

# **Four Rivers Sanitation Authority Rockford, Illinois**

**Bidding Requirements and Contract Forms**

**for**

**2022-2023 Collection System Repairs**

**Capital Project No. 2354**

# Four Rivers Sanitation Authority Rockford, Illinois

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

for

## 2022-2023 Collection System Repairs

Capital Project No. 2354

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*Not to be used for bidding purposes*

**Section I**  
**Bidding Requirements**

*Not to be used for bidding purposes*

## Article 1 — Notice to Bidders

The Four Rivers Sanitation Authority (FRSA) will receive signed and sealed bids for the 2022-2023 Collection System Repairs, Capital Project No. 2354, at the Steve Graceffa Administration Building (Administration Building) at 3501 Kishwaukee Street, Rockford, Illinois until 10:00 a.m. on Thursday, April 21, 2022, at which time and place responsive / responsible bids will be publicly opened and read aloud.

The 2022-2023 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 indicated in the Contract documents.

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

All demolition, construction, installation, restoration and associated Project work shall be completed by October 31, 2022. Liquidated damages shall be \$300.00 per calendar day.

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

Plans and specifications may also be viewed at the offices of the Northern Illinois Building Contractors Association at 1111 S. Alpine Rd, Rockford, Illinois. For more information, visit the FRSA website at [www.rwrddst.il.us](http://www.rwrddst.il.us).


All construction shall be done in accordance with specifications on file with FRSA, including FRSA's *General Provisions and Technical Specifications for Sanitary Sewer Construction* (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 4th day of April, 2022.

  
BY: Timothy S. Hanson, Executive Director

## Article 2 — Instructions to Bidders

### 1 General

#### 1.1 Scope and Intent

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

#### 1.2 Contradictions

If in the case of apparent contradiction between or among the Contract Documents, the Contract Documents shall be consulted in the following order: Addenda, Agreement, Supplementary Drawings, Instructions to Bidders, Detailed Specifications, Plans, 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

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

The Bidder is responsible for verifying current information at the State's website.

2. Public Act 83-1030 entitled "Steel Products Procurement Act" requires that steel products used or supplied in performance of this Contract or subcontract shall be manufactured or produced in the United States with three exceptions.

The provisions of this Section shall not apply:

- a. Where the Contract involves an expenditure of less than \$500.
  - b. Where the executive head of the public agency certifies in writing that
    - i. the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements, or
    - ii. obtaining the specified products, manufactured or produced in the United States would increase the cost of the Contract by more than 10%.
  - c. When its application is not in the public interest.
3. Public Act 96-929 (30 ILCS 570) provides that Illinois residents be employed on Illinois public works projects, provided there has been a period of excessive unemployment (5%) in the State of Illinois as defined in the Act; and, further, that Illinois workers are available and capable of performing the particular type work involved.
  4. Public Act 101-0221 requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:
    - a. the illegality of sexual harassment

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

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

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

## **2.2 Americans with Disabilities Act**

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

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

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

### **3 General Instructions**

#### **3.1 Bidder's Responsibility**

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

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

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

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

#### **3.2 Addenda and Interpretations**

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

#### **3.3 Laws and Regulations**

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

#### **3.4 Quantities Estimated Only**

Bidders are warned that the estimate of quantities of the various items of work and materials, as set forth in the Proposal form, is approximate only and is given solely to be used as a uniform

basis for the comparison of bids. The quantities actually required to complete the Contract work may be less or more than so estimated, and if awarded a contract for the work specified, the Contractor further agrees that he will not make any claim for damages or for loss of profits or for an extension of time because of a difference between the quantities of the various classes of work assumed for comparison of bids and quantities of work actually performed.

### **3.5 Form, Preparation, and Presentation of Proposals**

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

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

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

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

### **3.6 Bid Security**

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

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

### **3.7 Affidavit of Compliance**

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



### **3.8 Statement of Qualifications**

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

### **3.9 Comparison of Proposals**

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

### **3.10 Acceptance of Bids and Basis of Award**

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

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

The bidder whose Proposal is accepted shall enter into a written Contract for the performance of the work and furnish the required bonds and insurance certificate within ten (10) days after written notice by FRSA's Director of Engineering has been served on such bidder personally or by mailing a postpaid wrapper to such bidder at the address given in his proposal. If the bidder to whom the Contract is awarded refuses or neglects to execute it or fails to furnish the required bond and insurance within five (5) days after receipt by him of the notice, the amount of his deposit shall be forfeited and shall be retained by the FRSA as liquidated damage and not as a penalty. It being now agreed that said sum is a fair estimate of the amount of damages that the FRSA will sustain in case said bidder fails to enter into a Contract and furnish the required bond and insurance. No plea of mistake in the bid shall be available to the bidder for the recovery of his deposit or as a defense to any action based upon the neglect or refusal to execute a Contract.

#### **3.10.1 Evaluation of Responsiveness**

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

#### **3.10.2 Evaluation of Responsibility**

To be judged as responsible, the bidder shall:

- a. Have adequate financial resources for performance, the necessary experience, organization, technical qualifications, and facilities, or a firm commitment to obtain such by subcontracts;
- b. Be able to comply with the required completion schedule for the project;
- c. Have a satisfactory record of integrity, judgment, and performance, including, in particular, any prior performance on contracts from FRSA;

- d. Have an adequate financial management system and audit procedures, that provide efficient and effective accountability and control of all property, funds, and assets;
- e. Conform to the civil rights, equal employment opportunity and labor law requirements of the Bid Documents.
- f. Have satisfactorily completed no less than three (3) sanitary sewer system repair contracts within the past five (5) years of equal or greater value to the bid being submitted.

### **3.11 The Rejection of Bids**

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

### **3.12 Insurance and Bonding**

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

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

#### **3.12.1 General**

The Contractor shall ensure that:

1. All insurance policies shall be specific to the project.
2. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for 2022-2023 Collection System Repairs, Capital Project No. 2354.
3. FRSA shall be named as Additional Insured in all policies; this shall include the Owners' Contractors' Protective Policy option.
4. All completed operations coverages and bonds shall remain in force for a period of two (2) years following acceptance of the Project and completed operations shall stay in force for two (2) years following completion of the Project.

#### **3.12.2 Insurance**

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

1. General Liability: \$1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit. The Contractor shall provide "XCU" coverage.

2. Automobile Liability: \$1,000,000 combined single limit per accident for bodily injury and property damage including coverages for owned, hired or non--owned vehicles, as applicable.
3. Workers' Compensation and Employers Liability: Workers' Compensation limits as required by statute and Employers Liability limits of \$500,000 per accident and \$500,000 per disease.
4. Umbrella: \$2,000,000 per occurrence/aggregate for contracts valued at \$500,000 or over, or \$1,000,000 for contracts below \$500,000. \$10,000 is maximum allowable self-retained limit.
5. Errors and Omissions: If the Contractor performs professional services, he shall maintain errors and omissions insurance with a limit no lower than \$1,000,000 for the duration of the contract.

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

- a. Unless otherwise provided in paragraph "c" of this section, FRSA, its officers, officials, employees and volunteers shall be covered as additional insureds as respects liability arising out of activities performed by or on insured's general supervision of the Contractor, products and completed operations of the Contractor, premises owned, occupied or used by the Contractor, or automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to FRSA, its officers, officials, employees, volunteers, or agents.
- b. Unless otherwise provided in paragraph "c" of this section, the Contractor's insurance coverage shall be primary insurance as respects FRSA, its officers, officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by FRSA, its officers, officials, employees, volunteers, or agents shall be excess of the Contractor's insurance and shall not contribute with it.
- c. As an acceptable alternative to provisions "a" and "b" of this section, the Contractor may provide owner's and contractor's protective liability insurance with coverage limits, named insureds, and in conformity with all applicable specifications of this section.
- d. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to FRSA, its officers, officials, employees, volunteers, or agents.
- e. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- f. All Coverages — Each insurance policy required by this clause shall not be suspended, voided, canceled by either party, reduced in coverage, or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to FRSA.

### **3.12.3 Best's Ratings**

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

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

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

#### **3.12.4 Performance Bond and Labor & Materials Payment Bond Form**

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

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

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

#### **3.12.5 Correction of Contractor's Insurance or Bond Deficiencies**

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

#### **3.12.6 Indemnification Clause**

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

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

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

### **3.13 Tax Exemption**

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

Not to be used for bidding purposes

## Article 3 – Detailed Specifications

### 1 General

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

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

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

Utility locations shown on the plans are based on records of varying degrees of 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 location.

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

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

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

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

### 2 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 Rockford           | Jordan Masemoore  | (779) 348-7634 | <a href="mailto:Jordan.masemoore@rockfordil.gov">Jordan.masemoore@rockfordil.gov</a>       |
| City of Loves Park         | Shannon Messinger | (815) 654-5040 | <a href="mailto:shannonmessing@cityoflovespark.com">shannonmessing@cityoflovespark.com</a> |
| IL Dept. of Transportation | Dan Long          | (815)284-5353  | <a href="mailto:Dan.long@ilinois.gov">Dan.long@ilinois.gov</a>                             |

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. More advanced notification shall be provided if required by permits.

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

## **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 assure 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. 1
  - At a minimum, the Contractor shall notify the Rockford Park District 48 hours prior to mobilizing to the site. Contact Tim Bragg at 815.987.8865, timbragg@rockfordparkdistrict.org.
  - Clearing and tree removal shall be measured and paid for as specified elsewhere herein.
  - Contractor shall obtain Rockford Park District and FRSA approval for removal of any trees over 6" in diameter. Coordinate site visit for approval with FRSA inspector.
  - Chips produced in clearing and grubbing may be left on site provided they are spread no more than 4" thick.
  - Contractor must implement ground protection mats over existing storm sewer facilities prior to crossing with any equipment. See Map No. 1 for location.
- Map No. 3 – One access route to the work site is through the Lathrop Elementary School parking lot. Contact Rockford Public School District 205 (RPS) Maintenance Manager Leo Waskiewicz to coordinate access to eliminate or minimize impact to school operations; 815.490.4133 ext. 74016 Coordinate gate access to Forest Preserve property with FRSA Inspector.
- Map No. 13 – Coordinate existing lamp pole removal and reinstallation with the City of Rockford Street Department. 779.348.7260.
- Map No. 18 – Contractor shall provide notification to residents immediately impacted by work 5 business days (minimum) in advance of mobilizing equipment to the site.
- Map No. 24 – Contractor must provide notification to RPS 48 hours in advance of work to minimize or eliminate impact to school traffic. Contact RPS Maintenance Manager Leo Waskiewicz at 815.490.4133 ext. 74016.
- Maps 25, 34, 35 & 36 - Work may not proceed until IDOT Utility Permit is issued.
- Map 32 – Contractor shall coordinate with the FRSA and property owner and make a reasonable effort to minimize impact to normal business operations.

### **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 by-pass 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 offices 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 includes 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*.

## **4.4 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 – 41) 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 per Location Map 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, 0358 or 2008 or R-1915-2101 bolt down) adjusted to grade as indicated on the project Location Maps provided in *Section III* or as 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 one inch (1") above finish grade in turf areas and at finished grade in paved areas. Concrete adjusting rings shall be standard reinforced concrete pipe pattern. Minimum ring thickness for concrete adjustment rings shall be four inches (4"). Maximum ring thickness shall be twelve inches (12"). Concrete adjustment rings shall conform to ASTM C478 and ASTM C139, latest revision. Concrete for adjusting rings: Class "A" as specified in T.S. 5:3(a) in the FRSA's General Provisions and Technical Specifications for Sanitary Sewer Construction. If adjustment less than 4" is required, expanded polypropylene (EPP) rings are required.

All adjusting ring joints shall be sealed watertight by means of EZ Stik, Kent-Seal, or equal (including cast iron frame to concrete adjusting ring). Minimum adjusting ring placement height is four inches (4"). Maximum adjusting ring placement height is twelve inches (12"). No more than thirty inches (30") from the top of casting to the first step will be allowed.

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 C124493 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 connector meeting the requirements of ASTM C923. The design shall be in accordance with the manhole and pipe manufacturer requirements and shall receive prior FRSA approval. All sanitary manholes twenty-two feet (22') deep or more shall use pipe-

to-manhole gaskets rated to a minimum of 15 psi hydrostatic pressure (A LOK model X-CEL or FRSA-approved equivalent).

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

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

The Contractor shall be responsible for verifying all manhole depths, pipe 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, including water stop for doghouse manholes.
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  $\pm 0.02$  feet from the proposed grade and/or  $\pm 0.15$  feet from the proposed line will not be accepted. More stringent tolerances may be required in the field 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 for 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, blasting, barring or wedging for removal from their original beds.

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

## **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 operate at 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 operate at 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 1A 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 elevation of the road shoulder, sidewalk, driveway, parking lot or pavement. The materials and compaction shall be in accordance with *Section 208* and *550.07*, Method 1 of the *IDOT Standard Specifications*.

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

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

The Contractor shall furnish a backhoe and operator during the testing of the backfill placed during construction. All compaction tests will be performed at the Contractor's expense by an approved, independent geotechnical-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.

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

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

#### **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.

## **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 pavement edges shall be saw cut full depth. All 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 detail 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 442101-07* 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 Aggregate Base Course, Type B**

Aggregate Base course replacement shall consist of matching existing thickness or placing twelve inches (12") minimum thickness, whichever is greater, compacted Aggregate Base Course, Type B, beneath pavement surfaces to be replaced throughout the project area. This item shall include all subgrade preparation 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 design
2. PCC Pavement mix design.
3. Aggregate base course gradation.

### **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 and 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](mailto:taylor.hennelly@rockfordil.gov).

### **19.2 Submittals**

1. Tree Maintenance Permits as applicable.

### **19.3 Payment**

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

Payment for Clearing and Tree Removal and shall be made at the Contract unit price per Acre. This pay item shall only be applicable to work shown on Map No. 1 and No. 3 attached in *Section III*.

## **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 that laboratory and field testing of their product has been accomplished, and that it meets all the foregoing requirements based upon such testing.

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

### **20.2 Seeding and Fertilizing**

Ground surfaces including rights-of-way and easements 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 or as indicated under easement requirements 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 or as indicated under specific easement requirements.

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 discourage weed growth will be completed by the Contractor until the project is accepted by the FRSA.

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

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

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

The mulch material described above shall be supplied in packages having a gross weight 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 and 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 traffic or pedestrians, as determined by the FRSA or roadway authority, the Contractor shall furnish any additional traffic control devices necessary to direct and protect his 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 and 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 and 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, except for new doghouse manholes, shall be vacuum tested per ASTM C124493 Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test prior to placing into service.

## **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.

**Section II**  
**Contract Forms**

## Proposal

**Project:** 2022-2023 Collection System Repairs  
Capital Project No. 2354

**Location:** Various locations throughout the public right-of-way and sanitary sewer easements within the City of Rockford, Illinois.

**Completion Date:** October 31, 2022

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

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

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

\_\_\_\_\_  
(Address of Individual, Partnership or Corporation)

Gentlemen:

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

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

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

4. That accompanying the Proposal is a Bidder's Bond in the amount specified in Article 1, Notice to Bidders, payable to the Board of Trustees of the Four Rivers Sanitation Authority, which it is agreed, shall be retained as liquidated damages by said Four Rivers Sanitation Authority if the undersigned fails to execute the Contract in conformity with the contract documents incorporated in the contract documents and furnish bond as specified, within ten (10) days after notification of the award of the contract to the undersigned.
5. The Bidder is of lawful age and that no other person, firm or corporation has any interest in this Proposal or in the Contract proposed to be entered into.
6. The Bidder is not in arrears to the Four Rivers Sanitation Authority, upon debt or contract, and is not a defaulter, as surety or otherwise, upon any obligation to the Four Rivers Sanitation Authority.
7. No officer or employee or person whose salary is payable in whole or in part by the Four Rivers Sanitation Authority is, shall be or become interested, directly or indirectly as a contracting party, partner, stockholder, surety or otherwise, in this Proposal, or in the performance of the Contract, or in the work to which it relates, or in any portion of the profits thereof.
8. The Bidder which I represent complies with all applicable requirements of the Americans with Disabilities Act (ADA) and the Occupational Safety and Health Act (OSHA) and that if said bidder is awarded a contract, it will complete all OSHA-required or ADA-required employee and customer training, will make available all required information, and will hold harmless and indemnify the Four Rivers Sanitation Authority and the Four Rivers Sanitation Authority's representatives.  
  
