

Four Rivers Sanitation Authority Rockford, Illinois

Bidding Requirements and Contract Forms

for

2025 Collection System Repairs

Capital Project No. 2654

Not to be used for bidding purposes

Four Rivers Sanitation Authority Rockford, Illinois

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

for

2025 Collection System Repairs

Capital Project No. 2654

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Christopher T. Baer, PE	Interim Executive Director /Director of Engineering
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Not to be used for bidding purposes

Section I

Bidding Requirements

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Article 1 — Notice to Bidders

The Four Rivers Sanitation Authority (FRSA) will receive signed and sealed bids for the 2025 Collection System Repairs, Capital Project No. 2654, at the Steve Graceffa Administration Building (Administration Building) at 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Tuesday, June 17, 2025 at which time and place responsive / responsible bids will be publicly opened and read aloud.

The 2025 Collection System Repairs project consists of various repairs throughout the FRSA's sanitary sewer system. Work includes removal and replacement of existing manholes, pipes, fill materials, pavements and all other appurtenances as indicated in the specifications.

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

All demolition, construction, installation and associated Project work shall be completed by October 31, 2025. Liquidated damages shall be \$300.00 per calendar day.

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

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

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

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

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

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

Dated this 20th day of May, 2025.


BY: Christopher T. Baer, Interim Executive Director

Not to be used for bidding purposes

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

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

1.2 Contradictions

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

2 Legal Requirements

2.1 Illinois Regulations

A. Public Act 100-1177 (820 ILCS 130/) entitled the "Prevailing Wage Act" requires the Bidder to comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on FRSA projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>. The Bidder is responsible for verifying current information at the State's website.

B. Public Act 83-1030 (30 ILCS 565/) entitled the "Steel Products Procurement Act" requires that steel products used or supplied in performance of this Contract or subcontract must be manufactured or produced in the United States with three exceptions.

The provisions of this Section shall not apply:

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

C. Public Act 96-929 (30 ILCS 570/) entitled the "Employment of Illinois Workers on Public Works Act" provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State

of Illinois as defined in the Act; and, further, that Illinois workers are available and capable of performing the particular type work involved.

D. Public Act 101-221 (820 ILCS 96/) entitled the “Workplace Transparency Act” requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:

1. the illegality of sexual harassment
2. the definition of sexual harassment under Illinois State law
3. a description of sexual harassment, utilizing examples
4. my (our) organization's internal complaint process including penalties
5. the legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Illinois Human Rights Commission
6. directions on how to contact the Department and the Commission
7. protection against retaliation as provided by Section 6-101 of the Illinois Human Rights Act

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

E. With regard to nondiscrimination in employment, the Contractor for this project will be required to comply with the Illinois Fair Employment Practices Commission's Rules and Regulations.

F. The Contractor for this project must comply with the Occupational Safety and Health Act.

G. The Contractor for this project must comply with the Federal Drug-Free Workplace Act.

H. Public Act 96-1416 requires the Certification of Clean Construction and Demolition Debris (CCDD) and uncontaminated soil prior to disposal at a CCDD fill site. The Contractor for this project must comply with Public Act 96-1416 and be responsible for the certifications and any fees associated with the disposal at a CCDD fill site.

1. In the event that contaminated soil is uncovered on the project, the Contractor must notify FRSA immediately. Any extra costs resulting from the presence of contaminated soil must be evaluated in accordance with FRSA General Provisions & Technical Specs for Sanitary Sewer Construction; General Conditions: Article 5 – Time Provisions and Article 8 – Changes.

2.2 Americans with Disabilities Act

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

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

- C. damages of any kind (including but not limited to actual, punitive, and compensatory damages)

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

3 General Instructions

3.1 Bidder's Responsibility

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

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

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

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

3.2 Addenda and Interpretations

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

3.3 Laws and Regulations

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

3.4 Quantities Estimated Only

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

3.5 Form, Preparation, and Presentation of Proposals

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

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

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

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

3.6 Bid Security

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount specified in Article One, Notice to Bidders. This sum is a guarantee that, if the Proposal is accepted, a contract will be entered into and its performance properly secured. The FRSA's Bid Bond Form included in the bid packet must be used. No other Bid Bond form may be substituted.

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

3.7 Affidavit of Compliance

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

3.8 Statement of Qualifications

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

3.9 Comparison of Proposals

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

3.10 Acceptance of Bids and Basis of Award

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

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

If the bidder does not comply with the Notice of Award, FRSA will issue a Deficiency Notice. If the bidder to whom the contract is awarded refuses or neglects to execute it or fails to furnish the required bond and insurance within five (5) days after receipt by him of Deficiency Notice, the amount of his deposit shall be forfeited and shall be retained by FRSA as liquidated damage and not as a penalty. It being now agreed that said sum is a fair estimate of the amount of damages that FRSA will sustain in case said bidder fails to enter into a contract and furnish the required bond and insurance. No plea of mistake in the bid shall be available to the bidder for

the recovery of his deposit or as a defense to any action based upon the neglect or refusal to execute a contract.

3.10.1 Evaluation of Responsiveness

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

3.10.2 Evaluation of Responsibility

To be judged as responsible, the bidder shall:

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

3.11 The Rejection of Bids

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

3.12 Insurance and Bonding

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

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

3.12.1 General

The Contractor shall ensure that:

- A. All insurance policies shall be specific to the project.
- B. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for 2025 Collection System Repairs, Capital Project No. 2654.

- C. FRSA shall be named as Additional Insured in all policies; this shall include the Owners' Contractors' Protective Policy option.
- D. All completed operations coverages and bonds shall remain in force for a period of two (2) years following acceptance of the Project and completed operations shall stay in force for two (2) years following completion of the Project.

3.12.2 Insurance

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

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

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

1. Unless otherwise provided in paragraph "c" of this section, FRSA, its officers, officials, employees and volunteers shall be covered as additional insureds as respects liability arising out of activities performed by or on insured's general supervision of the Contractor, products and completed operations of the Contractor, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to FRSA, its officers, officials, employees, volunteers, or agents.
2. Unless otherwise provided in paragraph "c" of this section, the Contractor's insurance coverage shall be primary insurance as respects FRSA, its officers, officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by FRSA, its officers, officials, employees, volunteers, or agents shall be excess of the Contractor's insurance and shall not contribute with it.
3. As an acceptable alternative to provisions "a" and "b" of this section, the Contractor may provide owner's and contractor's protective liability insurance with coverage

limits, named insureds, and in conformity with all applicable specifications of this section.

4. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to FRSA, its officers, officials, employees, volunteers, or agents.
5. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
6. All Coverages — Each insurance policy required by this clause shall not be suspended, voided, canceled by either party, reduced in coverage, or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to FRSA.

3.12.3 Best's Ratings

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

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

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

3.12.4 Performance Bond and Labor & Materials Payment Bond Form

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

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

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

3.12.5 Correction of Contractor's Insurance or Bond Deficiencies

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

3.12.6 Indemnification Clause

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

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

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

3.13 Tax Exemption

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

Not to be used for bidding purposes

Article 3 – Detailed Specifications

1 General

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

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

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

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

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

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

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

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

2 Permit Requirements

2.1 General

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

The Contractor shall comply with the requirements of any and all permits obtained and required for the construction of this project, including but not limited to, those from all jurisdictional roadway authorities. The following contacts are provided for the roadway agencies impacted by this project:

Roadway Authority	Contact	Phone	Email
City of Loves Park	Shannon Messinger	(815) 654-5040	ShannonMessinger@CityofLovesPark.com
City of Rockford	Jordan Masemoore	(779) 348-7634	Jordan.Masemoore@rockfordil.gov
Rockford Township	Barry Palm	(815) 962-7313	BarryPalm@rockfordtownshipil.gov
Village of Machesney Park	Mitch Hilden	(815) 877-5432	mitchh@machesneypark.org

The FRSA will procure IDOT Utility Permits as applicable.

Unless otherwise noted, the Contractor shall be responsible for securing all necessary permits and for all bonds, insurance, etc., and all fees required by any and all permits. Copies of all Contractor-secured permits shall be provided to the FRSA prior to the start of construction.

2.2 Materials – Not used.

2.3 Required Submittals

1. Copies of signed permits, as applicable.

2.4 Payment

No payment will be made for costs associated with permit procurement and compliance.

3 Notification, Access, and Special Considerations

3.1 Notification

The Contractor shall notify all utility companies prior to beginning any work. All underground utilities shall be located by the utility owner and special care shall be taken when excavating near underground utilities to avoid damage. Contractor shall call JULIE at (800) 892-0123 for utility locations in the project area, forty-eight (48) hours, minimum, prior to construction.

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

3.2 Access

The Contractor shall be responsible for the temporary maintenance of all roadways and drives for the duration of this project and shall maintain access to residences and businesses at all times during construction (i.e., drives, roadways, ramps, etc., must remain open or

temporary access must be provided). All materials, equipment, labor, etc., necessary to ensure access is maintained shall be incidental to the Contract.

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

3.3 Special Considerations

Site specific considerations are indicated on the location maps provided in *Section III*.

Special considerations include, but are not limited to, the following:

- Map No. 2. – Contractor shall notify owners of 3205 Lapey Street and 3206 Lapey Street five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary service to residences.
- Map No. 3 – Contractor shall notify owner of 2219 22nd Street and 2220 22nd Street five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary service to residence. A utility pole is located within 10 feet of manhole 011-079. Contractor shall notify City of Rockford Water Division 48 hours, minimum, prior to beginning work. Sanitary sewer repair intersects 6” cast iron water main. Contact matt.baillargeon@rockfordil.gov.
- Map No. 6 – Contractor shall notify owner of 1904 Woodruff Avenue and 1906 Woodruff Avenue five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary services to residences. Contractor shall notify City of Rockford Storm Water Team 48 hours, minimum, prior to beginning work. Twelve-inch (12”) storm sewer is present immediately east of sanitary sewer 026-070-026-015 roughly thirty-inches (30”) deep. Contact jeremy.mitchell@rockfordil.gov. Contractor shall notify City of Rockford Water Division 48 hours, minimum, prior to beginning work. Sanitary service connection to sanitary sewer main may intersect 6” cast iron water main. Contact matt.baillargeon@rockfordil.gov.
- Map No. 7 – Contractor shall coordinate work with Rockford Public School Operations. Work is adjacent to Washington Elementary School and sanitary manhole repair will impact sanitary service to school. Contact Brian Wolf at (815) 966-5250 ext. 16711.
- Map No. 8 – Contractor shall notify owners of 207 Longwood Street five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary service to residence.
- Map No. 10 – Contractor shall notify City of Rockford Water Division 48 hours, minimum, prior to beginning work. Sanitary sewer repair intersects 12” cast iron water main. Contact matt.baillargeon@rockfordil.gov.
- Map No. 12 – Contractor shall notify owners of 950 Woodlawn Avenue five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary service to residence.

- Map No. 16 – Contractor shall notify F&F Auto Sales at (815) 963-1857 five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary service to the business. Contractor shall notify Jack Hall Construction at (815) 967-9941 five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will occur in an easement located on the property of both businesses.
- Map No. 17 – Contractor shall coordinate repair work to be completed in advance of the City of Loves Park's East Drive Resurfacing project. Milling is anticipated to begin at the location on **August 4, 2025**. Contact Arc Design's Ryan Shaulis at (815) 484-4300x213 for more East Drive resurfacing information.
- Map No. 19 – Contractor shall notify owner of 7723 Elm Avenue five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact sanitary service to residence.
- Map No. 20 – Contractor shall notify owner of 101 Shoreland Road five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair will impact driveway to residence. Access must be maintained to residence throughout construction.
- Map No. 22 – Contractor shall notify owner of 5266 Rowena Drive five (5) business days, minimum, prior to beginning construction. Sanitary sewer repair may disturb large trees located near the property line.

3.4 Required Submittals – Not Used.

3.5 Measurement and Payment

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

4 Collection System Repairs

4.1 General

Work under this item includes permits, mobilization/transportation, site access, site preparation, supervision, and all labor, equipment and materials needed to complete main line repairs on existing sanitary sewers of various diameters and materials with new sanitary sewer pipe on grade and in line. Work shall also include manhole removal and replacement, existing manhole invert reconstruction, inside and outside drop connection removal and replacement, disposal of removed materials, traffic control, temporary bypass pumping, pipe bedding and backfill, compaction, pavement restoration, construction easement acquisition, trench dewatering, utility relocation and/or removal and replacement, all site and property restoration, grading, erosion control, dust control, tree trimming and removal, and any ancillary items needed for the completion of this project not specifically mentioned herein.

The lengths of the collection system repairs indicated on the maps provided in *Section III* are estimated only. The Contractor's lump sum price per Collection System Repair shall be

based on the length shown with an allowance of up to 5.0' of pipe per connection. This allowance for additional pipe is also applicable to pipe used to connect new manholes. Connection shall be made to structurally sound pipe with positive slope as verified by a FRSA Inspector. If additional pipe replacement is required, over and above the 5.0' pipe allowance, the Contractor will be reimbursed on a time and material basis.

The FRSA has completed internal televising of all existing sewers on this project. Video Reports are available for viewing at the FRSA Engineering office during normal working hours (8:00 a.m. – 4:30 p.m.). *Section III* contains location maps. A manhole inspection report is included where work involves removal and replacement of an existing manhole.

The Contractor shall be responsible for locating the main line repair limits in the field; both for the JULIE locate and repair. Sewer service locations on the location maps are not exact.

Contractor shall field verify the depth of all Collection System Repairs on this project. The depths indicated are based on TV inspections from manholes on standard televising setups and at downstream manholes on reverse televising setups. Depths and inverts on supplied maps are based upon most recent FRSA inspection.

The Contractor shall be responsible for any costs associated with corrective measures required to repair or replace items not meeting the requirements of these specifications as determined and directed by the FRSA.

4.2 Submittals

The Contractor shall submit the following items for review and approval:

1. Detailed Project Schedule, including specific collection system repair numbers by location map provided in *Section III*.

4.3 Measurement and Payment

Payment for Collection System Repairs shall be made at the Contract Lump Sum (LS) price for completed Collection System Repairs identified in *Section III, Location Maps*.

Section III includes Location Maps (1 – 29) that indicate the work for each Collection System Repair. The *Proposal* in *Section II, Contract Forms* shall establish a separate Contract Lump Sum (LS) price for each location for all the specified work.

5 Remove Sanitary Manhole

5.1 General

This work shall consist of removal and disposal of existing sanitary sewer manholes as required to construct this project. All work shall conform to *Section 605.03* of *IDOT Standard Specifications*.

Any pipes to be abandoned in place following removal of existing sanitary manholes shall be bulkheaded with a concrete plug prior to backfilling or installation of replacement manhole.

5.2 Submittals – Not used.

5.3 Payment

Payment for removal and disposal of existing sanitary sewer manholes shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

6 Sanitary Manholes

6.1 General

Work under this item shall include all labor, equipment, and materials, required to construct pre-cast concrete sanitary manholes including connecting to existing sanitary sewers in accordance with the *FRSA's Standard Detail Sheet and General Provisions and Technical Specifications*. Work includes furnishing and installing a FRSA-approved manhole frame and lid (Neenah R-1670-2004 (standard) or Neenah R-1670-2008 (low profile) frame with Neenah R-1670-0358 lid) adjusted to grade as indicated on the project *Location Maps* provided in *Section III* or as otherwise specified in this section; Contractor shall field-verify all proposed rim elevations. FRSA-approved manhole steps shall be provided with a maximum spacing of 16". The top of the pre-cast cone section shall be at an elevation to allow for adjustment of frame (12" maximum) without disturbing the cone section.

Unless otherwise specified or shown, manhole frames shall be set at finish grade in turf areas and 1/4" - 3/8" beneath finished grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness for concrete adjustment rings shall be four inches (4") unless off-road or in curb and gutter roadway. Maximum ring thickness shall be twelve inches (12"). Concrete adjustment rings shall conform to ASTM C478 and ASTM C139, latest revision. Concrete for adjusting rings: Class "A" as specified in *T.S. 5.3(a)* in the FRSA's *General Provisions and Technical Specifications for Sanitary Sewer Construction*. If adjustment less than 4" is required, expanded polypropylene (EPP) rings are required. No more than thirty inches (30") from the top of casting to the first step will be allowed.

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

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

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

Unless noted otherwise, manhole bases shall be constructed in the factory with only the downstream pipe opening (with FRSA-approved gasket) cast in place. The upstream pipe openings shall be core-drilled in the field. A flexible pipe-to-manhole connector (PSX Positive Seal Gasket System with Power Sleeve Expansion or other FRSA-approved connector) shall be installed in the field.

All connections to the new manholes shall be made with PVC SDR 35 Pipe (ASTM 3034) diameters of 8" through 15", and ASTM F679 for diameters of 18" through 36". A

minimum of 3.0' of new PVC pipe shall be installed at each connection to existing sanitary sewer.

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

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

For all new manholes, and where manhole invert reconstructions are required, the Contractor shall construct a paved manhole bench per the FRSA's *Standard Detail Sheet* or as directed by FRSA. Manhole benches shall have a minimum slope of two inches (2") per foot.

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

Flat tops will not be permitted on four-foot (4') diameter manholes; eccentric cone sections must be a component of these manholes unless otherwise noted or directed by FRSA.

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

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

6.2 Submittals

1. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, number and size of adjusting rings, location and spacing of steps and invert elevations of all pipes. A plan view shall be provided showing the orientation of pipe openings.
2. Manhole frames and lid material specifications.
3. Chimney seal material specifications.
4. Barrel joint seal material specifications.
5. Manhole-to-pipe connection seal material specifications.
6. Manhole step material specifications.
7. Sealant material specifications.
8. Drop assembly material specifications (as applicable).

6.3 Payment

Payment for sanitary manholes installed shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

7 Sanitary Sewers

7.1 General

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

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

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

Sanitary sewer pipe that varies ± 0.02 feet from the proposed grade and/or ± 0.15 feet from the proposed line will not be accepted. More stringent tolerances may be required in the field if directed by the FRSA. The Contractor shall be solely responsible for setting and maintaining proper elevations, lines, and grades for all work. The FRSA shall not be obliged to establish construction grade or alignment.

The Contractor shall provide at least one laser device for setting lines and grades of sub-grade and pipe inverts during all phases of construction. The device(s) shall be of acceptable design and maintained in good working condition for the duration of the project. The Contractor shall employ workers competent in the setup and operation of said device(s). Said device(s) shall be operated at no extra cost to the FRSA.

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

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

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

Connections to existing brick or block manholes shall utilize a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.

7.2 Materials

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

When connecting to, or replacing, existing 9" diameter VCP, 10" diameter SDR 35 PVC piping shall be used.

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

7.3 Required Submittals

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

7.4 Measurement and Payment

Payment for sanitary sewers installed shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

8 Sewer Service Replacement

8.1 General

This work shall consist of replacing existing sanitary sewer services from the private VCP, PVC or cast-iron pipe at or near the property or easement line (or point of connection as shown on the project location maps) to the new sanitary sewer with 4" or 6" PVC pipe as indicated on project location maps. This item shall include all labor, equipment, materials, risers, fittings, couplings, adaptors, bypass pumping, sidewalk replacement, curb and gutter replacement, pavement restoration, storm sewer removal/replacement, supervision, etc., needed to complete this work including all appurtenances. All existing VCP sanitary sewer services in the Right-of-Way or easement limits are believed to be 6" diameter.

When replacing 4" diameter sewer services to single family residential homes, the Contractor will be allowed to sleeve the new 4" Schedule 40 PVC pipe through existing 6" VCP service pipe provided there is adequate line and grade. If sleeving of the 4" service into the existing 6" service cannot be accomplished, open cut replacement will be required at no additional cost. All 6" diameter sewer services to be replaced with 6" PVC services will require open cutting.

Sleeved sanitary sewer service replacement pipe shall be Schedule 40 PVC meeting the requirements of ASTM D-1785 and D-2665. Solvent weld joints shall meet the requirements of ASTM D-2855.

Open cut sanitary sewer service replacement pipe shall be water main quality PVC SDR 26 meeting the requirements of ASTM D-2241 with O-ring joints per ASTM D-3139.

The Contractor shall be responsible for maintaining the current level of service to all users connected to the existing sanitary sewer. Bypass pumping shall be provided as necessary at no additional cost.

Clay or Cast-Iron Pipe-to-PVC pipe transitions shall be made by use of shear-resistant flexible clay or CIP-to-PVC adapters (Fernco Model 5000, Mission Flex Seal ARC, or FRSA-approved equal adaptor). Connection shall be made to structurally sound pipe.

Connection of a new service lateral to new sewer main shall be made with a factory wye or tee fitting unless noted otherwise.

Connection of a new service lateral to an existing sewer main may be made with a saddle-wye or tee fitting where conditions allow for a proper fit and seal at the main.

This bid item shall include excavation, dewatering, pipe, fittings, risers, adapters, cleanouts, jacking, and connection to the existing house/building discharge lateral for occupied parcels as shown on the location maps provided in *Section III*.

FRSA Connection permits for existing sewer service replacement and reconnections will not be required.

Existing sewer service wye locations are based on TV logs and record information. The proposed service connection at the Right-of-Way or easement line is based on available records. Should the service alignment, diameter or point of connection vary from that shown in the plans, no claims for additional compensation will be entertained.

Cleanouts will be required at the property or easement line and where required by IL State Plumbing Code. Construction shall conform to the details provided on the FRSA's *Standard Detail Sheet*. A cleanout casting shall be provided on all cleanouts in paved areas (Neenah R-1974-A or FRSA-approved equal).

8.2 Submittals

1. Pipe, fittings, and repair coupling material specifications.
2. Cleanout casting shop drawings; Neenah R-1974-A or equal.

8.3 Payment

Payment for sewer service replacement shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

9 Sewer Service Reconnection

9.1 General

Work shall include excavation, dewatering, pipe, fittings, risers, adapters, and connection to the existing building discharge lateral for occupied parcels as shown on the project location maps provided in *Section III*. Sidewalk removal and replacement, curb and gutter removal and replacement, bedding, initial backfill, select backfill, pavement and surface restoration shall be included and shall comply with specifications provided elsewhere herein. All work shall be performed in accordance with State and local plumbing codes.

Sanitary sewer service pipe shall be water main quality PVC SDR 26 meeting the requirements of ASTM D-2241 with O-ring joints per ASTM D-3139.

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

Connection to new sewer main shall be made with a factory wye or tee fitting. Connection to an existing sewer main may be made with a saddle-wye fitting where conditions allow for a proper fit seal at the main.

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

FRSA Connection permits for existing sewer service reconnections will not be required.

Existing sewer service wye locations are based on TV logs and record information. The proposed service connection at the Right-of-Way or easement line is based on available records. Should the service alignment, diameter or point of connection vary from that shown in the plans, no claims for additional compensation will be entertained.

9.2 Submittals

1. Pipe, fitting, and repair coupling material specifications.

9.3 Payment

Payment for sewer service reconnection shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

10 Rock Excavation

10.1 General

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

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

1. The guidelines and requirements of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.
2. A substantial reduction in production rate.
3. Visual evidence of large boulders, rock, granite, trap, quartzite, chert, limestone, hard sandstone, hard shale or slate, or other hard materials, in natural ledges or displaced masses which cannot be removed by a modern backhoe without resorting to the continuous use of pneumatic tools, barring or wedging for removal from their original beds.

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

10.2 Materials – Not used.

10.3 Required Submittals – Not used.

10.4 Measurement and Payment

Payment for Rock Excavation shall be made at the Contract unit price per Cubic Yard (CY) removed.

The limits of what will qualify as rock excavation will be determined by the FRSA in the field. The maximum payable trench width shall not exceed the nominal pipe size plus eighteen inches (18") for 8" to 24" diameter pipes or the nominal pipe size plus twenty-four inches (24") for pipe sizes greater than 24" diameter. The maximum payable radius used to calculate volume of rock removed for manhole installation shall be the inside radius of the manhole plus twenty-four inches (24"). No additional payment will be made for extra rock excavation desired for work area enhancement or for areas needed to facilitate manhole or vault installations.

11 Bypass Pumping

11.1 General

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

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

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

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

11.2 Submittals

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

11.3 Payment

Payment for bypass pumping shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

12 Dewatering

12.1 General

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

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

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

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

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

12.2 Submittals

1. Copy of permits, as applicable.

12.3 Payment

Payment for dewatering shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

13 Bedding, Backfill and Compaction

13.1 General

13.2 Pipe Bedding

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

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

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

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

13.3 Backfill and Compaction

The Contractor shall use approved select trench backfill to the level of the base under all roads, shoulders, sidewalks, driveways, parking lots or pavements of any kind and beyond such pavements as set forth in *General Provisions and Technical Specifications T.S. 2:4-c*. Select trench backfill under said structures shall meet FA 6 gradation and be mechanically compacted in six-inch (6") to eighteen-inch (18") loose lifts to the sub-grade. The materials and compaction shall be in accordance with *Section 208* and *550.07*, Method 1 of the *IDOT Standard Specifications*.

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

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

The Contractor shall furnish a backhoe and operator during the testing of the backfill placed during construction. All compaction tests will be performed at the Contractor's expense by an approved, independent geotechnical-testing firm. If the tests do not meet the compaction requirement specified above, the area shall be both re-compacted and re-tested at the Contractor's expense until the test requirements are met. If initial tests indicate compaction requirements are being met, no further lift testing will be required unless method, equipment, or material changes. The final lift forming the sub-grade must be tested.

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

The Contractor shall avoid disturbing all utilities during backfilling and compaction operations and properly dispose of all spoil at no additional cost to the FRSA

The Contractor shall provide a three (3) year guarantee against trench settlement throughout this project upon completion of construction at no additional cost to the Contract.

13.4 Submittals

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

13.5 Payment

Payment for bedding, backfill and compaction shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

14 Pavement Removal

14.1 General

This work shall consist of removing existing bituminous and/or PCC roadway pavement and/or driveway pavement of various depths as required to construct this project. This work shall conform to *Section 440 of IDOT Standard Specifications*. Pavement shall be saw-cut full depth prior to removal. Areas of removed pavement shall be square or rectangular in shape.

14.2 Submittals – Not used.

14.3 Payment

Payment for pavement removal shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

15 PCC Curb and Gutter Removal & Replacement

15.1 General

This work shall conform to *Section 606 of IDOT Standard Specifications* and *Standard 606001*. One-inch (1") Ceramar expansion joint materials with caulking shall be installed at 100' intervals. The Contractor shall remove and replace the entire length of curb and gutter as required or shown on the project Location Maps provided in *Section III*; tunneling under the existing curb and gutter will not be permitted. Curb and gutter replacement shall match existing type, line and grade. All curb and gutter replacement shall be inspected and approved by the applicable roadway authority. Connection to the existing curb and gutter shall be made by drilling and epoxy grouting two (2) one inch (1") diameter smooth dowels 18" long into the existing curb and gutter at mid-depth. Curb and gutter shall be saw-cut at the tie-in points.

15.2 Submittals

1. Approved concrete mix design as required by roadway authority.

2. Approved curb and gutter detail drawing as required by roadway authority.

15.3 Payment

Payment for curb and gutter replacement shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

16 Sidewalk Removal / Replacement

16.1 General

This work shall consist of removing and replacing existing PCC sidewalk as required to construct this project. This work shall conform to *Sections 424 and 440 of IDOT Standard Specifications*.

Sidewalk replacement shall match existing width, thickness, line and grade. Sidewalk shall be removed in full panels, tunneling under existing sidewalks will not be permitted. Sub-grade preparation shall be included in the bid price.

16.2 Submittals

1. Approved concrete mix design as required by roadway authority.

16.3 Payment

Payment for removal and replacement of PCC sidewalk shall be included in the Contract Lump Sum price (LS) for each applicable Collection System Repair.

FRSA inspectors may determine additional PCC sidewalk removal and replacement, in excess of the amount indicated on the *Section III* maps, is necessary to reach a logical tie-in point. Tie-in points shall be confirmed with FRSA inspector prior to installation of sidewalk.

Payment for additional removal and replacement of PCC Sidewalk shall be made at the Contract unit price per Square Foot (SF).

17 Pavement Restoration

17.1 General

This work shall be in accordance with *T.S. 4:3/Pavement Restoration* of the *General Provisions and Technical Specifications for Sanitary Sewer Construction* and with *IDOT Standard Specifications, Sections 301, 406, and 420* as appropriate to provide new pavement as indicated for each individual repair.

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

If 80% or more of the pavement lane width is damaged, or when otherwise directed, the Contractor shall replace the entire lane width.

All HMA and PCC pavement edges shall be saw-cut full depth. All HMA and PCC pavement patches shall be square or rectangular in shape. Contractor shall provide all materials, labor and equipment required to remove and dispose of the existing pavement.

Pavement restoration shall be completed on each Collection System Repair within fourteen (14) days of completion of the repair.

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

17.2 Minimum Pavement Sections

HMA Roadway restoration shall match existing thickness or meet the minimum pavement sections indicated on the Location Maps provided in *Section III*. Minimum surface course thickness ranges from 1.5" – 2.0", and minimum binder course thickness ranges from 2.0" – 6.0" depending on functional classification of the roadway.

PCC Roadway restoration shall be 12" minimum or match existing thickness and requirements of the applicable roadway authority. All joints shall include dowels or reinforcement as indicated on the details provided in *Section IV*.

HMA Drives or Private Roadways shall match existing thickness or at a minimum consist of 2" of HMA surface course.

