

**Rock River Water Reclamation District
Rockford, Illinois**

Bidding Requirements and Contract Forms

for

2020-2021 Sanitary Sewer System Lining

Capital Project No. 2137

Rock River Water Reclamation District Rockford, Illinois

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

for

2020-2021 Sanitary Sewer System Lining

Capital Project No. 2137

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Section I
Bidding Requirements

Article 1 — Notice to Bidders

The Rock River Water Reclamation District (District) will receive signed and sealed bids for Capital Project No. 2137, 2020-2021 Sanitary Sewer System Lining, at the District office located at 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Thursday, September 17, 2020 at which time and place responsive / responsible bids will be publicly opened and read aloud.

Capital Project No. 2137, 2020-2021 Sanitary Sewer System Lining shall include all labor, materials, equipment and supervision to line existing sanitary sewers with cured-in-place pipe (CIPP). This project consists of approximately 88,000 LF of 8" diameter CIPP and 600 LF of 9" diameter CIPP, existing service reinstatements, and all other appurtenances as indicated on the plans and in the specifications.

Bidder's attention is called to Article 2 – Instructions to Bidders, Part 2.3, Bidder Prequalification. **All bidders must be pre-qualified to bid this project.**

All lining, televising, testing, and restoration shall be completed by July 31, 2021. Liquidated damages shall be \$300.00 per calendar day.

Bid documents may be obtained at a cost of \$50.00 per set (non-refundable) by contacting the 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 five percent (5%) of the total bid price. This amount is a guarantee that, if the Proposal is accepted, a Contract will be entered into and its performance properly secured.

Prospective Bidders shall submit pre-qualification information for approval prior to bid opening or bids will be rejected. Pre-qualification submittals must be received by 2:00 p.m., Friday, August 28, 2020. The District will review the submittals and will notify each bidder on or before Monday, September 7, 2020, if they have met or failed to meet the prequalification requirement.

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

Dated this 13th day of August, 2020.


BY: Timothy S. Hanson, Executive Director

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. Public Act 100-1177 requires the Bidder to comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on District projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. The Bidder is responsible for verifying current information at the State's website.
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.

4. 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.
5. The Contractor for this project shall comply with the Occupational Safety and Health Act.
6. The Contractor for this project shall comply with the Federal Drug-Free Workplace Act.
7. 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
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.

2.3 Bidder Prequalification

Prospective bidders shall submit pre-qualification information for approval prior to bid opening or bids will be rejected as unqualified. Prequalification submittals shall be presented to Mr. Christopher T. Baer, PE, Director of Engineering at cbaer@rrwr.illinois.gov or by mail to P.O. Box 7480 Rockford, Illinois, 61126-7480.

Only bids from prequalified manufacturers and installers using prequalified products and methods will be opened and read. Bids submitted on products or from manufacturers/installers that have not been prequalified will be returned unopened. Bid Proposals shall be clearly labeled on the bid envelope with the contractor's name.

Bidders that have previously prequalified for completing sewer lining work for the District will be considered pre-qualified as long as they are using the same methods and materials as previously specified and as specified herein. Pre-qualification will be valid for a period of seven (7) years from the last bid submitted by prequalified contractors.

The following contractors are pre-qualified to bid this project:

Contractor	CIPP Product
Insituform Technologies	Insituform
Kenny Construction	Inliner USA
Visu-Sewer	National Liner
Michels Pipe Services	Premier-Pipe USA
Terra Engineering & Construction Corporation	Liner Products / Interplastic Polyester Resin
Hoerr Construction, Inc.	Interplastics COR72-AT-470HT Polyester Resin and Applied Felts Tube

In order to meet prequalification requirements for bidding, the product manufacturer and the contractor must satisfactorily demonstrate to the District the following:

- a. For the manufacturers product / installation method to be considered as acceptable, a minimum of 250,000 feet or 1,000 line sections of successful wastewater collection system installation in the USA must be documented. In addition, the product shall have been in service within the wastewater collection system for a minimum of two (2) years. The product must be shown to comply with the requirements of the detailed specifications.
- b. Submittal of District approved Third Party test data supporting the following product performance requirements. Product samples used for testing shall be similar to those proposed for installation. Test samples shall be prepared so as to simulate installation methods and trauma of the product.
 - Chemical resistance – Test shall be conducted in accordance with ASTM F 1216, and meet the minimum guidelines listed therein.
 - Long-term properties – Tests to confirm 50-year design values shall be conducted in accordance with ASTM D2990. AS an alternative, third party testing of a 10,000 hour external loading test, conducted in a wet environment to simulate field conditions, can be used to verify long-term design values.
 - Flow characteristics – The in-service product shall provide full flow capacity equal to at least 100% of the host pipe's original capacity.

- External hydrostatic pressure testing – Testing of external hydrostatic loading capacity of at least ten (10) restrained pipe samples to verify design techniques.
- Contractor / Manufacturer shall demonstrate structural properties meet or exceed the requirements listed below by providing test results from an independent laboratory for three (3) recent lining projects. A minimum of twelve (12) test results must be submitted.

STRUCTURAL PROPERTIES

Property	Minimum Value	ASTM Test Method
Flexural Strength	4,500 PSI	D790
Flexural Modulus	350,000 PSI	D790

- c. For a manufacturer to be considered acceptable, the manufacturer must have provided continuously for at least three (3) years, the specified materials for an acceptable product (as defined above). The manufacturer must be able to demonstrate sufficient in-house engineering support and manufacturing quality control.
- d. For a contractor to be considered acceptable, the contractor must have had at least two (2) years active experience in a commercial installation of the product and must have successfully installed at least 100,000 feet of the product in wastewater collection system installations. In addition, the contractor must certify that the installation of the product will be done in accordance with manufacturer's recommended procedures.

The contractor shall provide a list of personnel working on this project, including previous project experience of the Foreman / Job Superintendent and Operator responsible for reinstating sewer services.

- e. The manufacturer and/or contractor shall submit a copy of the license or certificate verifying the manufacturer's or licensor's approval of the installer.

The final decision to accept or reject the product/manufacturer/installer lies solely with the District.

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 locating 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

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.

Bidders 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

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 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 lined within the past five (5) years of similar size and scope 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

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 lining contracts within the past five (5) years of similar size and scope 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

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 2020-2021 Sanitary Sewer System Lining, Capital Project No. 2137.
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

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

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

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

- a. Unless otherwise provided in paragraph "c" of this section, 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. **Alphabetical Rating:** For purposes of this Request for Bids, "insurer" shall mean any surety, insurance carrier, or other organization which proposes to provide an insurance policy or bond for the Contractor. No insurer or surety rated lower than "A-, Excellent" in the current *Best's Key Rating Guide* shall be acceptable to the District.
2. **Financial Size Rating:** Provided an insurer's alphabetical rating is satisfactory, the District will examine said insurer's financial size rating.
 - a. If Best classifies the insurer XII or larger, said insurer shall be acceptable to the District.
 - b. If Best 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

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 exemption number is E9992-3696-06. The bidder shall include all applicable taxes in his bid price.

Not to be used for bidding purposes

Article 3 – Detailed Specifications

1 General

It is the intent of these specifications to provide the description necessary to allow qualified bidders to submit formal proposals to the Rock River Water Reclamation District (District) for Capital Project No. 2137, Sanitary Sewer System Lining 2020-2021. These *Detailed Specifications* are concerned with the rehabilitation of sanitary sewers by lining with a resin-impregnated flexible tube heated to cure the thermosetting resin/felt tube composite, formed to the existing sanitary sewer.

Throughout these specifications, the terms “Owner,” “District” and “Engineer” shall be synonymous.

The Illinois Department of Transportation (IDOT) *Standard Specifications for Road and Bridge Construction* referenced in this specification shall be current edition.

The Contractor shall be responsible for any damages caused by his operations to existing structures above or below the ground as described under *G.C. 12:1, Suits at Law*, of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

The Contractor shall notify all utility companies, as well as JULIE (800-892-0123), at least forty-eight (48) hours prior to any construction. The Contractor shall notify IDOT, the City of Rockford Department of Public Works, City of Loves Park, Village of Machesney Park, Rockford Township, and the District seventy-two (72) hours before beginning work.

The Contractor shall be responsible for maintaining the current level of utility and other services to any properties affected by construction throughout the course of this project.

The Contractor shall be responsible for repair, relocation and reconstruction of all utilities, power poles, signs, lights, signals, underground utilities, etc., conflicting with the proposed construction whether temporary or permanent in accordance with *G.R. 9.1* of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*. Contractor shall be responsible for support and protection of any and all of these items where construction passes close by.

The Contractor shall provide access to the residences and/or businesses, schools, etc., at all times (i.e., drives, roadways, ramps must remain open or must be provided) for the duration of this project.

Suppliers shall be deemed to impliedly warrant that their products and all component materials incorporated into them are suitable and fit for the intended use of such products and shall be free from defects in material, workmanship or design, such warranty to run to the benefit of the District. The foregoing applies whether the products or their component materials are specified in the contract documents or are of supplier's design.

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

2 Scope of Work

2.1 General

This section 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. The materials and workmanship provided for this project shall meet or exceed the *Detailed Specifications* found in this section and the technical specifications referenced below. In the case of contradictions between these *Detailed Specifications* and the referenced technical specifications, these *Detailed Specifications* shall govern. Applicable technical specifications are current editions of the following:

1. *Standard Specifications for Water and Sewer Main Construction in Illinois*
2. *General Provisions and Technical Specifications for Sanitary Sewer Construction*, by the Rock River Water Reclamation District.
3. *Standard Specifications for Road and Bridge Construction*, Illinois Department of Transportation.
4. *American Society for Testing and Materials (ASTM)*:
 - A. *ASTM D 543* Test Method for Resistance of Plastics to Chemical Reagents
 - B. *ASTM D 638* Test Method for Tensile Properties of Plastics
 - C. *ASTM D 790* Test Method for Tensile Properties of Non-reinforced and Reinforced Plastics and Electrical Insulating Materials
 - D. *ASTM F 1216* Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube
 - E. *ASTM F 1743* Standard Practice for Rehabilitation of Existing Pipelines and Conduits by Pulled-in-Place Installation of Cured-in-Place Resin Pipe

Bidders shall provide the District with a copy of all the applicable specifications listed for the materials to be used.

The Contractor shall be responsible for all site investigations, all necessary permits and fees, mobilization, access procurement, flow control (bypass pumping), water acquisition, site preparation, traffic control, pipe lining with a cured-in-place lining system, reinstatement of sanitary services, complete restoration, and all other appurtenances required for completing the project in accordance with the specifications.

The Contractor shall comply with all OSHA and manufacturer's safety requirements. Particular attention is drawn to those safety requirements involving work operations within confined spaces and with hot water. The District assumes no responsibility for enforcement of safety standards.

Excavated material or material removed from sewers shall not be stored or cast upon the pavement. All materials cleaned from sewers shall be transported to and disposed of at an approved dumping area. Work areas shall be cleaned at the end of each day by sweeping, washing or other approved methods.

The Contractor shall comply with all permit, notification, safety and traffic control requirements as specified elsewhere herein.

The Contractor shall provide the District with a construction schedule prior to performing any work. Any work that is performed by the Contractor without the District's permission or not in the presence of a District inspector may, at the District's sole discretion, be rejected.

If required, all roadway removal and restoration shall be inspected and approved by the governing municipality.

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 promptly corrected by the Contractor without cost to the District and prior to final payment.

2.2 Existing Sewer Video Inspection Records

Sewer television inspection logs and video recordings are available for Contractor's use and inspection at the District Engineering Department, 3501 Kishwaukee St., Rockford, IL, Monday through Friday from 8:00 am to 3:30 p.m. A computer and monitor will be made available for viewing video recordings. The television reports and video recordings indicate the condition of the sewer at the time of the inspection and are no guarantee of the conditions that may be encountered at the time of construction. 2020-2021: Due to the COVID-19, Contractor's wishing to view existing inspection videos must schedule visits with the District forty-eight (48) hours in advance. While on District property, Contractor must adhere to current District COVID-19 protocols.

2.3 Main Line Repairs (by Others)

The District will be completing a collection systems repair project in conjunction with this sewer lining project. Items requiring repairs prior to lining are identified in *Section III, Lining List*. **No work shall be performed on these items until the repairs have been completed, and the District grants written permission to proceed.** The repairs are tentatively scheduled for completion by October 31, 2020.

Prior to the start of construction, the Contractor shall provide the District with a complete listing of any additional main line repairs the Contractor feels are required prior to lining. If a main line repair is requested by the Contractor a minimum of two (2) weeks advance notice will be required by the District. The District may, at its discretion, have this work performed by a third party.

All main line repairs completed by the District or District's main line repair Contractor shall be televised by the lining Contractor and reviewed for final acceptance prior to pipe lining.

2.4 Required Submittals

1. Construction Schedule.
2. All applicable ASTM specifications for materials to be used.

2.5 Payment – Not Used.

3 Permit Requirements

3.1 General

All work in streets, highways, railroad right-of-way or flood plains shall be subject to the regulations and requirements of the permitting agencies. Should conflicts or contradictions arise between the permit requirements and these specifications, the permits shall govern. Upon completion of work, the Contractor shall restore the area as required by the permitting agency.

The Contractor shall secure and comply with the requirements of any and all permits required for the construction of this project. For any excavation in roadways, a road cut permit will be required from the roadway authority. The Contractor shall provide all insurance, bonds, etc., as required by the necessary permits

Lining items requiring an IDOT Utility Permit are identified in *Section III, Lining List*. The District will prepare and submit the Utility Permit Application upon contract award. Contractor shall comply with all traffic control requirements of the issued permit.

Rockford Township will require a permit to work in Township right-of-way. The Contractor will be responsible for completing the permit application. The Contractor shall provide comply with all traffic control requirements. Contact Barry Palm, Deputy Highway Commissioner, at (815)-962-7313, barrypalm@rockfordtownshipil.gov.

The City of Rockford will issue a blanket right of way permit for all work in the City right-of- way. The Contractor will be responsible for the permit application. Contact Jordan Masemore at (779)-348-7174, Jordan.masemore@rockfordil.gov. The City of Rockford will waive the permit fee for this project.

For work in the City of Loves Park, contact Shannon Messinger at shannonmessinger@loves-park.il.us.

For work in the Village of Machesney Park, contact Chad Hunter, Superintendent of Public Works, (815)-877-5432, chadh@machesneypark.org.

If Railroad Right-of-entry permits are required, the District will be responsible for all permit and flagger fees. The Contractor will be responsible for obtaining and payment for any necessary Railroad insurance and bonds.

3.2 Required Submittals

1. Copies of executed Right-of-way permits, as applicable. (District will provide IDOT permits to Contractor.)

3.3 Payment

Payment for compliance and procurement of permits shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

4 Notification & Access

4.1 General

A public notification program shall be implemented and shall, as a minimum, require the Contractor to be responsible for contacting each home or business connected to the sanitary sewer and informing them of the work to be conducted and when the sewer will be out of service. The Contractor shall be responsible for the following:

1. Secure any temporary or permanent access, storage or construction easements from property(ies) which he deems necessary to perform the work as defined in the specifications. The cost of acquiring these easements shall be considered incidental to project.
2. Notify the District and local roadway authorities three (3) working days, minimum, prior to beginning work.

3. Provide a minimum of forty-eight (48) hours advance written notice (door hanger) to be delivered to each home or business describing the work, schedule, how it affects them, and a telephone number of the Contractor they can call to discuss the project or any problems or concerns that arise. Notification shall also include contact information for the District's Field Operations Manager, Ben Christiansen, 815-209-7952.
4. Personal contact the day prior to the beginning of work being conducted on the section relative to the residents affected.
5. Personally contact any home or business owner that cannot be reconnected within the time stated in the written notice.

The Contractor shall make every effort to maintain the current level of sanitary sewer service usage for the duration of the project. Sanitary sewer users shall not be without sewer service for more than eight (8) hours.

4.2 Required Submittals

1. Copy of proposed door-hanger notification.

4.3 Payment

Payment for notification and access shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

5 Traffic Control and Safety

5.1 General

The Contractor shall be solely responsible for the safety of the operations, and shall comply with all state, local and OSHA regulations and shall implement and maintain approved traffic control measures, including detour routes as required by permits. Traffic control and protection shall be in accordance with the current IDOT standards and specifications.

During the course of construction, a minimum of one (1) lane of traffic shall be kept open in any affected streets.

The Contractor shall comply with all rules and regulations of the State, County, and City authorities regarding closing or restricting the use of public streets or highways. No public or private road shall be closed, unless prior permission is obtained from the roadway authority. Contractor shall conduct the work so as to assure the least possible obstruction to traffic and normal commercial pursuits. Contractor shall protect all obstructions within traveled roadways by installing approved signs, barricades, and lights where necessary for the safety of the public. The Contractor shall notify the appropriate roadway authority a minimum of seventy-two (72) hours prior to beginning any work for approval of traffic control in any affected streets, as well as required detour routes and signing.

Contractor shall provide Detailed Traffic Control Plans as required by the particular roadway authority or permit.

When flagmen and guards are required by regulation or when deemed necessary for safety, the Contractor shall furnish the flagmen or guards with approved high-visibility apparel and other regulation traffic control devices.

5.2 Safety Program

The Contractor shall develop and maintain for the duration of this contract, a safety program that will effectively incorporate and implement all required safety provisions as determined by OSHA 29 CFR.

5.3 Required Submittals

1. Traffic control plans as applicable/required by Roadway Authority to obtain permit.
2. Contractor's safety program and standards.

5.4 Payment

Payment for safety related work shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

Payment for traffic control will be made at the Contract Lump Sum (LS) price. Individual progress payments will be pro-rated in accordance with the amount of lining completed during the given pay period.

6 Sewer Cleaning

6.1 General

The Contractor shall be responsible for removing foreign materials from the sewer lines and for restoring the sewer lines to an acceptable condition that will permit proper installation of the pipe lining materials. The sewer line cleaning shall be accomplished by using a hydraulically propelled, high-velocity jet, or mechanically powered equipment. Selection of the equipment shall be the responsibility of the Contractor and shall be approved by the District prior to starting any of the work. Should the Contractor wish to perform an internal inspection of the lines to be cleaned to determine the optimal cleaning techniques to employ, he may do so at his expense.

The cleaning equipment shall be capable of removing dirt, grease, rocks, sand, roots, mineral deposits and other materials and obstructions from the sewer lines. As many passes shall be made as necessary to clean the sections of sewer to be televised. If cleaning of an entire section cannot be successfully performed without destroying what is left of the sewer, the District shall be notified and the line will either have to be repaired or lined over the debris. Upon completion of a repair, the Contractor shall clean, televise, and line the section of the sewer. The cleaning effort shall be abandoned if it is determined by the District that a major blockage exists which cannot be cleared or removed by cleaning equipment.

Mineral Deposits greater than 1/4" thick and mineral deposits that prohibit the TV camera movement shall be removed utilizing a Nozzteq Lumberjack Multi-Purpose Cutter (or District-approved equivalent).

6.2 Cleaning Precautions

The Contractor shall take all necessary precautions in the use of cleaning equipment to prevent flooding or damage to any of the sewer lines, services, manholes and public or private property. To ensure safe operation, all machines shall be fully enclosed and shall have an automatic overload clutch or relief valve.

When hydraulically propelled cleaning tools (which depend upon water pressure to provide their cleaning force) or tools which retard the flow in the sewer line are used, precautions shall be taken to

insure that the water pressure created does not further damage deteriorated pipe or cause flooding of public or private property being served by the sewer.

The Contractor shall be responsible and liable for any damage caused by sewer back-ups that result from sewer cleaning operations.

6.3 Water and Electricity

Any electricity required shall be the responsibility of the Contractor.

Water: The Contractor shall be responsible for coordinating with the appropriate water authority (City of Rockford, etc.) for the availability of public water for this project. Contractor shall complete a City of Rockford Hydrant Permit and Meter Request for work within the City of Rockford. If public water is not directly available at specific sites, the Contractor shall be responsible for delivery of water to the site. The Contractor shall be responsible for any fees charged for water usage. If required, the Contractor shall obtain a calibrated water meter from the Water Department to gauge usage of water. The Contractor shall notify the District prior to initiating cleaning and flushing.

Water Department	Contact	Telephone
City of Rockford	Jamie Rott	815-961-3781
City of Loves Park	Craig McDonald	815-877-1421
North Park Public Water District	Ed Rice	815-633-5461

6.4 High-Velocity Jet (Hydro-cleaning) Equipment

All high-velocity sewer cleaning equipment shall be capable of producing a minimum of 1,200 pounds per square inch pressure at the pump and a volume capacity of 60 gallons per minute. The equipment shall have a selection of two or more high-velocity nozzles. The nozzles shall be capable of producing a scouring action from 15 to 45 degrees in all size lines designated to be cleaned. The equipment shall carry its own water tank, auxiliary engines, pumps, and hydraulically driven hose reel.

6.5 Direction of Cleaning

Consecutive manhole sections shall generally be cleaned, with cleaning proceeding from upstream to downstream.

6.6 Solids Disposal

All foreign materials shall be removed at the downstream manhole for the section of sewer being cleaned. Foreign materials shall not be allowed to pass into other pipe sections. Debris removed from sewers during cleaning may be deposited at the District's Sewer Plant dump pad, located at 3333 Kishwaukee St, Rockford, IL, at no cost to the Contractor. The Contractor will be responsible for keeping the dump site clean. All materials shall be removed from the project site and properly disposed of by the Contractor no less often than at the end of each work day. Under no circumstances will the Contractor be allowed to accumulate debris, etc., on the site of work beyond the stated time, except in totally enclosed containers, or as otherwise approved by the District.

6.7 Acceptance of Sewer Line Cleaning

All roots in the sewer pipes that would prevent the proper installation of the liner or that would affect the hydraulic cross-section of the pipe shall be removed. Special attention should be used to assure proper removal of roots at the joints of the sewer pipes.

The Contractor shall televise all sewer lines after they are cleaned to verify satisfactory condition. If the television inspection shows the cleaning to be unsatisfactory, the sewer line shall be re-cleaned

and re-televised until it is acceptable to the Contractor and District. No additional compensation will be awarded for re-cleaning or re-televising of sewers.

