# Rock River Water Reclamation District Rockford, Illinois

**Bidding Requirements and Contract Forms** 

for

Charles Street Sanitary Sewer Extension Special Assessment No. 132 2019

# **Bidding Requirements and Contract Forms** for

## Charles Street Sanitary Sewer Extension Special Assessment No. 132 2019

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## Index

#### I. **BIDDING REQUIREMENTS**

Article 1	Notice to Bidders
Article 2	Instructions to Bidders
1	General
2	Legal Requirements
3	General Instructions
Article 3	Detailed Specifications – Sanitary Sewer  General  Notification Access and Special Considerations
Arucie 3 1	Detailed Specifications – Sanitary Sewer General
2	Notification, Access, and Special Considerations
3	Permit Requirements
4	Erosion and Sediment Control
5	Dewatering Devatering
6	Bypass Pumping Sanitary Sewers
7	Sanitary Sewer, PVC SDR35, 8" Dia.
8	Sanitary Manhole, Precast, 4' Dia. and 5' Dia.
9	Sanitary Sewer Service, PVC SDR26 WMQ, 6" Dia.
10	Reconnect Existing 6" Dia. Sanitary Sewer Service, Complete
11	Sanitary Manhole Removal
12	Driveway Removal
13	Inlet Removal
14	Storm Sewer Removal
15	Aggregate Base Course, Type B, 6"
16	Hot-Mix Asphalt Surface Course, N50, IL-9.5, Mix "C", 2"
17	Aggregate Wedge Shoulder, Type B
18	Inlets, Type B with Type 8 Frame and Grate
19	Storm Sewers, Class B, Type 1 – 18" Dia., CPP
20	Tree Removal / Clearing and Grubbing
21	Temporary Construction Fence
22	Inlet Protection
23	Erosion Control Blanket
24	Turf Restoration, Complete (Topsoil and Seeding, Class 1A)
25	Epoxy Pavement Marking – Line 4"
26	Traffic Control and Protection, Complete
27	Quality Control Tests and Certification
28	Cleanup
29	Soil Borings
CONTRACT	FORMS

#### II. C

Proposal Bid Bond

Affidavit of Compliance

Agreement

Performance Bond

Labor & Material Payment Bond

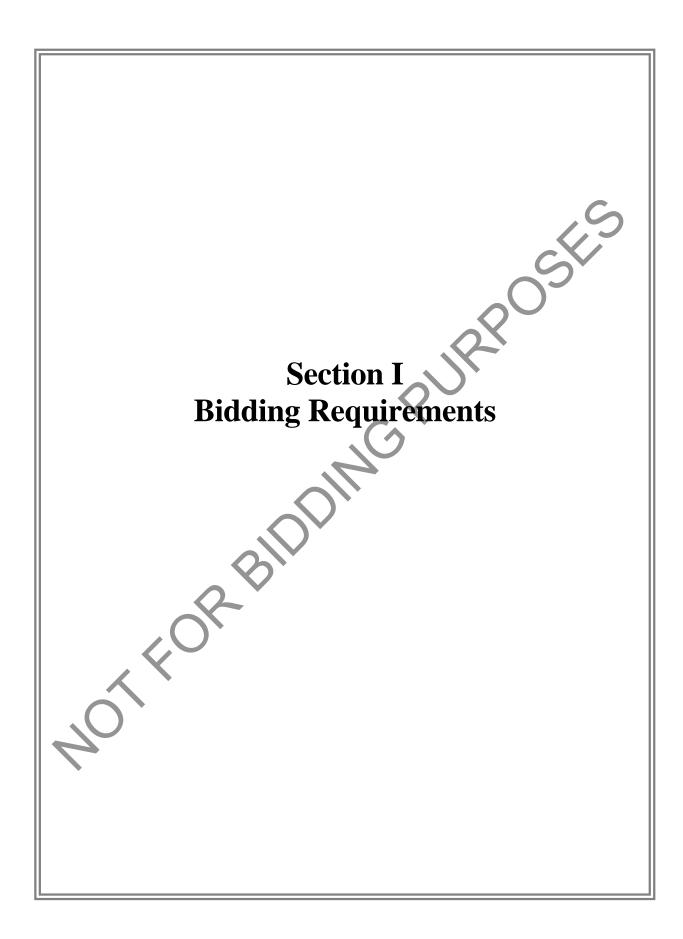
Bid Doc. No. 19-406 Index / Page 1 of 2

## III. SOIL BORINGS

IV. GENERAL PROVISIONS AND TECHNICAL SPECIFICATIONS FOR SANITARY SEWER CONSTRUCTION (separate document incorporated by reference)



Bid Doc. No. 19-406 Index / Page 2 of 2



## Article 1 – Notice to Bidders

The Rock River Water Reclamation District, (District) will receive signed and sealed bids for the Charles Street Sanitary Sewer Extension, Special Assessment No. 132, at the District office located at 3501 Kishwaukee Street, Rockford, IL, until 10:30 a.m. Tuesday, May 14, 2019; at which time and place responsive / responsible bids will be publicly opened and read aloud in accordance with Ordinance 18/19-S-02, passed on April 22, 2019 providing therefore, a copy of which is on file with the District Director of the Rock River Water Reclamation District. The Contract will be awarded pending the Court Confirmation of the Assessment.

The Charles St. Sanitary Sewer Extension Special Assessment No. 132 consists of the construction of approximately 315 LF of 8" dia. PVC sanitary sewer, 2-6" dia. PVC sanitary services, 1-6" dia. sanitary service reconnection, 3 manholes, removal and replacement of 4 storm sewer inlets and approximately 344 LF of 18" dia. corrugated polypropylene storm sewer pipe, tree removal and clearing, driveway removal, driveway reconstruction with aggregate base course and hot-mix asphalt surface course, epoxy pavement markings, turf restoration work, and all other appurtenances as indicted on the plans and in the specifications. This project is located in the public right-of-way of Charles Street in Rockford Township, Winnebago County, IL.

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 the District office located at 3501 Kishwaukee Street, Rockford, IL.

All underground construction, paving, testing and restoration shall be completed by August 2, 2019. Liquidated damages shall be \$300 per calendar day. The contractor will be paid in SPECIAL ASSESSMENT NO. 132 vouchers at par with interest at the rate of five percent (5%) per annum.

Bid documents may be obtained upon payment of \$50 per set (non-fundable) by contacting the District 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, IL. For more information, visit the District website at www.rrwrd.dst.il.us.

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

Each proposal must be accompanied by the District 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, that a contract will be properly executed and 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 the consent of the District for a period of sixty (60) days after the scheduled time of receiving bids.

The Rock River Water Reclamation District reserves the right to reject any and all bids, or any part thereof, or to accept any bid or part thereof, or to waive any formalities in any bids, deemed to be in the best interest of the Rock River Water Reclamation District.

Dated this 26 day of AP2L, 2019

Chris Black, Business Manager

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## **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, District 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

1. 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 Rock River Water Reclamation District) to submit certified payroll records on a monthly basis, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing false records is a Class B Misdemeanor.

The certified payroll records must include the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending time of work each day, for every worker employed on the project. Any contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B Misdemeanor. Certified payroll reports shall be submitted on standard IDOT forms.

2. Public Act 83–1030 entitled "Steel Products Procurement Act" 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.

The provisions of this Section shall not apply:

- a. Where the contract involves an expenditure of less than \$500.
- b. Where the executive head of the public agency certifies in writing that
  - i. the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
  - ii. obtaining the specified products, manufactured or produced in the United States would increase the cost of the contract by more than 10%.
- c. When its application is not in the public interest.
- 3. Public Act 96-929 (30 ILCS 570) 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.
- 4. Public Act 99-0933 requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:
  - a. the illegality of sexual harassment
  - b. the definition of sexual harassment under Illinois State law
  - c. a description of sexual harassment, utilizing examples
  - d. my (our) organization's internal complaint process including penalties
  - e. the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission
  - f. directions on how to contact the Department and the Commission
  - g. protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act

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

- 5. 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.
- 6. The Contractor for this project shall comply with the Occupational Safety and Health Act.
- 7. The Contractor for this project shall comply with the Federal Drug-Free Workplace Act.
- 8. 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 shall comply with Public Act 96-1416 and be responsible for the certifications and any fees associated with the disposal at a CCDD fill site.
  - a. In the event that contaminated soil is uncovered on the project, the Contractor shall notify the District immediately. Any extra costs resulting from the presence of contaminated soil shall be evaluated in accordance with District 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 Rock River Water Reclamation District (District) and their representatives from all:

1. suits, claims, or actions

Bid Doc. No. 19-406

- 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 the Rock River Water Reclamation District, 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

Bid Doc. No. 19-406

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 the District 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 the District.

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.

The Contractor may opt to contact the District'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 Rock River Water Reclamation District, 3501 Kishwaukee Street, Rockford, Illinois, 61109 and be sent preferably by certified mail. The District will not accept facsimile generated bids.

#### 3.6 Bid Security

Bid Doc. No. 19-406

Each proposal must be accompanied by the District 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 District'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, <u>has a permanent business office within forty (40) miles of the District office at 3501 Kishwaukee Street in Rockford, IL</u>, 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 within the past five (5) years having equal or greater value to the bid being submitted. The District 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. The Rock River Water Reclamation District 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 the Engineering Manager of the District 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 District 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 District 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

Bid Doc. No. 19-406

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 the District;
- 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 contracts within the past five (5) years of equal or greater value to the bid being submitted.

## 3.11 The Rejection of Bids

The District 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 the District 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. The District reserves the right to reject any and all bids and to accept the bid which they deem most favorable to the interest of the District 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 the District's issuance of an award letter, the Contractor shall provide documentation to prove that he has obtained all required insurance and bonds. The District 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 the District.

## **3.12.1** General

Bid Doc. No. 19-406

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 the Charles Street Sanitary Sewer Extension, Special Assessment No. 132.
- 3. The District 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**

Bid Doc. No. 19-406

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

- 1. <u>General Liability</u>: \$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. <u>Automobile Liability</u>: \$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. <u>Workers' Compensation and Employers Liability</u>: Workers' Compensation limits as required by statute and Employers Liability limits of \$500,000 per accident and \$500,000 per disease.
- 4. <u>Umbrella</u>: \$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. <u>Errors and Omissions</u>: 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, the District, 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 the District, 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 the District, its officers, officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by the District, 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 the District, 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 the District.

## 3.12.3 Best's Ratings

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

- 1. <u>Alphabetical Rating</u>: 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 the District.
- 2. <u>Financial Size Rating</u>: Provided an insurer's alphabetical rating is satisfactory, the District will examine said insurer's financial size rating.
  - a. If <u>Best</u> classifies the insurer XII or larger, said insurer shall be acceptable to the District.
  - b. If <u>Best</u> classifies the insurer as smaller than XII, but larger than VI, said insurer shall be submitted to the District's Business Manager and/or the District'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 the District. 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 the District determines that the Contractor's insurance or bond documentation does not conform to these specifications, the District 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 the District's deficiency notice, he shall be in default.

## 3.12.6 Indemnification Clause

Bid Doc. No. 19-406

Contractor shall protect, indemnify, hold and save harmless and defend the District, 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 District, 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 the District 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 the District.

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 the District, its employees, or agents shall be deemed a waiver by the District 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

The District 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. The District's tax Aplica Pulker Pu exemption number is E9992-3696-06. The bidder shall include all applicable taxes in his bid price.

## **Article 3 – Detailed Specifications**

## 1 General

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

Throughout these specifications, the term "Owner", "District", and "Engineer" shall be synonymous.

In case of apparent contradictions between Article 3 - Detailed Specifications and the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*, these Detailed Specifications shall govern.

The Contractor shall transport all waste material, pipe, pavement, sewer and debris, etc., removed during construction to an approved offsite dumping area and shall pay all tipping fees. When the construction is halted due to rain, the Contractor shall clean up all work areas before leaving the site and ensure that proper surface drainage is provided.

This project extends through public right-of-way along the frontages of 4620 Charles Street, 4630 Charles Street, and 4640 Charles Street.

General location of sewer is governed by existing obstructions in the field. Minor adjustments in location may be made after approval by District to facilitate construction operations.

All removal limits shown on the plans shall be adhered to by the Contractor. Should any appurtenances outside of those limits be damaged, including but not limited to pavements, curbs, drainage pipes/structures, signs, mailboxes, landscaped/turf areas, and/or trees, they shall be restored and/or repaired to the District's satisfaction at no additional cost to the Contract.

Any construction not observed by a District Inspector shall not be accepted.

No work shall be permitted on Sundays without prior approval by the District Engineering Manager.

Suppliers shall warrant their products and product components as suitable and fit for the intended purpose and that they are free from all material, design, and manufacturing defects. Said warranty shall extend to the benefit of the Owner and District and shall apply to all products and product components whether supplied or fabricated as a result of these Specifications.

District will not supervise, direct, control, have authority over or be responsible for Contractor's means, methods, techniques, sequences, procedures of construction, safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the furnishing or performance of the Work. The District will not be responsible for Contractor's failure to perform or furnish the Work in accordance with the Contract Documents.

The Contractor shall be responsible for all tests of materials and final installation required by the District. All deficiencies noted by the inspectors shall be corrected by the Contractor without cost to the District and prior to final payment.