PCC Driveways damaged as a result of construction shall be removed and replaced to match existing thickness or at a minimum consist of 6" of PCC pavement.

HMA Pedestrian/Bike Paths shall match existing thickness or at a minimum consist of 2" of HMA surface course. Full width replacement of damaged bike/walking paths is required.

Vibrating rollers will not be allowed on residential streets. Densities for HMA materials shall be 93% minimum unless otherwise specified by roadway authority or the FRSA.

17.3 HMA Materials

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

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

HMA surface course shall be mixture composition IL 9.5 or IL 12.5, Mix D, N50. HMA binder course shall be mixture composition IL 19.0, N50.

17.4 PCC Pavement

PCC Pavement patches shall be either Class B or Class C per *Section 442 of IDOT Standard Specifications*. Reference *Standard 442101-08* for Class B patches and *Standard 442201-03* for Class C patches. Mixture PP-4 or PP-5, per *Article 1020.04*, shall be used.

17.5 Compacted Aggregate Base Course

Aggregate Base course replacement shall consist of matching existing thickness or placing six inch (6") Aggregate Base Course, IDOT Type B, CA-6 on top of six inch (6") Subbase Granular Material, IDOT Type B, CA-2, whichever is greater, beneath pavement surfaces to be replaced throughout the project area. This item shall include all subgrade preparation throughout the project, as well as the removal and disposal of all excess material.

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

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

17.6 Submittals

1. HMA mix designs.
2. PCC Pavement mix designs.
3. Aggregate base course gradations.
4. Prime Coat Materials
5. Tack Coat Materials

17.7 Payment

Payment for pavement restoration shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

18 Pavement Marking

18.1 General

This work shall include all labor, equipment, and materials to install pavement markings in accordance with *Section 780 of IDOT Standard Specifications*. Pavement marking layout shall match the layout that existed prior to removals. Contractor shall coordinate layout with FRSA Inspector and obtain approval of the appropriate roadway authority prior to installation.

18.2 Materials

Paint pavement marking materials shall conform to Article 1095.02 of *IDOT Standard Specifications*.

18.3 Required Submittals

1. Paint pavement marking material specifications and MSDS.

18.4 Measurement and Payment

Payment for paint pavement marking shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

19 Clearing, Tree Removal & Trimming

19.1 General

The Contractor shall trim and remove only those trees required to complete Collection System Repairs. Tree trimming and removal shall be kept to a minimum.

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

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

For tree removal and trimming within the City of Rockford, the Contractor must obtain a Maintenance Permit from the Forestry Department. Contact Taylor Hennelly, taylor.hennelly@rockfordil.gov.

19.2 Submittals

1. Tree Maintenance Permits as applicable.

19.3 Payment

Payment for clearing, tree removal and trimming shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

20 Restoration and Seeding

20.1 General

All restoration of public or private property including, but not limited to, fences, sidewalks, driveways, all other slab work, (concrete and asphalt), drainage channels, riprap, fences, turf areas, dry wells, etc., disturbed or damaged because of this construction project shall be promptly completed in accordance with public agency requirements. Completed restoration shall meet or exceed the pre-construction conditions, as directed by the FRSA. Topsoil shall be as specified in T.S. 4:2c (6" minimum thickness).

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

Suppliers shall be prepared to certify the laboratory and field testing of their product and confirm that it meets all the foregoing requirements based upon such testing.

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

20.2 Seeding and Fertilizing

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

The seeding mixture used shall be compatible with the existing ground cover and shall be acceptable to the FRSA. Maintainable lawn areas shall be seeded with IDOT Class I seeding mixture. Existing non-maintained turf areas shall be seeded with IDOT Class 3-slope mixture.

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

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

20.3 Seeding Specification

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

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

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

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

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

when hydraulically sprayed on the ground, the material will form a blotter-like cover impregnated uniformly with grass seed, and which after application will allow the absorption of moisture and percolation of rainfall or mechanical watering of the underlying soil.

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

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

20.4 Submittals

1. Seed mixtures and fertilizer specifications.

20.5 Payment

Payment for restoration and seeding shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

21 Traffic Control & Protection

21.1 General

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

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

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

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

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

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

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

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

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

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

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

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

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

The Contractor is responsible for the maintenance of all traffic control devices installed and shall inspect all barricades, barrels, warning signs, and lights which he has installed on a twenty-four (24) hour basis for each day of this Contract. In the event of severe weather conditions, the Contractor shall be required to furnish any additional personnel required to maintain all traffic control devices as required by the FRSA. Traffic control devices shall be inspected at least once every twelve (12) hours.

The Contractor shall provide the FRSA and the roadway agency with the name, address, and telephone number of two (2) persons who will be responsible for maintaining the traffic control devices and who will be available to the roadway agency on an immediate basis twenty-four (24) hours a day. In the event one or both persons become unavailable, the Contractor shall furnish the contact information for other individuals who will be responsible.

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

Contractor acknowledges that the nature of this project requires varying scopes of work at many locations throughout a large area. As such, no additional payment will be made for Traffic Control and Protection for any location additions, deletions, or changes in scope of work at any particular location.

21.2 Materials

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

21.3 Required Submittals

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

21.4 Payment

Payment for traffic control and protection shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

22 Erosion & Sediment Control

22.1 General

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

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

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

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

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

22.2 Silt Fencing

Silt fencing shall conform to *Standard 280001-07 of the IDOT Highway Standards*. Silt fencing shall be Amoco 2127, or approved equivalent. Posts shall be 1.5" x 1.5" x 4' long,

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

22.3 Inlet and Pipe Protection

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

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

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

22.4 Materials

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

22.5 Required Submittals

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

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

22.6 Payment

Payment for erosion and sediment control shall be included in the Contract Lump Sum (LS) price for each applicable Collection System Repair.

23 Quality Control, Tests & Certification

23.1 General

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

All Sanitary Sewer Main Line Repairs on this project shall be inspected by the FRSA via internal television inspection for final acceptance. Contractor shall coordinate televising with the FRSA's Inspector.

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

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

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

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

23.2 Submittals – Not used.

23.3 Payment

Payment for quality control, tests and certifications shall be included in the Contract Lump Sum (LS) price for each Collection System Repair.

Not to be used for bidding purposes

Not to be used for bidding purposes

Section II
Contract Forms

Not to be used for bidding purposes

Proposal

Project: 2025 Collection System Repairs, Capital Project No. 2654

Location: Various locations throughout the public Right-of-Way and sanitary sewer easements within the City of Loves Park, City of Rockford, Rockford Township, and Village of Machesney Park
Winnebago County, IL

Completion Date: October 31, 2025

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

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

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

(Address of Individual, Partnership or Corporation)

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

1. That I (we), have, examined and am (are) familiar with all the related contract documents and found that they are accurate and complete and are approved by the undersigned.
2. That I (we), have carefully examined the site of the work, and that, from my (our) investigation, has satisfied myself (ourselves) as to the nature and location of the work, the character, quality, and quantity of materials and the kind and extent of equipment and other facilities needed for the performance of the work, the general and local conditions and all difficulties to be encountered, and all other items which may, in any way, effect the work or its performance.
3. That this bid is made without any understanding, agreement or connection with any other person, firm, or corporation making a bid for the same purposes, and is in all

respects fair and without collusion or fraud; and that I (we) are not barred from bidding as a result of a bid-rigging or bid-rotating conviction.

4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of the Four Rivers Sanitation Authority, which it is agreed, shall be retained as liquidated damages by said Four Rivers Sanitation Authority if the undersigned fails to execute the Contract in conformity with the contract documents incorporated in the contract documents and furnish bond as specified, within ten (10) days after notification of the award of the contract to the undersigned.
5. The Bidder is of lawful age and that no other person, firm or corporation has any interest in this Proposal or in the Contract proposed to be entered into.
6. The Bidder is not in arrears to the Four Rivers Sanitation Authority, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the Four Rivers Sanitation Authority.
7. No officer or employee or person whose salary is payable in whole or in part by the Four Rivers Sanitation Authority is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety or otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it relates, or in any portion of the profits thereof.
8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify the Four Rivers Sanitation Authority and the Four Rivers Sanitation Authority's representatives.

In regard to participation in an approved Apprenticeship program, upon request, Contractor will be required to provide written proof of participation.
9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 101-0221 and will make this information available upon request.
10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including Four Rivers Sanitation Authority) to submit certified payroll reports via the State's Certified Transcript of Payroll Portal found at <https://labor.illinois.gov/laws-rules/conmed/certifiedtranscriptofpayroll.html>.
11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".

13. The undersigned, as Bidder, declares he will comply with Public Act 96-929 (30 ILCS 570) regarding Illinois residents' employment.
14. The undersigned, as Bidder, declares he will comply with non-discrimination in employment in accordance with the Illinois Fair Employment Practices Commissions Rules & Regulations.
15. The undersigned, as Bidder, declares that he currently participates in an apprenticeship or training program that is registered with the United States Department of Labor's Bureau of Apprenticeship and Training or other acceptable State of Illinois Department of Labor monitored program.

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

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

Item No.	Quantity	Unit	Description		Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	1	LS	Collection System Repair	809 Ranger Street			
2	1	LS	Collection System Repair	3205 Lapey Street			
3	1	LS	Collection System Repair	2220 22nd Street			
4	1	LS	Collection System Repair	2115 22nd Street			
5	1	LS	Collection System Repair	Intersection of Newburg Road and Oakdale Street			
6	1	LS	Collection System Repair	1906 Woodruff Avenue			
7	1	LS	Collection System Repair	Intersection of Salter Avenue and West Street			
8	1	LS	Collection System Repair	207 Longwood Street			
9	1	LS	Collection System Repair	Intersection of Berkley Street and Webster Avenue			
10	1	LS	Collection System Repair	Intersection of Guilford Road and James Avenue			
11	1	LS	Collection System Repair	Intersection of South Rockton Avenue and Green Street			
12	1	LS	Collection System Repair	950 Woodlawn Avenue			
13	1	LS	Collection System Repair	1835 Parkview Avenue			
14	1	LS	Collection System Repair	2323 Burrmont Road			
15	1	LS	Collection System Repair	3816 Brendenwood Road			

Item No.	Quantity	Unit	Description		Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
16	1	LS	Collection System Repair	2509 Central Avenue			
17	1	LS	Collection System Repair	5209 East Drive			
18	1	LS	Collection System Repair	Intersection of Marion Avenue and Hillcrest Road			
19	1	LS	Collection System Repair	7723 Elm Avenue			
20	1	LS	Collection System Repair	204 Shoreland Road			
21	1	LS	Collection System Repair	Interchange of East State Street and Interstate 90			
22	1	LS	Collection System Repair	5266 Rowena Drive			
23	5	CY	Rock Excavation				
24	200	SF	PCC Sidewalk				
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: 2025 Collection System Repairs, Capital Project No. 2654

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

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

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

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

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

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

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

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

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

Signature

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

Notary Public

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we:

_____ (hereinafter called the Principal)
and

_____ (hereinafter called the Surety)

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

WHEREAS, the Principal is about to submit, or has submitted to FRSA, a proposal for the 2025 Collection System Repairs project which consists of various repairs throughout the FRSA's sanitary sewer system. Work includes removal and replacement of existing manholes, pipes, fill materials, pavements and all other appurtenances as indicated on the plans and in the specifications.

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

NOW THEREFORE, The conditions of this obligation are such that if the Proposal be accepted, the Principal shall, within ten days after the date of receipt of a written notice of award of Contract, execute a Contract in accordance with the Proposal and upon the terms, conditions, and prices set forth therein, in the form and manner required by FRSA, and execute a sufficient and satisfactory Contract Performance Bond payable to said FRSA in an amount of one hundred percent (100%) of the Contract price (including alternates) in form and with security satisfactory to said FRSA, then this obligation to be void, otherwise to be and remain in full force and virtue in law; and the Surety shall, upon failure of the Principal to comply with any or all of the foregoing requirements within the time specified above, immediately pay to the aforesaid FRSA, upon demand, the amount hereof in good and lawful money of the United States of America, not as a penalty, but as liquidated damages.

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

Principal

(Seal)

By _____
Name: _____
Title: _____
Date: _____

Attest:

Secretary

Surety

(Seal)

By _____
Name: _____
Title: _____
Date: _____

Agreement

1. General

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

2. Scope of Work

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

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

3. Contract Price

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

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

4. Bond

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

5. Maintenance and Guarantee

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

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

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

6. Contract Execution

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

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

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

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

7. Payments to Contractor

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

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

8. Subcontracts

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

9. Contractor's Responsibility

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10. Time

Work under this Agreement shall be commenced upon written Notice to Proceed. The completion date for this project shall be October 31, 2025.

11. Liquidated Damages

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

12. Counterparts

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

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

13. Seals

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

(Seal)

Four Rivers Sanitation Authority
Winnebago County, Illinois

By _____
President, Board of Trustees

ATTEST: _____
Clerk of the Board

Contractor

(Corporate Seal)

By _____
Contractor's Officer

Name: _____
Title: _____
Date: _____

ATTEST: _____

Labor & Material Payment Bond

TO: _____ Contractor Name
 _____ Contractor City, State

KNOW ALL MEN BY THESE PRESENTS

That _____ (Contractor)

as Principal, and _____

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

_____ Dollars (\$ _____), for the payment 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 Four Rivers Sanitation Authority 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 Oblige, the name of the person, firm or corporation by whom the claimant was employed or to whom such claimant furnished materials, the amount of the claim and a brief description of the public improvement for the construction or installation of which the contract is to be performed. No defect in the notice herein provided for shall deprive the claimant of its right of action under the terms and provisions of this Bond unless it shall affirmatively appear that such defect has prejudiced the rights of an interested party asserting the same.

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

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

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Performance Bond

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

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

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

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

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

CONTRACTOR

SURETY

Contractor Firm Name

By: _____
Signature

Printed Name

Title

By: _____
Attorney-in-Fact Signature

Printed Name

Resident Agent

ATTEST:

Corporate Secretary (Corporations only)

Section III

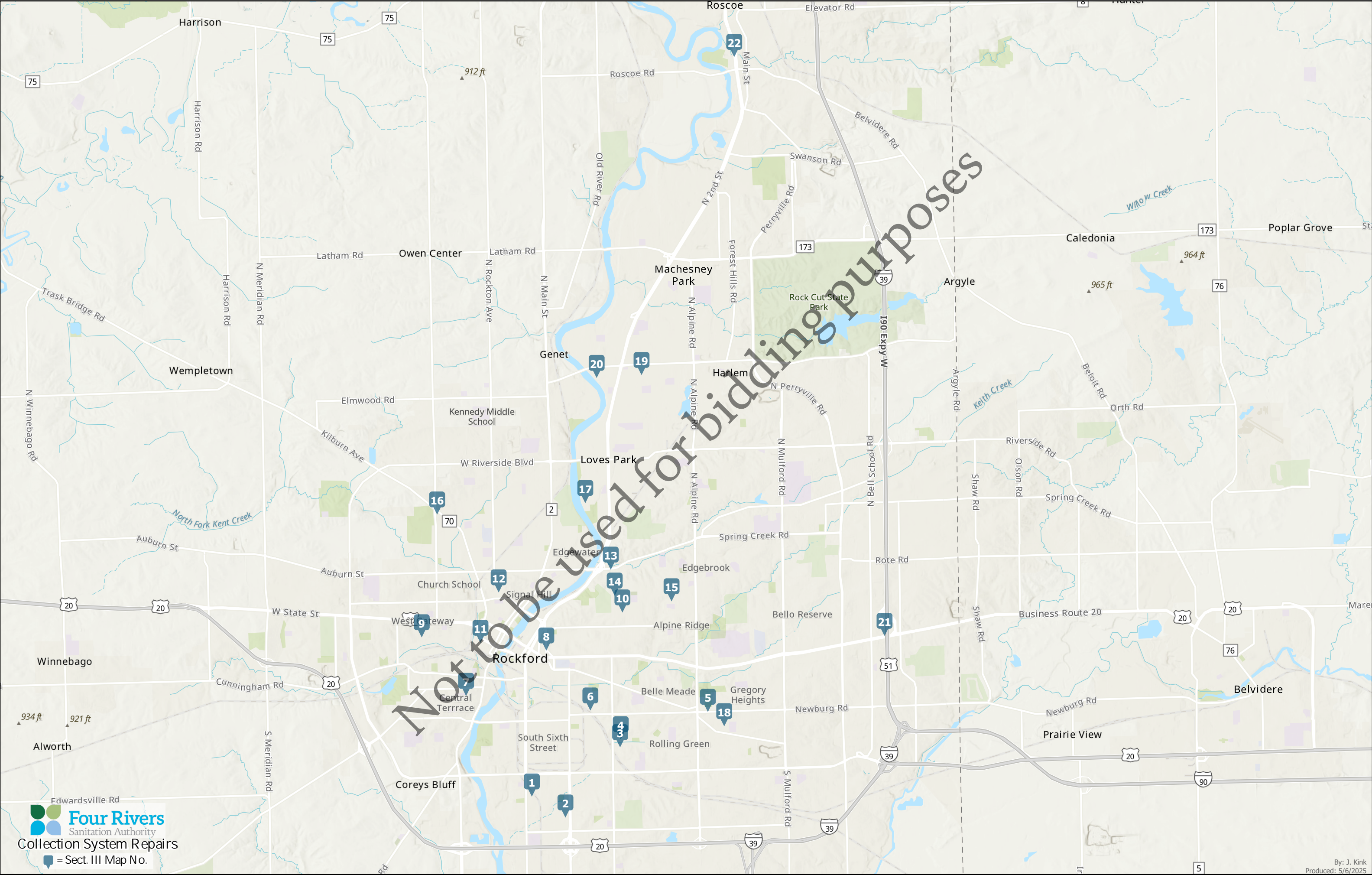
Repairs List, Location Maps, & Supporting Information

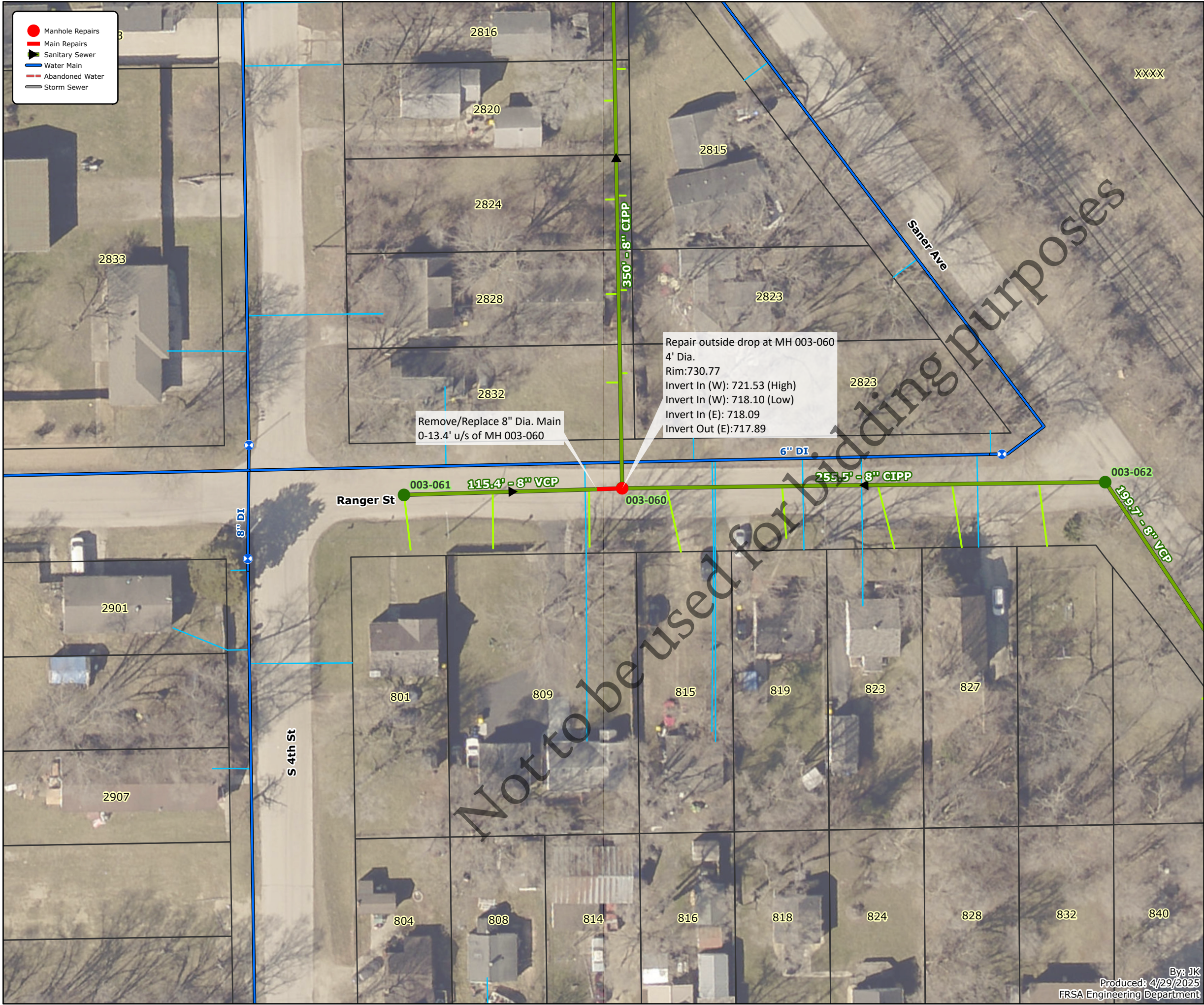
Four Rivers Sanitation Authority
2025 Collection System Repairs, Capital Project 2654
Section III - Repairs List and Summary

Map No./ Bid Item	Jurisdiction	Location	Manhole ID	SMain ID	Work Description - Sanitary Mains and Services	Work Description - Manholes
1	City of Rockford	809 Ranger Street		003-061-003-060	Remove/Replace 8" Dia. Main 0-13.4 u/s of MH 003-060.	Repair outside drop at MH 003-060, 4' Dia., Rim:730.77, Invert In (W):718.10, Invert In (E): 718.09, Invert Out (E):717.89.
2	City of Rockford	3205 Lapey Street	005-119		Reconnect service to 3205 Lapey Street to 8" Dia. Main. Reconnect service to 3206 Lapey Street to 8" Dia. Main.	Remove/Replace MH 005-119, 4' Dia., Rim: 725.77, Invert In (S): 718.22, Invert Out (N): 718.19. Relocate 10' south of existing.
3	City of Rockford	2220 22nd Street		011-079-011-078	Remove/Replace 8" Dia. Main 0-42.4'. Connect service to 2219 22nd Street to 8" Dia Main.	Connect to MH 011-079, 4' Dia., Rim:766.60, Invert In (S): 757.40, Invert Out (NW): 757.33. Connect to MH 011-078, 4' Dia., Rim:765.26, Invert In (SE): 757.06, Invert Out (N): 756.26.
4	City of Rockford	2115 22nd Street		011-186-011-122	Remove/Replace 8" Dia. Main 0-4' u/s of MH 011-122.	Connect to MH 011-122, 4' Dia., Rim: 749.91, Invert In (S): 738.38, Invert In (E): 737.45, Invert Out (W): 737.51.
5	City of Rockford	Intersection of Newburg Road and Oakdale Street		020-066-020-065	Remove/Replace 8" Dia. Main 40-62' and 300-340' d/s of MH 020-066.	
6	City of Rockford	1906 Woodruff Avenue	026-015		Move service to 1906 Woodruff Avenue outside MH 026-015.	Remove/Replace MH 026-015, 4' Dia., Rim: 740.91, Invert In (NW): 733.41, Invert Out (E): 732.47.
7	City of Rockford	Intersection of Salter Avenue and West Street	030-017		Reconnect service to 1421 West Street to MH 030-017. Invert In (W): 741.87.	Remove/Replace MH 030-017, 4' Dia., Rim: 750.04, Invert In (S): 741.85, Invert In (N): 741.81, Invert Out (E): 741.64.
8	City of Rockford	207 Longwood Street	037-S02		Reconnect 6" Dia. Service through removed manhole.	Remove MH 037-S02, 4' Dia., Rim: 742.27, Invert In (E): 735.09, Invert Out (W): 735.04.
9	City of Rockford	Intersection of Berkley Street and Webster Avenue	044-046			Remove/Replace MH 044-046, 4' Dia., Rim: 728.05, Invert In (N): 720.05, Invert Out (E): 719.45.
10	City of Rockford	Intersection of Guilford Road and James Avenue		050-061-050-059	Remove/Replace 8" Dia. Main 0-70' d/s of MH 050-061.	Connect to MH 050-061, 4' Dia., Rim: 821.65, Invert In (W): 812.03, Invert In (N): 811.88, Invert Out (E): 811.86.
11	City of Rockford	Intersection of South Rockton Avenue and Green Street		058-026-058-113	Remove/Replace 9" Dia. Main (w/ 10" PVC) 16-30' d/s of MH 058-026.	
12	City of Rockford	950 Woodlawn Avenue		060-041-060-040	Remove/Replace 9" Dia. Main (w/ 10" PVC) 142-160' d/s of MH 060-041. Reconnect service to 950 Woodlawn Avenue to 10" Dia. Main.	
13	City of Rockford	1835 Parkview Avenue		064-050-073-138	Remove/Replace 10" Dia. Main 209-213' d/s of MH 064-50. Remove conduit bored through pipe.	
14	City of Rockford	2323 Burrmont Road	064-055			Install MH 064-055, 4' Dia., Estimated Rim≈813.77, Invert Out (E)≈ 805.18
15	City of Rockford	3816 Brendenwood Road		066-067-066-131	Remove/Replace 8" Dia. Main 0-12' d/s of MH 066-067.	Remove/Replace MH 066-067, 4' Dia., Rim: 830.35, Invert In (E): 820.87, Invert Out (W): 820.95. Invert out currently 0.08' higher than invert in. Use 12' of sewer to north to achieve positive drainage through manhole.
16	City of Rockford	2509 Central Avenue		076-076-076-017	Remove/Replace 8" Dia. Main 71.7-86' d/s/ of MH 076-076. Reconnect service to 2509 Central Avenue to 8" Dia. Main.	
17	City of Loves Park	5209 East Drive		082-036-082-037	Remove/Replace 8" Dia. Main 0-15' u/s of MH 082-037.	Connect to MH 082-037, 4' Dia., Rim: 711.90, Invert In (N-27"): 695.61, Invert In (N-8"): 699.35, Invert Out (SE): 695.57.
18	Rockford Township	Intersection of Marion Avenue and Hillcrest Road		107-022-107-018	Remove/Replace 8" Dia. Main 0-25' u/s/ of MH 107-018.	Connect to MH 107-018, 4' Dia., Rim: 860.86, Invert In (E): 848.76, Invert In (N): 849.14, Invert In (S): 849.27, Invert Out (W): 848.75.
19	Village of Machesney Park	7723 Elm Avenue		123-049A-123-087	Remove/Replace 8" Dia. Main 75-120' d/s of MH 123-049A. Reconnect service to 7723 Elm Avenue to 8" Dia. Main.	
20	Village of Machesney Park	204 Shoreland Road		124-008-124-007	Remove/Replace 8" Dia. Main 16-28.5' d/s of MH 124-008.	
21	IDOT	Interchange of East State Street and Interstate 90	145-072		Remove/Replace 8" Dia. Main 0-12' u/s north of MH 145-072.	Remove/Replace MH 145-072, 4' Dia., Rim:845.73, Invert In (N): 836.23, Invert In (SW): 836.28, Invert Out (E): 836.23. Remove existing abandoned force main and appurtenances within manhole excavation limits. Invert out currently matches north invert in. Use 12' of sewer to north to achieve postive drainage through manhole.
			145-105			Remove/Replace MH 145-105, 4' Dia., Rim:839.43, Invert In (SW): 831.68, Invert Out (SE): 831.40. Remove existing abandoned force main and appurtenances within manhole excavation limits.
22	IDOT	5266 Rowena Drive	300-273			Remove/Replace outside drop broken fitting at MH 300-273, 4' Dia., Rim: 724.07, Invert In (S): 716.63, Invert In (S): 708.56, Invert Out (N): 708.53.