6.8 Equipment Recovery

If any equipment becomes stuck in the sewer line such that excavation is required for removal, the Contractor shall be responsible for the cost of work necessary, including but not limited to excavation, backfill, restoration, pipe repair and damage resulting from the backup of sewage in the pipe.

6.9 Required Submittals

1. Cleaning equipment list and associated specifications, including proposed jet nozzles and cutting attachments.

6.10 Payment

Payment sewer cleaning shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

7 Sewer Flow Control

7.1 General

The Contractor shall be responsible for controlling the flow in the sewers so that the liner can be installed properly and to allow for proper televising of the lines. The depth of flow shall not exceed 20% of the pipe diameter while televising the line. The Contractor shall be allowed to reduce or eliminate the amount of flow by plugging or blocking an upstream line, or by pumping the flow at the upstream manhole. All plugs or blocking shall be restrained to ensure that they cannot be washed downstream.

Sewer service to all properties upstream of the sewer to be lined must be maintained at all times. This may require bypass pumping of the sewer main during liner installation.

7.2 Acceptable Flow Control Measures

Flow control measures, if approved by the District, may include one or more of the following:

1. Temporary plugging or blocking of the flow.
2. Diversion pumping of the flow to bypass the sewer sections being cleaned and televised.

7.3 Temporary Plugging

The Contractor shall insert an acceptable into the sewer line upstream of the section where work is being performed. The plug shall be so designed that all or any portion of the sewage can be released. During TV inspection and cleaning operations, flow shall be reduced to within the limits specified above. Contractor shall remove the plug well in advance of any possible sewage surcharge or basement flooding. After the work has been completed, flow shall be restored to normal.

7.4 Diversion/Bypass Pumping

When diversion pumping is required, the Contractor shall supply the pumps, conduits, and other equipment to divert the flow of sewage around the manhole section in which work is to be performed. The diversion system shall be of sufficient capacity to handle peak flows that may occur due to a rainstorm. The Contractor will be responsible for furnishing the necessary labor and supervision to set up and operate the diversion pumping system.

Diverted flows shall only be pumped flow into other sanitary sewer manholes as approved by the District. The Contractor shall provide sufficient inspection personnel to ensure that surcharging and backups do not occur on public or private property while pumping or plugging operations are being conducted. If bypass pumping is required on a 24-hour basis, the pumping equipment shall be equipped with mufflers to minimize noise to a level of 90 decibels or less.

Contractor must to obtain permission from owners prior to routing pipes or hoses through private properties.

7.5 Flooding Precautions

While flow in a sewer line is plugged, blocked, or diverted, the Contractor shall take sufficient precautions to protect the sewer lines from damage that might result from sewer surcharging, and to insure that sewer flow control operations do not cause flooding or damage to the public or private property being served by the sewer involved.

The Contractor shall be responsible and liable for any damage caused by sewer back-ups.

7.6 Required Submittals

1. Proposed bypass pumping plan(s) as applicable.
2. Bypass pumping equipment list and specifications, including pump capacities.

7.8 Payment

Payment for sewer flow control shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

8 Television Inspection

8.1 General

Prior to installing the liner, the Contractor shall televise and document all sewer line conditions after cleaning the lines. Final televising and digital recording will be required after the liner is installed and after all services are reinstated. The District will review the digital recordings for final acceptance of the lining process. The flow in the sewer section being televised shall be controlled as stated in these specifications. All televising shall be performed by experienced technicians. The footage counter shall be reset to 0.00 at each manhole when televising through a manhole.

The Contractor shall also provide equipment to play back the digital recordings in the field as requested by the District; the minimum monitor size shall be seventeen inches (17"). The equipment shall play back at the same speed that it was recorded, and shall have a slow-motion or stop-action feature.

Prior to installing the liner, the interior of the pipeline shall be carefully inspected to verify the inside diameter and to determine the locations of any conditions that would prevent the proper installation of the sewer liner. These conditions shall be noted and corrected by the Contractor prior to lining. The Contractor shall keep all documentation for the televised inspections on site for the duration of the project.

If the camera is submerged due to a sag in the pipe, a high velocity jet shall be utilized to divert water away from the camera lens.

8.2 Television Equipment

All televising equipment utilized for television inspection of sanitary sewer pipes by the Contractor shall conform to the minimum standards established herein.

8.3 Definitions

1. MPEG Video: For this specification, MPEG Video shall be defined as ISO-MPEG Level 1 (MPEG-1) coding having a resolution of 352 pixels by 240 pixels and an encoded frame rate of 29.97 frames per second.

8.4 Equipment Scope

Television equipment shall include television camera, television monitor, cables, power source, lights, skids, and other required equipment. The television camera shall be specifically suited for sewer inspection operations.

8.5 Camera Specifications

The camera, television monitor, and other components of the video system shall be capable of producing a minimum 600-line resolution color video picture. The camera shall be rated at three LUX or less.

The camera shall be operative in 100 percent (100%) humidity conditions and shall be equipped with lighting that will illuminate the pipe and will minimize reflective glare. Lighting and camera quality shall be suitable to provide a clear, in-focus picture of the entire inside periphery of the sewer pipe under all conditions encountered during the work. Focal distance shall be adjustable through a range of six inches (6") to infinity. Picture quality and definition shall be to the satisfaction of the District. The camera shall be of the rotating pan and tilt type capable of spanning 360 degrees circumference and 270 degrees on the horizontal axis and small enough to be able to traverse a six-inch diameter sewer with offset joints.

8.6 Camera Mounting

The camera shall be mounted on skids, tracks or a self-propelled transporter suitably sized for each pipe diameter to be investigated. The skids or transporter shall be capable of keeping the camera axis at the centerline of the pipe.

8.7 Digital Recording Requirements

All sewer televising shall be documented on digital media. The digital recording shall include information that accurately reproduces the original picture of the video inspection. The digital recording shall be free of electrical interference and shall produce a clear and stable image. Separate MPEG Video files shall be created for each item inspected.

The pipeline inspection shall consist of identifying a location both within the pipe segment (physical location) and within the digital recording (video frame location) for each observation. The use of time codes for defect location shall NOT be deemed equivalent or acceptable. This will allow the digital recording and inspection data to be cross-referenced for instant access to any point of interest within the digital recording.

Continuous measurements along sewer lines between manholes shall be permanently electronically recorded for purposes of referencing locations of pipe defects. The following items shall be permanently electronically recorded:

1. Report number
2. Date of TV inspection
3. Upstream and downstream District ACS manhole numbers (from/to)
4. Current distance along reach (counter footage)
5. Item Number of sewer segment (refer to Section III, Lining List)
6. Observation, Location, Clock Position, etc.

8.8 Labeling and Ownership

The files shall be labeled with the item number listed in *Section III, Lining List*, section or manhole numbers to identify the video contents. All final video files shall be delivered to the District on a single SSD external hard drive. The hard drive shall become the property of the District.

8.9 Electrical Power

The electricity for all operations will be the responsibility of the Contractor.

8.10 TV Inspection and data collection practices

All inspection and recording operations shall conform to the minimum standards specified herein and all inspection recordings shall be evaluated against these standards.

1. **Color:** All recordings shall be in color with the ability to achieve proper balance of tint and brightness. The loss of color or severe redness due to equipment malfunction and black and white pictures, irrespective of quality, may be cause for rejection.
2. **Focus:** All pictures (recordings) shall be clearly in focus, properly illuminated with good contrast and without interference.
3. **Cleaning:** Prior to televising, all lines shall be subject to cleaning by the Contractor as defined in previous specification sections.
4. **Reverse Setups:** If during the inspection, the television camera will not pass through the entire section from manhole to manhole, the Contractor shall reset his equipment in a manner so that the inspection can be performed from the opposite manhole.
5. **Maximum Flow Depth:** If possible, televising shall be performed while the line segments are in service without plugging or flow diversion. Recordings are to be made such that the water depth is no greater than twenty percent (20%) of the pipe diameter. The intent is to be able to view a minimum of eighty percent (80%) of the pipe periphery. The camera lens must remain above the visible water level and may submerge only while passing through clearly identifiable line sags. If at any time the upstream flow exceeds the above cited maximum allowable twenty percent (20%) of the diameter such that the camera lenses become obscured, the Contractor shall reduce the flow/water depth to allow the television inspection to proceed by one of the above mentioned flow control procedures. It is recommended that the Contractor advance the camera with the sewer jet cleaner to allow flow to be force out of said sags by the water jetting.
6. **Observation of Service Reinstatements:** For the District to properly assess the condition reinstated services the Contractor shall rotate and radially view all service connections. The

camera shall be repositioned, if necessary, in order to provide a clear, distinct view of the entire perimeter of the reinstated service.

7. **Camera Movement:** The camera shall be moved forward through the line in the direction of flow from upstream to downstream and shall proceed at a uniform rate, stopping when necessary to properly document the sewer's condition. However, in no case shall the speed of the camera exceed 30 feet per minute. Manual winches, power winches, TV cable, and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line.
8. **Lens Cleaning:** The camera lens must be kept clean and clear. Any fogging due to oil, grease, or other wastewater content or debris that obscures the lens shall be cleaned off before proceeding with the recording operations.
9. **Camera Position:** Camera units shall have adjustable supports and shall be set so the camera axis is at the centerline of the pipe.
10. **Audio Recording Requirements:** The recording shall contain an audio descriptive narration by the operator/inspector, which will include, but not be limited to, the following information:
 - A. Date and time of TV inspection, operator name, and the name of the adjacent street.
 - B. Verbal confirmation of upstream and downstream District ACS manhole numbers and TV direction in relation to the direction of flow.
 - C. Verbal description of the pipe size, type and condition.
 - D. Verbal description and location of each service connection including whether or not the service is active and/or capped at the main.
11. **Sewer Length Accuracy:** Measurement meters shall be accurate to +/- 1.0 feet over the length of the section being inspected. Marking on cable, or the like, which would require interpolation for the depth of the manhole, will not be allowed. Accuracy of the measurement meter shall be checked daily by the use of a walking meter, roll-a-tape, or other suitable device.
12. **Equipment Recovery:** If any equipment becomes stuck in the sewer line such that excavation is required, the Contractor shall be responsible for the cost of all work necessary to free equipment, including but not limited to: removal and replacement of sanitary sewer, excavation and backfill, restoration, pipe repair, and damage due to back-up of the wastewater.

8.11 Digital Recording Review

The Contractor shall provide digital recordings (1 copy) of all sewer segments before and after rehabilitation with visual and audio records of all services and problem areas in a format that is compatible with the District's equipment. Video files shall be formatted such that the post-lining follows pre-lining for each sewer segment. A complete recording shall be made of each line televised.

All recordings shall be subject to the review process as described herein. The Contractor shall provide an acceptable picture that is distinct, clear, properly illuminated, of good contrast, and without distortion. The picture shall be of true and adequate color and tint, free from interference and at least eighty percent (80%) of the pipe periphery shall be visible above the waterline.

1. **General Review:** All recordings submitted by the Contractor to the District shall be subject to review for acceptability of quality conforming to the minimum standards established herein and to check the Contractor's recording logs against the visible features.
2. **Unacceptable Inspection:** Review of the acceptability of a line segment video shall include the entire line from manhole to manhole. If any portion of the video inspection of a line is unacceptable, the entire segment will be deemed unacceptable and must be re-televised from manhole to manhole. A line that is partially televised and is incomplete due to an excusable condition (i.e., collapsed line) will be accepted for that televised segment only. Loss of color for all or part of a line may be cause for rejection.
3. **Lighting:** The picture, while moving forward, should be adequately illuminated to clearly ascertain with certainty cracks or fractures and their severity, in addition to the typical features, i.e., laterals and joints.
4. **Picture Clarity:** The picture must be clear and distinct without being obscured by dirty lenses, foggy pipeline condition, or out of focus due to operator inattentiveness.
5. **Unacceptable Flow Conditions:** Heavy flow exceeding the foregoing established criteria will be cause to reject the line segment televised. Any flow where the camera is underwater and is not clearly in a line sag condition will, in general, be unacceptable recording conditions and the line segment shall be subject to rejection.
6. **Incorrect Manhole Identifications:** Incorrect written manhole identifications shall be cause for rejection if confusion is created and leaves doubt as to which line has been televised.
7. **Complete Line Segments:** All line segments must be televised complete from manhole to manhole on the same recording in a continuous run. Partial recording on one file and then completing the run on a separate file will not be accepted.
8. **Inaccurate Locations:** Any inaccuracy in the continuous footage meter or identified defect or features which leave doubt as to the accuracy of the locations or total length shall render the line segment recording as unacceptable.
9. **Unknown Interference:** Any other unidentifiable defect such as equipment interference or malfunction, blurred or obscured images from an unknown source that inhibits the ability to completely, reliably and accurately review the recording shall constitute a basis for rejection.

8.12 Required Submittals – Not Used.

8.13 Payment

Payment for television inspection shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

9 Cured-In-Place Pipe Lining

9.1 General

This work shall consist of the rehabilitation of existing sewer lines by the installation of cured-in-place pipe (CIPP). A CIPP is formed by the insertion of a resin-impregnated flexible felt tube into the existing pipe. The tube is expanded in an inversion process so that it conforms to the inside walls of the host conduit, and is then heated to cure the thermosetting resin/felt tube composite, in place.

This specification covers the work necessary to furnish and install the CIPP, complete and in place. The Contractor shall provide all materials, labor, equipment, and services necessary for bypass pumping of sewage flows, cleaning and television inspection of sewer to be lined, installation and curing of liner, service re-connections, and final television inspection and testing of lined pipe system.

9.2 Material Specifications

1. **Tube:** The tube material shall meet the requirements of ASTM F 1216 or ASTM F 1743, Section 5.1.

- A. **Absorbent Fabric Tube:** The tube shall consist of one or more layers of absorbent fabric capable of carrying resin, and capable of withstanding installation pressures and curing temperatures. The tube shall be compatible with the resin system used. The tube material shall be able to stretch to fit irregular pipe sections and negotiate bends. The outside layer of the tube shall be plastic coated with a material that is compatible with the resin system used. The tube shall be fabricated to a size so that when installed, will fit the internal circumference and the length of the pipe. Allowance should be made for circumferential stretch during inversion. For the pull-in methods of lining, the resin soaked felt tube shall have an outer plastic lining that effectively prevents the scrape off or wash off of resin.

For sewer lines with varying pipe diameters, the Contractor shall construct a custom made liner to ensure a tight fit in the host pipe with no wrinkling.

- B. **Thickness:** The finished tube shall have a uniform thickness within $\pm 10\%$ of the specified nominal tube thickness. Thickness shall be measured by compressing the tube material under a load equivalent to typical CIPP installation pressures.
- C. **Plastic Coating:** The outside layer of the tube (before inversion) shall be plastic coated with a transparent flexible material that is compatible with the resin system used. The plastic coating shall not be subject to delamination after cure of the CIPP in accordance with Section 5.2 of ASTM F1216 or ASTM F1743.
- D. **Color:** The tube shall be a light reflective color so that a clear, detailed examination with closed circuit television equipment may be made.
- E. **Delaminations:** The bond between all CIPP layers shall be strong and uniform. All layers, after cure, must form one homogeneous structural pipe wall with no part of the tube left unsaturated by resin. Delaminations in the test samples will be cause for rejection of the line segment rehabilitated. If in the opinion of the District the video disks of the finished liner fail to show similar delamination, then more sampling and

re-testing of the CIPP liner may be done by the Contractor to verify or refute the previous tests.

- F. **Minimum Structural Properties:** The CIPP system shall have the minimum structural properties given below:

CIPP Structural Properties

<u>Property ASTM Test</u>	<u>Minimum Value</u>
Flexural strength D790	4,500 PSI
Flexural modulus D790	350,000 PSI

2. **Resin:** The resin system used shall be a thermoset polyester (or District-approved) meeting the requirements of ASTM F1216 or ASTM F1743, Section 5.2.
 - A. The manufacturer shall certify that the proposed resin system and cure schedule are appropriate for the proposed application, and have been tested in laboratory and field conditions. The resin shall produce CIPP in accordance with the structural and chemical resistance requirements specified.
 - B. The resin used shall be compatible with the felt tube and be able to cure in the presence of water. The initiation temperature for cure shall be less than 180°F. Thixotropic agents that enable the resin system to possess pseudo plastic fluid flow properties and that do not interfere with visual inspection shall be added for viscosity control and to minimize resin washout. Resins may contain pigments that do not interfere with visual inspection or the physical testing of the CIPP filler materials as long as the final pipe product meets or exceeds the minimum standards set forth in this specification.
3. **Deviations:** The Contractor shall submit his price proposal for the appropriate length, size and thickness designated or required. No changes in prices will be entertained by the District as a result of the Contractor modifying the properties of the liner due to unexpected parent pipe conditions.

9.3 CIPP Structural Requirements

1. The CIPP shall be designed in accordance with the requirements of ASTM F 1216, Appendix XI, with the following design parameters. Design calculations shall be submitted to the District for approval prior to lining. The following values must be used in design calculations:

Design safety factor.....	2.0
Reduction factor of long-term effects..... (applied to flexural modulus)	0.50
Ovality – Review Video Recordings.....	2% minimum
Enhancement factor, K.....	7
Groundwater depth.....	to grade
Soil depth (above crown).....	to the surface
Soil modulus.....	1,000 psi
Soil density.....	120#/cf
Live load.....	0
Design condition.....	fully deteriorated
CIPP flexural strength.....	4,500 psi
CIPP flexural modulus.....	350,000 psi

Exclusion: No factors of design relating to adhesion or bonding to the existing pipe will be allowed in the design.

Cured CIPP Thickness: The finished thickness of the cured pipe shall not vary from the nominal minimum thickness specified or required by more than 5%. The minimum liner thickness for structurally sound pipe on this project shall be 4.5 mm. No liner will be approved for installation until the liner thickness calculations have been reviewed and approved by the District.

9.4 General Liner Installation Procedures

Liner installation shall be per ASTM F 1216 or ASTM F 1743. The following installation procedures shall be adhered to unless otherwise approved by the District:

1. **Cleaning of Sewer Line**: It shall be the responsibility of the Contractor to remove all internal debris and root intrusions from the sewer.
2. **Inspection of Pipelines**: Inspection of pipeline shall be performed by experienced personnel trained in locating breaks, obstacles, and service connections by closed-circuit television. The Contractor shall be responsible for field verifying the inside diameters of all sewers to be lined.
3. **Line Obstructions**: It shall be the responsibility of the Contractor to clear the line of obstructions such as solids, roots, protruding service connections or pipe fragments that will inhibit or prevent the insertion of the lining. If inspection reveals an obstruction that cannot be removed by conventional sewer cleaning/cutting equipment, then the Contractor shall advise the District to make a main line repair excavation to uncover and remove or repair the obstruction.
4. **Reinforced Pre-Liner Installation**: Items noted with inflow and infiltration (I/I) defects in Section III, Lining List shall have reinforced pre-liners installed to prevent wash-out of resin. Pre-liner shall consist of two (2) or more layers of polyethylene or similar material and a reinforcing cord grid. Contractor shall report any additional lines with significant inflow/infiltration or other defects that may warrant a pre-liner installation to the District upon completion of the pre-lining television inspection. No additional pre-liners may be installed without written permission from the District.
5. **Preparation of Liner**:
 - A. Designate location where uncured resin and un-impregnated liner will be vacuum impregnated prior to installation. Contractor shall allow District to inspect materials and “wet-out” procedure if requested.
 - B. Material shall be to manufacturer’s standards and meet the lining thickness required.
 - C. Wet Out: The tube shall be impregnated with resin under controlled conditions. The volume of resin used should be sufficient to fill all voids in the tube material at nominal thickness and diameter. Excess resin shall be added to adjust volume changes due to polymerization and to compensate for any resin migration into cracks and joints in the host pipe. A nip roller system shall be used to uniformly distribute the resin throughout the tube. Unsaturated areas of the impregnated tube that are to be installed in the host pipe (the downstream turn back and the down-tube are excluded) will be

cause for rejection. Should the unsaturated section of the tube be noticed before inversion, the unsaturated area of the tube shall be re-impregnated with the resin using methods developed by the Contractor, to the satisfaction of the District.

- D. Transport resin impregnated liner to site immediately prior to inversion in suitable light-proof container with temperature maintained below 40 degrees Fahrenheit.
 - E. In order to verify that the tube is wet out properly, batch tickets verifying the amount of resin used for each tube (lbs. per tube) and corresponding volume calculations shall be provided to the District prior to tube delivery.
6. **Inversion / Installation:** Insert liner through existing manholes by means of an inversion process and application of hydrostatic head sufficient to fully extend liner to next designated manhole or by means of winching the liner through the pipe to the next designated manhole. Alternatively, the tube can be pulled into place and expanded by water inversion process with an inflation bladder. Non-toxic lubricant may be used to reduce friction. The inversion / installation process shall be conducted at a maximum controlled speed of two feet per second (2 ft./sec.)
7. **Pressure:** Tube installation forces or pressures shall be limited so as not to stretch the tube longitudinally by more than five percent (5%) of the original length. Before installation begins, the tube manufacturer shall provide the minimum pressure required to hold the tube tight against the host pipe and the maximum allowable pressure so as not to over stretch or damage the tube. Once the installation has started, the pressure shall be maintained between the minimum and the maximum pressures until the installation has been completed.
8. **Heated Water Curing of Liner:**
- A. Description: After inversion is completed, a suitable heat source with equipment to circulate heated water throughout the pipe liner will be required. The equipment should be capable of delivering hot water throughout the section to uniformly raise the temperature above the temperature required to effect a cure of the resin. Incoming water temperature during the cure period shall be 190 degrees Fahrenheit, +/- 15 degrees Fahrenheit or as otherwise recommended by the manufacturer.
 - B. Temperature Gauges: The heat source shall be equipped with suitable gauges to monitor the temperature of the incoming and outgoing water supply. Another such device should be placed between the impregnated tube and the pipe invert at the termination to monitor the temperatures for the duration of curing.
 - C. Curing Temperatures: Initial cure will occur during temperature heat-up and is completed when exposed portions of the new pipe appear to be hard and sound, and the remote temperature sensor indicates that the temperature is of a magnitude to realize an exotherm or cure in the resin. Water temperature in the line during the cure period should be as recommended by the resin manufacturer. After initial cure is reached, the temperature should be raised to the post-cure temperature recommended by the resin manufacturer. The post-cure temperature should be held for a period as recommended by the resin manufacturer, during which time the re-circulation of the water and cycling of the boiler to maintain temperature continues. The curing of the CIPP must take into account the existing pipe material, the resin system, and ground

conditions (temperature, moisture level, and thermal conductivity of soil). Temperature gauges shall be monitored by the Contractor every 15 minutes. A curing temperature / time log shall be maintained and provided to the Inspector immediately after the curing schedule is completed. The Contractor shall adhere to the resin manufacturer's guidelines and recommendations and shall retain a copy of the same on the jobsite.