The Contractor shall restore all disturbed areas to near original contour and state, graded and raked to a neat, well-drained condition. All disturbed turf areas shall be seeded or sodded, as hereinafter noted, after approval of the seed or sod bed by the District. Any damage to pavement, driveways, bituminous surfacing, sod, trees, bushes, fences, landscaping, structures, fixtures, etc., beyond right—of—way limits shall be replaced or repaired by the Contractor at no additional cost to the District.

All work in streets, railroads, highways or flood plains shall be subject to the regulations and requirements of the jurisdictional agencies. Should conflicts or contradictions arise between the plans, specifications and the roadway, railroad or waterway permits, the permits shall govern.

Upon completion of work within the street, railroad, or highway (or flood plain), the Contractor shall restore the right-of-way in accordance with the requirements of the governing agency. The Contractor shall be responsible for the temporary maintenance of all roadways and drives for the duration of the project and shall maintain access at all times. Excavated or other materials shall not be stored or cast upon the pavement.

The Contractor shall provide traffic control personnel and/or equipment as required by the agency that owns, maintains, or governs said roadways or railroads.

The Contractor's workforce shall include a person competent in ensuring compliance with OSHA trenching and excavation requirements. This person must be present on-site at all times during construction and must be deputized to take any prompt preventative or corrective actions needed to avoid, prevent or mitigate existing and potential hazardous working conditions.

## 2 Notification, Access, and Special Considerations

## 2.1 General

Utility locations shown on the plans are based on record information made available at the time of design and are not guaranteed. The location and/or elevation of existing underground utilities, such as gas mains, water mains, electric lines, storm sewers, field tiles, septic system field lines, etc., shall be determined by the Contractor. The Contractor shall assume full responsibility for location of all utilities. The Contractor shall notify all utilities forty-eight (48) hours minimum prior to beginning any work by contacting J.U.L.I.E. at (800)-892-0123 and all other utilities not on the J.U.L.I.E. network. All underground utilities shall be located in the field by the utility or duly authorized representative. The Contractor shall exercise special care when excavating near

Bid Doc. No. 19-406 Article 3 / Page 2 of 26

underground utilities to avoid damage. Any damage done to utilities shall be repaired or replaced at the Contractor's sole expense. The Contractor shall be solely responsible for the protection, restraint and support of all utilities.

The Contractor shall notify the Rock River Water Reclamation District (District), all affected property owners, and the public roadway authority (Winnebago County Highway Department) forty-eight (48) hours minimum prior to beginning any work. Said notification shall apply to business days only, not weekends.

The Contractor shall coordinate traffic control with the Winnebago County Highway Department (WCHD). An Urban Lane Closure of Charles Street (in accordance with IDOT Highway Standard 701501-06) will be allowed during weekdays between 8:00 AM and 4:00 PM.

The Contractor shall be responsible for the temporary maintenance of all roadways, driveways, and field entrances over the course of this project and shall maintain access to residences or businesses at all times during construction (i.e. drives, roadways, ramps, etc., must remain open to vehicular traffic; temporary accesses must be provided, as necessary). All materials, equipment, labor, etc. necessary to assure this shall be considered included in the contract.

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

The Contractor shall clean up areas from which spoil has been removed at the end of each day by sweeping, washing or other approved methods. The Contractor is reminded that this work is occurring in proximity to businesses and residences – any open excavations shall be protected by temporary construction fence at the completion of work each day.

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

The Contractor shall not damage, disturb, remove or otherwise eliminate any survey monument, monument tie, lot pin, right-of-way marker, etc., until the exact locations have been recorded by a Professional Land Surveyor currently licensed in the State of Illinois. The Contractor shall enlist the services of a registered Illinois Professional Land Surveyor to locate, document and restore/reset any and all monuments damaged or disturbed as a result of construction.

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

## **IDOT Highway Standards Included in this Contract:**

- 1. Standard 280001-07: Temporary Erosion Control Systems
- 2. Standard 602306-03: Inlet, Type B
- 3. Standard 604036-03: Grate Type 8
- 4. Standard 701501-06: Urban Lane Closure, 2L, 2W, Undivided

Bid Doc. No. 19-406 Article 3 / Page 3 of 26

#### **Notifications**

- Minimum forty-eight (48) hour notification to all residents and/or businesses before beginning work.
- Minimum forty-eight (48) hour notification to Rock River Water Reclamation District prior to beginning any work.
- Minimum forty-eight (48) hour notification to the Winnebago County Highway Department prior to any work in their right-of-way.

## **2.2 Required Submittals** – Not used.

## 2.3 Measurement and Payment

No separate payment will be made for costs associated with notification, access, and special considerations.

## **3** Permit Requirements

## 3.1 General

All work in streets, highways, railroad right-of-way and utility easements or right-of-way shall be subject to the regulations and requirements of the jurisdictional agencies. Should conflicts or contradictions arise between the plans, specifications and the roadway, railroad, or utility permits, the permits shall govern.

The Contractor shall comply with the requirements of any and all permits obtained and required for the construction of this project. A right-of-way permit will be required from the Winnebago County Highway Department for work within the Charles Street right-of-way. The Contractor shall provide all insurance, bonds, etc., as required by the requisite permits. The Contractor shall also obtain and comply with any additional permits that may be required for the completion of this project.

Unless noted otherwise, the Contractor shall be responsible for securing any necessary permits, and for securing all bonds, insurance, etc., and paying all fees required by any and all permits. Copies of all secured permits shall be provided to the District prior to the start of construction. The Contractor shall comply with all provisions of permits secured or required for this project.

Permit Contact Information		
Entity	Name	Phone Number
Winnebago County Highway Department	Prafull Soni	(815)-319-4028

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

Bid Doc. No. 19-406 Article 3 / Page 4 of 26

## 3.2 Required Submittals

1. Copies of signed permits, as applicable.

## 3.3 Payment

The cost of obtaining and complying with any and all permit requirements shall be included in the various Contract unit prices and no additional compensation will be awarded.

## 4 Erosion and Sediment Control

## 4.1 General

The total disturbed area for this project is estimated to be less than 1.0 acre. A Notice of Intent (N.O.I.) and a Storm Water Pollution Prevention Plan (SWPPP) will not be submitted to the Illinois Environmental Protection Agency (I.E.P.A).

The Contractor shall comply with all the requirements of the I.E.P.A.'s *Illinois Urban Manual*, current edition and Section 280 of the *IDOT Standard Specification*. All disturbed areas shall be restored to near-original contours and seeded in accordance with the "Turf Restoration" Section of these Detailed Specifications.

The erosion control devices, materials, and procedures specified in these contract documents are to be considered a minimum. Additional devices or materials may be required based on existing site conditions, at the direction of the Engineer. Any devices, materials, or procedures required by the Engineer due to the Contractor's actions or negligence will be at no additional cost to the District.

The Contractor shall take whatever measures the District deems necessary to eliminate excessive erosion or siltation, including, but not limited to, inlet protection, seeding, sodding, erosion control blanket, silt fence, etc.

The Contractor shall keep the road right-of-way free from all dirt and construction debris at all times during construction.

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

## **4.2 Required Submittals** – Not used.

## 4.3 Payment

This work will be paid for as outlined below under the following pay items: Perimeter Erosion Barrier, Erosion Control Blanket, Inlet Protection, and Turf Restoration (Topsoil & Seeding, Class 1A), installed and/or complete in place. No separate payment shall be made for erosion control beyond these pay items.

Bid Doc. No. 19-406 Article 3 / Page 5 of 26

## 5 Dewatering

## 5.1 General

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

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

Groundwater will not be allowed to be pumped on existing ground surfaces or pavements where it may cause a traffic nuisance, or into existing sanitary sewers; it shall be discharged to a point acceptable to the District, with appropriate consideration given to erosion control requirements and specifications.

Any permits required to perform dewatering work on this project shall be secured by the Contractor; it shall be his responsibility to provide any bonds, insurance's, 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, the equipment supplied shall be restricted to a noise level of ninety decibels (90 dB) or less.

## **5.2 Required Submittals**

1. Copy of permits, as applicable.

## 5.3 Payment

This work shall be included in the various Contract unit prices and no additional compensation will be awarded.

## 6 Bypass Pumping Sanitary Sewers

## 6.1 General

The Contractor shall provide bypass pumping as required and shall be responsible for providing all pumps, conduits, plugs and other equipment to divert the flow of sewage, as required, to complete the proposed sanitary sewer work. It is the Contractor's sole responsibility to ensure that construction operations do not negatively affect sanitary sewer service to any resident for the duration of construction.

The Contractor shall furnish all necessary labor, equipment, materials and supervision to set up and operate and maintain the pumping system and shall only pump into sanitary manholes approved by the District.

The Contractor shall be responsible for maintaining normal levels of sanitary sewer service to each resident for the duration of construction and shall be responsible for the cleanup, repair, and restoration of damaged property and any costs and claims resulting from sewage backups.

Bid Doc. No. 19-406 Article 3 / Page 6 of 26

Bypass pumping shall be in place and operable prior to the severance or removal of any part of the sanitary sewer collection system. Bypass pumping operations shall accommodate flows from all directions upstream of the proposed point of severance or removal, regardless of the amount of flow or characteristics of flow of each sewer main.

## **6.2 Materials**

The pumping system shall have sufficient capacity to handle the existing flow plus any additional flow that may occur subsequent to rainstorms or during peak flow periods. The Contractor shall provide sufficient inspection personnel to ensure that surcharging and backups do not occur on public or private property. If bypass pumping is required on a 24-hour basis, the equipment supplied shall restricted to noise levels of ninety decibels (90 dB) or less.

All plugs or blocking shall be restrained to ensure that they cannot be washed downstream.

Roadways open to traffic and all driveways will require the use of flow-thru ramps when drive-able hoses cannot be used.

## **6.3 Required Submittals**

- 1. Specifications including pump curves for all pumping equipment, primary and back-up.
- 2. Bypass plan indicating location of pump set(s) and discharge.

## 6.4 Payment

The cost of this work shall be included in the various Contract unit prices and no additional payment will be made.

## 7 Sanitary Sewer, PVC SDR35, 8" Dia.

## 7.1 General

The work under this item includes all labor, equipment, materials, permits, mobilization, site preparation, dewatering, trench excavation, utility protection, pipe bedding, backfilling and compaction, furnishing and installing sanitary sewer pipe, as directed or required, on grade and in line according to the plans and specifications. This item shall also include all required sanitary sewer testing, wye or tee fittings, adapters and risers as required, dewatering, special embedment, power tamping, dust control, supervision, transportation, and any other item necessary to satisfactorily install and test the new sanitary sewer system.

Sanitary sewer pipe that varies  $\pm 0.02$  feet from the proposed grade and/or  $\pm 0.15$  feet from the proposed line will not be accepted. More stringent tolerances may be required in the field where directed by the District. The Contractor shall be solely responsible for setting and maintaining proper lines and grades for all work. The District shall not be obligated to establish construction grade or alignment.

The Contractor shall provide at least one (1) 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 District.

Bid Doc. No. 19-406 Article 3 / Page 7 of 26

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

## 7.2 Pipe Bedding and Trench Backfill

## **Pipe Bedding:**

Pipe bedding for PVC pipe shall be Class IA per ASTM Standard D2321. The trench bottom shall be bedded with six inches (6") minimum crushed stone foundation. Crushed stone shall be placed to a minimum of twelve inches (12") above the top of the pipe.

Prior to placement, the trench bottom shall be graded to form a firm, uniform base for the bedding. Bedding gradation shall be such that it precludes migration of trench wall material into the bedding. In the event the water table is above the bottom of the pipe bedding, or the trench bottom is unstable or unsuitable, a porous granular foundation meeting I.D.O.T. gradation CA-3 shall be installed as necessary below the granular bedding material, extending to the limits of the bedding diagram provided on the District *Standard Detail Sheet* at no additional cost to the District.

Bedding gradation shall be such that the migration of trench wall materials into the bedding layer is prevented; the District shall approve this bedding material after the characteristics of the trench are determined. In the event that the trench bottom is unstable, as determined by the District, the Contractor shall undercut the trench as required and furnish foundation material at no additional cost to the District. The foundation material shall be a coarse aggregate material of a gradation distribution that will inhibit the migration of the bedding material, trench bottoms and walls.

## Trench Backfill:

The Contractor shall use approved select trench backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction* T.S. 2:4–c. Select trench backfill under said structures shall be FA-6, mechanically-compacted in six-inch (6") to eighteen-inch (18") loose lifts to the sub-grade elevation of the road shoulder, sidewalk, driveway, parking lot or other pavement. Materials shall be in accordance with Article 1003.04 and Section 208 of the *I.D.O.T. Standard Specifications*.

The Contractor shall exercise care not to disturb any existing utilities during backfilling and compaction operations.

The Contractor shall furnish a backhoe and operator during the testing of the backfill placed during construction. All select trench backfill shall be compacted to ninety-five percent (95%) of Standard Proctor density; all other backfill shall be compacted to ninety percent (90%) minimum of Standard Proctor density. Compaction shall be according to Method 1 of Article 550.07 of the *I.D.O.T. Standard Specifications*. All compaction tests shall be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. If the tests do not meet the compaction requirements specified above, the area shall be re-compacted and re-tested

Bid Doc. No. 19-406 Article 3 / Page 8 of 26

at the Contractor's expense until the test requirements are met. Use of vibratory rollers will not be permitted on this project.

For granular backfill (FA-6), a vibratory plate, or other approved equipment-mounted compaction equipment must be used by the Contractor 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 on this project.

If initial tests indicate compaction requirements are being met, no further lift testing will be required unless the method, equipment or material changes. The final lift must be tested.

