

Four Rivers Sanitation Authority Rockford, Illinois

Bidding Requirements and Contract Forms

for

N. Rockton Avenue Trunk Sewer Repair

Capital Project No. 2335

Not to be used for bidding purposes

Four Rivers Sanitation Authority Rockford, Illinois

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

for

N. Rockton Avenue Trunk Sewer Repair

Capital Project No. 2335

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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 N. Rockton Avenue Trunk Sewer Repair, Capital Project No. 2335, at the Steve Graceffa Administration Building (Administration Building) at 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Wednesday, July 13, 2022 at which time and place responsive / responsible bids will be publicly opened and read aloud.

The N. Rockton Avenue Trunk Sewer Repair project consists of removal and replacement of approximately 70 LF of existing 18" diameter sanitary sewer and one (1) 5' drop manhole. Work shall also include bypass pumping, removal and replacement of existing 36" diameter storm sewer piping, site restoration, and all appurtenances as indicated in the Contract documents.

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 September 15, 2022. 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.

All construction shall be done in accordance with specifications on file with FRSA, including the *General Provisions and Technical Specifications for Sanitary Sewer Construction, Rock River Water Reclamation District* (Current Edition).

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount of ten percent (10%) 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 23 day of JUNE, 2022.


BY: Timothy S. Hanson, Executive Director

Not to be used for bidding purposes

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

This section of the Contract Documents is concerned with furnishing 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 contradiction 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.

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://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. 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 "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 101-0221 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:

1. suits, claims, or actions
2. costs, either for defense (including but not limited to reasonable attorney's fees and expert witness fees) or for settlement

3. 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 opening of bids, 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

No bidder may withdraw his bid after the scheduled closing time for receipt of bids, for at least sixty (60) days.

The Contract will be awarded, if at all, to the lowest responsive, responsible bidder. Four Rivers Sanitation Authority also reserves the right to reject any or all bids.

The bidder whose Proposal is accepted shall enter into a written Contract for the performance of the work and furnish the required bonds and insurance certificate within ten (10) days after written notice by FRSA's Director of Engineering has been served on such bidder personally or by mailing a postpaid wrapper to such bidder at the address given in his proposal. 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 the notice, the amount of his deposit shall be forfeited and shall be retained by the 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 the 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:

1. All insurance policies shall be specific to the project.

2. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for N. Rockton Avenue Trunk Sewer Repair, Capital Project no. 2335.
3. FRSA shall be named as Additional Insured in all policies; this shall include the Owners' Contractors' Protective Policy option.
4. 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:

1. 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.
2. 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.
3. 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.
4. 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.
5. 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:

- a. 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.
- b. 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.

- c. 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.
- d. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to FRSA, its officers, officials, employees, volunteers, or agents.
- e. 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.
- f. 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.

- 1. 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.
- 2. Financial Size Rating: Provided an insurer's alphabetical rating is satisfactory, FRSA will examine said insurer's financial size rating.
 - a. If Best classifies the insurer XII or larger, said insurer shall be acceptable to FRSA.
 - b. 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 applicable taxes in his bid price.

Not to be used for bidding purposes

Article 3 – Detailed Specifications

1 General

This article contains detailed specifications related 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. All work shall conform to current editions of the following: *Standard Specifications for Water and Sewer Main Construction in Illinois*, *Four Rivers Sanitation Authority (FRSA) General Provisions and Technical Specifications for Sanitary Sewer Construction*, and the *Illinois Department of Transportation's (IDOT's) Standard Specifications for Road and Bridge Construction*.

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

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

Utility locations displayed in *Section III* are based on records of unknown reliability 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 all utility locations.

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

Any construction not supervised by a Four Rivers Sanitation Authority (FRSA) Inspector will not be accepted.

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

The 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. The FRSA shall not be responsible for the Contractor's failure to perform or furnish the work in accordance with the Contract documents.

2 Notification, Access, and Special Considerations

2.1 Notification

The Contractor shall notify all utility companies prior to beginning any work. All underground utilities shall be located by the utility owner and special care shall be taken when excavating near underground utilities to avoid damage. Contractor shall call JULIE at

(800) 892-0123 for utility locations in the project area, forty-eight (48) hours, minimum, prior to construction. More advanced notification shall be provided if required by permits.

The Contractor shall notify the FRSA, all affected property and business owners, and all applicable roadway authorities forty-eight (48) hours, minimum, prior to beginning any work. More advanced notification shall be provided if required by permits.

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 construction tools between the hours of 10:00 PM and 7:00 AM within 600' of any residential building).

2.2 Access

The Contractor shall be responsible for the temporary maintenance of all roadways and drives for the duration of this project and shall maintain access to residences and businesses at all times during construction (i.e., drives, roadways, ramps, etc., must remain open or temporary access must be provided). All materials, equipment, labor, etc., necessary to ensure access is maintained shall be incidental to the Contract.

It shall be the Contractor's responsibility to secure any temporary or permanent access, storage or construction easements from property owner(s) deemed necessary to perform the work as shown on the plans or defined in the specifications.

2.3 Special Considerations

Site specific considerations are indicated on the location maps provided in *Section III*. Special considerations include, but are not limited to, the following:

1. At a minimum, the Contractor shall notify the Rockford Park District 48 hours prior to mobilizing to the site. Contact Tim Bragg at 815.987.8865, timbragg@rockfordparkdistrict.org.
2. The contractor shall notify the City of Rockford Storm Water Team 48 hours prior to storm sewer work. Contact Brad Holcomb, brad.holcomb@rockfordil.gov, and Jeremy Mitchell, Jeremy.mitchell@rockfordil.gov.
3. The contractor shall notify the owner of 3150 N. Rockton Avenue, Sadda Rockford, LLC, 48 hours prior to mobilizing to the site. Contact Rashid Sindhu @ 312.217.0097.
4. Clearing and tree removal shall be measured and paid for as specified elsewhere herein.

2.4 Required Submittals – Not Used.

2.5 Payment

No separate payment will be made for notification, access, and special considerations. All costs shall be incidental to the Sanitary Sewer pay items.

3 Remove and Replace Sanitary Manholes

3.1 General

Work under this item shall include all labor, equipment, and materials, required to remove existing sanitary manholes and construct pre-cast concrete sanitary manholes including connecting to existing sanitary sewers in accordance with the FRSA's *Standard Detail Sheet* and *General Provisions and Technical Specifications*.

Removal and disposal of existing sanitary manholes shall conform to *Sections 605.03 and 605.05* of *IDOT Standard Specifications*.

The Contractor shall construct a paved manhole bench per the FRSA's *Standard Detail Sheet* or as directed by FRSA. Manhole benches shall have a minimum slope of two inches (2") per foot.

Pipe connections to new manholes shall be made by means of a watertight flexible pipe to manhole connector meeting the requirements of ASTM C923. The design shall be in accordance with the manhole and pipe manufacturer requirements and shall receive prior FRSA approval. All sanitary manholes twenty-two feet (22') deep or more shall use pipe-to-manhole gaskets rated to a minimum of 15 psi hydrostatic pressure (A LOK model X-CEL or FRSA-approved equivalent).

Manholes identified with drop connections shall utilize an inside drop bowl assembly as manufactured by Reliner-Duran, Inc. Drop connections shall be sized in accordance with the manufacturer's recommendations. All mounting and connecting hardware shall be constructed of stainless steel.

All connections to the new manholes shall be made with PVC SDR 35 Pipe (ASTM 3034) diameters of 8" through 15", and ASTM F679 for diameters of 18" through 36". A minimum of 5.0' of new PVC pipe shall be installed at each connection to existing sanitary sewer.

Work includes furnishing and installing a FRSA-approved manhole frame and lid (Neenah R-1670, 0358 or 2008 or R-1915-2101 bolt down) adjusted to grade as indicated in *Section III*. Contractor shall field-verify all proposed rim elevations. FRSA-approved manhole steps shall be provided with a maximum spacing of 16". No more than thirty inches (30") from the top of casting to the first step will be allowed.

The top of the pre-cast cone section shall be at an elevation to allow for adjustment of frame (12" maximum) without disturbing the cone section.

Unless otherwise specified or shown, manhole frames shall be set at one inch (1") above finish grade in turf areas and at finished grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness for concrete adjustment rings shall be four inches (4"). Maximum ring thickness shall be twelve inches (12"). Concrete adjustment rings shall conform to ASTM C478 and ASTM C139, latest revision. Concrete for adjusting rings: Class "A" as specified in T.S. 5:3(a) in the FRSA's *General Provisions and Technical Specifications for Sanitary Sewer Construction*. If adjustment less than 4" is required, expanded polypropylene (EPP) rings are required.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring).

No adjusting rings are required for manholes in turf areas or with roadway having curb and gutter.

When a manhole frame requires pitching to match the road grade, a tapered expanded polypropylene (EPP) ring must be used. Final manhole adjustment shall meet additional requirements of the applicable roadway authority.

The Contractor shall install a FRSA-approved external chimney seal on all proposed manholes as indicated on the *Standard Detail Sheet*. The Contractor shall install FRSA-approved external seals on all manhole barrel section joints (Cretex Mac Wrap or CANUSA Wrapid Seal).

All new manholes shall be vacuum tested per *ASTM C1244-93 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test* prior to placing into service.

The Contractor shall be responsible for verifying all manhole depths, pipe slopes and angles.

3.2 Submittals

1. 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 invert elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.
2. Manhole frames and lid material specifications.
3. Chimney seal material specifications.
4. Barrel joint seal material specifications.
5. Manhole-to-pipe connection seal material specifications.
6. Manhole step material specifications.
7. Sealant material specifications.
8. Drop assembly material specifications (as applicable).

3.3 Payment

Payment for this work will be made at the Contract unit price per each (EA) for Remove and Replace Sanitary Manhole of the diameter and type specified.

4 Remove and Replace Sanitary Sewers

4.1 General

The work under this item includes all labor, equipment, and materials for removing and disposing of existing sanitary sewer piping and furnishing and installing new sanitary sewer pipe on grade and in line according to the plans and specifications. This item shall also include all fittings, couplings, adapters, riser pipes and any other item needed to satisfactorily install and test the new sanitary sewer.

Excavation, dewatering, bedding, and backfilling shall be incidental to the sanitary sewer installation and shall conform to FRSA *General Provisions and Technical Specifications*.