- D. **Cool Down:** Using Cool Water after Heated Water Cure: The new pipe shall be cooled to a temperature below 100 degrees Fahrenheit (38 degrees Celsius) or as recommended by the resin manufacturer before relieving the static head in the inversion standpipe. Cool-down may be accomplished by the introduction of cool water into the inversion standpipe water being drained from the downstream end. Care should be taken in the release of head so that a vacuum will not be developed that could damage the newly installed pipe.

9. **Steam Curing of Liner: Steam Curing of Liner:**

- A. After inversion is completed, suitable steam-generating equipment is required to distribute steam throughout the pipe liner. The equipment shall be capable of delivering steam throughout the section to uniformly raise the temperature within the pipe above the threshold required to effect a cure of the resin.
- B. The temperature in the line during the cure period shall be as recommended by the resin manufacturer.
- C. The steam-generating equipment shall be equipped with a gauge to monitor the temperature of the outgoing steam. The temperature of the resin being cured shall be monitored by placing gauges between the impregnated tube and the existing pipe at both ends to determine the temperature during cure. Temperature gauges shall be monitored by the Contractor every fifteen (15) minutes and recorded on logs which shall be provided to the Inspector immediately after the curing schedule is completed.
- D. Initial cure will occur during temperature heat-up and is completed when exposed portions of the new pipe appear to be hard and sound, and the remote temperature sensor indicates that the temperature is sufficient to realize an exotherm or cure in the resin. After initial cure is reached, the temperature shall be raised to post-cure temperatures recommended by the resin manufacturer. The post-cure temperature shall be held for a period as recommended by the resin manufacturer, during which time the distribution and control of steam to maintain the temperature continues. The curing of the CIPP must take into account the existing pipe material, the resin system, and ground conditions (temperature, moisture level, and thermal conductivity of soil).
- E. Cool down using cool water after steam cure. The new pipe should be cooled to a temperature below 113 degrees Fahrenheit (45 degrees Celsius) before relieving the internal pressure within the section. Cool-down may be accomplished by the introduction of cool water into the section to replace the mixture of air and steam being drained from the liner. Care should be taken in the release of the air pressure so that a vacuum will not be developed that could damage the newly installed pipe.

10. **Required Pressures:** Before the curing begins, the pressure required to hold the flexible tube tight against the existing conduit shall be provided by the tube manufacturer. Once

the cure has started and dimpling for laterals is completed, the required pressure shall be maintained until the cure has been completed. Should the pressure deviate more than 2.3 ft of water (1 psi) from the required pressure, the installed tube shall be removed from the existing conduit. A continuous log of pressure during cure shall be maintained.

11. **Bypass Pumping:** The Contractor shall provide for the flow of sewage around the section or sections of sewer lines being installed.
12. **Water:** The Contractor shall be responsible for coordinating with the appropriate water authority for the availability of public water for this project. If public water is not directly available at specific sites, the Contractor shall be responsible for delivery of water to the site. The Contractor shall be responsible for any fees charged for water usage. If required, the Contractor shall obtain a calibrated water meter from the Water Department to gauge usage of water.

<u>Water Department</u>	<u>Contact</u>	<u>Telephone</u>
City of Rockford	Jamie Rott	815-961-3781
City of Loves Park	Craig McDonald	815-877-1421
North Park Public Water District	Ed Rice	815-633-5461

13. **Liner Termination in Manholes:** Except where the liner extends through a manhole, the liner pipe shall be cut flush with the manhole wall and there shall be no visible annular space between the liner and invert. In manholes where the liner extends through the manhole, the top of the liner shall be cut flush with the manhole bench. Any voids shall be filled with a District-approved grout. Both upstream and downstream liner ends shall be beveled to 22.5° from the flow line to mid-pipe by grinding.
14. **Annular Seal at Manholes:** Hydrophilic seals shall be installed at all liner-to-manhole connections. Hydrophilic seals shall be LMK Technologies Hydrophilic O-Rings, Hydrotite O-Ring (RSS-040P), LMK Technologies Insignia Hydrophilic End Seal Sleeves or approved equivalent.

<u>Pipe Diameter</u>	<u>End Seal Requirements</u>
8" – 12"	Require double-o rings or single LMK Insignia seals
15" – 30"	LMK Insignia end seals

15. **Lining through Manholes to be Abandoned:** If the project requires the contractor to line sanitary sewer through an existing manhole to be abandoned in place, the contractor shall place sand bags over the liner once the inversion has taken place, in order to keep the liner from raising up in the manhole. If sand bags cannot be placed over the liner, the Contractor shall be required to utilize water inversion method for liner installation, at no extra cost.

9.5 Required Submittals

1. **Material and Curing Details:** The Contractor shall provide submittals on all lining materials and resins, and shall furnish manufacturer certification that the liner materials are in compliance with the Specifications, Codes, and standards referenced herein. The submittals shall include details of all component materials (end seals, pre-liners, etc.) and construction details including MSDS sheets and complete manufacturer's recommendations for storage procedures and temperature control, (step curing temperature/hours at each and final stage for each section thickness and length) handling, inserting the liner, and curing details.

2. **Chemical Resistance Data:** The CIPP shall meet the chemical resistance requirements of ASTM F 1216, Appendix X2. Test data from CIPP samples similar to that proposed for actual construction shall be submitted prior to installation. CIPP samples with and without plastic coating shall meet these chemical testing requirements.
3. **Long - Term Creep Data:** Long-term creep data in accordance with ASTM D 2990 shall be submitted by each manufacturer and/or pipe product supplier prior to installation. Duration of creep testing shall be a minimum of 10,000 hours.
4. **Structural Property Testing:** To verify past performance, the manufacturer shall submit a minimum of ten (10) independent laboratory test results from previous field installations of the same liner materials proposed for the actual installation. These test results must verify that the structural properties specified under Section 7.1.1(f) have been achieved in previous field applications.
5. **Design Thickness Calculations:** Prepared in accordance with these Detailed Specifications.
6. **Hydraulic Capacity Calculations:** The Contractor shall provide calculations which demonstrate that the liner pipe shall have at least 100% of full flow capacity of the original pipe before rehabilitation in a full gravity flow condition. Calculated capacities may be derived using a commonly accepted roughness coefficient.
7. **Training Certification:** Contractor shall submit evidence of installer training, testing and / or certification for the proper installation and use of manufacturer's products.
8. **Design Guide/BMP Manual:** Contractor shall submit installer's and/or manufacturer's manual of best management practices for design, quality control of liner manufacture and installation, including detailed inspection, testing of physical properties, retention of production samples, and taking of field samples.

9.6 Payment

Payment for sanitary sewer lining will be made at Contract unit price per Linear Foot (LF) of the diameter installed. Measurement for payment will be based upon the section footage provided in *Section III, Lining List*. Distance is measured from center of manhole casting to center of manhole casting. Should actual measured lengths and lengths provided *Section III* differ from the Contractor's field measurement by more than five (5) linear feet, District field measurement shall be used to determine measurement for payment.

Payment for reinforced pre-liner installation will be made at the Contract unit price per Linear Foot (LF) of the diameter installed. Measurement for payment will be the same as sanitary sewer lining.

10 Sewer Service Reinstatement

10.1 General

1. Prior to installing the sewer liner and after performing any repair work, the Contractor shall locate the sewer lateral openings in the main by televising. Services capped or plugged at the main shall be documented.
2. Services that are capped, plugged, or not in use shall not be reopened. All live services shall be reinstated at the main. The Contractor shall utilize the pan and tilt feature of the TV camera to ascertain which services are capped at the main.

3. If the Contractor cannot ascertain through pan and tilt televising methods whether a sewer service is live or in use, the District and Contractor shall work together with the property owner/resident to determine if a service is in use or where a particular structure is served. Flow or dye tests for service connections shall be coordinated with property owner/resident and performed during pre-lining televising.
4. After the sewer lining has been completed as required, the Contractor shall re-establish service connections to 100% of the original opening. Service reinstatement shall be done without excavation from the interior of the pipe by means of a television camera and a remotely controlled cutting device. The edges of the service cut-ins shall be smooth and even. There shall be no rough or jagged edges. The entire circumference (360°) of the sewer service reinstatement shall be televised and recorded on the post-lining recording. All sewer services reinstated shall be smoothed with a wire brush upon reinstatement.

Over-cutting of the opening will be cause for rejection. In the event of said over-cutting, the Contractor shall either make an open cut saddle type main line repair, or use a method of short-lining the service that overlaps the over-cut portion of the sewer liner. Other methods of correction may be used. The method of correcting an over-cut service must be approved by the District prior to performing the corrective work.

The operator responsible for sewer service reinstatement shall be approved by the District. The Contractor shall provide documentation to indicate the operator has sufficient prior training and experience to complete this work.

5. Sanitary sewer users shall not be without sewer service for more than eight (8) hours.
6. Any pieces of the liner that were cut from the service connections shall be captured at the downstream manhole and disposed of by the Contractor. No cut liner pieces shall be left in the pipe lateral, main, or manhole.

10.2 Offsite Sewer Service Reinstatement

In certain cases, the District may direct the Contractor to a location offsite in order to reinstate a sanitary sewer service that has been previously lined over. Service reinstatement be completed as specified elsewhere herein. Work shall also include a separate mobilization to the service site, traffic control and safety measures as specified elsewhere herein.

10.3 Required Submittals

1. Names and documentation of experience and training for all operators responsible for service reinstatement.
2. Reinstatement equipment list and specifications.

10.4 Payment

Payment for sewer service reinstatement will be made at the Contract unit price per Each (EA).

Payment for offsite sewer service reinstatement will be made at the Contract unit price per Each (EA).

11 Protruding Service Removal

11.1 General

It shall be the responsibility of the Contractor to clear the line of protruding service connections greater than one inch (1") in length that could prevent the insertion of the lining. The protruding service connection shall be ground flush with the mainline pipe prior to lining. Protruding services must be removed/ground utilizing a robotic cutting tool. The use of "can" cutters will not be allowed to remove protruding services. The District shall be alerted of any protruding service connection greater than one inch (1") shall be pointed out to the District prior to grinding. If inspection reveals an obstruction/connection that cannot be removed by conventional cutting equipment, the Contractor shall advise the District to make a spot repair excavation to expose and remove or repair the obstruction.

11.2 Required Submittals

1. Protruding service removal equipment list and specifications.

11.3 Payment

Payment for protruding service removal will be made at the Contract unit price per Each (EA).

12 Quality Assurance

12.1 General

The Contractor shall televise the liner after installation of the liner and after services have been reinstated. The television recording shall be used by the District to perform final inspection on the line. The lining shall be impervious and free of any leakage between the pipe and the surrounding ground, as well as any leakage at the manholes between the parent pipe and the liner. All service cuts shall be in precise alignment with the actual service pipe; displacement of the liner cut from the service due to shrinkage, creep, etc., will not be permitted.

The Contractor shall repair, at his own expense, any defects in the liner that will affect the integrity or strength of the pipe and any visual or functional defects such as wrinkles, drill holes, folds, pillows, etc. All repairs will be performed in a manner that is mutually agreed upon by the District and the Contractor.

Leakage testing of the installed liner pipe will not be required on this project.

Hydraulic infiltration testing will not be required on this project.

Defects: The finished liner shall be continuous over the entire length of an inversion run between two manholes or access points and shall be free of visual defects such as foreign inclusions, dry spots, pin holes, lifts, and delaminations.

Wrinkles: Any wrinkles in the bottom half of the finished liner pipe that are larger than 5% of the pipe diameter are unacceptable and shall be removed and repaired by the Contractor at the Contractor's expense; method to be approved by the District.

Annular void: If an annular void exists, Contractor shall either devise a method to grout the void to the satisfaction of the District or repair or replace that section of pipe at the Contractor's expense.

Methods of repair shall be proposed by the Contractor and submitted to the District for review and approval.

Post-Lining Televising: Visual inspection of the CIPP shall be in accordance with *ASTM F 1216*.

Third Party Testing: All material testing referred to in this contract specification shall be done by accredited THIRD PARTY testing laboratories. The Contractor shall inform the District at the pre-construction meeting of the testing laboratory he intends to use. All costs for testing shall be incidental to the lining work.

Physical Samples

Pipe samples shall be cut and tested from a minimum number of segments of the cured pipe segments installed in this project based on the table below. Liner segments to be tested will be determined by the District by random methodology. Samples shall be prepared and tested in accordance with *ASTM F 1216*. Copies of certified test reports by an approved testing laboratory shall be provided to the District. If ten percent (10%) or more of the samples tested do not meet the test requirements listed below, the Contractor will be required to provide an extended ten (10) year warranty (total) for all sewer segments lined under this contract. Line segments with structural properties less than fifty percent (50%) of specification shall be removed and new sewer installed from manhole to manhole per District standards.

Testing Frequency Table

<u>Liner Diameter</u>	<u>Sample Frequency</u>
8-12"	25% of segments
15-21"	50% of segments
24"+	Each segment

Required Structural Properties

<u>Property</u>	<u>Minimum Value</u>	<u>ASTM Test Method</u>
Flexural Strength	4,500 PSI	D790
Flexural Modulus	350,000 PSI	D790

Sampling: For each inversion length tested, CIPP samples shall be cut from a section of cured pipe at an intermediate manhole or at the termination point that has been inverted through a like diameter pipe which has been held in place by a suitable heat sink, such as sandbags. All samples shall be labeled before shipment to the testing laboratory.

Sampling Procedure: The sample shall be large enough to provide a minimum of three but preferably five specimens for flexural testing. The full CIPP sample wall thickness shall be tested whenever possible. If the sample is irregular or distorted such that proper testing is inhibited, wall thickness shall be machined away from only the inside pipe face of the sample. Test specimens shall be oriented on the testing machine with the interior surface of the CIPP in tension.

The following test procedures shall be followed after the sample is cured and removed.

1. Flexural (bending) Properties: The tangent flexural modulus of elasticity and flexural stress shall be measured for gravity and pressure pipe applications in accordance with Test Method D 790, Test Method #1 - Procedure A.

2. **Thickness Measurement:** The thickness of the CIPP will be monitored by the testing lab using the above referenced flexural samples. If there is a dispute between the Contractor and the District as to the actual thickness of the CIPP based on these samples, then the thickness will be established by means of Ultrasonic Thickness Measurement. The thickness measurements will be taken using an ultrasonic thickness gauge or flaw detector. A series of four (4) measurements will be taken at various points inside the pipe and an average thickness will be determined. This thickness will be the basis for any penalty for substandard thickness and said testing will be done at the Contractor's expense.

12.2 Required Submittals

1. Third party test results.

12.3 Payment

Payment for quality assurance shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

The District will retain ten percent (10%) of all payments until the physical testing data has been submitted, reviewed and approved.

13 Restoration Work

13.1 General

All restoration of private and public property, sidewalks, driveways, all other slab work, concrete and asphalt, drainage channels, storm sewers and dry wells, disturbed or damaged as a result of this construction project shall be promptly completed, in accordance with roadway authority standards or on private property equal to or better than the pre-construction conditions as directed by the District and guaranteed by the Contractor for a period of two (2) years following satisfactory completion and final acceptance of the total contract.

All excavated areas shall be guaranteed against subsidence and settlement for a period of three (3) years upon final completion of the contract. Any restoration work damaged as a result of trench subsidence shall be restored again at no cost to the District.

All storm sewer, watermain, gas main, corrugated metal pipe, drainage tile or other drainage devices shall be repaired and re-laid or replaced at original elevations. Pipes which have been, in the estimation of the District significantly damaged by the Contractor, shall be replaced with new pipe of the same diameter, length and type, at no added expense to the District; any necessary couplings and fittings shall be used, as necessary, and the work shall to the District's satisfaction. When necessary, temporary restoration of roads, drives, fences, etc., will be required.

Reference *General Provisions and Technical Specifications for Sanitary Sewer Construction, Section 4:2*, for specifications on seeding and sodding and fertilizer, and to *Sections 250, 251, and 252 of the IDOT Standard Specifications for Road and Bridge Construction in Illinois*, Current Edition.

On private property and public right-of-way, the Contractor shall remove and replace (or replant) all bushes, shrubs and plants damaged or destroyed with species of similar type, size and quantity. These shall be guaranteed for a period of one (1) year after job completion.

13.2 Required Submittals – Not used.

13.3 Payment

Payment for restoration work shall be included in the Contract unit price per Linear Foot (LF) for the sanitary sewer lining pay items.

14 Warranty

The Contractor shall unconditionally warrant their products for a period of two (2) years commencing on the date installation of the entire system is completed and accepted, in writing, by the District. The Contractor shall repair, at his own expense, any defects in the liner that will affect the integrity or strength of the pipe. All repairs will be performed in a manner that is mutually agreed upon by the District and the Contractor. Any such repairs shall likewise be covered by the same warranty period from the date of subsequent installation and written approval by the District.

Any repairs required after the liner is installed and within the two (2) year warranty period will require testing in accordance with *T.S. 9 Acceptance Tests, Pages 94 through 98 of the General Provisions and Technical Specifications for Sanitary Sewer Construction*. This testing shall be performed by the Contractor at no additional cost to the District. Complete site restoration of any repairs shall also be the responsibility of the Contractor.

Section II
Contract Forms

Proposal

Project: 2020-2021 Sanitary Sewer System Lining
Capital Project No. 2137

Location: Existing sanitary sewer collection system throughout the City of Rockford, City of Loves Park, and the Village of Machesney Park, Winnebago County, Illinois

Completion Date: July 31, 2021

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

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.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.

4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of the 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 or 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 District's representatives.

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

9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 99-093 and will make this information available upon request.
10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on District projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. The Bidder is responsible for verifying current information at the State's website.
11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".
13. The undersigned, as Bidder, declares he will comply with Public Act 96-929 (30 ILCS 570) regarding Illinois residents' employment.
14. The undersigned, as Bidder, declares he will comply with non-discrimination in employment in accordance with the Illinois Fair Employment Practices Commissions Rules & Regulations.
15. The undersigned, as Bidder, declares that he currently participates in an apprenticeship or training program that is registered with the United States Department of Labor's Bureau of Apprenticeship and Training or other acceptable State of Illinois Department of Labor monitored program.

In submitting this bid, it is understood that the right is reserved by the 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.

Not to be used for bidding purposes

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	88,297	LF	8" Dia. Sanitary Sewer Lining			
2	9,042	LF	8" Dia. Reinforced Pre-Liner			
3	566	LF	9" Dia. Sanitary Sewer Lining			
4	1,600	EA	Service Reinstatement			
5	10	EA	Offsite Service Reinstatement			
6	80	EA	Protruding Service Removal			
7	1	LS	Traffic Control and Protection			
TOTAL BID PRICE:						
				(In Writing)		(In Figures)

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

By: _____

Name: _____ Title: _____ Date: _____

Fair Employment Practices Affidavit of Compliance

Project: 2020-2021 Sanitary Sewer System Lining, Capital Project No. 2137

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

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

and that said company will comply with any and all requirements of Title 44 Admin. Code 750. APPENDIX A – Equal Opportunity Clause, Rules and Regulations, Illinois Department of Human Rights, which read as follows:

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

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

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

IL Dept of Human Rights Registration No.: _____ Expiration Date: _____

Signature

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

Notary Public

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: FIVE PERCENT (5%) OF THE TOTAL BID PRICE 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.

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

Principal

(Seal)

By _____
Name: _____
Title: _____
Date: _____

Attest:

Secretary

Surety

(Seal)

By _____
Name: _____
Title: _____
Date: _____

Agreement

1. General

THIS AGREEMENT, made and concluded this ____ day of _____, 2020, between the Rock River Water Reclamation District, Rockford, Illinois (District), acting by and through the Board of Trustees, and _____, his/their executors, administrators, successors or assigns:

2. Scope of Work

WITNESSETH: That for and in consideration of the payments and agreements made in the Proposal attached hereto, to be made and performed by 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 Contractor, and the Contractor shall accept, in full payment for the performance of this Contract, subject to any additions or deductions provided for hereby, in current funds, the Total Contract Price of _____ and 00/100 (\$_____).

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

4. Bond

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

5. Maintenance and Guarantee

The Contractor shall promptly repair, replace, restore or rebuild any imperfections that may arise and shall maintain satisfactory to 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 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.

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. The Contractor shall be responsible for verifying the prevailing wages each month and notifying all subcontractors of the appropriate monthly rates. The State of Illinois requires contractors and subcontractors on District projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. The Contractor is responsible for verifying current website.

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

The Contractor shall comply with the American Disabilities Act of 1990 (ADA). The Contractor will hold harmless and indemnify 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)

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 working days after the District issues its award notification.

The Contractor shall comply with Article 2 of Public Act 83-1472 which provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and further, that Illinois workers are available and capable of performing the particular type work involved.

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

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

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

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

10. Time

Work under this Agreement shall be commenced upon written Notice to Proceed. All lining, televising, testing and restoration shall be completed by July 31, 2021.