Four Rivers Sanitation Authority
2025 Collection System Repairs, Capital Project 2654
Section III - Repairs List and Summary

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5	City of Rockford	Intersection of Newburg Road and Oakdale Street		020-066-020-065	Remove/Replace 8" Dia. Main 40-62' and 300-340' d/s of MH 020-066.	
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7	City of Rockford	Intersection of Salter Avenue and West Street	030-017		Reconnect service to 1421 West Street to MH 030-017. Invert In (W): 741.87.	Remove/Replace MH 030-017, 4' Dia., Rim: 750.04, Invert In (S): 741.85, Invert In (N): 741.81, Invert Out (E): 741.64.
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10	City of Rockford	Intersection of Guilford Road and James Avenue		050-061-050-059	Remove/Replace 8" Dia. Main 0-70' d/s of MH 050-061.	Connect to MH 050-061, 4' Dia., Rim: 821.65, Invert In (W): 812.03, Invert In (N): 811.88, Invert Out (E): 811.86.
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13	City of Rockford	1835 Parkview Avenue		064-050-073-138	Remove/Replace 10" Dia. Main 209-213' d/s of MH 064-50. Remove conduit bored through pipe.	
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15	City of Rockford	3816 Brendenwood Road		066-067-066-131	Remove/Replace 8" Dia. Main 0-12' d/s of MH 066-067.	Remove/Replace MH 066-067, 4' Dia., Rim: 830.35, Invert In (E): 820.87, Invert Out (W): 820.95. Invert out currently 0.08' higher than invert in. Use 12' of sewer to north to achieve positive drainage through manhole.
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17	City of Loves Park	5209 East Drive		082-036-082-037	Remove/Replace 8" Dia. Main 0-15' u/s of MH 082-037.	Connect to MH 082-037, 4' Dia., Rim: 711.90, Invert In (N-27"): 695.61, Invert In (N-8"): 699.35, Invert Out (SE): 695.57.
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19	Village of Machesney Park	7723 Elm Avenue		123-049A-123-087	Remove/Replace 8" Dia. Main 75-120' d/s of MH 123-049A. Reconnect service to 7723 Elm Avenue to 8" Dia. Main.	
20	Village of Machesney Park	204 Shoreland Road		124-008-124-007	Remove/Replace 8" Dia. Main 16-28.5' d/s of MH 124-008.	
21	IDOT	Interchange of East State Street and Interstate 90	145-072		Remove/Replace 8" Dia. Main 0-12' u/s north of MH 145-072.	Remove/Replace MH 145-072, 4' Dia., Rim:845.73, Invert In (N): 836.23, Invert In (SW): 836.28, Invert Out (E): 836.23. Remove existing abandoned force main and appurtenances within manhole excavation limits. Invert out currently matches north invert in. Use 12' of sewer to north to achieve postive drainage through manhole.
			145-105			Remove/Replace MH 145-105, 4' Dia., Rim:839.43, Invert In (SW): 831.68, Invert Out (SE): 831.40. Remove existing abandoned force main and appurtenances within manhole excavation limits.
22	IDOT	5266 Rowena Drive	300-273			Remove/Replace outside drop broken fitting at MH 300-273, 4' Dia., Rim: 724.07, Invert In (S): 716.63, Invert In (S): 708.56, Invert Out (N): 708.53.





General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Estimated Construction Quantities:
 - a. 13.4 LF; 8" Dia., SDR 35, PVC, ASTM D 3034/ D 3212
 - b. 114 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 114 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 1

1 inch = 50 feet

By: JK
Produced: 4/29/2025
FRSA Engineering Department



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0310	Work order no.: 101519	Project name: PACP003120822	Start date/time: 20221213 14:03	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: N	Date cleaned:

Location:

Pipe segment ref.: SMH-003061 - SMH-003060	Street: 801 RANGER ST	Location code: C
City: ROCKFORD	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 115.400 ft.	Length surveyed: 115.400 ft.
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Measurements:

Upstream MH No: 003061	Rim to invert: 9.000 ft.	Downstream MH No: 003060	Rim to invert: 13.000 ft.
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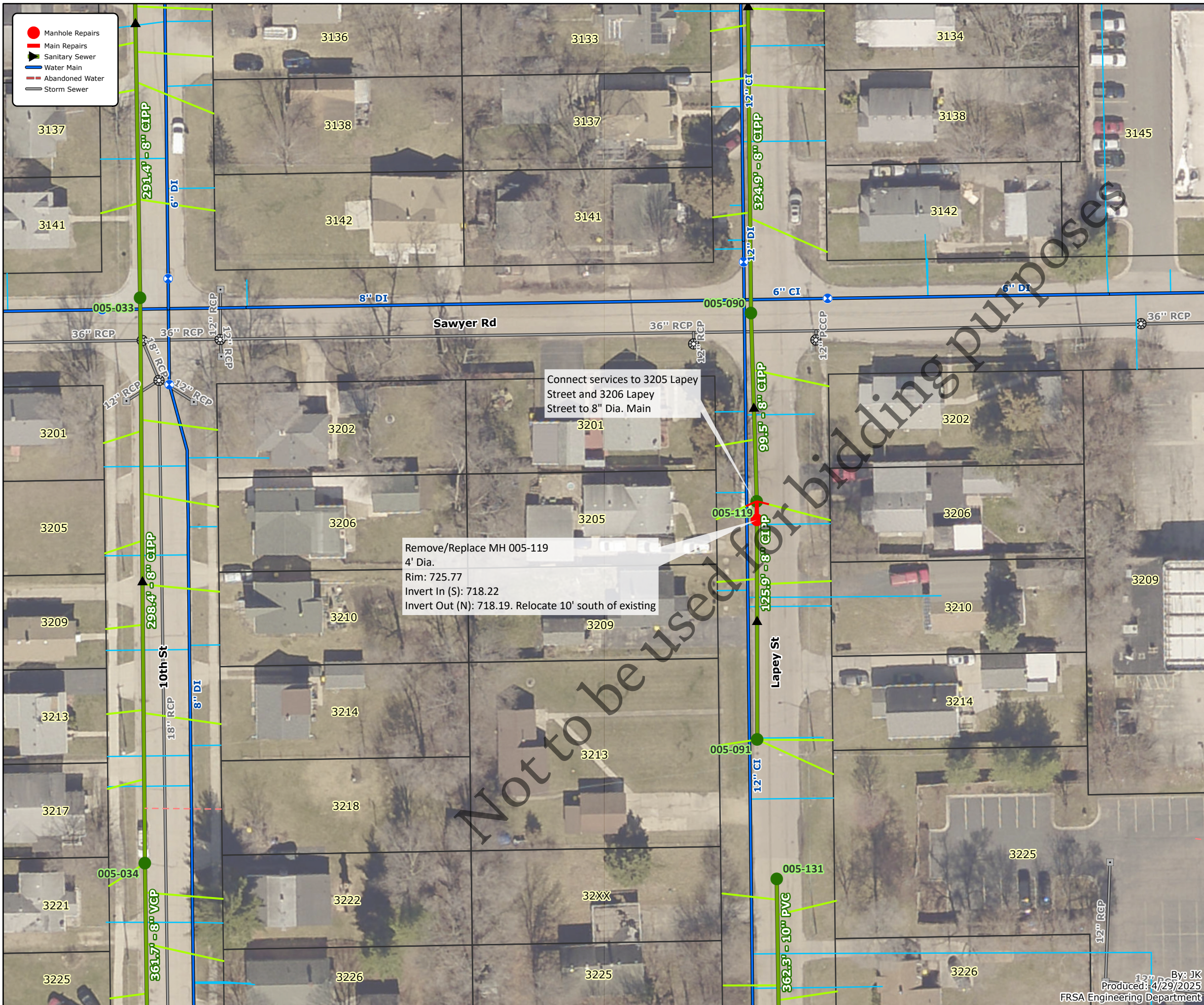
Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	003061
0.0 ft.	MWL	Miscellaneous Water Level			1	<input type="checkbox"/>	/	
8.4 ft.	RFJ	Roots Fine Joint				<input checked="" type="checkbox"/>	7 / 5	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
12.5 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	7 /	5	
16.7 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	3 /		
20.8 ft.	RFJ	Roots Fine Joint	S01				<input checked="" type="checkbox"/>	8 /	4	
35.1 ft.	RFJ	Roots Fine Joint	F01				<input checked="" type="checkbox"/>	8 /	4	
41.1 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	10 /		
50.7 ft.	TF	Tap Factory		6.000			<input type="checkbox"/>	3 /		VCP
50.7 ft.	RFL	Roots Fine Lateral					<input type="checkbox"/>	8 /	3	
52.2 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	10 /	5	
55.4 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	7 /	10	
58.2 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	7 /	12	
58.2 ft.	CL	Crack Longitudinal					<input type="checkbox"/>	12 /		
67.3 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	7 /	8	
76.3 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	10 /		
101.2 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	3 /		VCP
110.6 ft.	BSV	Broken Soil Visible					<input type="checkbox"/>	3 /	5	
112.3 ft.	TF	Tap Factory		8.000			<input type="checkbox"/>	6 /		VCP
115.4 ft.	AMH	Manhole					<input type="checkbox"/>	/		003060



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify owners of 3205 Lapey Street and 3206 Lapey Street five (5) business days prior to beginning construction.
2. Estimated Construction Quantities:
 - a. 10.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 1 EA; 4' Dia., Sanitary Manhole, Complete with new Frame & Lid
 - c. 31 SY; Compacted Aggregate Base Course, 12" Thick
 - d. 31 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - e. 19 SY; Turf Restoration
 - f. 2 EA; Sanitary Service Reconnection

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 2

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Operator: 0051	Work order no.: 78561	Project name: TVINSP005032318	Start date/time: 20180327 13:41	Reason: Regular
Direction: With the flow	Orig_Weather:	Inspection Status:	Pre-cleaning:	Date cleaned:

Location:

Mainline ID: SMH-005091 - SMH-005119	Address:	Surface condition: ASPH
City: ROCKFORD	Further location details:	

Pipe:

Pipe shape: CIRC	Pipe material: LINCIP	Lining method:	Pipe height: 0.0 in.	Asset length: 125.9 ft.	Surveyed distance: 125.9 ft.
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Measurements:

Upstream node: 005091	Rim to invert: 7.2 ft.	Downstream node: 005119	Rim to invert:
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	M	MANHOLE				<input type="checkbox"/>	/	
82.1 ft.	L	LATERAL				<input type="checkbox"/>	2 /	PVC
84.4 ft.	L	LATERAL				<input type="checkbox"/>	9 /	VCP LIGHT ROOTS

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
125.9 ft.	M	MANHOLE					<input type="checkbox"/>	/		LIGHT ROOTS GROWING IN BETWEEN BARREL SECTIONS

Not to be used for bidding purposes



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify City of Rockford Water Division 48 hours, minimum, prior to beginning construction. Contact matt.baillargeon@rockfordil.gov. Contractor shall notify owner of 2219 22nd Street five (5) business days prior to beginning construction.
2. A utility pole is located within 10' of manhole 011-079.
3. Estimated Construction Quantities:
 - a. 42.4 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 56 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 56 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - d. 30 SY; PCC Driveway Pavement Removal and Replacement, 6"
 - e. 36 LF; PCC Curb and Gutter Removal and Replacement
 - f. 72 SF; PCC Sidewalk Removal and Replacement, 4" Thick
 - g. 1 EA; Sanitary Service Reconnection
 - h. 26 SY; Turf Restoration

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 3

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Operator: 0051	Work order no.: _____	Project name: TVINSP011	Start date/time: 20150326 09:22	Reason: _____
Direction: With the flow	Orig_Weather: _____	Inspection Status: _____	Pre-cleaning: _____	Date cleaned: _____

Location:

Mainline ID: SMH-011079 - SMH-011078	Address: 22ND	Surface condition: ASPH
City: ROCKFORD	Further location details: _____	

Pipe:

Pipe shape: CIRC	Pipe material: VCP	Lining method: _____	Pipe height: 8.0 in.	Asset length: 42.0 ft.	Surveyed distance: 42.0 ft.
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Measurements:

Upstream node: 011079	Rim to invert: 9.4 in.	Downstream node: 011078	Rim to invert: 8.9 in.
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Additional Information: CIP PROJECT

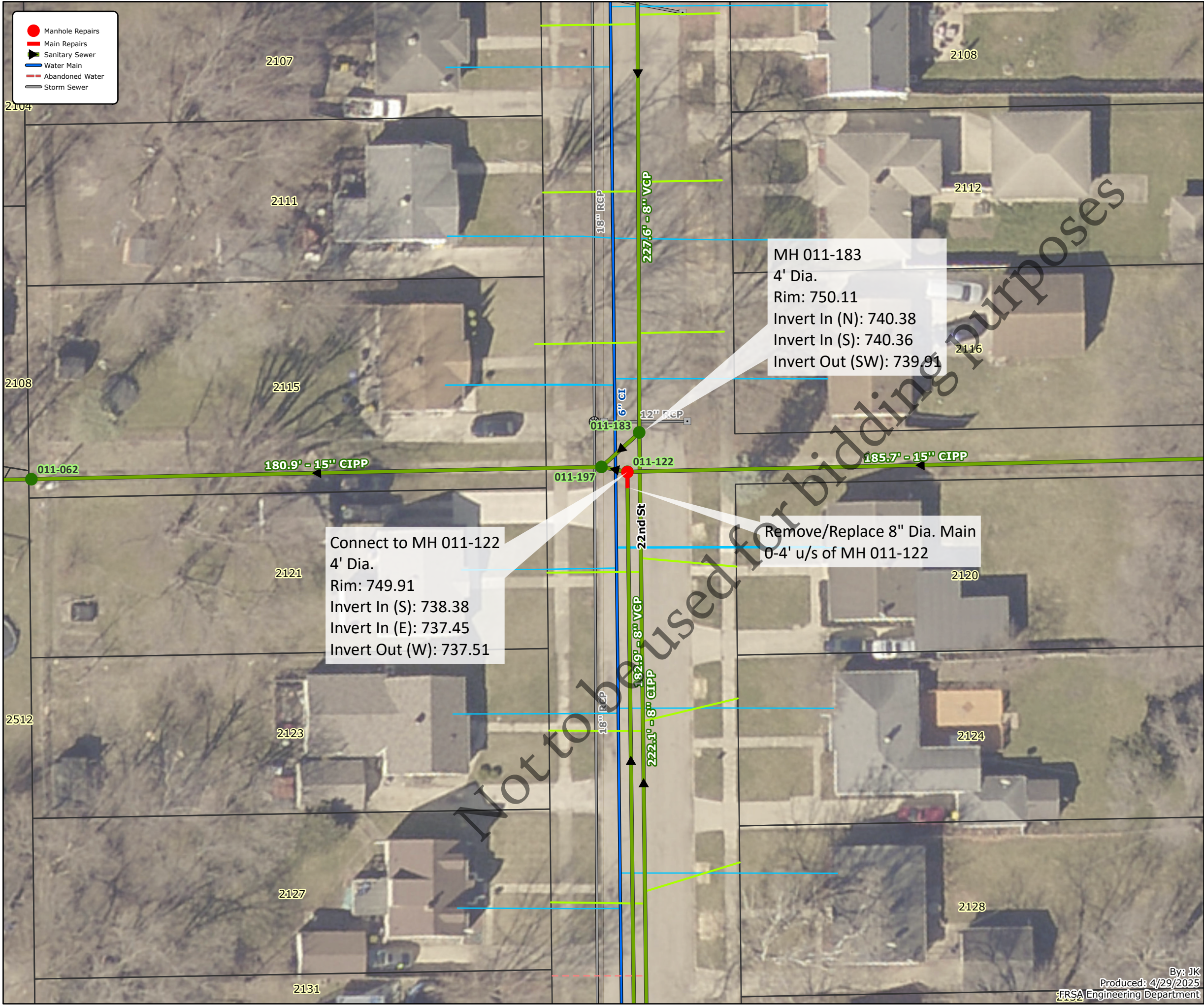
Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
0.0 ft.	M	MANHOLE					<input type="checkbox"/>	/		
16.7 ft.	R	ROOTS					<input type="checkbox"/>	/		
26.2 ft.	A	ALIGNMENT					<input type="checkbox"/>	/		

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
32.3 ft.	R	ROOTS					<input type="checkbox"/>	/		
36.2 ft.	R	ROOTS					<input type="checkbox"/>	/		
39.5 ft.	LC	CRACK					<input type="checkbox"/>	12 / 12		LIGHT
40.4 ft.	A	ALIGNMENT					<input type="checkbox"/>	/		MEDIUM SAG
42.0 ft.	M	MANHOLE					<input type="checkbox"/>	/		

Not to be used for bidding purposes



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Estimated Construction Quantities:
 - a. 4.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 81 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 81 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
2. 8" sanitary sewer entering manhole 011-183 to the south is roughly 1.7' above the 15" sanitary sewer entering manhole 011-122 to the east.

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 4

1 inch = 30 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0310	Work order no.: 103257	Project name: PACP011050423	Start date/time: 20230515 07:44	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: N	Date cleaned:

Location:

Pipe segment ref.: SMH-011186 - SMH-011122	Street: 2131 22ND ST	Location code: C
City: ROCKFORD	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 182.900 ft.	Length surveyed: 182.900 ft.
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Measurements:

Upstream MH No: 011186	Rim to invert: 0.000 ft.	Downstream MH No: 011122	Rim to invert: 10.500 ft.
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Additional Information:

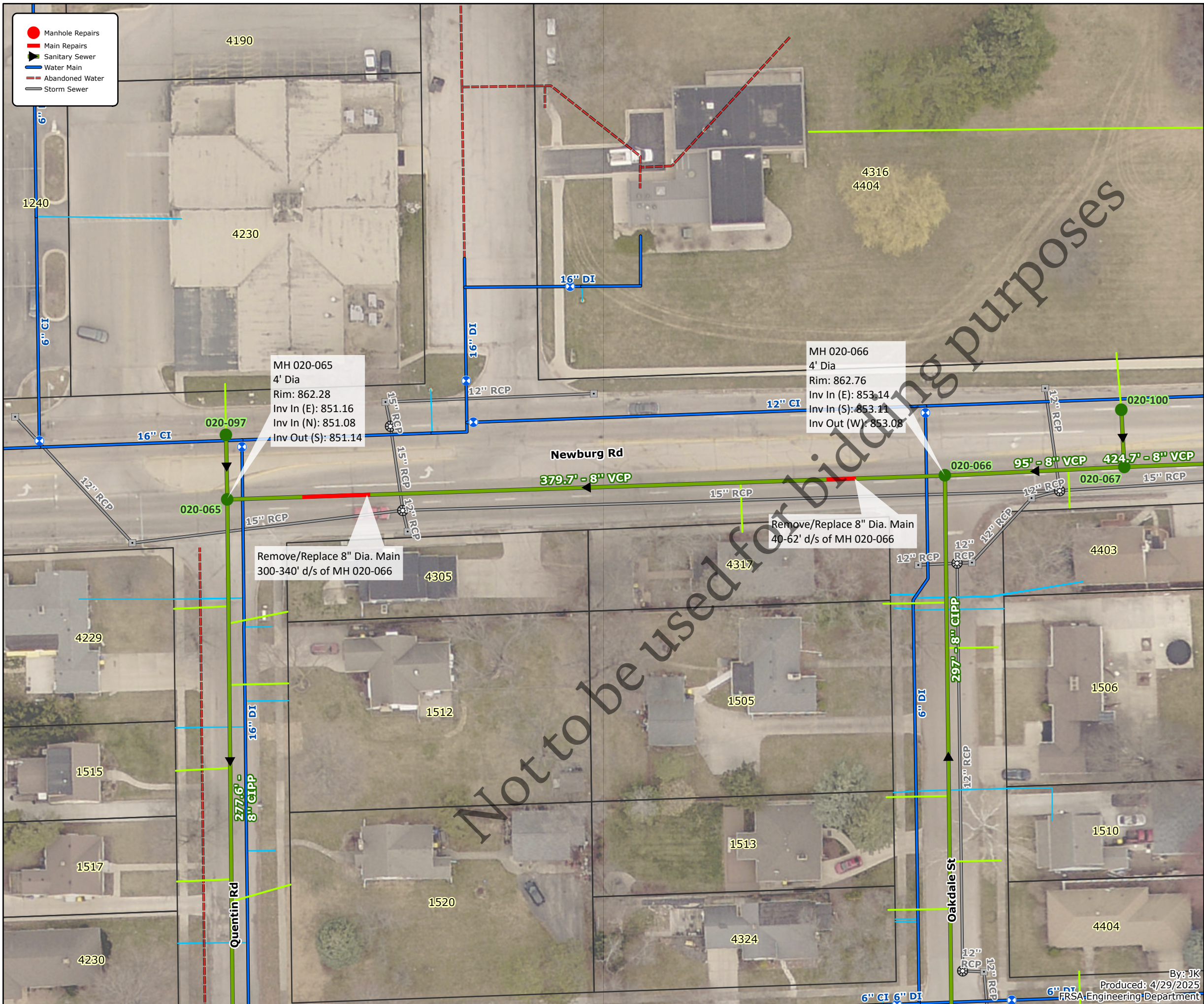
Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	011186
0.0 ft.	MWL	Miscellaneous Water Level			10	<input type="checkbox"/>	/	
181.6 ft.	B	Broken				<input type="checkbox"/>	12 / 12	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
182.0 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	9	/	
182.9 ft.	AMH	Manhole					<input type="checkbox"/>	/		011122

Not to be used for bidding purposes



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Estimated Construction Quantities:
 - a. 62.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 227 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 227 SY; HMA Pavement, 2.0" HMA SC/ 6.0" HMA BC
2. See Traffic Control - Item 5 for required detour of Newburg Road.

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 5

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 3793	Work order no.: 	Project name: CSQ020052224	Start date/time: 20240522 10:24	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: N	Date cleaned: 20220502

Location:

Pipe segment ref.: SMH-020-066 - SMH-020-065	Street: Newburg Rd	Location code: B
City: Rockford	Location details: 	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 379.700 ft.	Length surveyed: 379.700 ft.
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Measurements:

Upstream MH No: 020-066	Rim to invert: 9.680 ft.	Downstream MH No: 020-065	Rim to invert: 11.140 ft.
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	020-066
0.0 ft.	MWL	Miscellaneous Water Level			10	<input type="checkbox"/>	/	
2.0 ft.	FS	Fracture Spiral				<input type="checkbox"/>	12 / 12	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
104.8 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	9 /		VCP
298.9 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	9 /		VCP
363.6 ft.	RPR	Point Repair Replacement					<input type="checkbox"/>	/		PVC - Completed on 4/11/24
379.7 ft.	AMH	Manhole					<input type="checkbox"/>	7		020-065

Not to be used for bidding purposes



General Notes:

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

Notes regarding traffic control:

1. Notify the City of Rockford 48 hours, minimum, prior to implementation of road closure.
Contacts:
 - a. Jordan Masemore, (779) 348-7634, jordan.masemore@rockfordil.gov
 - b. Jacob Hennelly, (779) 348-7174, jacob.hennelly@rockfordil.gov
2. Signage and barricades for closure of Newburg Road shall conform to IDOT Standard 40.1.
3. All temporary traffic control devices shall comply with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), current edition.

Manhole Repairs

Main Repairs

Sanitary Sewer

Water Main

Abandoned Water

Storm Sewer



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify City of Rockford Water Division 48 hours, minimum, prior to beginning construction. Contact matt.baillargeon@rockfordil.gov. Contractor shall notify owners of 1904 Woodruff Avenue and 1906 Woodruff Avenue five (5) business days prior to start of beginning construction.
2. 12" storm sewer is present immediately east of sanitary sewer 026-070-026-015 at a depth of approximately 30".
3. Estimated Construction Quantities:
 - a. 7.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034/ D 3212
 - b. 1 EA; 4' Dia., Sanitary Manhole, Complete w/ new Frame & Lid
 - c. 65 SY; Compacted Aggregate Base Course, 12" Thick
 - d. 65 SY; HMA Pavement, 1.5" HMA SC/2.5" HMA BC
 - e. 12 LF; 12" Dia., Storm Sewer Removal and Replacement
 - f. 21 LF; PCC Curb and Gutter Removal and Replacement
 - g. 1 EA; Sanitary Service Reconnection
 - h. 5 SY; Turf Restoration

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 6

1 inch = 50 feet

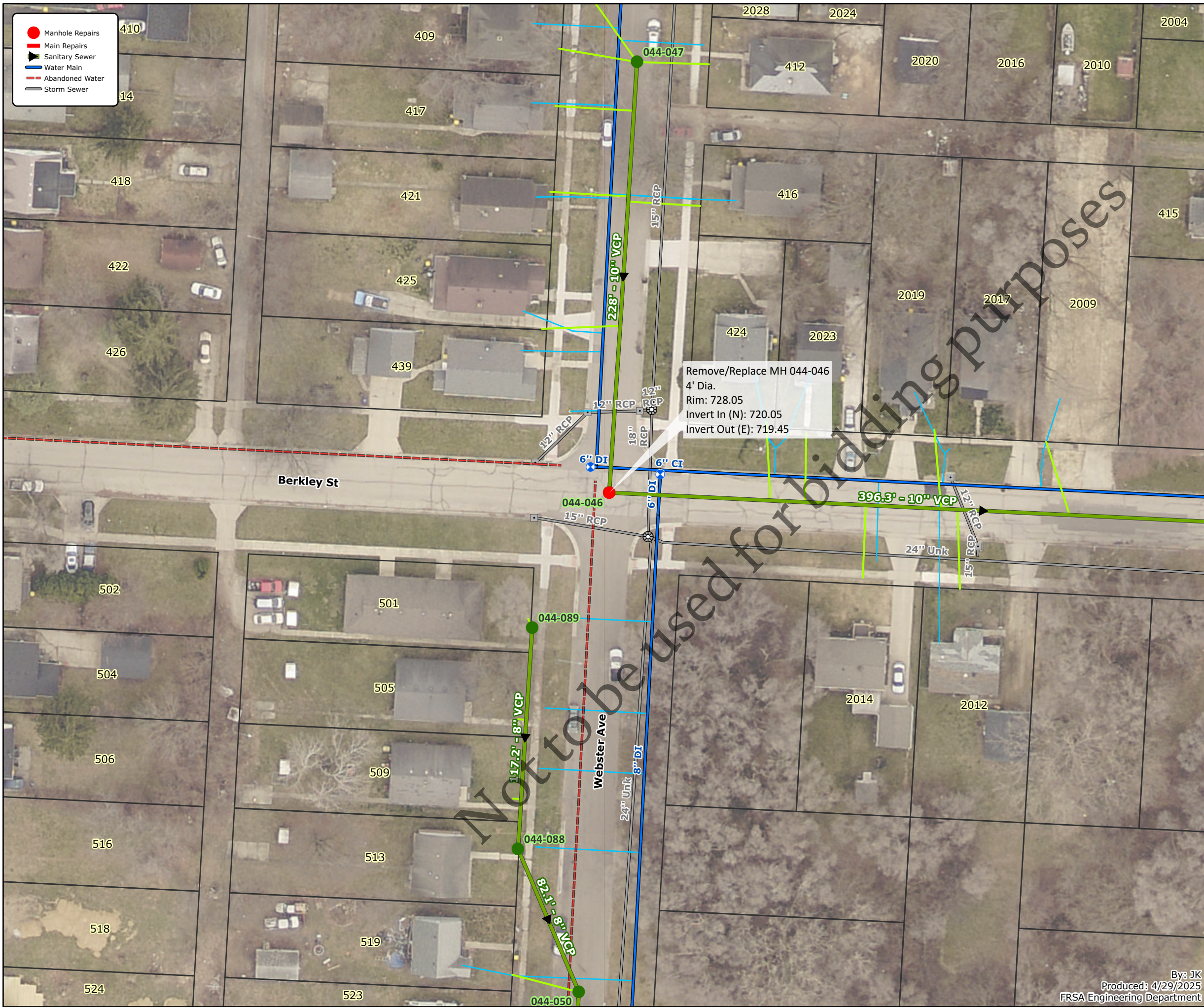


General Notes:

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

Notes regarding traffic control:

1. Notify the City of Rockford 48 hours, minimum, prior to implementation of road closure.
Contacts:
 - a. Jordan Masemore, (779) 348-7634, jordan.masemore@rockfordil.gov
 - b. Jacob Hennelly, (779) 348-7174, jacob.hennelly@rockfordil.gov
2. Signage and barricades for closure of 9th Street and Longwood Street shall conform to IDOT Standard 40.1.
3. All temporary traffic control devices shall comply with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), current edition.