In regard to participation in an approved Apprenticeship program, upon request, Contractor will be required to provide written proof of participation.
9. The undersigned, as Bidder, declares that he has adopted and promulgated written sexual harassment policies in accordance with Public Act 101-0221 and will make this information available upon request.
10. The undersigned, as Bidder, declares he will comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on public works projects (including Four Rivers Sanitation Authority) to submit certified payroll reports via the State's Certified Transcript of Payroll Portal found at [www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx](http://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx).
11. The undersigned, as Bidder, declares he will comply with the Federal Drug Free Workplace Act.
12. The undersigned, as Bidder, declares he will comply with Public Act 83-1030 entitled "Steel Products Procurement Act".



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<br>(In Writing) | Unit Price<br>(In Figures) | Total Price<br>(In Figures) |
|----------|----------|------|--------------------------|--|----------------------------|----------------------------|-----------------------------|
| 1        | 1        | LS   | Collection System Repair | North of Harrison Avenue Bridge on east side of the Rock River   |                            |                            |                             |
| 2        | 1        | LS   | Collection System Repair | South 4th Street from 22nd Avenue to 21st Avenue   |                            |                            |                             |
| 3        | 1        | LS   | Collection System Repair | Adjacent to 2603 Rose Avenue   |                            |                            |                             |
| 4        | 1        | LS   | Collection System Repair | Loomis Street from Sanford Street to Corbin Street   |                            |                            |                             |
| 5        | 1        | LS   | Collection System Repair | Welty Avenue from East State to Crosby Street  |                            |                            |                             |
| 6        | 1        | LS   | Collection System Repair | Berkely Street from Webster Avenue to Stewart Avenue   |                            |                            |                             |
| 7        | 1        | LS   | Collection System Repair | North Chicago Avenue from Harvard Avenue to Guilford Road  |                            |                            |                             |
| 8        | 1        | LS   | Collection System Repair | Lundvall Avenue from Hickory Lawn Drive to Guilford Road & Guilford Road from Parkview Avenue to Lundvall Avenue |                            |                            |                             |
| 9        | 1        | LS   | Collection System Repair | James Avenue from Rural Street to Hickory Lawn Drive   |                            |                            |                             |
| 10       | 1        | LS   | Collection System Repair | Cardinal Lane from Fairview Boulevard to Chelsea Avenue  |                            |                            |                             |
| 11       | 1        | LS   | Collection System Repair | North Central Avenue from West Jefferson Street to Andrews Street  |                            |                            |                             |
| 12       | 1        | LS   | Collection System Repair | Camp Avenue from Sherman Street to Logan Street  |                            |                            |                             |
| 13       | 1        | LS   | Collection System Repair | Huffman Blvd (median) from Auburn Street to Vernon Street  |                            |                            |                             |
| 14       | 1        | LS   | Collection System Repair | North Church Street from Custer Avenue to Brown Avenue   |                            |                            |                             |
| 15       | 1        | LS   | Collection System Repair | Windsor Road (outside EB lane) from Material Avenue to Clinton Road  |                            |                            |                             |

| Item No. | Quantity | Unit | Description              |   | Unit Price (In Writing) | Unit Price (In Figures) | Total Price (In Figures) |
|----------|----------|------|--------------------------|---|-------------------------|-------------------------|--------------------------|
| 16       | 1        | LS   | Collection System Repair | 28th Avenue from Forest View Road to Eastrock Drive             |                         |                         |                          |
| 17       | 1        | LS   | Collection System Repair | 26th Avenue from Forest View Road to Eastrock Drive             |                         |                         |                          |
| 18       | 1        | LS   | Collection System Repair | 4914 Forest View Avenue, Rockford                               |                         |                         |                          |
| 19       | 1        | LS   | Collection System Repair | Intersection of Charlotte Drive and Marion Avenue               |                         |                         |                          |
| 20       | 1        | LS   | Collection System Repair | Eastview Road from Starview Drive to David Drive                |                         |                         |                          |
| 21       | 1        | LS   | Collection System Repair | Gramercy Drive from Gramercy Court to South Cul De Sac          |                         |                         |                          |
| 22       | 1        | LS   | Collection System Repair | Jonquil Place from Plum Orchard Lane to Sweetbriar Lane         |                         |                         |                          |
| 23       | 1        | LS   | Collection System Repair | Blackthorn Drive from Honysuckle Drive to Shaw Woods Drive      |                         |                         |                          |
| 24       | 1        | LS   | Collection System Repair | Intersection of Northfield Avenue and Birch Street              |                         |                         |                          |
| 25       | 1        | LS   | Collection System Repair | Intersection of North Springfield and West State (off pavement) |                         |                         |                          |
| 26       | 1        | LS   | Collection System Repair | Rural Street from Hemlock Lane to Sunrise Lane                  |                         |                         |                          |
| 27       | 1        | LS   | Collection System Repair | Wood Road from Eastridge Drive to Crosby Street                 |                         |                         |                          |
| 28       | 1        | LS   | Collection System Repair | Intersection of Guilford Road and Sterling Drive                |                         |                         |                          |
| 29       | 1        | LS   | Collection System Repair | Old Orchard Road from Old Orchard Court to Starkweather Road    |                         |                         |                          |
| 30       | 1        | LS   | Collection System Repair | Bradley Road from Alt Vista Road to Alta Vista Road             |                         |                         |                          |
| 31       | 1        | LS   | Collection System Repair | Bradley Road from Highcrest Road to Boscobel Court              |                         |                         |                          |

| Item No.         | Quantity | Unit | Description               |  | Unit Price<br>(In Writing) | Unit Price<br>(In Figures) | Total Price<br>(In Figures) |
|------------------|----------|------|---------------------------|--|----------------------------|----------------------------|-----------------------------|
| 32               | 1        | LS   | Collection System Repair  | 7141 Harrison Avenue, Rockford                       |                            |                            |                             |
| 33               | 1        | LS   | Collection System Repair  | Sanford Street from Montague to Loomis Street        |                            |                            |                             |
| 34               | 1        | LS   | Collection System Repair  | Intersection of Kishwaukee Street and Oak Street     |                            |                            |                             |
| 35               | 1        | LS   | Collection System Repair  | East State Street From Paris Avenue to Rome Avenue   |                            |                            |                             |
| 36               | 1        | LS   | Collection System Repair  | East State Street From Robert Avenue to James Avenue |                            |                            |                             |
| 37               | 1        | LS   | Collection System Repair  | Woodlawn Avenue from Whitman Street to Bruce Street  |                            |                            |                             |
| 38               | 1        | LS   | Collection System Repair  | Intersection of Grace Street and Bruner Street       |                            |                            |                             |
| 39               | 1        | LS   | Collection System Repair  | Orion Street from Evans Avenue to Mars Avenue        |                            |                            |                             |
| 40               | 1        | LS   | Collection System Repair  | Tacoma Avenue from Vernon Street to Yonge Street     |                            |                            |                             |
| 41               | 1        | LS   | Collection System Repair  | Sanford Street from Kent Street to Blake Street      |                            |                            |                             |
| 42               | 2        | Acre | Clearing and Tree Removal |  |                            |                            |                             |
| 43               | 5        | CY   | Rock Excavation           |  |                            |                            |                             |
| 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: \_\_\_\_\_

Not to be used for bidding purposes

# Fair Employment Practices Affidavit of Compliance

PROJECT: 2022-2023 Collection System Repairs, Capital Project No. 2354

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 of understanding, a notice advising such labor organization or representative of the contractor's obligations under the Illinois Human Rights Act and the Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the contractor in his or her efforts to comply with such Act and Rules and Regulations, the contractor will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the contract.
5. That he or she will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Departments Rules and Regulations.
6. That he or she will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules and Regulations.
7. That he or she will include verbatim or by reference the provisions of this clause in every subcontract awarded under which any portion of the contract obligations are undertaken or assumed, so that the provisions will be binding upon the subcontractor. In the same manner as with other provisions of this contract, the contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply with the provisions. In addition, the contractor will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for 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 constructing Sanitary Sewers and Appurtenances.

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

NOW THEREFORE, The conditions of this obligation are such that if the Proposal be accepted, the Principal shall, within ten days after the date of receipt of a written notice of award of Contract, execute a Contract in accordance with the Proposal and upon the terms, conditions, and prices set forth therein, in the form and manner required by 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 \_\_\_\_\_, 2022, between the Four Rivers Sanitation Authority (FRSA), Rockford, Illinois, acting by and through the Board of Trustees, and \_\_\_\_\_, his/their executors, administrators, successors or assigns:

### 2. Scope of Work

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

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

### 3. Contract Price

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

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

### 4. Bond

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

### 5. Maintenance and Guarantee

The Contractor shall promptly repair, replace, restore or rebuild any imperfections that may arise and shall maintain satisfactory to FRSA all work for a period three years from the date of final acceptance of the Contract for trench settlement and for a period of two years all other work, except where periods of maintenance and guarantee are provided for. The Contractor shall, for this period, indemnify and save harmless the FRSA, its officers and agents from any injury done to property or persons as a direct or alleged result of 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://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>.

The Contractor is responsible for verifying current website.

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

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

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

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

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

- (a) the illegality of sexual harassment
- (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, 2022.

#### **11. Liquidated Damages**

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

#### **12. Counterparts**

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

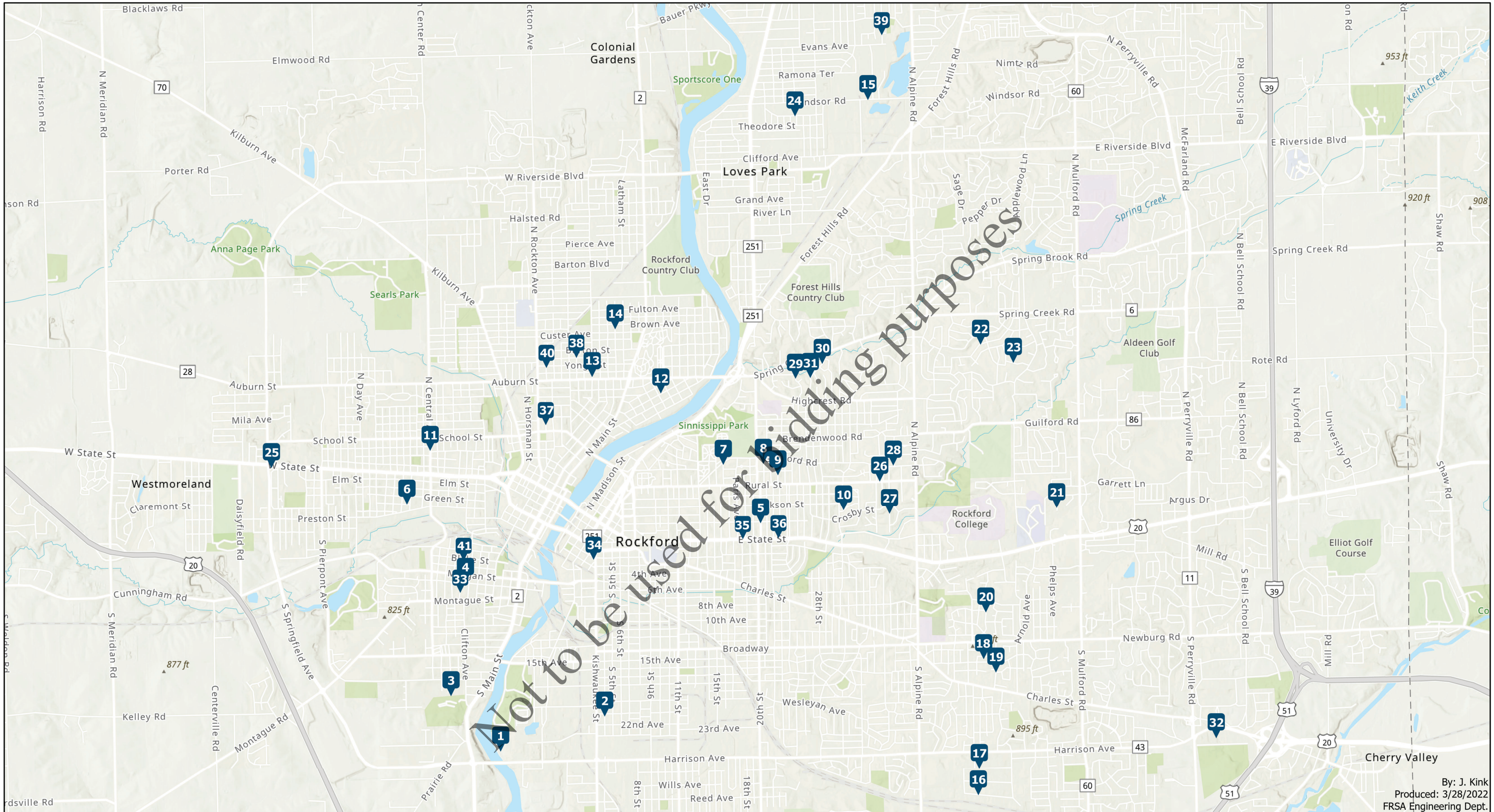
**Section III**

**Location Maps and  
Supporting Information**

**Four River Sanitation Authority**  
**2022-2023 Collection System Repairs, Capital Project 2354**  
**Summary of Planned Repairs; Location Map Reference**