11. Liquidated Damages

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

12. Counterparts

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

13. Seals

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

**Rock River Water Reclamation District
Winnebago County, Illinois**

(Seal)

By _____
President, Board of Trustees

ATTEST: _____
Clerk of the Board

Contractor

(Corporate Seal)

By _____
Contractor's Officer

Name: _____

Title: _____

Date: _____

ATTEST: _____

Labor & Material Payment Bond

TO: _____ Contractor Name

_____ Contractor City, State

KNOW ALL MEN BY THESE PRESENTS

That _____ (Contractor)

as Principal, and _____

a corporation of the State of _____ as Surety, are held and firmly bound unto the Rock River Water Reclamation District, as Obligee, for the use and benefit of claimants as hereinafter defined in the amount of

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

WHEREAS, Principal has by written agreement dated _____ 20__ Entered into a Contract with Obligee for _____ in accordance with contract documents prepared by the Rock River Water Reclamation District which Contract is by reference made a part hereof, and is hereinafter 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 this _____ day of _____, 20____.

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

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.

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

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Section III

Lining List

Item No.	UP Basin	UP MH	DN Basin	DN MH	Location	Pipe Dia. (INCH)	Length (FT)	Service Reinstatements (EACH)	Roots (R)	Inflow/ Infiltration (I/I)	Broken Pipe or Cracks (BP)	Date Last Televised	Access Concerns (A)	MAP #	Roadway Jurisdiction
1	002	022	002	021	FITCH RD	8	286.2	10	R		BP	05/02/19	-	2	CITY OF ROCKFORD
2	007	025	007	024	Chadwick Drive	8	202.8	4	R		BP	10/06/17	-	3	CITY OF ROCKFORD
3	008	016	008	012	Alpine Road	8	250.1	0		1/1		01/25/07	-	4	CITY OF ROCKFORD
4	008	017	008	016	Alpine Road	8	250.4	0		1/1		01/25/07	-	4	CITY OF ROCKFORD
5	009	080	009	077	Broadway Street	8	250.3	2	R		BP	05/19/11	-	2	CITY OF ROCKFORD
6	009	081	009	082	Orange Street (In Alley)	8	458.4	7	R		BP	12/04/06	-	2	CITY OF ROCKFORD
7	009	181	009	081	Orange Street (In Alley)	8	299.0	1	R		BP	12/05/06	-	2	CITY OF ROCKFORD
8	011	075	011	074	Pilgrim Ct & Heritage Ct	8	186.5	2	R		BP	10/25/18	EASEMENT	3	CITY OF ROCKFORD
9	011	076	011	075	2512 Pilgrim Ct	8	183.0	0	R		BP	10/25/18	EASEMENT	3	CITY OF ROCKFORD
10	011	098	011	097	2312 24th Street	8	356.0	8	R		BP	05/15/13	-	3	CITY OF ROCKFORD
11	011	132	011	131	2712 19th Avenue	8	324.6	7	R		BP	05/12/16	-	3	CITY OF ROCKFORD
12	011	135	011	128	19th Avenue	8	322.6	7	R		BP	05/16/16	-	3	CITY OF ROCKFORD
13	011	143	011	142	2520 19th Ave	8	228.5	7	R		BP	08/23/16	-	3	CITY OF ROCKFORD
14	012	018	012	017	Ohio Pkwy & Dartmouth Drive	8	314.9	10	R		BP	09/14/06	-	3	CITY OF ROCKFORD
15	012	024	012	023	2340 Ohio Pkwy	8	301.5	5	R	1/1	BP	01/13/17	-	3	CITY OF ROCKFORD
16	012	025	012	024	2340 Ohio Pkwy	8	289.4	3		1/1		01/12/17	-	3	CITY OF ROCKFORD
17	012	065	012	064	2336 Nebraska Road	8	325.3	8	R		BP	04/18/13	-	3	CITY OF ROCKFORD
18	012	066	012	065	2360 Nebraska Road	8	317.6	10		1/1		05/17/13	-	3	CITY OF ROCKFORD
19	012	071	012	008	2112 Colorado Avenue	8	329.0	8	R		BP	11/19/09	-	3	CITY OF ROCKFORD
20	014	013	014	012	339 Cole Ave	8	284.7	10	R		BP	04/13/15	-	2	CITY OF ROCKFORD
21	014	035	014	034	2325 Rose Avenue	8	44.2	2	R		BP	03/06/18	-	2	CITY OF ROCKFORD
22	014	058	014	057	Clover Avenue	8	326.7	0		1/1		08/21/18	EASEMENT	2	CITY OF ROCKFORD
23	014	085	014	084	1407 Ogilby Road	8	269.0	2	R			08/21/18	-	1	CITY OF ROCKFORD
24	014	110	014	109	1722 Iris Ave	8	357.6	13	R	1/1	BP	03/10/16	-	1	CITY OF ROCKFORD
25	014	111	014	067D	Ogilby Road	8	219.8	1	R			08/24/18	-	1	CITY OF ROCKFORD
26	014	112	014	111	Ogilby Road	8	131.7	2	R		BP	08/24/18	-	1	CITY OF ROCKFORD
27	014	115	014	114	S. Central Avenue	8	199.0	4	R			08/20/18	-	1	CITY OF ROCKFORD
28	014	117	014	115	S. Central Avenue	8	241.5	4	R			08/20/18	-	1	CITY OF ROCKFORD
29	016	055	016	054	2524 18th Ave	8	139.1	3	R			02/03/20	-	3	CITY OF ROCKFORD
30	016	067	016	058	2717 16th Avenue	8	156.9	2	R		BP	10/05/16	-	3	CITY OF ROCKFORD
31	016	069	016	068	1609 24th Street	8	204.2	4	R		BP	08/24/16	-	3	CITY OF ROCKFORD
32	016	071	016	068	1719 24th Street	8	256.7	6	R		BP	08/25/16	-	3	CITY OF ROCKFORD
33	016	073	016	068	2827 16th Avenue	8	223.9	2			BP	08/25/16	-	3	CITY OF ROCKFORD
34	016	074	016	073	1702 25th Street	8	222.8	2			BP	08/14/15	-	3	CITY OF ROCKFORD
35	020	035	020	034	1715 Log Cabin Avenue	8	249.7	6	R		BP	01/24/13	-	4	CITY OF ROCKFORD
36	020	037	020	036	LOG CABIN AVE	8	201.0	2	R		BP	12/04/19	-	4	CITY OF ROCKFORD
37	020	039	020	037	LOG CABIN AVE	8	258.6	6	R		BP	12/03/19	EASEMENT	4	CITY OF ROCKFORD
38	020	083	020	078	1626 Oakdale Street	8	325.0	6	R		BP	11/05/13	-	4	CITY OF ROCKFORD
39	020	084	020	083	4403 Forest View Avenue	8	332.3	8	R		BP	09/16/10	-	4	CITY OF ROCKFORD
40	021	010	021	009	Indiana Avenue	8	230.7	7	R		BP	06/07/13	-	6	CITY OF ROCKFORD
41	021	033	021	032	Michigan Avenue	8	148.1	1	R			08/24/18	-	2	CITY OF ROCKFORD
42	021	034	021	033	2215 Holland Street	8	267.4	6	R			08/24/18	-	2	CITY OF ROCKFORD
43	021	035	021	034	2244 Holland Street	8	243.1	6	R			08/24/18	-	2	CITY OF ROCKFORD
44	021	042	021	041	1011 Wigton Avenue	8	223.9	5	R			09/13/18	-	6	CITY OF ROCKFORD
45	021	043	021	042	Wigton Avenue	8	223.3	5	R		BP	09/13/18	-	6	CITY OF ROCKFORD
46	021	048	021	047	1015 Island Avenue	8	267.9	7	R			01/25/11	-	6	CITY OF ROCKFORD
47	021	054	021	053	1019 Lincoln Avenue	8	203.7	7	R			08/28/18	-	6	CITY OF ROCKFORD

Item No.	UP Basin	UP MH	DN Basin	DN MH	Location	Pipe Dia. (INCH)	Length (FT)	Service Reinstatements (EACH)	Roots (R)	Inflow/ Infiltration (I/I)	Broken Pipe or Cracks (BP)	Date Last Televised	Access Concerns (A)	MAP #	Roadway Jurisdiction
48	021	055	021	053	1524 Rose Avenue	8	153.3	2	R			08/28/18	-	6	CITY OF ROCKFORD
49	021	061	021	056	Rose Avenue	8	270.6	4	R		BP	10/08/19	-	6	CITY OF ROCKFORD
50	021	064	021	063	Harding Street	8	203.5	5	R			08/28/18	-	6	CITY OF ROCKFORD
51	021	065	021	064	916 Harding Street	8	254.0	6	R		BP	12/10/10	-	6	CITY OF ROCKFORD
52	021	067	021	066	Holland Street	8	157.7	1	R		BP	09/13/18	-	6	CITY OF ROCKFORD
53	021	070	021	069	Knowlton Street	8	211.4	8	R		BP	08/28/18	-	6	CITY OF ROCKFORD
54	021	074	021	073	Clover Avenue	8	198.1	3	R			08/29/18	-	6	CITY OF ROCKFORD
55	021	079	021	072	1211 Lincoln Avenue	8	151.1	4	R			08/30/18	-	6	CITY OF ROCKFORD
56	021	080	021	079	Lincoln Avenue	8	147.6	4	R		BP	08/30/18	-	6	CITY OF ROCKFORD
57	021	081	021	080	1527 S. Central Avenue	8	180.6	1	R			08/29/18	-	5	CITY OF ROCKFORD
58	021	082	021	081	1511 S. Central Avenue	8	233.4	8	R			08/29/18	-	5	CITY OF ROCKFORD
59	021	086	021	080	Central Avenue	8	175.4	1	R			08/30/18	EASEMENT	5	CITY OF ROCKFORD
60	021	088	021	087	1526 Victoria Avenue	8	174.4	1	R			08/29/18	EASEMENT	5	CITY OF ROCKFORD
61	021	089	021	088	1515 Victoria Avenue	8	199.1	8	R			08/29/18	-	5	CITY OF ROCKFORD
62	021	103	021	096	Regina Lane	8	102.7	0	R			09/04/18	EASEMENT	5	CITY OF ROCKFORD
63	021	108	021	106	1626 Montague Road	8	280.1	2	R			08/31/18	-	5	CITY OF ROCKFORD
64	021	109	021	101	1731 Montague Road	8	136.9	1	R			04/17/14	-	5	CITY OF ROCKFORD
65	021	110	021	109	1803 Montague Road	8	315.1	3	R		BP	04/15/14	-	5	ROCKFORD TOWNSHIP
66	021	127	021	044	Wigton Avenue	8	127.3	2	R		BP	03/09/16	-	6	CITY OF ROCKFORD
67	026	012	026	010	12TH AVE	8	311.7	7	R		BP	09/23/19	-	7	CITY OF ROCKFORD
68	027	024	027	023	2235 08th Avenue	8	358.9	16	R		BP	01/13/14	-	7	CITY OF ROCKFORD
69	027	052	027	051	901 19th Street	8	395.6	14	R		BP	08/21/17	-	7	CITY OF ROCKFORD
70	027	053	027	052	2340 8th Avenue	8	409.7	11	R		BP	02/22/18	-	7	CITY OF ROCKFORD
71	027	055	027	054	2336 09th Avenue	8	418.7	13	R		BP	05/24/12	-	7	CITY OF ROCKFORD
72	029	019	029	013	804 Glendale Avenue	8	332.1	11	R		BP	04/05/10	-	7	CITY OF ROCKFORD
73	030	021	030	020	814 Linden Ave	8	366.9	6	R		BP	07/30/18	-	6	CITY OF ROCKFORD
74	031	028	031	027	KENT ST	8	169.1	4	R		BP	07/11/19	-	6	CITY OF ROCKFORD
75	031	044	031	043	S CENTRAL AVE	8	200.6	2	R		BP	07/10/19	-	5	CITY OF ROCKFORD
76	034	024	034	025	S.Winnebago Street	8	398.3	6	R		BP	09/24/18	-	6	CITY OF ROCKFORD
77	038	044	038	042	402 Highland Avenue	8	182.0	4	R	I/I	BP	01/13/17	-	7	CITY OF ROCKFORD
78	038	045	038	044	419 Highland Avenue	8	150.5	4	R	I/I	BP	01/13/17	-	7	CITY OF ROCKFORD
79	038	046	038	045	427 Highland Avenue	8	149.7	4	R	I/I	BP	01/13/17	-	7	CITY OF ROCKFORD
80	038	050	038	049	120 Highland Avenue	8	349.6	10	R	I/I	BP	04/12/17	-	7	CITY OF ROCKFORD
81	040	040	040	039	315 Oak Knolls Avenue	8	300.1	8	R		BP	10/28/10	-	7	CITY OF ROCKFORD
82	040	041	040	040	235 Oak Knolls Avenue	8	324.3	9	R		BP	10/28/10	-	7	CITY OF ROCKFORD
83	040	081	040	075	2704 Oak Gove Ave	8	282.9	5	R		BP	08/27/19	-	7	CITY OF ROCKFORD
84	040	082	040	081	2610 Oak Grove Ave	8	265.6	6	R		BP	08/27/19	-	7	CITY OF ROCKFORD
85	040	092	040	091	131 N OAK KNOLLS AVE	8	421.4	11	R		BP	11/27/19	-	7	CITY OF ROCKFORD
86	040	095	040	094	404 N OAK KNOLLS AVE	8	298.5	10	R		BP	11/27/19	-	7	CITY OF ROCKFORD
87	041	014	041	013	4219 State Street	8	175.7	0	R		BP	06/28/16	EASEMENT	8	EASEMENT
88	041	024	041	023	619 Parkside Drive	8	302.5	8	R		BP	01/08/16	-	8	CITY OF ROCKFORD
89	041	027	041	025	515 Blenheim Dr	8	361.3	6	R	I/I	BP	02/11/16	-	8	CITY OF ROCKFORD
90	041	028	041	027	602 Blenheim Dr	8	179.1	3	R		BP	02/11/16	-	8	CITY OF ROCKFORD
91	041	039	041	137	610 Hawthorne Avenue	8	185.8	2	R			04/19/12	EASEMENT	7	CITY OF ROCKFORD
92	041	040	041	039	520 Hawthorne Avenue	8	130.5	3	R			04/20/12	EASEMENT	7	EASEMENT
93	041	043	041	042	616 Blenheim Dr	8	300.1	5		I/I		02/29/16	-	8	CITY OF ROCKFORD
94	041	044	041	041	520 Emerson Dr	8	222.1	4	R	I/I	BP	02/24/16	-	8	CITY OF ROCKFORD

Item No.	UP Basin	UP MH	DN Basin	DN MH	Location	Pipe Dia. (INCH)	Length (FT)	Service Reinstatements (EACH)	Roots (R)	Inflow/ Infiltration (I/I)	Broken Pipe or Cracks (BP)	Date Last Televised	Access Concerns (A)	MAP #	Roadway Jurisdiction
95	041	057	041	056	Alpine Road	8	304.1	6	R		BP	08/25/16	-	8	CITY OF ROCKFORD
96	041	058	041	057	Center Street	8	365.0	7	R		BP	06/28/16	-	8	CITY OF ROCKFORD
97	041	061	041	053	Larson Avenue	8	253.6	2	R			05/02/16	-	8	CITY OF ROCKFORD
98	041	062	041	061	4407 Larson Avenue	8	220.2	4	R			04/27/16	-	8	CITY OF ROCKFORD
99	041	065	041	064	900 Kenmore Road	8	114.1	1	R	11		04/22/16	-	8	CITY OF ROCKFORD
100	041	067	041	066	1111 Kenmore Road	8	268.5	7	R			04/06/16	-	8	CITY OF ROCKFORD
101	041	069	041	068	908 Shenandoah Avenue	8	204.0	5	R		BP	04/08/10	-	8	CITY OF ROCKFORD
102	041	071	041	068	932 Shenandoah Avenue	8	78.3	0	R		BP	04/08/10	-	8	CITY OF ROCKFORD
103	041	073	041	072	1114 Shenandoah Avenue	8	255.2	8	R		BP	09/10/19	-	8	CITY OF ROCKFORD
104	041	074	041	073	SHENANDOAH AVE	8	255.8	6	R		BP	09/10/19	-	8	CITY OF ROCKFORD
105	041	078	041	076	1113 Kenmore Road	8	172.7	5	R			04/05/16	-	8	CITY OF ROCKFORD
106	041	082	041	081	4212 Larson Avenue	8	229.9	2	R		BP	04/05/16	-	8	CITY OF ROCKFORD
107	041	094	041	093	Oak Grove Avenue	8	278.7	5	R			07/16/18	-	7	CITY OF ROCKFORD
108	041	095	041	094	Oak Grove Avenue	8	179.8	4	R			05/02/16	-	7	CITY OF ROCKFORD
109	042	007	042	006	Pierpont Avenue & Green Street	8	315.4	4	R		BP	02/26/16	-	9	CITY OF ROCKFORD
110	042	008	042	007	Pierpont Avenue & Chestnut Street	8	355.5	5	R			02/15/11	-	9	CITY OF ROCKFORD
111	042	009	042	008	Pierpont Avenue & Elm Street	8	395.2	5	R		BP	02/15/11	-	9	CITY OF ROCKFORD
112	042	010	042	009	Pierpont Avenue & Elm Street	8	339.3	6	R			02/01/11	-	9	CITY OF ROCKFORD
113	042	017	042	016	426 Lexington Avenue	8	309.2	8	R		BP	05/09/11	-	9	CITY OF ROCKFORD
114	042	023	042	020	Elm Street & Concord Avenue	8	356.0	4	R			02/15/11	-	9	CITY OF ROCKFORD
115	042	049	042	048	223 MC Lain Avenue	8	352.5	4	R		BP	03/03/11	-	9	CITY OF ROCKFORD
116	042	053	042	052	324 Springfield Avenue	8	199.9	2	R			04/20/11	-	9	CITY OF ROCKFORD
117	042	054	042	053	Springfield Avenue (Service Road)	8	200.0	2	R			04/20/11	-	9	CITY OF ROCKFORD
118	042	056	042	055	207 Springfield Avenue (Service Road)	8	351.7	6	R		BP	04/20/11	-	9	CITY OF ROCKFORD
119	042	096	042	095	738 Trenton Avenue	8	300.7	8	R		BP	07/15/11	-	9	CITY OF ROCKFORD
120	042	097	042	096	Trenton Avenue	8	268.1	5	R		BP	07/14/11	-	9	CITY OF ROCKFORD
121	042	102	042	101	629 Newport Avenue	8	272.2	3	R			01/14/01	-	9	CITY OF ROCKFORD
122	042	108	042	107	Pierpont Avenue	8	259.6	1	R			02/15/11	-	5	CITY OF ROCKFORD
123	042	057B	042	057	Lexington Avenue	8	382.4	5	R		BP	09/25/15	-	9	ROCKFORD TOWNSHIP
124	043	028	043	027	Greenview Ave	8	214.5	5	R		BP	06/06/18	-	9	ROCKFORD TOWNSHIP
125	043	055	043	026	Preston St	8	321.7	4	R		BP	06/04/18	-	9	ROCKFORD TOWNSHIP
126	043	056	043	055	601 Vista Ter	8	265.1	6	R		BP	06/04/18	-	9	ROCKFORD TOWNSHIP
127	043	057	043	056	455 Vista Ter	8	264.9	3	R		BP	06/04/18	-	9	ROCKFORD TOWNSHIP
128	045	024	045	023	Elm Street	8	279.5	4	R		BP	09/19/18	-	9	CITY OF ROCKFORD
129	045	054	045	053	224 N. Day Avenue	8	237.5	6	R		BP	09/05/18	-	9	CITY OF ROCKFORD
130	046	005	046	004	Green Street	8	209.5	0	R		BP	12/07/12	-	6	CITY OF ROCKFORD
131	046	006	046	005	Green Street	8	129.3	2	R		BP	12/07/12	-	6	CITY OF ROCKFORD
132	046	007	046	005	Green Street	8	197.2	0	R		BP	12/10/12	EASEMENT	6	CITY OF ROCKFORD
133	048	014	048	012	1515 GREENMOUNT ST	8	248.8	2	R		BP	10/30/19	-	7	CITY OF ROCKFORD
134	048	030	048	029	N PROSPECT ST	8	234.7	0	R		BP	11/15/19	-	7	CITY OF ROCKFORD
135	048	053	048	052	731 GARDINER AVE	8	249.3	7	R		BP	11/07/19	-	7	CITY OF ROCKFORD
136	048	057	048	056	814 N HIGHLAND AVE	8	194.1	6	R		BP	11/07/19	-	7	CITY OF ROCKFORD
137	048	067	048	025	625 SMITH AVE	8	364.6	6	R		BP	11/05/19	-	7	CITY OF ROCKFORD
138	050	008	050	002	Greenwood Avenue	8	304.6	0	R	11	BP	09/16/19	-	7	CITY OF ROCKFORD
139	050	011	050	010	423 DAWSON AVE	8	201.6	8	R		BP	11/21/19	-	7	CITY OF ROCKFORD
140	050	020	050	019	JAMES AVE	8	232.2	8	R	11	BP	12/09/19	-	7	CITY OF ROCKFORD
141	050	021	050	020	James Avenue	8	260.0	8	R		BP	12/09/19	-	7	CITY OF ROCKFORD