The Contractor shall use reasonable care while backfilling over the sewer. No materials such as rocks or boulders shall be allowed to be dropped directly on the sewer pipe. If these materials are present in the backfill, the Contractor shall bring bedding material to a point 24" above the crown of the pipe. The cost of this additional granular material shall be considered included in the Contract unit price per linear foot of sanitary sewer installed, of the size(s) and type(s) specified.

Contractor shall properly dispose of all spoils at an acceptable offsite location at no additional cost to the District.

The Contractor shall guarantee against trench settlement for a period of three (3) years after final project acceptance.

## 7.3 Materials

## Pipe:

PVC pipe shall be SDR26 meeting the requirements of ASTM D-3034 with joints conforming to ASTM D-3212.

## **Transition Couplings:**

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) or Mission Flex-Seal ARC shear resistant or District approved repair couplings, made of flexible PVC compound with 316 stainless steel clamps and stainless steel rings. Transition couplings shall conform to ASTM D5926 and C1173, as applicable.

All material tests shall be in accordance with manufacturer and District requirements and shall comply with all applicable ASTM specifications. Manufacturer material specifications and certifications for all castings, pipes, fittings, connectors, adapters, etc., must be furnished, upon request, for all materials to be used under this contract.

#### 7.4 Required Submittals

- 1. Pipe, fitting, and repair coupling material specifications.
- 2. Material gradation certifications for proposed bedding material and select trench backfill.

Bid Doc. No. 19-406 Article 3 / Page 9 of 26

## 7.5 Measurement and Payment

Measurement for payment shall be horizontal along the centerline of the installed pipe from center-of-manhole to center-of-manhole. Payment will be made at the contract unit price per Linear Foot of Sanitary Sewer, PVC SDR26, 8" Dia, installed, complete in place.

## 8 Sanitary Manhole, Precast, 4' Dia. and 5' Dia.

## 8.1 General

This work shall consist of furnishing and installing all labor, equipment, materials, transportation, excavation, accessories, connection to existing sanitary sewers with shear resistant transition couplings, trench backfill, and performance of all operations required to construct precast concrete sanitary manholes as directed by the District, all in accordance with the District's *Standard Detail Sheet* and Article 6:3 and 7 of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*. Work shall also include furnishing and installing a District-approved manhole frame and lid (Neenah R-1670, R1915J, or EJ E-1117) adjusted to grade as indicated on plans. Contractor shall field-verify all proposed rim elevations.

Flat top manholes will not be permitted for this project; eccentric cone sections must be a component of all manholes unless otherwise noted.

All standard manholes shall be successfully vacuum tested per ASTM C-1244 "Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test" prior to placing into service.

Shop drawings of all manholes shall be submitted to the District for approval prior to manufacture and delivery to the site. Manhole shop drawings shall include a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.

## Manhole steps:

District approved manhole steps shall be provided with a maximum spacing of 16". The top of the pre-cast cone section shall be set at an elevation that will allow the frame to be adjusted (12" maximum) without disturbing the cone section.

## **Manhole Adjustment:**

The Contractor shall field verify all proposed rim elevations and shall construct manholes in conformance with manhole adjustment requirements. Manhole frames shall be set at finished grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe type. Minimum ring thickness shall be two inches (2"). Maximum ring thickness shall be twelve inches (12"). 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 District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*. Absorption shall comply with ACI Specification P-I-C and ASTM C139, latest revision.

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). Minimum adjusting ring height is four inches (4"). Maximum adjusting ring height is twelve inches (12"). No more than thirty inches (30") from the top of casting to the first step will be allowed. A maximum of one (1) 2" adjusting ring will be allowed.

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

In roadways only: metal or plastic shims will be required if the casting in the roadway must be pitched to match the slope of roadway pavement. Shims must be equally spaced with no more than one-inch (1") of total adjustment. If frame is shimmed, no butyl materials seal (E-Z Stik, Kent-Seal, or equal) will be allowed under the casting. The void area between the casting, and masonry shall be grouted from the outside to the inside face of the adjusting ring, filling the entire void. No trench compaction shall take place until the concrete has cured and hardened to the District's satisfaction. Final manhole adjustment shall meet additional requirements of the applicable roadway authority.

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

## **Manhole Connections:**

The Contractor shall field verify all materials, sizes, and elevations of all existing pipes to be connected. Pipe connections to new manholes shall be made by means of a watertight flexible pipe to manhole connector meeting the requirements of ASTM C923 entitled "Resilient Connectors between Reinforced Concrete Manhole Structures and Pipes." Integrally cast and expandable gaskets are acceptable. The design shall be in accordance with the manhole and pipe manufacturer requirements and shall receive prior District approval. All sanitary manholes equal to or greater than twenty-two feet (22') deep shall use pipe to manhole gaskets rated to a minimum of 15 psi hydrostatic pressure (A-LOK model X-CEL or District approved equivalent).

New manholes that connect to existing sanitary sewers shall be factory constructed with only the opening for the pipe exiting the manhole cast in place. All other proposed openings shall be core-drilled in the field.

All connections between new manholes and existing sanitary sewer shall be made with a minimum of 5.0' of new PVC Pipe. Connection shall be made to structurally sound pipe. Pipe and transition couplings shall conform to the Section titled "Sanitary Sewer" of this document. Pipe sections used to connect new manholes and existing sanitary sewer shall be included in the Contract unit prices for 4' dia. and 5' dia. sanitary manholes.

The Contractor shall construct a paved manhole bench in each manhole per the *Standard Detail Sheet* or per the District's direction.

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.

## **8.2 Required Submittals**

- a. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.
- b. Frame and lid material specifications.
- c. Chimney seals material specifications.
- d. Barrel joint seals material specifications.
- e. Manhole to pipe connection seals material specifications.
- f. Manhole steps material specifications.
- g. Sealant material specifications.

## 8.3 Payment

This work will be paid for at the Contract unit price per Each for Sanitary Manhole, 4' Dia. and Sanitary Manholes, 5' Dia. constructed, complete in place.

## 9 Sanitary Sewer Service, PVC SDR26 WMQ, 6" Dia.

## 9.1 General

Work under this item includes mobilization, site preparation, dewatering, trench excavation, backfilling and compaction, special pipe bedding, furnishing and installing: six—inch (6") diameter PVC (SDR 26) WMQ sanitary service pipe per ASTM D-2241 with ASTM D-3139 gaskets, from the sewer main to the Charles St. right-of-way limits as shown on the plans (or as directed by the District), service risers as shown or directed, bends and air-tight stoppers in the upper end of each service. Service risers will be required at the main where the depth of the sewer main exceeds 13 feet. The risers must be 11.5 feet vertical, minimum, below the first floor elevation, unless otherwise directed or shown on the plans. Where directed or required, the District's Alternative Service Riser Detail shall be used, as shown on the Standard Detail Sheet. Cleanout risers are required at all service termini.

The actual sewer service locations may vary from those shown on the plans. Where possible, the service shall be installed at the property owner's requested location, unless interferences with utilities, grade concerns or other conflicts prohibit the installation of the service at the desired location. No additional payment will be awarded for changes in service locations.

Trench foundation, bedding and pipe laying requirements for PVC services shall be per Article 7.2 above.

## 9.2 Materials

Sanitary Sewer service pipe shall be PVC SDR 26 PVC WMQ pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139.

## 9.3 Required Submittals

- 1. Pipe, fitting, and repair coupling material specifications.
- 2. Material gradation certifications for proposed bedding material and select trench backfill.

Bid Doc. No. 19-406 Article 3 / Page 12 of 26

## 9.4 Measurement and Payment

This work will be paid for at the Contract unit price per Each for Sanitary Sewer Service, PVC SDR26, 6" Dia., installed, complete in place.

## 10 Reconnect Existing 6" Dia. Sanitary Sewer Service, Complete

## 10.1 General

This work shall consist of furnishing and installing new sanitary sewer service pipe (SDR26 WMQ) between the proposed sanitary sewer main and the remaining upstream portions of existing sanitary services, to the property line (or point of connection as shown on the plans) for the service to 4620 Charles St. The service to this property currently discharges into existing Sanitary Manhole #107-010. This item shall include all necessary earth excavation, materials, pipe, risers, fittings, labor, bedding, trench backfill and compaction, temporary plugs, temporary connections, equipment, supervision and work necessary to complete this work with all necessary appurtenances. This work shall include locating the existing service, connecting the service to the new sanitary sewer main or the new 5' dia. sanitary manhole (at the direction of the District), and reconnecting to the private sanitary sewer service and installing a cleanout at the property line as shown on the plans. The existing sanitary sewer services are believed to be 6' diameter cast iron pipe, but actual pipe size and material may differ. This work shall conform to the Rock River Water Reclamation District standard details and the Illinois State Plumbing Code. The Contractor shall maintain adequate levels of wastewater removal from the affected residence until the service has been re-connected, accepted and approved for use. Bypass pumping shall be provided, as necessary, as specified elsewhere herein.

Sanitary sewer service reconnections shall be laid at a minimum 1.0% slope. All work shall be performed in accordance with State and local plumbing codes.

The Contractor shall be responsible for maintaining the current level of service to all users connected to the existing sanitary sewer.

A District Registered and Bonded Private Property Plumbing Contractor must do the reconnection work. A Connection permit for the sewer service reconnection will be required from the District but no permit fee will be applied.

Connection shall be made to a structurally sound pipe. Connection to the existing sewer service shall not be made until the District Inspector has verified the structural condition.

The location of the existing sewer service are based upon TV logs and record information, and the proposed service connections are based upon those locations. Should the service alignment, diameter or point of connection vary from that shown in the plans, no claims for additional compensation will be entertained.

A service riser cleanout as indicated on the Rock River Water Reclamation District Standard Detail Sheet shall be installed at the property/right-of-way line as indicated on the plans or as otherwise directed. Cleanouts will be required where shown on the plans and where required by the Illinois State Plumbing Code. Should the cleanout riser be located in a pavement surface or sidewalk, a 4" or 6" frame and lid shall be installed on the clean out riser. A threaded cleanout cap with a raised

plug shall be installed to 1 foot below finished grade in turf areas. New services that will not be air pressure tested shall have a threaded PVC cap.

## 10.2 Materials:

Sanitary sewer service replacement pipe shall be 6" SDR 26 WMQ PVC meeting the requirements of ASTM D2241. Joints shall meet the requirements of ASTM D3139. The new service shall connect to the new sewer main using factory wye fittings. Bypass pumping for sanitary sewers shall be in conformance with the "Bypass Pumping Sanitary Sewers" Section of these Specifications.

Clay or Cast Iron Pipe to PVC pipe transitions shall be made by use of shear resistant flexible Clay or C.I.P.-to-PVC adapters (Fernco Model 5000, or approved equivalent). The transition shall be made on existing pipe that is structurally sound.

## **10.3** Measurement and Payment

This work will be paid for at the Contract unit price per Each for Reconnect Existing Sanitary Sewer Service, Complete.

## 11 Sanitary Manhole Removal

## 11.1 General

This work shall consist of removing and disposing of existing 4' dia. sanitary Manhole #107-010. All work shall conform to Article 605.03 of the *LD.O.T. Standard Specifications*.

Remove the frame and cover and deliver to the District's North Facility at 4850 Torque Road, Loves Park, IL. North Facility is open from 7:00 a.m. to 3:30 p.m. M-F. Coordinate with Brian Markgraf at (815)-543-3470 a minimum of one (1) hour prior to delivery, to ensure available access to facility. District staff will be required to fill out the District's Manhole Casting Drop Off/Pick Up sign-in sheet.

Bypass pumping necessary to complete this removal shall be included in this pay item and no additional compensation will be made.

## 11.2 Required Submittals – Not used.

#### 11.3 Payment

Payment shall be made at the Contract unit price per Each for Sanitary Manhole Removal.

## 12 Driveway Removal

#### <u> 12.1 General</u>

This work shall be done in accordance with Section 440 of the IDOT Standard Specifications for Road and Bridge Construction, Current Edition and shall involve the complete removal and disposal of the existing hot-mix asphalt driveways at 4620 Charles Street, 4630 Charles Street, and 4640 Charles Street to the limits indicated on the plans. This pay item shall also include removal of the existing subgrade below the driveway pavement to the depths necessary to achieve the full driveway reconstruction (6" of Aggregate Base Course, Type B with 2" of Hot-Mix Asphalt surface

Bid Doc. No. 19-406 Article 3 / Page 14 of 26

course). Maximum pay limits for the removal are shown on the plans; the Contractor shall not remove any pavement outside of these limits without receiving written approval from the District. Unless otherwise approved by the District, any damage done to adjacent pavements during construction shall be replaced (full depth) by the Contractor as no additional cost to the District.

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

Access to the driveways must be maintained during the period before final pavement restoration by utilizing temporary aggregate or similar measures. Drop offs between the existing edges of pavement and the driveway subgrade will not be allowed; temporary aggregate ramps shall be maintained at all times.

## **12.2 Required Submittals** – Not used.

## 12.3 Payment

Payment shall be made at the Contract unit price per Square Yard of **Driveway Removal.** 

## 13 Inlet Removal

## 13.1 General

This work shall conform to Section 605 of the *IDOT Standard Specifications* and shall include the full or partial remove and disposal of existing storm sewer inlets where shown on the plans.

## **13.2** Materials – Not used.

## 13.3 Required Submittals - Not used

## 13.4 Payment

Payment shall be made at the Contract unit price per Each for Inlet Removal.