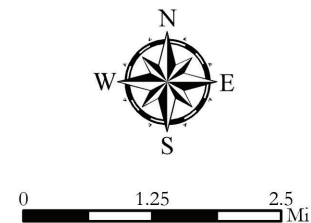
| Map No. / Bid Item | Jurisdiction                 | Location   | Description - See Maps for Additional Site Specific Work  | Estimated Depth (FT) |
|--------------------|------------------------------|--|---|----------------------|
| 1                  | Rockford Park District       | North of Harrison Ave. Bridge on east side of the Rock River   | Reconstruct MH 002-067; include grading and RR7 riprap installation.  | 4' (min.)            |
| 2                  | City of Rockford             | S. 4th St. from 22nd Ave. to 21st Ave.   | Reconstruct MH 002-068 w/ new cone and bolt-down frame & lid.   | 7.4' est.            |
| 3                  | Winn. County Forest Preserve | Adjacent to 2603 Rose Ave.   | Reconstruct MH 002-090 w/ new cone and bolt-down frame & lid.   | 11.62'               |
| 4                  | City of Rockford             | Loomis St. from Sanford St. to Corbin St.  | Reconstruct MH 009-001 w/ new cone and bolt-down frame & lid.   | 10.5' est.           |
| 5                  | City of Rockford             | Welty Ave. from E. State to Crosby St.   | Remove and replace 114'-123' and services to 2211 and 2214.   | 8.5-12.1'            |
| 6                  | City of Rockford             | Berkely St. from Webster ave. to Stewart Ave.  | Remove and replace 175'-242'. Replace Services to 912 and 913 Loomis St. including new wye connections and cleanouts.   | 8.6-9.6'             |
| 7                  | City of Rockford             | N. Chicago Ave. from Harvard Ave. to Guilford Rd.  | Remove and replace 121'-126' and 298'-301'; reconnect to existing MH 039-075  | 8' est.              |
| 8                  | City of Rockford             | Lundvall Ave. from Hickory Lawn Dr. to Guilford Rd. & Guilford Rd. from Parkview Ave. to Lundvall Ave. | Replace MH 050-007.   | 9-10' est.           |
| 9                  | City of Rockford             | James Ave. from Rural St. to Hickory Lawn Dr.  | Remove and replace 234'-299', reconnect 2009 Berkely with a new wye connection.   | 10-11'               |
| 10                 | City of Rockford             | Cardinal Ln. from Fairview Blvd. to Chelsea Ave.   | Remove and replace 95'-115'. Replace service to 915 Chicago Ave. including a new wye and cleanout.  | 8'                   |
| 11                 | City of Rockford             | N. Central Ave. from W. Jefferson St. to Andrews St.   | Remove and replace 185'-212'. Reconnect service to 2318 Guilford Rd. with a new wye connection.   | 9.9'                 |
| 12                 | City of Rockford             | Camp Ave. from Sherman St. to Logan St.  | Remove and replace 125'-153' and 205'-227'. Replace services to 832 and 833 Lundvall Ave. including new wye connections and cleanouts.  | 9-10.1'              |
| 13                 | City of Rockford             | Huffman Blvd (median) from Auburn St. to Vernon St.  | Remove and replace 18'-24', 68'-74' and 161'-168'   | 10.5-10.9'           |
| 14                 | City of Rockford             | N. Church St. from Custer Ave. to Brown Ave.   | Remove and replace 17'-22', 87'-92', and 181'-197'  | 8.8-9.8'             |
| 15                 | Loves Park                   | Windsor Road (outside EB lane) from Material Ave. to Clinton Rd.                                       | Remove and replace 243'-250.4' reconnect to existing MH 052-107.  | 7.5-8.5'             |
| 16                 | City of Rockford             | 28th Ave. from Forest View Rd. to Eastrock Dr.   | Remove and replace 209'-220.3'. Replace service to 403 N. Central including a new wye connection and cleanout.  | 12-15'               |
| 17                 | City of Rockford             | 26th Ave. from Forest View Rd. to Eastrock Dr.   | Remove and replace 327'-358'. Replace service to 1611 Camp Ave. including new wye connection and cleanout.  | 10.7'                |
| 18                 | N/A Easement                 | 4914 Forest View Ave., Rockford  | Remove and replace 270'-295'. Reconnect 1723 Auburn with a new saddle tee.  | 9'                   |
| 19                 | City of Rockford             | Intersection of Charlotte Dr. and Marion Ave.  | Remove and replace 235'-243'. Replace services to 2109 and 2110 Church St. including new wye connections and cleanouts. Reconnect service to 2119 Church St. with new wye connection. | 14.11'               |
| 20                 | City of Rockford             | Eastview Rd. from Starview Dr. to David Drive  | Remove and replace 146'-149' and 171'-174'.<br>Remove and replace 242'-258'   | 11.5'                |
| 21                 | City of Rockford             | Gramercy Dr. from Gramercy Ct. to South side sac.  | Remove and replace 106'-111' and 248'-257'. Reconnect service to 5055 28th Ave. with new wye connection.  | 7.5-8.5'             |
| 22                 | City of Rockford             | Jonquil Pl. from Plum Orchard Ln. to Sweetbriar Ln.  | Remove and replace 349'-399.9' and MH 104-028   | 11-14'               |
| 23                 | City of Rockford             | Blackthorn Dr. from Honyuckle Dr. to Shaw Woods Dr.  | Remove and replace 200'-223'; connect to existing MH 107-036  | 8-10'                |
| 24                 | City of Rockford             | Intersection of Northfield Ave. and Birch St.  | Remove and replace 220'-230.4'; Remove and replace MH 107-054   | 6.5'                 |
| 25                 | IDOT                         | Intersection of N. Springfield and W. State (off pavement)   | Remove and replace 125'-130'; connect to existing MH 108046   | 7'                   |
| 26                 | City of Rockford             | Rural St. from Hemlock Ln. to Sunrise Ln.  | Remove and replace 146'-160.2'; connect to existing MH 110-044  | 11' est.             |
| 27                 | City of Rockford             | Wood Road from Eastridge Dr. to Crosby St.   | Reconstruct manhole 110-050 including new invert, frame and lid.  | 8.5-12'              |
| 28                 | City of Rockford             | Intersection of Guilford Rd. and Sterling Dr.  | Remove and replace 142'-146' and 207'-210'  | 10.5'                |
| 29                 | City of Rockford             | Old Orchard Rd. from Old Orchard Ct. to Starkweather Rd.   | Remove and replace 45'-47' and 353'-359.9'; connect to existing MH 117-036  | 9-10.8'              |
| 30                 | City of Rockford             | Bradley Rd. from Alt Vista Rd. to Alta Vista Rd.   | Remove and replace 90'-109.3'. Connect to existing MH 117-114 and include tee for drop connection   | 8.43'                |
| 31                 | City of Rockford             | Bradley Rd. from Highcrest Rd. to Boscobel Ct.   | Remove and replace 91'-96.2'; replace existing MH 122-018   | 11-11.35'            |
| 32                 | N/A Easement                 | 7141 Harrison Ave., Rockford   | Remove and replace 310'-318.9'; connect to existing MH 126-097  | 15.3'                |
| 33                 | City of Rockford             | Sanford St. from Montague to Loomis St.  | Remove and replace 90'-120' and 264'-268'. Replace service to 3920 Rural St. including new wye connection and cleanout  | 4' est.              |
| 34                 | IDOT                         | Intersection of Kishwaukee St. and Oak St.   | Remove and replace 0'-4'; connect to existing MH 133-057  | 6.26'                |
| 35                 | IDOT                         | E. State Street From Paris Ave. to Rome Ave.   | Remove and replace 50'-81' and 140'-243.1' connecting to existing PVC.  | 6.73-12.9'           |
| 36                 | IDOT                         | E. State Street From Robert Ave. to James Ave.   | Replace service to 411 Wood Rd. including a new wye connection and cleanout   | 10.84'               |
| 37                 | City of Rockford             | Woodlawn Ave. from Whitman St. to Bruce St.  | Reconstruct MH 030-035  | 4' est.              |
| 38                 | City of Rockford             | Intersection of Grace St. and Bruner St.   | Replace MH 035-027  | 9.7'                 |
| 39                 | Loves Park                   | Orion St. from Evans Ave. to Mars Ave.   | Replace Manholes 039-048 and 039-050  | 9.5'                 |
| 40                 | City of Rockford             | Tacoma Ave. from Vernon St. to Yonge St.   | Reconnect services to 7425 and 7426 Orion St.   | 7.5-8'               |
| 41                 | City of Rockford             | Sanford St. from Kent St. to Blake St.   | Reconnect service to 1620 Tacoma Ave.   | 9-10'                |





# Collection Systems Repairs

## 2022-2023 Locations



By: J. Kink  
Produced: 3/28/2022  
FRSA Engineering Dept.





**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.

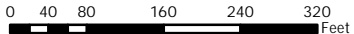
**Roadway Authority:** N/A

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor must notify the Rockford Park District 48HRS in advance of any work. Contact Tim Bragg @ 815.987.8865, timbragg@rockfordparkdistrict.org.
2. All clearing and tree removal shall be paid a the contract unit price per Acre. Contractor shall mark any trees planned for removal over 6" in diameter and obtain Park District and FRSA approval prior to removal. Chips from clearing and grubbing work may remain onsite provided they are spread to a depth of no more than 4" thick. 1.25 Acres of clearing and grubbing is estimated.
3. Manhole reconstruction shall conform the the standard details provided in Section IV with the addition that the manhole frame shall be securely anchored to the pre-cast cone section. Anchors shall be stainless steel. See attached manhole inspections for required depth of reconstruction.
4. Work at 002-067 shall include 12" pipe abandonment; see attached record drawing.

*Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price PLUS CLEARING & TREE REMOVAL PRICE/ACRE*

**Capital Project #2354 - Map 1**





## MANHOLE INSPECTION FORM

|                        |                            |                      |
|------------------------|----------------------------|----------------------|
| <b>MH ID#:</b> 002-067 | <b>INSPECTOR:</b> JS/CN/PJ | <b>DATE:</b> 3-15-22 |
|------------------------|----------------------------|----------------------|

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

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

|                                  |                            |                                   |                               |                                |                               |                                  |                               |
|----------------------------------|----------------------------|-----------------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>         |                            |                                   |                               | <b>CONE:</b>                   |                               | <b>WALL:</b>                     |                               |
| TYPE:                            | QTY:                       | SIZE:                             | CONDITION:                    | TYPE:                          | CONDITION:                    | TYPE:                            | CONDITION:                    |
| BRICK <input type="checkbox"/>   | 3 <input type="checkbox"/> | ROWS <input type="checkbox"/>     | FAIR <input type="checkbox"/> | BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> | PRECAST <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | FLAT TOP <input type="checkbox"/> | GOOD <input type="checkbox"/> |                                |                               |                                  |                               |

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 714.04 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                             |                              |                               |
|-----------------------|-----------------------------|------------------------------|-------------------------------|
| <b>INFLOW:</b>        |                             |                              |                               |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                 | <b>MTRL:</b>                  |
| 002-068               | NV <input type="checkbox"/> | 72" <input type="checkbox"/> | RCP <input type="checkbox"/>  |
| DEPTH HIGH:           |                             | ELEV:                        | DEPTH LOW: 30.10 ELEV: 683.94 |
| DEPTH HIGH:           |                             | ELEV:                        | DEPTH LOW: ELEV:              |
| DEPTH HIGH:           |                             | ELEV:                        | DEPTH LOW: ELEV:              |

|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

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

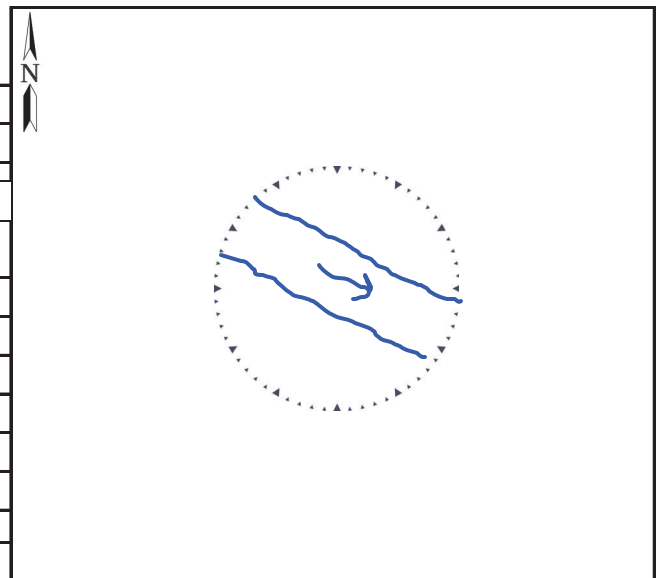
|                        |                             |                              |                              |
|------------------------|-----------------------------|------------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                             |                              |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                 | <b>MTRL:</b>                 |
| 002-066                | SE <input type="checkbox"/> | 72" <input type="checkbox"/> | RCP <input type="checkbox"/> |
| DEPTH: 30.20           |                             | ELEV: 683.84                 |                              |
| DEPTH:                 |                             | ELEV:                        |                              |

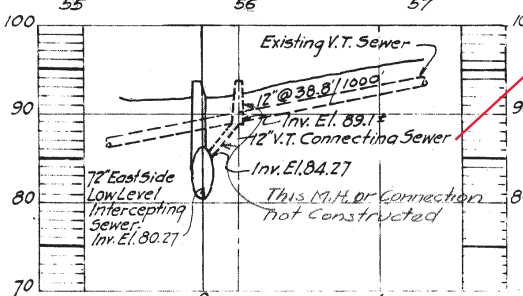
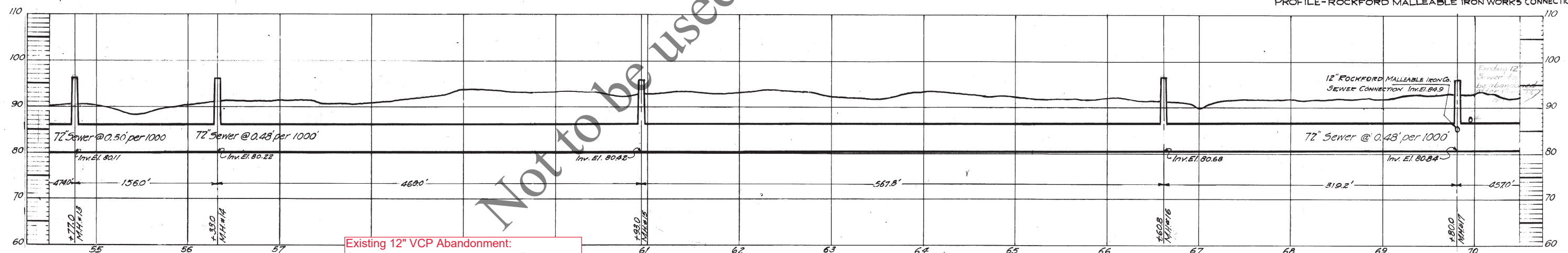
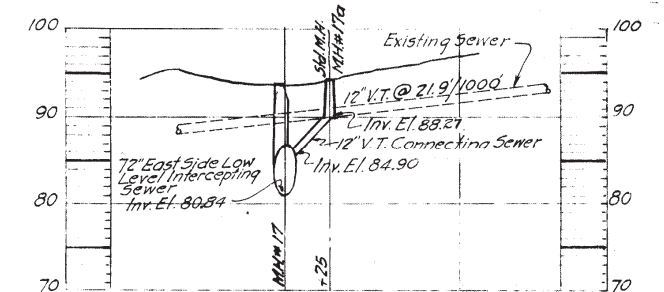
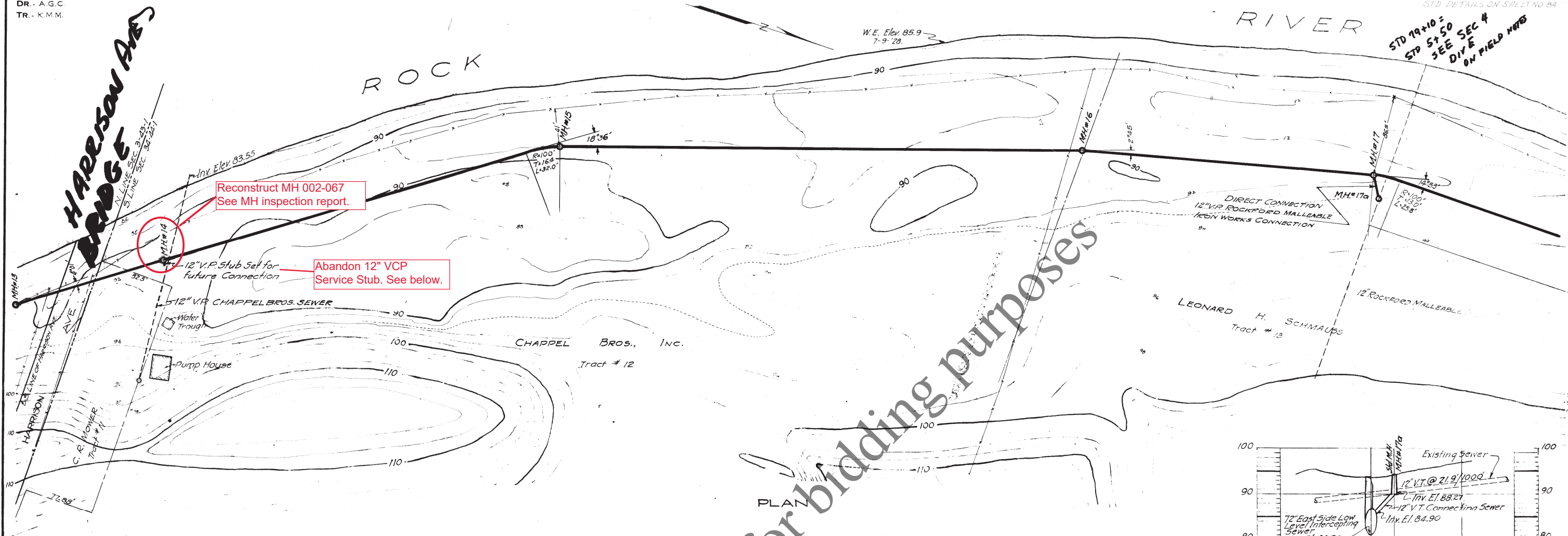
|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** BARREL SECTIONS ARE PITTED

Remove and dispose of ex. flat-top and first barrel section, frame and lid. Install a new precast cone section and bolt down frame and lid. Work shall conform to the FRSA Standard Detail Sheet.

See attached record drawing for 12" abandonment.





Existing 12" VCP Abandonment:  
Contractor shall cut existing 12" VCP and install a mechanical plug 6" into existing pipe followed by a concrete bulkhead prior to backfilling. Estimated depth of excavation is 18'.  
  
Mechanical plug shall be as manufactured by Chern Industries or FRSA approved equivalent.