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142	050	046	050	045	HIGHVIEW AVE	8	322.8	8	R		BP	12/04/19	-	7	CITY OF ROCKFORD
143	050	054	050	053	602 JAMES AVE	8	227.7	7	R			12/13/19	-	7	CITY OF ROCKFORD
144	050	079	050	078	Calvin Park Blvd	8	255.4	4	R		BP	12/06/19	-	7	CITY OF ROCKFORD
145	050	080	050	079	CALVIN PARK BLVD	8	260.0	3	R		BP	12/06/19	-	7	CITY OF ROCKFORD
146	050	081	050	080	520 CALVIN PARK BLVD	8	232.3	3	R		BP	12/06/19	-	7	CITY OF ROCKFORD
147	050	082	050	081	CALVIN PARK BLVD	8	232.9	3	R			12/06/19	-	7	CITY OF ROCKFORD
148	050	083	050	082	CALVIN PARK BLVD	8	243.7	3	R			12/06/19	-	7	CITY OF ROCKFORD
149	050	085	050	084	Calvin Park Blvd	8	257.3	2	R		BP	03/31/05	-	7	CITY OF ROCKFORD
150	050	086	050	085	CALVIN PARK BLVD	8	259.7	2	R		BP	12/05/19	-	7	CITY OF ROCKFORD
151	050	087	050	086	Calvin Park Blvd	8	232.4	1	R		BP	12/05/19	-	7	CITY OF ROCKFORD
152	050	088	050	087	Calvin Park Blvd & Jackson Street	8	234.3	3	R		BP	12/05/19	-	7	CITY OF ROCKFORD
153	050	089	050	088	CALVIN PARK BLVD	8	243.3	3	R		BP	12/05/19	-	7	CITY OF ROCKFORD
154	050	095	050	094	503 N VALE AVE	8	379.2	7	R			11/25/19	-	7	CITY OF ROCKFORD
155	051	002	052	097	Guilford Road (Easement)	8	547.8	0	R	LI	BP	12/06/19	EASEMENT	7	CITY OF ROCKFORD
156	051	003	051	002	Guilford Road (Easement)	8	220.6	0	R		BP	10/21/04	EASEMENT	7	EASEMENT
157	051	006	051	005	Winthrop Lane	8	171.6	3	R			08/23/04	-	7	CITY OF ROCKFORD
158	051	007	051	006	Corbridge Lane (Easement)	8	312.0	4	R		BP	12/05/19	-	7	CITY OF ROCKFORD
159	051	010	051	003	Guilford Road & Winthrop Lane	8	222.1	0	R		BP	10/21/04	EASEMENT	7	CITY OF ROCKFORD
160	051	013	051	012	Stratford Avenue	8	270.0	7	R		BP	12/11/19	-	7	CITY OF ROCKFORD
161	051	014	051	013	STRATFORD AVE	8	271.1	7	R		BP	12/11/19	-	7	CITY OF ROCKFORD
162	051	023	051	022	Winthrop Lane & Pioneer Drive	8	225.1	6	R			09/08/06	-	7	CITY OF ROCKFORD
163	051	029	051	028	Winthrop Lane & Burmout Road	8	218.7	3	R			12/16/19	-	11	CITY OF ROCKFORD
164	051	030	051	029	Winthrop Lane	8	227.5	4	R			12/16/19	-	11	CITY OF ROCKFORD
165	051	033	051	032	1004 LUTHER AVE	8	217.0	7	R		BP	12/13/19	-	7	CITY OF ROCKFORD
166	051	034	051	033	Luther Avenue & Pioneer Drive	8	376.0	13	R		BP	12/13/19	-	7	CITY OF ROCKFORD
167	051	035	051	034	Luther Avenue	8	393.0	11	R			09/04/19	-	7	CITY OF ROCKFORD
168	051	046	051	020	Brendenwood Road & Stratford Avenue	8	103.7	0	R			12/18/19	-	7	CITY OF ROCKFORD
169	051	049	051	048	1008 WESTCHESTER DR	8	265.9	7	R		BP	12/16/19	-	7	CITY OF ROCKFORD
170	051	071	051	070	423 WESTCHESTER DR	8	328.2	6	R		BP	11/20/19	-	7	CITY OF ROCKFORD
171	052	003	052	002	(Easement)	8	182.0	1	R		BP	04/03/06	EASEMENT	7	CITY OF ROCKFORD
172	052	109	052	108	Cardinal Lane	8	293.7	7	R		BP	04/23/19	-	7	CITY OF ROCKFORD
173	052	110	052	109	Skylark Drive	8	282.1	5	R		BP	04/23/19	-	7	CITY OF ROCKFORD
174	052	113	052	112	611 Skylark Drive	8	219.2	5	R		BP	04/23/19	-	7	CITY OF ROCKFORD
175	052	116	052	126	114 Hilton Avenue	8	212.6	3	R		BP	10/01/08	EASEMENT	7	CITY OF ROCKFORD
176	054	023	054	022	Irving Avenue	8	331.5	7	R		BP	08/26/13	-	6	CITY OF ROCKFORD
177	055	035	055	034	609 Albert Ave	8	182.7	6	R		BP	09/03/13	-	9	CITY OF ROCKFORD
178	056	004	056	003	Sherman Avenue	8	243.0	7	R		BP	06/27/05	-	10	CITY OF ROCKFORD
179	056	005	056	004	Sherman Avenue & Furman Street	8	243.5	4	R		BP	06/27/05	-	10	CITY OF ROCKFORD
180	056	019	056	018	Furman Street	8	95.6	2	R		BP	07/07/11	-	10	CITY OF ROCKFORD
181	056	020	056	017	1331 Ashland Avenue	8	65.4	0	R		BP	07/08/11	-	10	CITY OF ROCKFORD
182	058	100	058	035	W. Jefferson Avenue	8	32.7	0	R		BP	06/25/18	-	6	IDOT
183	060	027	060	026	Woodlawn Avenue	8	231.5	7	R		BP	09/04/18	-	6	CITY OF ROCKFORD
184	061	018	061	101	1144 N. Church Street	8	266.8	10	R		BP	10/01/18	-	10	CITY OF ROCKFORD
185	062	069	062	068	HARLEM BLVD	8	280.5	6	R		BP	04/17/19	-	11	CITY OF ROCKFORD
186	065	018	065	070	2615 Pelham Road	8	165.1	3	R		BP	09/21/12	EASEMENT	11	CITY OF ROCKFORD
187	065	041	065	040	1605 Winthrop Lane	8	139.6	3	R		BP	09/19/12	-	11	CITY OF ROCKFORD
188	066	032	066	031	1321 Chelsea Avenue	8	110.9	2	R		BP	07/29/14	-	11	CITY OF ROCKFORD

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189	066	033	066	029	Brendenwood Road	8	360.1	5	R	UI	BP	11/09/12	-	7	CITY OF ROCKFORD
190	066	035	066	034	1316 Arden Avenue	8	318.3	8	R		BP	07/24/14	-	7	CITY OF ROCKFORD
191	066	089	066	087	1115 Sterling Drive	8	291.2	5	R	UI	BP	08/11/14	-	8	CITY OF ROCKFORD
192	067	006	067	005	Irving Avenue	8	231.4	6	R		BP	11/10/15	-	10	CITY OF ROCKFORD
193	067	007	067	006	915 Irving Avenue	8	128.6	3	R		BP	11/10/15	-	10	CITY OF ROCKFORD
194	067	008	067	007	908 Irving Avenue	8	129.3	2	R		BP	11/10/15	-	10	CITY OF ROCKFORD
195	067	047	067	046	2115 Arthur Avenue	8	226.2	7	R		BP	10/29/15	-	9	CITY OF ROCKFORD
196	068	023	068	022	3227 Parkside Ave	8	181.9	6	R		BP	03/04/20	-	10	CITY OF ROCKFORD
197	068	026	068	025	2120 Parkside Ave	8	234.5	8	R		BP	03/04/20	-	10	CITY OF ROCKFORD
198	068	030	068	029	Parkside Avenue	8	199.9	3	R		BP	08/13/15	-	10	CITY OF ROCKFORD
199	069	011	069	010	1619 Pauline Ave	8	177.9	6	R		BP	02/28/18	-	10	CITY OF ROCKFORD
200	069	048	069	031	Henry Street & Yonge Street	8	252.8	7	R		BP	10/10/17	-	10	CITY OF ROCKFORD
201	070	005	070	004	714 King Street	8	205.0	6	R		BP	11/23/16	-	10	CITY OF ROCKFORD
202	070	098	070	096	1715 Tacoma Ave	8	182.2	7	R		BP	06/07/17	-	10	CITY OF ROCKFORD
203	071	067	071	066	1417 Burton Street	8	191.0	2	R		BP	03/24/17	-	10	CITY OF ROCKFORD
204	072	105	072	104	Brown Avenue	8	208.8	1	R		BP	05/08/06	-	11	CITY OF ROCKFORD
205	072	108	072	106	Melrose Street	8	291.5	8	R		BP	06/17/08	-	11	CITY OF ROCKFORD
206	072	123	072	122	Wallace Street	8	334.9	9	R		BP	08/01/12	-	11	CITY OF ROCKFORD
207	072	125	072	122	1000 Van Wie Avenue	8	247.4	3	R		BP	08/02/12	-	11	CITY OF ROCKFORD
208	072	182	072	069	Logan Street	8	220.3	3	R		BP	02/03/05	-	11	CITY OF ROCKFORD
209	075	004	075	003	2517 Elder Lane	8	311.9	2	R		BP	10/17/17	-	12	ROCKFORD TOWNSHIP
210	075	012	075	011	3311 Brookview Rd	8	297.4	0	R			11/08/17	-	12	ROCKFORD TOWNSHIP
211	075	013	075	012	Brookview Rd	8	217.6	1	R		BP	11/07/17	-	12	ROCKFORD TOWNSHIP
212	075	018	075	015	Valley Rd	8	179.5	1	R			11/07/17	-	12	ROCKFORD TOWNSHIP
213	075	023	075	022	2015 Glenview Rd	8	221.2	2	R		BP	12/08/17	EASEMENT	12	EASEMENT
214	075	026	075	024	Hillside Dr	8	313.5	3	R		BP	11/01/17	-	12	ROCKFORD TOWNSHIP
215	075	033	075	032	3620 Brookview Rd	8	89.1	0	R		BP	12/03/17	EASEMENT	12	EASEMENT
216	075	036	075	035	3625 Brookview Rd	8	228.1	1	R			12/04/17	EASEMENT	12	ROCKFORD TOWNSHIP
217	075	037	075	036	3620 Fairway	8	195.6	2	R		BP	12/05/17	EASEMENT	12	EASEMENT
218	075	059	075	058	Pinecrest Rd	8	167.2	1	R			11/06/17	-	12	ROCKFORD TOWNSHIP
219	075	060	075	059	Pinecrest Rd	8	152.0	0	R		BP	11/06/17	-	12	ROCKFORD TOWNSHIP
220	075	061	075	060	Pinecrest Rd	8	155.8	0	R		BP	11/06/17	-	12	ROCKFORD TOWNSHIP
221	075	073	075	072	1916 Greenfield Ln	8	312.4	4	R		BP	10/18/17	-	12	ROCKFORD TOWNSHIP
222	075	083	075	082	2203 Edgebrook Dr	8	181.0	2	R			10/30/17	EASEMENT	12	ROCKFORD TOWNSHIP
223	075	084	075	083	2215 Edgebrook Dr	8	229.3	6	R		BP	10/31/17	EASEMENT	12	EASEMENT
224	075	087	075	086	4112 Pinecrest Rd	8	269.0	1	R			10/23/17	-	12	CITY OF ROCKFORD
225	075	096	075	095	N Alpine Rd	8	305.0	1	R		BP	11/08/17	-	12	CITY OF ROCKFORD
226	075	127	075	126	Highest Road	8	325.0	1	R		BP	11/02/17	-	12	CITY OF ROCKFORD
227	075	135	075	134	3838 Highest Road	8	295.4	7	R		BP	10/24/17	-	12	ROCKFORD TOWNSHIP
228	076	030	076	029	3314 COLLINS AVE	8	200.5	2	R			10/01/19	-	10	CITY OF ROCKFORD
229	076	031	076	030	COLLINS AVE	8	227.2	4	R		BP	10/01/19	-	10	CITY OF ROCKFORD
230	077	003	077	002	3108 Arcadia Terrace	8	247.0	1	R			10/23/08	-	10	CITY OF ROCKFORD
231	077	004	077	003	3020 Arcadia Terrace	8	248.3	4	R			10/23/08	-	10	CITY OF ROCKFORD
232	077	008	077	007	2818 Arcadia Terrace	8	181.9	2	R			10/29/08	-	10	CITY OF ROCKFORD
233	077	009	077	008	2803 Arcadia Terrace	8	177.8	3	R			10/24/08	-	10	CITY OF ROCKFORD
234	077	011	077	010	3108 Arcadia Terrace	8	255.1	2	R			10/24/08	-	10	CITY OF ROCKFORD
235	077	029	077	028	Gladstone Avenue	8	250.9	8	R			05/05/03	-	10	CITY OF ROCKFORD

Item No.	UP Basin	UP MH	DN Basin	DN MH	Location	Pipe Dia. (INCH)	Length (FT)	Service Reinstatements (EACH)	Roots (R)	Inflow/ Infiltration (I/I)	Broken Pipe or Cracks (BP)	Date Last Televised	Access Concerns (A)	MAP #	Roadway Jurisdiction
236	077	031	077	030	Gladstone Avenue & Elmwood Street	8	201.6	6	R			07/26/05	-	10	CITY OF ROCKFORD
237	077	032	077	031A	Gladstone Avenue & Grenshaw Street	8	197.9	5	R		BP	03/20/14	-	10	CITY OF ROCKFORD
238	077	069	077	068	Custer Avenue & Grenshaw Street	8	200.2	6	R			10/14/08	-	10	CITY OF ROCKFORD
239	077	070	077	069	2816 Custer Avenue	8	176.4	6	R			10/14/08	-	10	CITY OF ROCKFORD
240	077	074	077	073	2615 Custer Avenue	8	185.9	5	R		BP	10/15/08	-	10	CITY OF ROCKFORD
241	077	085	077	078	Kilburn Avenue & Blackstone Avenue	8	154.7	3	R			10/30/08	-	10	IDOT
242	077	092	077	091	Kenmore Avenue & Greenshaw Street	8	243.8	8	R			10/10/08	-	10	CITY OF ROCKFORD
243	077	102	077	101	2819 Knight Avenue	8	247.6	7	R			10/09/08	-	10	CITY OF ROCKFORD
244	077	103	077	102	2802 Knight Avenue	8	219.2	8	R			10/09/08	-	10	CITY OF ROCKFORD
245	077	106	077	105	3127 Arnie Avenue	8	188.2	6	R		BP	09/12/08	-	10	CITY OF ROCKFORD
246	077	031A	077	031	Gladstone Avenue	8	201.8	5	R		BP	07/26/05	-	10	CITY OF ROCKFORD
247	079	014	079	013	3105 GLENWOOD AVE	8	333.6	2		11		05/20/19	-	10	CITY OF ROCKFORD
248	079	128	079	028	Alida Street (Easement)	8	221.4	0	R		BP	03/07/01	EASEMENT	10	EASEMENT
249	079	166	079	013	3215 GLENWOOD AVE	8	109.4	0	R		BP	05/20/19	-	10	CITY OF ROCKFORD
250	080	035	080	034	Sauber Avenue	8	327.4	10	R			11/02/17	-	10	CITY OF ROCKFORD
251	080	068	080	067	1911 Bell Avenue	8	300.1	6	R		BP	11/09/17	-	10	CITY OF ROCKFORD
252	080	070	080	069	Bell Avenue	8	170.6	1	R		BP	11/09/17	-	10	CITY OF ROCKFORD
253	080	081	080	080	2012 Van Wie Avenue	8	241.7	4	R		BP	03/02/15	-	10	CITY OF ROCKFORD
254	080	084	080	066	2113 Bell Avenue	8	381.6	4	R		BP	03/02/15	-	10	CITY OF ROCKFORD
255	080	096	080	093	2211 Carney Avenue	8	275.2	6	R		BP	01/31/20	-	10	CITY OF ROCKFORD
256	080	111	080	110	1523 Overdene Avenue	8	350.2	4	R		BP	10/19/17	-	10	CITY OF ROCKFORD
257	081	005	081	004	N Main Street & Eddy Avenue	8	347.4	4	R			11/25/09	-	11	IDOT
258	081	021	081	020	Ruth Street & Deborah Avenue	8	225.3	6	R		BP	01/10/19	-	10	CITY OF ROCKFORD
259	081	022	081	021	Ruth Street & Deborah Avenue	8	249.6	8	R			01/11/19	-	10	CITY OF ROCKFORD
260	081	033	081	032	3200 LATHAM ST	8	224.7	7	R			12/19/18	-	10	CITY OF ROCKFORD
261	081	040	081	039	3212 Church Street	8	223.9	7	R			10/20/09	-	10	CITY OF ROCKFORD
262	081	041	081	040	Church Street & Deborah Avenue	8	223.9	6	R		BP	12/18/09	-	10	CITY OF ROCKFORD
263	081	042	081	041	N Church Street	8	240.6	7	R		BP	12/18/09	-	10	CITY OF ROCKFORD
264	081	043	081	035	Midway Drive	8	317.3	6	R			11/05/09	-	10	CITY OF ROCKFORD
265	081	048	081	047	(Easement)	8	146.7	0	R			10/27/09	EASEMENT	10	CITY OF ROCKFORD
266	081	049	081	047	(In Alley)	8	205.2	1	R			10/27/09	-	10	CITY OF ROCKFORD
267	081	050	081	049	Jonathan Avenue	8	199.6	3	R			10/27/09	-	10	CITY OF ROCKFORD
268	081	051	081	050	(In Alley)	8	275.3	3	R			10/27/09	-	10	CITY OF ROCKFORD
269	081	053	081	052	3035 Louise Street	8	268.8	6	R		BP	10/07/09	-	10	CITY OF ROCKFORD
270	081	054	081	053	3012 Louise Street	8	270.7	6	R		BP	10/07/09	-	10	CITY OF ROCKFORD
271	081	061	081	086	3714 Trilling Avenue	8	63.3	2	R			05/24/10	-	14	CITY OF ROCKFORD
272	081	066	081	065	3335 Sun Valley Terrace	8	79.7	0	R			11/12/09	-	11	CITY OF ROCKFORD
273	081	067	081	066	3319 Sun Valley Terrace	8	85.7	1	R			11/12/09	-	11	CITY OF ROCKFORD
274	081	068	081	067	3311 Sun Valley Terrace	8	112.7	1	R			11/12/09	-	11	CITY OF ROCKFORD
275	081	070	081	065	3351 Sun Valley Terrace	8	191.8	2	R			11/24/09	-	11	CITY OF ROCKFORD
276	081	091	081	090	27 Briar Lane	8	307.7	6	R			10/14/09	-	14	CITY OF ROCKFORD
277	081	092	081	091	49 Briar Lane	8	274.5	4	R		BP	10/14/09	-	14	CITY OF ROCKFORD
278	081	093	081	092	Briar Lane & Johns Woods Drive	8	115.1	2	R		BP	10/13/09	-	14	CITY OF ROCKFORD
279	081	097	081	095	7 Johns Woods Drive	8	350.0	6	R			10/14/09	-	14	CITY OF ROCKFORD
280	081	098	081	097	4 Johns Woods Drive	8	299.3	5	R			10/14/09	-	14	CITY OF ROCKFORD
281	081	103	081	130	950 Halsted Road	8	349.5	3	R			01/10/18	-	14	CITY OF ROCKFORD
282	081	109	081	106	Robey Avenue & Belmont Blvd	8	325.3	12	R		BP	05/24/10	-	14	CITY OF ROCKFORD