General Notes:

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

Roadway Authority: City of Rockford

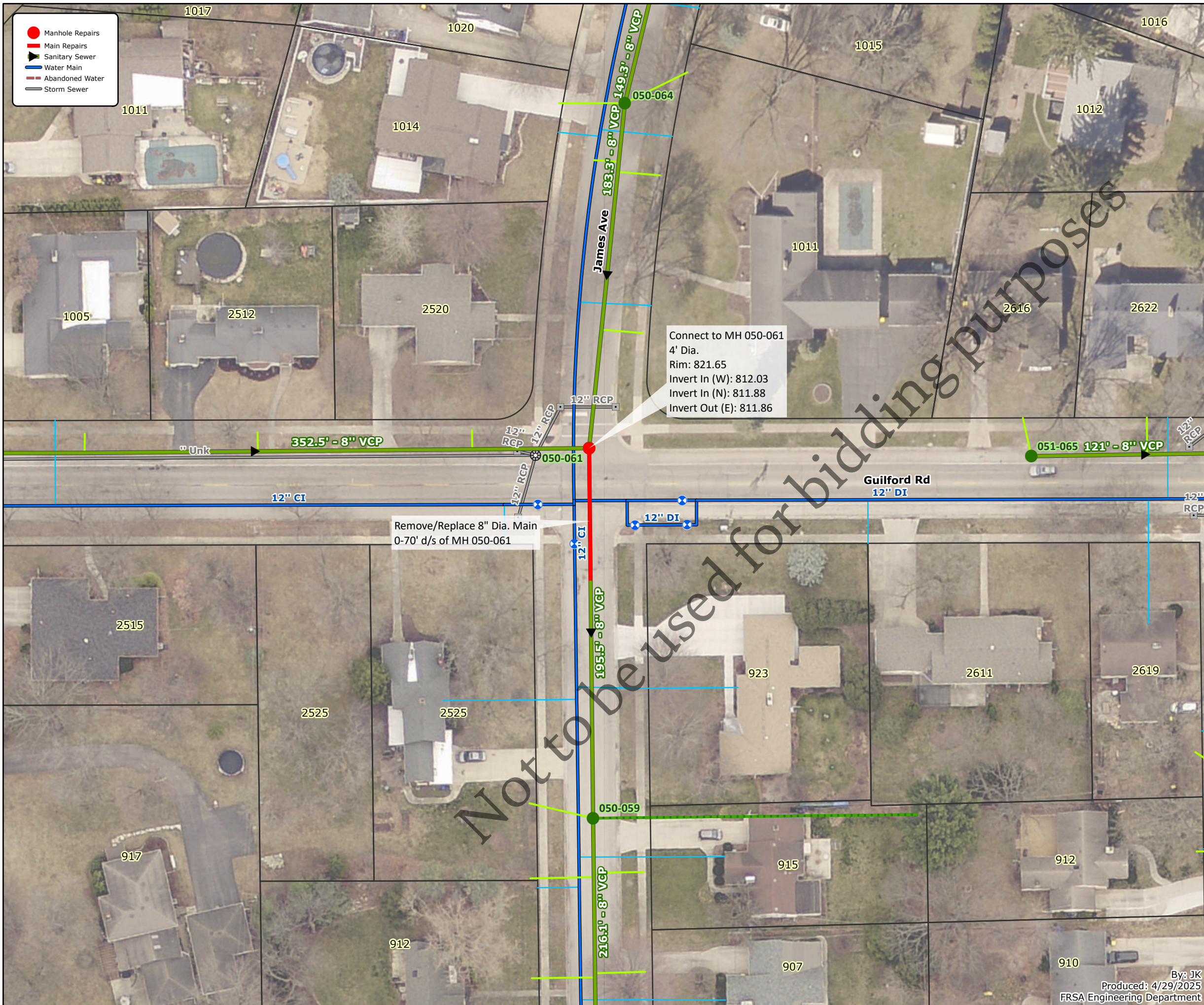
Site Specific Considerations and Estimated Incidental Work Items:

1. Estimated Construction Quantities:
 - a. 1 EA; 4' Dia., Sanitary Manhole, Complete with new Frame & Lid
 - b. 52 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 52 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 9

1 inch = 50 feet



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify City of Rockford Water Division 48 hours, minimum, prior to beginning construction. Contact matt.baillargeon@rockfordil.gov.
2. Estimated Construction Quantities:
 - a. 1 EA; 4' Dia., Sanitary Manhole, Complete w/ new Frame & Lid
 - b. 70.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 200 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 56 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - d. 144 SY; HMA Pavement, 2.0" HMA SC/ 6.0" HMA BC
3. See Traffic Control - Item 10 for require detour of Guilford Road.

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 10

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0051	Work order no.: 87738	Project name: PACP050111919	Start date/time: 20191210 10:24	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: X	Date cleaned:

Location:

Pipe segment ref.: SMH-050061 - SMH-050059	Street: JAMES AVE	Location code: A
City: ROCKFORD	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 195.500 ft.	Length surveyed: 195.500 ft.
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Measurements:

Upstream MH No: 050061	Rim to invert: 9.500 ft.	Downstream MH No: 050059	Rim to invert: 9.000 ft.
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	050061
0.0 ft.	MWL	Miscellaneous Water Level			10	<input type="checkbox"/>	/	
1.0 ft.	RPZD	Point Repair Other Defective				<input type="checkbox"/>	/	BAD AMKRETE

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
11.8 ft.	MWLS	Miscellaneous Water Level Sag	S01			50	<input type="checkbox"/>	/		
26.1 ft.	CS	Crack Spiral					<input type="checkbox"/>	10 / 2		
30.1 ft.	MWLS	Miscellaneous Water Level Sag	F01			5	<input type="checkbox"/>	/		
44.4 ft.	MWLS	Miscellaneous Water Level Sag	S02			75	<input type="checkbox"/>	/		
67.4 ft.	MWLS	Miscellaneous Water Level Sag	F02			5	<input type="checkbox"/>	/		
80.4 ft.	RPP	Point Repair Patch					<input type="checkbox"/>	2 /		PATCHED PIPE
105.0 ft.	FS	Fracture Spiral					<input type="checkbox"/>	1 / 5		
174.5 ft.	CS	Crack Spiral					<input type="checkbox"/>	8 / 11		
186.7 ft.	CS	Crack Spiral					<input type="checkbox"/>	9 / 10		
190.8 ft.	CC	Crack Circumferential					<input type="checkbox"/>	12 / 12		
195.5 ft.	AMH	Manhole					<input type="checkbox"/>	/		050059

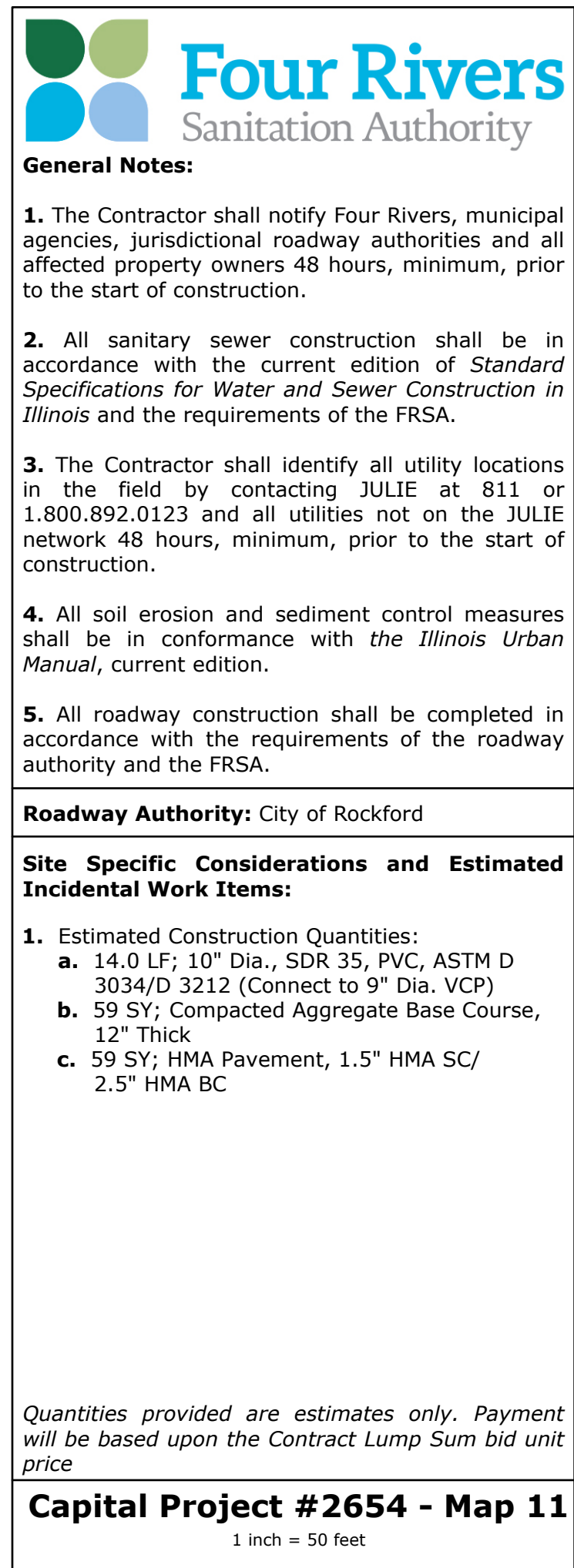


General Notes:

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

Notes regarding traffic control:

1. Notify the City of Rockford 48 hours, minimum, prior to implementation of road closure.
Contacts:
 - a. Jordan Masemore, (779) 348-7634, jordan.masemore@rockfordil.gov
 - b. Jacob Hennelly, (779) 348-7174, jacob.hennelly@rockfordil.gov
2. Signage and barricades for closure of Guilford Road shall conform to IDOT Standard 40.1.
3. All temporary traffic control devices shall comply with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), current edition.



Capital Project #2654 - Map 11
1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Operator: 0051	Work order no.: 80060	Project name: TVINSP058062118	Start date/time: 20180625 13:01	Reason: Regular
Direction: With the flow	Orig_Weather:	Inspection Status:	Pre-cleaning:	Date cleaned:

Location:

Mainline ID: SMH-058026 - SMH-058113	Address: S ROCKTON AVE	Surface condition: ASPH
City:	Further location details:	

Pipe:

Pipe shape: CIRC	Pipe material: VCP	Lining method:	Pipe height: 0.0 in.	Asset length: 391.4 ft.	Surveyed distance: 391.4 ft.
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Measurements:

Upstream node: 058026	Rim to invert: -9,999.0 ft.	Downstream node: 058113	Rim to invert:
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Additional Information:

Observations

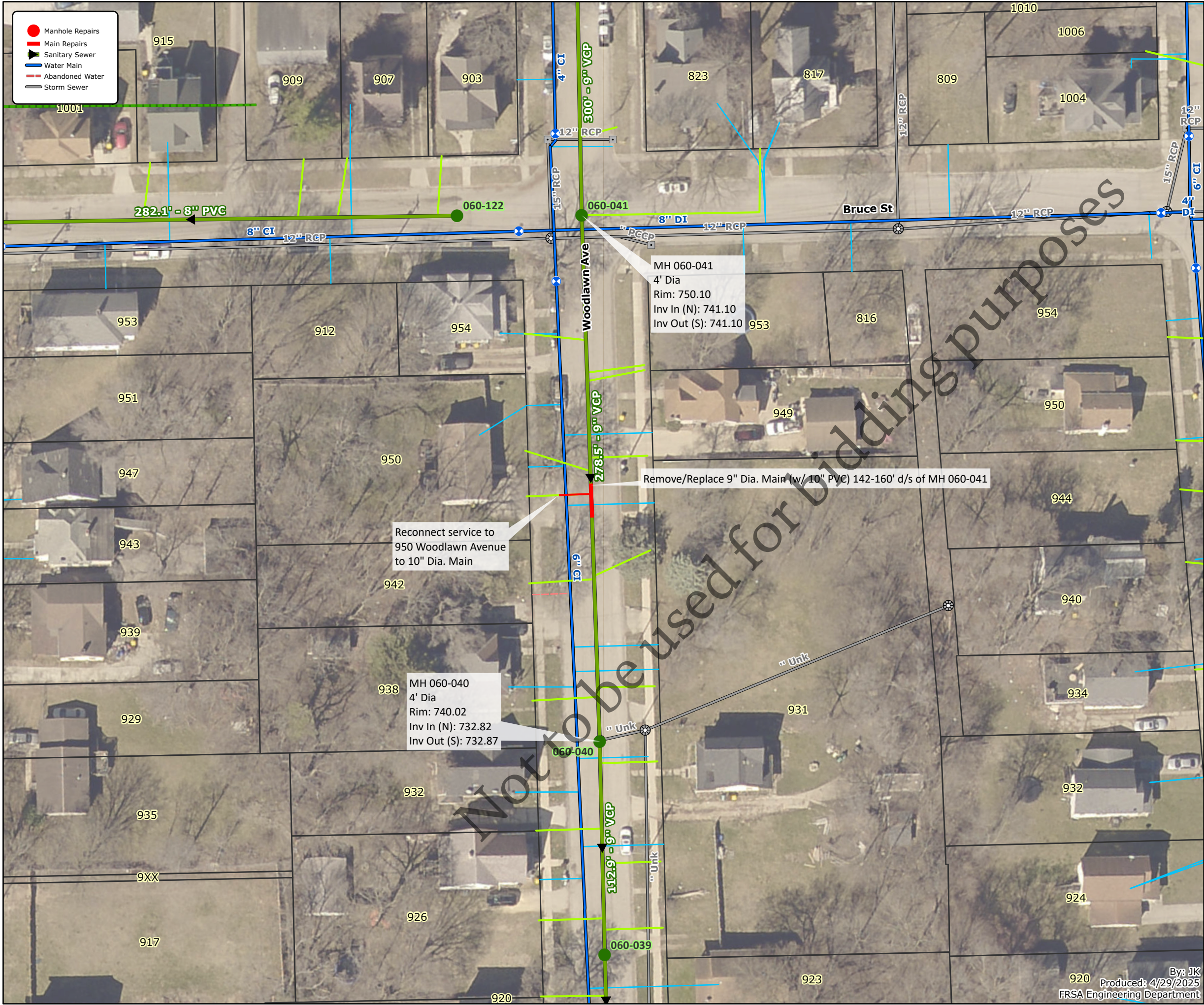
Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	M	MANHOLE				<input type="checkbox"/>	/	
17.1 ft.	BJ	BROKEN JOINT				<input type="checkbox"/>	11 / 1	
19.4 ft.	BJ	BROKEN JOINT				<input type="checkbox"/>	8 / 4	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
24.0 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	9 / 10		
25.2 ft.	O	OTHER					<input type="checkbox"/>	/		NINE INCH PIPE GOES SMALLER TO EIGHT INCH
26.9 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	5 / 7		
64.1 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	4 / 6		
65.1 ft.	L	LATERAL					<input type="checkbox"/>	12 /		VCP
67.2 ft.	L	LATERAL					<input type="checkbox"/>	10 /		VCP
78.2 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	8 / 4		
91.6 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP SERVICE NOT IN USE
111.6 ft.	L	LATERAL					<input type="checkbox"/>	10 /		VCP
114.1 ft.	L	LATERAL					<input type="checkbox"/>	9 /		VCP
121.0 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP
159.6 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP SERVICE NOT IN USE
192.8 ft.	L	LATERAL					<input type="checkbox"/>	9 /		VCP SERVICE NOT IN USE
197.5 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP SERVICE NOT IN USE
198.1 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	4 / 7		
205.7 ft.	L	LATERAL					<input type="checkbox"/>	10 /		VCP
207.6 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP
210.2 ft.	L	LATERAL					<input type="checkbox"/>	2 /		VCP
210.6 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	1 / 9		
230.7 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP
254.8 ft.	L	LATERAL					<input type="checkbox"/>	9 /		VCP SERVICE NOT IN USE
260.4 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	11 / 3		
262.0 ft.	L	LATERAL					<input type="checkbox"/>	2 /		VCP SERVICE NOT IN USE

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
264.6 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP
274.7 ft.	L	LATERAL					<input type="checkbox"/>	9 /		VCP
281.0 ft.	BJ	BROKEN JOINT					<input type="checkbox"/>	4 / 6		
320.1 ft.	L	LATERAL					<input type="checkbox"/>	10 /		VCP
327.8 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP
329.8 ft.	L	LATERAL					<input type="checkbox"/>	3 /		VCP
339.7 ft.	L	LATERAL					<input type="checkbox"/>	9 /		VCP
357.6 ft.	L	LATERAL					<input type="checkbox"/>	9 /		VCP SERVICE NOT IN USE
377.5 ft.	S	STRUCTURAL					<input type="checkbox"/>	/		
385.8 ft.	O	OTHER					<input type="checkbox"/>	6 /		PVC
391.4 ft.	M	MANHOLE					<input type="checkbox"/>	/		



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify owner of 950 Woodlawn Avenue five (5) business days prior to beginning of construction.
2. Estimated Construction Quantities:
 - a. 18.0 LF; 10" Dia., SDR 35, PVC, ASTM D 3034/D 3212 (Connect to 9" Dia. VCP)
 - b. 72 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 72 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - d. 1 EA; Sanitary Service Reconnection

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 12

1 inch = 50 feet

By: JK
Produced: 4/29/2025
FRSA Engineering Department



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 3708	Work order no.: 	Project name: CSQ060060724	Start date/time: 20240729 13:45	Purpose: F
Direction: D	Weather: 	Inspection status: CI	Pre-cleaning: N	Date cleaned: 20230105

Location:

Pipe segment ref.: SMH-060-041 - SMH-060-040	Street: Woodlawn Ave	Location code: C
City: Rockford	Location details: 	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 9 in.	Total length: 278.500 ft.	Length surveyed: 278.500 ft.
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Measurements:

Upstream MH No: 060-041	Rim to invert: 	Downstream MH No: 060-040	Rim to invert:
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	060-041
0.0 ft.	MWL	Miscellaneous Water Level			10	<input type="checkbox"/>	/	
5.4 ft.	CS	Crack Spiral				<input checked="" type="checkbox"/>	10 / 4	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
20.7 ft.	CS	Crack Spiral					<input checked="" type="checkbox"/>	9 / 3		
62.1 ft.	TF	Tap Factory		6.000			<input type="checkbox"/>	3 /		VCP-4 CAST IRON
63.6 ft.	FS	Fracture Spiral					<input checked="" type="checkbox"/>	11 / 12		
63.9 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	12 /		VCP
64.1 ft.	FS	Fracture Spiral					<input checked="" type="checkbox"/>	9 / 12		
65.2 ft.	CS	Crack Spiral					<input checked="" type="checkbox"/>	8 / 10		
66.2 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	2 /		VCP
68.3 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	10 /		VCP
68.5 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	2 /		VCP
74.7 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	10 /		VCP
78.3 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	11 /		VCP
118.0 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	3 /		VCP
119.0 ft.	B	Broken					<input checked="" type="checkbox"/>	9 / 10		
124.3 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	10 /		VCP
126.2 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	2 /		VCP
141.2 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	2 /		VCP
144.7 ft.	RPP	Point Repair Patch					<input checked="" type="checkbox"/>	10 / 2		VCP
148.3 ft.	RPP	Point Repair Patch					<input checked="" type="checkbox"/>	9 / 3		VCP
148.3 ft.	CL	Crack Longitudinal					<input checked="" type="checkbox"/>	8 /		
151.6 ft.	RPP	Point Repair Patch					<input checked="" type="checkbox"/>	11 / 1		VCP
154.6 ft.	RPP	Point Repair Patch					<input type="checkbox"/>	11 / 1		VCP
159.4 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	3 /		VCP
159.4 ft.	RPP	Point Repair Patch					<input checked="" type="checkbox"/>	11 / 1		VCP
164.6 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	4 /		

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
166.9 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	4 / 8		
168.9 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	3 / 5		
170.9 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	8 / 5		
180.2 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	9 /		VCP
187.6 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	9 /		VCP
188.0 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	2 /		VCP
207.0 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	2 /		VCP
214.2 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	3 / 5		
220.6 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	7 / 9		
222.5 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	4 /		
231.8 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	10 /		VCP
243.4 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	4 / 8		
245.5 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	8 / 4		
246.2 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	10 /		VCP
250.3 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	2 /		VCP
273.4 ft.	TFC	Tap Factory Capped		6.000			<input type="checkbox"/>	3 /		VCP
278.5 ft.	AMH	Manhole					<input type="checkbox"/>	/		060040



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Conduits believed to contain fiber optic cable bored through top of pipe at repair location. Over excavate as necessary to raise conduits above sanitary sewer. Owner of conduits is unknown (not marked in multiple JULIE requests).
2. Estimated Construction Quantities:
 - a. 4.0 LF; 10" Dia., SDR 35, PVC, ASTM D 3034/D 3212
 - b. 16 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 16 SY; HMA Pavement, 2.0" HMA SC/ 6.0" HMA BC
3. See Traffic Control - Item 13 for required detour of Parkview Avenue.

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 13

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 3793	Work order no.: 	Project name: CSQ064112724	Start date/time: 20241230 13:19	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: N	Date cleaned: 20240610

Location:

Pipe segment ref.: SMH-064-050 - SMH-073-138	Street: 1835 Parkview Ave	Location code: B
City: Rockford	Location details: 	

Pipe:

Shape: C	Material: XXX	Lining method: CIP	Height: 10 in.	Total length: 270.000 ft.	Length surveyed: 212.200 ft.
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Measurements:

Upstream MH No: 064-050	Rim to invert: 4.920 ft.	Downstream MH No: 073-138	Rim to invert: 4.890 ft.
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	064-050
0.0 ft.	MWL	Miscellaneous Water Level			10	<input type="checkbox"/>	/	
211.7 ft.	OBP	Obstruction External Pipe or Cable			30	<input type="checkbox"/>	9 / 3	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
212.2 ft.	MSA	Miscellaneous Survey Abandoned					<input type="checkbox"/>	/		OBSTRUCTION IN PIPE

Not to be used for bidding purposes



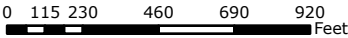
General Notes:

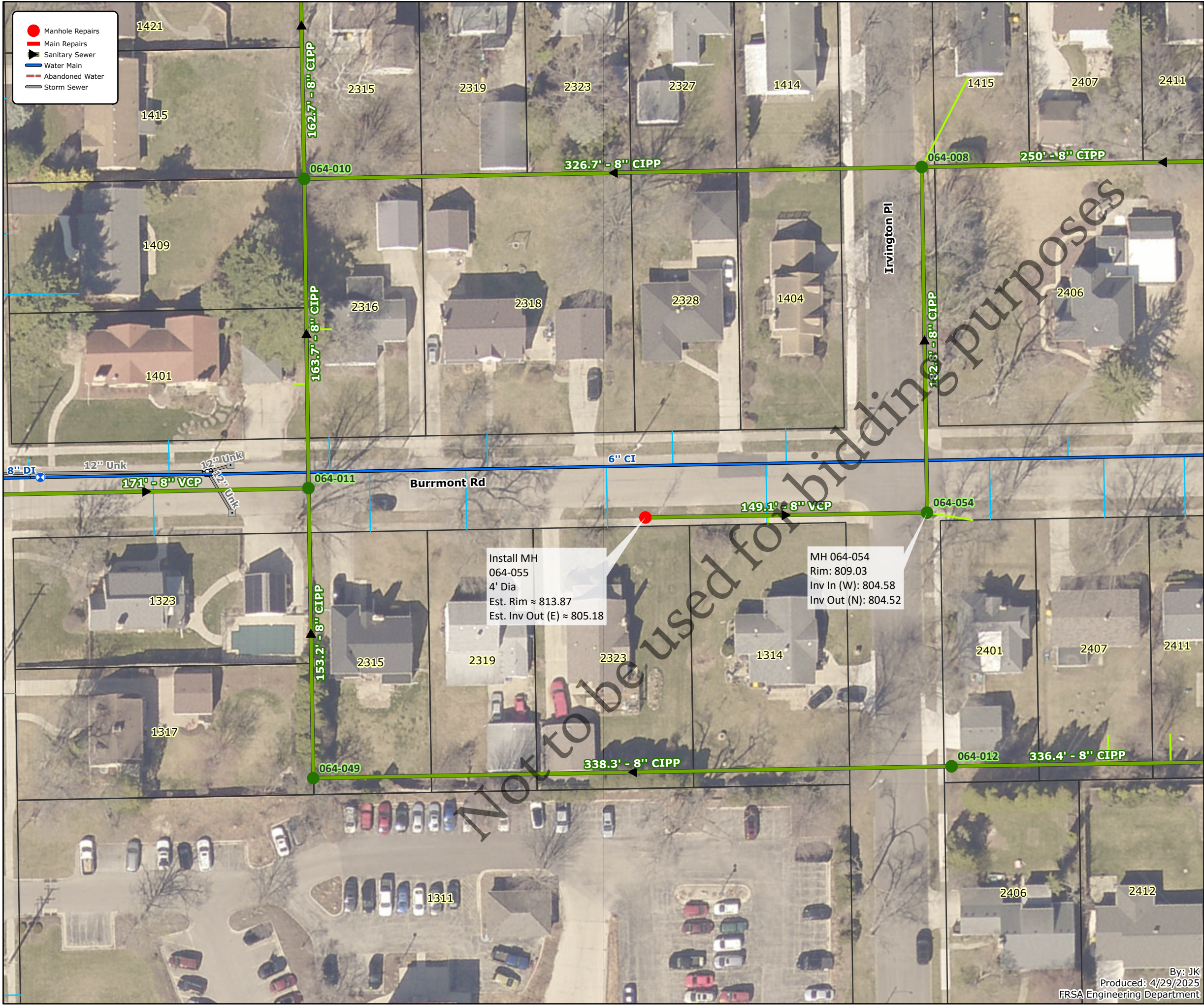
1. The Contractor shall notify Four Rivers, municipal agencies, jurisdictional roadway authorities and all affected property owners 48 hours, minimum, prior to the start of construction.
2. All sanitary sewer construction shall be in accordance with the current edition of *Standard Specifications for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

Notes regarding traffic control:

1. Notify the City of Rockford 48 hours, minimum, prior to implementation of road closure.
Contacts:
 - a. Jordan Masemore, (779) 348-7634, jordan.masemore@rockfordil.gov
 - b. Jacob Hennelly, (779) 348-7174, jacob.hennelly@rockfordil.gov
2. Signage and barricades for closure of Parkview Avenue shall conform to IDOT Standard 40.1.
3. All temporary traffic control devices shall comply with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), current edition.

CP #2654 Traffic Control - Item 13





General Notes:

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

Roadway Authority: City of Rockford

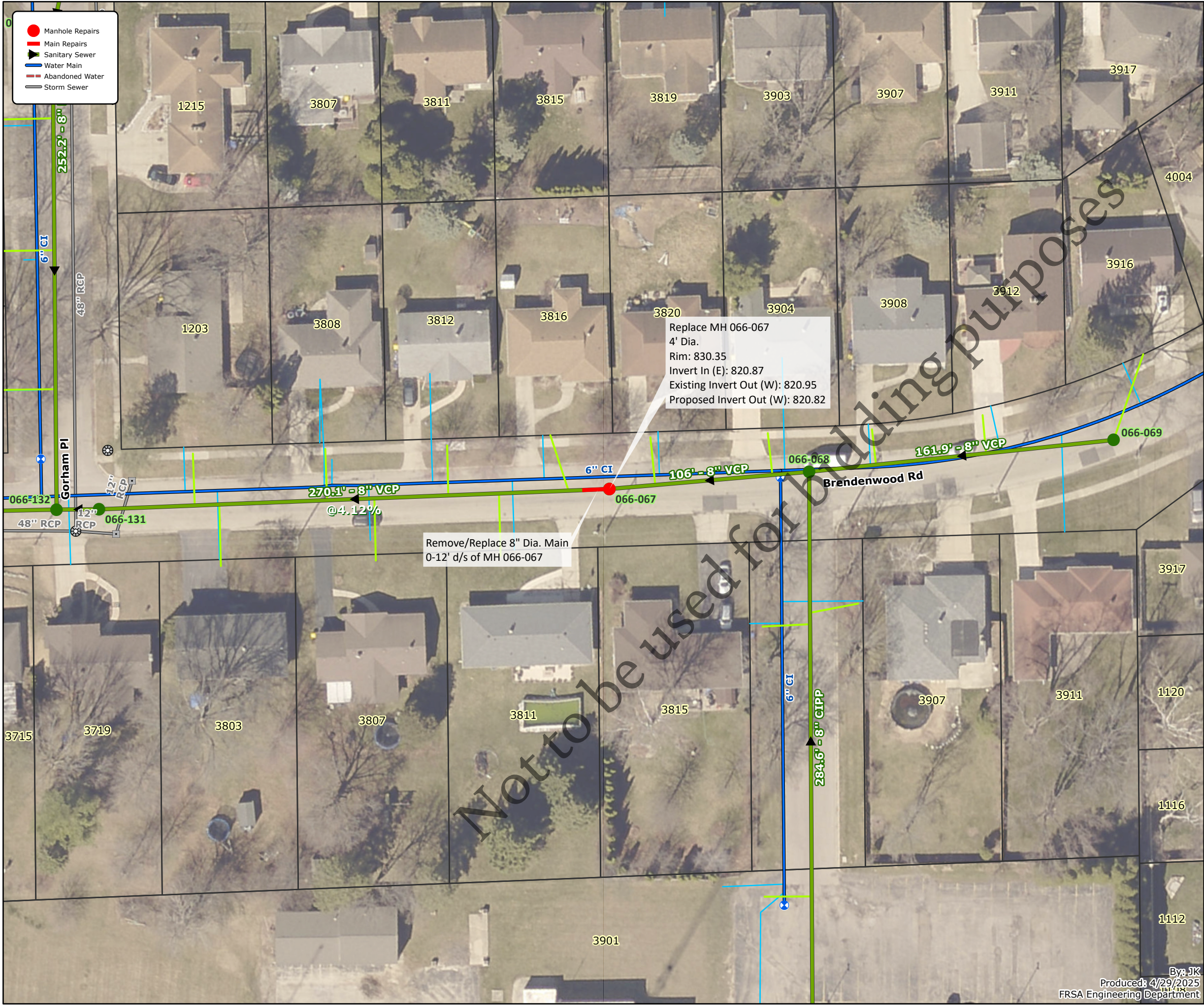
Site Specific Considerations and Estimated Incidental Work Items:

1. Depth of sewer at proposed manhole location is unknown and should be potholed prior to construction. Depth shall be confirmed prior to ordering all manhole components. A depth of roughly 8.7' is estimated assuming a 0.4% sanitary sewer slope coming off manhole 064-054.
2. Estimated Construction Quantities:
 - a. 1 EA; 4' Dia., Sanitary Manhole, Complete w/ new Frame & Lid
 - b. 12 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 12 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - e. 20 LF; PCC Curb and Gutter Removal and Replacement
 - f. 80 SF; PCC Sidewalk Removal and Replacement, 4" Thick
 - g. 14 SY; Turf Restoration

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 14

1 inch = 50 feet



General Notes:

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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Estimated Construction Quantities:
 - a. 12.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 65 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 65 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - d. 1 EA; 4' Dia., Sanitary Manhole, Complete w/ new Frame & Lid (Invert out currently 0.08' higher than invert in. Use 12' of sewer to west to achieve positive drainage through manhole.)