THE SANITARY DISTRICT OF ROCKFORD  
INTERCEPTING SEWER SYSTEM  
DIVISION E  
EAST SIDE LOW LEVEL INTERCEPTING SEWER  
SECTION BELOW LANE ST. RIVER CROSSING  
**PLAN & PROFILE**  
FROM STA. 55+00 TO STA. 70+00  
**RECORD PLANS**

REVISION DATES

SCALES: HORIZ. 1" = 50'-0", VERT. 1" = 10'-0" AUGUST 1931

PEARSE, GREELEY & HANSEN  
HYDRAULIC & SANITARY ENGINEERS  
6 NORTH MICHIGAN AVENUE  
CHICAGO, ILL.

PROFILE - CHAPPEL BROS. CONNECTION

11-34-413 E. RIVER

DB-2+9

10 SHEETS

No. 5

577

## MANHOLE INSPECTION FORM

|                        |                            |                      |
|------------------------|----------------------------|----------------------|
| <b>MH ID#:</b> 002-068 | <b>INSPECTOR:</b> JS/CN/PJ | <b>DATE:</b> 3-15-22 |
|------------------------|----------------------------|----------------------|

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

|                                      |                                   |                                    |                             |       |                                    |                               |
|--------------------------------------|-----------------------------------|------------------------------------|-----------------------------|-------|------------------------------------|-------------------------------|
| <b>LID/COVER:</b>                    |                                   |                                    |                             |       | <b>FRAME:</b>                      |                               |
| LOCKING:                             | STAMP:                            | LID:                               | GASKET:                     | MISC: | TYPE:                              | CONDITION:                    |
| NON LOCKING <input type="checkbox"/> | NO STAMP <input type="checkbox"/> | OPEN PICK <input type="checkbox"/> | NO <input type="checkbox"/> |       | CAST IRON <input type="checkbox"/> | FAIR <input type="checkbox"/> |

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

|                               |                          |                               |                               |                               |                               |
|-------------------------------|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>BENCH:</b>                 |                          | <b>INFILTRATION:</b>          |                               |                               |                               |
| TYPE:                         | SIZE:                    | ADJ:                          | CONE:                         | WALL:                         | BENCH:                        |
| NONE <input type="checkbox"/> | <input type="checkbox"/> | HIGH <input type="checkbox"/> | HIGH <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> |

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 698.72 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                              |                               |
|-----------------------|----------------------------|------------------------------|-------------------------------|
| <b>INFLOW:</b>        |                            |                              |                               |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                 | <b>MTRL:</b>                  |
| 009-001               | N <input type="checkbox"/> | 72" <input type="checkbox"/> | RCP <input type="checkbox"/>  |
| DEPTH HIGH:           |                            | ELEV:                        | DEPTH LOW: 15.17 ELEV: 683.55 |
| DEPTH HIGH:           |                            | ELEV:                        | DEPTH LOW: ELEV:              |
| DEPTH HIGH:           |                            | ELEV:                        | DEPTH LOW: ELEV:              |

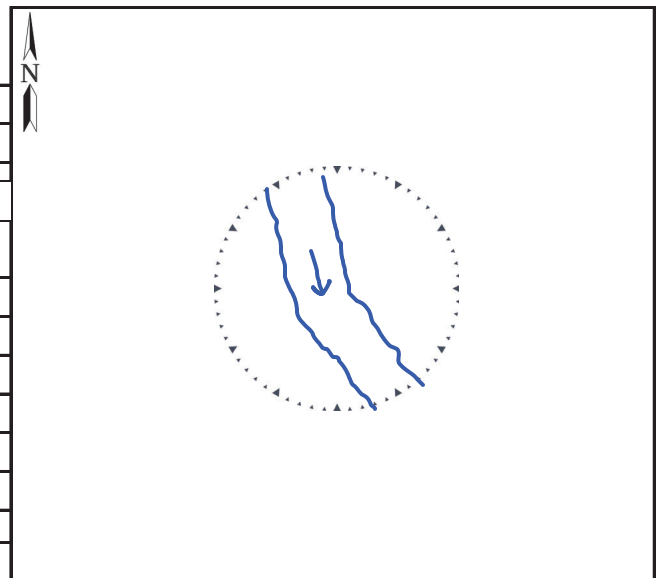
|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

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

|                        |                             |                              |                              |
|------------------------|-----------------------------|------------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                             |                              |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                 | <b>MTRL:</b>                 |
| 022-067                | SE <input type="checkbox"/> | 72" <input type="checkbox"/> | RCP <input type="checkbox"/> |
| DEPTH: 15.11           |                             | ELEV: 683.61                 |                              |
| DEPTH:                 |                             | ELEV:                        |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** +/- 4" OF GRIT IN INVERT  
BRICK CONE IS DESTROYED - NEEDS REPLACED ASAP  
**Remove and dispose of existing structure to depth 4' below grade, minimum. Reconstruction shall conform to the Standard Details provided in Section IV, with the addition that the frame shall be anchored securely to the new pre-cast cone section.**





## MANHOLE INSPECTION FORM

|                        |                            |                      |
|------------------------|----------------------------|----------------------|
| <b>MH ID#:</b> 002-090 | <b>INSPECTOR:</b> JS/CN/PJ | <b>DATE:</b> 3-15-22 |
|------------------------|----------------------------|----------------------|

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

|                                      |                                |                                    |                             |       |                                    |                               |
|--------------------------------------|--------------------------------|------------------------------------|-----------------------------|-------|------------------------------------|-------------------------------|
| <b>LID/COVER:</b>                    |                                |                                    |                             |       | <b>FRAME:</b>                      |                               |
| LOCKING:                             | STAMP:                         | LID:                               | GASKET:                     | MISC: | TYPE:                              | CONDITION:                    |
| NON LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | BOLT DOWN <input type="checkbox"/> | NO <input type="checkbox"/> |       | CAST IRON <input type="checkbox"/> | POOR <input type="checkbox"/> |

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

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

|                                  |   |  |
|----------------------------------|---|--|
| <b>GPS RIM ELEVATION:</b> 702.37 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> YES <input type="checkbox"/> |
|----------------------------------|---|--|

|                       |             |              |                               |
|-----------------------|-------------|--------------|-------------------------------|
| <b>INFLOW:</b>        |             |              |                               |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b>                  |
| 009-118               | NW          | 72"          | RCP                           |
| DEPTH HIGH:           |             | ELEV:        | DEPTH LOW: 19.00 ELEV: 683.37 |
| DEPTH HIGH:           |             | ELEV:        | DEPTH LOW: ELEV:              |
| DEPTH HIGH:           |             | ELEV:        | DEPTH LOW: ELEV:              |

|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

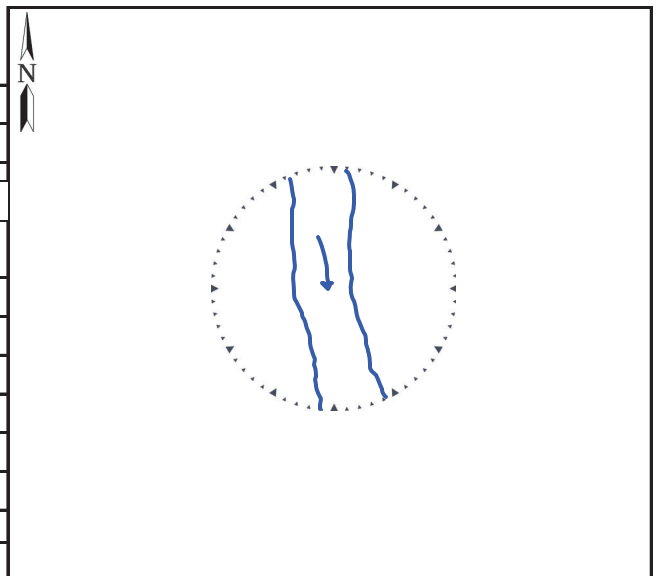
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |             |              |              |
|------------------------|-------------|--------------|--------------|
| <b>OUT FLOW:</b>       |             |              |              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 002-085                | SE          | 72"          | RCP          |
| DEPTH: 19.38           |             | ELEV: 682.99 |              |
| DEPTH:                 |             | ELEV:        |              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** FRAME IS NOT ATTACHED TO CONE - NEEDS TO BE REPLACED!  
NO BOLTS

Remove and replace of existing cone section frame and lid. Reconstruct conforming to standard details provided in Section IV with the addition that the new frame is anchored securely to the new pre-cast cone section.



## MANHOLE INSPECTION FORM

|                        |                            |                      |
|------------------------|----------------------------|----------------------|
| <b>MH ID#:</b> 009-001 | <b>INSPECTOR:</b> JS/CN/PJ | <b>DATE:</b> 3-15-22 |
|------------------------|----------------------------|----------------------|

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

|                                      |                                   |                                    |                             |       |                                    |                               |
|--------------------------------------|-----------------------------------|------------------------------------|-----------------------------|-------|------------------------------------|-------------------------------|
| <b>LID/COVER:</b>                    |                                   |                                    |                             |       | <b>FRAME:</b>                      |                               |
| LOCKING:                             | STAMP:                            | LID:                               | GASKET:                     | MISC: | TYPE:                              | CONDITION:                    |
| NON LOCKING <input type="checkbox"/> | NO STAMP <input type="checkbox"/> | OPEN PICK <input type="checkbox"/> | NO <input type="checkbox"/> |       | CAST IRON <input type="checkbox"/> | POOR <input type="checkbox"/> |

|                          |                          |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>ADJUSTMENT RINGS:</b> |                          |                          |                          | <b>CONE:</b>             |                          | <b>WALL:</b>             |                          |
| TYPE:                    | QTY:                     | SIZE:                    | CONDITION:               | TYPE:                    | CONDITION:               | TYPE:                    | CONDITION:               |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                          |                          |                          |                          |                          |                          |                          |                          |

|                          |                          |                          |                          |                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>BENCH:</b>            |                          | <b>INFILTRATION:</b>     |                          |                          |                          | <b>STEPS:</b>            |                          |
| TYPE:                    | SIZE:                    | ADJ:                     | CONE:                    | WALL:                    | BENCH:                   | TYPE:                    | CONDITION:               |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                          |                          |                          |                          |                          |                          |                          |                          |

|                                  |  |  |
|----------------------------------|--|--|
| <b>GPS RIM ELEVATION:</b> 699.26 | <b>MH DIAMETER:</b> <input type="checkbox"/> | <b>SURCHARGE:</b> <input type="checkbox"/> |
|----------------------------------|--|--|

|                       |             |              |              |
|-----------------------|-------------|--------------|--------------|
| <b>INFLOW:</b>        |             |              |              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 009-002               | NW          | 72"          | RCP          |
| DEPTH HIGH:           | ELEV:       | DEPTH LOW:   | ELEV:        |
| DEPTH HIGH:           | ELEV:       | DEPTH LOW:   | ELEV:        |
| DEPTH HIGH:           | ELEV:       | DEPTH LOW:   | ELEV:        |

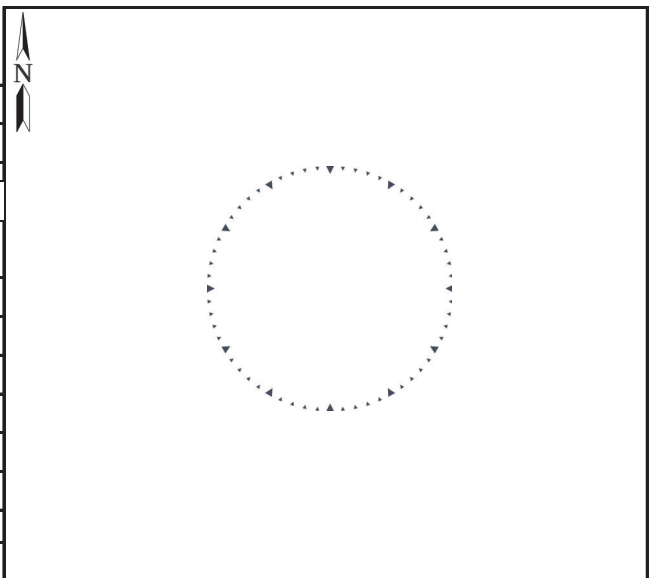
|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

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

|                        |             |              |              |
|------------------------|-------------|--------------|--------------|
| <b>OUT FLOW:</b>       |             |              |              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 002-068                | SE          | 72"          | RCP          |
| DEPTH:                 | ELEV:       | DEPTH:       | ELEV:        |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** MH IS UNSAFE TO CARRY OUT AN INSPECTION!  
CONE IS CRACKED & BROKEN ALL AROUND - NEEDS REPLACED ASAP  
FRAME & LID NEEDS REPLACED  
**Remove and dispose of existing structure to a depth 4' below grade, minimum. Reconstruct in conformance with standard details provided in Section IV with the addition that the new frame is anchored securely to the new pre-cast cone section.**







**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.

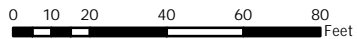
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor may sleeve new 4" diameter PVC service pipe through existing 6" diameter VCP service pipe as conditions allow.
2. 55 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
3. 64 SF of PCC sidewalk removal and replacement is estimated. The minimum sidewalk thickness is 4.0"
4. 16' of PCC curb and gutter removal and replacement is estimated.

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

**Capital Project #2354 - Map 2**





**Report Date** Monday, January 3, 2022 **Group Inspection #** 22602 **Page** 1

**Inspection #** 86129 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 010096 **To ID** SMH 010095A **Length** 237.50  
**Address** S 4TH ST  
ROCKFORD IL  
**Location** @ 21ST AV

**Started** Tuesday, June 25, 2019 **Weather** 1 **Reverse Setup** ☐  
**Completed** Tuesday, June 25, 2019 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 010

**Survey Length** 237.50 **Survey Diam** 9.00 **UP Depth** 7.40 **DWN Depth** 6.50 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>  | <u>Severity</u> |
|--------------|-------------|-----------------|--|-----------------|
| B            | 0.00        | -               | Manhole  | 0               |
|              |             |                 | District crews installed new 4" diameter manhole on 5/30/19 - 010096 |                 |
| B            | 0.00        | -               | Water Level  | 0               |
| B            | 1.50        | -               | Material Change  | 0               |
|              |             |                 | PVC  |                 |
| B            | 4.00        | -               | Material Change  | 0               |
|              |             |                 | VCP  |                 |
| B            | 5.20        | 9 - 3           | Roots Fine Joint   | 1               |
| B            | 8.00        | 9 - 3           | Roots Fine Joint   | 1               |
| B            | 10.80       | 8 - 9           | Roots Fine Joint   | 1               |
| B            | 12.90       | 11 -            | Roots Fine Joint   | 1               |
| B            | 15.40       | 9 - 3           | Roots Fine Joint   | 1               |
| B            | 17.90       | 3 -             | Roots Fine Joint   | 1               |
| B            | 21.00       | 8 - 4           | Roots Fine Joint   | 1               |
| B            | 22.90       | 8 - 4           | Roots Fine Joint   | 1               |
| B            | 30.60       | 8 -             | Roots Fine Joint   | 1               |

**Report Date** Monday, January 3, 2022 **Group Inspection #** 22602 **Page** 2

|   |        |         |   |   |
|---|--------|---------|---|---|
| B | 33.40  | 9 -     | Roots Fine Joint                            | 1 |
| B | 36.20  | 12 - 12 | Roots Fine Joint                            | 1 |
| B | 37.40  | 3 -     | Tap; factory made active<br>VCP HEAVY ROOTS | 0 |
| B | 38.80  | 12 -    | Roots Fine Joint                            | 1 |
| B | 38.90  | 8 - 10  | Crack Circumferential                       | 1 |
| B | 40.10  | 9 -     | Tap; factory made active<br>VCP LIGHT ROOTS | 0 |
| B | 41.10  | 9 - 3   | Roots Fine Joint                            | 1 |
| B | 44.00  | 2 -     | Roots Fine Joint                            | 1 |
| B | 61.90  | 1 - 4   | Crack Circumferential                       | 1 |
| B | 64.50  | 1 -     | Crack Longitudinal                          | 2 |
| B | 81.90  | 1 - 2   | Crack Circumferential                       | 1 |
| B | 83.80  | 3 -     | Tap Break-in Active<br>VCP                  | 0 |
| B | 83.90  | 7 - 5   | Crack Circumferential                       | 1 |
| B | 86.40  | 1 - 6   | Crack Circumferential                       | 1 |
| B | 88.30  | 3 -     | Capped factory made tap<br>VCP              | 0 |
| B | 90.80  | 9 -     | Capped factory made tap<br>VCP              | 0 |
| B | 91.50  | 9 - 3   | Crack Circumferential                       | 1 |
| B | 101.90 | 12 - 6  | Crack Circumferential                       | 1 |
| B | 107.10 | 2 - 5   | Crack Circumferential                       | 1 |
| B | 109.70 | 9 - 3   | Crack Circumferential                       | 1 |
| B | 112.20 | 9 - 10  | Crack Circumferential                       | 1 |
| B | 117.70 | 3 - 6   | Broken Soil Visible                         | 5 |
| B | 117.80 | 3 -     | Tap Break-in Active<br>VCP                  | 0 |

Rem./Replace 114'-123'  
and services to 2211 and  
2214 (serves part of 800  
block of 21st Ave.)