Item No.	UP Basin	UP MH	DN Basin	DN MH	Location	Pipe Dia. (INCH)	Length (FT)	Service Reinstatements (EACH)	Roots (R)	Inflow/ Infiltration (I/I)	Broken Pipe or Cracks (BP)	Date Last Televised	Access Concerns (A)	MAP #	Roadway Jurisdiction
283	081	112	081	109	3527 Robey Avenue	8	314.7	8	R		BP	10/19/09	-	14	CITY OF ROCKFORD
284	081	113	081	112	Robey Avenue	8	236.4	7	R			05/24/10	-	14	CITY OF ROCKFORD
285	081	114	081	113	3551 Robey Avenue	8	79.0	1	R		BP	10/15/09	-	14	CITY OF ROCKFORD
286	081	115	081	126	3554 Normandy Avenue	8	303.6	6	R		BP	12/21/09	-	14	CITY OF ROCKFORD
287	081	127	081	126	3504 Normandy Avenue	8	253.2	6	R		BP	10/21/09	-	14	CITY OF ROCKFORD
288	082	010	082	009	4602 Arlington Street	8	284.6	8	R	I/I	BP	07/20/09	-	11	CITY OF LOVES PARK
289	082	017	082	016	4913 Forest Grove Street	8	231.8	2	R			07/15/09	-	11	CITY OF LOVES PARK
290	082	018	082	017	4937 Forest Grove Street	8	267.5	3	R			07/14/09	-	11	CITY OF LOVES PARK
291	082	047	082	055	(Easement)	8	57.9	0	R			07/13/09	EASEMENT	11	EASEMENT
292	082	050	082	049A	216 Rose Avenue	8	326.1	6	R			07/08/09	-	11	CITY OF LOVES PARK
293	082	051	082	050	232 Rose Avenue	8	315.0	7	R			07/08/09	-	11	CITY OF LOVES PARK
294	082	052	082	051	Rose Avenue	8	324.4	6	R			07/08/09	-	11	CITY OF LOVES PARK
295	082	055	082	049D	(Easement)	8	241.6	0	R			07/13/09	EASEMENT	11	EASEMENT
296	082	067	082	072	Country Club Terrace	8	193.0	1	R			11/23/05	EASEMENT	11	EASEMENT
297	082	068	082	067	Country Club Terrace	8	145.1	0	R			11/23/05	-	11	CITY OF ROCKFORD
298	082	069	082	067	Country Club Terrace	8	395.7	7	R			11/23/05	-	11	CITY OF ROCKFORD
299	082	070	082	069	Country Club Terrace	8	196.4	4	R			11/23/05	-	11	CITY OF ROCKFORD
300	082	072	082	066	Country Club Terrace (Easement)	8	85.0	0	R			11/23/05	EASEMENT	11	EASEMENT
301	082	049B	082	049A	East Drive	8	249.4	8	R			07/07/09	-	11	CITY OF LOVES PARK
302	082	049C	082	049B	5425 East Drive	8	325.8	7	R			07/07/09	-	11	CITY OF LOVES PARK
303	084	051	084	050	2941 La Salle Avenue	8	323.5	7	R		BP	07/12/17	-	11	CITY OF ROCKFORD
304	084	054	084	053	2934 SUNNYSIDE DR	8	401.0	6	R			06/10/19	-	11	CITY OF ROCKFORD
305	084	069	084	068	4028 COVENTRY DR	8	217.5	1	R		BP	05/22/19	-	12	CITY OF ROCKFORD
306	085	102	085	066	3120 Ramsgate Road	8	168.9	1	R	I/I	BP	01/23/17	-	12	CITY OF ROCKFORD
307	085	114	085	113	4113 Eaton Drive	8	158.8	1	R	I/I	BP	01/23/17	-	12	CITY OF ROCKFORD
308	086	001	079	129	Alida Street	8	281.7	1	R		BP	04/24/18	-	10	CITY OF ROCKFORD
309	086	002	086	001	Alida Street	8	286.2	4	R	I/I		07/08/19	-	10	CITY OF ROCKFORD
310	086	005	086	004	2912 Cameron Avenue	8	260.2	5	R	I/I		04/24/18	-	10	CITY OF ROCKFORD
311	086	010	086	009	Sitka Lane	8	342.2	7	R		BP	05/01/17	-	10	CITY OF ROCKFORD
312	086	044	086	042	Conklin Drive	8	349.9	4	R			04/26/18	-	13	CITY OF ROCKFORD
313	086	047	086	121	2623 Lorado Lane	8	173.3	3	R		BP	06/27/12	-	13	CITY OF ROCKFORD
314	086	049	086	044	Conklin Drive	8	346.5	4	R			04/26/18	-	13	CITY OF ROCKFORD
315	086	052	086	051	2907 Carriage Lane	8	179.8	0	R		BP	04/07/16	-	13	CITY OF ROCKFORD
316	086	063	086	062	Karen Drive	8	306.0	5	R			04/30/18	-	13	CITY OF ROCKFORD
317	086	064	086	063	2628 Karen Drive	8	307.9	8	R			04/30/18	-	13	CITY OF ROCKFORD
318	086	071	086	069	Carmac Road	8	357.2	8	R			04/20/18	-	13	CITY OF ROCKFORD
319	086	075	086	074	Packard Pkwy	8	159.3	2	R			05/14/18	-	13	CITY OF ROCKFORD
320	086	077	086	075	3803 Packard Pkwy	8	129.6	1	R			05/14/18	-	13	CITY OF ROCKFORD
321	086	078	086	077	3813 Packard Pkwy	8	217.8	2	R			05/14/18	-	13	CITY OF ROCKFORD
322	086	081	086	078	Packard Pkwy	8	259.7	2	R		BP	11/30/17	-	13	CITY OF ROCKFORD
323	086	082	086	081	3363 W. Riverside Blvd	8	290.5	1	R		BP	12/05/17	-	13	CITY OF ROCKFORD
324	086	083	086	082	3365 W. Riverside Blvd	8	58.5	0	R		BP	12/05/17	-	13	CITY OF ROCKFORD
325	086	084	086	083	3285 w. Riverside Blvd	8	349.9	4	R		BP	12/05/17	-	13	CITY OF ROCKFORD
326	086	088	086	086	Packard Pkwy	8	231.9	2	R		BP	11/30/17	-	13	CITY OF ROCKFORD
327	086	089	086	086	3405 City View Dr	8	212.8	1	R		BP	11/30/17	-	13	CITY OF ROCKFORD
328	086	090	086	089	3346 City View Dr	8	363.8	7			BP	11/30/17	-	13	CITY OF ROCKFORD
329	086	095	086	094	Karen Drive	8	340.4	8	R			04/27/18	-	13	CITY OF ROCKFORD

Item No.	UP Basin	UP MH	DN Basin	DN MH	Location	Pipe Dia. (INCH)	Length (FT)	Service Reinstatements (EACH)	Roots (R)	Inflow/ Infiltration (I/I)	Broken Pipe or Cracks (BP)	Date Last Televised	Access Concerns (A)	MAP #	Roadway Jurisdiction
330	086	097	086	095	Karen Drive	8	379.2	6	R			04/27/18	-	13	CITY OF ROCKFORD
331	086	099	086	098	Carmac Rd	8	375.3	8	R			12/08/17	-	13	CITY OF ROCKFORD
332	086	104	086	102	Elva Ln	8	340.8	0	R		BP	12/08/17	-	13	CITY OF ROCKFORD
333	086	108	086	104	Elva Ln	8	264.0	3	R		BP	12/04/17	-	13	CITY OF ROCKFORD
334	086	114	086	108	Elva Ln	8	104.0	0	R		BP	12/04/17	-	13	CITY OF ROCKFORD
335	086	115	086	114	Elva Ln	8	199.5	2	R		BP	12/04/17	-	13	CITY OF ROCKFORD
336	086	116	086	114	Elva Ln	8	227.1	3	R		BP	12/04/17	-	13	CITY OF ROCKFORD
337	086	121	086	046	Lorado Lane	8	74.5	1	R			07/09/12	-	13	CITY OF ROCKFORD
338	086	133	086	103	3938 Rockton Ave	8	390.5	1	R		BP	12/05/17	-	13	CITY OF ROCKFORD
339	088	017	088	010	Huffman Blvd & Jonathan Avenue	8	336.6	5	R			02/14/20	-	10	CITY OF ROCKFORD
340	088	050	088	049	1619 Belmont Blvd	8	295.2	3	R		BP	11/08/11	-	13	CITY OF ROCKFORD
341	089	002	089	002A	Halsted Road	8	195.5	4	R		BP	08/18/05	-	10	CITY OF ROCKFORD
342	089	042	089	041	Court Street (Easement)	8	124.0	0	R		BP	08/09/05	EASEMENT	13	CITY OF ROCKFORD
343	090	042	090	040	226 Grand Avenue	8	337.9	6	R		BP	12/28/10	-	14	CITY OF LOVES PARK
344	090	045	090	044	343 Grand Avenue	8	335.0	7	R		BP	12/28/10	-	14	CITY OF LOVES PARK
345	092	032	092	031	714 River Lane	8	264.0	6	R		BP	05/26/16	-	14	CITY OF LOVES PARK
346	092	033	092	032	River Lane	8	273.3	9	R		BP	05/26/16	-	14	CITY OF LOVES PARK
347	092	058	092	057	633 Frances Avenue	8	227.6	8	R	I/I	BP	09/06/17	-	11	CITY OF LOVES PARK
348	094	183	094	184	3809 Thyme Drive	8	199.1	4	R		BP	02/23/18	-	15	CITY OF ROCKFORD
349	099	052	099	051	1226 Drexel Blvd	8	285.9	7	R		BP	05/09/13	-	14	VILLAGE OF MACHESNEY PARK
350	099	084	099	083	Venus St	8	113.8	12	R		BP	02/24/17	-	15	CITY OF LOVES PARK
351	099	296	099	092	Maple Avenue	8	265.5	1	R		BP	03/13/15	-	15	CITY OF LOVES PARK
352	100	022	100	023	2217 Winters Drive	8	155.5	0	R		BP	08/01/11	-	15	CITY OF LOVES PARK
353	100	056	100	055	4632 Cromwell Lane	8	149.1	3	R	I/I	BP	05/12/15	-	15	CITY OF LOVES PARK
354	101	037	101	036	4123 Singleton Rd	8	311.8	4	R	I/I	BP	12/14/17	-	12	CITY OF ROCKFORD
355	101	046	101	065	4115 Marsh Ave	8	354.1	6	R	I/I	BP	12/14/17	-	12	CITY OF ROCKFORD
356	133	020	133	101	4224 Maray Dr.	8	136.6	0		I/I		03/13/20	-	8	CITY OF ROCKFORD
357	133	101	133	100	Maray Dr. & Morsay Dr.	8	285.3	1		I/I		03/13/20	-	8	CITY OF ROCKFORD
358	133	102	133	020	4304 Maray Dr.	8	173.1	1		I/I		03/13/20	-	8	CITY OF ROCKFORD
359	133	103	133	102	4322 Maray Dr.	8	253.3	0		I/I		03/13/20	-	8	CITY OF ROCKFORD
360	010	027	010	026A	10th St. & 21st Ave.	9	316.0	10			BP	02/25/20	-	3	CITY OF ROCKFORD
361	010	026A	010	026	10th St. & 22nd Ave.	9	249.9	9			BP	02/26/20	-	3	CITY OF ROCKFORD

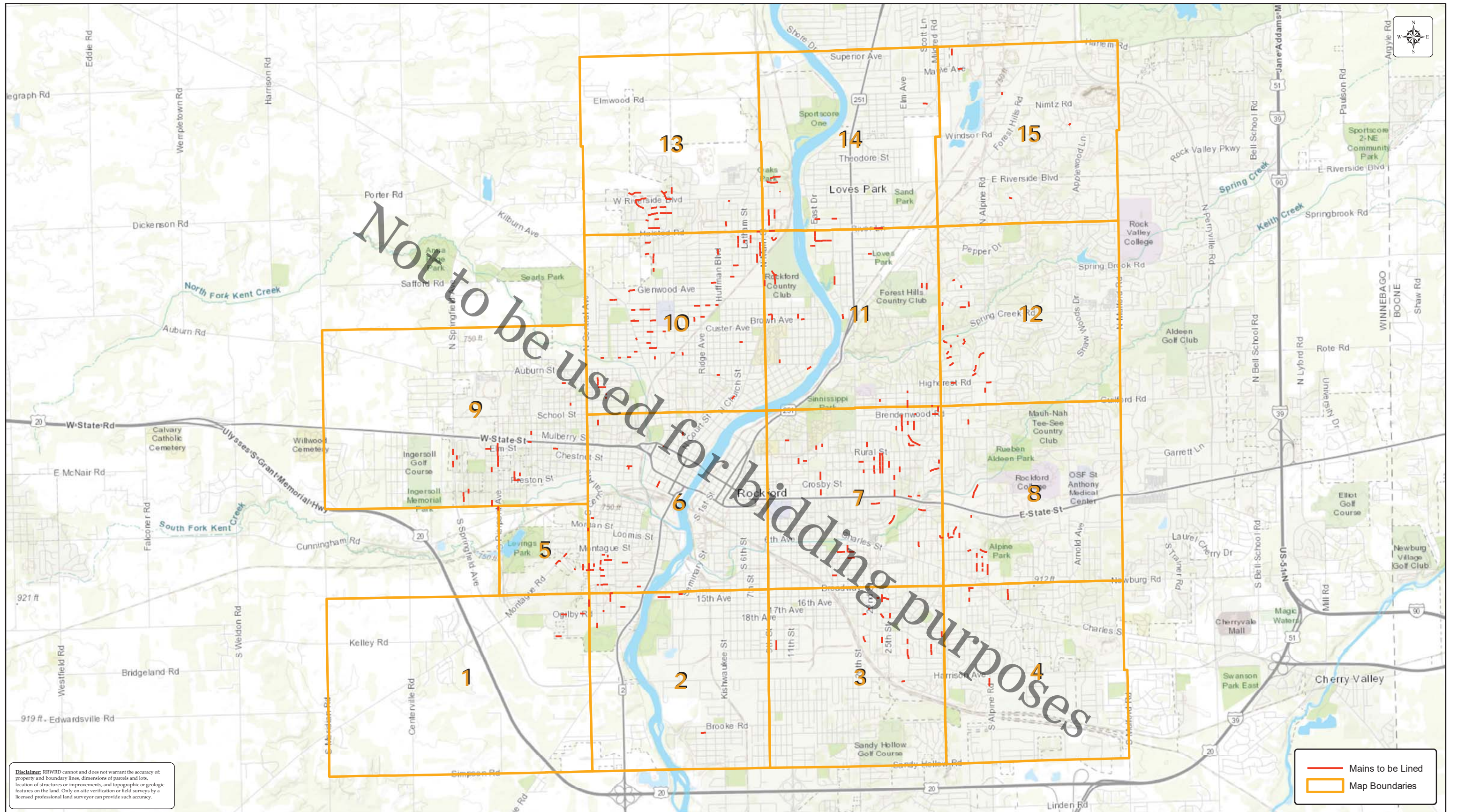
 DENOTES ITEMS REQUIRING PIPE REPAIR (BY OTHERS) SEE ARTICLE 3, PART 2 OF SPECIFICATIONS.

 ITEMS WITH NOTED INFILTRATION SHALL HAVE A REINFORCED PRE-LINER INSTALLED PRIOR TO CIPP LINING.

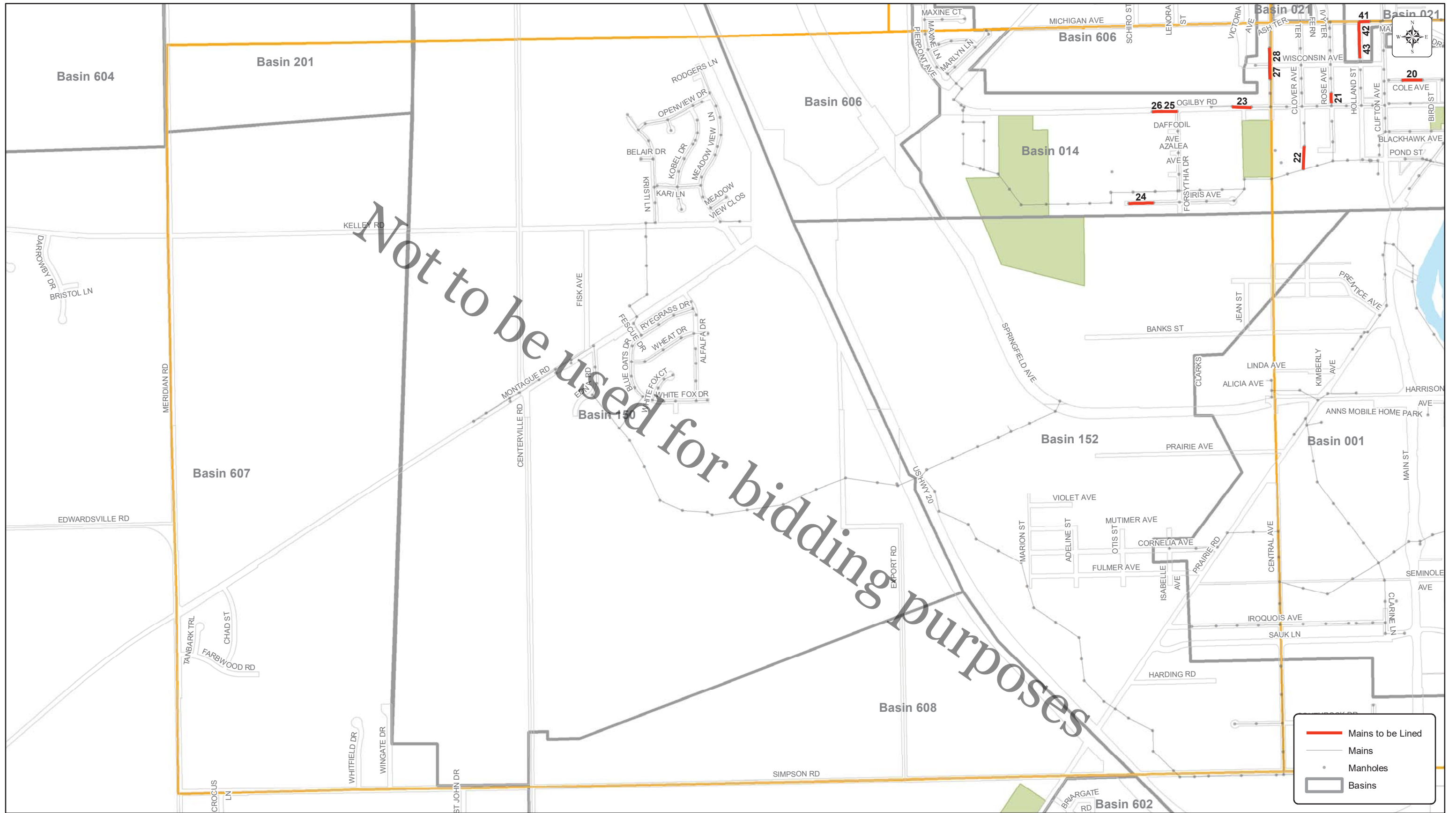
 DISTRICT WILL PREPARE AND SUBMIT IDOT UTILITY PERMIT APPLICATIONS UPON CONTRACT AWARD.

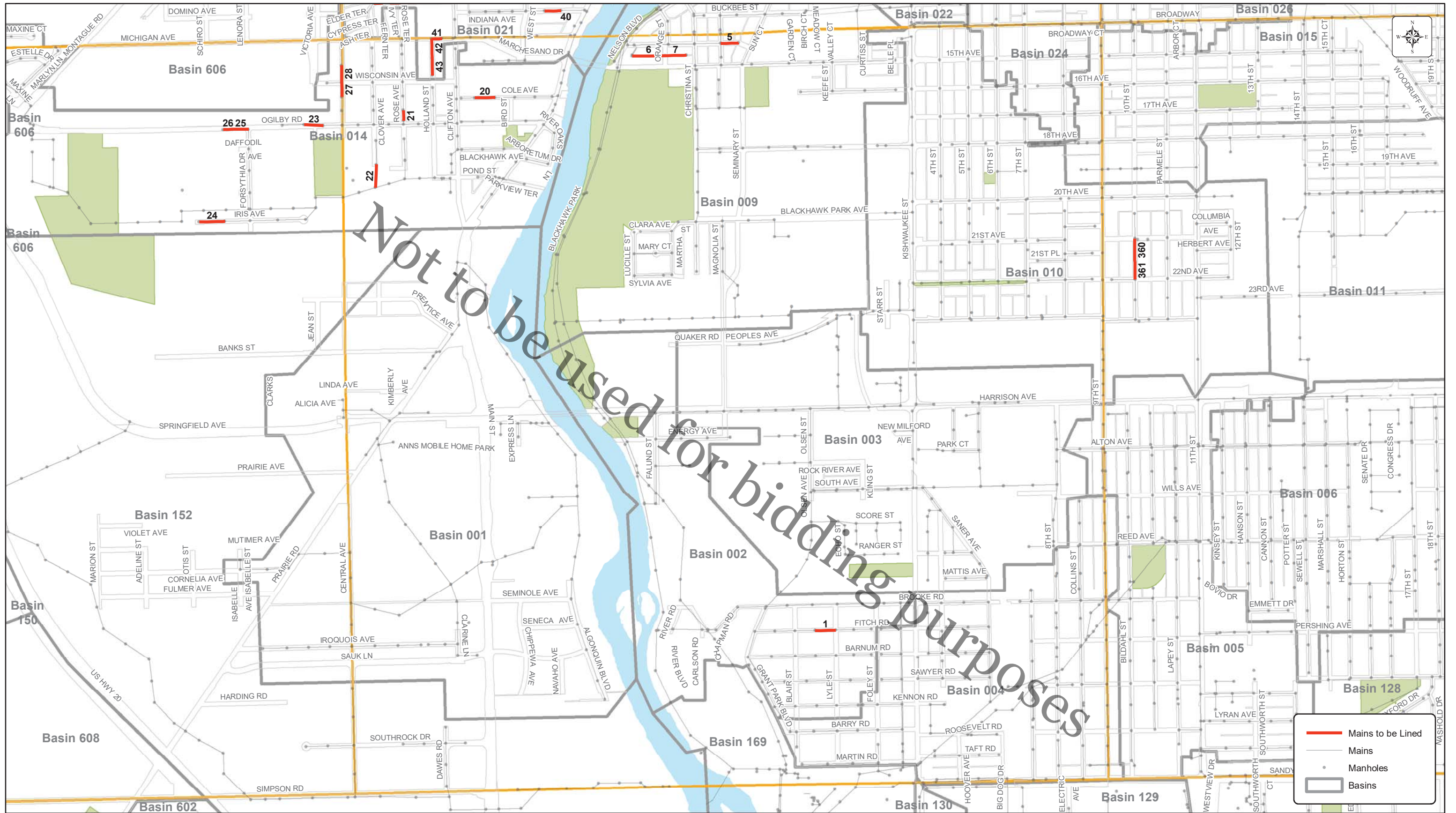
NOTE: THE DEFECTS INDICATED (I/I, R,BP) DO NOT NECESSARILY REFLECT THE CURRENT PIPE CONDITION OR RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO INSPECT THE SEWERS PRIOR TO LINING AND DETERMINE SUITABILITY TO LINE IN ACCORDANCE WITH CONTRACT DOCUMENTS.