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 15

1 inch = 50 feet

By: JK
Produced: 4/29/2025
FRSA Engineering Department



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0356	Work order no.: 88148	Project name: PACP066010620	Start date/time: 20200113 13:22	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: N	Date cleaned:

Location:

Pipe segment ref.: SMH-066067 - SMH-066131	Street: 3816 BRENDENWOOD RD	Location code: C
City: ROCKFORD	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 270.100 ft.	Length surveyed: 270.100 ft.
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Measurements:

Upstream MH No: 066067	Rim to invert: 9.000 ft.	Downstream MH No: 066131	Rim to invert: 14.100 ft.
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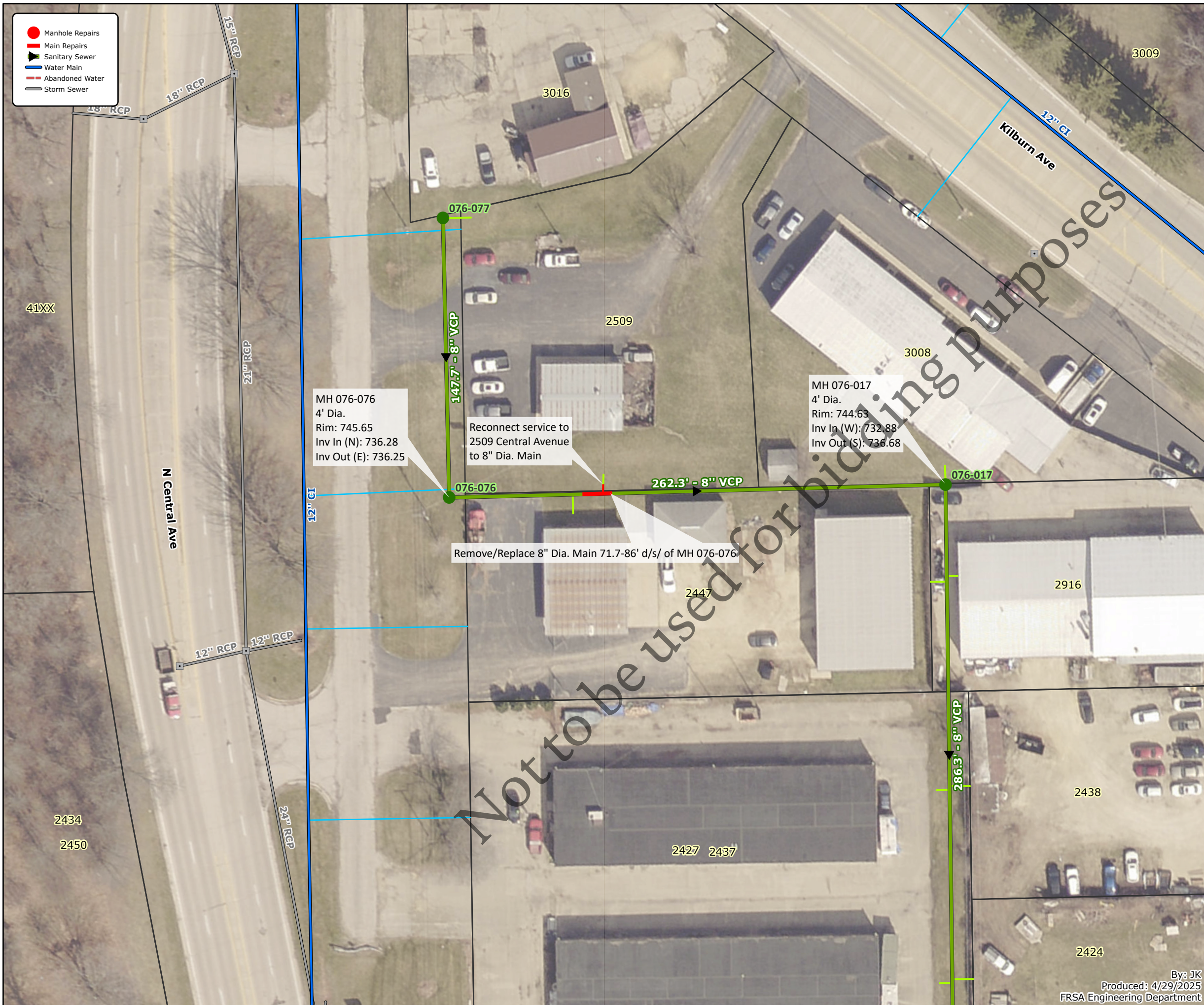
Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	066067
0.0 ft.	MWL	Miscellaneous Water Level			1	<input type="checkbox"/>	/	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
4.1 ft.	HVV	Hole Void Visible					<input type="checkbox"/>	5 / 7		LARGE HOLE IN FLOWLINE HOLDING UP RAGS
25.5 ft.	TRA	Tap Rehabilitated Activity		6.000			<input type="checkbox"/>	3 /		3816 Brendenwood Rd - 4" PVC pushed with c/o at pl on 10/1/18 - LIGHT ROOTS IN VCP PART
47.5 ft.	TBI	Tap Break-in Intruding		5.000	1.000		<input type="checkbox"/>	9 /		VCP
85.3 ft.	TFD	Tap Factory Defective		6.000			<input type="checkbox"/>	3 /		3812 Brendenwood Rd - New 4" PVC pipe pushed with c/o installed at pl on 2/1/23
123.5 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	9 /		VCP
146.1 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	3 /		VCP
167.0 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	8 / 9		
188.1 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	9 / 10		
205.9 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	9 /		VCP
216.2 ft.	TBA	Tap Break-in Activity		6.000			<input type="checkbox"/>	9 /		VCP, LIGHT ROOTS IN SERVICE
264.0 ft.	MMC	Miscellaneous Material Change					<input type="checkbox"/>	/		DUCTILE IRON PIPE
266.0 ft.	TF	Tap Factory		8.000			<input type="checkbox"/>	6 /		DROP - DIP/PVC/DIP
270.1 ft.	AMH	Manhole					<input type="checkbox"/>	/		066131



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

Roadway Authority: City of Rockford

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify F&F Auto Sales at (815) 963-1857 five (5) business days prior to beginning construction. Contractor shall notify Jack Hall Construction at (815) 967-9941 five (5) business days prior to beginning construction.
2. Estimated Construction Quantities:
 - a. 14.3 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 1 EA; Sanitary Service Reconnection
 - c. 71 SY; Turf Restoration

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0051	Work order no.: 97973	Project name: PACP076031722	Start date/time: 20220329 08:05	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: X	Date cleaned:

Location:

Pipe segment ref.: SMH-076076 - SMH-076017	Street: 2447 N CENTRAL AVE	Location code: D
City: ROCKFORD	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 262.300 ft.	Length surveyed: 262.300 ft.
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Measurements:

Upstream MH No: 076076	Rim to invert: 9.400 ft.	Downstream MH No: 076017	Rim to invert: 12.000 ft.
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st2nd	%	Joint	Circumferential Location At/FromTo	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	076076
0.0 ft.	MWL	Miscellaneous Water Level			0	<input type="checkbox"/>	/	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
66.3 ft.	RPZ	Point Repair Other	S01				<input type="checkbox"/>	/		Point repair completed by District crews on 7/29/09.
68.0 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	1 /		2447 N. Central Avenue - District crews installed 10' of 4" PVC pipe on 7/29/09.
71.7 ft.	RPZ	Point Repair Other	F01				<input type="checkbox"/>	/		VCP
80.7 ft.	B	Broken					<input type="checkbox"/>	5 / 7		
83.7 ft.	TBA	Tap Break-in Activity		4.000			<input type="checkbox"/>	10 /		CAS
262.3 ft.	AMH	Manhole					<input type="checkbox"/>	/		076017



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

Roadway Authority: City of Loves Park

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall coordinate repair work to be completed in advance of the City of Loves Park's East Drive resurfacing project. Milling is anticipated to begin at the location on **August 4, 2025**. Contact Arc Design's Ryan Shaulis at (815) 484-4300x213 for project information.
2. Estimated Construction Quantities:
 - a. 15.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 80 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 80 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - d. 108 SF; PCC Pavement Removal and Replacement
 - e. 40 LF; PCC Curb and Gutter Removal and Replacement
 - f. 5 SY; Turf Restoration

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0356	Work order no.: 99428	Project name: PACP082062122	Start date/time: 20220715 09:30	Purpose: F
Direction: D	Weather: 3	Inspection status: CI	Pre-cleaning: N	Date cleaned:

Location:

Pipe segment ref.: SMH-082036 - SMH-082037	Street: 5215 EAST DR	Location code: B
City: LOVES PARK	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 214.900 ft.	Length surveyed: 214.900 ft.
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Measurements:

Upstream MH No: 082036	Rim to invert: 9.000 ft.	Downstream MH No: 082037	Rim to invert: 17.000 ft.
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	082036
0.0 ft.	MWL	Miscellaneous Water Level			1	<input type="checkbox"/>	/	
14.3 ft.	DAE	Deposits Attached Encrustation			10	<input checked="" type="checkbox"/>	7 / 5	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
18.2 ft.	DAE	Deposits Attached Encrustation				5	<input checked="" type="checkbox"/>	7 /	5	
30.3 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
38.4 ft.	DAE	Deposits Attached Encrustation				5	<input checked="" type="checkbox"/>	2 /	10	
42.3 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	7 /	11	
43.5 ft.	TFD	Tap Factory Defective		6.000			<input type="checkbox"/>	9 /		VCP, LIGHT MINERAL DEPOSITS
44.4 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 /	5	
48.4 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
52.2 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
56.6 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 /	5	
60.5 ft.	DAE	Deposits Attached Encrustation				5	<input checked="" type="checkbox"/>	2 /	10	
68.7 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 /	5	
76.8 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 /	5	
85.0 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 /	5	
97.1 ft.	DAE	Deposits Attached Encrustation				5	<input checked="" type="checkbox"/>	2 /	10	
101.0 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	7 /	11	
102.4 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	9 /		VCP
103.2 ft.	RFJ	Roots Fine Joint					<input checked="" type="checkbox"/>	8 /	4	
107.2 ft.	DAE	Deposits Attached Encrustation				5	<input checked="" type="checkbox"/>	1 /	5	
111.2 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 /	5	
115.5 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
119.4 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
120.2 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
123.8 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 /	4	
125.0 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	9 /		VCP

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
134.0 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 / 4		
141.7 ft.	DAE	Deposits Attached Encrustation				5	<input checked="" type="checkbox"/>	1 / 5		
145.9 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 / 5		
149.9 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 / 4		
154.0 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 / 5		
158.3 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 / 5		
170.3 ft.	DAE	Deposits Attached Encrustation				5	<input type="checkbox"/>	2 / 10		
174.1 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 / 4		
178.3 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 / 5		
186.5 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	1 / 5		
190.3 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	8 / 4		
199.8 ft.	TFA	Tap Factory Activity		6.000			<input type="checkbox"/>	9 /		VCP
201.8 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	11 / 6		
205.1 ft.	MWLS	Miscellaneous Water Level Sag	S01			30	<input type="checkbox"/>	/		
208.1 ft.	MCU	Miscellaneous Camera Underwater					<input type="checkbox"/>	/		
210.2 ft.	FM	Fracture Multiple					<input type="checkbox"/>	12 / 12		
210.2 ft.	DAE	Deposits Attached Encrustation				1	<input checked="" type="checkbox"/>	12 / 12		
211.0 ft.	MWLS	Miscellaneous Water Level Sag	F01			30	<input type="checkbox"/>	/		
211.8 ft.	TF	Tap Factory		8.000			<input type="checkbox"/>	6 /		VCP DROP
214.9 ft.	AMH	Manhole					<input type="checkbox"/>	/		082037



General Notes:

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

Roadway Authority: Rockford Township

Site Specific Considerations and Estimated Incidental Work Items:

1. A corrugated metal culvert pipe crosses the east leg of the intersection near the anticipated excavation limits.
2. Estimated Construction Quantities:
 - a. 25.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 115 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 115 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC
 - d. 16 SY; Turf Restoration

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 18

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Surveyed by: 0051	Work order no.: 95939	Project name: PACP107090921	Start date/time: 20210920 11:44	Purpose: F
Direction: D	Weather: 1	Inspection status: CI	Pre-cleaning: X	Date cleaned:

Location:

Pipe segment ref.: SMH-107022 - SMH-107018	Street: 4710 MARION AVE	Location code:
City: ROCKFORD	Location details:	

Pipe:

Shape: C	Material: VCP	Lining method: N	Height: 8 in.	Total length: 249.100 ft.	Length surveyed: 249.100 ft.
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Measurements:

Upstream MH No: 107022	Rim to invert: 12.600 ft.	Downstream MH No: 107018	Rim to invert: 12.100 ft.
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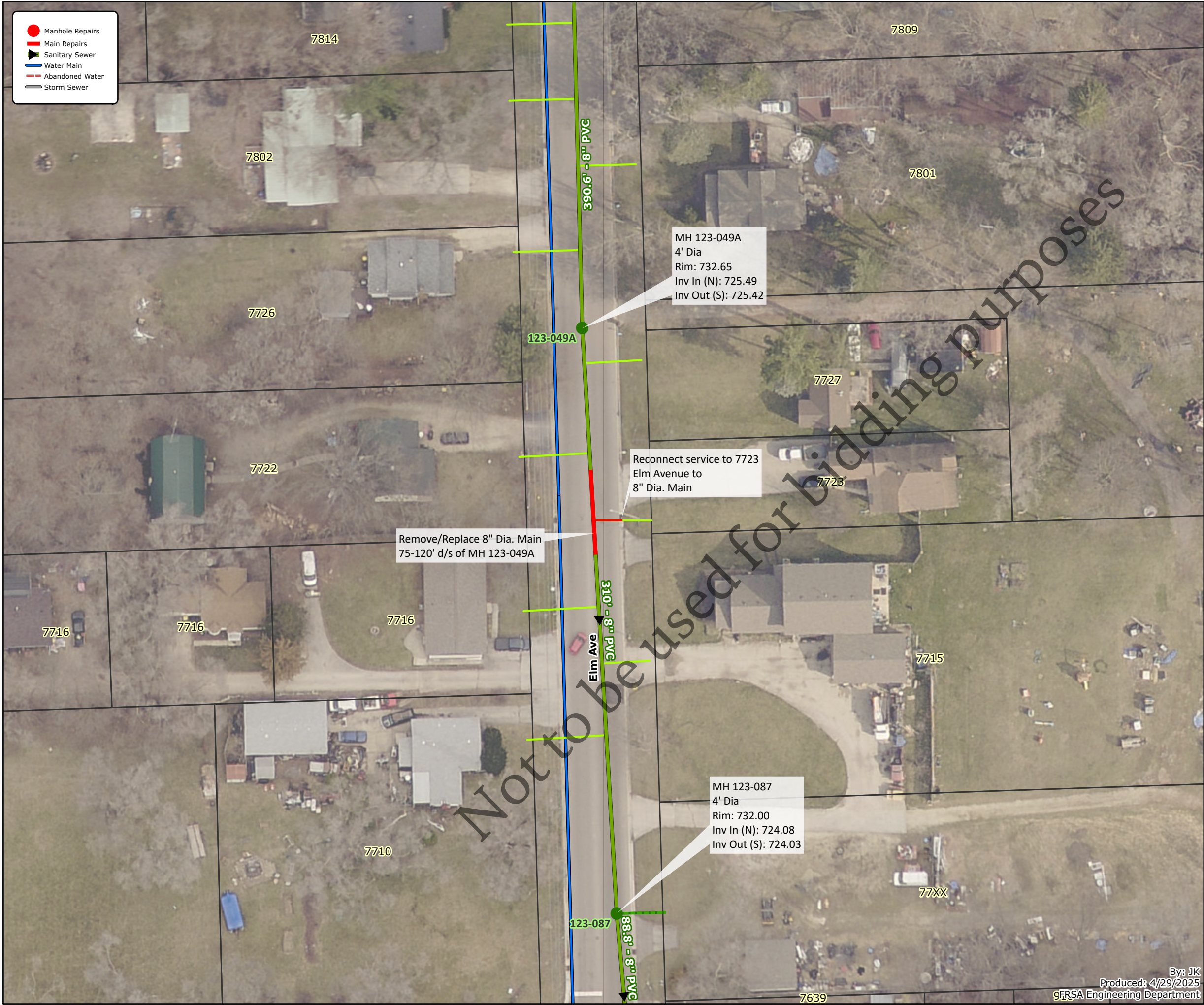
Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	AMH	Manhole				<input type="checkbox"/>	/	107022
0.0 ft.	MWL	Miscellaneous Water Level			5	<input type="checkbox"/>	/	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
21.4 ft.	RPR	Point Repair Replacement	S01				<input type="checkbox"/>	/		Point repair completed by Stenstrom Excavation on 11/6/07.
51.0 ft.	RPR	Point Repair Replacement	F01				<input type="checkbox"/>	/		VCP
203.3 ft.	DAGS	Deposits Attached Grease				5	<input type="checkbox"/>	10 / 2		
222.6 ft.	DAGS	Deposits Attached Grease				5	<input type="checkbox"/>	10 / 2		
224.4 ft.	MWLS	Miscellaneous Water Level Sag	S02			75	<input type="checkbox"/>	/		
227.4 ft.	RPR	Point Repair Replacement	S03				<input type="checkbox"/>	/		Point repair completed by Stenstrom Excavation on 11/20/07.
237.5 ft.	MCU	Miscellaneous Camera Underwater					<input type="checkbox"/>	/		
249.0 ft.	MWLS	Miscellaneous Water Level Sag	F02			75	<input type="checkbox"/>	/		
249.0 ft.	RPR	Point Repair Replacement	F03				<input type="checkbox"/>	/		end of repair
249.1 ft.	AMH	Manhole					<input type="checkbox"/>	/		107018



General Notes:

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

Roadway Authority: Machesney Park

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify owner of 7723 Elm Avenue five (5) business days prior to beginning construction.
2. Sanitary sewer repair passes between two 5' Dia. storm sewer manholes, 11' center-to-center, approximately 5' south of the proposed sanitary service reconnection. A 24" Dia., RCP storm sewer connects the manholes below the sanitary sewer repair at a depth of approximately 11.5'.
3. Estimated Construction Quantities:
 - a. 45.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 96 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 96 SY; HMA Pavement, 1.5" HMA SC N50/ 4.0" HMA BC 19.0mm
 - d. 1 EA; Sanitary Service Reconnection
4. See Traffic Control - Item 19 for required detour of Elm Avenue.

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 19

1 inch = 50 feet



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Operator: 0057	Work order no.: _____	Project name: TVINSP123	Start date/time: 20150817 13:38	Reason: _____
Direction: With the flow	Orig_Weather: _____	Inspection Status: _____	Pre-cleaning: _____	Date cleaned: _____

Location:

Mainline ID: SMH-123049A - SMH-123087	Address: ELM	Surface condition: ASPH
City: MACHESNEY PARK	Further location details: _____	

Pipe:

Pipe shape: CIRC	Pipe material: PVC	Lining method: _____	Pipe height: 8.0 in.	Asset length: 310.0 ft.	Surveyed distance: 310.0 ft.
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Measurements:

Upstream node: 123049A	Rim to invert: 7.1 in.	Downstream node: 123087	Rim to invert: 7.8 in.
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Additional Information:

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	M	MANHOLE				<input type="checkbox"/>	/	
15.0 ft.	L	LATERAL				<input type="checkbox"/>	9 /	PVC
62.5 ft.	L	LATERAL				<input type="checkbox"/>	3 /	PVC

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
76.4 ft.	A	ALIGNMENT					<input type="checkbox"/>	/		
94.7 ft.	A	ALIGNMENT					<input type="checkbox"/>	/		BAD
99.9 ft.	L	LATERAL					<input type="checkbox"/>	9 /		PVC
144.7 ft.	L	LATERAL					<input type="checkbox"/>	3 /		PVC
174.7 ft.	L	LATERAL					<input type="checkbox"/>	9 /		PVC
212.8 ft.	L	LATERAL					<input type="checkbox"/>	3 /		PVC
310.0 ft.	M	MANHOLE					<input type="checkbox"/>	/		

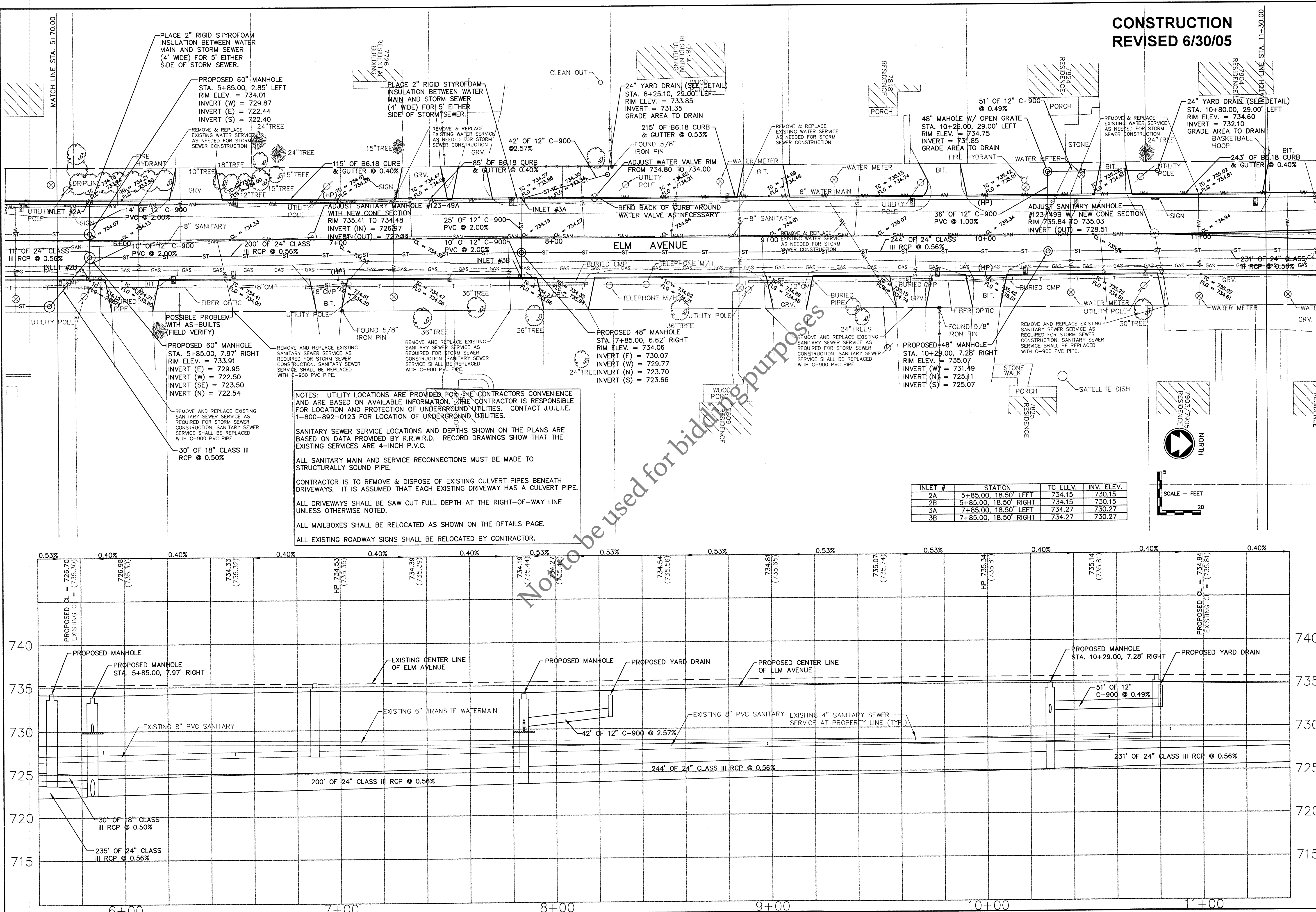
Not to be used for bidding purposes

CONSTRUCTION
REVISED 6/30/05

REVISION	DATE	NO.	DESCRIPTION
CONSTRUCTION	5/4/05	1	5/4/05
CONSTRUCTION	6/30/05	2	6/30/05

DESIGNED	S.H.P.	DRAWN	J.J.D.	CHECKED	C.D.D.
M&M ASSOCIATES, INC. ENGINEERS 1700 Hulthaus Road, Machesney Park, IL 61115 TEL: 815-636-9590 FAX: 815-636-9591					

ELM AVENUE IMPROVEMENTS VILLAGE OF MACHESNEY PARK	
HORIZ. 1" = 20'	DATE APRIL 2005
VERT. 1" = 5'	PROJECT NO. M0031-730137
SHEET NO. 3	
FILE NO. CAD	





General Notes:

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

Notes regarding traffic control:

1. Notify the Village of Machesney Park 48 hours, minimum, prior to implementation of road closure.
Contacts:
 - a. Mitch Hilden, (779) 315-3094, MitchH@machesneypark.org
2. Signage and barricades for closure of Elm Avenue shall conform to IDOT Standard 40.1.
3. All temporary traffic control devices shall comply with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD), current edition.



General Notes:

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

Roadway Authority: Machesney Park

Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor shall notify owner of 101 Shoreland Road five (5) business days prior to beginning construction. Access must be maintained to residence during construction.
2. Estimated Construction Quantities:
 - a. 12.5 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - b. 213 SY; Compacted Aggregate Base Course, 12" Thick
 - c. 213 SY; HMA Pavement, 1.5" HMA SC/ 2.5" HMA BC

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 20

1 inch = 50 feet

By: JK
Produced: 4/29/2025
FRSA Engineering Department



CUES, Inc.
3600 Rio Vista Avenue
Orlando, FL 32805
Phone: 407-849-0190
Fax: 407-425-1569

PACP v7.0 Inspections

General Information:

Operator: 0051	Work order no.: 81990	Project name: TVINSP124102318	Start date/time: 20181109 10:04	Reason: Regular
Direction: With the flow	Orig_Weather:	Inspection Status:	Pre-cleaning:	Date cleaned:

Location:

Mainline ID: SMH-124008 - SMH-124007	Address: 201 SHORELAND RD	Surface condition: ASPH
City: MACHESNEY PARK	Further location details:	

Pipe:

Pipe shape: CIRC	Pipe material: VCP	Lining method:	Pipe height: 0.0 in.	Asset length: 34.9 ft.	Surveyed distance: 34.9 ft.
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Measurements:

Upstream node: 124008	Rim to invert: 0.0 ft.	Downstream node: 124007	Rim to invert: 0.0 ft.
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Additional Information:

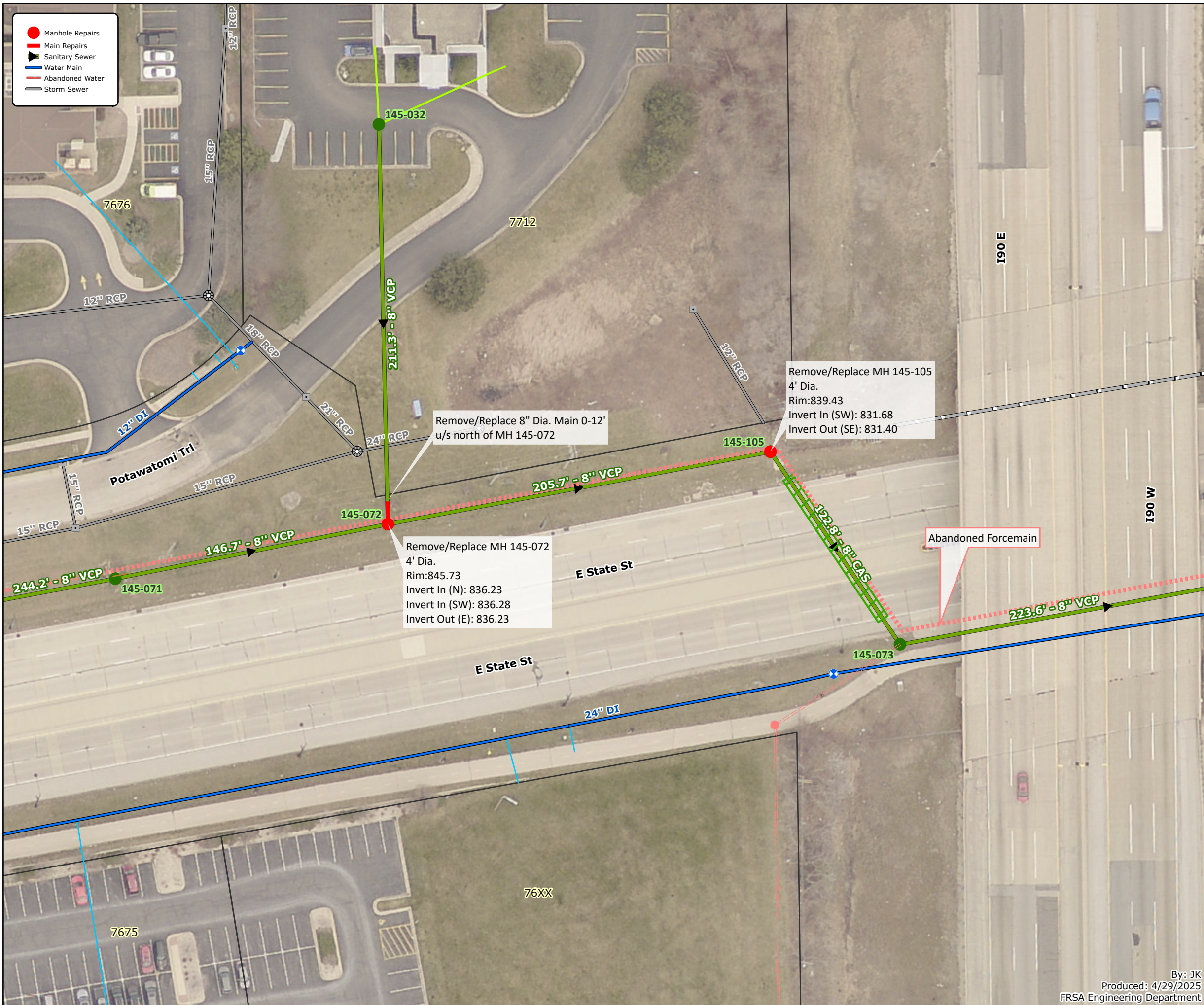
Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm) 1st 2nd	%	Joint	Circumferential Location At/From To	Remarks
0.0 ft.	M	MANHOLE				<input type="checkbox"/>	/	
16.8 ft.	A	ALIGNMENT				<input type="checkbox"/>	/	
27.3 ft.	A	ALIGNMENT				<input type="checkbox"/>	/	