**Report Date** Monday, January 3, 2022

**Group Inspection #**

22602

**Page**

3

|   |        |        |   |   |
|---|--------|--------|---|---|
| B | 120.60 | 10 -   | Tap Break-in Active<br>VCP                  | 0 |
| B | 122.00 | 12 - 5 | Crack Circumferential                       | 1 |
| B | 124.60 | 9 - 6  | Crack Circumferential                       | 1 |
| B | 129.70 | 1 - 5  | Crack Circumferential                       | 1 |
| B | 135.80 | 7 - 11 | Crack Circumferential                       | 1 |
| B | 139.00 | 3 -    | Capped factory made tap<br>VCP MEDIUM ROOTS | 0 |
| B | 141.60 | 9 -    | Capped factory made tap<br>VCP              | 0 |
| B | 150.20 | 6 - 12 | Crack Circumferential                       | 1 |
| B | 155.30 | 7 - 11 | Crack Circumferential                       | 1 |
| B | 160.90 | 4 -    | Roots Fine Joint                            | 1 |
| B | 183.80 | 9 - 3  | Crack Spiral                                | 2 |
| B | 189.90 | 3 -    | Capped factory made tap<br>VCP              | 0 |
| B | 192.30 | 9 -    | Capped factory made tap<br>VCP              | 0 |
| B | 198.70 | 9 -    | Roots Fine Joint                            | 1 |
| B | 201.10 | 9 - 3  | Roots Fine Joint                            | 1 |
| B | 203.40 | 3 -    | Roots Fine Joint                            | 1 |
| B | 215.20 | 3 -    | Tap Break-in Intruding<br>VCP               | 2 |
| B | 220.30 | 9 -    | Tap Break-in Active<br>VCP                  | 0 |
| B | 235.90 | 3 -    | Capped factory made tap<br>VCP              | 0 |
| B | 237.50 | -      | Manhole<br>010095A                          | 0 |

Rem./Replace 114'-123'  
and services to 2211 and  
2214 (serves part of 800  
block of 21st Ave.)

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.

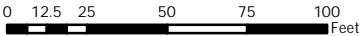
**Roadway Authority:** N/A

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall access work area from the Lathrop Elementary School Parking Lot. Contact RPS 205 Maintenance Manager Leo Waskiewicz @ 815.490.4133 ext. 74016 to coordinate access with school operations.
2. Coordinate gate access with FRSA Inspector.

*Quantities provided are estimates only. Payment will be based upon the Contract Lump Sum bid unit price PLUS CLEARING & TREE REMOVAL PRICE/ACRE.*

**Capital Project #2354 - Map 3**





**Report Date** Tuesday, March 15, 2022 **Group Inspection #** 20102 **Page** 1

**Inspection #** 80566 **Activity** TVINSP - Main TV Inspection  
**From ID** SMH 014119 **To ID** SMH 014055 **Length** 260.90  
**Address** 2426 ROSE AVE  
ROCKFORD IL  
**Location**

**Started** Tuesday, August 21, 2018 **Weather** CLOUDY +76 **Reverse Setup** ☐  
**Completed** Tuesday, August 21, 2018 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 014

**Survey Length** 260.90 **Survey Diam** 8.00 **UP Depth** 9.80 **DWN Depth** 11.60 **Pipe Type** PVC

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>              | <u>Severity</u>              |
|--------------|-------------|-----------------|--|------------------------------|
| B            | 0.00        | -               | MANHOLE  | UPSTREAM MANHOLE             |
| B            | 35.70       | 3 -             | LATERAL<br>PVC, SERVICE NOT IN USE             | FACTORY SERVICE - RIGHT      |
| B            | 49.90       | 9 -             | LATERAL<br>PVC                                 | FACTORY SERVICE - LEFT       |
| B            | 253.40      | -               | STRUCTURAL                                     | PIPE MATERIAL CHANGES TO VCP |
| B            | 254.10      | 3 -             | LATERAL<br>VCP, HEAVY ROOTS SERVICE NOT IN USE | FACTORY SERVICE - RIGHT      |
| B            | 255.50      | -               | ROOTS  | ROOTS-MEDIUM                 |
| B            | 257.50      | 6 -             | OTHER<br>VCP, MEDIUM ROOTS                     | DROP                         |
| B            | 260.90      | -               | MANHOLE  | DOWNSTREAM MANHOLE           |

Rem./Replace 253'-260.9' and  
MH 014-055 w/ a new 5'  
diameter drop MH.  
Reconnect service to 2603  
Rose Ave.



## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 014-055 | <b>INSPECTOR:</b> CB/PJ | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

|                            |                    |
|----------------------------|--------------------|
| <b>SURFACE COVER:</b> TURF | <b>PONDING:</b> NO |
|----------------------------|--------------------|

|                   |        |                |         |       |               |            |
|-------------------|--------|----------------|---------|-------|---------------|------------|
| <b>LID/COVER:</b> |        |                |         |       | <b>FRAME:</b> |            |
| LOCKING:          | STAMP: | LID:           | GASKET: | MISC: | TYPE:         | CONDITION: |
| SELF LOCKING      | STAMP  | CONCEALED PICK | YES     |       | CAST IRON     | FAIR       |

|                          |      |       |            |              |            |              |            |
|--------------------------|------|-------|------------|--------------|------------|--------------|------------|
| <b>ADJUSTMENT RINGS:</b> |      |       |            | <b>CONE:</b> |            | <b>WALL:</b> |            |
| TYPE:                    | QTY: | SIZE: | CONDITION: | TYPE:        | CONDITION: | TYPE:        | CONDITION: |
| BRICK                    | 1    | ROW   | FAIR       | BRICK        | POOR       | BLOCK        | POOR       |
|                          |      |       |            |              |            |              |            |

|               |       |                      |       |       |        |                    |            |
|---------------|-------|----------------------|-------|-------|--------|--------------------|------------|
| <b>BENCH:</b> |       | <b>INFILTRATION:</b> |       |       |        | <b>STEPS:</b>      |            |
| TYPE:         | SIZE: | ADJ:                 | CONE: | WALL: | BENCH: | TYPE:              | CONDITION: |
| CONCRETE      | 1/2   | NONE                 | LOW   | LOW   | LOW    | CAST IRON          | FAIR       |
|               |       |                      |       |       |        | 1ST<30" FROM RIM:  | YES        |
|               |       |                      |       |       |        | LAST<24" TO BENCH: | YES        |

|                                  |                        |                      |
|----------------------------------|------------------------|----------------------|
| <b>GPS RIM ELEVATION:</b> 707.34 | <b>MH DIAMETER:</b> 5' | <b>SURCHARGE:</b> NO |
|----------------------------------|------------------------|----------------------|

|                       |             |              |              |
|-----------------------|-------------|--------------|--------------|
| <b>INFLOW:</b>        |             |              |              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 014-056               | W           | 12"          | VCP          |
| 014-119               | N           | 8"           | VCP          |
|                       |             |              |              |

|             |        |            |        |
|-------------|--------|------------|--------|
| DEPTH HIGH: | ELEV:  | DEPTH LOW: | ELEV:  |
| 8.75        | 698.59 | 11.02      | 706.32 |
|             |        |            |        |

|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

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

|                        |             |              |              |
|------------------------|-------------|--------------|--------------|
| <b>OUT FLOW:</b>       |             |              |              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 014-054                | E           | 15"          | VCP          |
|                        |             |              |              |

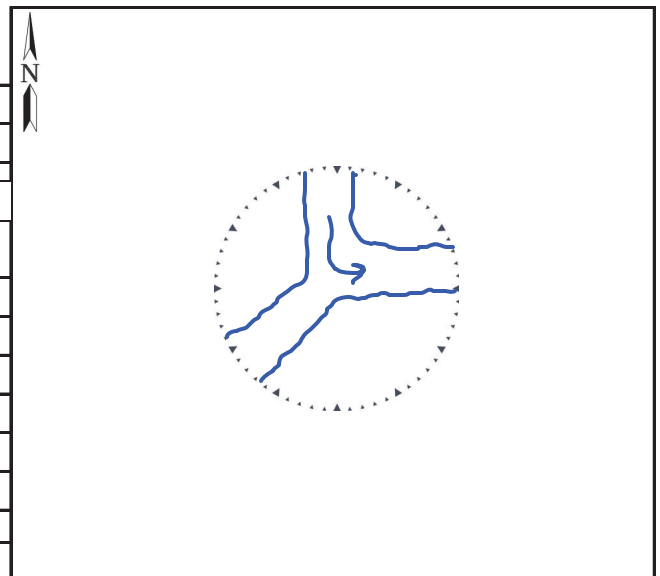
|        |        |
|--------|--------|
| DEPTH: | ELEV:  |
| 11.62  | 705.72 |
|        |        |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** LIGHT ROOTS IN CONE BRICKS, INFILTRATION COMING IN THROUGH MORTARED JOINTS OF BLOCKS, INFILTRATION COMING IN FROM ABANDONED VCP 3:00, NO BOLTS IN LID, LIGHT DEBRIS ON SOUTH BENCH

ACCESS THROUGH LATHROP SCHOOL PARKING LOT

**Remove & Replace with a 5' diameter inside drop MH conforming to standard details provided in Section IV.**







#### 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.

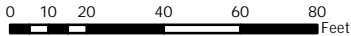
**Roadway Authority:** City of Rockford

#### Site Specific Considerations and Estimated Incidental Work Items:

1. Contractor may sleeve new 4" diameter PVC service pipe through existing 6" diameter VCP service pipe as conditions allow.
2. 124 SY of pavement remove and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
3. 64 SF of PCC sidewalk removal and replacement is estimated. Minimum sidewalk thickness is 4".
4. 16' of PCC curb and gutter removal and replacement is estimated.

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

#### Capital Project #2354 - Map 4





**Report Date** Monday, January 3, 2022 **Group Inspection #** 28983 **Page** 1

**Inspection #** 96731 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 032053 **To ID** SMH 032052 **Length** 392.80  
**Address** LOOMIS ST  
ROCKFORD IL  
**Location** @ SANFORD ST

**Started** Wednesday, October 27, 2021 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, October 27, 2021 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 032

**Survey Length** 395.00 **Survey Diam** 9.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>                 | <u>Severity</u> |
|--------------|-------------|-----------------|---|-----------------|
| B            | 0.00        | -               | Manhole                                       | 0               |
|              |             |                 | 032053 - New 5' precast MH installed 10/17/01 |                 |
| B            | 0.00        | -               | Water Level                                   | 0               |
| B            | 1.50        | -               | Material Change                               | 0               |
|              |             |                 | PVC   |                 |
| B            | 5.00        | -               | Material Change                               | 0               |
|              |             |                 | VCP   |                 |
| B            | 6.10        | -               | Water Level Sag                               | 2               |
| B            | 9.50        | 2 - 4           | Broken Soil Visible                           | 5               |
| B            | 11.90       | 12 -            | Broken  | 4               |
| B            | 15.30       | -               | Water Level Sag                               | 2               |
| B            | 17.40       | -               | Water Level Sag                               | 2               |
| B            | 30.50       | -               | Water Level Sag                               | 2               |
| B            | 35.00       | 3 -             | Crack Longitudinal                            | 2               |
| B            | 50.90       | 12 -            | Fracture Longitudinal                         | 3               |
| B            | 51.60       | 12 -            | Repair Patch                                  | 0               |
|              |             |                 | VCP PIPE                                      |                 |

|                    |                         |                           |       |             |   |
|--------------------|-------------------------|---------------------------|-------|-------------|---|
| <b>Report Date</b> | Monday, January 3, 2022 | <b>Group Inspection #</b> | 28983 | <b>Page</b> | 2 |
|--------------------|-------------------------|---------------------------|-------|-------------|---|

|   |        |         |                          |   |
|---|--------|---------|--------------------------|---|
| B | 54.90  | 12 -    | Repair Patch<br>VCP PIPE | 0 |
| B | 68.60  | 9 -     | Roots Fine Joint         | 1 |
| B | 71.10  | 9 -     | Roots Fine Joint         | 1 |
| B | 78.70  | 3 -     | Roots Fine Joint         | 1 |
| B | 81.20  | 12 - 12 | Roots Fine Joint         | 1 |
| B | 96.80  | 2 -     | Tap Break-in Abandoned   | 0 |
| B | 97.10  | 2 -     | Broken                   | 4 |
| B | 113.60 | 2 -     | Capped factory made tap  | 0 |
| B | 119.60 | 8 -     | Roots Fine Joint         | 1 |
| B | 124.40 | 12 - 12 | Roots Fine Joint         | 1 |
| B | 129.60 | 11 -    | Tap Break-in Intruding   | 2 |
| B | 129.60 | 12 - 12 | Roots Fine Connection    | 1 |
| B | 134.60 | 4 -     | Roots Fine Joint         | 1 |
| B | 141.30 | 10 -    | Capped factory made tap  | 0 |
| B | 142.50 | -       | Water Level Sag          | 2 |
| B | 152.90 | 3 -     | Roots Medium Joint       | 3 |
| B | 155.30 | 8 -     | Crack Longitudinal       | 2 |
| B | 155.30 | 3 -     | Roots Medium Joint       | 3 |
| B | 157.50 | 8 -     | Roots Fine Joint         | 1 |
| B | 160.30 | 5 -     | Roots Fine Joint         | 1 |
| B | 161.50 | 10 -    | Capped factory made tap  | 0 |
| B | 162.50 | 4 -     | Roots Fine Joint         | 1 |
| B | 165.30 | -       | Water Level Sag          | 2 |

**Report Date** Monday, January 3, 2022

**Group Inspection #**

28983

**Page**

3

|   |        |         |   |   |
|---|--------|---------|---|---|
| B | 166.00 | 2 -     | Capped factory made tap                       | 0 |
| B | 174.50 | 3 -     | Roots Fine Joint                              | 1 |
| B | 176.80 | 2 - 10  | Roots Medium Joint                            | 3 |
| B | 180.60 | -       | Water Level Sag                               | 4 |
| B | 195.30 | 10 - 2  | Fracture Spiral                               | 3 |
| B | 205.40 | 9 -     | Roots Medium Joint                            | 3 |
| B | 208.00 | 9 -     | Roots Medium Joint                            | 3 |
| B | 210.60 | 3 -     | Roots Medium Joint                            | 3 |
| B | 213.50 | 11 -    | Fracture Longitudinal                         | 3 |
| B | 220.00 | -       | Water Level Sag                               | 4 |
| B | 231.20 | 12 - 12 | Roots Medium Joint                            | 3 |
| B | 233.40 | 8 -     | Roots Medium Joint                            | 3 |
| B | 237.50 | 2 -     | Tap Break-in Intruding                        | 2 |
| B | 237.50 | 2 - 10  | Roots Tap Connection                          | 2 |
| B | 238.30 | 12 -    | Broken Soil Visible                           | 5 |
| B | 238.30 | 12 -    | Repair Patch Defective<br>VCP PATCHED CRACKED | 4 |
| B | 241.50 | 11 -    | Tap Break-in Intruding                        | 2 |
| B | 241.50 | 4 - 8   | Roots Medium Connection                       | 3 |
| B | 255.70 | 2 -     | Capped factory made tap                       | 0 |
| B | 260.40 | 10 -    | Capped factory made tap                       | 0 |
| B | 276.90 | 9 -     | Roots Fine Joint                              | 1 |
| B | 289.80 | 3 -     | Roots Medium Joint                            | 3 |
| B | 290.40 | 10 -    | Fracture Longitudinal                         | 3 |

Rem./Replace 175'-242'

Replace service to 912 Loomis St., include CO @ property line.

