantee is included or intended in this report.

APPENDIX

Boring Locations
Soil Boring Logs
General Notes
PID Logs

Not to be used for bidding purposes





NORTH AVE PROPOSED SANITARY PROFILE



BORING NO. SB-1

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority

PROJECT NUMBER 25-G0899

DATE COMPLETED 7/16/25 LOGGED BY RB/RG

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT LOCATION North Ave., Rockford, IL 61103

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			
										DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT
0.0													
2.5	748.9		7" ASPHALT										
5.0	746.0		brown POORLY-GRADED SAND (FILL) with black clay trace gravel strong petroleum odor medium dense	SS 1	44	7-6-4 (10)			12.2				
7.5													
10.0	739.5		brown LEAN CLAY trace sand stiff	SS 2	67	2-1-2 (3)	1.25		23.4				
			trace gravel in SS3 & SS4	SS 3	100	2-2-5 (7)	1.25	1.2	18.7				
				SS 4	17	15-21-15 (36)	1.25		15.7				
			Bottom of borehole at 10.0 feet.										

COMPLETION DEPTH 10 ft GROUND ELEVATION 749.5 ft

CAVE DEPTH ft BACKFILL Soil Cuttings

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion

AFTER DRILLING ---

NOTES

Groundwater levels were recorded at the time of drilling and may not represent the groundwater conditions at the time of construction.

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



BORING NO. SB-2

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority

PROJECT NUMBER 25-G0899

DATE COMPLETED 7/16/25 LOGGED BY RB/RG

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT LOCATION North Ave., Rockford, IL 61103

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			
										DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT
0	757.4		7" ASPHALT										
			black and brown CLAY (FILL) trace asphalt grindings & gravel very stiff	SS 1	17	3-2-2 (4)	3.75		15.8				
5	754.5		brown LEAN CLAY trace sand & gravel very stiff	SS 2	100	2-3-5 (8)	2.75	2.8	14.1				
752.0			brown and gray CLAYEY SAND medium dense	SS 3	100	3-5-24 (29)			9.2				
750.0			FRACTURED ROCK and brown SAND very dense possible top of rock at 8 ft	SS 4	0	50			5.2				
				SS 5	83	50			6.5				
				SS 6	50	50							
15	743.0		Bottom of borehole at 15.0 feet.										

COMPLETION DEPTH 15 ft GROUND ELEVATION 758 ft

CAVE DEPTH ft BACKFILL Soil Cuttings

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion

AFTER DRILLING ---

NOTES

Groundwater levels were recorded at the time of drilling and may not represent the groundwater conditions at the time of construction.

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



BORING NO. SB-3

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority

PROJECT NUMBER 25-G0899

DATE COMPLETED 7/16/25 LOGGED BY RB/RG

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT LOCATION North Ave., Rockford, IL 61103

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			
										DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT
0.0													
2.5	754.4		7" ASPHALT										
5.0	751.5		black CLAY (FILL) trace sand & silt medium stiff	SS 1	67	4-2-2 (4)	0.75		19.2				
7.5	749.0		brown SANDY CLAY trace gravel stiff	SS 2	100	2-1-2 (3)	1.0	1.0	13.8				
10.0	746.5		brown and gray SANDY CLAY trace gravel stiff	SS 3	100	3-5-4 (9)	1.75	1.8	11.6				
	745.0		gray SILTY CLAY with sand trace gravel stiff	SS 4	56	3-5-6 (11)	1.75		14.2				
			Bottom of borehole at 10.0 feet.										

COMPLETION DEPTH 10 ft GROUND ELEVATION 755 ft

CAVE DEPTH ft BACKFILL Soil Cuttings

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion

AFTER DRILLING ---

NOTES

Groundwater levels were recorded at the time of drilling and may not represent the groundwater conditions at the time of construction.

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



BORING NO. SB-4

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority

PROJECT NUMBER 25-G0899

DATE COMPLETED 7/16/25 LOGGED BY RB/RG

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT LOCATION North Ave., Rockford, IL 61103

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)			UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			
							5.9	5.5	7.7			DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT
0	757.4		7" ASPHALT												
			brown and gray POORLY-GRADED SAND trace gravel loose to medium dense	SS 1	78	4-4-5 (9)									
5	752.0			SS 2	89	5-7-6 (13)									
			brown and gray CLAYEY SAND trace gravel & silt medium dense	SS 3	100	7-9-10 (19)									
10	747.0			SS 4	100	10-12-11 (23)									
			gray SANDY CLAY trace gravel very stiff	SS 5	100	5-7-8 (15)	3.75	3.8	9.4						
15	743.0		trace silt in SS6	SS 6	100	10-14-12 (26)	2.0				7.8				
			Bottom of borehole at 15.0 feet.												