All sanitary sewer abandonment work needed whether in place or by removal and disposal to facilitate the proposed sanitary sewer installations shall be incidental to the new sewer construction. Pipes being abandoned in place shall be bulkheaded with concrete plugs at the removal limits. All costs associated with bulkheading shall be incidental to the new sanitary sewer construction.

The Contractor shall be solely responsible for setting and maintaining proper elevations, lines, and grades for all work. The FRSA shall not be obliged to establish construction grade or alignment. The Contractor shall provide at least one laser device for setting lines and grades of sub-grade and pipe inverts during all phases of construction. The device(s) shall be of acceptable design and maintained in good working condition for the duration of the project. The Contractor shall employ workers competent in the setup and operation of said device(s). Said device(s) shall be operated at no extra cost to the FRSA.

The Contractor shall have a calibrated level and rod available on site at all times for FRSA to use when needed.

Sanitary sewer pipe and pipe-laying methods must conform to the requirements of the FRSA's *General Provisions and Technical Specifications* and as stated elsewhere herein.

Connections to existing sanitary sewers, shall be made to structurally sound pipe using FRSA-approved transition couplings.

4.2 Materials

8" through 15" diameter pipe shall be SDR 35 PVC pipe meeting the requirements of ASTM D3034. Joints shall conform to ASTM D3212.

18" and larger diameter pipe shall be PS46 PVC pipe meeting the requirements of ASTM F679. Joints shall conform to ASTM D3212.

Clay-to-PVC and Cast-Iron or Ductile Iron-to-PVC pipe transition couplings shall be Fernco 5000 or LDC series (as required by pipe diameter), Mission Flex-Seal ARC shear resistant or other FRSA-approved repair couplings made of flexible PVC compound with 316 stainless steel clamps and stainless-steel rings. Transition couplings shall conform to the applicable sections of ASTM D5926 and C1173.

4.3 Required Submittals

1. Pipe material specifications.
2. Fitting, coupling, and adapter specifications as applicable.

4.4.4 Payment

Measurement for payment shall be horizontal along the centerline of the installed pipe from center-of-manhole to center-of-manhole or center-of-coupling.

Payment for this work will be made at the Contract unit price per linear foot (LF) for Remove and Replace Sanitary Sewer, of the diameter specified.

5 Rock Excavation

5.1 General

This item shall consist of furnishing all labor, equipment, tools, transportation, materials and operations needed to excavate, remove and dispose of rock material during the construction of the proposed project.

The Contractor shall demonstrate to the FRSA that the material encountered while excavating within the lines and grades shown on the plans within the designated limits of payment as described in T.S. 2:3 of the *General Provisions and Technical Specifications for Sanitary Sewer Construction* is not able to be removed employing conventional excavation methods and equipment. This demonstration shall be completed before the subsurface material is classified as rock. The following criteria will be used in the determination of whether or not the material will qualify rock excavation:

1. The guidelines and requirements of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.
2. A substantial reduction in production rate.
3. Visual evidence of large boulders, rock, granite, trap, quartzite, chert, limestone, hard sandstone, 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.

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).

5.2 Payment

Measurement: The limits of what will qualify as rock excavation will be determined by the FRSA in the field. The maximum payable trench width shall be the nominal pipe size plus eighteen inches (18") for 8" to 24" diameter pipes or the nominal pipe size plus twenty-four inches (24") for pipe sizes greater than 24" diameter. The maximum payable radius used to calculate volume of rock removed for manhole installation shall be the inside radius of the manhole plus twenty-four inches (24"). No additional payment will be made for

extra rock excavation desired for work area enhancement or for areas needed to facilitate manhole or vault installations.

Payment for this work will be made at the contract unit price per cubic yard (CY) of Rock Excavation.

6 Bypass Pumping

6.1 General

The Contractor shall provide bypass pumping and shall be responsible for providing all piping, valves, pumps, power, fuel, plugs and other items needed to divert the flow of wastewater as required to complete proposed work.

All pumping systems shall have sufficient capacity to accommodate peak flows. The Contractor shall provide sufficient inspection personnel to ensure that no surcharging and no backups occur. If pumping is required on a 24-hour basis, the equipment noise levels shall be restricted to ninety decibels (90 dB) or less.

All bypassed flows must be discharged to sanitary manholes approved by FRSA.

The Contractor shall be responsible for providing the current level of service to all affected properties and shall be liable for any damage caused by sewer back-ups resulting from this project.

6.2 Submittals

1. Temporary piping and valve specifications.
2. Pump specifications.
3. Temporary pipe and fitting specifications.
4. Details of temporary pipe alignment, including suction and discharge details.

6.3 Payment

Payment for this work will be made at the contract lump sum (LS) price for Bypass Pumping.

7 Dewatering

7.1 General

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

Groundwater will not be allowed to be discharged into existing sanitary sewers or pumped onto existing ground surfaces or pavements where it may cause a traffic nuisance. All discharge points shall be acceptable to the FRSA, with all erosion control requirements and specifications considered.

The Winnebago County Department of Public Health (Health Department) requires permits for dewatering well points. The installation, operation, and removal of well points shall conform to the Health Department requirements. The Health Department shall be notified prior to installing dewatering wells and prior to abandonment of well points so that they may be present if they desire; contact 815-720-4000.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be his/her responsibility to provide any bonds, insurance, guarantees, etc., as required by said permit(s). Abandonment of dewatering facilities shall be performed in accordance with pertinent State and County requirements.

If generators are required to run on a twenty-four (24) hour basis, equipment shall be restricted to operate at noise levels of ninety decibels (90 dB) or less.

7.2 Submittals

1. Copy of permits, as applicable.

7.3 Payment

No separate payment will be made for dewatering. All costs shall be incidental to the Sanitary Sewer pay items.

8 Bedding, Backfill and Compaction

8.1 General

8.2 Pipe Bedding

Pipe bedding for PVC pipe shall be Class IA per ASTM Standard D2321. The trench bottom shall be bedded with a minimum of six inches (6") of crushed stone foundation. Crushed stone shall be placed to a minimum of twelve inches (12") above the top of the pipe, as shown on the FRSA's *Standard Detail Sheet*.

Bedding shall be graded such that it precludes the migration of trench wall materials into the bedding; the FRSA shall approve the bedding material after the characteristics of the trench are determined.

If the water table is above the bottom of the pipe bedding, or the trench bottom is unstable or unsuitable, as determined by the FRSA, a porous granular foundation meeting *IDOT Standard Specifications* of CA-5 or CA-3 stone shall be installed as necessary below the granular bedding material, extending to the limits of the bedding diagram at no extra cost to the FRSA.

Should boulders, frozen material, etc., which could damage the pipe be present in the native backfill material, the Contractor shall bring the bedding material to a point twenty-four inches (24") above the crown of the pipe (cost incidental).

8.3 Backfill and Compaction

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 General Provisions and Technical Specifications T.S. 2:4-c.

The materials and compaction shall be in accordance with *Section 208* and *550.07*, Method 1 of the *IDOT Standard Specifications*.

For granular backfill, The Contractor must use a vibratory plate or other approved equipment-mounted compaction equipment to compact the backfill in lifts not to exceed eighteen inches (18"). Water-jetting, ponding, or flooding will not be permitted as a means of trench compaction.

All select trench backfill shall be compacted to ninety-five percent (95%) of Proctor density; all other backfill shall be compacted to ninety percent (90%) minimum of Proctor density. Contractor shall provide third-party confirmation of subgrade compaction as directed by the FRSA.

The Contractor shall furnish a backhoe and operator during the testing of the backfill placed during construction. All compaction tests will be performed at the Contractor's expense by an approved, independent geotechnical firm. If the tests do not meet the compaction requirement specified above, the area shall be 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 method, equipment, or material changes. The final lift forming the sub-grade must be tested.

In trenches not requiring select trench backfill, no excavated material larger than eight inches (8") in any dimension shall be used in the backfill.

Contractor shall properly dispose of all spoil at no additional cost to the FRSA. The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations.

The Contractor shall provide a three (3) year guarantee against trench settlement throughout this project upon completion of construction.

8.4 Submittals

1. Pipe bedding material grading certifications.
2. Select trench backfill material gradation certifications, and Proctor test results for use in density testing.

8.5 Payment

No separate payment will be made for bedding, backfill, and compaction. All costs shall be incidental to the Sanitary Sewers pay items.

9 HMA Pavement Removal and Replacement

9.1 General

This item shall consist of furnishing all labor, equipment, tools, materials, and operations required to sawcut, remove and dispose of existing hot-mix asphalt (HMA) pavement, install and prepare aggregate base course, and place new HMA pavement.

The work shall be performed to the satisfaction of the FRSA and jurisdictional roadway authority. All roadway authorities shall be notified a minimum of forty-eight (48) hours prior to pavement replacement. At the discretion of the FRSA, maintenance and temporary restoration of roads, drives, fences, etc., will be required; this work shall be done by the Contractor without delay.

9.2 Pavement Removal

Pavement removal shall conform to *Section 440 of IDOT Standard Specifications*. Pavement shall be saw-cut full depth prior to removal. Remaining pavement edges shall be square or rectangular in shape and shall be protected from damage.

9.3 Aggregate Base Course, Type B

Aggregate Base course replacement shall consist of matching existing thickness or placing twelve inches (12") minimum thickness, whichever is greater, compacted Aggregate Base Course, Type B, beneath pavement surfaces to be replaced throughout the project area. This item shall include all subgrade preparation needed, as well as the removal and disposal of all excess material.

Contractor shall compact the base course and provide an adequate number of compaction tests as determined by the FRSA and Roadway Authority. Compaction tests must be performed as work progresses. All compaction tests must meet 95% of standard Proctor density, and be performed by an approved independent geotechnical company.

Contractor shall remove and dispose of all excess materials to a location acceptable to the FRSA.

9.4 HMA Pavement

All Bituminous pavement replacement shall be constructed in accordance with *Section 406 of IDOT Standard Specifications*.

Mix designs and materials inspection reports must be submitted and approved by the jurisdictional roadway authority prior to installation.

Minimum pavement section shall be three inches (3") of HMA surface course placed in two (2) separate compacted lifts.

HMA surface course shall be mixture composition IL 9.5, Mix D, N50.