Replace service to 913 Loomis St., include CO @ property line.

**Report Date** Monday, January 3, 2022

**Group Inspection #**

28983

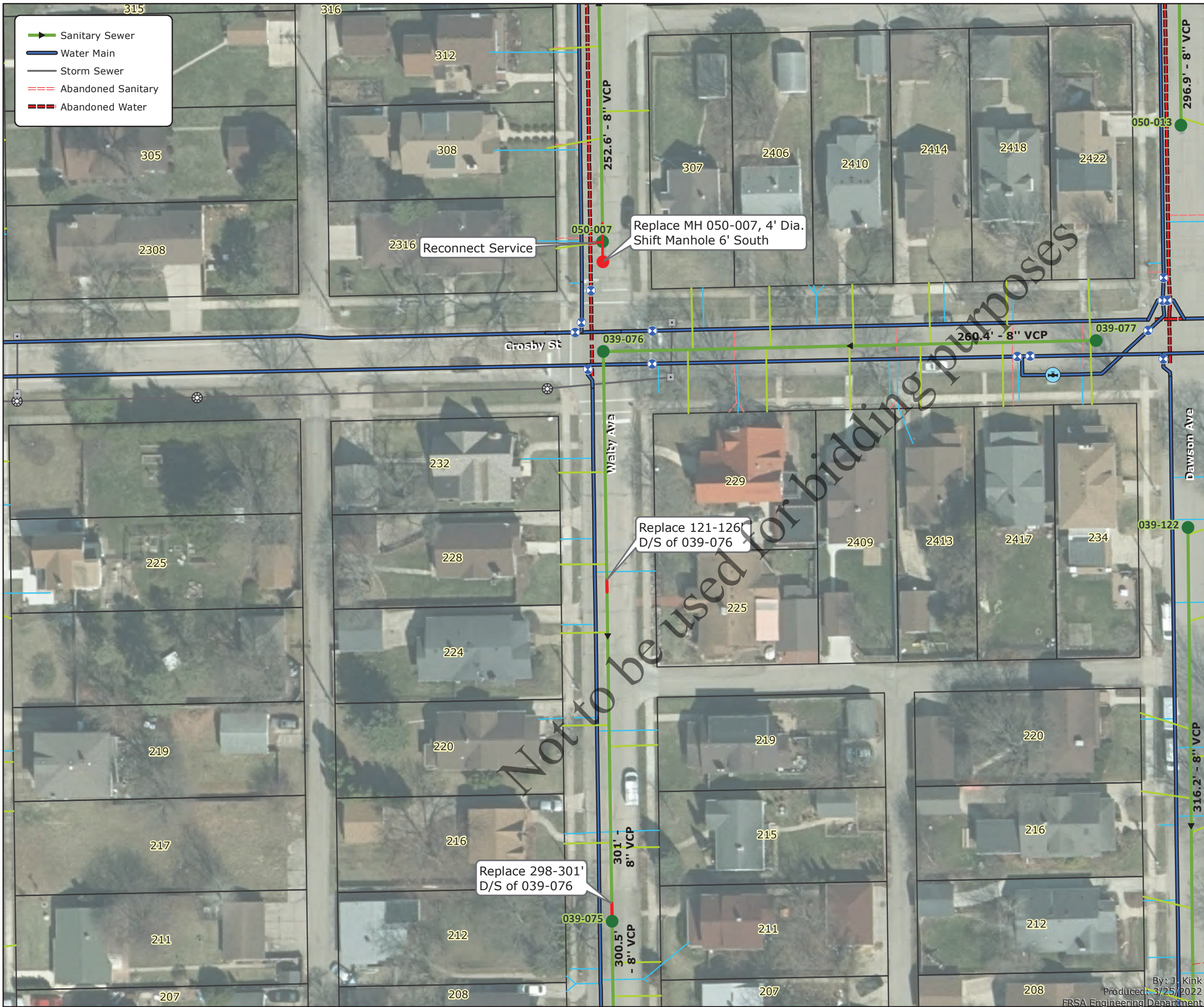
**Page**

4

|   |        |       |                          |   |
|---|--------|-------|--------------------------|---|
| B   | 306.00 | 12 -  | Tap Break-in Intruding   | 2 |
| B   | 337.20 | 2 -   | Tap; factory made active | 0 |
| B   | 339.20 | 11 -  | Capped factory made tap  | 0 |
| B   | 345.60 | 2 -   | Broken                   | 4 |
| B   | 351.10 | 5 - 7 | Fracture Spiral          | 3 |
| B   | 392.00 | -     | Material Change<br>PVC   | 0 |
| B   | 395.00 | -     | Manhole                  | 0 |
| 032052 - New 5' dia. precast MH installed by/date unknown |        |       |                          |   |

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.

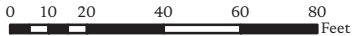
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. 85 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 5**



By: J. Kink  
Produced: 3/25/2022  
FRSA Engineering Department



**Report Date** Tuesday, March 15, 2022

**Group Inspection #**
**Page** 1

**Inspection #** 49774 **Activity** TVINSP - Main TV Inspection

**From ID** SMH 039076 **To ID** SMH 039075 **Length** 301.00

**Address** WELTY AVE  
 ROCKFORD IL

**Location** @ CROSBY ST

**Started** Thursday, March 12, 2009 **Weather** COLD +20 **Reverse Setup** ☐
**Completed** Thursday, March 12, 2009 **Both Directions Setup** ☐
**Comp By** 0048 GLEN K HIGGENBOTHAM **Prone to Blown Toilet** ☐
**Project** 039

**Survey Length** 301.00 **Survey Diam** 8.00 **UP Depth** 10.40 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments** ""CIP""

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>                    | <u>Severity</u>              |
|--------------|-------------|-----------------|--|------------------------------|
| B            | 0.00        | -               | MANHOLE  | UPSTREAM MANHOLE             |
| B            | 64.20       | 3 -             | LATERAL  | FACTORY SERVICE - RIGHT      |
| B            | 93.40       | -               | STRUCTURAL   | PIPE MATERIAL CHANGES TO PVC |
|              |             |                 | Point repair completed by District crews on 4/24/95. |                              |
| B            | 99.50       | -               | STRUCTURAL   | PIPE MATERIAL CHANGES TO VCP |
| B            | 114.30      | 3 -             | LATERAL  | FACTORY SERVICE - RIGHT      |
| B            | 114.40      | 12 -            | LATERAL  | PLUMBER SERVICE - CROWN      |
| B            | 123.40      |                 | BROKEN JOINT<br>AMKRETE REPAIR                       | BRK JT - MEDIUM              |
|              |             |                 | Rem./Replace 121'-126'                               |                              |
| B            | 151.10      | 3 -             | LATERAL  | FACTORY SERVICE - RIGHT      |
| B            | 196.50      | -               | ALIGNMENT  | SAG BEGINS                   |
| B            | 201.30      | 3 -             | LATERAL  | FACTORY SERVICE - RIGHT      |
| B            | 203.30      | -               | ALIGNMENT  | SAG ENDS LIGHT               |
| B            | 211.60      | 12 -            | LATERAL  | PLUMBER SERVICE - CROWN      |
|              |             |                 | RISER  |                              |
| B            | 211.80      | 9 -             | LATERAL  | SERVICE CONNECTION CAPPED    |



**Report Date** Tuesday, March 15, 2022

**Group Inspection #**
**Page** 2

|   |        |     |                |                         |
|---|--------|-----|----------------|-------------------------|
| B | 264.50 | 3 - | LATERAL        | FACTORY SERVICE - RIGHT |
| B | 267.40 | 9 - | LATERAL        | FACTORY SERVICE - LEFT  |
| B | 300.30 | -   | BROKEN JOINT   | BRK JT - MEDIUM         |
|   |        |     | AMKRETE REPAIR |                         |
| B | 301.00 | -   | MANHOLE        | DOWNSTREAM MANHOLE      |

Rem./Replace  
 298'-301'.  
 Reconnect to MH  
 039075

Not to be used for bidding purposes

**MANHOLE INSPECTION FORM**

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 050-007 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-21-22 |
|------------------------|-------------------------|----------------------|

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

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

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

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 813.68 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

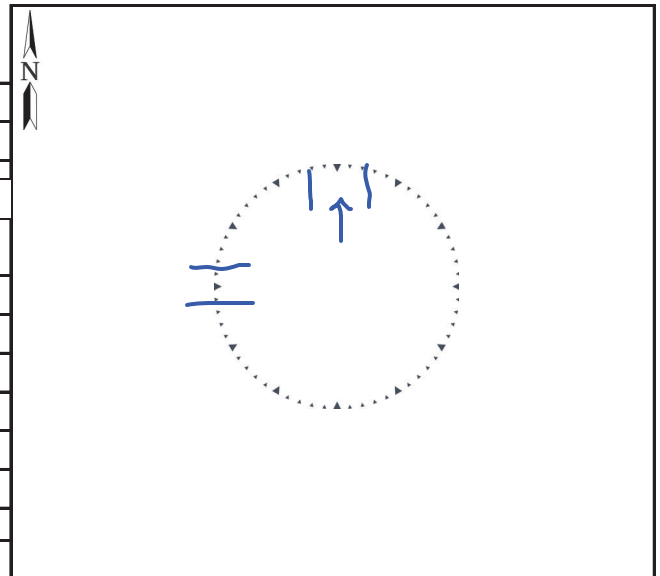
|                       |                          |                          |                          |
|-----------------------|--------------------------|--------------------------|--------------------------|
| <b>INFLOW:</b>        |                          |                          |                          |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>              | <b>SIZE:</b>             | <b>MTRL:</b>             |
|                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                       |                          |                          |                          |
|                       |                          |                          |                          |

|                  |                               |                                   |                                    |
|------------------|-------------------------------|-----------------------------------|------------------------------------|
| <b>SERVICES:</b> |                               |                                   |                                    |
| SERV 1 POS:      | 9:00 <input type="checkbox"/> | SIZE: 6" <input type="checkbox"/> | MTRL: VCP <input type="checkbox"/> |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                              |
| SERV 2 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>     |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                              |
| SERV 3 POS:      |                               | SIZE:                             | MTRL:                              |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                              |

|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 050-006                | N <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                        |                            |                             |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|   |
|---|
| <b>COMMENTS:</b> 6" SERVICE IS FULL OF RAGS   |
| FLAT BENCH COLLECTS RAGS  |
| Remove and replace manhole with new 4' diameter MH conforming to standard details provided in Section IV. Shift location of new manhole 6' south of existing and reconnect service to 2316 Crosby St. to new main line. |
|   |
|   |



## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 039-075 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-21-22 |
|------------------------|-------------------------|----------------------|

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

### LID/COVER:

|                                       |                                |                                       |                                  |              |
|---------------------------------------|--------------------------------|---------------------------------------|----------------------------------|--------------|
| <b>LOCKING:</b>                       | <b>STAMP:</b>                  | <b>LID:</b>                           | <b>GASKET:</b>                   | <b>MISC:</b> |
| SELF LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | CONCEALED PI <input type="checkbox"/> | DAMAGED <input type="checkbox"/> |              |

### FRAME:

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

### ADJUSTMENT RINGS:

|                                  |                            |                             |                               |
|----------------------------------|----------------------------|-----------------------------|-------------------------------|
| <b>TYPE:</b>                     | <b>QTY:</b>                | <b>SIZE:</b>                | <b>CONDITION:</b>             |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 4" <input type="checkbox"/> | GOOD <input type="checkbox"/> |
|                                  |                            |                             |                               |
|                                  |                            |                             |                               |

### CONE:

|                                |                               |
|--------------------------------|-------------------------------|
| <b>TYPE:</b>                   | <b>CONDITION:</b>             |
| BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> |

### WALL:

|                                |                               |
|--------------------------------|-------------------------------|
| <b>TYPE:</b>                   | <b>CONDITION:</b>             |
| BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> |

### STEPS:

|                                    |                               |
|------------------------------------|-------------------------------|
| <b>TYPE:</b>                       | <b>CONDITION:</b>             |
| CAST IRON <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| 1ST<30" FROM RIM:                  | NO <input type="checkbox"/>   |
| LAST<24" TO BENCH:                 | YES <input type="checkbox"/>  |

### BENCH:

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

### INFILTRATION:

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 807.38 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

### INFLOW:

| UPSTRM MH ID#: | DIR:                       | SIZE:                       | MTRL:                        |  |
|----------------|----------------------------|-----------------------------|------------------------------|--|
| 039-076        | N <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |  |
|                |                            |                             |                              |  |
|                |                            |                             |                              |  |

|             |       |            |       |       |        |
|-------------|-------|------------|-------|-------|--------|
| DEPTH HIGH: | ELEV: | DEPTH LOW: | 12.10 | ELEV: | 795.28 |
| DEPTH HIGH: | ELEV: | DEPTH LOW: |       | ELEV: |        |
| DEPTH HIGH: | ELEV: | DEPTH LOW: |       | ELEV: |        |

### SERVICES:

|             |                               |       |                             |            |                              |          |               |
|-------------|-------------------------------|-------|-----------------------------|------------|------------------------------|----------|---------------|
| SERV 1 POS: | 3:00 <input type="checkbox"/> | SIZE: | 6" <input type="checkbox"/> | MTRL:      | VCP <input type="checkbox"/> | ADDRESS: | 212 WELTY AVE |
| DEPTH HIGH: |                               | ELEV: |                             | DEPTH LOW: | 9.74                         | ELEV:    | 797.64        |
| SERV 2 POS: |                               | SIZE: |                             | MTRL:      |                              | ADDRESS: |               |
| DEPTH HIGH: |                               | ELEV: |                             | DEPTH LOW: |                              | ELEV:    |               |
| SERV 3 POS: |                               | SIZE: |                             | MTRL:      |                              | ADDRESS: |               |
| DEPTH HIGH: |                               | ELEV: |                             | DEPTH LOW: |                              | ELEV:    |               |

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

### OUT FLOW:

| DWNSTRM MH ID#: | DIR:                       | SIZE:                       | MTRL:                        |  |
|-----------------|----------------------------|-----------------------------|------------------------------|--|
| 039-074A        | S <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |  |
|                 |                            |                             |                              |  |
|                 |                            |                             |                              |  |

|        |       |       |        |
|--------|-------|-------|--------|
| DEPTH: | 12.10 | ELEV: | 795.25 |
| DEPTH: |       | ELEV: |        |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:**

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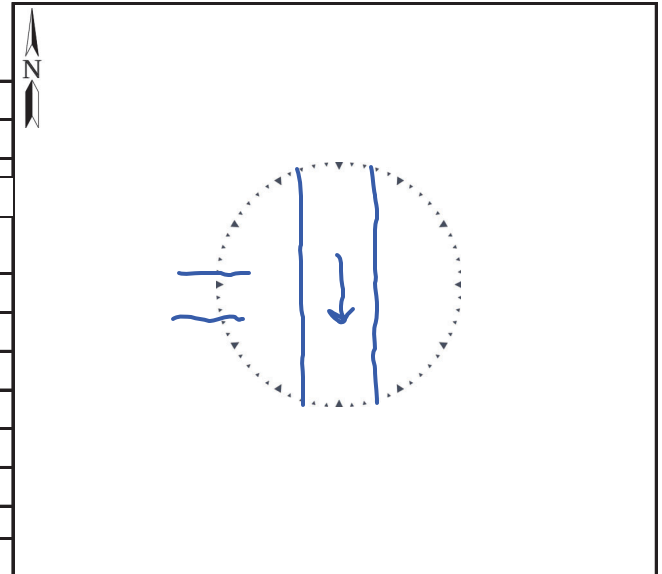
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**General Notes:**

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.

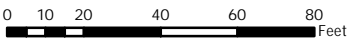
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. 113 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" compacted aggregate base course.