Observations

Distance	PACP Code	PACP Code Desc	Continuous	Value Inches (mm)		%	Joint	Circumferential Location		Remarks
				1st	2nd			At/From	To	
27.6 ft.	O	OTHER					<input type="checkbox"/>	6 /		VCP
28.0 ft.	LC	CRACK					<input type="checkbox"/>	5 / 7		MEDIUM
28.5 ft.	S	STRUCTURAL					<input type="checkbox"/>	/		
34.9 ft.	M	MANHOLE					<input type="checkbox"/>	7		MANHOLE HAS BEEN SEALED

Not to be used for bidding purposes



General Notes:

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

Roadway Authority: IDOT

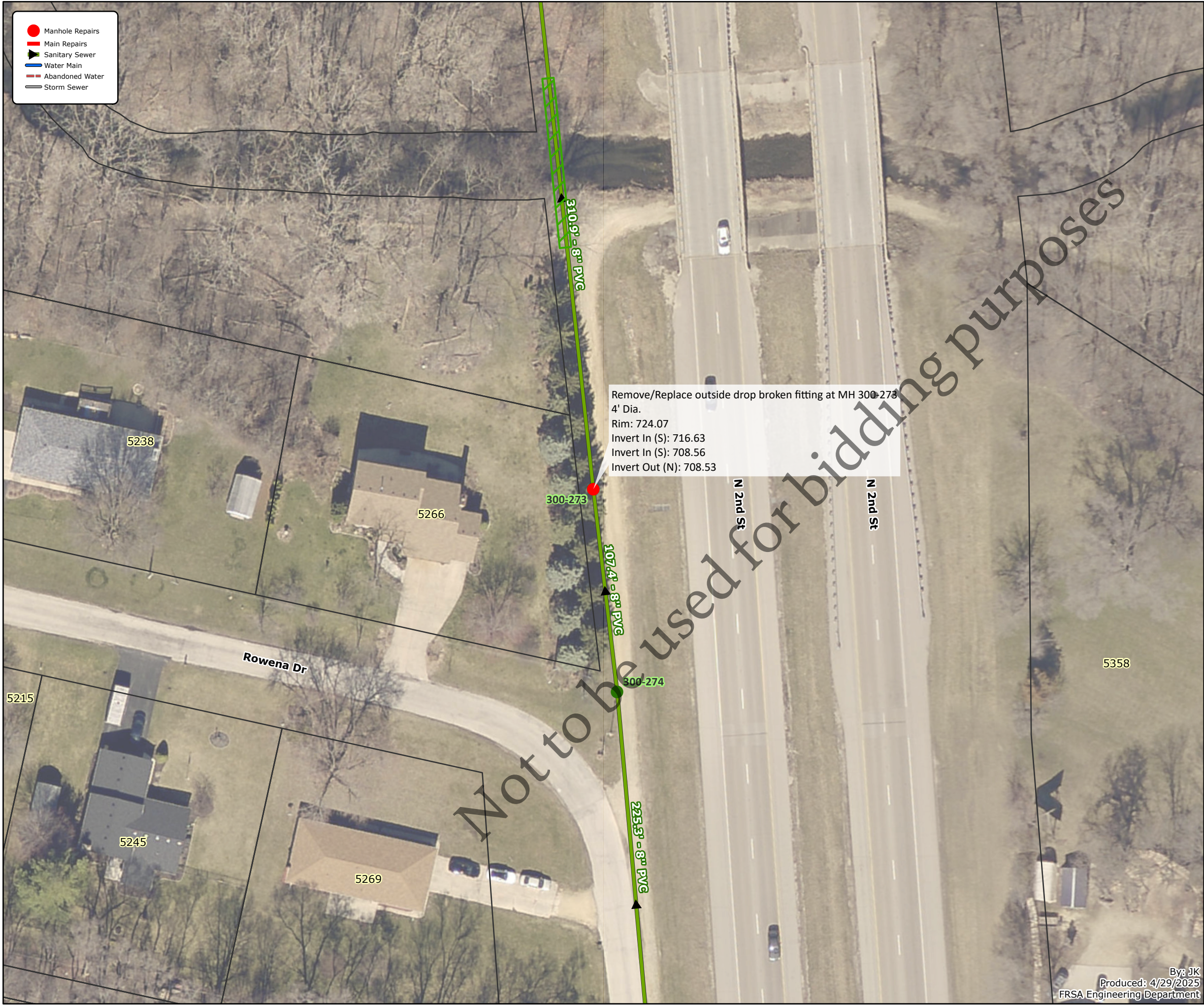
Site Specific Considerations and Estimated Incidental Work Items:

1. Abandoned force main and appurtenances are present inside each manhole. All force main and appurtenances within excavation limits shall be removed. Cap ends of abandoned force main.
2. Estimated Construction Quantities:
 - a. 2 EA; 4' Dia., Sanitary Manhole, Complete w/ new Frame & Lid (Invert out currently matches north invert in at manhole 145-072. Use 12' of sewer to west to achieve positive drainage through manhole.)
 - b. 134 SY; Turf Restoration
 - c. 12.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 21

1 inch = 50 feet



General Notes:

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

Roadway Authority: IDOT

Site Specific Considerations and Estimated Incidental Work Items:

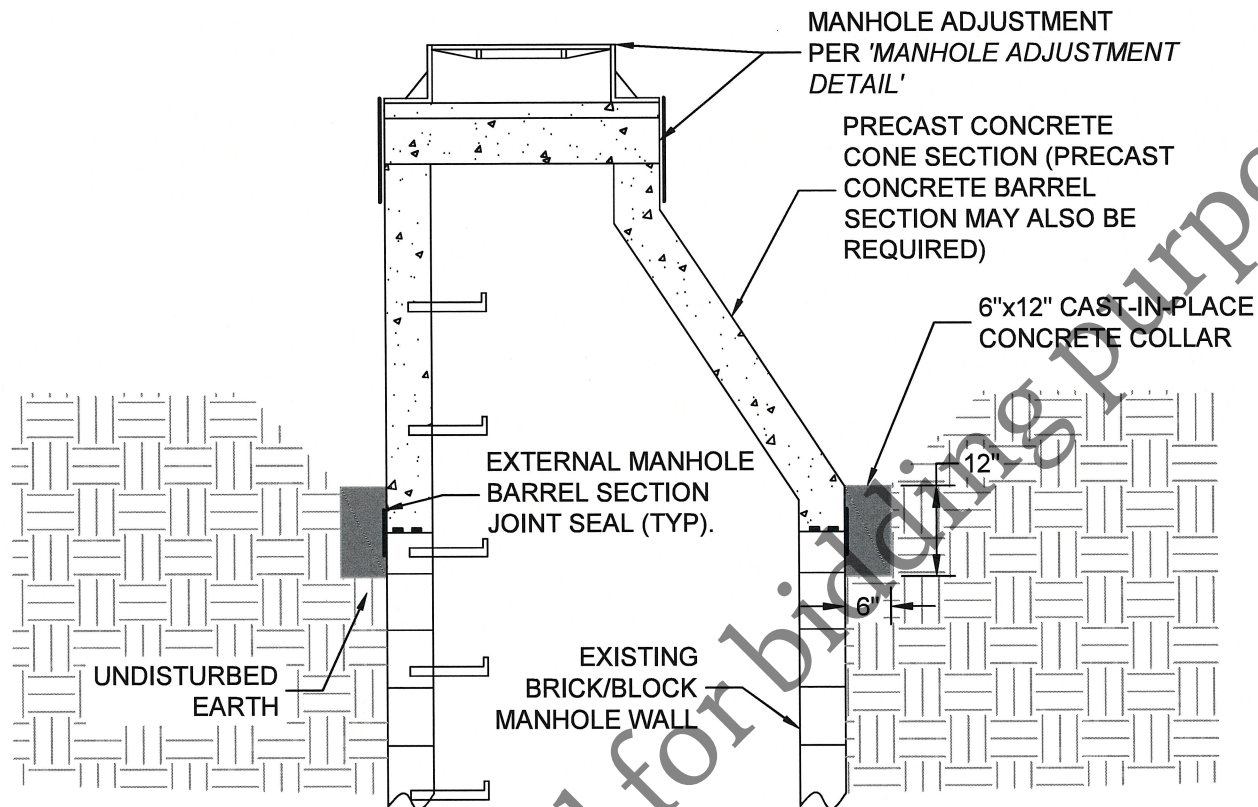
1. Contractor shall notify owner of 5266 Rowena Drive five (5) days prior to beginning construction.
2. Manhole is located between large trees located near the property line. Contact FRSA to stake property line prior to beginning construction.
2. Estimated Construction Quantities:
 - a. 1 EA; 8"x8"x8" Tee, ASTM D 3212
 - b. 4.0 LF; 8" Dia., SDR 35, PVC, ASTM D 3034 /D 3212
 - c. 30 SY; Turf and Landscape Restoration
 - d. 10 SY; Aggregate Roadway Removal and Replacement

Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price

Capital Project #2654 - Map 22

1 inch = 50 feet

Section IV
Standard Details



NOTES:

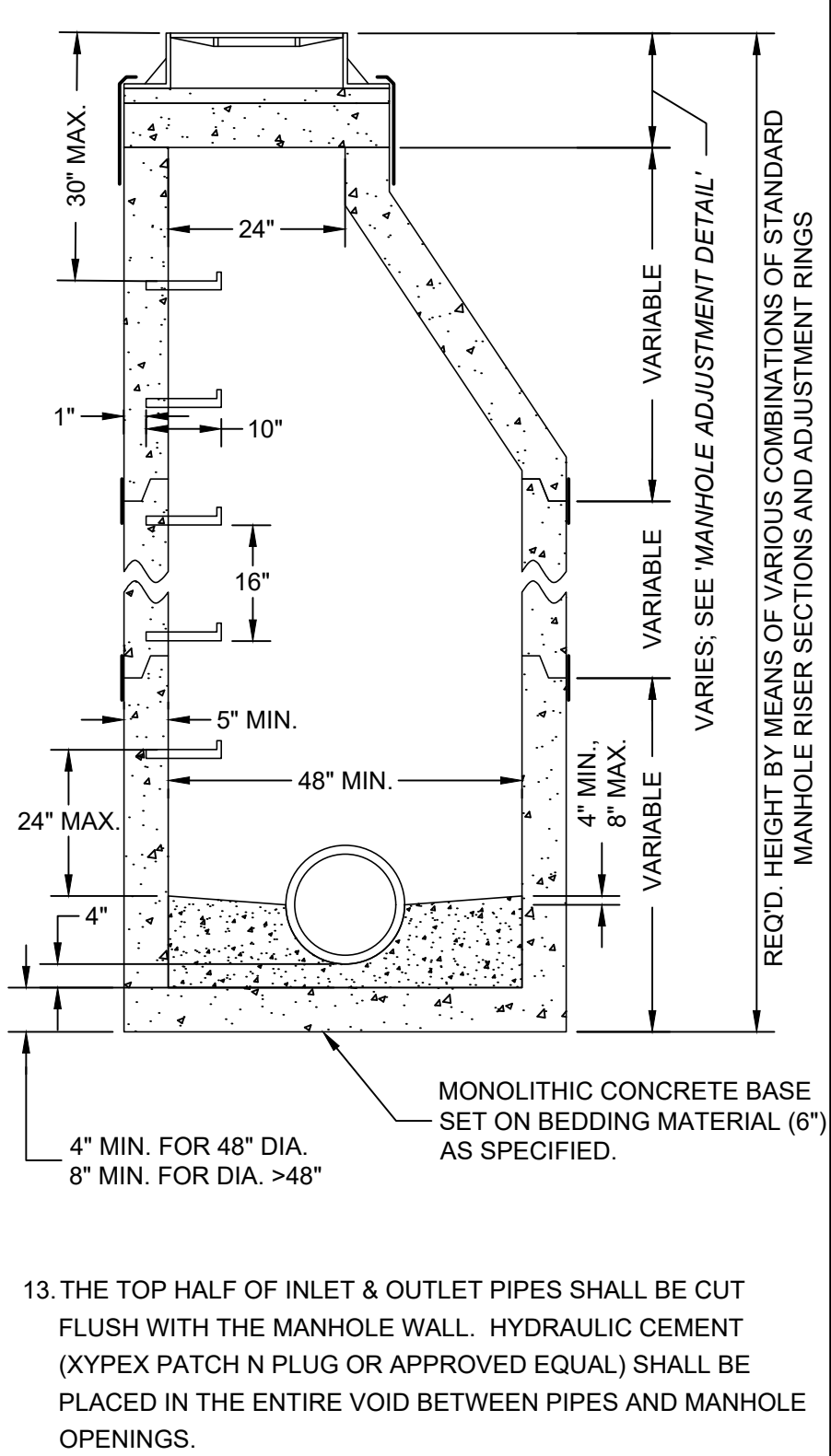
1. REMOVAL OF EX. CONE & MANHOLE WALL SHALL STOP AT A COURSE OF EX. BRICK OR BLOCK WHICH IS 90% MIN. INTACT AND WHICH OBTAINS THE FULL INSIDE DIAMETER OF THE MANHOLE.
2. A LEVELING BED OF NON SHRINK HYDRAULIC CEMENT SHALL BE PLACED ON THE HORIZONTAL SURFACE OF THE EX. MANHOLE WALL TO PREPARE A SURFACE FOR THE NEW MANHOLE BARREL OR CONE SECTION.
3. THE NEW PRECAST BARREL OR CONE SECTION SHALL NOT HAVE A SHIPLAP, AND SHALL BE PLACED ON TWO BEADS OF 1" WIDE BITUMINOUS MATERIAL, WHICH SHALL BE PLACED ON THE LEVELING BED OF HYDRAULIC CEMENT AFTER IT HAS FULLY CURED.
4. A BARREL SECTION JOINT SEAL SHALL BE CENTERED ON THE RECONSTRUCTION JOINT.
5. A 6" WIDE x 12" TALL CAST-IN-PLACE CONCRETE COLLAR SHALL BE PLACED AROUND THE RECONSTRUCTION JOINT, CENTERED ON THE JOINT.

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

- NOTES:**
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
 2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
 3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
 4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 ½" x ¾" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
 5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL).
 6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
 7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
 8. SEE 'MANHOLE ADJUSTMENT DETAIL' FOR ADJUSTMENT REQUIREMENTS.
 9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
 10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP CONNECTION DETAIL'.
 12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED. FOR MANHOLES WITH INSIDE DROP ASSEMBLIES, STEPS IN THE MANHOLE BASE SECTION SHALL BE INSTALLED IN THE FIELD AND NOT CAST IN PLACE. IN THIS CASE, THE ORIENTATION OF THE CONE SHALL BE AS DIRECTED BY FRSA.

STANDARD MANHOLE DETAIL

('MANHOLE ADJUSTMENT DETAIL' SHALL APPLY)



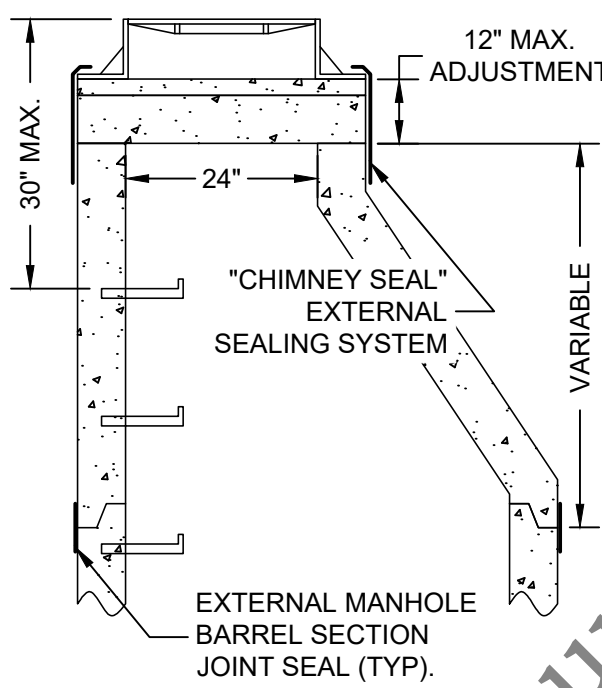
rev. 5/1/23

- NOTES:**
1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
 2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE THE BOLT DOWN TYPE.
 3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
 4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT. WHEN A FRAME REQUIRES PITCHING, EPP TAPER RINGS SHALL BE USED PER NOTE 5.
 5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
 6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
 7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
 8. MANHOLE FRAMES SHALL BE SET ¼" MIN. TO ¾" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.
 9. WHEN ADJUSTING EXISTING MANHOLES, THE ENTIRE EXISTING ADJUSTMENT SHALL BE REMOVED AND REPLACED.
 10. THE COMBINATION OF NEW ADJUSTING RINGS

MANHOLE ADJUSTMENT DETAIL

(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

TYPE	APPROVED FRAME & LID TABLE			
	NEENAH FRAME	NEENAH LID	EAST JORDAN FRAME	EAST JORDAN LID
REGULAR	1670-2004	R-1670-0358	00111711	00111732
LOW PROFILE	1670-2008	R-1670-0358	---	---
BOLT DOWN	1915JT08			



rev. 5/1/23

- SHALL BE SUCH THAT THE MINIMUM NUMBER OF RINGS POSSIBLE ARE USED.
11. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
 12. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.
 13. MANHOLE ADJUSTMENT INSERT RISER RINGS ARE NOT APPROVED FOR USE.

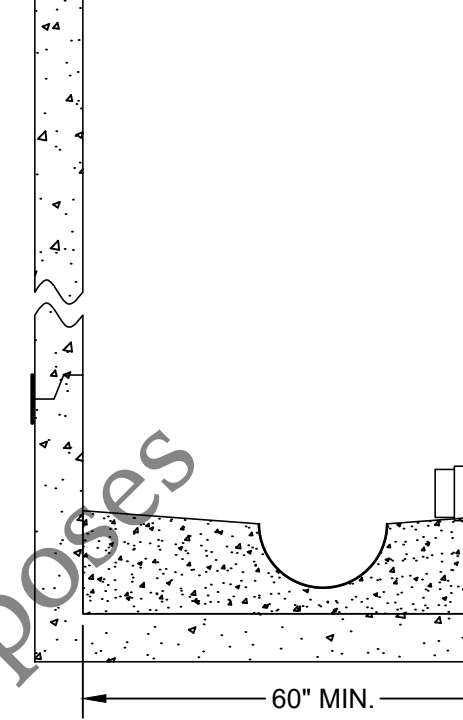
DROP BOWL & DROP PIPE SIZING TABLE

INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*

* PER MFG. OR AS DIRECTED BY FRSA

SEE 'STANDARD MANHOLE DETAIL' FOR MANHOLE REQUIREMENTS

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



INSIDE DROP CONNECTION DETAIL

('STANDARD MANHOLE DETAIL' SHALL APPLY)

- NOTES:**
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
 2. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS MFG. BY RELINER-DURAN INC., OR EQUAL.
 3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
 4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
 5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH ¾" x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFR.'S RECOMMENDATIONS.
 6. THE DROP BOWL SHALL BE PLACED AT A HEIGHT SO THAT THE FLOW LINE OF THE BOWL IS 2 INCHES BELOW THE INVERT OF THE INCOMING PIPE.
 7. CUT A 1" DEEP BY 3" WIDE "V" NOTCH IN INVERT OF INLET PIPE.
 8. CUT THE TOP HALF OF THE INLET PIPE FLUSH WITH THE INSIDE OF THE MANHOLE WALL.
 9. ALTERNATE INSIDE DROP SYSTEMS MAY BE CONSIDERED FOR APPROVAL.

INLET PIPE

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

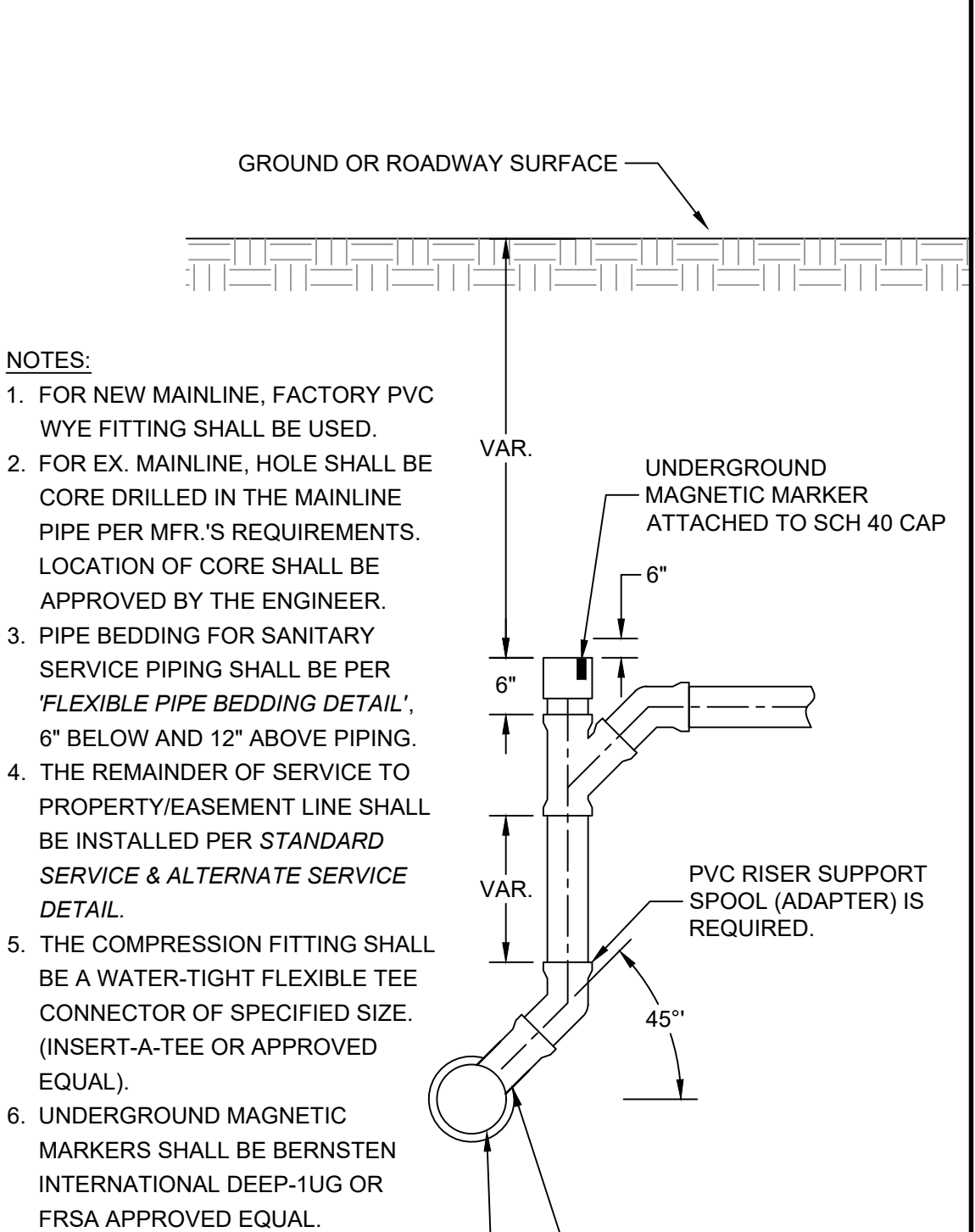
FLEXIBLE COUPLING WITH SS BANDS

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

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

DROP PIPE INVERT ELEV. SHALL MATCH SPRINGLINE OF EXIT PIPE

rev. 5/1/23



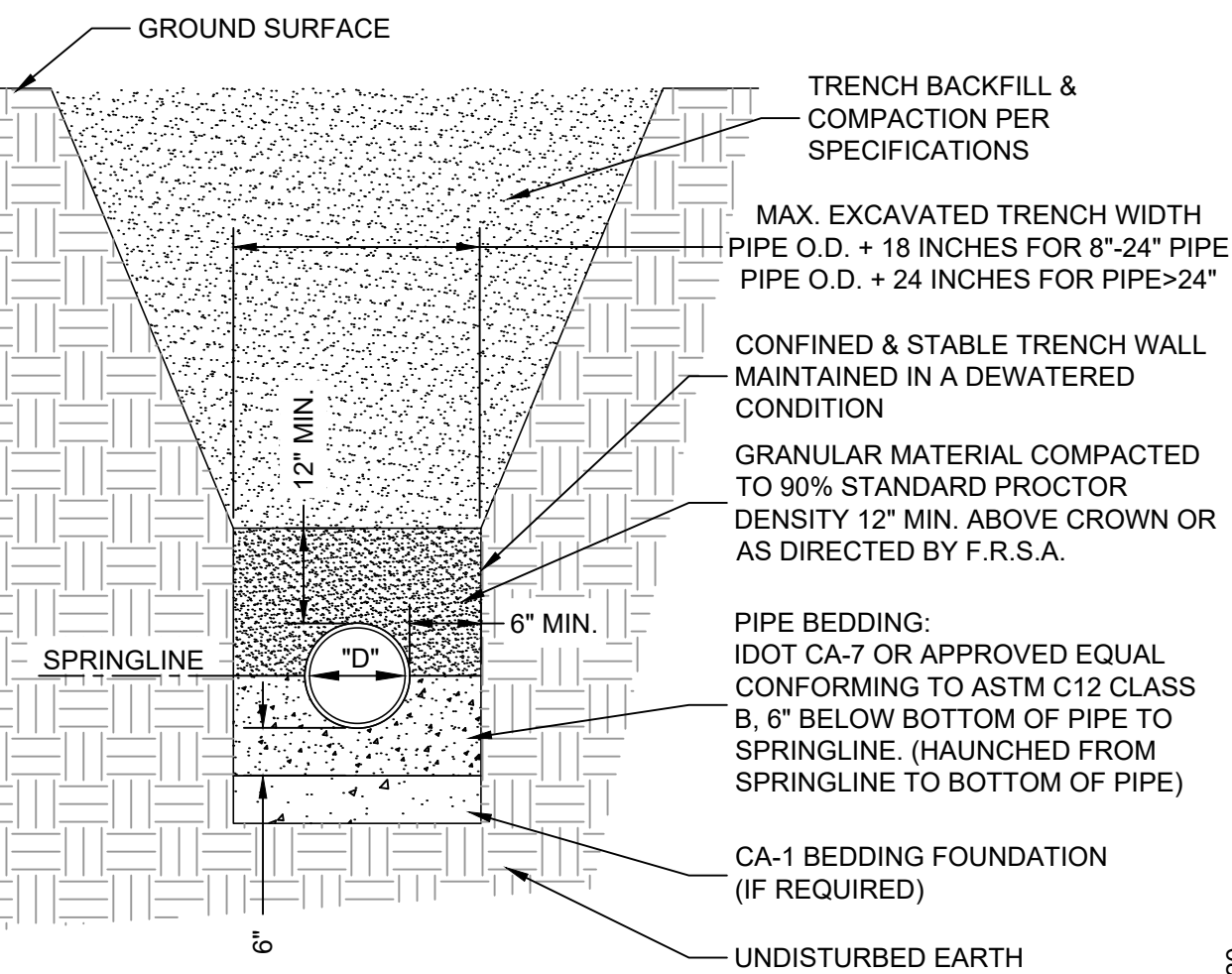
NOTES:

1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFR.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER STANDARD SERVICE & ALTERNATE SERVICE DETAIL.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).
6. UNDERGROUND MAGNETIC MARKERS SHALL BE BERNSTEN INTERNATIONAL DEEP-1UG OR FRSA APPROVED EQUAL.