COMPLETION DEPTH 15 ft GROUND ELEVATION 758 ft

CAVE DEPTH ft BACKFILL Soil Cuttings

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion

AFTER DRILLING ---

NOTES

Groundwater levels were recorded at the time of drilling and may not represent the groundwater conditions at the time of construction.

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



GENERAL NOTES

CLIENT Four Rivers Sanitation Authority

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT NUMBER 25-G0899

PROJECT LOCATION North Ave., Rockford, IL 61103

SAMPLE IDENTIFICATION

Visual soil classifications are made in general accordance with the United Soil Classification System (USCS) on the basis of textural and particle size categorization, and various soil behavior characteristics. Visual classifications should be substantiated by appropriate laboratory testing when a more exact soil identification is required to satisfy specific project applications criteria.

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487-98)

MATERIAL TYPES	CRITERIA FOR ASSIGNING SOIL GROUP NAMES			GROUP SYMBOL	SOIL GROUP NAMES & LEGEND
COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE	GRAVELS >50% OF COARSE FRACTION RETAINED ON NO 4. SIEVE	CLEAN GRAVELS <5% FINES	$C_u \geq 4$ AND $1 \leq C_c \leq 3$	GW	WELL-GRADED GRAVEL
			$C_u \geq 4$ AND/OR $1 \geq C_c \geq 3$	GP	POORLY-GRADED GRAVEL
		GRAVELS WITH FINES >12% FINES	FINES CLASSIFY AS ML OR CL	GM	SILTY GRAVEL
			FINES CLASSIFY AS CL OR CH	GC	CLAYEY GRAVEL
	SANDS >50% OF COARSE FRACTION PASSES ON NO 4. SIEVE	CLEAN SANDS <5% FINES	$C_u \geq 6$ AND $1 \leq C_c \leq 3$	SW	WELL-GRADED SAND
			$C_u \geq 6$ AND/OR $1 \geq C_c \geq 3$	SP	POORLY-GRADED SAND
		SANDS AND FINES >12% FINES	FINES CLASSIFY AS ML OR MH	SM	SILTY SAND
			FINES CLASSIFY AS CL OR CH	SC	CLAYEY SAND
FINE-GRAINED SOILS >50% PASSES NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT<50	INORGANIC	PI>7 AND PLOTS>"A" LINE	CL	LEAN CLAY
			PI>4 AND PLOTS<"A" LINE	ML	SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OL	ORGANIC CLAY OR SILT
	SILTS AND CLAYS LIQUID LIMIT>50	INORGANIC	PI PLOTS >"A" LINE	CH	FAT CLAY
			PI PLOTS <"A" LINE	MH	ELASTIC SILT
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OH	ORGANIC CLAY OR SILT
	HIGHLY ORGANIC SOILS	PRIMARILY ORGANIC MATTER, DARK IN COLOR, AND ORGANIC ODOR			PT PEAT

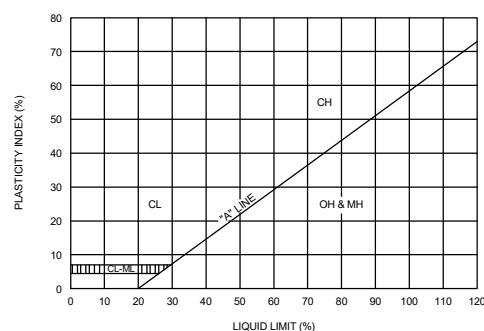
PROJECT LITHOLOGIC SYMBOLS (USCS)

ASPHALT: Asphalt	CL: USCS Low Plasticity Clay	CL-ML: USCS Low Plasticity Silty Clay
CLS: USCS Low Plasticity Sandy Clay	FILL: Fill (made ground)	GPS: USCS Poorly-graded Sandy Gravel
SC: USCS Clayey Sand	SP: USCS Poorly-graded Sand	

PROJECT SAMPLE TYPES

Split Spoon (SS)