## 14 Storm Sewer Removal

## 14.1 General

This work shall conform to Section 501 of the *IDOT Standard Specifications* and shall include the full or partial removal and disposal of existing 15" and 18" diameter storm sewer pipes to the lengths indicated on the plans. The existing storm sewer pipes are of various material types, including corrugated metal, reinforced concrete, and corrugated polypropylene; no additional compensation shall be granted for removal of differing material types but shall be included in this pay item.

Disposal of the materials shall be done in accordance with Article 202.03 of the *I.D.O.T.* Standard Specifications.

Upon removal of the existing inlets and storm sewer pipes, positive drainage to the downstream storm sewer system shall be maintained via grading and/or temporary pipes. Any costs

Bid Doc. No. 19-406 Article 3 / Page 15 of 26

associated with these temporary conditions shall be included in this pay item and no additional costs will be considered.

**14.2 Materials** – Not Used.

## <u>14.3 Required Submittals</u> – Not Used.

## 14.4 Payment

Payment shall be made at the Contract unit price per Linear Foot of **Storm Sewer Removal**.

#### 15 Aggregate Base Course, Type B, 6"

## 15.1 General

This work shall consist of placing compacted Aggregate Base Course, Type B, beneath the driveway surfaces to be replaced at 4620 Charles Street, 4630 Charles Street, and 4640 Charles Street. This work shall include subgrade preparation, removal and disposal of excess material, furnishing, placing, installing and compacting course aggregate, and trimming and prepping aggregate base for subsequent pavement placement. This work shall be in conformance with Section 351 of the IDOT Standard Specifications for Road and Bridge Construction, Current Edition.

## 15.2 Materials

Aggregate base course shall be Gradation CA-6 and 6" in total completed thickness. Course Aggregates shall be in accordance with Article 1004 04 of the IDOT Standard Specifications for Road and Bridge Construction, Current Edition.

## **15.3 Required Submittals**

1. Material gradation certifications for aggregates.

15.4 Measurement and Payment
This work will be paid for at the Contract unit price per Square Yard for Aggregate Base Course, Ty. B, 6", complete, in place.

#### 16 Hot-Mix Asphalt Surface Course, N50, IL-9.5, Mix "C", 2"

This work shall be in accordance with T.S. 4:3/Pavement Restoration of the General Provisions and Technical Specifications for Sanitary Sewer Construction in the Sanitary District of Rockford, and with Section 406 of the IDOT Standard Specifications for Road and Bridge Construction, Current Edition.

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

Tack coat shall be SS-1 bituminous materials; all costs associated with placement of the tack coat shall be included in this pay item.

Bid Doc. No. 19-406 Article 3 / Page 16 of 26

## 16.2 Materials

HMA Surface Course shall be Mix "C", IL-9.5, N50 in accordance with Section 1030 of the IDOT Standard Specifications for Road and Bridge Construction, Current Edition.

Tack coat shall be SS-1 in accordance with Section 1032 of the IDOT Standard Specifications.

## **16.3 Required Submittals**

- 1. HMA mix designs.
- 2. Tack Coat material certifications.

## **16.4 Measurement and Payment**

This work will be paid for at the contract unit price per Ton for Hot-Mix Asphalt Surface Course, N50, IL-9.5, Mix "C", 2" complete, in place. Surface course mixture in excess of 103% of the adjusted plan quantity will not be measured for payment. The adjusted plan quantity for surface course mixtures shall be calculated in accordance with Article 406.13(b) of the IDOT Standard Specifications for Road and Bridge Construction, Current Edition.

## 17 Aggregate Wedge Shoulder, Type B

## 17.1 General

This work shall consist of the placement, shaping, trimming, and compacting of additional aggregate to fortify and supplement the existing aggregate shoulder on the north side of Charles Street once all construction (including turf restoration) is completed. This work shall be in conformance with Article 481.07 of the *I.D.O.T. Standard Specifications*. All work shall be done to the satisfaction of the District and the jurisdictional Roadway Authorities. It is assumed that the wedge shoulder will extend up to 6" from the existing edge of pavement, and be a depth of 2"-3". The materials shall be placed and shaped in such a manner that will give the aggregate shoulder a finished appearance.

## 17.2 Materials

Course Aggregates shall be in accordance with Article 1004.04 of the *I.D.O.T. Standard Specifications*. Aggregate for the wedge shoulder shall be CA-6 or CA-10 gradation per Article 1004.04(c).

## 17.3 Required Submittals

1. Material gradation certifications for aggregates.

## 17.4 Measurement and Payment

This work will be paid for at the Contract unit price per Ton for **Aggregate Wedge Shoulder**, **Type B**.

## 18 Inlets, Type B with Type 8 Frame and Grate

#### 18.1 General

This work shall be done in accordance with Section 602 of the *IDOT Standard Specifications* and shall consist of furnishing and installing all labor, equipment, materials, transportation,

Bid Doc. No. 19-406 Article 3 / Page 17 of 26

excavation, accessories, and trench backfill required to construct inlets in the locations indicated in the plans. This item shall also include the connection of existing storm sewers to the proposed inlets, as applicable.

## 18.2 Materials

Inlets shall be constructed in accordance with IDOT Highway Standard 602306-03: Inlet, Type B. Type 8 Frame and Grate shall be in accordance with IDOT Highway Standard 604036-03: Frame and Grate Type 8 and be ductile iron in accordance with Article 1006.15 of the IDOT Standard Specifications.

## 18.3 Required Submittals

- 1. Material certification and shop drawings for the inlets.
- 2. Material certification for the frame and grate.
- 3. Gradation report for the trench backfill material.

## **18.4** Measurement and Payment

This work will be paid for at the Contract unit price per Each for Inlets, Type B with Type 8 Frame and Grate installed, complete in place.

## 19 Storm Sewers, Class B, Type 1 – 18" Dia., CPP

## 19.1 General

This work shall conform to Section 550 of the *IDOT*. Standard Specifications and shall include furnishing and installing storm sewers to the line and grade as shown on the plans. All pipe shall be corrugated polypropylene pipe with a smooth interior with joints in accordance with ASTM D3212. All joints shall be wrapped with nonwoven geotextile fabric. Where pipe is to be connected to existing storm sewer, the pipe shall either be joined at an existing joint or secured via an approved coupling and/or fitting; all costs associated with connecting to the existing storm sewer shall be considered included in this pay item.

All storm sewer to be installed under or within 2' of pavements, curbs, driveways, and/or sidewalks shall be backfilled with District-approved trench backfill material. Trench backfill shall be compacted to 95% of the standard laboratory density in accordance with Method 1 in Article 550.07(a) of the *IDOT Standard Specifications*. No additional compensation will be made for trench backfill – the costs shall be included with this pay item.

## 19.2 Materials

Corrugated polypropylene pipe shall be in accordance with Section 1040.08 of the *IDOT Standard Specifications*. Nonwoven geotextile fabric shall be in accordance with Section 1080.01 of the *IDOT Standard Specifications*. Trench Backfill shall be in accordance with Article 1003.04 of the *IDOT Standard Specifications*.

## 19.3 Required Submittals

- 1. Material certification for the corrugate polypropylene pipe.
- 2. Material certification for couplings and/or fittings.
- 3. Material certification for the geotextile fabric.

Bid Doc. No. 19-406 Article 3 / Page 18 of 26

4. Gradation report for the trench backfill material.

## 19.4 Payment

Payment shall be made at the Contract unit price per Linear Foot of Storm Sewers, Class B, Type 1-18" Dia.

## 20 Tree Removal / Clearing and Grubbing

## 20.1 General

This work shall include the clearing of the areas identified on the plans and disposal of all existing materials encountered, the full removal and disposal of all trees identified on the plans (including removal of the stump to a depth not less than 12" below the existing grade), and the trimming of trees to accommodate construction operations. Materials encountered to be cleared, removed, and trimmed include, but are not limited to, downed timber, shrubs, brush, vines, roots, stumps, undergrowth, mulch, and trees. All materials removed shall be disposed of off-site in a legal manner, with the exception of the 24" dia. maple tree located at 4620 Charles Street (approximate STA 0+91). This tree shall have all limbs smaller than 8" dia. removed and the remaining tree shall be cut into 4'-6' lengths and shall be stacked in the front lawn of 4620 Charles Street at a location acceptable to the property owner.

All trees to be removed shall be approved by the District in the field prior to removal.

Restoration of the areas disturbed shall be completed under the *Turf Restoration* pay item.

## **20.2 Required Submittals** – Not used.

## 20.3 Payment

Payment shall be made at the contract unit price per Lump Sum of Tree Removal / Clearing and Grubbing.

## 21 Temporary Construction Fence

#### 21.1 General

This work involves installation of furnishing and installing temporary construction fence where indicated on the plans for the protection of the private property north of the Charles Street right-of-way. Maintenance, final removal, and restoration of the areas where the fence was installed shall be considered incidental to this item. All fencing shall be a minimum of 4' high with stakes placed a maximum of 15' apart.

If the Contractor elects to use temporary construction fence of this type to protect materials, open excavations, or equipment during the construction operations, such fence shall not be paid for under this pay item but shall be included in the various Contract unit prices.

## 21.2 Materials

All temporary fencing shall be either orange plastic construction fence or chain link fence.

Bid Doc. No. 19-406 Article 3 / Page 19 of 26

## 21.3 Required Submittals.

1. Material certification for fence.

21.4 Payment
This work will be paid for at the Contract unit price per Linear Foot of Temporary Construction Fence, complete, installed in place.

#### 22 **Inlet Protection**

## 22.1 General

This work shall be in accordance with Section 280 of the IDOT Standard Specifications and consist of furnishing, installing, maintaining, and final removal of drainage inlet protection devices.

Inlet protection shall consist of filters installed under drainage structure grates.

All inlet protection shall be installed prior to excavation (exploratory or otherwise). All measures shall be removed upon final turf restoration.

## 22.2 Materials

All inlet protection filters shall be in accordance with Article 1081.15(h) of the IDOT Standard Specifications.

## 22.3 Required Submittals

1. Material certifications for the inlet protection filters.

## 22.4 Payment

Payment shall be made at the Contract unit price per Each of Inlet Protection, complete in place.

#### 23 **Erosion Control Blanket**

## 23.1 General

This work shall be in accordance with Article 251.04 of the I.D.O.T. Standard Specifications. Erosion control blanket shall be installed on seeded areas within 24 hours of seed placement.

Erosion control blanket shall be used on all turf restoration areas as shown on the plans. All seeded areas completed under "Turf Restoration" shall have erosion control blanket installed.

#### 23.2 Materials

All erosion control blanket shall be in accordance with Article 1081.10(a) and/or Article 1081.10(c) of the *I.D.O.T. Standard Specifications*.

## 23.3 Required Submittals

1. Material certifications for the erosion control blanket.

Article 3 / Page 20 of 26 Bid Doc. No. 19-406

# 23.4 Payment

Payment shall be made at the Contract unit price per Square Yard of Erosion Control Blanket, complete, in place.

# 24 Turf Restoration, Complete (Topsoil and Seeding, Class 1A)

# 24.1 General

This work shall include preparing areas to be seeded, furnishing and placing topsoil as required, removal and disposal of unsuitable materials, seeding, fertilizing, and maintenance until final acceptance.

All restoration shall be completed in accordance with public agency requirements, or on private property, equal to or better than the pre-construction conditions unless otherwise directed by the District. 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 and dry wells, etc., disturbed or damaged as a result of this construction project shall be promptly completed, equal to or better than the pre-construction conditions, as directed by the District. All restoration shall be guaranteed by the Contractor for a period of one (1) year following satisfactory completion and final acceptance of the work. Topsoil shall be as specified in T.S. 4:2c of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

All drainage devices shall be cleaned of debris and replaced at original elevations. Pipes, which in the estimation of the District, have been 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 District. All work shall be to the satisfaction of the District. When necessary, temporary restoration of roads, drives, fences, etc. will be required, all costs included in the various Contract unit prices.

Suppliers shall be prepared to certify that their product has been satisfactorily laboratory and field tested and that it meets all of 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.

## Seeding

This work shall be in accordance with Section 250 of the IDOT *Standard Specifications*. Ground surfaces including right—of—ways that were turf prior to construction shall be seeded according to all applicable specifications and as directed by the District. 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.

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

Bid Doc. No. 19-406 Article 3 / Page 21 of 26

The seeding mixture used shall be IDOT Class IA Salt Tolerant Lawn Mixture in all turf restoration areas.

Reference is made to the District's *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 District shall approve the locations from which the topsoil is to be obtained. When requested by the District, a sample of the proposed topsoil shall be submitted to the District in a one–quart glass container, completely filled, with a chemical and mechanical analysis of the topsoil by an approved testing laboratory.

Seeding methods shall follow those mentioned in Article 250.06 of the IDOT *Standard Specifications*. Mowing to discourage weed growth will be completed by the Contractor until the project is accepted by the District.

# **Fertilizing**

Fertilizer work shall be done in accordance with Article 250.04 of the IDOT *Standard Specifications* and be applied at the rate of 400 lbs./acre.

### Mulch

Erosion Control Blanket shall be installed over all seeded areas – straw mulch shall not be used. Erosion Control Blanket shall be paid for at the Contract unit price per Square Yard under the *Erosion Control Blanket* pay item.

### 24.2 Materials

Topsoil utilized from off-site sources shall be in accordance with Article 1081.05(a) of the IDOT *Standard Specifications*.