All pavement restoration shall match existing surface types and grades. The Contractor shall be responsible for performing all surveying work necessary to reconstruct the roadway and base course to the lines and grades that existed prior to the project, or as otherwise specified herein.

9.5 Submittals

1. HMA mix design
2. PCC Pavement mix design.
3. Aggregate base course gradation.

9.6 Payment

Payment for this work will be made at the contract unit price per square yard (SY) of Remove and Replace HMA Pavement.

10 Remove and Replace Storm Sewers

10.1 General

The work under this item includes all labor, equipment, and materials for removing and disposing of existing storm sewer piping and furnishing and installing new storm sewer pipe on grade and in line according to the plans and specifications. This item shall also include all couplings, adapters, and any other item needed to satisfactorily install the new storm sewer piping.

10.2 Removal

Removal of existing storm sewer piping shall be in accordance with *Section 551.03 of IDOT Standard Specifications*. Any pipe removed that is deemed salvageable by the FRSA may be salvaged for reinstallation.

10.3 Installation

Installation of storm sewer shall be in accordance with *Section 551.04* and applicable requirements of *Section 550 of IDOT Standard Specifications*. If pipe is not salvageable new pipe shall be furnished and installed at no additional cost to the Contract.

10.4 Materials

Replacement storm sewer piping shall be Class III reinforced concrete pipe (RCP) conforming to ASTM C-76 with joints conforming to ASTM C-443/C-1628.

10.5 Payment

Measurement for payment shall be horizontal along the centerline of the installed pipe from center-of-repair coupling to center-of-repair coupling.

Payment for this work will be made at the Contract unit price per linear foot (LF) of Remove and Replace Storm Sewer, of the diameter specified.

11 Remove and Replace Chain Link Fence

11.1 General

The work under this item includes all labor, equipment, and materials for removing and disposing of existing chain link fence as required to perform sanitary sewer work within existing easement and furnishing and installing new chain link fence if existing fence cannot be salvaged.

11.2 Removal

Removal limits shall be kept to a minimum and must be marked in the field by FRSA prior to Contractor performing any removals. Contractor may salvage fencing components for reinstallation. Any damaged components, as determined by the FRSA shall be disposed of replaced by the Contractor.

11.3 Installation

Chain link fence installation shall conform to *Section 664 of IDOT Standard Specifications*.

11.4 Materials

All new materials and components shall be in accordance with *Section 1006.27 of IDOT Standard Specifications*.

Fabric shall be Type I, Class D (zinc-coated steel).

Tubing shall be 1 3/8" outside diameter galvanized pipe.

Finished fence height shall be four feet (4').

11.5 Payment

Payment for this work shall be made at the contract unit price per linear foot (LF) of Remove and Replace Chain Link Fence, 4' Height.

12 Clearing and Tree Removal

12.1 General

The Contractor shall trim and remove only those trees required to complete the proposed sanitary work. Tree trimming and removal shall be kept to a minimum.

Tree removal shall consist of cutting, clearing, grubbing, removing, and disposing of any trees, stumps, brush and chips as needed to properly facilitate construction. Only trees approved by the FRSA for removal shall be removed. This work shall conform to *Section 201 of IDOT Standard Specifications*.

All tree trimming shall be done with a chainsaw or loppers. The FRSA Inspector shall approve all tree removal and trimming.

12.3 Payment

Payment for this work will be made at the contract lump sum (LS) price for Clearing and Tree Removal.

13 Site Restoration and Seeding

13.1 General

All restoration of public or private property including, but not limited to, fences, sidewalks, driveways, all other slab work, (concrete and asphalt), drainage channels, riprap, fences, turf areas, dry wells, etc., disturbed or damaged because of this construction project shall be

promptly completed in accordance with public agency requirements. Completed restoration shall meet or exceed the pre-construction conditions, as directed by the FRSA.

All drainage devices shall be cleaned of debris and replaced at original elevations. Pipes, which have been, in the estimation of the FRSA, significantly damaged by the Contractor, shall be replaced with new pipe or structures of the same diameter, length and/or type at no added expense to the FRSA. All work shall be to the satisfaction of the FRSA. When necessary, temporary restoration of roads, drives, fences, etc., will be required, all costs incidental.

Suppliers shall be prepared to certify that their product has been laboratory and field tested, and that it meets all the foregoing requirements based upon such testing.

Guarantee: All seeded areas shall be maintained for at least thirty (30) days after application. Scattered bare spots no larger than two square feet will be allowed up to a maximum of five percent (5%) of any seeded area. Restoration shall be guaranteed by the Contractor for a period of one (1) year following final acceptance of the work.

13.2 Seeding and Fertilizing

Ground surfaces including rights-of-way and easements that were grassed areas prior to construction shall be seeded according to all applicable specifications and as directed by the FRSA. The Contractor shall make certain that all disturbed areas have the same depth (6" minimum) and quality of approved topsoil at the surface as existed prior to construction.

The seeding mixture used shall be compatible with the existing ground cover and shall be acceptable to the FRSA. Maintainable lawn areas shall be seeded with IDOT Class I seeding mixture.

Reference is made to the General Provisions and Technical Specifications for Sanitary Sewer Construction, T.S. 4:2, for specifications on seeding and sodding and fertilizer, and to *Sections 250 and 251 of the IDOT Standard Specifications*.

Seeding shall be placed on six-inch (6") (minimum) topsoil bed. The FRSA shall approve the locations from which the topsoil is to be obtained. When requested by the FRSA, a sample of the proposed topsoil shall be submitted to the FRSA in a one-quart container, filled, with a chemical and mechanical analysis of the topsoil by an approved testing laboratory.

13.3 Seeding Specification

Seedbed preparation shall be done according to *Article 250.05 IDOT Standard Specifications*.

Seeding methods shall follow those mentioned in Article 250.06. Mowing to discourage weed growth will be completed by the Contractor until the project is accepted by the FRSA.

Fertilizer work shall be done in accordance with Article 250.04. Fertilizer shall have an analysis of 10-10-10 and be applied at the rate of 400 lbs./acre.

Straw mulch shall be per Method 2 and done in accordance with the applicable portions of *Section 251 of the IDOT Standard Specifications* with the following exceptions:

The rate of application for mulch will be 4,000 lbs./acre using Hydro Tack at a rate of 400 lbs./acre for stabilization. This specification describes a mulch for use with the hydraulic application of grass seed which shall consist of specially prepared wood cellulose fiber. It shall be processed in such a manner that it will not contain any growth or germination-inhibiting factors and shall be dyed in an appropriate color to facilitate metering of the material. It shall be manufactured in such a manner that after additions and agitations in slurry tanks with fertilizers, grass seeds, water and any other approved additives, the fibers in the material will become uniformly suspended to form a homogenous slurry, and that when hydraulically sprayed on the ground, the material will form a blotter-like cover impregnated uniformly with grass seed, and which after application will allow the absorption of moisture and percolation of rainfall or mechanical watering of the underlying soil.

The mulch material described above shall be supplied in packages having a gross weight of not more than 55 pounds. The packages shall be adequately wrapped in paper, polyethylene, or other suitable material to prevent loss or spillage during handling. Weight specifications of this material from suppliers, and for all applications, shall refer only to air dry weight of the fiber material. Absolute air-dry weight is based on the normal weight standard of the Institute of the Pulp and Paper Industry for wood cellulose and is considered equivalent to a ten percent (10%) moisture content. Each package of the cellulose fiber shall be marked by the manufacturer to show the air-dry weight content.

At the direction of the FRSA or other governing agency, the Contractor shall provide steep slope protection over turf areas disturbed by construction in accordance with *Sections 251.03 and 251.04 of IDOT Standard Specifications*.

13.4 Submittals

1. Seed mixtures and fertilizer specifications.

13.5 Payment

Payment for this work will be made at the contract lump sum (LS) price for Site Restoration and Seeding.

14 Traffic Control and Protection

14.1 General

This work shall consist of furnishing, installing, maintaining, relocating, and removing work zone traffic control and protection in accordance with *Section 701 of IDOT Standard Specifications* and the Standard Details provided in *Section IV*. Contractor shall be solely responsible for the safety of all operations and shall comply with all local, State, and OSHA regulations.

All work shall be in conformance with the current edition of the Illinois Department of Transportation's Manual on Uniform Traffic Control Devices for Street and Highways.

Add the following to *Section 701 of IDOT Standard Specifications*:

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 traffic or pedestrians, as determined by the FRSA or roadway authority, the Contractor shall furnish any additional traffic control devices necessary to direct and protect his personnel 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 furnish any additional personnel needed 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 shall provide the FRSA and the roadway agency with the name, address, and telephone number of two (2) persons who will be responsible for maintaining the traffic control devices and who will be available to the roadway agency on an immediate basis twenty-four (24) hours a day.

The Contractor will be required to remove all traffic control devices 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.

14.2 Materials

This item shall include all signs, signals, temporary pavement markings, other required traffic control markings, barricades, warning lights, and other devices which are to be used to regulate, warn, or guide traffic during construction of this improvement in addition to *Article 701.03 of IDOT Standard Specifications*.

14.3 Required Submittals

1. Copies of approved traffic control plans, including detour routing and road closures as required by the roadway authority.

14.4 Payment

No separate payment will be made for traffic control and protection. All costs shall be incidental to Sanitary Sewer pay items.

15 Erosion and Sediment Control

15.1 General

The Contractor shall comply with all the requirements of the *IEPA Illinois Urban Manual*, current edition, and *Article 280 of the IDOT Standard Specifications*. All disturbed areas shall be restored to near original contours.

The Contractor shall take whatever measures the FRSA deems necessary to prevent or eliminate excessive erosion or siltation. Actual field conditions may require additional measures beyond those cited. This shall include, but is not limited to straw baling of ditches, stabilizing slopes with an approved geo-fabric and/or mulch, seeding, sodding, silt fence installation, rip-rap, etc. Sediment control shall be provided around the perimeter of all stockpile areas.

Provisions shall be made to minimize the transport of sediment by runoff or vehicle tracking onto roadways. Mud and debris shall be removed daily from roadway surfaces at the end of each workday or as necessary.

The Contractor shall remove and dispose of all temporary erosion control devices within 30 days of final site stabilization and FRSA approval.

The Contractor shall maintain storm water flow in all ditches and storm water conveyance systems (storm inlets, pipes, culverts, etc.) disturbed as a result of construction. Ditches shall be rough graded at the end of each day and whenever rain is imminent.