PLASTICITY CHART



SOIL RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

NON-COHESIVE SOILS		COHESIVE SOILS		
RELATIVE DENSITY	N-VALUE*	CONSISTENCY	N-VALUE*	COMPRESSIVE STRENGTH (TSF)
VERY LOOSE	0 - 4	VERY SOFT	0 - 2	0 - 0.25
LOOSE	4- 10	SOFT	2 - 5	0.25 - 0.50
MEDIUM DENSE	10 - 30	MEDIUM STIFF	5 - 10	0.50 - 1.0
DENSE	30 - 50	STIFF	10 - 14	1.0 - 2.0
VERY DENSE	OVER 50	VERY STIFF	14 - 32	2.0 - 4.0
		HARD	OVER 32	OVER 4.0

* N-VALUE: NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1-3/8 INCH I.D.) SPLIT-BARREL SAMPLER THE LAST 12 INCHES OF AN 18-INCH DRIVE (ASTM-1586 STANDARD PENETRATION TEST).

ABBREVIATIONS

SS	- SPLIT-SPOON SAMPLE	LL	- LIQUID LIMIT (%)
ST	- SHELBY TUBE SAMPLE	PL	- PLASTIC LIMIT (%)
AU	- AUGER SAMPLE	PI	- PLASTIC INDEX (%)
MC	- MOISTURE CONTENT (%)	NP	- NON PLASTIC