Seed mixtures shall be IDOT Class IA seed mixtures in accordance with Article 1081.04 of the IDOT *Standard Specifications*.

Fertilizer shall have 270 lbs. of nutrients per acre with an analysis of 10-10-10 and be in accordance with Article 1081.08 of the IDOT *Standard Specifications*.

# 24.3 Required Submittals

- 1. Topsoil certifications (if being delivered from off-site).
- 2. Seed mixtures.
- 3. Fertilizer specifications and certifications.

### 24.4 Payment

This work will be paid for at the Contract unit price per Lump Sum for **Turf Restoration**, **Complete** which shall include furnishing topsoil and placing topsoil, seedbed preparation, seeding and fertilizer application.

# **25** Epoxy Pavement Markings – Line 4"

# 25.1 General

This work shall be in accordance with Section 780 of the *IDOT Standard Specifications* and consists of installing epoxy pavement markings along the northerly edge of pavement of Charles Street, within the limits disturbed by the construction. The pavement markings shall be a 4" wide white line.

The Contractor shall layout all markings with temporary construction paint. Prior to beginning the final installation of the epoxy pavement markings, District and Winnebago County Highway Department personnel must review and approve the layout.

# 25.2 Materials

Epoxy pavement markings shall be in accordance with Article 1095.04 of the *IDOT Standard Specifications*. Color shall be white.

# 25.3 Required Submittals

1. Material certification for the epoxy pavement markings.

# 25.4 Payment

Payment shall be made at the Contract unit price per Linear Foot of **Epoxy Pavement Markings** – **Line 4**"

# **26** Traffic Control and Protection, Complete

# 26.1 General

Contractor shall be solely responsible for the safety of the operations, and shall comply with all state, local and OSHA regulations. Contractor shall retain a person competent in complying with OSHA trenching and excavation requirements on site at all times. The person shall be capable of identifying existing and probable hazards in the surroundings, or working conditions which are unsanitary, hazardous or dangerous to employees, and shall be authorized to take prompt corrective measures to eliminate them. The means and methods to comply with construction site safety are the sole responsibility of the Contractor. District staff is not responsible for the Contractor's compliance procedures.

The Contractor shall obtain all permits required by the governing roadway agencies and shall provide detailed traffic control plans as required and implement and maintain approved traffic control measures, including detour routes, as required. Traffic control and protection shall be in accordance with the *IDOT Standards Specifications* and *IDOT Highway Standards*, current edition.

All work zone traffic control and protection shall be in compliance with the *Manual on Uniform Traffic Control Devices*, current edition.

Bid Doc. No. 19-406 Article 3 / Page 23 of 26

The Contractor shall coordinate traffic control with the Winnebago County Highway Department (WCHD). An Urban Lane Closure of Charles Street (in accordance with IDOT *Highway Standard* 701501-06) will be allowed during weekdays between 8:00 AM and 4:00 PM. Five (5)-day advance notice of pending lane closures shall be posted at the job site on signs approved by the roadway authority. The local roadway authority shall approve traffic control plans any and all detours/road closures prior to the start of construction.

# 26.2 Required Submittals

1. Copies of approved traffic control plans.

# 26.3 Payment

This work will be paid for at the Contract Lump Sum price for **Traffic Control and Protection**, **Complete**.

# **27 Quality Control Tests and Certification**

# 27.1 General

All costs of testing, installing, re-installing, backfilling, compaction, and re-testing of sanitary sewers and services shall be borne by the Contractor. All pipe shall be tested in accordance with ASTM and manufacturer's standards. The manufacturer shall furnish certified test reports with each shipment of pipe, run or unit of pipe extrusion.

Final, satisfactory low-pressure air tests, deflection tests and manhole vacuum tests shall be performed no later than sixty (60) days after the installation of each sewer main section (manhole-to-manhole). The 60-day period starts with the completion of the sewer main, not the completion of the sewer services. The District reserves the right to suspend any or all work until the Contractor fully complies with this requirement.

### **27.2** Tests

The Contractor shall perform pipe deflection testing and pipe low pressure air testing (T.S. 9.1 of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*,) upon completion of installation, bedding, backfilling and compaction of each sanitary sewer main section. The Contractor shall arrange at his expense mandrel (deflection) and low-pressure air tests of the pipe.

Low pressure line testing will be required on the new sanitary sewer mains. All sewer mains from existing manhole to new manhole or new manhole to new manhole shall be mandrel (deflection) tested.

After the final installation, backfilling and compaction have been completed and prior to starting the roadway replacement, low-pressure air tests and deflection tests shall pass on all sewer pipes as stated below.

Bid Doc. No. 19-406 Article 3 / Page 24 of 26

# **27.2.1 Low Pressure Air Test**

Low pressure air tests will not be required on this project due to the public sewer connections. In lieu of this test, District personnel will televise the sewer main upon completion of construction for final acceptance.

### **27.2.2 Pipe Deflection Test**

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

If the vertical deflection exceeds five percent (5%) of the diameter, the Contractor shall replace the pipe. In the event that this pipe is used for replacement, it will be subject to the same vertical deflection test.

The District reserves the right to make a vertical deflection test within a year of the construction.

If deflection exceeds five percent (5%), the Contractor is responsible for replacing the pipe, as per G.C. 7:4 of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

In addition to the above and T.S. 8:2(c) of the District's *General Provisions and Technical Specifications for Sanitary Sewer Construction*, use the following deflection test:

Testing of all lines shall be done with a mandrel, pulled through all lines except the house leads. The diameter of the gauge shall be set at ninety–five percent (95%) of the un-deflected inside diameter of the flexible pipe. The Pin–Type Go/No–Go Gauge will stop at any area in a flexible underground pipeline having vertical ring deflection greater than five percent (5%).

All pipe exceeding this deflection shall be considered to have reached the limit of serviceability and shall be re-laid or replaced by the Contractor at no additional cost to the owner, (WPCF Manual of Practice No. 9, page 222).

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

# 27.2.3 Vacuum Testing

All new manholes shall be vacuum tested per ASTM C-1244 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to placing into service.

# 27.3 Measurement and Payment

No separate measurement or payment will be made for this work. All costs shall be included in the Contract unit price per Linear Foot of **Sanitary Sewer**, **PVC SDR35**, **8" Dia**. installed, complete in place.

# 28 Cleanup

# 28.1 General

At the completion of work, the Contractor shall clean up and remove all construction debris, materials, equipment, machines, etc., from the entire project area. All excavations shall be backfilled neatly to near original grade, and any excess materials shall be hauled away to an offsite location acceptable to the District. All roadway surfaces shall be kept free and clear of all mud and construction debris.

# 28.2 Payment

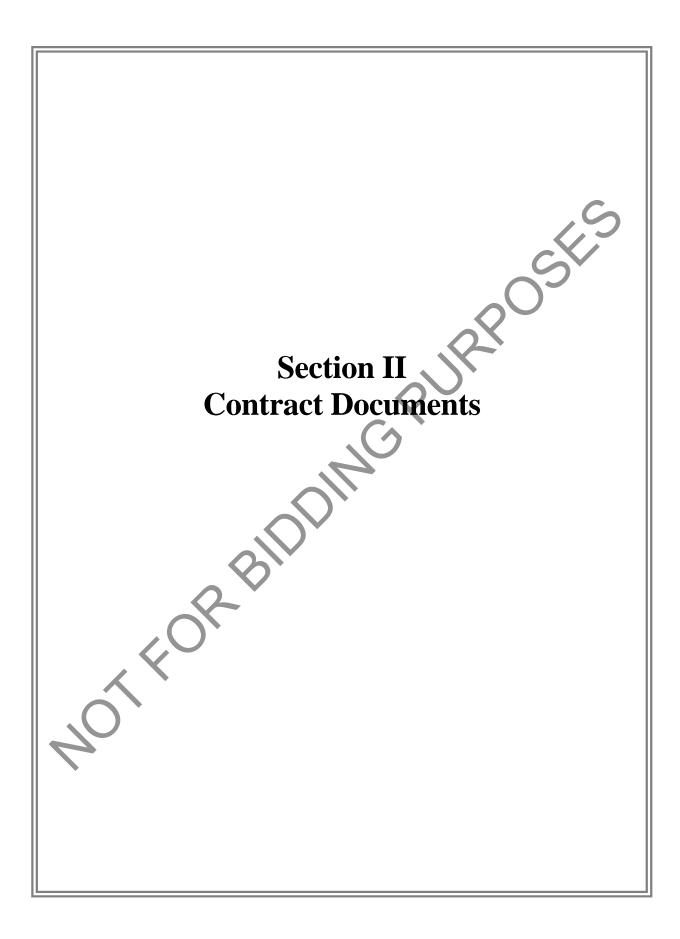
No separate payment will be made for Cleanup, complete. All costs associated with this work shall be included in the various Contract pay items.

# 29 Soil Borings

# 29.1 General

The soil borings attached hereto are for informational purposes only. The Contractor shall verify the actual soil conditions prior to submitting a bid. No additional compensation will be allowed for subsurface conditions at variance with the borings taken.

Bid Doc. No. 19-406 Article 3 / Page 26 of 26



# **Proposal**

**PROJECT:** Charles Street Sanitary Sewer Extension, Special Assessment No. 132

**LOCATION:** The work extends through the public right-of-way of Charles Street in

Rockford Township, Winnebago County, IL.

**BID OPENING**: 10:30 a.m., May 14, 2019, at the Rock River Water Reclamation Offices

at 3501 Kishwaukee Street, Rockford, IL

**COMPLETION DATE**: August 2, 2019

LIQUIDATED DAMAGES: \$300/calendar day

To: Board of Trustees

Rock River Water Reclamation District

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 Rock River Water Reclamation District all in accordance with the plans and specifications, provided by the Rock River Water Reclamation District. 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.

Bid Doc. No. 19-406 Proposal / Page 1 of 7

- 3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bidrigging 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 Rock River Water Reclamation District, which it is agreed, shall be retained as liquidated damages by said Rock River Water Reclamation District 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 Rock River Water Reclamation District, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the Rock River Water Reclamation District.
- 7. No officer or employee or person whose salary is payable in whole or in part by the District is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety of otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it is relates, or in any portion of the profits thereof.
- 8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify the District and the representatives of the District and the Village.

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 99-093 and will make this information available upon request.

Bid Doc. No. 19-406 Proposal / Page 2 of 7

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 the Rock River Water Reclamation District) to submit certified payroll records on a monthly basis, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing false records is a Class B Misdemeanor. The successful Bidder shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. Prevailing wage found the Illinois Department of Labor website rates may be on https://data.illinois.gov/dataset/idol-2018-prevailing-wage-rates

The certified payroll records must include the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending time of work each day, for every worker employed on the project. Any contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B Misdemeanor. Certified payroll reports shall be submitted on industry standard forms such as IDOT Statement of Compliance (SBE 348) or other approved equal.

- 11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
- 12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".
- 13. The undersigned, as Bidder, declares he will comply with Article 2 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.

Bid Doc. No. 19-406 Proposal / Page 3 of 7

In submitting this bid, it is understood that the right is reserved by the Rock River Water Reclamation District 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.



Bid Doc. No. 19-406 Proposal / Page 4 of 7

Item No.	Quan- tity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	315.0	LF	SANITARY SEWER, PVC SDR35, 8" DIA.	(III WITHING)	(In Figures)	(III Figures)
2	1.0	EA	SANITARY MANHOLE, 4' DIA.			
3			SANITARY MANHOLE, 5' DIA.		S	
4	1.0 2.0	EA EA	7			
4	2.0	EA	SANITARY SEWER SERVICE, PVC SDR26 WMQ, 6" DIA. RECONNECT EXIST. 6" DIA. SANITARY SEWER			
5	1.0	EA	SERVICE			
6	1.0	EA	SANITARY MANHOLE REMOVAL, 4' DIA.			
7	173.0	SY	DRIVEWAY PAVEMENT REMOVAL			
8	4.0	EA	INLET REMOVAL	0		
9	344.0	LF	STORM SEWER REMOVAL			
10	202.0	SY	AGGREGATE BASE COURSE, TY. B, 6"			
11	21.0	TON	HMA SURFACE COURSE, N50, IL-9.5, MIX "C", 2"			
12	3.0	TON	AGGREGATE WEDGE SHOULDER, TYPE B			
13	4.0	EA	INLETS, TYPE B WITH TYPE 8 FRAME & GRATE			
14	344.0	LF	STORM SEWERS, CLASS B, TYPE 1, 18" DIA., CPP			
15	1.0	LS	TREE REMOVAL / CLEARING AND GRUBBING			
16	351.0	LF	TEMPORARY CONSTRUCTION FENCE			
17	8.0	EA	INLET PROTECTION			
18	1.0	EA	DITCH CHECK			
19	560.0	SY	EROSION CONTROL BLANKET			
20	1.0	LS	TURF RESTORATION, COMPLETE			
21	350.0	LF	EPOXY PAVEMENT MARKING - LINE 4"			
22	1.0	LS	TRAFFIC CONTROL & PROTECTION, COMPLETE			
			TOTAL BID PRICE:	(In W	riting)	(In Figures)

Bid Doc. No. 19-406

Proposal/Page 5

The undersigned acknow	wledges that he has received Adder	ndum numbers,	, and realizes that all
Addenda are considered	part of the contract.		C
,		By:	
Firm Name			
Name:	Title:	Date:	
		80	
		(6)	
		3/1	

Bid Doc. No. 19-406

# **Fair Employment Practices Affidavit of Compliance**

PROJECT: Charles Street Sanitary Sewer Extension, Special Assessment No. 132 NOTE: THE BIDDER MUST EXECUTE THIS AFFIDAVIT AND SUBMIT IT WITH ITS SIGNED BID. THE ROCK RIVER WATER RECLAMATION DISTRICT 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: \_\_\_ 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 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.