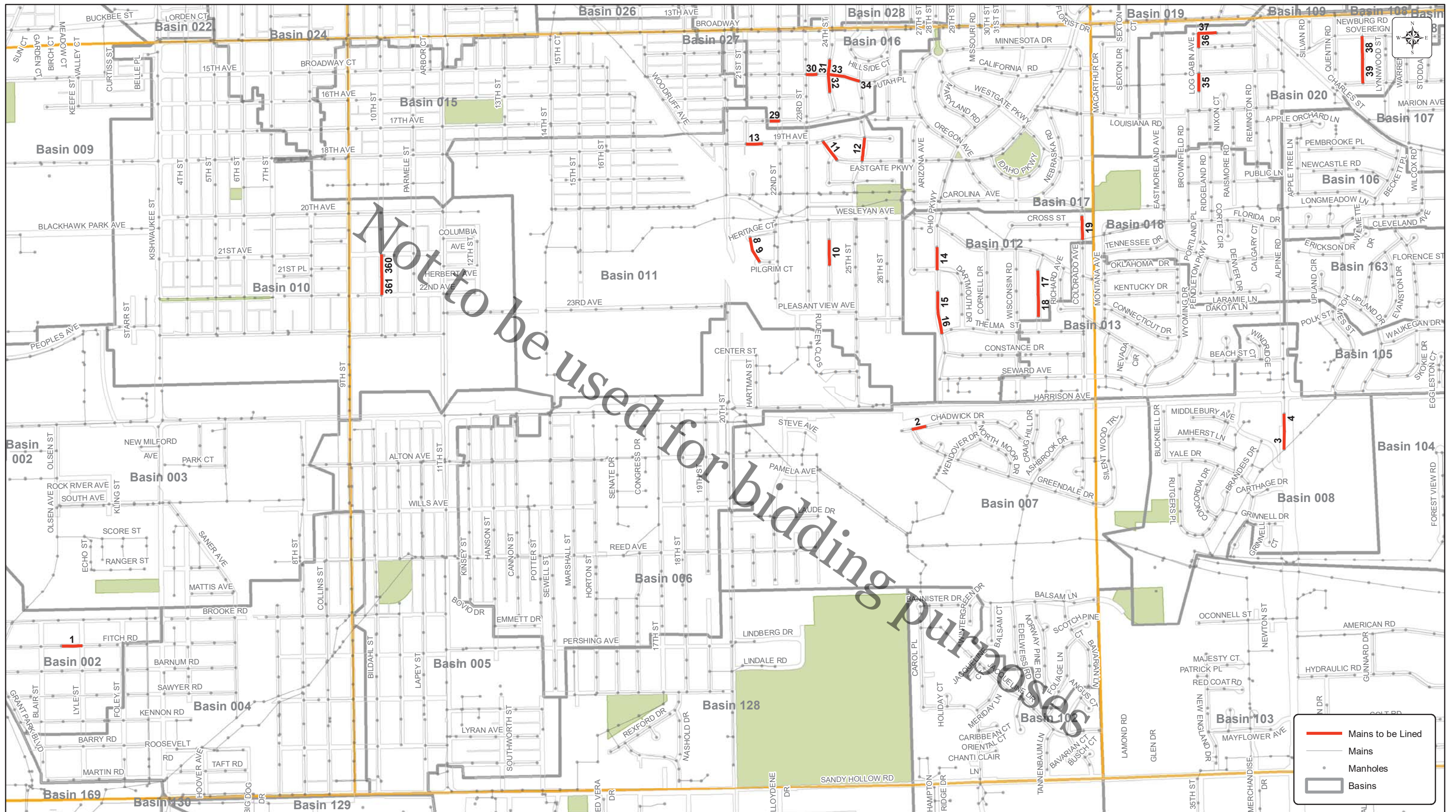
Section IV
Lining Area Maps



Map Locations

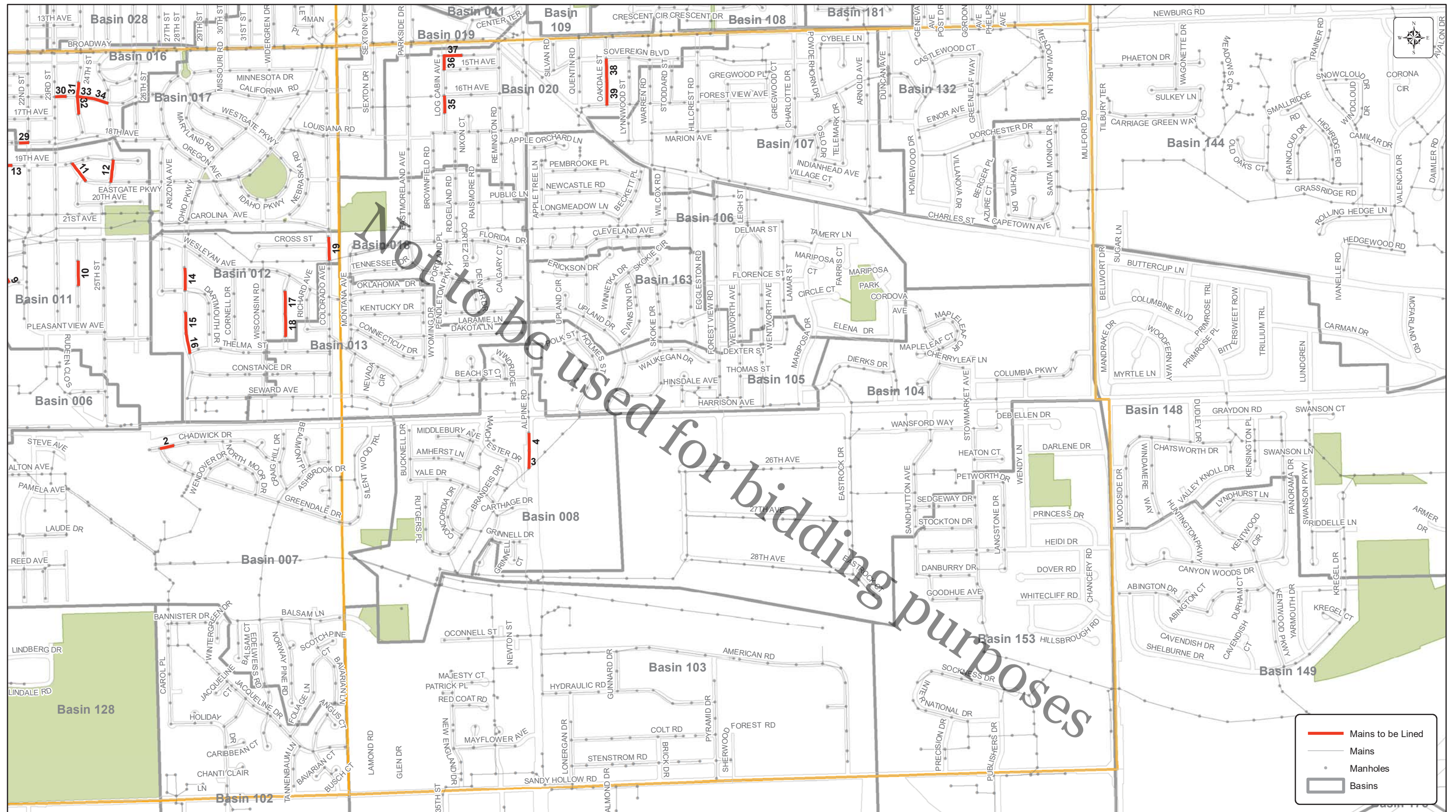






Map #3

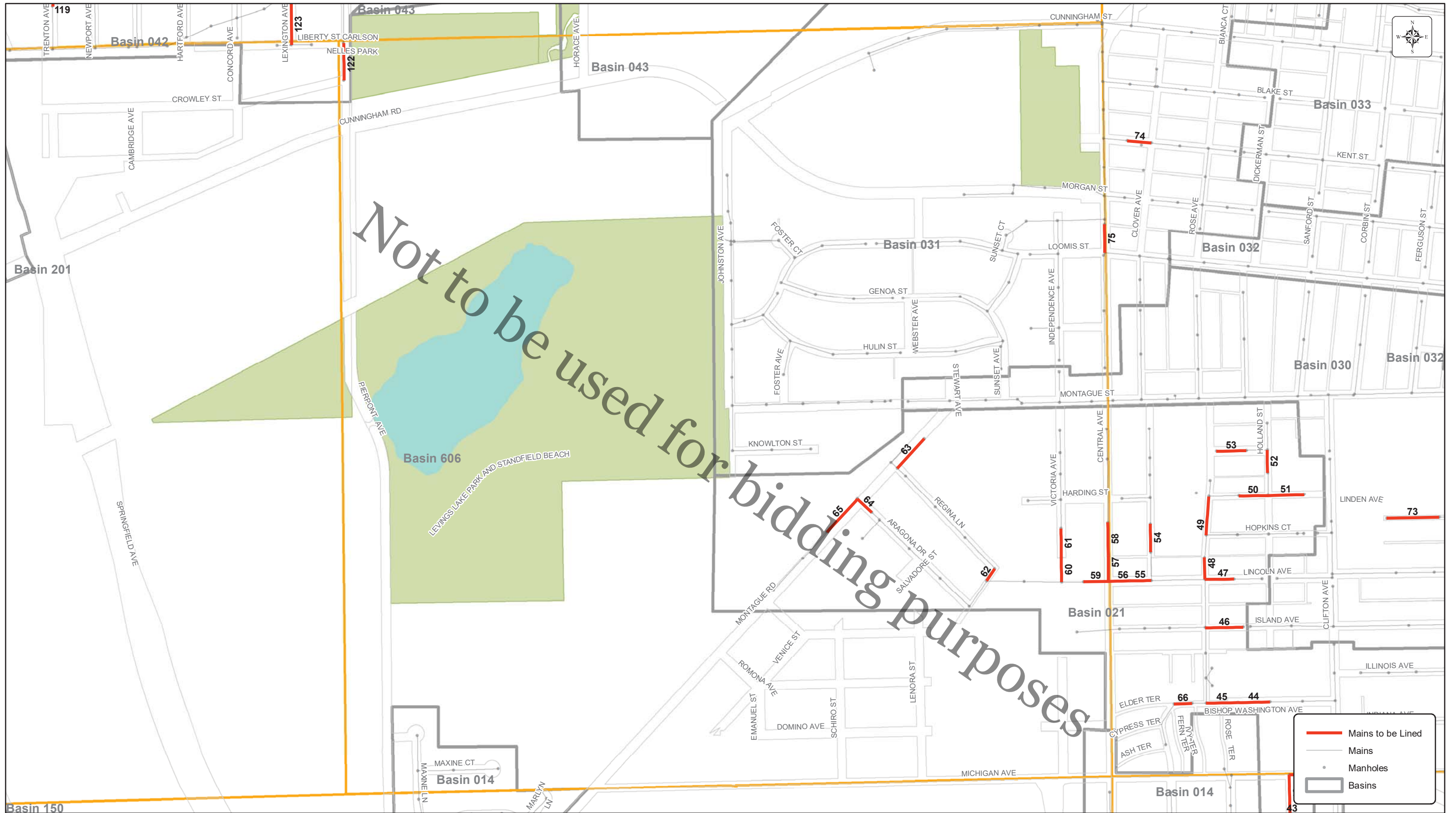


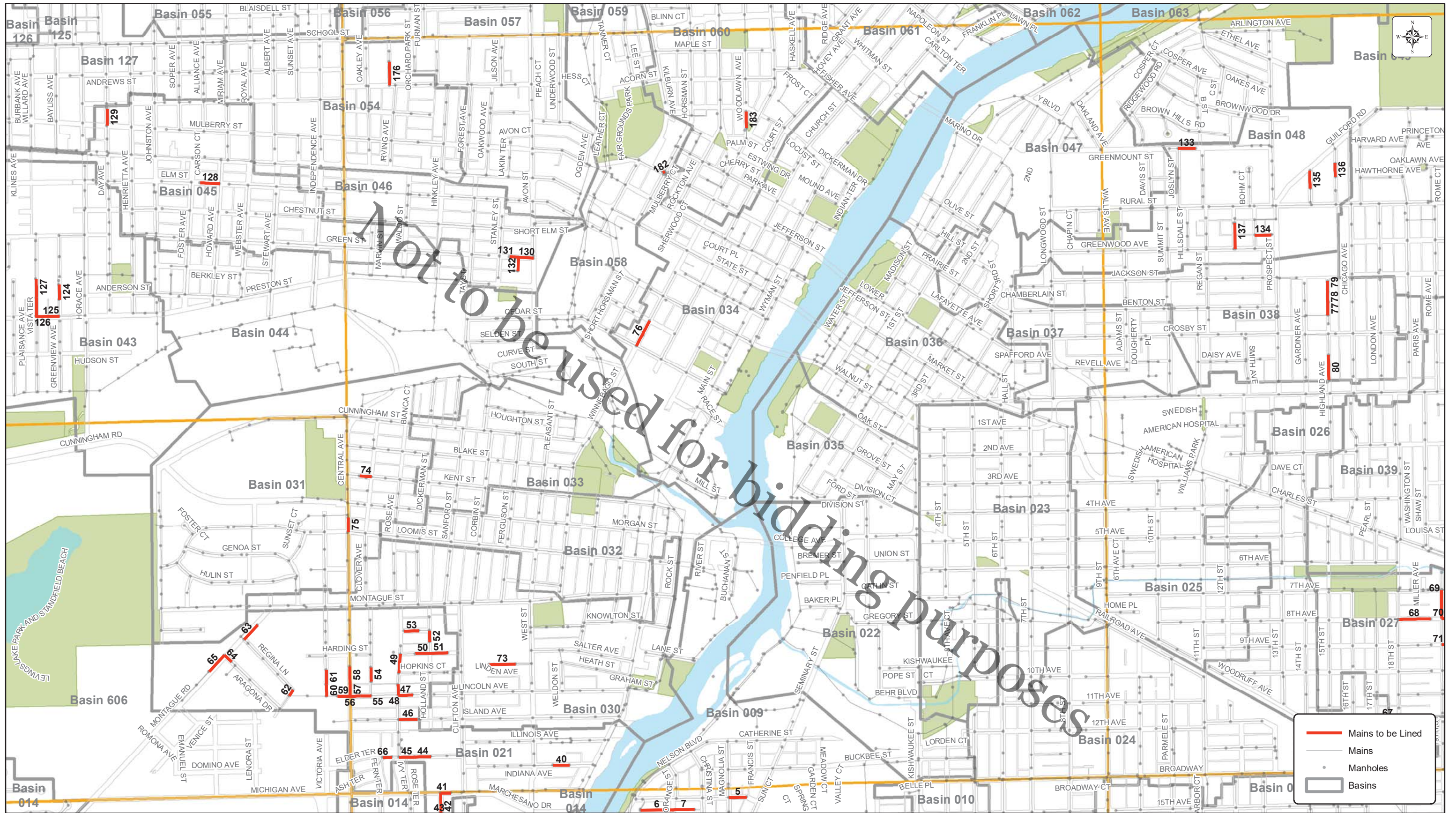


Map #4

0 625 1,250 2,500 3,750 5,000 Feet

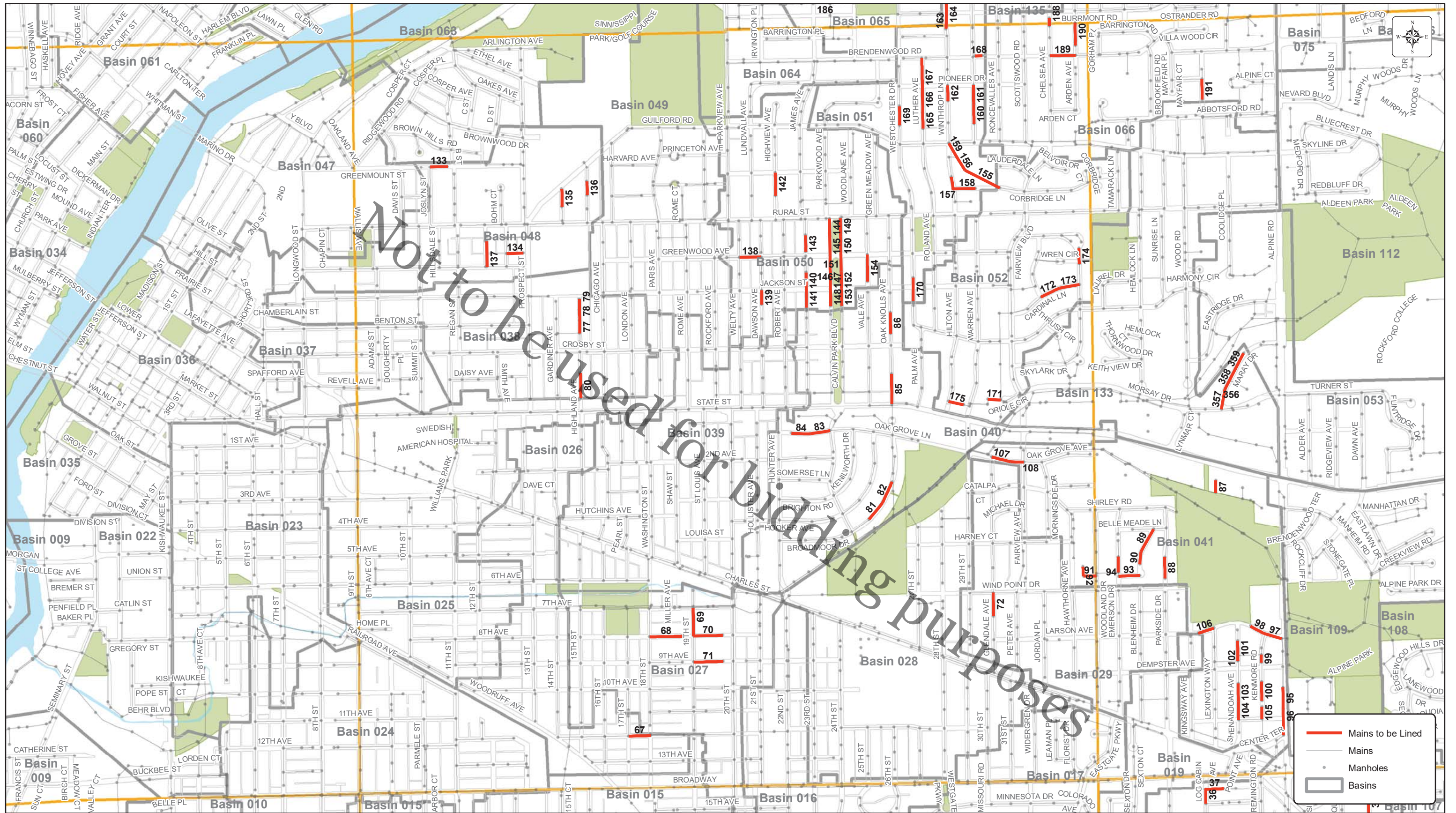
By: JK
Produced: 8/5/2020
RRWRD Engineering Department