-200	- PERCENT PASSING NO. 200 SIEVE	DD	- DRY DENSITY (PCF)
Qp	- POCKET PENETROMETER (TSF)	DCP	- DYNAMIC CONE PENETROMETER
Qu	- UNCONFINED STRENGTH (TSF)	IBV	- IMMEDIATE BEARING VALUE



Geocon Professional Services
22774 Citation Road, Unit A
Frankfort, IL 60423
Telephone: 815-806-9986

BORING NUMBER SB-1

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority
PROJECT NUMBER 25-G0899
DATE STARTED 7/16/25 **COMPLETED** 7/16/25
DRILLING CONTRACTOR _____
DRILLING METHOD 3.25 in. HSA
LOGGED BY RB/RG **CHECKED BY** _____
NOTES Groundwater levels were recorded at the time of drilling and may not represent water conditions at the time of construction.

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

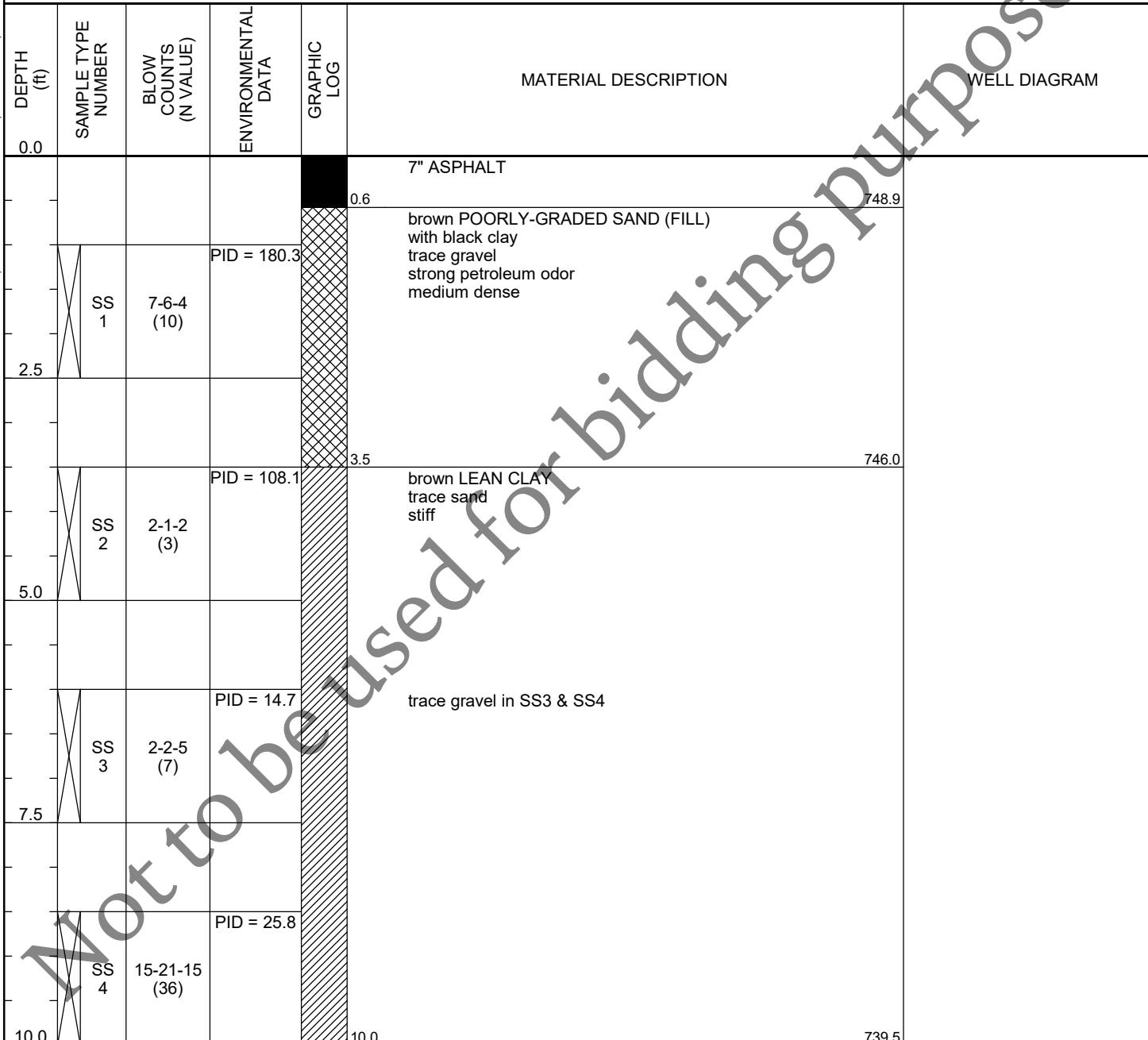
PROJECT LOCATION North Ave., Rockford, IL 61103