15.2 Silt Fencing

Silt fencing shall be Amoco 2127, or approved equivalent conforming to *Standard 280001-07* of the *IDOT Highway Standards*. Silt fencing shall. Posts shall be 1.5" x 1.5"

x 4' long, minimum, spaced 5' maximum on center. Silt fencing shall be installed prior to excavation or stockpiling of materials.

15.3 Inlet and Pipe Protection

This work shall consist of furnishing, installing, maintaining and retrieval of FRSA-approved drainage inlet protection filters to retain storm water runoff sediment as required or as directed. Inlet protection shall be drop-in type installed in accordance with Illinois Urban Manual detail 561D. Filters shall be 9" or 12" diameter sediment logs, erosion eels or straw wattles as manufactured by North American Green (or FRSA-approved equal).

The Contractor shall inspect the work site and review the plans to determine the sizes, types and numbers of inlet protection filters needed.

Erosion control devices shall remain in place until removal is directed by the FRSA. All erosion control devices shall remain the property of the Contractor. Upon stabilization and approval, the Contractor shall promptly remove and dispose of all erosion control devices as well as all debris and sediment accumulations.

15.4 Materials

Temporary erosion control measures shall conform to *IL Urban Manual* and *Article 1081 of IDOT Standard Specifications*.

15.5 Required Submittals

Material specifications for erosion control products outlined below or as applicable:

1. Inlet and pipe protection products.
2. Silt fencing.

15.6 Payment

No separate payment will be made for erosion and sediment control. All costs shall be incidental to the Sanitary Sewer pay items.

16 Quality Control, Tests and Certification

16.1 General

Low pressure air testing of sanitary sewer will not be required on this project.

All Sanitary Sewer Main Line Repairs on this project shall be televised by the FRSA prior to final acceptance. Contractor shall coordinate televising with the FRSA's Inspector.

Televising shall be completed prior removal of bypass pumping and installation of new pavement, but after final installation, backfilling and compaction have been completed.

Any defects identified by the FRSA which may affect the maintenance, integrity, or strength of the pipe, including offsets at the pipe transition or sags in the pipe, in the opinion of the FRSA, shall be repaired or replaced by the Contractor at the Contractor's sole expense.

The Contractor shall provide the FRSA a minimum of forty-eight (48) hours advance notice when requesting televising of a sewer segment.

All new sanitary manholes shall be vacuum tested per ASTM C1244-93 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to placing into service.

16.2 Submittals – Not used.

16.3 Payment

No separate payment will be made for quality control, tests, and certification. All costs shall be incidental to the Sanitary Sewer pay items.

Not to be used for bidding purposes

Section II

Contract Forms

Not to be used for bidding purposes

Proposal

Project: N. Rockton Avenue Trunk Sewer Repairs
Capital Project No. 2335

Location: Existing sanitary sewer easement at 3150 N. Rockton Avenue,
Rockford, Illinois

Completion Date: September 15, 2022

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)

Gentlemen:

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

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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 or otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it 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 www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx.
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".

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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.

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| Item No. | Quantity | Unit | Description | Unit Price (In Writing) | Unit Price (In Figures) | Total Price (In Figures) |
|-------------------------|----------|------|---|----------------------------|----------------------------|-----------------------------|
| 1 | 70 | LF | Remove and Replace Sanitary Sewer, 18" Diameter | | | |
| 2 | 8 | LF | Remove and Replace Sanitary Sewer, 8" Diameter | | | |
| 3 | 1 | EA | Remove and Replace Sanitary Manhole, 5' Diameter Drop | | | |
| 4 | 1 | LS | Bypass Pumping | | | |
| 5 | 5 | CY | Rock Excavation | | | |
| 6 | 20 | LF | Remove and Replace Storm Sewer, 36" Diameter RCP | | | |
| 7 | 30 | LF | Remove and Replace Chain Link Fence, 4' High | | | |
| 8 | 15 | SY | Remove and Replace HMA Pavement | | | |
| 9 | 1 | LS | Clearing and Tree Removal | | | |
| 10 | 1 | LS | Site Restoration and Seeding | | | |
| 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: _____

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Fair Employment Practices Affidavit of Compliance

Project: N. Rockton Avenue Trunk Sewer Repairs, Capital Project No. 2335

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 Clause, Rules and Regulations, Illinois Department of Human Rights, which read as follows:

"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 to 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 Department's 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 contracts 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

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Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we:

_____ (hereinafter called the Principal)
and

_____ (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: TEN PERCENT (10%) 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 N. Rockton Avenue Trunk Sewer Repair project consists of removal and replacement of approximately 70 LF of existing 18" diameter VCP sewer and one (1) 5' drop manhole. Work shall also include bypass pumping, removal and replacement of existing storm sewer piping, site restoration, and all appurtenances as indicated in the Contract document.

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

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.

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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: _____

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Agreement

1. General

THIS AGREEMENT, made and concluded this _____ day of _____, 2022, 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

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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

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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://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. 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

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- (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 September 15, 2022.

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

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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.

(Seal) Four Rivers Sanitation Authority
Winnebago County, Illinois

By _____
President, Board of Trustees

ATTEST: _____
Clerk of the Board

Contractor

(Corporate Seal) By _____
Contractor's Officer

Name: _____
Title: _____
Date: _____

ATTEST: _____

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TO: _____ Contractor Name
 _____ Contractor City, State

That _____ (Contractor)

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 _____

WHEREAS, Principal has by written agreement dated _____ 20__ Entered into a Contract with Obligee for _____ in accordance with contract documents prepared by the Four Rivers Sanitation Authority which Contract is by reference made a part hereof, and is hereinafter referred to as “the Contract”.

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

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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 Oblige, 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 Oblige 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 Oblige 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 Oblige relative to claims made against this Bond.

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

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

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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.

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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

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

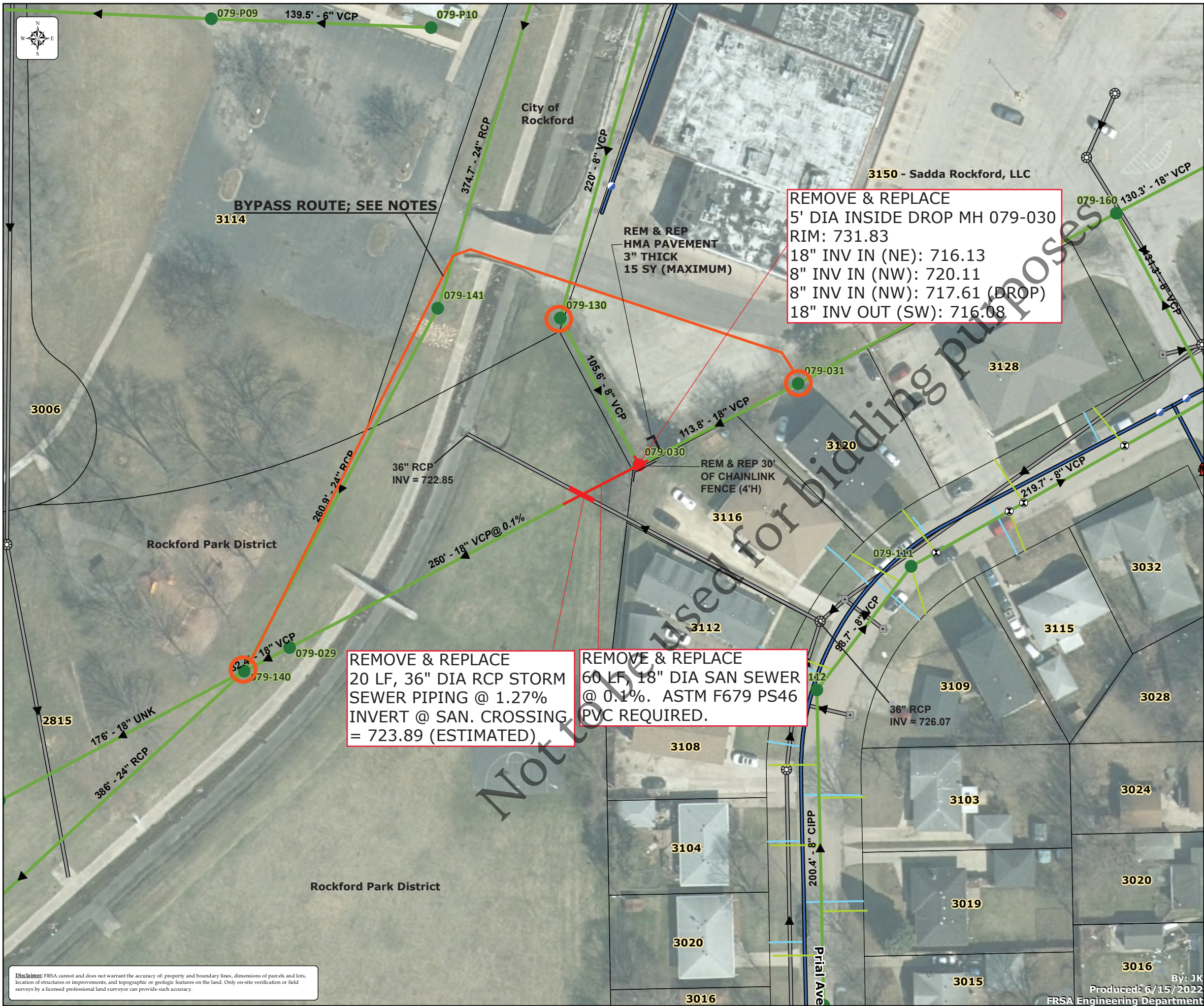
Corporate Secretary (Corporations only)

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Section III

**Location Map and
Standard Details**

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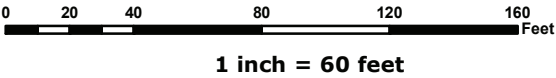
General Notes

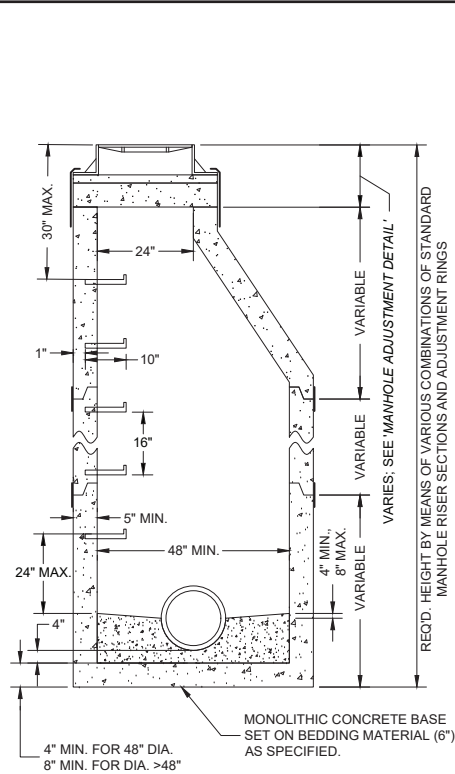
1. The Contractor shall notify Four Rivers Sanitation Authority (FRSA), municipal agencies, jurisdictional roadway authorities and all affected property owners 48 hours, minimum, prior to the start of construction.
2. All sanitary sewer construction shall be in accordance with the current edition of Standard Specifications for Water and Sewer Construction in Illinois and the requirements of the FRSA.
3. The Contractor shall identify all utility locations in the field by contacting JULIE at 811 or 1.800.892.0123 and all utilities not on the JULIE network 48 hours, minimum, prior to the start of construction.
4. All soil erosion and sediment control measures shall be in conformance with the Illinois Urban Manual, current edition.
5. All roadway construction shall be completed in accordance with the requirements of the roadway authority and the FRSA.