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 offered a great and applicants. 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. 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. That he or she will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Departments Rules and Regulations. 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. That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contacts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations. (Source: Amended at 32 I11. Reg. 16484, effective September 23, 2008)" Expiration Date: \_\_\_\_\_ IL Dept of Human Rights Registration No.: \_\_\_\_ Signature \_\_ day of \_\_\_\_\_\_\_, 20\_\_\_\_ Subscribed and sworn to before me this \_\_\_\_

Bid Doc. No. 19-406

Notary Public

# **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 Rock River Water Reclamation District of Winnebago
County, Illinois (District), in the full and just sum of: <b>TEN PERCENT (10%) OF THE TOTAL BID PRICE</b> , good lawful money of the United States of America, to be paid upon demand of the District, 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 the District, a proposal for constructing Sanitary Sewers and Appurtenances.
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 the District, and execute a sufficient and satisfactory Contract
Performance Bond payable to said District in an amount of one hundred percent (100%) of the Contract price (including alternates) in form and with security satisfactory to said District, 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 District, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

Bid Doc. No. 19-406 Bid Bond / Page 1 of 2

IN TESTIMONY THEREOF, the Principal and sealed this day of,	and Surety have caused these presents to be duly signed 20
and sealed this day of,	<u> 20</u>
	Ditaria 1
	Principal
(Seal)	By S
	Name:
	Title:
	Date:
ATTEST:	Dutc.
ATTEST.	
	.(^)
Secretary	,40
	Surety
	Suicty
(Seal)	Ву
7.0	Name:
/ X	Title:
	Date:

Bid Doc. No. 19-406 Bid Bond / Page 2 of 2

# Agreement

# 1. General

THIS AGREEMENT, made and	d concluded this	day	of		,
2019, between the Rock River Water 1	Reclamation District	, Rockford,	Illinois	(District)	), acting by
and through the Board of Trustees and			, ł	nis/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 the District and according to the terms expressed in the Bond referring to these presents, the Contractor agrees with the District 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 the District 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

The District shall pay to the Co	ntractor, and the	Contractor sha	all accept, in full p	payment for the
performance of this Contract, subject t	to any additions	or deductions	provided for her	reby, in current
funds, the Total Contract Price of		_ dollars and _	/100 (\$00000	0.00).

Payments are to be made to the Contractor in accordance with and subject to the provisions of Section 6 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 \_\_\_\_\_\_\_ dollars and \_\_\_\_/100 (\$00.00) 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 the District 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 District, its officers and agents from any injury done to property or persons as a direct or alleged result of imperfections in the Contractors' work, and shall

Bid Doc. No. 19-406 Agreement Page 1 of 5

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 the District, the District 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 the District 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 the District from all suits, claims, and actions brought against it, and all cost, and damages which the District 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 the District or its representative, or who shall be deemed by the District 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 the District.

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

The District 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 the District receives an acceptable invoice prior to the tenth day of the month and receives approval of the work by the District Engineering Manager, the District shall issue payment before the fifth day of the succeeding month. If the District receives an acceptable invoice on or after the tenth day of the month, the District shall issue payment before the fifth day of the second succeeding month.

The District 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.

The Contractor will be paid for the sanitary sewer of this project in part in Special Assessment vouchers at par with interest at 5% per annum. Cash shall be drawn from the District Public Benefit Fund to pay a portion of the project.

Bid Doc. No. 19-406 Agreement Page 2 of 5

# Charles St. Special Assessment No. 132 cash payments shall be determined as follows:

- 1. Construction Cost (CC) = Contractor's Bid
- 2. Engineering (E) =  $CC \times .15$
- 3. Reserve for Deficit (RD) = .045 x (CC+E)
- 4. Cost of Making (CM) =  $.045 \times (CC+E)$
- 5. Total Project Cost (TPC) = CC+E+RD+CM
- 6. Property Benefit Amount (PBA) = \$55,060
- 7. Public Benefit (PB) = TPC PBA
- 8. Minimum Cash to Contractor = PB (E+RD+CM)

Payments to be made in accordance with these bidding requirements and those additional provisions contained in the attached contract forms.

# 8. Subcontracts

No part of the work herein provided for shall be sublet or subcontracted without the express consent of the District, 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 the District 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. Certified payroll reports shall be submitted on standard IDOT forms.

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 the District 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)

Bid Doc. No. 19-406 Agreement Page 3 of 5

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 99-0933, which requires any party to a contract to adopt and enforce a written policy regarding sexual harassment that includes, as a minimum, the following information:

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

Upon request this information will be provided to the Illinois Department of Human Rights. Upon District award of a contract, the District will be provided this information described no more than ten (10) working days after the District issues its award notification.

The Contractor shall comply with Article 2 of 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 issuance of written Notice to Proceed. The completion date for this project shall be August 2, 2019. Failure to complete the project by the contract completion date will result in liquidated damages.

# 11 **Diquidated 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

Bid Doc. No. 19-406 Agreement Page 4 of 5

transmitted by electronic mail in so-called "pdf" format shall be legal and binding and shall have the same full force and effect as if an original of this Agreement had been delivered. Each of the parties (a) intend to be bound by the signatures on any document sent by facsimile or electronic mail, (b) are aware that the other party will rely on such signatures, and (c) hereby waive any defenses to the enforcement of the terms of this Agreement based on the foregoing forms of signature.

# 13. Seals

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

	Winnebago County, Illinois
(Seal)	OUPX
	By President, Board of Trustees
ATTEST: Clerk of the Board	Olly
QP BIII	Contractor
(Corporate Seal)	ByContractor's Officer
	Name:
40	Title:
	Date:
ATTEST:	

Bid Doc. No. 19-406 Agreement Page 5 of 5

# **Performance Bond**

KNOW ALL MEN BY THESE PRESENTS, that WHEREAS, the Rock River Water
Reclamation District has awarded to:
hereinafter designated as the "Principal", a contract, dated,, for the Rock River
Water Reclamation District.
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 Rock River Water Reclamation District 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 Rock River Water Reclamation District, 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 Rock River Water Reclamation District shall be named as beneficiary on this Performance Bond.

· · · · · · · · · · · · · · · · · · ·	parties have executed this instrument under their, 2019, the name and corporate seal of each
	nese presents duly signed by its undersigned
CONTRACTOR Contractor Firm Name:	SURETY
By:	By:Signature Attorney-in-Fact
Title	Resident Agent
ATTEST:	aller I
Corporate Secretary (Corporations only)	(5)
4	

# **Labor & Material Payment Bond**

TO:	Contractor Name
	Contractor City, State
KNOW ALL MEN BY THESE PRESE	NTS
That	(Contractor)
as Principal, and	
	as Surety, are held and firmly bound District, as Obligee, for the use and benefit of claimants as
	Dollars (\$), for the payment
where of Principal and Surety bind the and assigns, jointly and severally, firmly	emselves, their heirs, executors, administrators, successors y by these presents.
Contract with Obligee for	ritten agreement dated20 Entered into a in accordance with ock River Water Reclamation District which Contract is by einafter referred to as "the Contract".

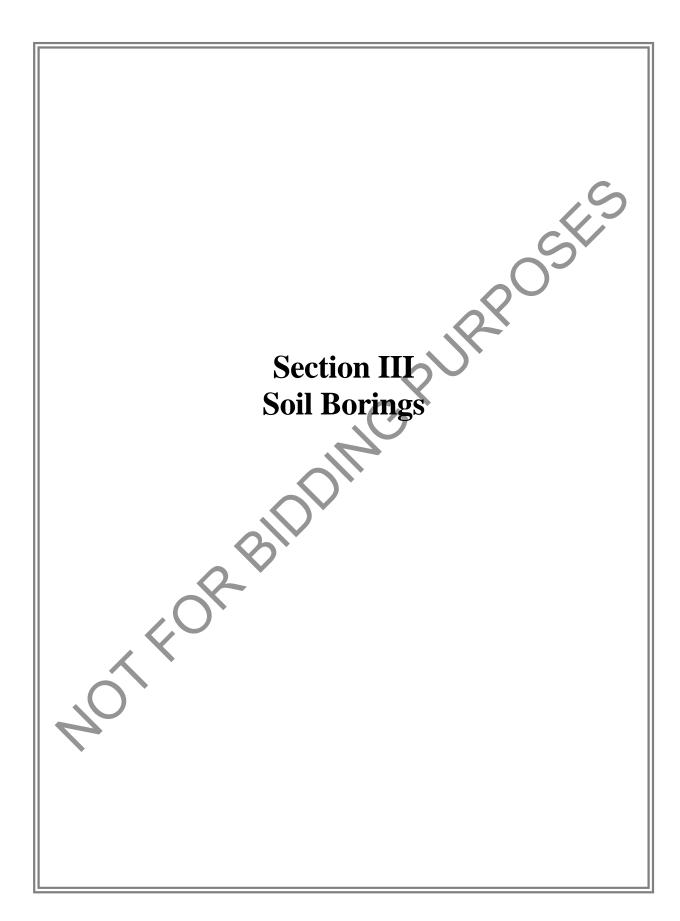
**NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION** is such that if Principal shall promptly pay for all laborers, workers and mechanics engaged in the work under the Contract, and not less than the general prevailing rate of hourly wages of a similar character in the locality in which the work is performed,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

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

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

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

Signed and Sealed thisday of	, 2019.
CONTRACTOR SURETY Contractor Firm Name	
By:Signature	By:Attorney-in-Fact
Title Resident Agent	
ATTEST:  Corporate Secretary (Corporations only)	



Rockford, Illinois



### **TESTING SERVICE CORPORATION**

Local Office:

2235 23<sup>rd</sup> Avenue, Rockford, IL 61104-7334 815.394.2562 • Fax 815.394.2566

March 13, 2019

Mr. Tyler Nelson, P.E. Rock River Water Reclamation District P.O. Box 7480 Rockford, Illinois 61126-7480

Rockford, Illinois

RE:

TSC Job No. L-89,459
Report of Soils Exploration
Charles Street Sanitary Sewer Extension Special Assessment No. 132
Wilcox Road to Eggleston Road

Dear Mr. Nelson:

This letter presents results of the soils exploration prepared for the proposed Charles Street Sanitary Sewer Extension, Special Assessment No. 132 Project. The proposed sewer improvements will extend along Charles Street between Wilcox Road and Eggleston Road in Rockford, Illinois. These geotechnical services have been provided in general accordance with Testing Service Corporation (TSC) Proposal Number 62,351, dated February 14, 2019, and the attached General Conditions incorporated herein by reference, as well as Rock River Water Reclamation District (RRWRD) Purchase Order No. 80614.

Three (3) soil borings have been performed as part of this exploration at the approximate locations determined and marked in the field by RRWRD personnel. Ground surface elevations at the boring locations were also determined and provided to us by the RRWRD. Borings 1-3 were drilled along the north side of Charles Street, between Wilcox Road and Eggleston Road. Reference is also made to the attached Boring Location Plan for the approximate boring locations. The aerial site plan of the project, as provided to us by the RRWRD, was used and modified to develop the Boring Location Plan.

The borings were extended to a depth of approximately 18 feet below existing grade, as specified by the RRWRD. They were drilled and samples tested according to currently recommended American Society for Testing and Materials specifications. Soil sampling was performed at no greater than 5 foot intervals, as required by the RRWRD, in conjunction with the Standard Penetration Test, for which driving resistance to a 2" split-spoon sampler ("N" value in blows per foot) provides an indication of the relative density of granular materials and consistency of cohesive soils. Water level readings were taken during and following completion of drilling operations.

Soil samples retained by TSC were examined in the laboratory to verify field descriptions and to classify them in accordance with the Unified Soil Classification System (USCS). Laboratory testing includes moisture content determinations for all soil types. An estimate of unconfined compressive strength was obtained for native clay soils using a calibrated pocket penetrometer.

A portion of each split spoon soil sample was collected and placed in a separate sealed jar for headspace analysis only. A total of twelve (12) samples were collected from the three soil borings.

Headspace analysis on these samples was performed at the TSC office following completion of the borings. The headspace analysis was conducted using a Mini-RAE photo-ionization detector (PID) equipped with a 10.6 eV probe, similar to the instrument utilized to screen each load of soil for final acceptance at a Clean Construction Demolition Debris (CCDD) facility. The PID was used to check for the presence of volatile organic vapors such as those present in petroleum products and solvents. The headspace analysis was performed by removing the screw lid from each sample jar and inserting the tip of the probe into the jar. The vapors that accumulated in the headspace of the jar were drawn into the probe and ionized by an ultraviolet light source. The concetration of these vapors in parts per million (ppm), relative to a Benzene-equivalent calibration standard, was displayed on the instrument display. The background level (or a 0.0 value noted on the logs) refers to the reading associated with the ambient air located at the test location, which in this case is the TSC office. The PID readings for each soil sample are noted on the attached boring logs in the column labeled "PID"; the readings are in units of parts per million (ppm).

Reference is made to the attached boring logs which indicate subsurface stratigraphy and soil descriptions, results of field and laboratory tests, as well as water level observations. Definitions of descriptive terminology are also included. While strata changes are shown as a definite line on the boring logs, the actual transition between material layers will probably be more gradual.