GROUND ELEVATION 749.5 ft **HOLE SIZE** inches

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion



Bottom of borehole at 10.0 feet.

Not to be used for bidding purposes



Geocon Professional Services
22774 Citation Road, Unit A
Frankfort, IL 60423
Telephone: 815-806-9986

BORING NUMBER SB-2

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT NUMBER 25-G0899

PROJECT LOCATION North Ave., Rockford, IL 61103

DATE STARTED 7/16/25 **COMPLETED** 7/16/25

GROUND ELEVATION 758 ft **HOLE SIZE** inches

DRILLING CONTRACTOR

GROUND WATER LEVELS:

DRILLING METHOD 3.25 in. HSA

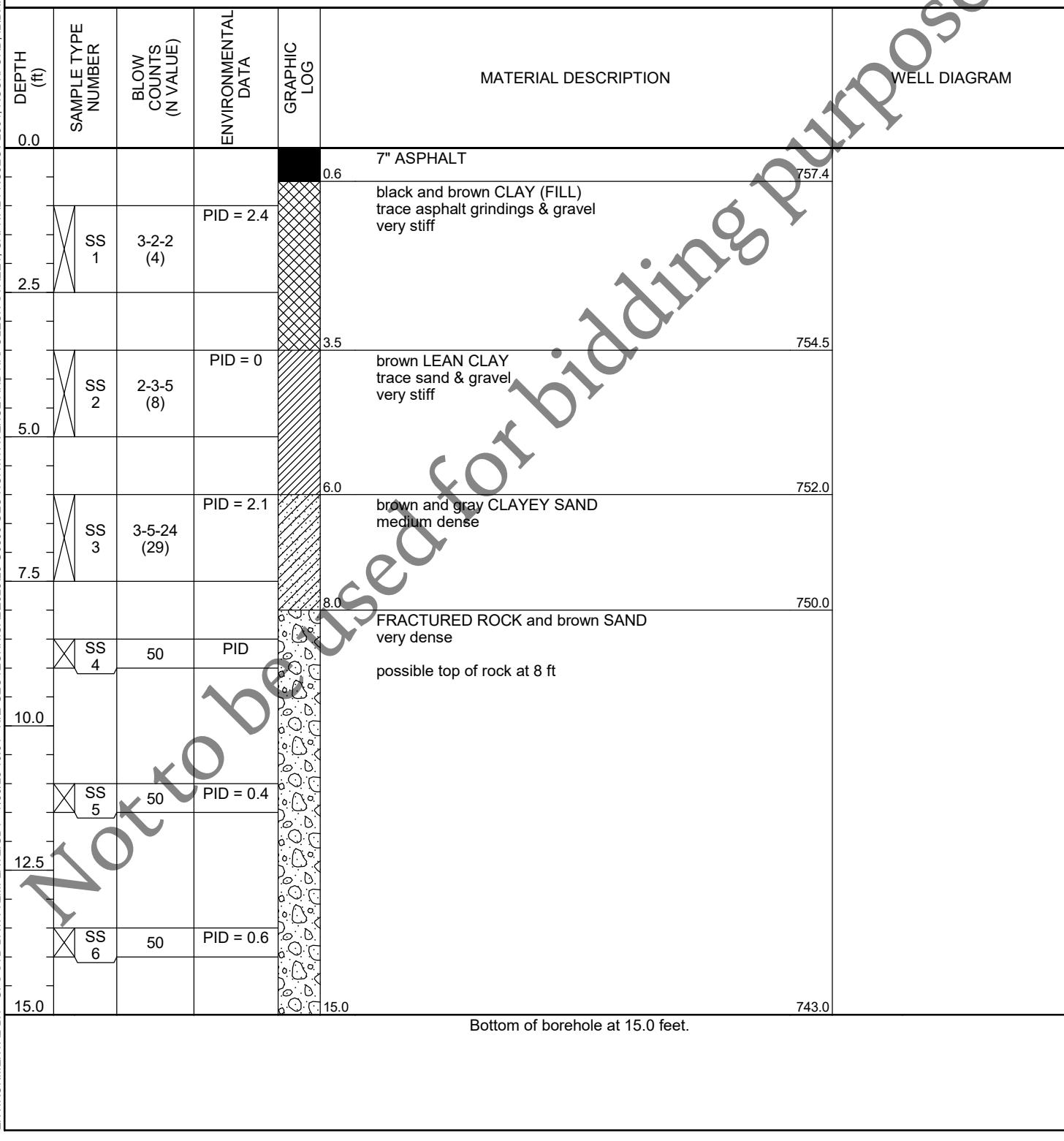
AT TIME OF DRILLING --- None

LOGGED BY RB/RG **CHECKED BY**

AT END OF DRILLING --- Dry upon completion

NOTES Groundwater levels were recorded at the time of drilling and may not represent water conditions at the time of construction.

NOTES Groundwater levels were recorded at the time of drilling and may not represent water conditions at the time of construction.





Geocon Professional Services
22774 Citation Road, Unit A
Frankfort, IL 60423
Telephone: 815-806-9986

BORING NUMBER SB-3

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

PROJECT NUMBER 25-G0899

PROJECT LOCATION North Ave., Rockford, IL 61103

DATE STARTED 7/16/25 **COMPLETED** 7/16/25

GROUND ELEVATION 755 ft **HOLE SIZE** inches

DRILLING CONTRACTOR

GROUND WATER LEVELS:

DRILLING METHOD 3.25 in. HSA

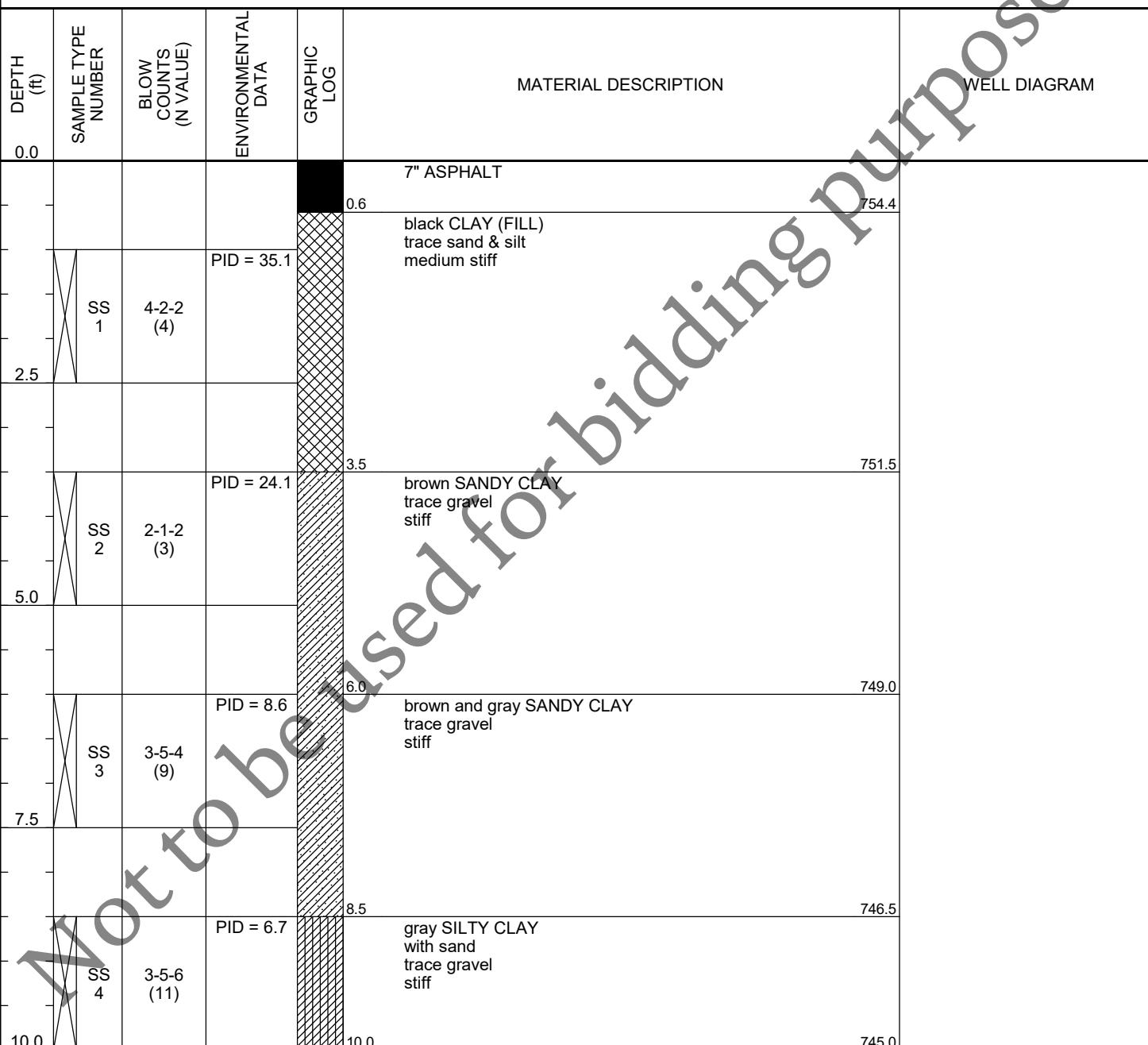
AT TIME OF DRILLING --- None

LOGGED BY RB/RG **CHECKED BY**

AT END OF DRILLING --- Dry upon completion

NOTES Groundwater levels were recorded at the time of drilling and may not represent water conditions at the time of construction.

AFTER DRILLING



Bottom of borehole at 10.0 feet.



Geocon Professional Services
22774 Citation Road, Unit A
Frankfort, IL 60423
Telephone: 815-806-9986

BORING NUMBER SB-4

PAGE 1 OF 1

CLIENT Four Rivers Sanitation Authority
PROJECT NUMBER 25-G0899
DATE STARTED 7/16/25 **COMPLETED** 7/16/25
DRILLING CONTRACTOR _____
DRILLING METHOD 3.25 in. HSA
LOGGED BY RB/RG **CHECKED BY** _____
NOTES Groundwater levels were recorded at the time of drilling and may not represent water conditions at the time of construction.