Site Specific Considerations

1. Bypass Pumping
 - a. 18" Trunk: Minimum bypass pump capacity shall be 775 GPM. Discharge shall be to MH 140 as shown. Contractor may submit alternate bypass routes for FRSA Consideration.
 - b. 8" Service to N. Rockton Centre: Contractor may route the bypassed flow to any downstream manhole. Intermittent pumping from MH 079-130 may be adequate based on flows observed.
2. Restoration of all turf areas disturbed by construction shall include placement of 6"(minimum) topsoil, seeding and mulch installed in accordance with Sections 250 and 251 of the IDOT Standard Specifications for Road and Bridge Construction, current edition.
3. All work on Rockford Park District Property shall be coordinated with Tim Bragg @ 815.987.8865, timbragg@rockfordparkdistrict.org.

N Rockton Ave. Trunk Sewer Repair
Capital Project No. 2335





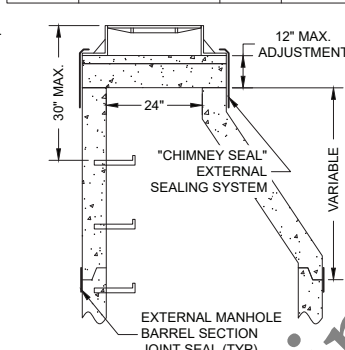
STANDARD MANHOLE DETAIL
(*MANHOLE ADJUSTMENT DETAIL* SHALL APPLY)

- NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
 2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
 3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
 4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 1/2" x 3/4" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
 5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL).
 6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
 7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
 8. SEE "MANHOLE ADJUSTMENT DETAIL" FOR ADJUSTMENT REQUIREMENTS.
 9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 10. PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
 11. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 12. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER "INSIDE DROP CONNECTION DETAIL".
 13. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, AND SHALL BE ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED.

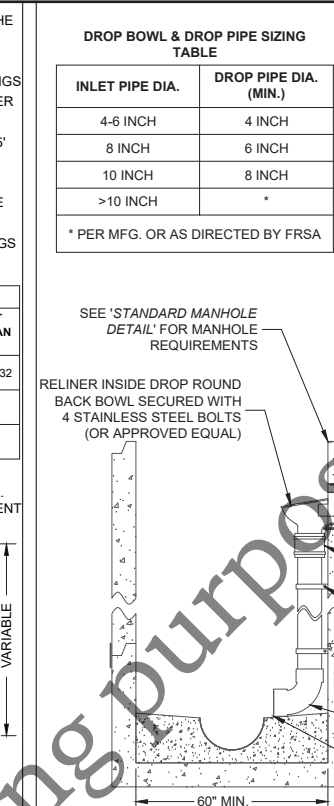
rev. 12/15/20

- NOTES:
1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
 2. 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.
 3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
 4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT, INCLUDING FRAME TO CONCRETE JOINT. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
 5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
 6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
 7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
 8. MANHOLE FRAMES SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.

| APPROVED FRAME & LID TABLE | | | | |
|----------------------------|--------------|-------------|-------------------|-----------------|
| TYPE | 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 | | | |



MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)



INSIDE DROP CONNECTION DETAIL
(*STANDARD MANHOLE DETAIL* SHALL APPLY)

- NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
 2. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS MFG. BY RELINER-DURAN INC., OR EQUAL.
 3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
 4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
 5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH 3/8" x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFR.'S RECOMMENDATIONS.
 6. THE DROP BOWL SHALL BE PLACED AT A HEIGHT SO THAT THE FLOW LINE OF THE BOWL IS 2 INCHES BELOW THE INVERT OF THE INCOMING PIPE.
 7. CUT A 1" DEEP BY 3" WIDE "V" NOTCH IN INVERT OF INLET PIPE.
 8. CUT THE TOP HALF OF THE INLET PIPE FLUSH WITH THE INSIDE OF THE MANHOLE WALL.

| DROP BOWL & DROP PIPE SIZING TABLE | |
|------------------------------------|-----------------------|
| INLET PIPE DIA. | DROP PIPE DIA. (MIN.) |
| 4-6 INCH | 4 INCH |
| 8 INCH | 6 INCH |
| 10 INCH | 8 INCH |
| >10 INCH | * |
| * PER MFG. OR AS DIRECTED BY FRSA | |

SEE 'STANDARD MANHOLE DETAIL' FOR MANHOLE REQUIREMENTS

RELINER INSIDE DROP ROUND BACK BOWL SECURED WITH 4 STAINLESS STEEL BOLTS (OR APPROVED EQUAL)

INLET PIPE

MANHOLE PIPE CONNECTION BY MEANS OF RUBBER GASKET SEAL & STAINLESS STEEL CLAMP IN ACCORDANCE WITH A.S.T.M. C-923. (PSX SERIES SIX OR EQUAL)

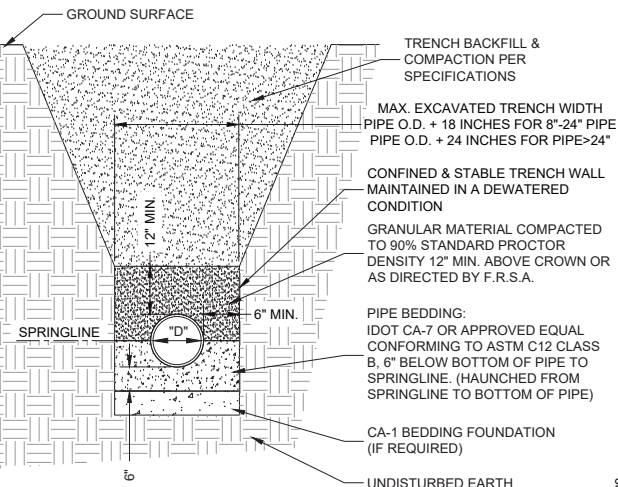
FLEXIBLE COUPLING WITH SS BANDS

RELINER 1 1/2" WIDE STAINLESS STEEL BRACKETS ATTACHED TO MH WALL WITH 2 STAINLESS STEEL BOLTS AT 3' INTERVALS (MIN. OF 2 PER DROP)

GLUED ELBOW FITTING EMBEDDED IN CONCRETE AT 45° TO SEWER FLOW OR AS DIRECTED.

DROP PIPE INVERT ELEV. SHALL MATCH SPRINGLINE OF EXIT PIPE

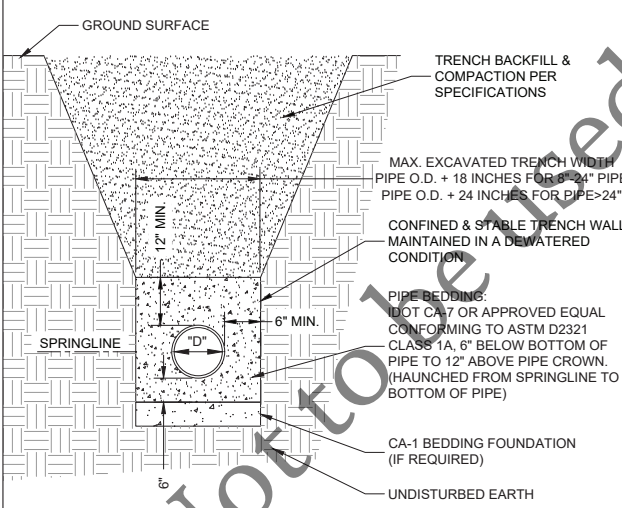
- NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL SHALL BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
 3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



RIGID PIPE BEDDING DETAIL

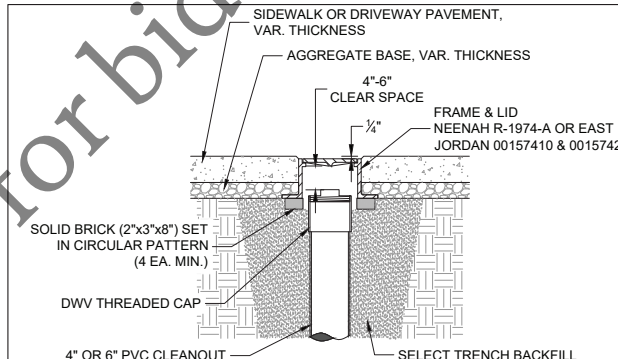
rev. 3/11/20

- NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
 3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