VERTICAL SERVICE RISER DETAIL

(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

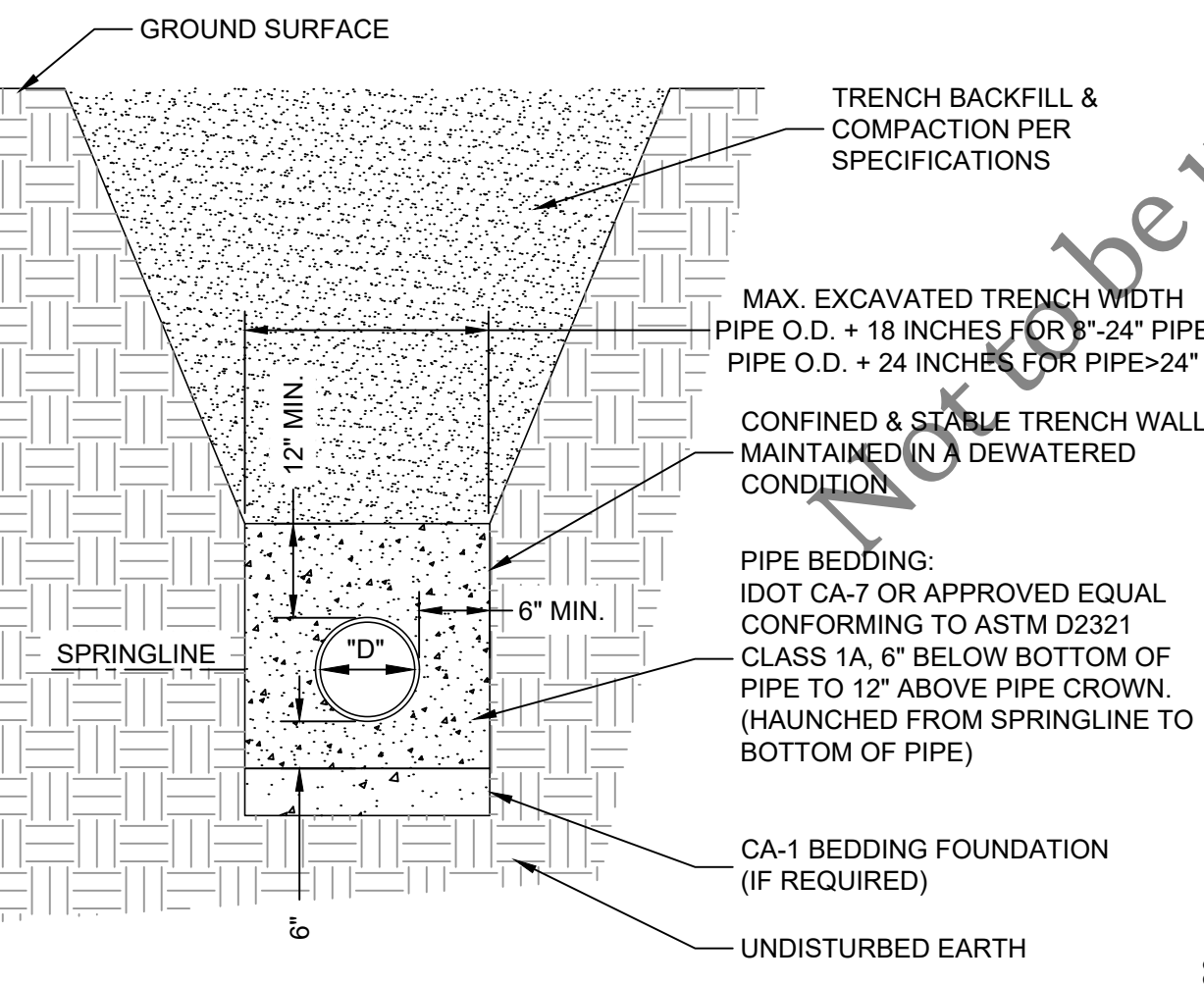
- NOTES:**
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
 2. LOOSE MATERIAL SHALL BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.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



RIGID PIPE BEDDING DETAIL

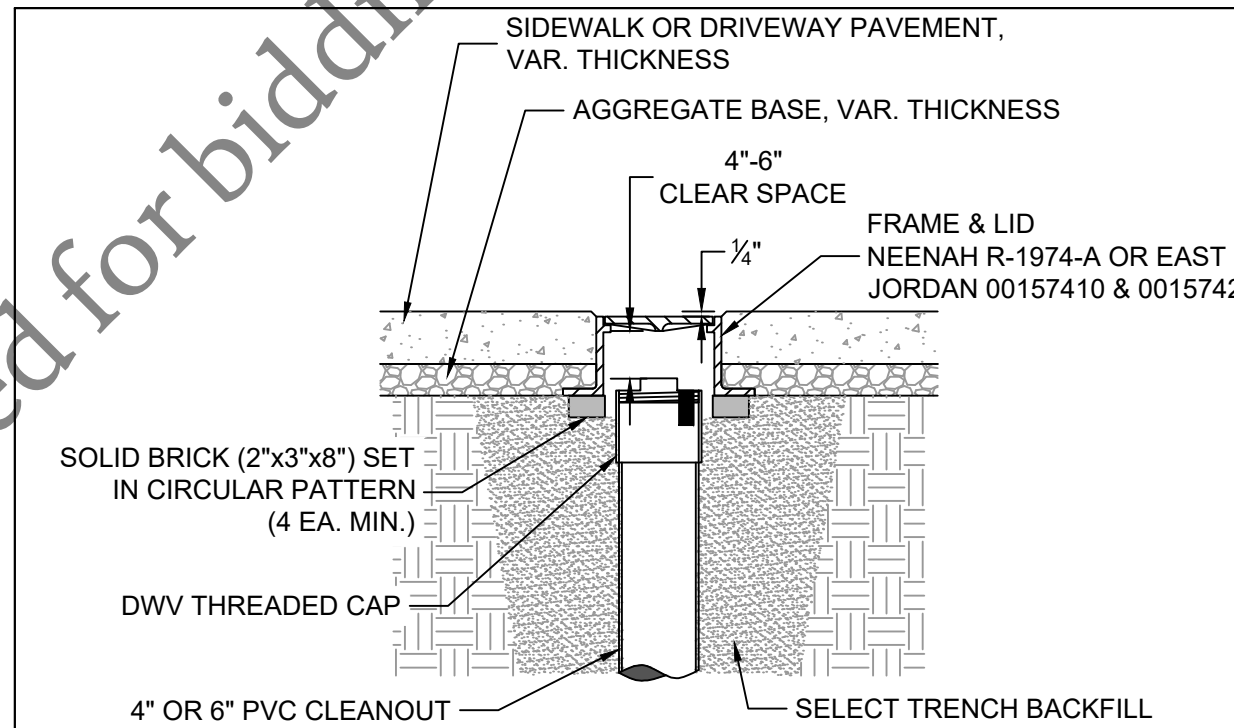
rev. 3/11/20

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



FLEXIBLE PIPE BEDDING DETAIL

rev. 3/11/20



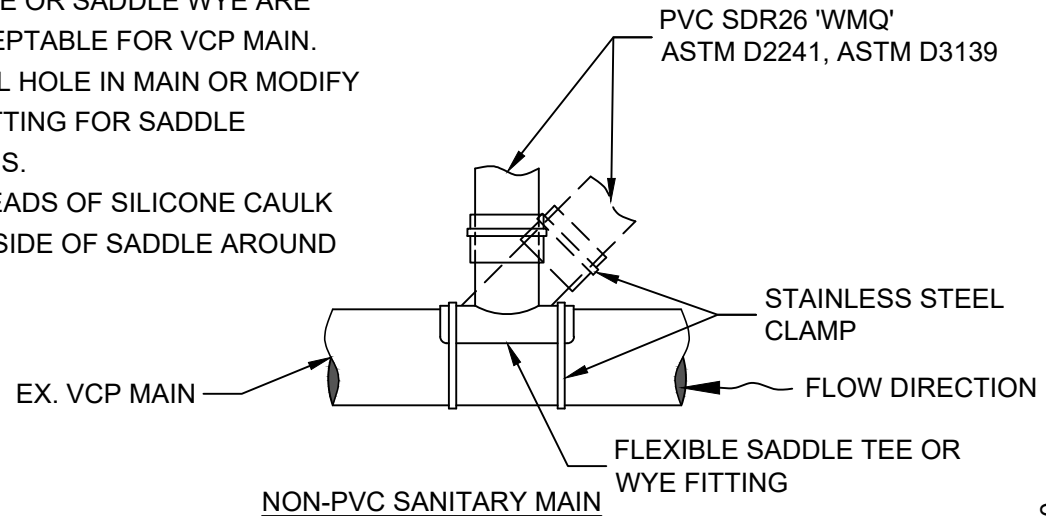
NOTES:

1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE CIRCUMFERENCE OF THE FRAME. THE BRICKS SHALL BE SET ON COMPACTED TRENCH BACKFILL.
4. THE FRAME SHALL BE SET TO AN ELEVATION THAT PROVIDES 4"-6" CLEAR SPACE BETWEEN THE TOP OF THE CLEANOUT CAP AND THE BOTTOM OF THE CASTING LID.
5. THE CONTRACTOR SHALL ENSURE THAT THE CLEANOUT CAP CAN BE UNSCREWED AND REMOVED AND REPLACED WITHOUT HINDRANCE.
6. THE FRAME SHALL BE SET ¼" MIN. TO ¾" MAX. BELOW FINAL PAVEMENT ELEVATION.

SERVICE CLEANOUT CASTING DETAIL

rev. 6/1/22

- NOTES:**
1. SADDLE TEE OR SADDLE WYE ARE BOTH ACCEPTABLE FOR VCP MAIN.
 2. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
 3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.

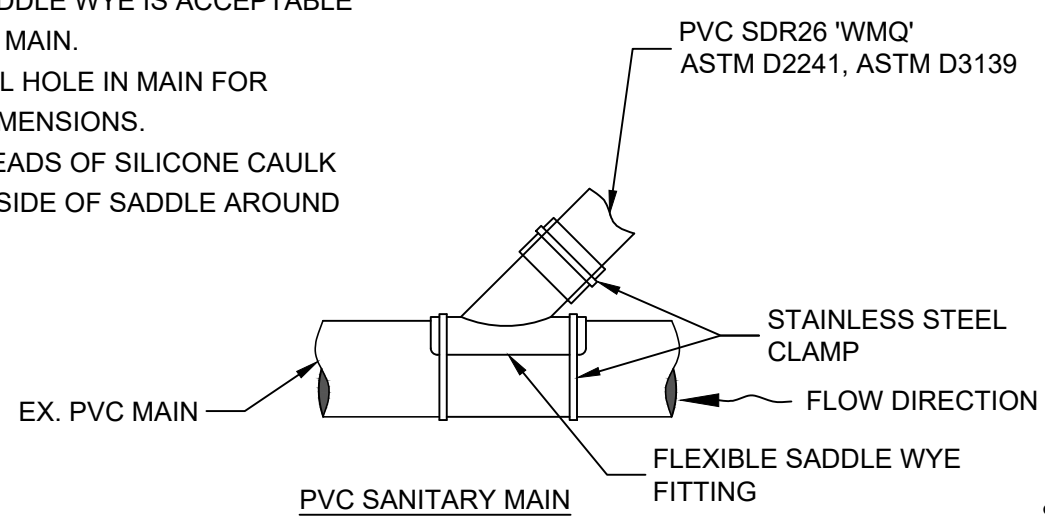


FLEXIBLE SADDLE CONNECTION DETAIL

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

rev. 3/11/20

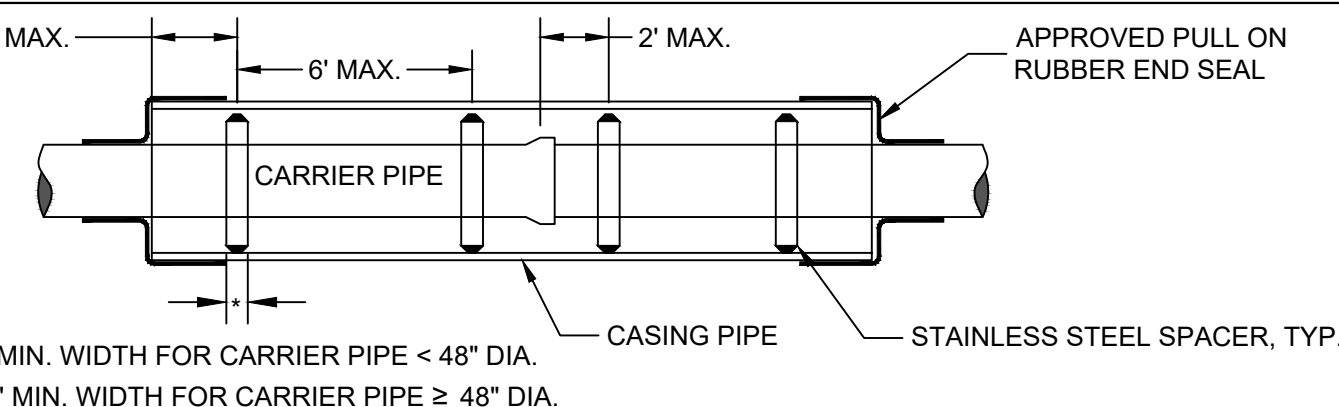
- NOTES:**
1. ONLY A SADDLE WYE IS ACCEPTABLE FOR A PVC MAIN.
 2. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
 3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL

(FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)

rev. 3/11/20



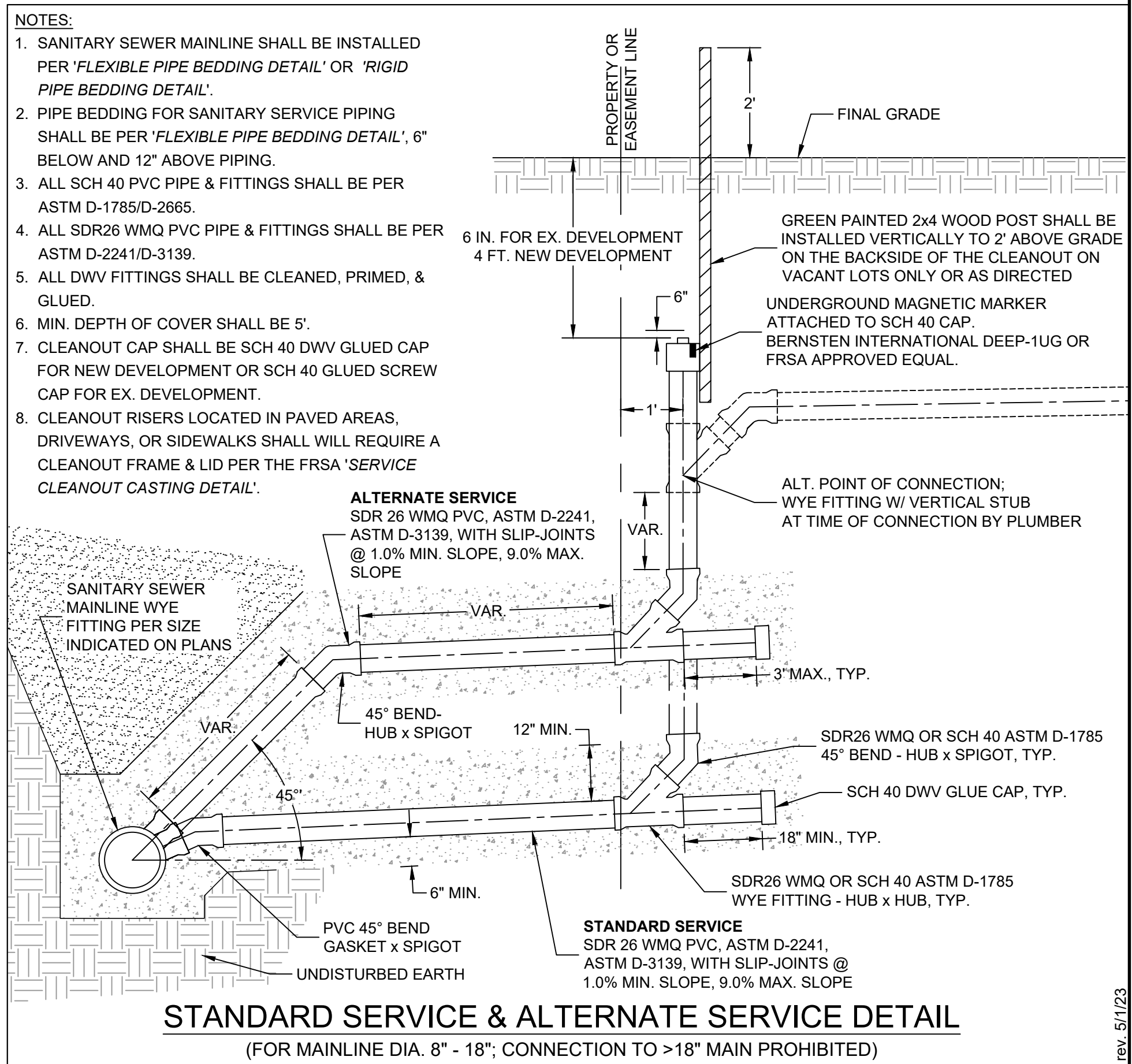
* 8" MIN. WIDTH FOR CARRIER PIPE < 48" DIA.
12" MIN. WIDTH FOR CARRIER PIPE ≥ 48" DIA.

NOTES:

1. CASING END SEALS & SPACERS SHALL BE AS MFD. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFR.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFR.'S RECOMMENDATION.

CASING & SPACER DETAIL

rev. 5/15/18



STANDARD SERVICE & ALTERNATE SERVICE DETAIL

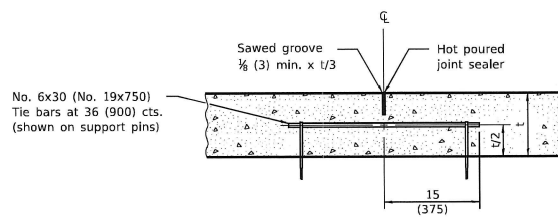
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

rev. 5/1/23

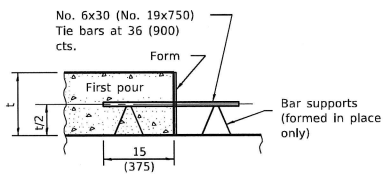


FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAIL SHEET
(NOT TO SCALE)
3501 KISHWAUKEE ST.
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

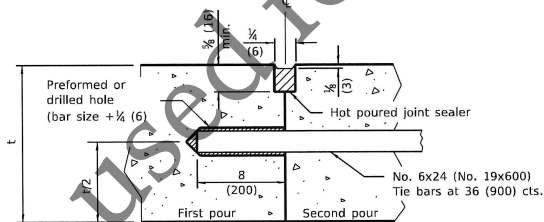
ISSUE
05/01/2023



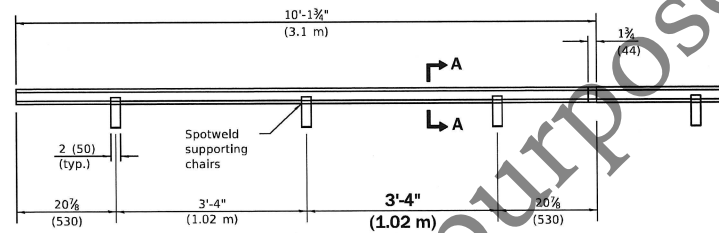
LONGITUDINAL SAWED JOINT



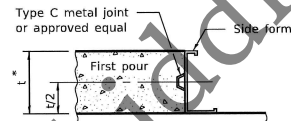
LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR FORMED IN PLACE OR MECHANICALLY INSERTED)



LONGITUDINAL CONSTRUCTION JOINT
(TIE BAR GROUTED IN PLACE)



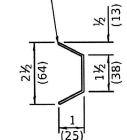
TYPE C METAL JOINT



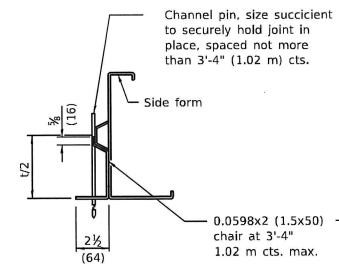
LONGITUDINAL KEYED JOINT

* 8 (203) min. pavement thickness for keyed joints.

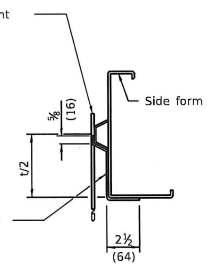
Sheet steel of suitable thickness to form keyway as detailed or approved equal.



SECTION A-A



SUPPORTING CHAIR ALTERNATE



SUPPORTING CHAIR ALTERNATE

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2018

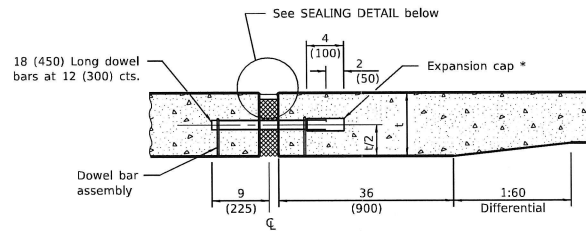
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018

Matthew A. Bales
ENGINEER OF DESIGN AND ENVIRONMENT

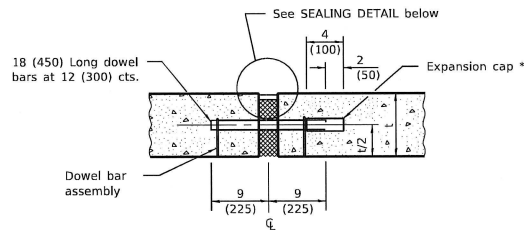
46-11 01555

DATE	REVISIONS	PAVEMENT JOINTS (Sheet 1 of 2)
1-1-18	Changed tie bar spacing to 36 (900) cts. Revised	
	DOWEL BAR TABLE	
1-1-08	Switched units to English (metric).	
		STANDARD 420001-09

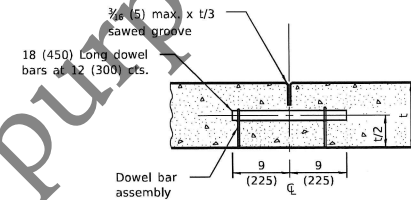


TRANSVERSE EXPANSION JOINT
(FOR PAVEMENTS WITH UNEQUAL THICKNESS)

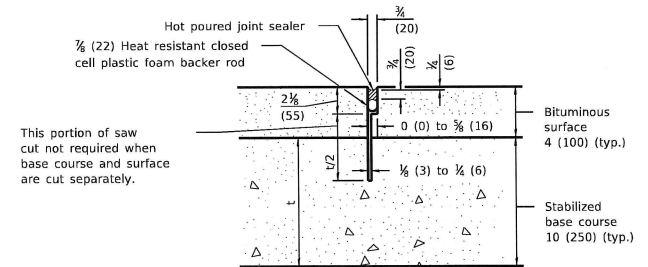
* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



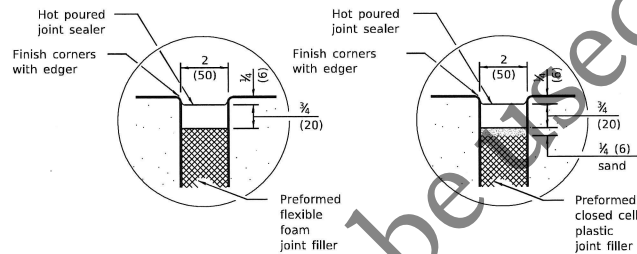
TRANSVERSE EXPANSION JOINT
(FOR PAVEMENTS WITH EQUAL THICKNESS)



TRANSVERSE CONTRACTION JOINT



TRANSVERSE CONTRACTION JOINT
(FOR CAM, CFA AND LFA BASE COURSE MIXTURES)



SEALING DETAIL

DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
10 (250) or greater	1 1/2 (38)
8 (200) thru 9.99 (249)	1 1/4 (32)
Less than 8 (200)	1 (25)

Illinois Department of Transportation

PASSED January 1, 2018
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2018
Matthew R. Davis
ENGINEER OF DESIGN AND ENVIRONMENT

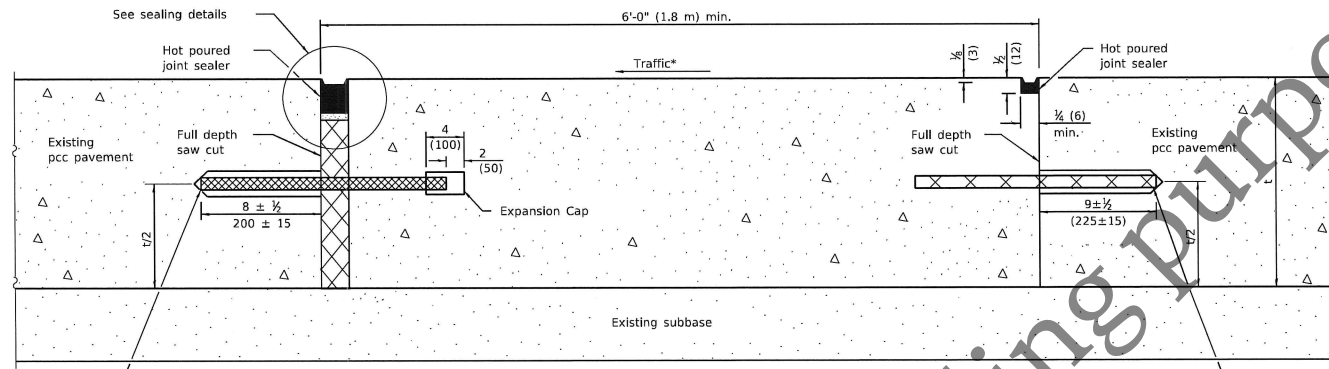
20-541 GENESIS

PAVEMENT JOINTS

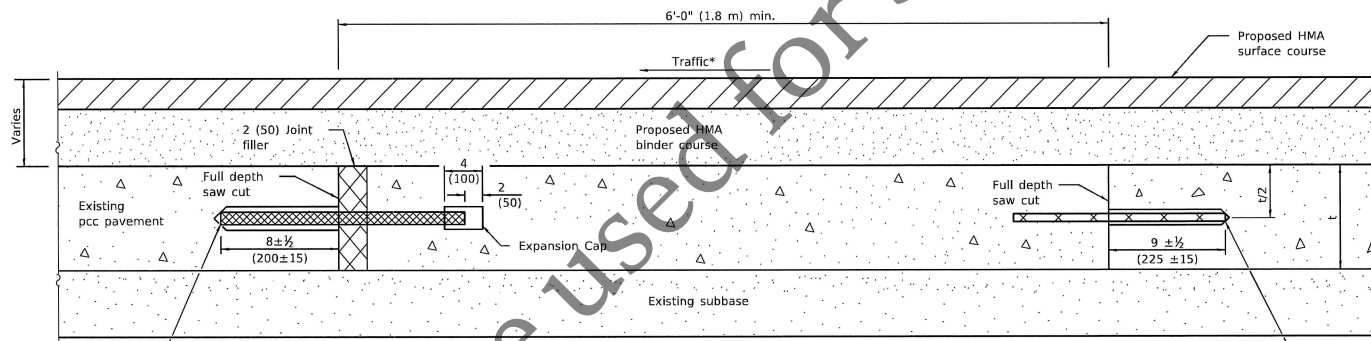
(Sheet 2 of 2)

STANDARD 420001-09

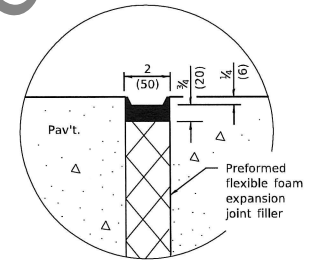
TRANSVERSE EXPANSION JOINTS



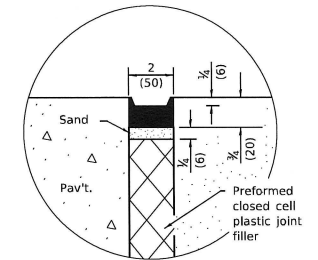
METHOD I
(Without Resurfacing)



METHOD II
(With Resurfacing)



SEALING DETAIL



SEALING DETAIL

NOTE

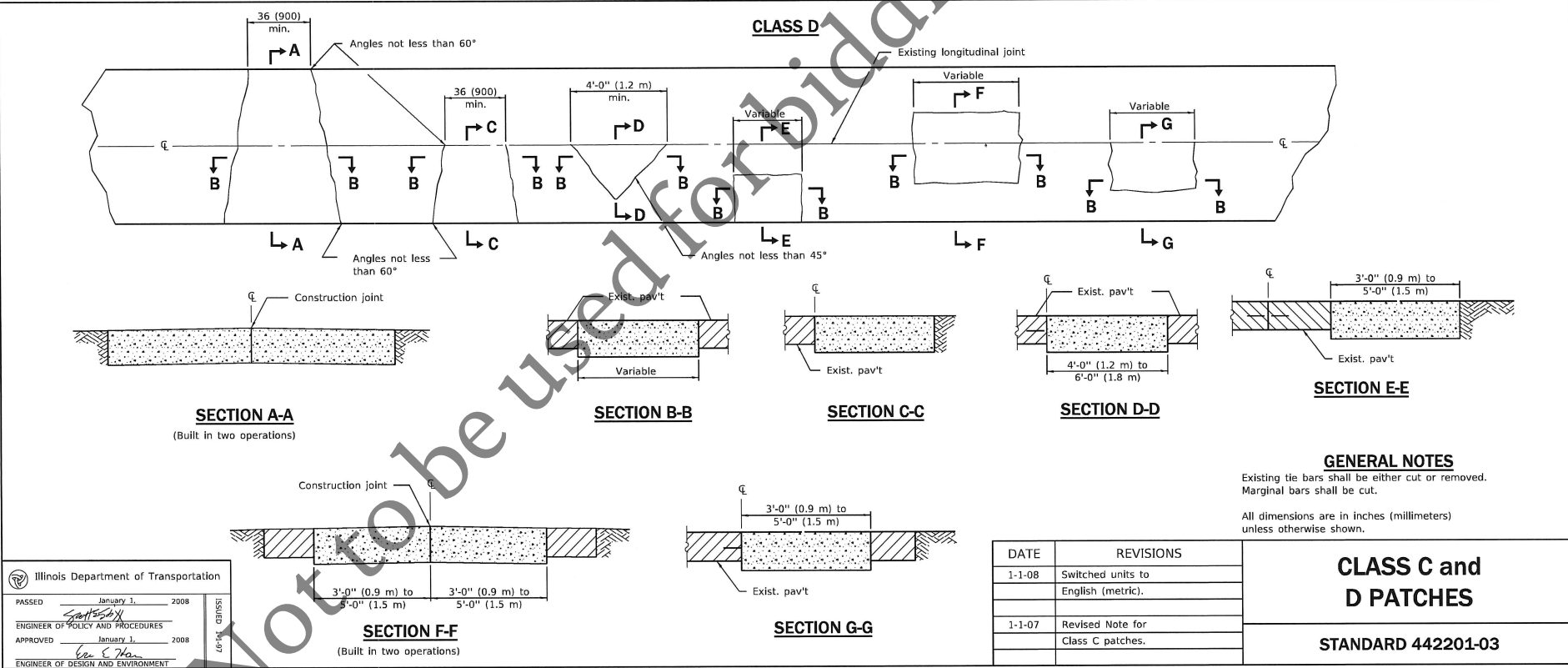
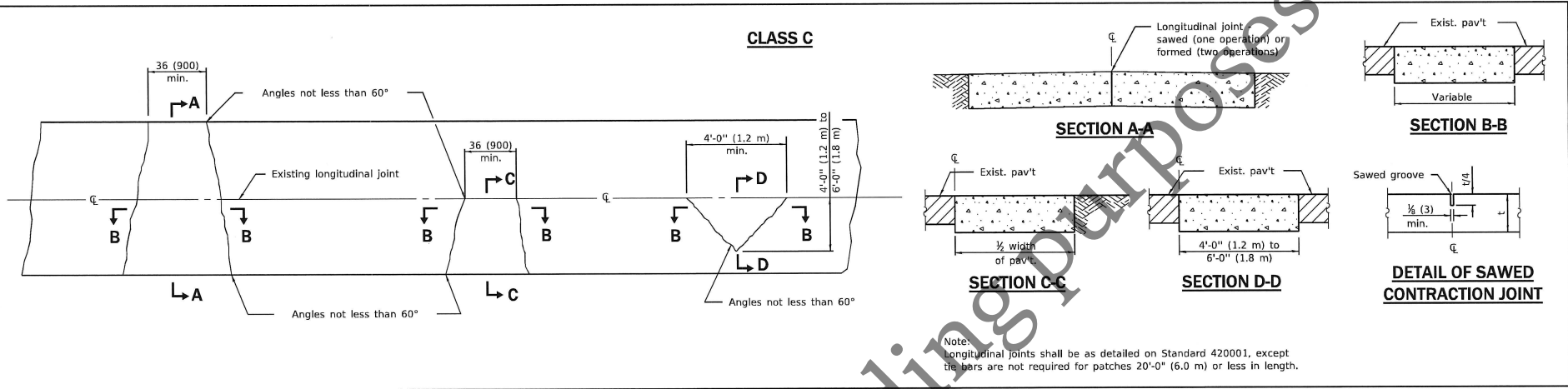
- * When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.