PROJECT NAME North Ave. & Napoleon St., Capital Project #2564

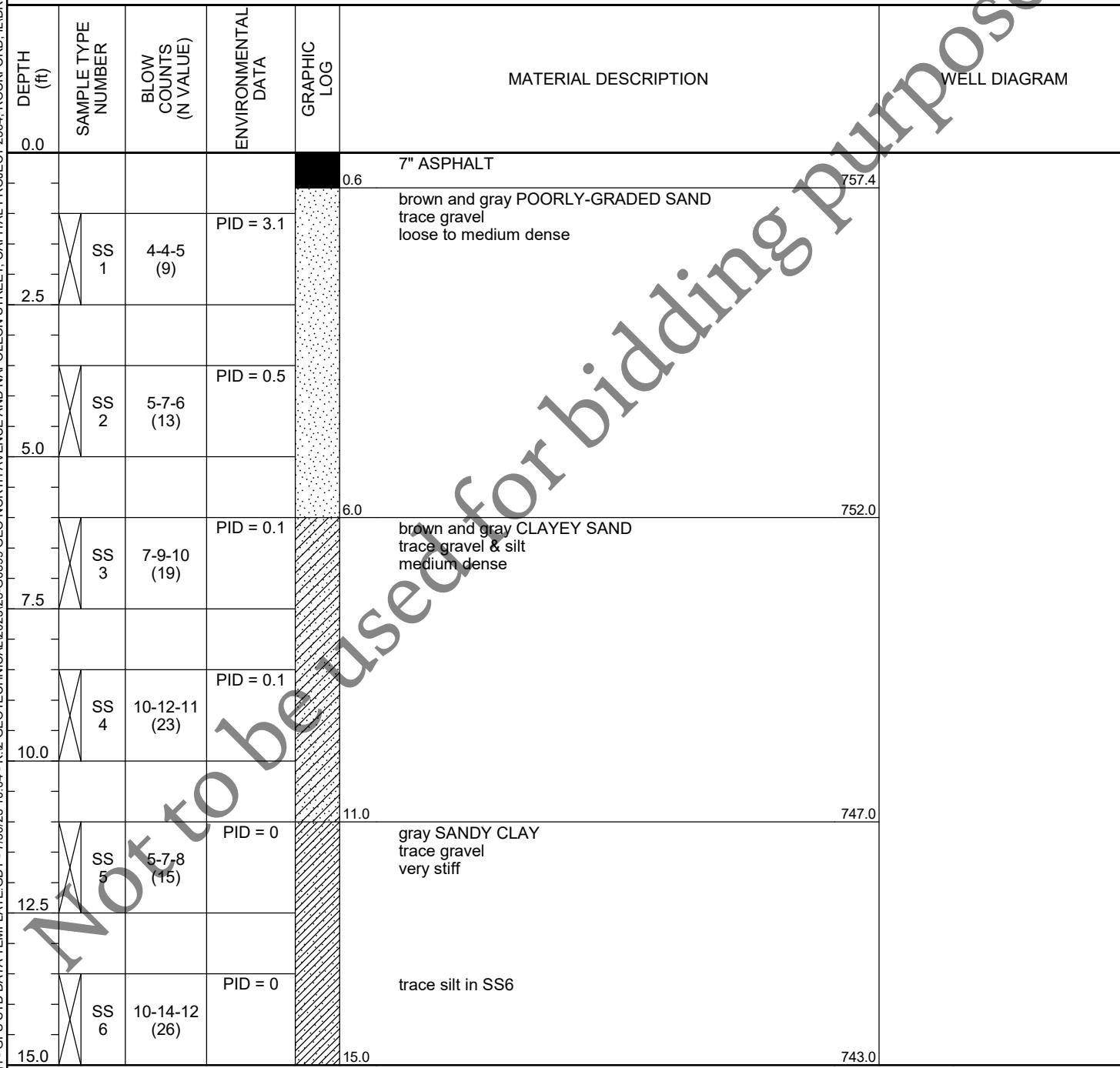
PROJECT LOCATION North Ave., Rockford, IL 61103

GROUND ELEVATION 758 ft **HOLE SIZE** inches

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion



Bottom of borehole at 15.0 feet.

Not to be used for bidding purposes

Section IV

City of Rockford Right-of-Way Permit Application

Not to be used for bidding purposes

2025

Right of Way Permit Application



Not to be used for bidding purposes





City of Rockford, Illinois

Public Works Department

Engineering Division

425 East State Street, Rockford, IL 61104 Phone:

779-348-7174 Fax: (815) 967-7058

Web: www.rockfordil.gov



RIGHT-OF-WAY PERMIT APPLICATION

(Permit applies, but is not limited to, the following activities within the City right-of-way: tunnel, bore, excavate, dig, lane closures, sidewalk closures, etc.)