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

**Capital Project #2354 - Map 6**





|  |                                 |               |
|--|---------------------------------|---------------|
| <b>Report Date</b> Tuesday, March 15, 2022 | <b>Group Inspection #</b> 20662 | <b>Page</b> 1 |
|--|---------------------------------|---------------|

|   |   |
|---|---|
| <b>Inspection #</b> 81501                 | <b>Activity</b> TVINSP - Main TV Inspection           |
| <b>From ID</b> SMH 044046                 | <b>To ID</b> SMH 044044                               |
| <b>Address</b> BERKLEY ST<br>ROCKFORD IL  | <b>Length</b> 396.20                                  |
| <b>Location</b> @ WEBSTER AV              |   |
| <b>Started</b> Tuesday, October 9, 2018   | <b>Weather</b> CLOUDY+70                              |
| <b>Completed</b> Tuesday, October 9, 2018 | <b>Reverse Setup</b> <input type="checkbox"/>         |
| <b>Comp By</b> 0051 VINCE MANGIARACINA    | <b>Both Directions Setup</b> <input type="checkbox"/> |
| <b>Project</b> 044                        | <b>Prone to Blown Toilet</b> <input type="checkbox"/> |

|                             |                          |                      |                       |                      |
|-----------------------------|--------------------------|----------------------|-----------------------|----------------------|
| <b>Survey Length</b> 396.20 | <b>Survey Diam</b> 10.00 | <b>UP Depth</b> 8.60 | <b>DWN Depth</b> 9.60 | <b>Pipe Type</b> VCP |
|-----------------------------|--------------------------|----------------------|-----------------------|----------------------|

**Comments**
**Observations**

| Setup | From   | Position | Observation / Comments | Severity                  |
|-------|--------|----------|------------------------|---------------------------|
| B     | 0.00   | -        | MANHOLE                | UPSTREAM MANHOLE          |
| B     | 26.60  | -        | ROOTS                  | ROOTS-LIGHT               |
| B     | 29.90  | -        | INFLOW/INFILTRATION    | I/I - LIGHT(0-1 GPM)      |
| B     | 44.40  | -        | INFLOW/INFILTRATION    | I/I - MEDIUM(1-5 GPM)     |
| B     | 49.80  | -        | INFLOW/INFILTRATION    | I/I - LIGHT(0-1 GPM)      |
| B     | 89.70  | 10 -     | LATERAL                | PLUMBER SERVICE - LEFT    |
| B     | 110.10 | 3 -      | LATERAL                | SERVICE CONNECTION CAPPED |
| B     | 112.70 | 9 -      | LATERAL                | SERVICE CONNECTION CAPPED |
| B     | 138.80 | 3 -      | LATERAL                | FACTORY SERVICE - RIGHT   |
| B     | 151.30 | 3 -      | LATERAL                | SERVICE CONNECTION CAPPED |
| B     | 154.00 | 9 -      | LATERAL                | SERVICE CONNECTION CAPPED |
| B     | 179.60 | 9 -      | LATERAL                | PLUMBER SERVICE - LEFT    |
| B     | 184.70 | 3 -      | LATERAL                | PROTRUDING SERVICE 0"-1"  |

2012 Berkley St - Pushed 4" pvc with c/o @ pl 07/22/20

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20662

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|   |        |      |  |                              |  |
|---|--------|------|--|------------------------------|--|
| B | 237.40 | -    | INFLOW/INFILTRATION  | I/I - MEDIUM(1-5 GPM)        |  |
| B | 237.90 | -    | ALIGNMENT  | SAG BEGINS                   |  |
| B | 241.10 | -    | STRUCTURAL   | PIPE MATERIAL CHANGES TO PVC |  |
|   |        |      | Point repair completed by District crew 08/16/94   |                              |  |
| B | 243.50 | 9 -  | LATERAL  | FACTORY SERVICE - LEFT       |  |
|   |        |      | 2009 Berkley St - District crew installed new wye only 08/16/94 (removed manhole and installed new wye only) |                              |  |
| B | 269.70 | -    | STRUCTURAL   | PIPE MATERIAL CHANGES TO VCP |  |
| B | 269.90 | -    | INFLOW/INFILTRATION  | I/I - MEDIUM(1-5 GPM)        |  |
| B | 288.80 | 10 - | LATERAL  | SERVICE CONNECTION CAPPED    |  |
|   |        |      | VCP  |                              |  |
| B | 296.20 | -    | ALIGNMENT  | SAG ENDS HEAVY               |  |
| B | 297.40 | 12 - | BROKEN JOINT   | BRK JT - LIGHT               |  |
| B | 329.80 | 10 - | LATERAL  | SERVICE CONNECTION CAPPED    |  |
|   |        |      | VCP  |                              |  |
| B | 379.90 | 1 -  | BROKEN JOINT   | BRK JT - MEDIUM              |  |
| B | 396.20 | -    | MANHOLE  | DOWNSTREAM MANHOLE           |  |

Reconnect 2009  
Berkley St. w/  
new wye.

Rem./Replace  
234'-299'

Not to be used for Bidding purposes







**Report Date** Tuesday, March 15, 2022 **Group Inspection #** 24862 **Page** 1

**Inspection #** 89213 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 049007 **To ID** SMH 049006 **Length** 307.60  
**Address** N CHICAGO AVE  
ROCKFORD IL  
**Location** @ GUILFORD RD

**Started** Wednesday, June 10, 2020 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, June 10, 2020 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 049

**Survey Length** 307.60 **Survey Diam** 9.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>     | <u>Severity</u> |
|--------------|-------------|-----------------|-----------------------------------|-----------------|
| B            | 0.00        | -               | Manhole 049007                    | 0               |
| B            | 0.00        | -               | Water Level                       | 0               |
| B            | 7.90        | 2 - 5           | Fracture Circumferential          | 2               |
| B            | 38.80       | 10 -            | Tap Break-in Active               | 0               |
| B            | 51.80       | 10 -            | VCP<br>Capped factory made tap    | 0               |
| B            | 53.00       | 8 - 4           | VCP<br>Deposits Attached Encrusta | 2               |
| B            | 60.60       | 8 - 4           | Deposits Attached Encrusta        | 2               |
| B            | 73.00       | 7 - 9           | Deposits Attached Encrusta        | 2               |
| B            | 74.40       | 10 -            | Tap Break-in Intruding            | 2               |
| B            | 75.50       | 9 -             | VCP<br>Deposits Attached Encrusta | 2               |
| B            | 75.50       | 1 - 5           | Roots Fine Joint                  | 1               |
| B            | 77.90       | 8 - 4           | Roots Fine Joint                  | 1               |
| B            | 80.50       | 8 - 4           | Deposits Attached Encrusta        | 2               |



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|   |        |        |   |   |
|---|--------|--------|---|---|
| B | 82.90  | 8 - 4  | Roots Fine Joint                          | 1 |
| B | 85.20  | 1 - 5  | Roots Fine Joint                          | 1 |
| B | 93.80  | 10 -   | Capped factory made tap<br>VCP            | 0 |
| B | 100.00 | 8 - 10 | Hole Void Visible                         | 5 |
| B | 102.70 | -      | Water Level Sag                           | 2 |
| B | 111.90 | 9 -    | Tap Break-in Active<br>VCP                | 0 |
| B | 111.90 | 2 - 4  | Hole Void Visible<br>HOLE THREE FEET LONG | 5 |
| B | 136.20 | 2 -    | Capped factory made tap<br>VCP            | 0 |
| B | 138.30 | 10 -   | Capped factory made tap<br>VCP            | 0 |
| B | 139.80 | 12 -   | Fracture Longitudinal                     | 3 |
| B | 149.30 | 3 -    | Tap Break-in Active<br>VCP                | 0 |
| B | 158.30 | 7 - 8  | Deposits Attached Encrusta                | 2 |
| B | 181.00 | 8 - 4  | Deposits Attached Encrusta                | 2 |
| B | 184.20 | 3 -    | Capped factory made tap<br>VCP            | 0 |
| B | 186.10 | 9 -    | Tap; factory made active<br>VCP           | 0 |
| B | 196.50 | 2 -    | Tap Break-in Active<br>VCP                | 0 |
| B | 208.20 | 8 - 4  | Deposits Attached Encrusta                | 2 |
| B | 208.90 | 3 -    | Crack Longitudinal                        | 2 |
| B | 222.80 | 3 -    | Tap Break-in Active<br>VCP                | 0 |
| B | 228.00 | 2 -    | Capped factory made tap<br>VCP            | 0 |
| B | 230.00 | 10 -   | Capped factory made tap<br>VCP            | 0 |
| B | 233.10 | 12 -   | Fracture Longitudinal                     | 3 |
| B | 243.20 | 8 - 4  | Deposits Attached Encrusta                | 2 |

Rem./Replace 95'-115'.  
 Replace Service to  
 915 Chicago Ave.; including  
 CO at property line.

Not to be used for bidding

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**Group Inspection #**

24862

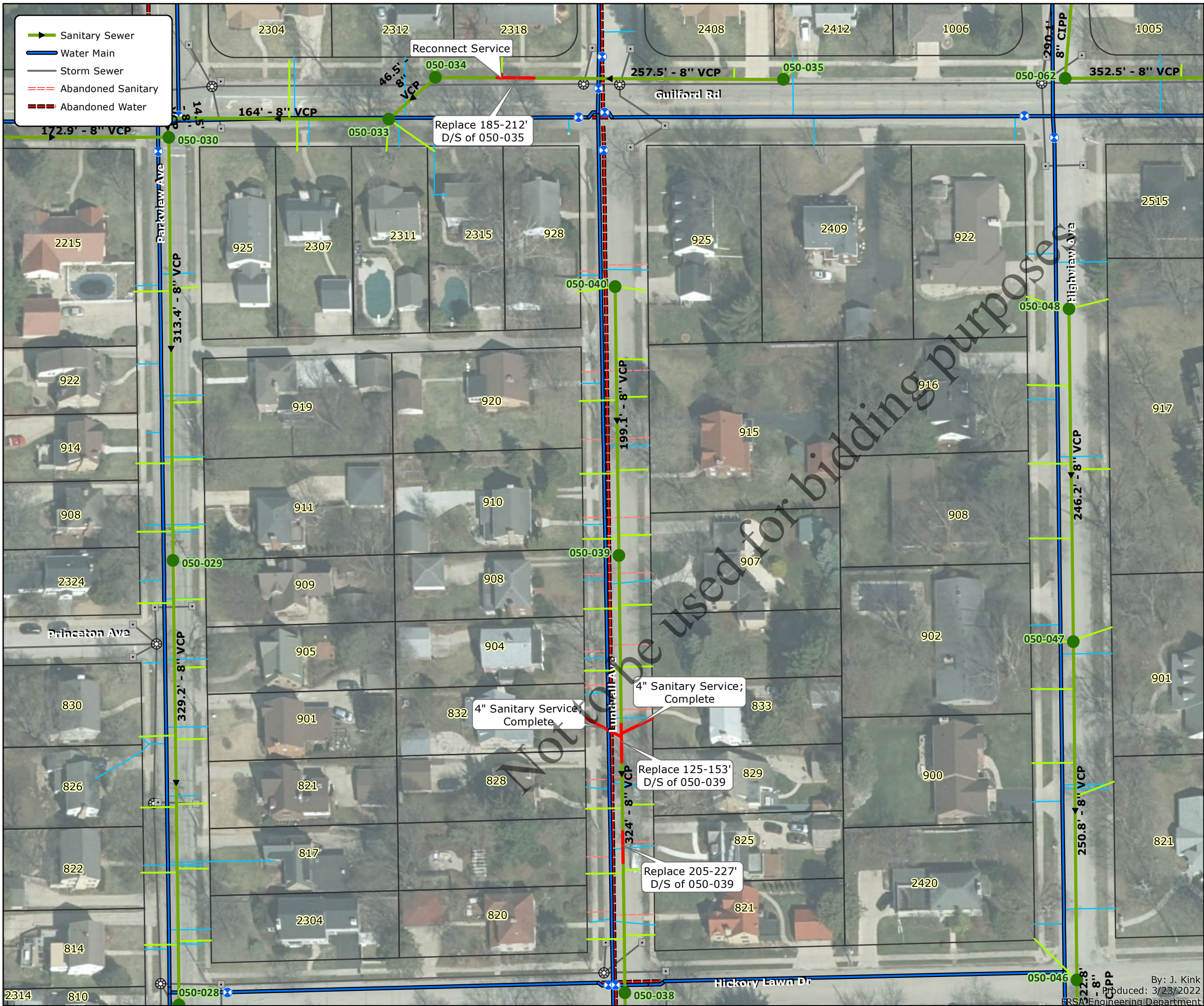
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|   |        |        |                              |   |
|---|--------|--------|------------------------------|---|
| B | 259.20 | 3 -    | Tap Break-in Defective       | 3 |
|   |        |        | VCP, MEDIUM ROOTS IN SERVICE |   |
| B | 263.30 | 2 -    | Facotry made tap             | 0 |
|   |        |        | VCP, HEAVY DEBRIS            |   |
| B | 265.30 | 10 -   | Capped factory made tap      | 0 |
|   |        |        | VCP                          |   |
| B | 270.40 | 12 -   | Fracture Longitudinal        | 3 |
| B | 270.40 | 11 - 4 | Roots Fine Joint             | 1 |
| B | 272.40 | 10 - 2 | Roots Fine Joint             | 1 |
| B | 274.40 | 8 - 4  | Roots Fine Joint             | 1 |
| B | 276.80 | 12 -   | Roots Fine Joint             | 1 |
| B | 278.80 | 8 - 4  | Roots Fine Joint             | 1 |
| B | 289.20 | 1 - 5  | Roots Fine Joint             | 1 |
| B | 293.40 | -      | Repair Point Pipe Replaced   | 0 |
|   |        |        | PVC                          |   |
| B | 294.70 | -      | Material Change              | 0 |
|   |        |        | VCP                          |   |
| B | 295.50 | 7 - 5  | Deposits Attached Encrust:   | 2 |
| B | 297.50 | -      | Repair Point Pipe Replaced   | 0 |
|   |        |        | PVC                          |   |
| B | 307.60 | -      | Manhole                      | 0 |
|   |        |        | 049006                       |   |

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 may sleeve new 4" diameter PVC service pipe through existing 6" diameter VCP service pipe as conditions allow.
2. Contractor shall protect 18" RCP storm sewer on Guilford Rd. any pipe damaged in construction shall be replaced at Contractor's expense.
3. 30 SY of pavement removal and replacement is estimated on Guilford Rd. Minimum pavement section is 2.0" HMA SC over 6" HMA BC placed on 12" compacted aggregate base course.
4. 135 SY of pavement removal and replacement is estimated on Lundvall Ave. Minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" compacted aggregate base course.
5. 64 SF of PCC sidewalk removal and replacement is estimated. Minimum PCC thickness is 4.0".
6. 64 LF of PCC curb and gutter removal and replacement is estimated.