FLEXIBLE PIPE BEDDING DETAIL

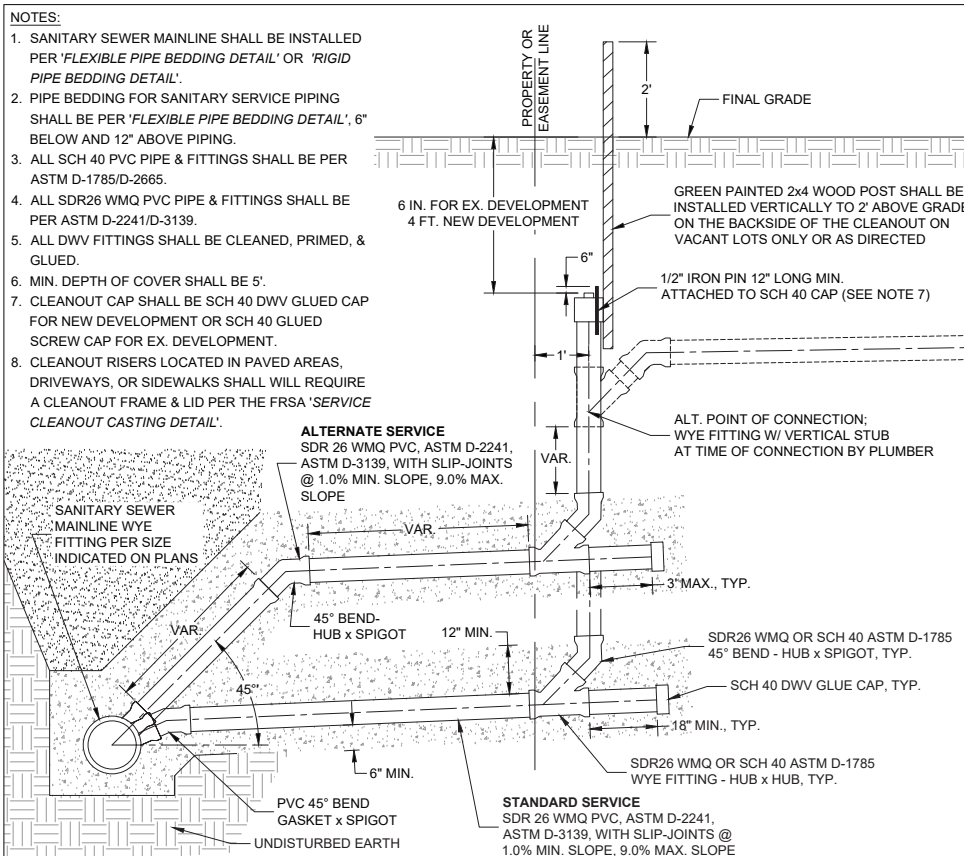
rev. 3/11/20



- NOTES:
1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
 2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
 3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE CIRCUMFERENCE OF THE FRAME. THE BRICKS SHALL BE SET ON COMPACTED TRENCH BACKFILL.
 4. THE FRAME SHALL BE SET TO AN ELEVATION THAT PROVIDES 4"-6" CLEAR SPACE BETWEEN THE TOP OF THE CLEANOUT CAP AND THE BOTTOM OF THE CASTING LID.
 5. THE CONTRACTOR SHALL ENSURE THAT THE CLEANOUT CAP CAN BE UNSCREWED AND REMOVED AND REPLACED WITHOUT HINDRANCE.
 6. THE FRAME SHALL BE SET 1/4" MIN. TO 3/8" MAX. BELOW FINAL PAVEMENT ELEVATION.

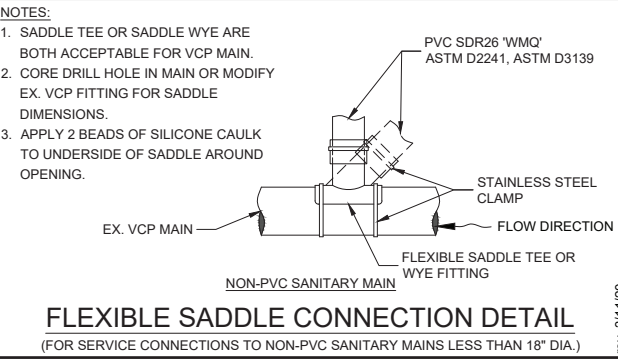
SERVICE CLEANOUT CASTING DETAIL

rev. 6/1/22



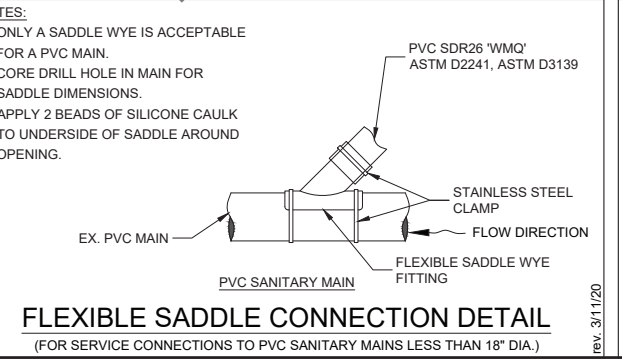
STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

rev. 4/1/19



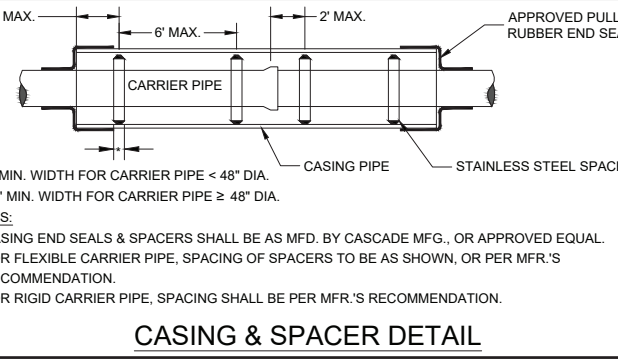
FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)

rev. 3/11/20



FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)

rev. 3/11/20



CASING & SPACER DETAIL

rev. 5/15/18

FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAIL SHEET
(NOT TO SCALE)

3501 KISHWAUKEE ST.
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

ISSUE
06/01/2022

01/01/2021 Revisions:
Manhole Adjustment Detail: Revised notes 1 & 2 with acceptable frames & lids. Modified notes 3, 5, & 7. Added note 8.
Revised Rock River Remediation District to Four Rivers Sanitation Authority.
Revised Drop Connection Detail: Revised note 6 & 7. Added note 8.
Service Cleanout Casting Detail: Added this detail.

Section IV

**Manhole Inspection Reports
and
Construction Record Drawings**

Not to be used for bidding purposes

MANHOLE INSPECTION FORM

| | | |
|------------------------|-------------------------|----------------------|
| MH ID#: 079-030 | INSPECTOR: JS/CN | DATE: 6-14-22 |
|------------------------|-------------------------|----------------------|

| | |
|---|---|
| SURFACE COVER: TURF <input type="checkbox"/> | PONDING: NO <input type="checkbox"/> |
|---|---|

| | | | | | | |
|--------------------------------------|--------------------------------|------------------------------------|------------------------------|-------|------------------------------------|-------------------------------|
| LID/COVER: | | | | | FRAME: | |
| LOCKING: | STAMP: | LID: | GASKET: | MISC: | TYPE: | CONDITION: |
| NON LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | BOLT DOWN <input type="checkbox"/> | YES <input type="checkbox"/> | | CAST IRON <input type="checkbox"/> | GOOD <input type="checkbox"/> |

| | | | | | | | |
|----------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| ADJUSTMENT RINGS: | | | | CONE: | | WALL: | |
| TYPE: | QTY: | SIZE: | CONDITION: | TYPE: | CONDITION: | TYPE: | CONDITION: |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 2" <input type="checkbox"/> | FAIR <input type="checkbox"/> | BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> | BLOCK <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| PRECAST <input type="checkbox"/> | 2 <input type="checkbox"/> | 4" <input type="checkbox"/> | FAIR <input type="checkbox"/> | | | | |
| BRICK <input type="checkbox"/> | 4 <input type="checkbox"/> | ROWS <input type="checkbox"/> | FAIR <input type="checkbox"/> | | | | |

| | | | | | |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|
| BENCH: | | INFILTRATION: | | | |
| TYPE: | SIZE: | ADJ: | CONE: | WALL: | BENCH: |
| CONCRETE <input type="checkbox"/> | 3/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | LOW <input type="checkbox"/> | LOW <input type="checkbox"/> |

| | | |
|----------------------------------|---|--|
| GPS RIM ELEVATION: 731.83 | MH DIAMETER: 4' <input type="checkbox"/> | SURCHARGE: YES <input type="checkbox"/> |
|----------------------------------|---|--|

| | | | | | | | |
|-----------------------|-----------------------------|------------------------------|------------------------------|-------------------|--------------|------------------|--------------|
| INFLOW: | | | | | | | |
| UPSTRM MH ID#: | DIR: | SIZE: | MTRL: | | | | |
| 079-130 | NV <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: 11.72 | ELEV: 720.11 | DEPTH LOW: 14.22 | ELEV: 717.61 |
| 079-031 | NE <input type="checkbox"/> | 18" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: 15.70 | ELEV: 716.13 |
| | | | | DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: _____ | ELEV: _____ |

| | | | |
|-------------------|-------------|------------------|----------------|
| SERVICES: | | | |
| SERV 1 POS: _____ | SIZE: _____ | MTRL: _____ | ADDRESS: _____ |
| DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: _____ | ELEV: _____ |
| SERV 2 POS: _____ | SIZE: _____ | MTRL: _____ | ADDRESS: _____ |
| DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: _____ | ELEV: _____ |
| SERV 3 POS: _____ | SIZE: _____ | MTRL: _____ | ADDRESS: _____ |
| DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: _____ | ELEV: _____ |

OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

| | | | |
|------------------------|-----------------------------|------------------------------|------------------------------|
| OUT FLOW: | | | |
| DWNSTRM MH ID#: | DIR: | SIZE: | MTRL: |
| 079-029 | SW <input type="checkbox"/> | 18" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| | | | |
| DEPTH: 15.75 | ELEV: 716.08 | | |
| DEPTH: _____ | ELEV: _____ | | |

| | | |
|-----------------------|---|---------------------------|
| METERED: _____ | OUTSIDE DROP: YES <input type="checkbox"/> | INSIDE DROP: _____ |
|-----------------------|---|---------------------------|

COMMENTS: LOW ROOT INFILTRATION THROUGHOUT WALLS & ON BENCH
 FRAME SLIDE +/- 2-3" & IS NOT SEALED/SECURED TO ADJUSTMENTS
 NO BOLTS
 CHAIN LINK FENCE SECTION ABOVE MH IS IN TORN DOWN