PERMIT FEE: \$52.00 (additional \$52 fee for lane closures)

(FEE WAIVED FOR PUBLIC UTILITIES)

ADDITIONAL FEES FOR UNDERGROUND BORING ONLY:

- 0-100 FEET - NO CHARGE
- 101-499 FEET - \$310.00 ADDITIONAL FEE
- 500 AND OVER - \$.10/ per foot ADDITIONAL FEE

(DATE OF APPLICATION)

(APPLICANT NAME - PLEASE PRINT)

UTILITY CONTRACTOR CONSULTANT PROPERTY OWNER

(APPLICANT IS - CHECK ONE BOX)

(APPLICANT ADDRESS)

(PHONE)

(FAX)

(IF BUILT BY A CONTRACTOR GIVE NAME & ATTACH PROOF OF BOND AND INSURANCE)

(CONTRACTOR ADDRESS - PLEASE PRINT)

(ADDRESS)

(PHONE)

(FAX)

(DESCRIPTION OF WORK - EXAMPLES: BURY 125'OF 4" GAS MAIN; ACCESS MANHOLE; INSTALL SEWER/WATER SERVICE; LANE CLOSURE; ETC.)

PAVEMENT ALLEY SIDEWALK TERRACE CURB

(LOCATION OF WORK - STREET NUMBER & STREET NAME)

IF IN PAVEMENT WHAT TYPE: CONCRETE ASPHALT BRICK

(WORK IS LOCATED BETWEEN THESE TWO CROSS STREETS)

THRU

a.m.

p.m.

(REQUESTED DATES FOR WORK)

(WORK HOURS)

ARE ANY PAVEMENT CUTS REQUIRED? YES NO

IF YES IS LOCATION ON 5 YEAR ROAD MORATORIUM? YES NO

(NOTE: IF PAVEMENT CUT IS AUTHORIZED AT LOCATION LISTED ON 5 YEAR ROAD MORATORIUM, FULL LANE RESTORATION WILL BE REQUIRED.)

The above applicant requests permission to excavate and/or occupy the public right-of-way in the City of Rockford and agrees to indemnify, hold harmless, and defend the City of Rockford, its officers, agents, and employees, from any and all claims resulting from injuries, including death, damages or losses, including, but not limited to the general public, which may arise or which may be alleged to have arisen out of, or in connection with such excavation and occupancy. I hereby agree to perform the work in accordance with the provisions, specifications and requirements of all of the following:

- Chapter 26, as revised, of the City of Rockford, Code of Ordinance.
- IDOT's Standard Specifications for Road and Bridge Construction, as revised.
- The Standard Specifications for Water and Sewer Construction in Illinois, as revised.
- Traffic control shall always be provided by the applicant or contractor and will be in accordance with the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, as revised. A traffic control plan and standard details may be required based on the Engineer's or designee's discretion. 48 hours notice is required for closures.
- Accessibility requirements shall be in accordance with the Illinois Accessibility Code and a current IDOT Standard shall be submitted with the application when applicable.
- Erosion & sediment control shall be in accordance with all requirements set forth in the current revision of the General NPDES Permit No. ILR10. Stabilization measures must be initiated within seven (7) days after construction activities have temporarily or permanently ceased.
- All other federal, state, and local requirements as they may apply.

THE FOLLOWING ITEMS ARE TO BE SUBMITTED WITH THE APPLICATION:

- CERTIFICATE OF INSURANCE - \$3,000,000 per occurrence, City of Rockford listed as additional insured, and valid through the permit period.
- CERTIFICATE OF BOND - \$50,000 limit, acceptable forms are Right-of-Way and License & Permit, City of Rockford listed as Obligee, and valid through the permit period.
- PROJECT DESCRIPTION - including site plan / drawings and schedule for all activities taking place in the public right-of-way including dimensions of pavement cuts.
- TRAFFIC CONTROL PLAN - Any closure of streets or sidewalks shall require a traffic control plan to be submitted.

(AUTHORIZED REPRESENTATIVE SIGNATURE)

(AUTHORIZED REPRESENTATIVE PRINTED NAME)

FOR INTERNAL USE ONLY

APPROVED BY: _____ START DATE: _____ EXPIRES: _____

APPROVAL DATE: _____ PERMIT FEE: _____ PERMIT #: _____

(PAY CODE - 10101000-61403)

J.U.L.E. locates that take place in newly constructed areas, in the downtown districts or on specialty surfaces (ie. decorative brick, brick pavers, etc.) will need to be done in a manner where they do not leave lasting marks on the surface. SPRAYPAINT WILL NOT BE USED. The applicant of the permit will be responsible for removal of any marks or damages done to these surfaces.

Section V

**General Provisions & Technical
Specifications for Sanitary Sewer
Construction**

(Separate document incorporated by reference)