The borings were drilled in grassy areas beyond/off the north side of Charles Street. Native soils were generally found in the borings below the existing ground surface, extending to the boring termination depths. Inorganic silty, very silty or sandy clays and layers or seams of silty or clayey sands were encountered in the borings. Unconfined compressive strengths of the clay soils varied from 0.25 to 2.0 tons per square foot (tsf), characterizing them as very soft to very tough. The "loamy" sands were found to be very loose to firm, as typified by Standard Penetration Test (SPT) "N" values varying from 0 (or Weight of Hammer (WOH)) to 10 blows per foot (bpf).

Boring 1 was "dry" during drilling operations. Groundwater was encountered during drilling operations in Borings 2 and 3 at depths of 14.0 feet and 13.0 feet below existing grade, respectively. Upon completion of drilling operations, and prior to backfilling the boreholes, free water was measured in B-1 at a depth of 18.0 feet, in B-2 at a depth of 11.0 feet and in B-3 at a depth of 12.0 feet.

Although detailed information regarding the depth of the sewers was not provided to us at this time, it is anticipated that the excavations for the sewers will generally encounter layers of very soft to very tough clays and very loose to firm silty or clayey sands. While these soils sometimes may be considered stable in a confined state, they also may appear or become unstable when exposed by excavations. If the trench bottoms are considered unstable, or if very soft to stiff clays or very loose to loose "loamy" sands are found, additional granular bedding - on the order of 12 to 24 inches - may be used in the bottom of the sewer excavations. This should provide a stable surface for pipe support.

The soils observed in the borings do not appear to be well-suited for use as backfill material. The inorganic, moist to very moist silty, very silty or sandy clays found in the borings may become unstable under vibratory compaction. Clay backfill is not recommended below settlement sensitive structures, pavements or other features. Also, "loamy" sands containing a significant amount of clay and/or silt may also become unstable under vibratory compaction, particularly if they are or become significantly wet of the optimum moisture content for compaction. Silty or clayey sands were encountered in the borings at varying depth intervals. Presently, the silty or clayey sands encountered in the borings were very moist to wet, and it appears that they are generally above their optimum moisture contents for compaction.

Protective measures for worker safety and loss-of-ground in surrounding properties should include the use of safety trench boxes, sheeting and bracing, or other appropriate methods. In this regard, the Contractor must be responsible for meeting OSHA requirements, local regulations and/or project specifications with respect to the safety of his workforce.

As previously noted in this report, headspace analysis was performed on each soil sample obtained from the borings using a Mini-RAE photo-ionization detector (PID). The vapors that accumulated in the headspace of each sample jar were measured with the PID probe. The concentration of these vapors in parts per million (ppm), relative to a Benzene-equivalent calibration standard, was displayed on the instrument display; the results are shown on the attached boring logs in the column headed PID. All samples were analyzed to be at or below the background level. The background level (or a 0.0 value noted on the boring logs) refers to the reading associated with the ambient air located at the test location, which in this case is the TSC office.

The analysis and recommendations submitted in this report are based on data obtained from the three (3) soil borings performed at the approximate locations indicated on the Boring Location Plan. This report does not reflect any variations which may occur between or beyond these borings, the nature and extent of which may not become evident until during the course of construction. If variations are then identified, recommendations contained in this report should be re-evaluated after performing onsite observations.

We are available to review this report with you at your convenience.

Respectfully Submitted,

TESTING SERVICE CORPORATION

Prepared by:

Steven R. Koester, P.E.

Vice President

Jeffrey L. Martin, P.E. Rockford Branch Manager Illinois No. 062-047621

JLM/rb

Enc: Boring Logs (3)

Boring Location Plan

**Boring Legend** 

**Unified Classification Chart** 

**General Conditions** 

Mr. Tyler Nelson, P.E. CC:

Rock River Water Reclamation District Via e-mail: tnelson@rrwrd.illinois.gov

ST. F. O. P. BIDDING PURPOSES

		PROJECT	JECT Charles Street Sanitary Sewer Extension, S.A. #132, Rockford, IL								
		CLIENT	Roc	k Riv	er R	eclan	nation	Distric	ct, Roc	kford,	Illinois
		BORING	1_			•	E STAR	TED _	3-7-1	9	DATE COMPLETED 3-7-19 JOB L-89,459
		GROUND S	SURF	ACE	ELEV	ATION <b>7.0</b>	S				WATER LEVEL OBSERVATIONS  ▼ WHILE DRILLING
		END OF BO		_	83						✓ AT END OF BORING 18.0 '
		H									▼ 24 HOURS
	0	LENGTH	SAM		N	WC	Qu	PID	DEPTH	ELEV.	SOIL DESCRIPTIONS
	0		1	SS	4	21.5	0.75*	0.0			Stiff rusty brown and light gray silty CLAY, very moist (CL)
IN FEET	- - - 10—	X	2	SS	8	22.3	1.0*	0.0	8.0	849.0	
BELOW SURFACE	-						8		13.0	844.0	Stiff grayish-brown silty CLAY, trace sand and fine gravel, very moist (CL)
DISTANCE	- 15— -		3	SS	3	12.7	0.5* 1.25*	0.0			Soft to tough light brown sandy CLAY, trace gravel with clayey sand seams, very moist (CL-ML/SC)
SC_EOB 88459.GPJ TSC_ALL.GDT 3/12/19	20-										* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
_EOB 89459.	25—			( <u>s.</u>		Division	lines betw	veen dep	osits repre	esent	End of Boring at 18.5'
מ	DRILL	RIG NO. 3	34			approxir in-situ t	nate boun he transiti	uanes pe on may h	e oradual	i types;	10 Notice 4 10 1000 1000 1000 1000 1000 1000 100

		PROJECT	Cha	arles	Stree	t San	itary S	ewer	Extens	ion, S.	A. #132, Rockford, IL	FCO
		CLIENT	Roo	k Ri	ver R	eclan	nation	Distri	ct, Roc	kford,	Illinois	
		BORING	2			DAT	E STAR	TED _	3-7-1	9	DATE COMPLETED	JOB <b>L-89,459</b>
		0001110	01105			ATION	IS					EL OBSERVATIONS 14.0 '
		GROUND S				8.6 0.6					·	11.0 '
		Z,		-							▼ 24 HOURS	
	2	LENGTH	SAN NO.	IPLE TYPE	N	wc	Qu	PID	DEPTH	ELEV.	SOIL DESCRIPTIONS	S
	0								2.5	955.4	Light brown silty CLAY little to very moist (CL)	
	5— -		A 1 B	SS	3	15.7 21.0	0.75*	0.0	3.5 4.0	855.1 854.6	Very loose brown clayey SAND (SC)  Stiff brown silty CLAY, trace fin moist (CL)	
W SURFACE IN FEET	10— -		2	SS	8	23.0	1.25*	0.0	8.0	<b>8</b> 50.6	Tough grayish-brown silty CLA\	Y, trace sand
BELOW	_					2			13.0	845.6	Loose light brown and rusty bro	wn clayey
NCE	-		A	SS	5	24.0	0.5*	0.0	14.0	844.6	SILT to soft very silty CLAY, ve wet (ML/CL-ML)	Ty moist to
DISTANCE	15—		3 B			17.5					Loose light brown silty SAND, v	vet (SM)
	_		4	ss	10	20.3		0.0	16.0	842.6	Firm light brown silty SAND, tra gravel, wet (SM)	ce to little
EOB 89459.GPJ TSC_ALL.GDT 3/12/19	20-										* Approximate unconfined con strength based on measuren calibrated pocket penetrome	nents with a
39459.GI	-											
EOB.	25—								osits repre		End of Boring at 18.0'	
!	DRILL F	RIG NO3	34			approxir	nate boun	daries be	etween so e gradual	I types;	End of boiling at 16.0	

		PROJECT	Cha	arles	Stree	t San	itary S	ewer	Extens	ion, S.	A. #132, Rockford, IL			
		CLIENT	Roc	k Ri	ver R	eclan	nation	Distric	ct, Roc	kford,	Illinois			<b>5</b> 6
		BORING	3			DAT	E STAR	TED _	3-7-1	9	DATE COMPLETED	<b>3-7-19</b>	ЮВ	L-89,459
		CDOUND	CLIDE	<b>AO</b> E		ATION <b>0.0</b>	S				<b>₩</b> WHILE DRILLING	WATER LEVE	L OBSEF 13.0 '	RVATIONS
		GROUND S				2.0		-			✓ AT END OF BORING		12.0 '	
				-							▼ 24 HOURS			
		ENGTH	SAM	IPLE TYPE	N	wc	Qu	PID	DEPTH	ELEV.	SOIL	DESCRIPTIONS	8	
OW SURFACE IN FEET	0—		1	SS	9	18.8	0.5* 1.63 2.0*	0.0	8.0	852.0	Soft rusty brown a trace sand, very m  Tough to very toug brown silty CLAY,	and light gray s noist (CL)	silty CL/	,
NCE BELOW	-		A 3	SS (	WOH	20.7			13.0	847.0	Very loose light br gravel, wet (SM)	own silty SAN	D, trace	Э
DISTANCE	15—		В	<b>(</b>		39.5	0.25*	0.0	14.5	845.5 844.0	Very soft light brov silty CLAY, very m	wn and pinkish noist (CL)	n-brown	very
	=		4	SS	11	12.6	1.5*	0.0	16.0	044.0	Tough light brown moist to very mois	sandy CLAY, t (CL-ML)	little gr	avel,
TSC_EOB 89459,GPJ TSC_ALL.GDT 3/12/19	20-										* Approximate ur strength based calibrated pock	on measurem	ents wi	e th a
8 BOH	25			}		Division	lines betw	een den	osits repre	esent	Ford of Doubles of 4	0.01		
TSC_E		RIG NO. 3	34			approxir	nate boun he transitio	daries be	etween so	I types;	End of Boring at 1	o.U ,		





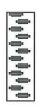
# **TESTING SERVICE CORPORATION**

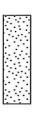
### LEGEND FOR BORING LOGS

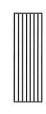
















FILL

TOPSOIL

PEAT

GRAVEL

SAND

SILT

CLAY

**DOLOMITE** 

# SAMPLE TYPE

SS = Split Spoon

ST = Thin-Walled Tube

A = Auger

MC = Macro-Core (Geo Probe)

# WATER LEVELS:

While Drilling

Z End of Boring

24 Hours

# FIELD AND LABORATORY TEST DATA

N = Standard Penetration Resistance in Blows per Foot

WC = In-Situ Water Content

Qu = Unconfined Compressive Strength in Tons per Square Foot

Pocket Penetrometer Measurement: Maximum Reading = 4.5 tsf

 $\gamma_{DRY}$  = Dry Unit Weight in Pounds per Cubic Foot

# SOIL DESCRIPTION

MATERIAL
BOULDER
COBBLE
Coarse GRAVEL
Small GRAVEL
Coarse SAND
Medium SAND
Fine SAND
SILT and CLAY

### PARTICLE SIZE RANGE

Over 12 inches
12 inches to 3 inches
13 inches to 3/4 inch
3/4 inch to No. 4 Sieve
No. 4 Sieve to No. 10 Sieve
No. 10 Sieve to No. 40 Sieve
No. 40 Sieve to No. 200 Sieve
Passing No. 200 Sieve

### **COHESIVE SOILS**

OUTILO	IVE COILC
CONSISTENCY	Qu (tsf)
Very Soft	Less than 0.3
Soft	0.3 to 0.6
Stiff	0.6 to 1.0
Tough	1.0 to 2.0
Very Tough	2.0 to 4.0
Hard	4.0 and over

# **COHESIONLESS SOILS**

COLICIONALES	JOUILO
RELATIVE DENSITY	N (bpf)
Very Loose	0 - 4
Loose	4 - 10
Firm	10 - 30
Dense	30 - 50
Very Dense	50 and over