Not to be used for bidding purposes

MANHOLE INSPECTION FORM

| | | |
|------------------------|-------------------------|----------------------|
| MH ID#: 079-031 | INSPECTOR: JS/CN | DATE: 6-14-22 |
|------------------------|-------------------------|----------------------|

| | |
|--|---|
| SURFACE COVER: ASPHALT <input type="checkbox"/> | PONDING: NO <input type="checkbox"/> |
|--|---|

LID/COVER:

| | | | | |
|--------------------------------------|--------------------------------|------------------------------------|------------------------------|--------------|
| LOCKING: | STAMP: | LID: | GASKET: | MISC: |
| NON LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | BOLT DOWN <input type="checkbox"/> | YES <input type="checkbox"/> | |

FRAME:

| | |
|------------------------------------|-------------------------------|
| TYPE: | CONDITION: |
| CAST IRON <input type="checkbox"/> | GOOD <input type="checkbox"/> |

ADJUSTMENT RINGS:

| | | | |
|----------------------------------|----------------------------|-----------------------------|-------------------------------|
| TYPE: | QTY: | SIZE: | CONDITION: |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 2" <input type="checkbox"/> | GOOD <input type="checkbox"/> |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 8" <input type="checkbox"/> | GOOD <input type="checkbox"/> |

CONE:

| | |
|----------------------------------|-------------------------------|
| TYPE: | CONDITION: |
| PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> |

WALL:

| | |
|----------------------------------|-------------------------------|
| TYPE: | CONDITION: |
| PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> |

BENCH:

| | |
|-----------------------------------|------------------------------|
| TYPE: | SIZE: |
| CONCRETE <input type="checkbox"/> | 1/2 <input type="checkbox"/> |

INFILTRATION:

| | | | |
|-------------------------------|-------------------------------|------------------------------|------------------------------|
| ADJ: | CONE: | WALL: | BENCH: |
| NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | LOW <input type="checkbox"/> | LOW <input type="checkbox"/> |

STEPS:

| | |
|----------------------------------|-------------------------------|
| TYPE: | CONDITION: |
| PLASTIC <input type="checkbox"/> | GOOD <input type="checkbox"/> |
| 1ST<30" FROM RIM: | YES <input type="checkbox"/> |
| LAST<24" TO BENCH: | YES <input type="checkbox"/> |

| | | |
|----------------------------------|---|---|
| GPS RIM ELEVATION: 733.90 | MH DIAMETER: 4' <input type="checkbox"/> | SURCHARGE: NO <input type="checkbox"/> |
|----------------------------------|---|---|

INFLOW:

| UPSTRM MH ID#: | DIR: | SIZE: | MTRL: | DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: |
|----------------|-----------------------------|------------------------------|------------------------------|-------------|-------|------------|--------|
| 079-160 | NE <input type="checkbox"/> | 18" <input type="checkbox"/> | VCP <input type="checkbox"/> | | | 17.55 | 716.35 |
| | | | | | | | |
| | | | | | | | |

SERVICES:

| | | | |
|--------------------|--------------|-------------------|-----------------|
| SERV 1 POS: | SIZE: | MTRL: | ADDRESS: |
| | | | |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: |
| | | | |
| SERV 2 POS: | SIZE: | MTRL: | ADDRESS: |
| | | | |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: |
| | | | |
| SERV 3 POS: | SIZE: | MTRL: | ADDRESS: |
| | | | |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: |
| | | | |

OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

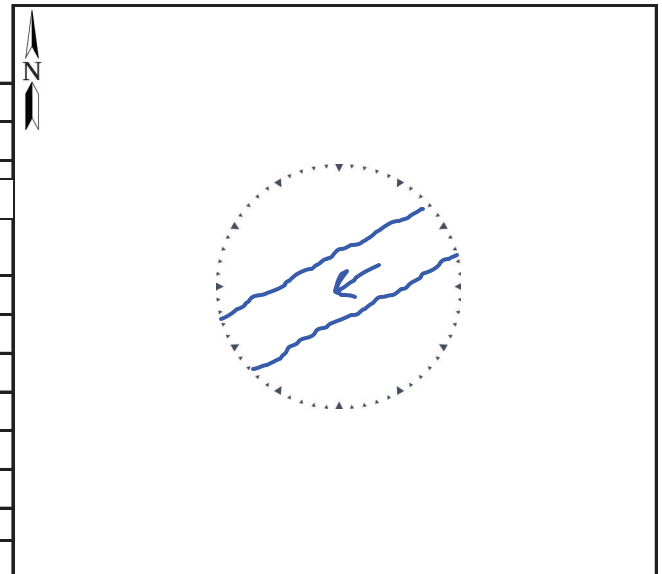
OUT FLOW:

| DWNSTRM MH ID#: | DIR: | SIZE: | MTRL: | DEPTH: | ELEV: |
|-----------------|-----------------------------|------------------------------|------------------------------|--------|--------|
| 079-030 | SW <input type="checkbox"/> | 18" <input type="checkbox"/> | PVC <input type="checkbox"/> | 17.55 | 716.35 |
| | | | | | |

| | | |
|-----------------|----------------------|---------------------|
| METERED: | OUTSIDE DROP: | INSIDE DROP: |
|-----------------|----------------------|---------------------|

COMMENTS: LOW ROOT INFILTRATION ON BENCH & WALLS

FRAME SLID +/- 3-4"



Not to be used for bidding purposes

MANHOLE INSPECTION FORM

| | | |
|------------------------|-------------------------|----------------------|
| MH ID#: 079-130 | INSPECTOR: JS/CN | DATE: 6-14-22 |
|------------------------|-------------------------|----------------------|

| | |
|---|--|
| SURFACE COVER: TURF <input type="checkbox"/> | PONDING: YES <input type="checkbox"/> |
|---|--|

| | | | | | | |
|---------------------------------------|--------------------------------|---------------------------------------|------------------------------|-------|------------------------------------|-------------------------------|
| LID/COVER: | | | | | FRAME: | |
| LOCKING: | STAMP: | LID: | GASKET: | MISC: | TYPE: | CONDITION: |
| SELF LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | CONCEALED PI <input type="checkbox"/> | YES <input type="checkbox"/> | | CAST IRON <input type="checkbox"/> | GOOD <input type="checkbox"/> |

| | | | | | | | |
|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| ADJUSTMENT RINGS: | | | | CONE: | | WALL: | |
| TYPE: | QTY: | SIZE: | CONDITION: | TYPE: | CONDITION: | TYPE: | CONDITION: |
| NONE <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> | BLOCK <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | |

| | | | | | | | |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|------------------------------------|-------------------------------|
| BENCH: | | INFILTRATION: | | | | STEPS: | |
| TYPE: | SIZE: | ADJ: | CONE: | WALL: | BENCH: | TYPE: | CONDITION: |
| CONCRETE <input type="checkbox"/> | 1/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | LOW <input type="checkbox"/> | NONE <input type="checkbox"/> | CAST IRON <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| | | | | | | 1ST<30" FROM RIM: | YES <input type="checkbox"/> |
| | | | | | | LAST<24" TO BENCH: | YES <input type="checkbox"/> |

| | | |
|----------------------------------|---|---|
| GPS RIM ELEVATION: 731.53 | MH DIAMETER: 4' <input type="checkbox"/> | SURCHARGE: NO <input type="checkbox"/> |
|----------------------------------|---|---|

| | | | |
|-------------------------------|-----------------------------|-------------------------------|------------------------------|
| INFLOW: | | | |
| UPSTRM MH ID#: | DIR: | SIZE: | MTRL: |
| 079-131 | NE <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH: _____ ELEV: _____ | | DEPTH LOW: 10.70 ELEV: 720.83 | |
| DEPTH HIGH: _____ ELEV: _____ | | DEPTH LOW: _____ ELEV: _____ | |
| DEPTH HIGH: _____ ELEV: _____ | | DEPTH LOW: _____ ELEV: _____ | |

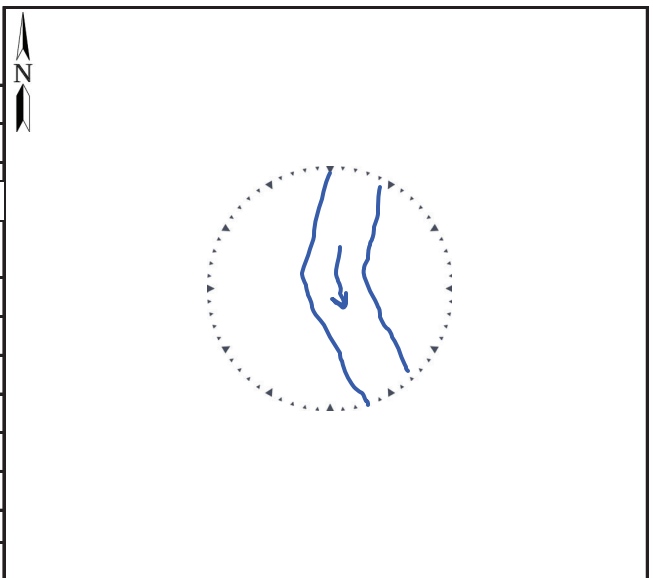
| | | | |
|--|--------------------------------------|--------------------------------------|----------------|
| SERVICES: | | | |
| SERV 1 POS: _____ <input type="checkbox"/> | SIZE: _____ <input type="checkbox"/> | MTRL: _____ <input type="checkbox"/> | ADDRESS: _____ |
| DEPTH HIGH: _____ ELEV: _____ | | DEPTH LOW: _____ ELEV: _____ | |
| SERV 2 POS: _____ | SIZE: _____ | MTRL: _____ | ADDRESS: _____ |
| DEPTH HIGH: _____ ELEV: _____ | | DEPTH LOW: _____ ELEV: _____ | |
| SERV 3 POS: _____ | SIZE: _____ | MTRL: _____ | ADDRESS: _____ |
| DEPTH HIGH: _____ ELEV: _____ | | DEPTH LOW: _____ ELEV: _____ | |

OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

| | | | |
|---------------------------|-----------------------------|-----------------------------|------------------------------|
| OUT FLOW: | | | |
| DWNSTRM MH ID#: | DIR: | SIZE: | MTRL: |
| 079-030 | SE <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH: 10.62 ELEV: 720.91 | | DEPTH: _____ ELEV: _____ | |

| | | |
|-----------------|----------------------|---------------------|
| METERED: | OUTSIDE DROP: | INSIDE DROP: |
|-----------------|----------------------|---------------------|

| |
|--|
| COMMENTS: NEEDS TO BE RAISED +/- 4" |
| 2ND STEP FROM BOTTOM IS WET - POSSIBLE LOW WATER INFILTRATION AROUND |
| WHERE STEP IS FASTENED INTO WALL |
| |
| INVERT DEPTHS SHOW BACKFALL, BUT PIPE HAS FLOW |
| |
| |
| |
| |



Not to be used for bidding purposes

MANHOLE INSPECTION FORM

| | | |
|------------------------|-------------------------|----------------------|
| MH ID#: 079-140 | INSPECTOR: JS/CN | DATE: 6-14-22 |
|------------------------|-------------------------|----------------------|

| | |
|---|---|
| SURFACE COVER: TURF <input type="checkbox"/> | PONDING: NO <input type="checkbox"/> |
|---|---|

| | | | | | | |
|--------------------------------------|--------------------------------|---------------------------------------|-----------------------------|-------|------------------------------------|-------------------------------|
| LID/COVER: | | | | | FRAME: | |
| LOCKING: | STAMP: | LID: | GASKET: | MISC: | TYPE: | CONDITION: |
| NON LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | CONCEALED PI <input type="checkbox"/> | NO <input type="checkbox"/> | | CAST IRON <input type="checkbox"/> | GOOD <input type="checkbox"/> |

| | | | | | | | |
|----------------------------------|----------------------------|-----------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| ADJUSTMENT RINGS: | | | | CONE: | | WALL: | |
| TYPE: | QTY: | SIZE: | CONDITION: | TYPE: | CONDITION: | TYPE: | CONDITION: |
| PRECAST <input type="checkbox"/> | 2 <input type="checkbox"/> | 6" <input type="checkbox"/> | GOOD <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| BENCH: | | INFILTRATION: | | | |
| TYPE: | SIZE: | ADJ: | CONE: | WALL: | BENCH: |
| CONCRETE <input type="checkbox"/> | 1/2 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> |

| | | |
|----------------------------------|---|--|
| GPS RIM ELEVATION: 730.64 | MH DIAMETER: 5' <input type="checkbox"/> | SURCHARGE: YES <input type="checkbox"/> |
|----------------------------------|---|--|

| | | | | | | | |
|-----------------------|-----------------------------|------------------------------|------------------------------|-------------|-------|------------|--------------------|
| INFLOW: | | | | | | | |
| UPSTRM MH ID#: | DIR: | SIZE: | MTRL: | | | | |
| 079-030 | NE <input type="checkbox"/> | 18" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: | ELEV: | DEPTH LOW: | 14.66 ELEV: 715.98 |
| 079-141 | NE <input type="checkbox"/> | 24" <input type="checkbox"/> | RCP <input type="checkbox"/> | DEPTH HIGH: | ELEV: | DEPTH LOW: | 14.75 ELEV: 715.89 |
| | | | | DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: |

| | | | | | | |
|------------------|--------------------------|------------|--------------------------|-------|--------------------------|----------|
| SERVICES: | | | | | | |
| SERV 1 POS: | <input type="checkbox"/> | SIZE: | <input type="checkbox"/> | MTRL: | <input type="checkbox"/> | ADDRESS: |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: | | | |
| SERV 2 POS: | SIZE: | MTRL: | ADDRESS: | | | |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: | | | |
| SERV 3 POS: | SIZE: | MTRL: | ADDRESS: | | | |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV: | | | |

OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

| | | | |
|------------------------|-----------------------------|------------------------------|------------------------------|
| OUT FLOW: | | | |
| DWNSTRM MH ID#: | DIR: | SIZE: | MTRL: |
| 079-028 | SW <input type="checkbox"/> | 18" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| 079-159 | SW <input type="checkbox"/> | 24" <input type="checkbox"/> | RCP <input type="checkbox"/> |
| | | | |

| | | |
|-----------------|----------------------|---------------------|
| METERED: | OUTSIDE DROP: | INSIDE DROP: |
|-----------------|----------------------|---------------------|

| |
|--|
| COMMENTS: ROCK IN INVERT OF 24" RCP ENTERING MH |
| BUILD UP OF RAGS BETWEEN THE TWO "OUT" PIPES |
| |
| |
| |
| |
| |
| |
| |
| |
| |



Not to be used for bidding purposes

Not to be used for bidding purposes

SUMMERDALE SUBDIVISION SANITARY SEWER

EAST SIDE OF DRAINAGE WAY

1960

Platted By N.L.B.
3/23/72 PLAT # 189

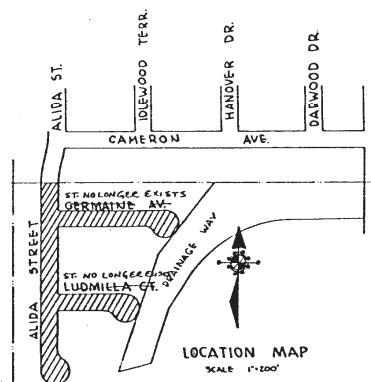
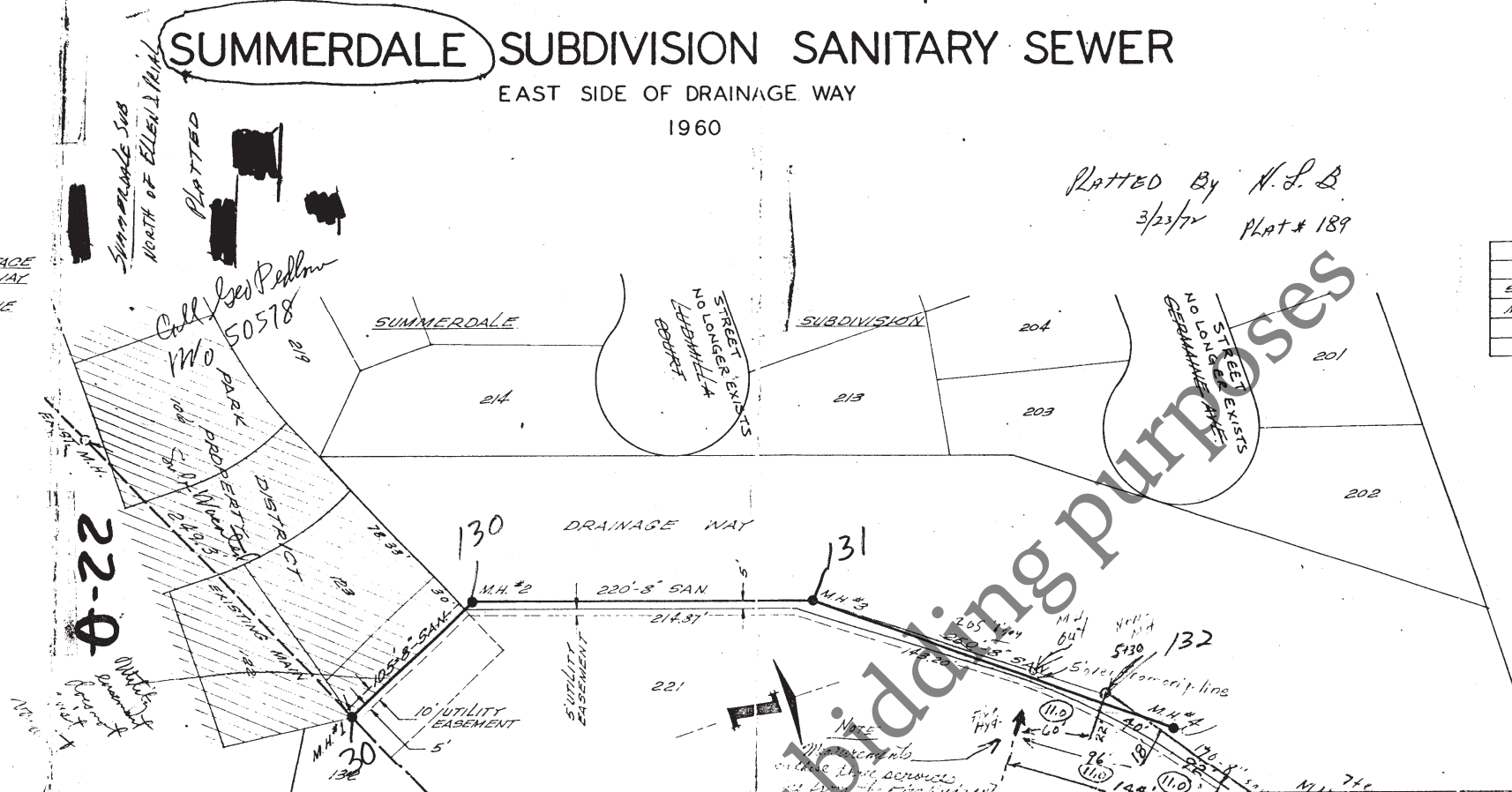
NOTE
THE CONTRACTOR SHALL REPLACE THE SURFACE
ALONG THE EAST SIDE OF THE DRAINAGE WAY
IN THE SAME OR AS GOOD CONDITION AS
EXISTED PRIOR TO THE CONSTRUCTION OF THE
SANITARY SEWER.

| SUMMARY OF QUANTITIES | | |
|---------------------------|-------|---------|
| ITEM | QUAN. | UNIT |
| SANITARY SEWERS 8" (MAIN) | 575 | LN. FT. |
| MANHOLES | 4 | EACH |

BENCH MARKS

T.B.M. 1 ON TOP OF EAST HANDRAIL (S. END) OF BRIDGE
CULVERT ON ROCKTON AVE. BETWEEN PARADISE AVE.
JONATHAN E.L. 136.00

FIELD NOTES
LOOSE LEAF



MH 079-030

CONSTRUCT
OUTSIDE DROP

GRADE - EAST SIDE
OF DRAINAGE WAY

SUMMERDALE SUBDIVISION
SANITARY SEWER

CITY OF ROCKFORD, ILL.
ENGINEERING DEPT.

DRAWN BY
CHECKED BY
APPROVED BY
SCALE 1"=50' HORIZ. 5"=VERT.
DATE SEPT 23, 1960
SHEET 1 OF 1

11-10-240-*ALIDA ST.

7243

B/P

Not to be used for bidding purposes

Section V

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

(Separate document incorporated by reference)