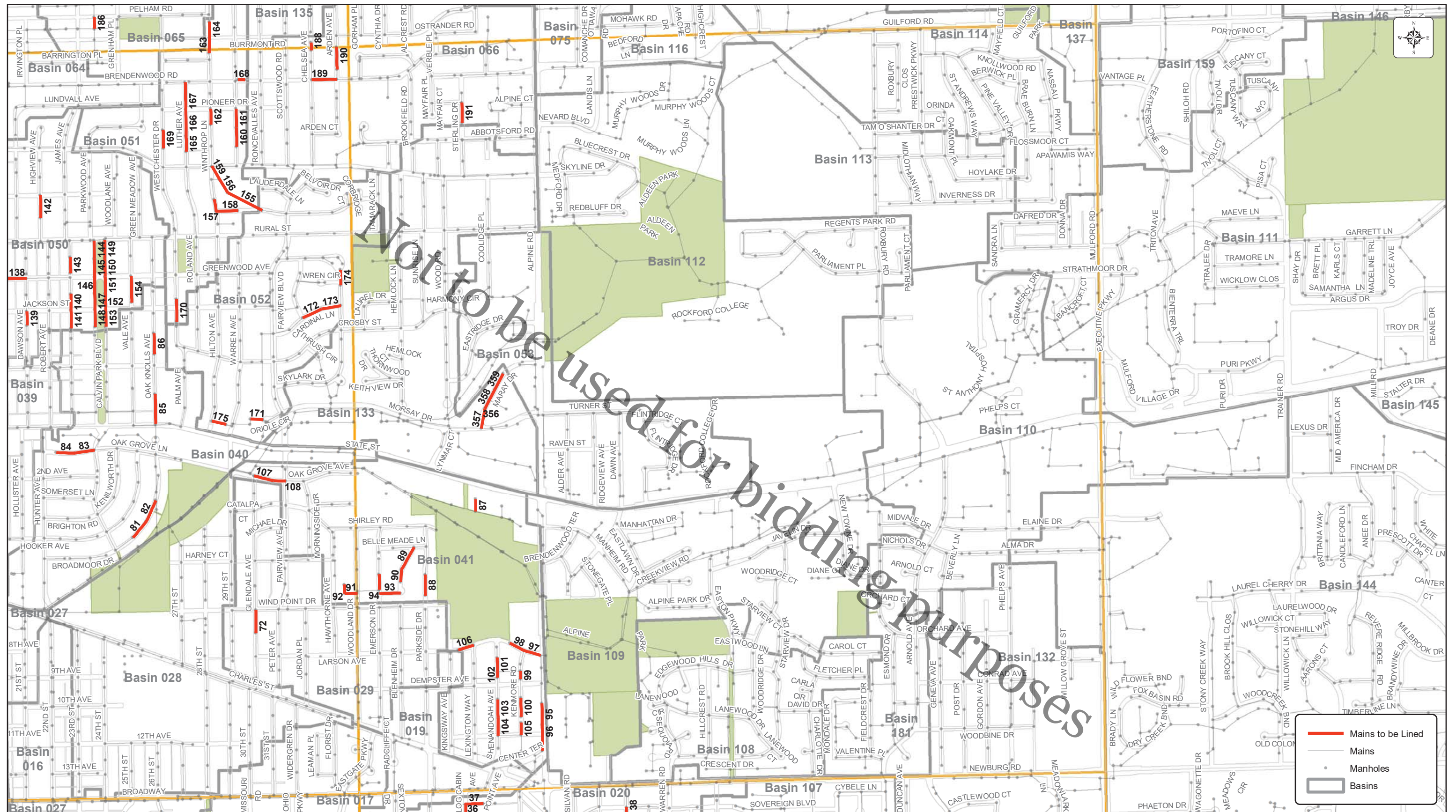
Map #6





Map #7

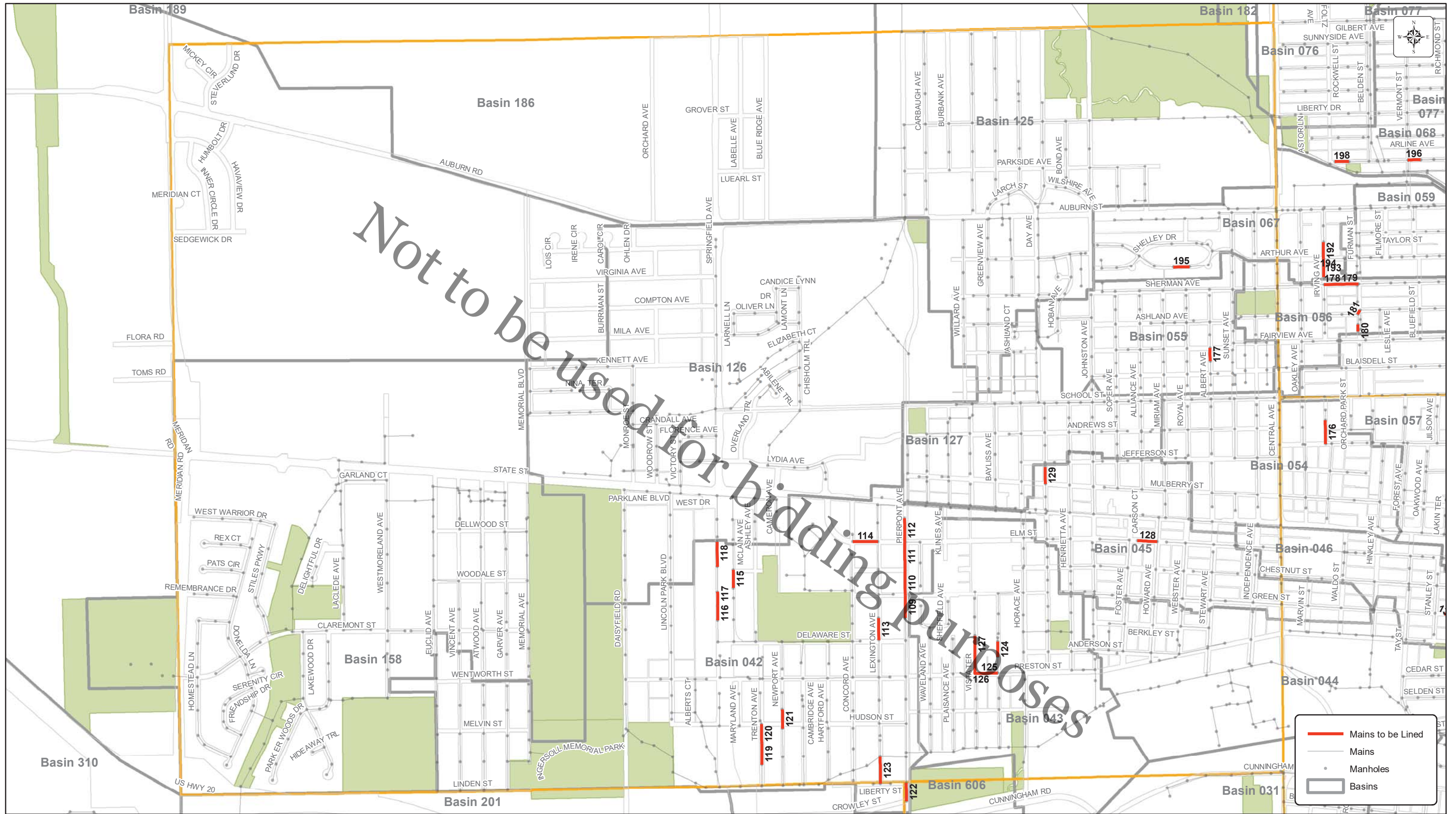




Map #8

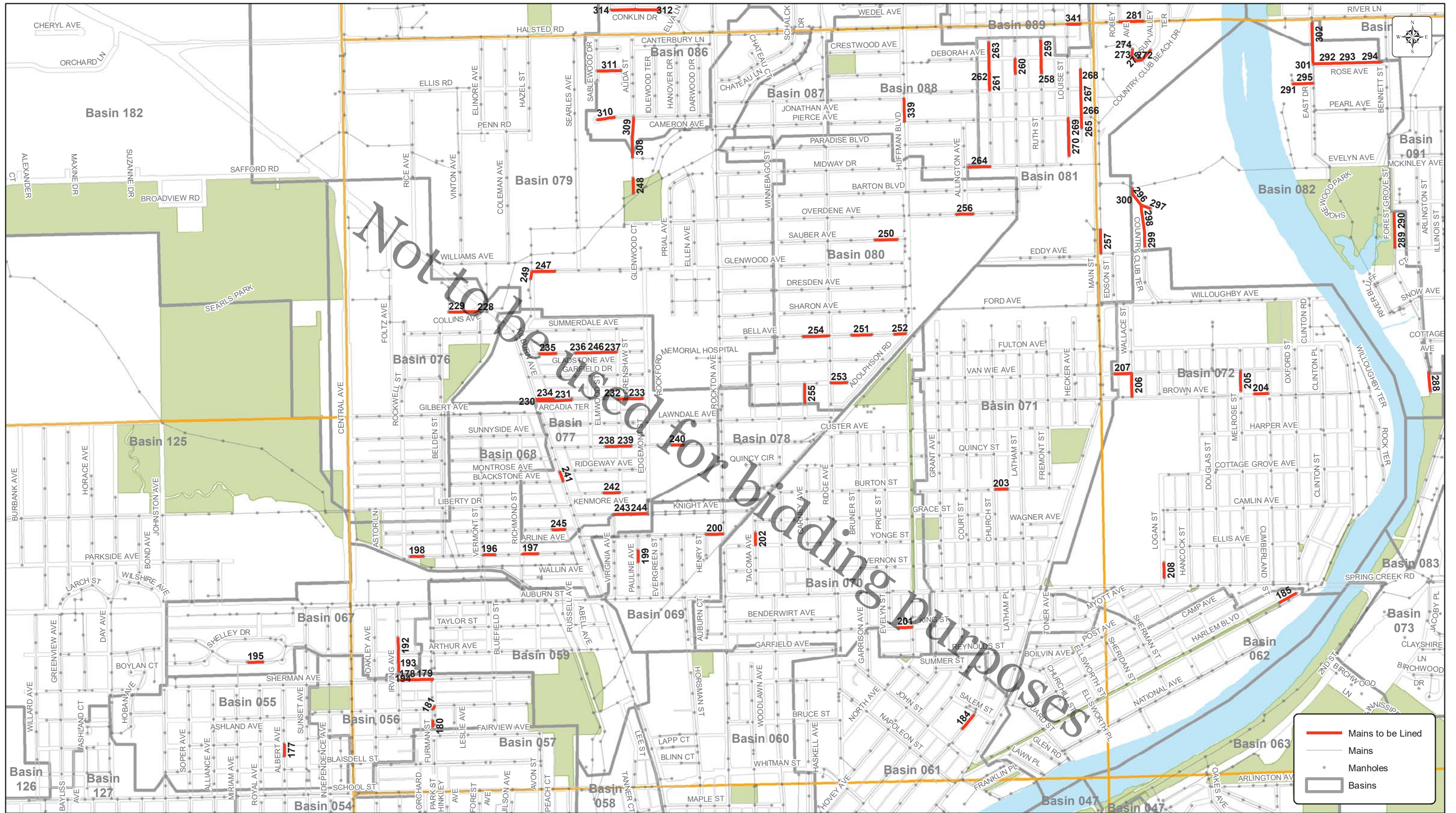
0 625 1,250 2,500 3,750 5,000 Feet

By: JK
Produced: 8/5/2020
RRWRD Engineering Department



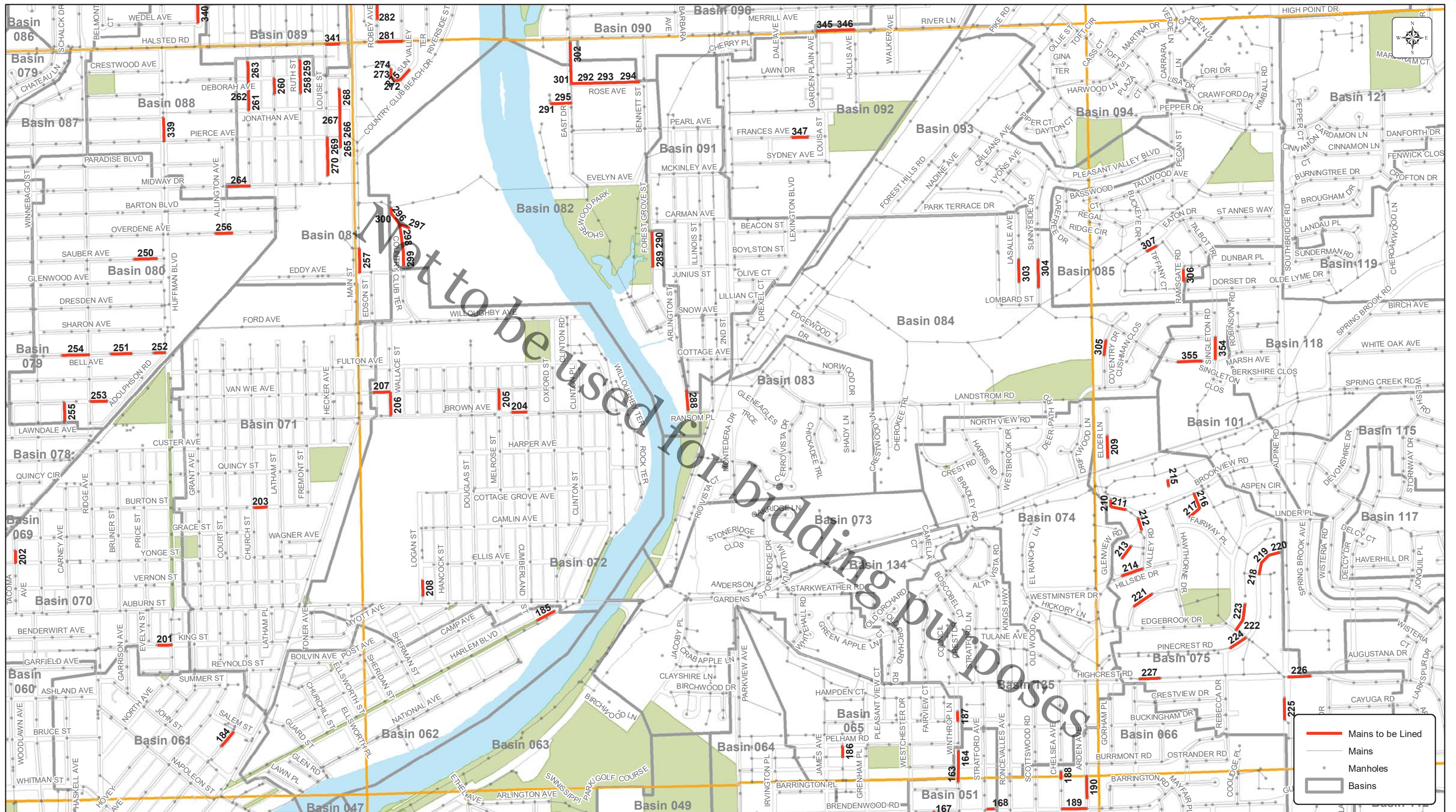
Map #9





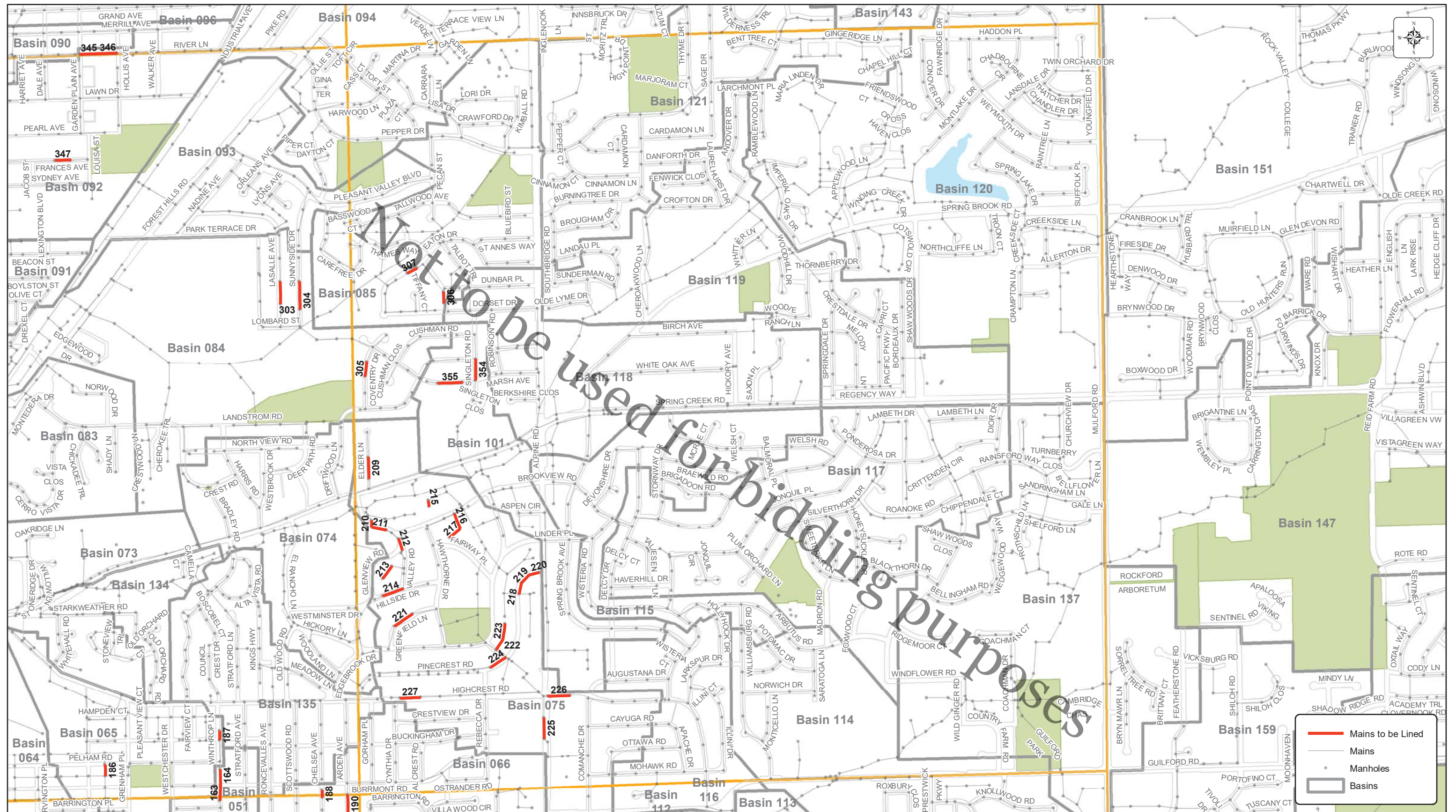
Map #10

0 625 1,250 2,500 3,750 5,000 Feet



Map #11

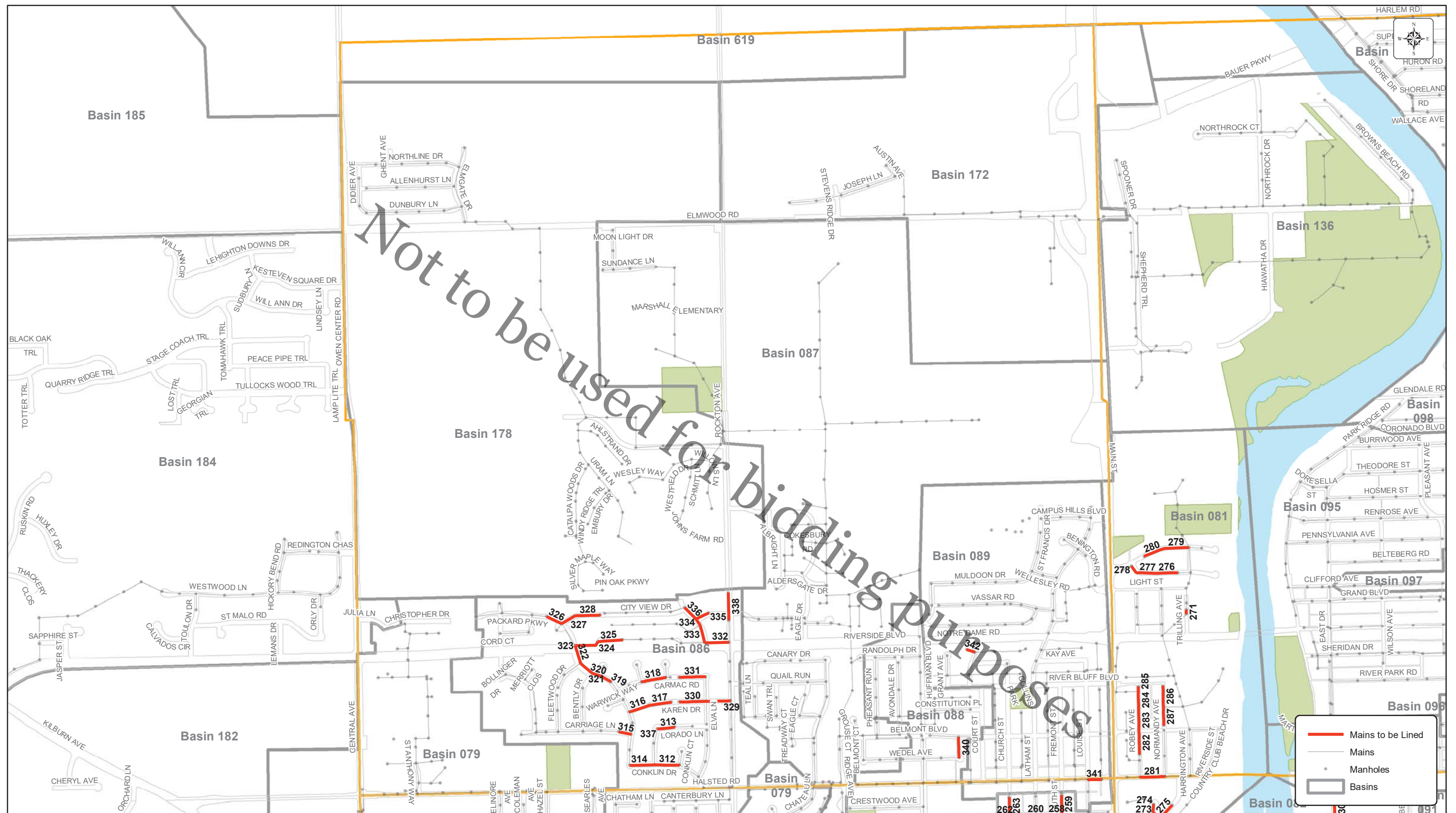




Map #12

0 625 1,250 2,500 3,750 5,000 Feet

By: JK
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RRWRD Engineering Department

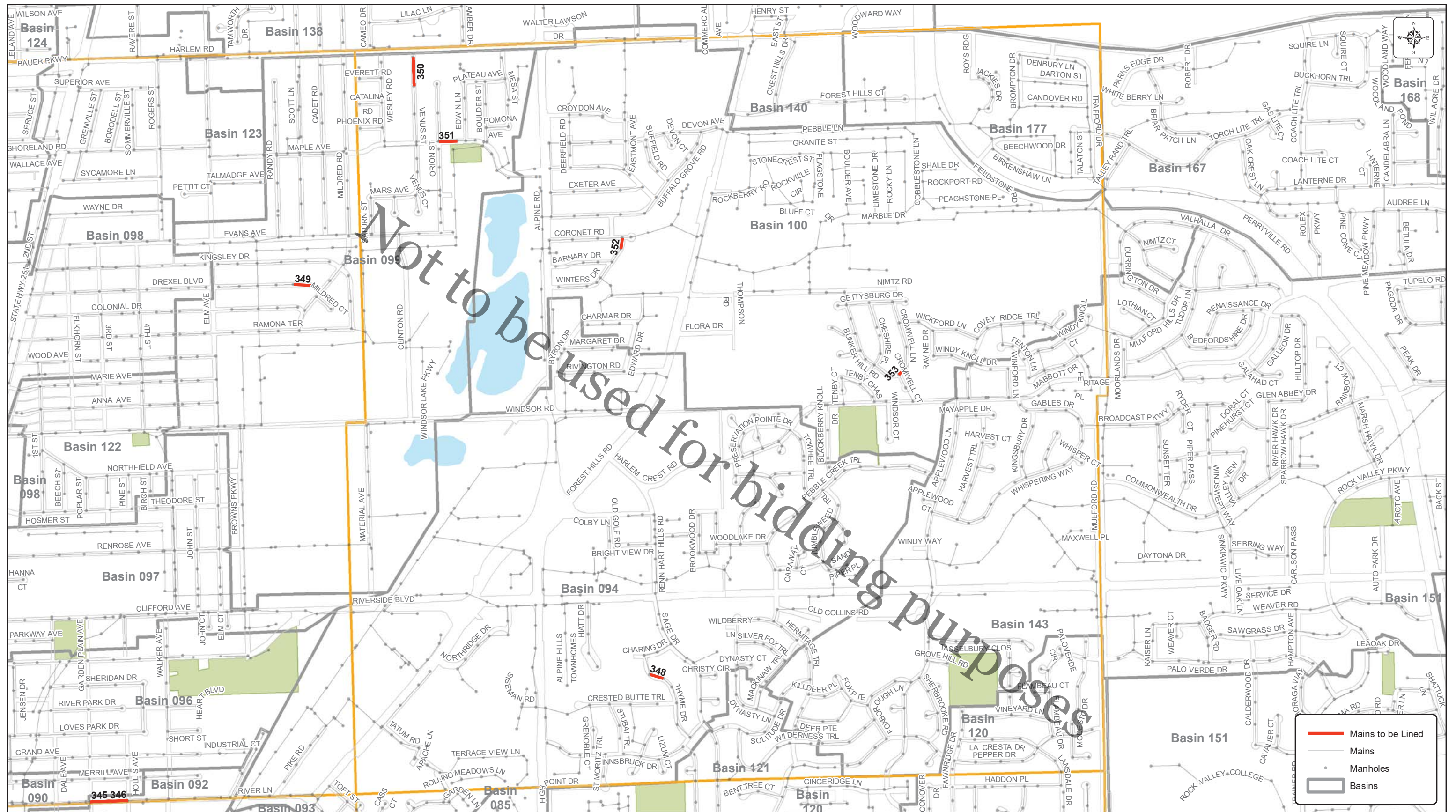


Map #13



By: JK
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Map #15

0 650 1,300 2,600 3,900 5,200 Feet

By: JK
Produced: 8/5/2020
RRWRD Engineering Department

Section V

Individual Lining Maps and TV Inspection Reports (separate files incorporated for reference)

Electronic files will be provided to each planholder on record.

Section VI

General Provisions & Technical Specifications for Sanitary Sewer Construction

(Separate document incorporated by reference)