Illinois Department of Transportation	
PASSED	January 3, 2018
ENGINEER OF POLICY AND PROCEDURES	
APPROVED	January 3, 2018
ENGINEER OF DESIGN AND ENVIRONMENT	

CLASS B PATCHES

(Sheet 2 of 2)

STANDARD 442101-08



Illinois Department of Transportation

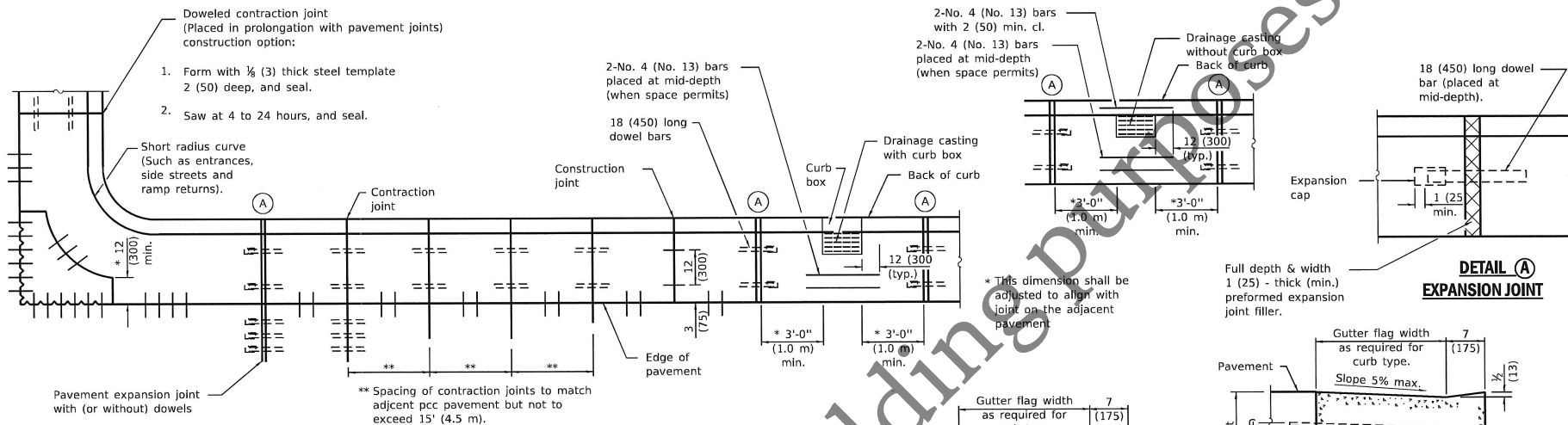
PASSED January 1, 2008

ENGINEER OF POLICY AND PROCEDURES

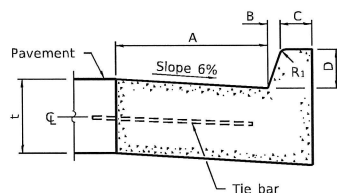
APPROVED January 1, 2008

ENGINEER OF DESIGN AND ENVIRONMENT

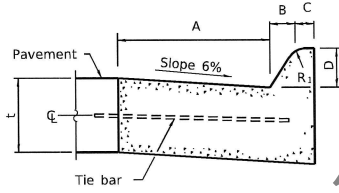
ISSUED 10-07



PLAN
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE



BARRIER CURB



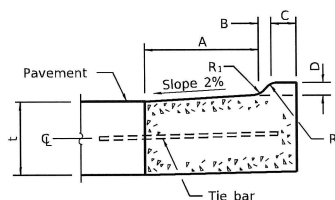
MOUNTABLE CURB

TYPE	A	B	C	D	R ₁
B-6.06 *	6	1	6	6	1
(B-15.15)	(150)	(25)	(150)	(150)	(25)
B-6.12	12	1	6	6	1
(B-15.3)	(300)	(25)	(150)	(150)	(25)
B-6.18	18	1	6	6	1
(B-15.45)	(450)	(25)	(150)	(150)	(25)
B-6.24	24	1	6	6	1
(B-15.60)	(600)	(25)	(150)	(150)	(25)
B-9.12	12	2	5	9	1
(B-22.30)	(300)	(50)	(125)	(225)	(25)
B-9.18	18	2	5	9	1
(B-22.45)	(450)	(50)	(125)	(225)	(25)
B-9.24	24	2	5	9	1
(B-22.60)	(600)	(50)	(125)	(225)	(25)

* For corner islands only.

TYPE	A	B	C	D	R ₁	R ₂
M-2.06	6	2	4	2	3	2
(M-5.15)	(150)	(50)	(100)	(50)	(75)	(50)
M-2.12	12	2	4	2	3	
(M-5.30)	(300)	(50)	(100)	(50)	(75)	(50)
M-4.06	6	4	3	4	3	
(M-10.15)	(150)	(100)	(75)	(100)	(75)	NA
M-4.12	12	4	3	4	3	
(M-10.30)	(300)	(100)	(75)	(100)	(75)	NA
M-4.18	18	4	3	4	3	
(M-10.45)	(450)	(100)	(75)	(100)	(75)	NA
M-4.24	24	4	3	4	3	
(M-10.60)	(600)	(100)	(75)	(100)	(75)	NA
M-6.06	6	6	2	6	2	
(M-15.15)	(150)	(150)	(50)	(150)	(50)	NA
M-6.12	12	6	2	6	2	
(M-15.30)	(300)	(150)	(50)	(150)	(50)	NA
M-6.18	18	6	2	6	2	
(M-15.45)	(450)	(150)	(50)	(150)	(50)	NA
M-6.24	24	6	2	6	2	
(M-15.60)	(600)	(150)	(50)	(150)	(50)	NA

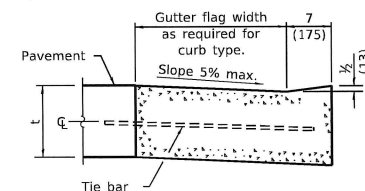
**ADJACENT TO PCC BASE COURSE
WITH HMA SURFACING**



M-2.06 (M-5.15) and M-2.12 (M-5.30)

Full depth & width
1 (25) - thick (min.)
preformed expansion
joint filler.

DETAIL A
EXPANSION JOINT



**DEPRESSED CURB ADJACENT
TO CURB RAMP ACCESSIBLE
TO THE DISABLED**

GENERAL NOTES

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2022

ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022

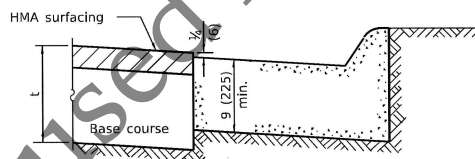
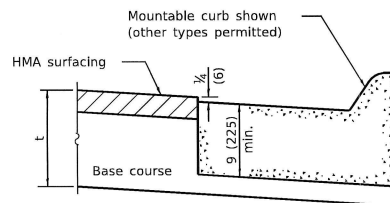
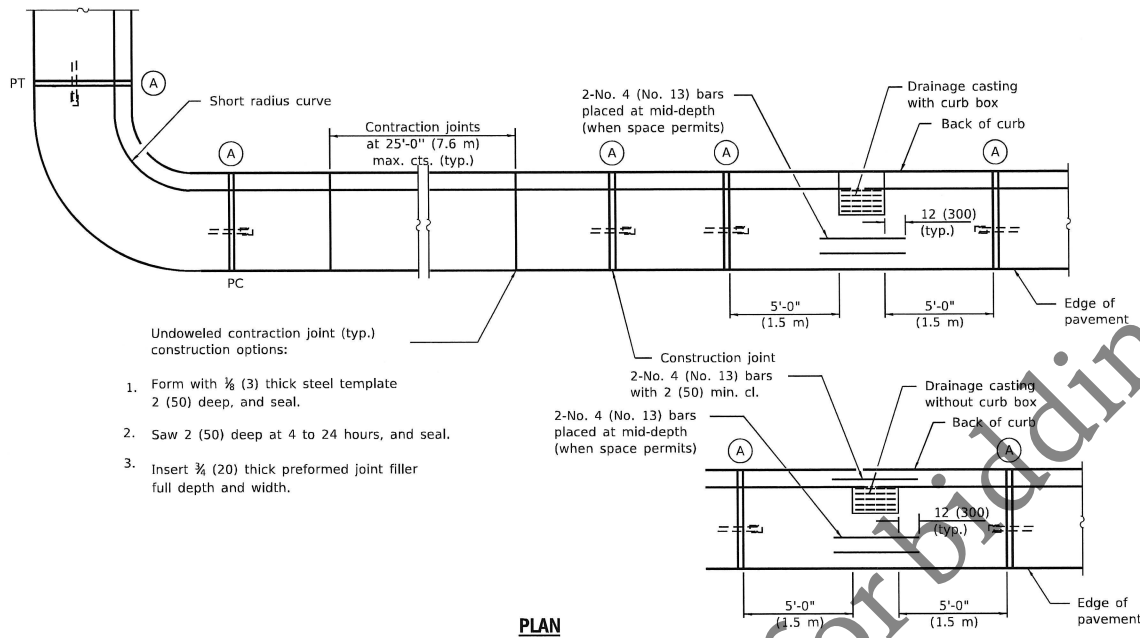
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS	
1-1-22	Revised contraction joint spacing adjacent to pcc pavement.	
1-1-18	Revised General Note for tie bar spacing to 36 (900) cts.	

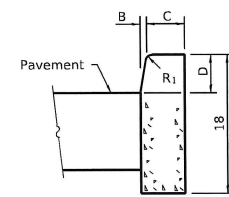
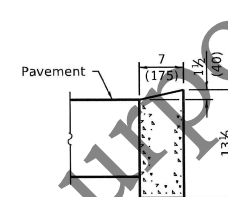
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

(Sheet 1 of 2)

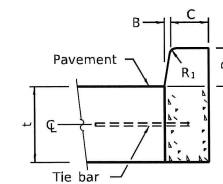
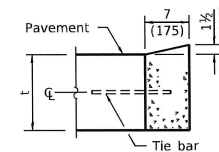
STANDARD 606001-08



ADJACENT TO FLEXIBLE PAVEMENT



ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB

BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

**CONCRETE CURB TYPE B
AND COMBINATION
CONCRETE CURB AND GUTTER**
(Sheet 2 of 2)

STANDARD 606001-08

Illinois Department of Transportation

PASSED January 1, 2022

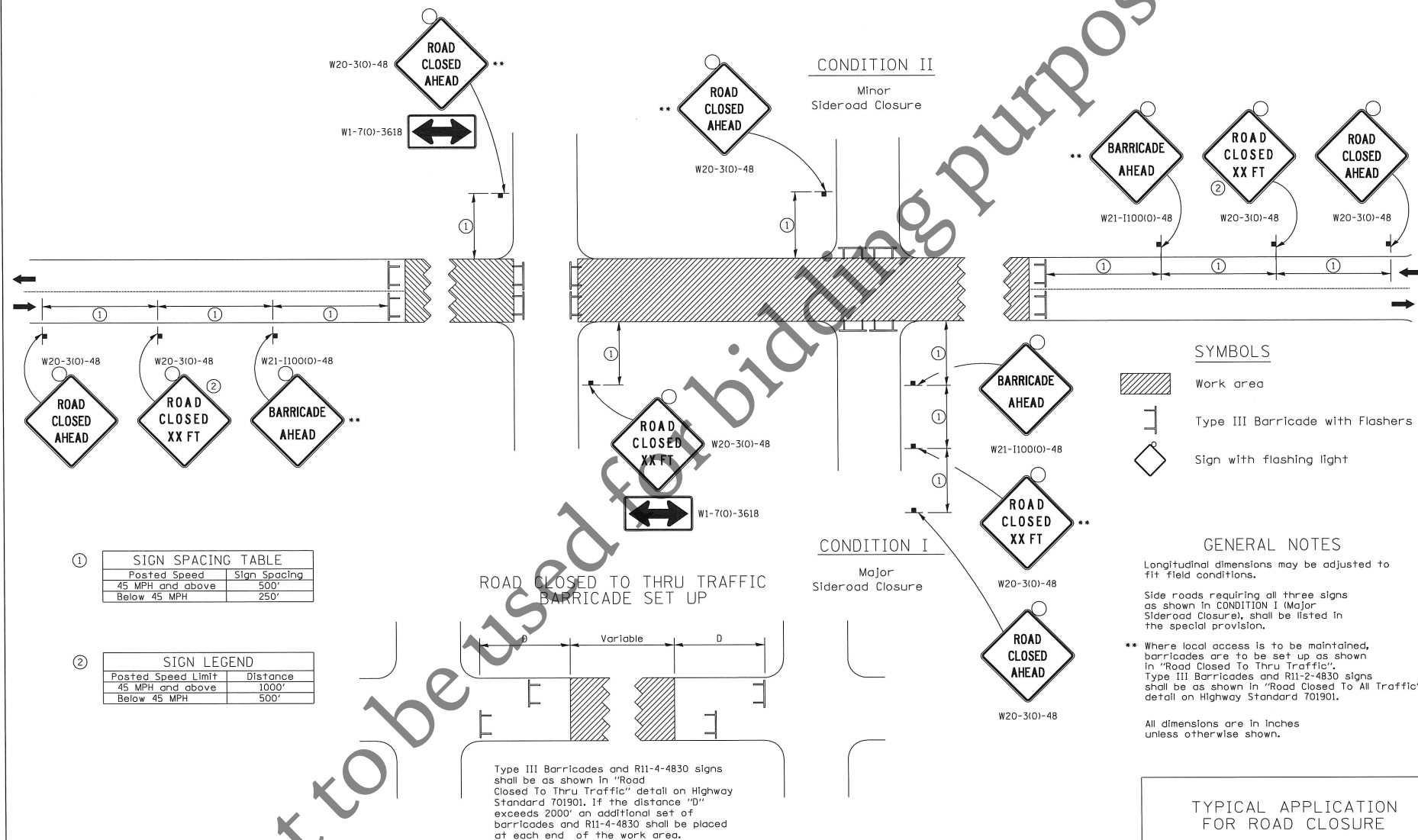
Michael P. Smith
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022

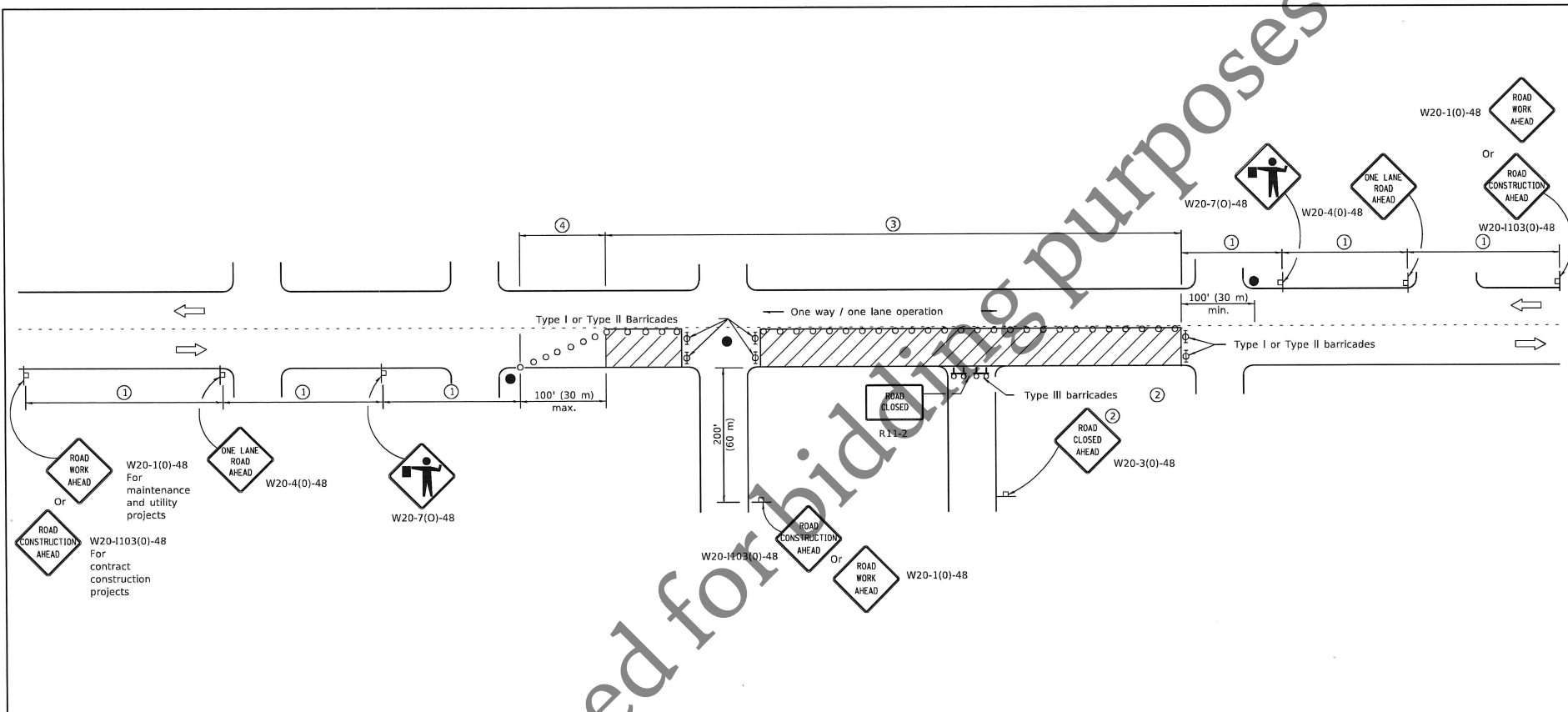
John A. Smith
ENGINEER OF DESIGN AND ENVIRONMENT

26-1-1-0155

TRAFFIC CONTROL FOR ROAD CLOSURE



FILE NAME - District 2 Standard	USER NAME - 1007/01/2019	DESIGNED -	REVISED - 8-03-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - 1-05-16								
		CHECKED -	REVISED - 8-27-13								
		DATE -	REVISED - 10-17-11								
PLOT SCALE - 1/8" = 1'	PLOT DATE - 11/18/2019				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT
CONTRACT NO.											



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

- ① Refer to SIGN SPACING TABLE for distances.
- ② For approved sideroad closures.
- ③ Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.
- ④ Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

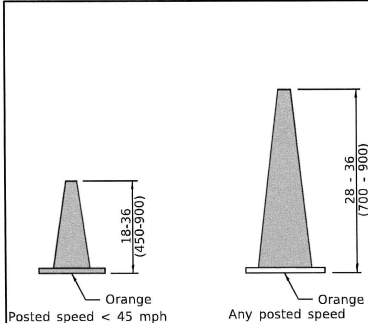
PASSED January 1, 2011

ENGINEER OF SAFETY ENGINEERING

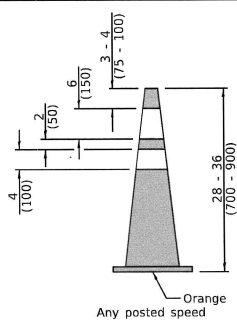
APPROVED January 1, 2011

ENGINEER OF DESIGN AND ENVIRONMENT

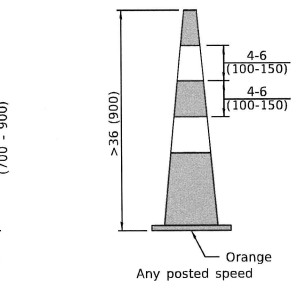
DATE	REVISIONS	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
1-1-11	Revised flagger sign.	
1-1-09	Switched units to English (metric).	STANDARD 701501-06
	Corrected sign No.'s.	



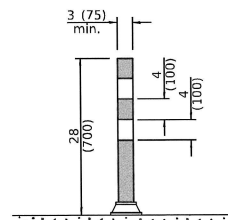
DAYTIME USE



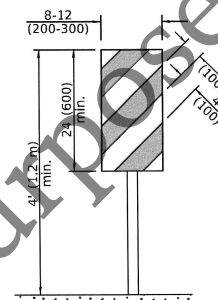
CONES



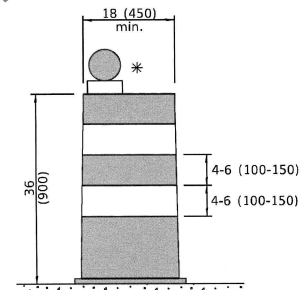
DAY OR NIGHTTIME USE



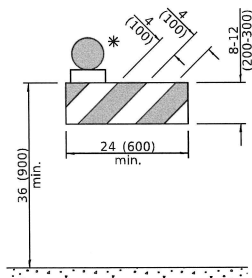
TUBULAR MARKER



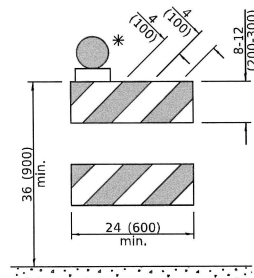
**VERTICAL PANEL
POST MOUNTED**



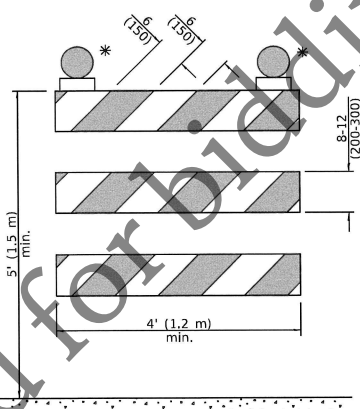
DRUM



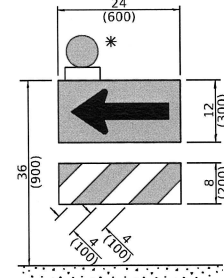
TYPE I BARRICADE



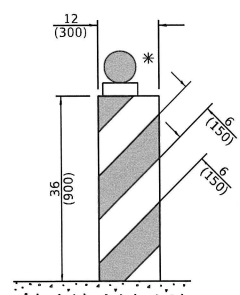
TYPE II BARRICADE



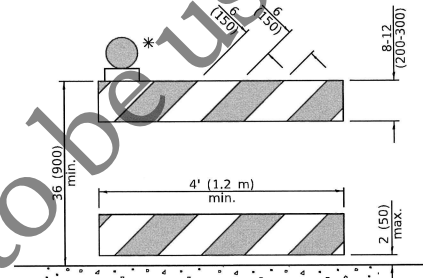
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2019
ENGINEER OF SAFETY PROG. AND ENGINEERING

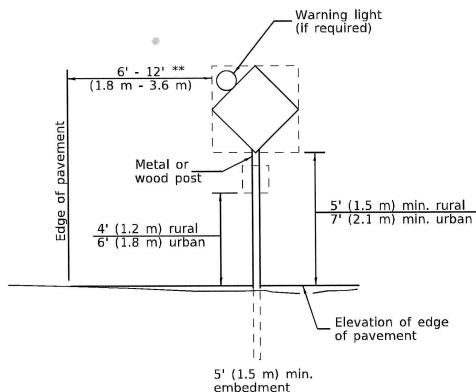
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-19	Revised cone usage and added cones >36" (900 mm) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from orange to white background.

TRAFFIC CONTROL DEVICES

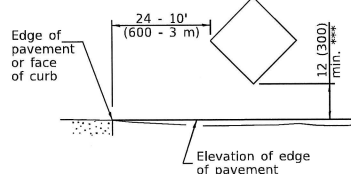
(Sheet 1 of 3)

STANDARD 701901-08



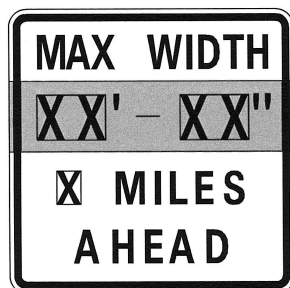
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



SIGNS ON TEMPORARY SUPPORTS

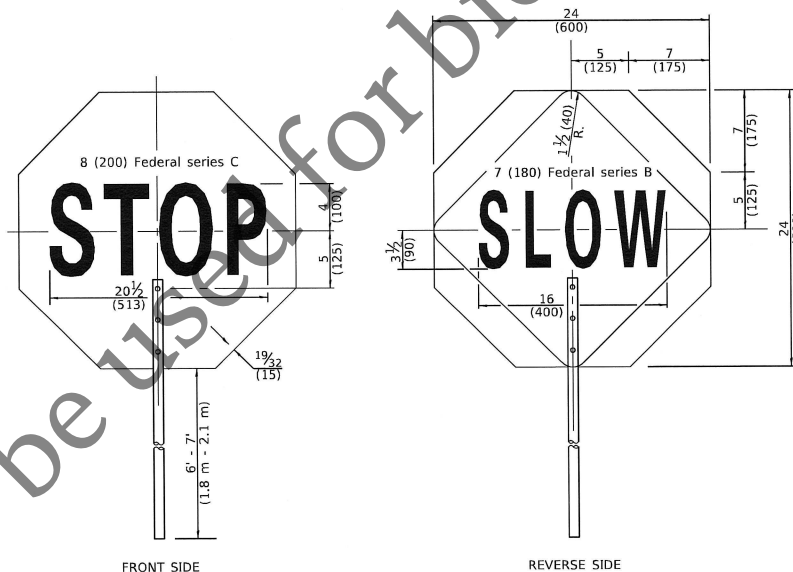
*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



W12-I103-4848

WIDTH RESTRICTION SIGN

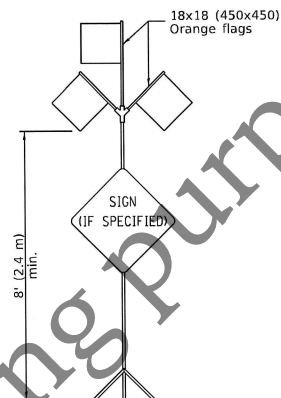
XX'-XX" width and X miles are variable.



FRONT SIDE

REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN



HIGH LEVEL WARNING DEVICE

ROAD
CONSTRUCTION
NEXT X MILES

G20-I104(0)-6036

END
CONSTRUCTION

G20-I105(0)-6024

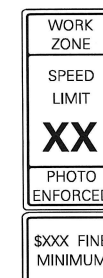
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



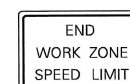
W21-III5(0)-3618

R2-1-3648

R10-I108p-3618 ****

R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08

Illinois Department of Transportation

APPROVED January 3, 2019

ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 3, 2019

ENGINEER OF DESIGN AND ENVIRONMENT

Section V

General Provisions & Technical Specifications for Sanitary Sewer Construction

(Separate document incorporated by reference)