### MODIFYING TERM

Trace	
Little	
Some	

# PERCENT BY WEIGHT

LIVOLIVI DI
1 - 10
10 - 20
20 - 35

# Testing Service Corporation Unified Classification Chart

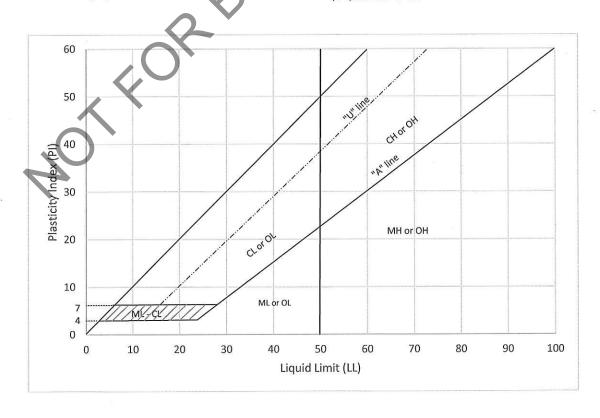


	CRI	TERIA FOR ASSIGNING GROUP S	YMBOLS AND	S	OIL CLASSIFICATION	
	O	GROUP NAMES USING LABORATO	DRY TEST °	Group Symbol	GROUP NAME <sup>b</sup>	
	GRAVELS	CLEAN GRAVELS less than 5% fines <sup>c</sup>	<sup>c</sup> <sub>u</sub> ≥ 4 and 1 ≤ <sup>c</sup> <sub>c</sub> ≤ 3 °	GW	Well-graded gravel <sup>f</sup>	
COARSE - GRAINED SOILS more than 50% retained on No. 200 sieve	More than 50% of	less than 5% tines	<sup>c</sup> <sub>u</sub> < 4 and/or 1 > <sup>c</sup> <sub>c</sub> > 3 <sup>e</sup>	GP	Poorly-graded gravel f	
S E	coarse fraction retained on No. 4	GRAVELS WITH FINES	Fines classify as ML or MH	GM	Silty gravel f, g, h	
AINEL tained ve	sieve	more than 12% fines <sup>c</sup>	Fines classify as CL or CH	GC	Clayey gravel <sup>f, g, h</sup>	
3% retair sieve	SANDS	CLEAN SANDS less than 5% fines d	<sup>C</sup> <sub>u</sub> ≥ 6 and 1 ≤ <sup>C</sup> <sub>C</sub> ≤ 3 <sup>e</sup>	sw	Well-graded sand <sup>1</sup>	
Jan 50	50% or more of coarse fraction passes No. 4 sieve	less than 5% tines	<sup>c</sup> <sub>u</sub> < 6 and/or 1 > <sup>c</sup> <sub>c</sub> > 3 °	SP	Poorly-graded sand I	
ore t		SANDS WITH FINES	Fines classify as ML or MH	SM	Silty sand g, h, f	
E		more than 12% fines d	Fines classify as CL or CH	sc	Clayey sand <sup>g, h, f</sup>	
9	SILTS & CLAYS		PI > 7 or plots on or above "A" line j	CL	Lean clay <sup>k, l, m</sup>	
No. 200 sieve	Liquid limit less than	Inorganic	PI < 4 or plots below "A" line j	ML	Silt <sup>k, l, m</sup>	
S S	50%	Organic	Liquid limit – oven dried < 0.75	OL	Organic clay <sup>k, l, m, n</sup> Organic silt <sup>k, l, m, o</sup>	
d the			Liquid limit - not dried	2	Organic sit	
passe	SILTS & CLAYS		PI plots on or above "A" line	СН	Fat clay <sup>k, l, m</sup>	
more	Liquid limit 50% or	Inorganic	PI plots below "A" line	мн	Elastic silt k, l, m	
50% or more passed the	more	Organic	Liquid limit – oven dried Liquid limit – not dried	ОН	Organic clay <sup>k, l, m, p</sup> Organic silt <sup>k, l, m, q</sup>	
Hid	phly organic soils	Primarily organic m	natter, dark in color, and organic odor	PT	Peat	

- Based on the material passing the 3-inch (75-mm) sieve.
   If field sample contained cobbles and/or boulders, add "with cobbles and/or boulders" to group name
   Gravels with 5 to 12% fines required dual symbols
- - GW-GM well graded gravel with silt
- GW-GM well graded gravel with clay
  GP-GM poorly graded gravel with silt
  GP-GC poorly graded gravel with silt
  GP-GC poorly graded gravel with clay
  d. Sands with 5 to 12% fines require dual symbols SW-SM well graded sand with silt SW-SC well graded sand with clay
  - SP-SM poorly graded sand with silt SP-SC poorly graded sand with clay
- e.  $^{\text{C}}_{\text{u}} = D_{60}/D_{10}$   $^{\text{C}}_{\text{C}} = \frac{(D_{30})^2}{D_{10} \times D_{60}}$

- f. If soils contains ≥ 15% sand, add "with sand" to group name. g. If fines classify as CL-ML, use dual symbol GC-GM, SC-SM h. If fines are organic, add "with organic fines" to group name
- If soils contains ≥ 15% gravel, add "with gravel" to group name
- J. If Atterberg Limits plot in halched area, soil is a CL ML, silty clay k. If soils contains 15 to 29% plus No. 200, add "with sand" or "with gravel" whichever is predominant
- I. If soil contains ≥ 30% plus No. 200, predominantly sand, add "sandy" to
- group name. m. If soils contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name
- n. PI ≥ 4 and plots on or above "A" line
  o. PI ≥ 4 and plots below "A" line
  p. PI plots on or above "A" line

- q. PI plots below "A" line





# **GENERAL CONDITIONS**

# **Geotechnical and Construction Services**

### TESTING SERVICE CORPORATION

- 1. PARTIES AND SCOPE OF WORK: If Client is ordering the services on behalf of another, Client represents and warrants that Client is the duly authorized agent of said party for the purpose of ordering and directing said services, and in such case the term "Client" shall also include the principal for whom the services are being performed. Prices quoted and charged by TSC for its services are predicated on the conditions and the allocations of risks and obligations expressed in these General Conditions. Unless otherwise stated in writing, Client assumes sole responsibility for determining whether the quantity and the nature of the services ordered by Client are adequate and sufficient for Client's intended purpose. Unless otherwise expressly assumed in writing, TSC's services are provided exclusively for client. TSC shall have no duty or obligation other than those duties and obligations expressly set forth in this Agreement. TSC shall have no duty to any third party. Client shall communicate these General Conditions to each and every party to whom the Client transmits any report prepared by TSC, Ordering services from TSC shall constitute acceptance of TSC's proposal and these General Conditions
- 2. SCHEDULING OF SERVICES: The services set forth in this Agreement will be accomplished in a timely and workmanlike manner. If TSC is required to delay any part of its services to accommodate the requests or requirements of Client, regulatory agencies, or third parties, or due to any cause beyond its reasonable control, Client agrees to pay such additional charges, if any, as may be applicable.
- 3. ACCESS TO SITE: TSC shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as a result of its services or the use of its equipment; however, TSC has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires TSC to restore the site to its former condition, TSC will, upon written request, perform such additional work as is necessary to do so and Client agrees to pay to TSC the cost thereof plus TSC's normal markup for overhead and profit.
- 4. CLIENT'S DUTY TO NOTIFY ENGINEER: Client represents and warrants that Client has advised TSC of any known or suspected hazardous materials, utility lines and underground structures at any site at which TSC is to perform services under this Agreement. Unless otherwise agreed in writing, TSC's responsibility with respect to underground utility locations is to contact the Illinois Joint Utility Locating Information for Excavators for the location of public, but not private, utilities.
- 5. DISCOVERY OF POLLUTANTS: TSC's services shall not include investigation for hazardous materials as defined by the Resource Conservation Recovery Act, 42 U.S.C.§ 6901, et, seq., as amended ("RCRA") or by any state or Federal statute or regulation. In the event that hazardous materials are discovered and identified by TSC, TSC's sole duty shall be to notify Client.
- 6. MONITORING: If this Agreement includes testing construction materials or observing any aspect of construction of improvements, Client's construction personnel will verify that the pad is properly located and sized to meet Client's projected building loads. Client shall cause all tests and inspections of the site, materials and work to be timely and properly performed in accordance with the plans, specifications, contract documents, and TSC's recommendations. No claims for loss, damage or injury shall be brought against TSC unless all tests and inspections have been so performed and unlessTSC's recommendations have been followed.

TSC's services shall not include determining or implementing the means, methods, techniques or procedures of work done by the contractor(s) being monitored or whose work is being tested. TSC's services shall not include the authority to accept or reject work or to in any manner supervise the work of any contractor. TSC's services or failure to

perform same shall not in any way operate or excuse any contractor from the performance of its work in accordance with its contract. "Contractor" as used herein shall include subcontractors, suppliers, architects, engineers and construction managers.

Information obtained from borings, observations and analyses of sample materials shall be reported in formats considered appropriate by TSC unless directed otherwise by Client. Such information is considered evidence, but any inference or conclusion based thereon is, necessarily, an opinion also based on engineering judgment and shall not be construed as a representation of fact. Subsurface conditions may not be uniform throughout an entire site and ground water levels may fluctuate due to climatic and other variations. Construction materials may vary from the samples taken. Unless otherwise agreed in writing, the procedures employed by TSC are not designed to detect intentional concealment or misrepresentation of facts by others.

- 7. DOCUMENTS AND SAMPLES: Client is granted an exclusive license to use findings and reports prepared and issued by TSC and any sub-consultants pursuant to this Agreement for the purpose set forth in TSC's proposal provided that TSC has received payment in full for its services. TSC and, if applicable, its sub-consultant, retain all copyright and ownership interests in the reports boring logs, maps, field data, field notes, laboratory test data and similar documents, and the ownership and freedom to use all data generated by it for any purpose. Unless otherwise agreed in writing, test specimens or samples will be disposed immediately upon completion of the test. All drilling samples or specimens will be disposed sixty (60) days after submission of TSC's report.
- 8. TERMINATION: TSC's obligation to provide services may be terminated by either party upon (7) seven days prior written notice. In the event of termination of TSC's services, TSC shall be compensated by Glent for all services performed up to and including the termination date, including reimbursable expenses. The terms and conditions of these General Conditions shall survive the termination of TSC's obligation to provide services.
- 9. PAYMENT: Client shall be invoiced periodically for services performed. Client agrees to pay each invoice within thirty (30) days of its receipt. Client further agrees to pay interest on all amounts invoiced and not paid or objected to in writing for valid cause within sixty (60) days at the rate of twelve (12%) per annum (or the maximum interest rate permitted by applicable law, whichever is the lesser) until paid and TSC's costs of collection of such accounts, including court costs and reasonable attorney's fees.
- 10. WARRANTY: TSC's professional services will be performed, its findings obtained and its reports prepared in accordance with these General Conditions and with generally accepted principles and practices. In performing its professional services, TSC will use that degree of care and skill ordinarily exercised under similar circumstances by members of its profession. In performing physical work in pursuit of its professional services, TSC will use that degree of care and skill ordinarily used under similar circumstances. This warranty is in lieu of all other warranties or representations, either express or implied. Statements made in TSC reports are opinions based upon engineering judgment and are not to be construed as representations of fact.

Should TSC or any of its employees be found to have been negligent in performing professional services or to have made and breached any express or implied warranty, representation or contract, Client, all parties claiming through Client and all parties claiming to have in any way relied upon TSC's services or work agree that the maximum aggregate amount of damages for which TSC, its officers, employees and agents shall be liable is limited to \$50,000 or the total amount of the fee paid to TSC for its services performed with respect to the project, whichever amount is greater.

In the event Client is unwilling or unable to limit the damages for which TSC may be liable in accordance with the provisions set forth in the preceding paragraph, upon written request of Client received within five days of Client's acceptance of SC's proposal together with payment of an additional fee in the amount of 5% of TSC's estimated cost for its services (to be adjusted to 5% of the amount actually billed by TSC for its services on the project at time of completion), the limit on damages shall be increased to \$500,000 or the amount of TSC's fee, whichever is the greater. This charge is not to be construed as being a charge for insurance of any type, but is increased consideration for the exposure to an award of greater damages.

- 11. INDEMNITY: Subject to the provisions set forth herein, TSC and Client hereby agree to indemnify and hold harmless each other and their respective shareholders, directors, officers, partners, employees, agents, subsidiaries and division (and each of their heirs, successors, and assigns) from any and all claims, demands, liabilities, suits, causes of action, judgments, costs and expenses, including reasonable ttorneys' fees, arising, or allegedly arising, from personal injury, including death, property damage, including loss of use hereof, due in any manner to the negligence of either of them or their agents or employees or independent contractors. In the event both TSC and Client are found to be negligent or at fault, then any liability shall be apportioned between them pursuant to their pro rata share of negligence or fault. TSC and Client further agree that their liability to any third party shall, to the extent permitted by law, be several and not joint. The liability of TSC under this provision shall not exceed the policy limits of insurance carried by TSC. Neither TSC nor Client shall be bound under this indemnity agreement to liability determined in a proceeding in which it did not participate represented by its own independent counsel. The indemnities provided hereunder shall not terminate upon the termination or expiration of this Agreement, but may be modified to the extent of any waiver of subrogation agreed to by TSC and paid for by Client.
- 12. SUBPOENAS: TSC's employees shall not be retained as expert witnesses except by separate, written agreement. Client agrees to pay TSC pursuant to TSC's then current fee schedule for any TSC employee(s) subpoenaed by any party as an occurrence witness as a result of TSC's services.
- 13. OTHER AGREEMENTS: TSC shall not be bound by any provision or agreement (i) requiring or providing for arbitration of disputes or controversies arising out of this Agreement or its performance, (ii) wherein TSC waives any rights to a mechanics lien or surety bond claim; (iii) that conditions TSC's right to receive payment for its services upon payment to Client by any third party or (iv) that requires TSC to indemnify any party beyond its own negligence These General Conditions are notice, where required, that TSC shall file a lien whenever necessary to collect past due amounts. This Agreement contains the entire understanding between the parties. Unless expressly accepted by TSC in writing prior to delivery of TSC's services, Client shall not add any conditions or impose conditions which are in conflict with those contained herein, and no such additional or conflicting terms shall be binding upon TSC. The unenforceability or invalidity of any provision or provisions shall not render any other provision or provisions unenforceable or invalid. This Agreement shall be construed and enforced in accordance with the laws of the State of Illinois. In the event of a dispute arising out of or relating to the performance of this Agreement, the breach thereof or TSC's services, the parties agree to try in good faith to settle the dispute by mediation under the Construction Industry Mediation Rules of the American Arbitration Association as a condition precedent to filing any demand for arbitration, or any petition or complaint with any court. Paragraph headings are for convenience only and shall not be construed as limiting the meaning of the provisions contained in these General Conditions.

# Section IV General Provisions & Technical Spece (Incorporated by Reference)