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

**Capital Project #2354 - Map 8**



**Report Date** Thursday, December 23, 2021 **Group Inspection #** 23922 **Page** 1

**Inspection #** 87725 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 050035 **To ID** SMH 050034 **Length** 257.50

**Address** 2412 GUILFORD RD  
ROCKFORD IL

**Location**

**Started** Wednesday, December 18, 2019 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, December 18, 2019 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 050

**Survey Length** 257.50 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>                 | <u>Severity</u> |
|--------------|-------------|-----------------|---|-----------------|
| B            | 0.00        | -               | Manhole 050035                                | 0               |
| B            | 0.00        | -               | Water Level                                   | 0               |
| B            | 13.50       | 9 -             | Crack Longitudinal                            | 2               |
| B            | 18.60       | 12 - 12         | Fracture Multiple                             | 4               |
| B            | 33.00       | 3 -             | Tap Break-in Active                           | 0               |
| B            | 38.40       | 4 - 8           | CAS Fracture Spiral                           | 3               |
| B            | 53.00       |                 | Repair Point Pipe Replaced Completed 08/10/98 | 0               |
| B            | 59.00       | -               | Repair Point Pipe Replaced VCP                | 0               |
| B            | 80.00       | 3 - 6           | Crack Spiral                                  | 2               |
| B            | 102.00      | 4 - 8           | Deposits Attached Encrusta                    | 2               |
| B            | 108.30      | 12 -            | Fracture Longitudinal                         | 3               |
| B            | 111.40      | 5 -             | Roots Medium Joint                            | 3               |
| B            | 114.50      | 9 - 3           | Crack Spiral                                  | 2               |

**Report Date** Thursday, December 23, 2021

**Group Inspection #**

23922

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|   |        |         |                               |   |
|---|--------|---------|-------------------------------|---|
| B | 123.60 | 3 - 9   | Fracture Spiral               | 3 |
| B | 129.40 | -       | Repair Point Pipe Replaced    | 0 |
|   |        |         | Completed by and date unknown |   |
| B | 134.60 | -       | Repair Point Pipe Replaced    | 0 |
|   |        |         | VCP                           |   |
| B | 142.60 | 6 - 10  | Crack Spiral                  | 2 |
| B | 145.10 | -       | Repair Point Pipe Replaced    | 0 |
|   |        |         | Completed by and date unknown |   |
| B | 149.30 | -       | Repair Point Pipe Replaced    | 0 |
|   |        |         | VCP                           |   |
| B | 174.30 | 12 - 12 | Fracture Spiral               | 3 |
| B | 186.10 | 3 - 9   | Broken                        | 4 |
| B | 192.50 | 8 -     | Fracture Longitudinal         | 3 |
| B | 200.30 | -       | Water Level Sag               | 4 |
| B | 201.90 | 9 - 3   | Fracture Spiral               | 3 |
| B | 208.60 | 3 -     | Tap; factory made active      | 0 |
|   |        |         | CAS                           |   |
| B | 208.80 | -       | Water Level Sag               | 2 |
| B | 222.50 | 7 -     | Fracture Longitudinal         | 3 |
| B | 257.50 | -       | Manhole                       | 0 |
|   |        |         | 050034                        |   |

Rem./Replace 185'-212'

 Reconnect service to 2318  
 Guilford Rd. w/ new wye.

Not to be used for bidding purposes

Report Date Tuesday, March 15, 2022 Group Inspection # 23922 Page 1

Inspection # 87727 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

From ID SMH 050039 To ID SMH 050038 Length 324.00

Address 910 LUNDVALL AVE  
ROCKFORD IL

Location

Started Wednesday, December 4, 2019 Weather 1 Reverse Setup ☐  
Completed Wednesday, December 4, 2019 Both Directions Setup ☐  
Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐  
Project 050

Survey Length 324.00 Survey Diam 8.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From   | Position | Observation / Comments         | Severity |
|-------|--------|----------|--------------------------------|----------|
| B     | 0.00   | -        | Manhole 050039                 | 0        |
| B     | 0.00   | -        | Water Level                    | 0        |
| B     | 31.80  | 10 -     | Tap; factory made active       | 0        |
| B     | 34.10  | 2 -      | Tap; factory made active       | 0        |
| B     | 38.40  | 10 - 2   | LIGHT ROOTS<br>Fracture Spiral | 3        |
| B     | 48.70  | 10 - 2   | Crack Spiral                   | 2        |
| B     | 53.80  | 9 -      | Crack Longitudinal             | 2        |
| B     | 76.90  | 9 - 3    | Fracture Spiral                | 3        |
| B     | 77.90  | 10 -     | Tap; factory made active       | 0        |
| B     | 80.30  | 2 -      | Tap; factory made active       | 0        |
| B     | 89.70  | 12 - 12  | Crack Spiral                   | 2        |
| B     | 122.90 | 9 - 3    | Crack Spiral                   | 2        |
| B     | 128.30 | -        | Water Level Sag                | 2        |

Rem./Replace 125'-153'

**Report Date** Tuesday, March 15, 2022

**Group Inspection #**

23922

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2

|   |        |         |                          |   |
|---|--------|---------|--------------------------|---|
| B | 132.00 | 9 -     | Tap; factory made active | 0 |
| B | 134.60 | 2 -     | Tap; factory made active | 0 |
| B | 136.00 | 12 - 12 | Crack Spiral             | 2 |
| B | 148.70 | 12 - 6  | Fracture Spiral          | 3 |
| B | 151.40 | -       | Water Level Sag          | 2 |
| B | 169.70 | 12 - 4  | Crack Spiral             | 2 |
| B | 179.70 | 9 -     | Roots Fine Joint         | 1 |
| B | 180.70 | 10 -    | Tap; factory made active | 0 |
| B | 183.30 | 2 -     | Tap; factory made active | 0 |
| B | 185.00 | 4 -     | Crack Longitudinal       | 2 |
| B | 209.50 | -       | Water Level Sag          | 2 |
| B | 222.40 | -       | Water Level Sag          | 2 |
| B | 224.00 | 12 - 12 | Fracture Spiral          | 3 |
| B | 230.00 | 10 -    | Tap; factory made active | 0 |
| B | 231.30 | 9 - 3   | Crack Spiral             | 2 |
| B | 232.50 | 2 -     | Tap; factory made active | 0 |
| B | 241.70 | 9 - 3   | Fracture Spiral          | 3 |
| B | 278.90 | 10 -    | Tap; factory made active | 0 |
| B | 281.60 | 2 -     | Tap; factory made active | 0 |
| B | 288.00 | 9 - 3   | Crack Spiral             | 2 |
| B | 308.10 | 12 -    | Crack Longitudinal       | 2 |
| B | 324.00 | -       | Manhole                  | 0 |

050038

Replace Services to 832 & 833  
Lundvall Ave.; including COs @  
property lines.

Rem./Replace 125'-153'

Rem./Replace 205'-227'

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.

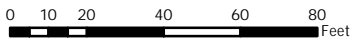
**Roadway Authority:** City of Rockford

#### Site Specific Considerations and Estimated Incidental Work Items:

1. 130 SY of pavement removal and replacement is estimated. Minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.

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

#### Capital Project #2354 - Map 9



By: J. Kink  
Produced: 3/23/2022  
FRSA Engineering Department



**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 23922 **Page** 1

**Inspection #** 87735 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 050057 **To ID** SMH 050056 **Length** 221.00

**Address** JAMES AVE  
ROCKFORD IL

**Location** @ HICKORY LAWN DR

**Started** Wednesday, December 11, 2019 **Weather** 1 **Reverse Setup** ☐

**Completed** Wednesday, December 11, 2019 **Both Directions Setup** ☐

**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐

**Project** 050

**Survey Length** 221.00 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| Setup | From  | Position | Observation / Comments                  | Severity |
|-------|-------|----------|---|----------|
| B     | 0.00  | -        | Manhole<br>050057                       | 0        |
| B     | 0.00  | -        | Water Level                             | 0        |
| B     | 19.50 | -        | Repair Other Defective<br>BAD AMKRETE   | 0        |
| B     | 34.20 | 8 - 4    | Crack Spiral                            | 2        |
| B     | 39.30 | 5 -      | Roots Fine Joint                        | 1        |
| B     | 41.60 | 4 -      | Roots Fine Joint                        | 1        |
| B     | 44.20 | 9 - 3    | Crack Spiral                            | 2        |
| B     | 48.30 | 9 -      | Tap; factory made active<br>HEAVY ROOTS | 0        |
| B     | 50.80 | 3 -      | Tap; factory made active<br>LIGHT ROOTS | 0        |
| B     | 64.00 | 10 - 2   | Crack Spiral                            | 2        |
| B     | 66.40 | 11 - 2   | Crack Spiral                            | 2        |
| B     | 76.60 | 9 - 3    | Crack Spiral                            | 2        |
| B     | 89.60 | -        | Repair Other Defective<br>BAD AMKRETE   | 0        |

Rem./Replace 17'-22'

Rem./Replace 87'-92'

|                    |                           |                           |       |             |   |
|--------------------|---------------------------|---------------------------|-------|-------------|---|
| <b>Report Date</b> | Wednesday, March 16, 2022 | <b>Group Inspection #</b> | 23922 | <b>Page</b> | 2 |
|--------------------|---------------------------|---------------------------|-------|-------------|---|

|   |        |         |                          |   |
|---|--------|---------|--------------------------|---|
| B | 95.30  | 3 - 7   | Crack Spiral             | 2 |
| B | 103.70 | 9 -     | Tap; factory made active | 0 |
| B | 106.20 | 3 -     | Tap; factory made active | 0 |
| B | 109.70 | 1 - 5   | Crack Spiral             | 2 |
| B | 122.50 | 9 - 11  | Crack Spiral             | 2 |
| B | 124.80 | 3 - 9   | Crack Spiral             | 2 |
| B | 132.40 | 8 - 2   | Crack Spiral             | 2 |
| B | 142.30 | 2 -     | Roots Fine Joint         | 1 |
| B | 156.50 | 9 -     | Tap; factory made active | 0 |
| B | 158.00 | 2 - 5   | Fracture Spiral          | 3 |
| B | 159.00 | 3 -     | Tap; factory made active | 0 |
| B | 177.70 | 10 - 2  | Crack Spiral             | 2 |
| B | 184.50 | -       | Repair Other Defective   | 0 |
| B | 195.80 | 4 - 8   | BAD AMKRETE<br>Broken    | 4 |
| B | 205.70 | 12 - 12 | Roots Fine Joint         | 1 |
| B | 207.70 | 12 - 12 | Fracture Spiral          | 3 |
| B | 216.20 | 12 - 12 | Roots Fine Joint         | 1 |
| B | 221.00 | -       | Manhole                  | 0 |
|   |        |         | 050056                   |   |

Rem./Replace 181'-197'

**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 23922 **Page** 1

**Inspection #** 87734 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 050056 **To ID** SMH 050055 **Length** 201.00

**Address** 732 JAMES AVE  
ROCKFORD IL

**Location**

**Started** Wednesday, December 11, 2019 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, December 11, 2019 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 050

**Survey Length** 201.00 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>            | <u>Severity</u> |
|--------------|-------------|-----------------|--|-----------------|
| B            | 0.00        | -               | Manhole<br>050056                        | 0               |
| B            | 0.00        | -               | Water Level                              | 0               |
| B            | 21.30       | -               | Repair Other Defective<br>BAD AMKRETE    | 0               |
| B            | 41.70       | 11 - 5          | Crack Spiral                             | 2               |
| B            | 43.00       | 9 -             | Tap; factory made active<br>LIGHT ROOTS  | 0               |
| B            | 45.50       | 3 -             | Tap; factory made active                 | 0               |
| B            | 71.20       | -               | Repair Other Defective<br>BAD AMKRETE    | 0               |
| B            | 95.60       | 9 -             | Tap; factory made active                 | 0               |
| B            | 98.10       | 3 -             | Tap; factory made active                 | 0               |
| B            | 142.20      | 11 - 3          | Fracture Spiral                          | 3               |
| B            | 150.20      | 3 -             | Deposits Attached Encrusta               | 2               |
| B            | 153.60      | 9 -             | Tap; factory made active                 | 0               |
| B            | 156.00      | 3 -             | Tap; factory made active<br>MEDIUM ROOTS | 0               |

Rem./Replace 18'-24'

Rem./Replace 68'-74'

**Report Date** Wednesday, March 16, 2022

**Group Inspection #**

23922

**Page**

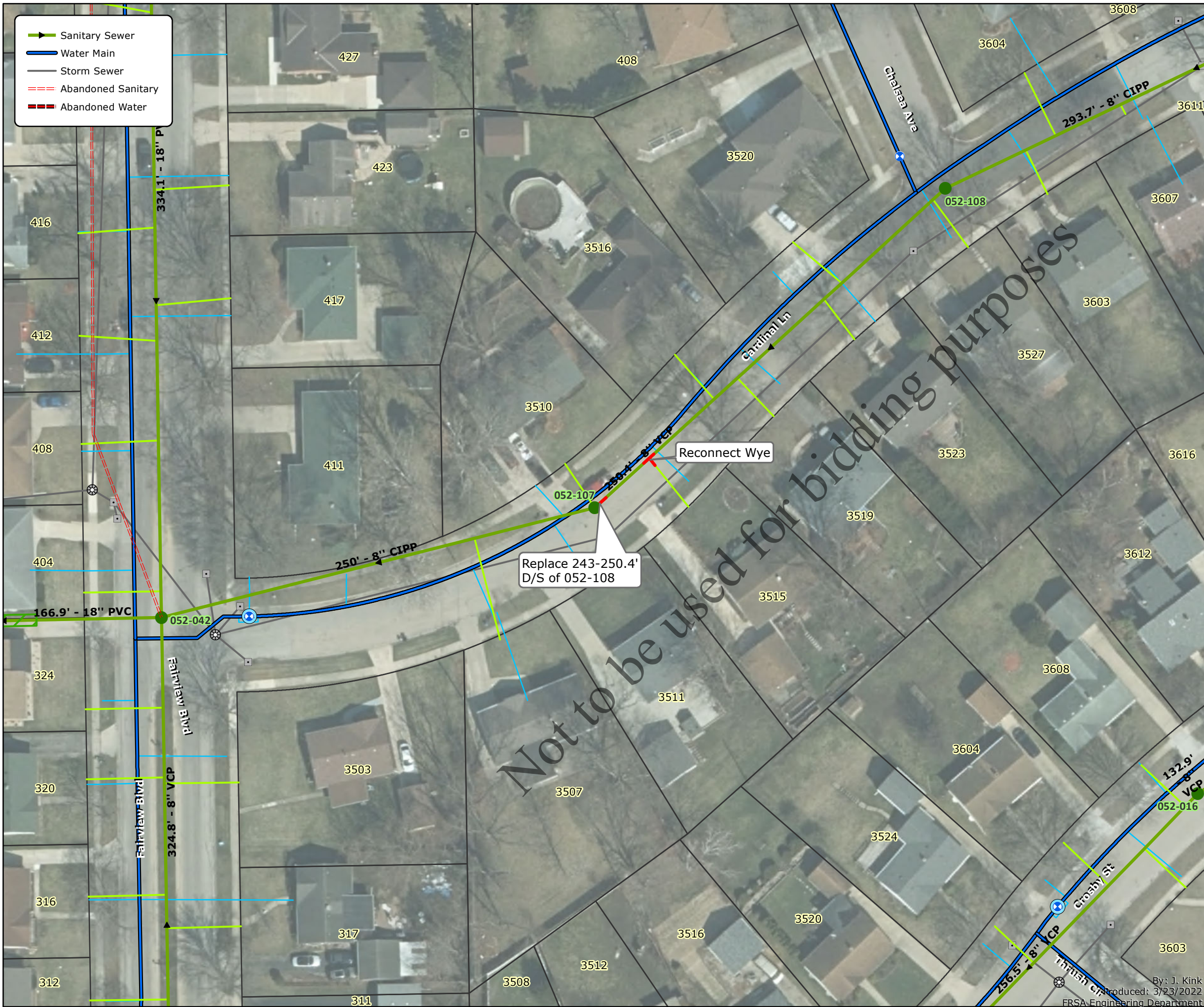
2

|   |        |         |  |   |
|---|--------|---------|--|---|
| B | 157.30 | 10 -    | Roots Fine Joint                                     | 1 |
| B | 164.70 | 12 - 12 | Broken   | 4 |
| B | 164.70 | -       | Repair Other Defective<br>BAD AMKRETE                | 0 |
| B | 165.40 | 4 -     | Roots Fine Joint                                     | 1 |
| B | 178.00 | 3 - 9   | Deposits Attached Encrust:                           | 2 |
| B | 180.50 | 3 - 9   | Deposits Attached Encrust:                           | 2 |
| B | 190.70 | -       | Repair Point Pipe Replaced<br>PVC                    | 0 |
| B | 201.00 | -       | Manhole<br>050055 - 5' dia. precast manhole 12/02/04 | 0 |

Rem./Replace 161'-168'

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.

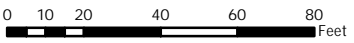
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall connect to existing MH 052107. Connection shall include a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.
2. Reconnect 3515 Cardinal Ln. with a new wye or tee fitting. FRSA crews previously installed a CO and pushed 4" PVC service pipe to the main.
3. Contractor shall protect existing 6" diameter water main. Any pipe damaged shall be repaired at the Contractor's expense.
4. 45 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 10**





**Report Date** Thursday, December 23, 2021 **Group Inspection #** 24322 **Page** 1

**Inspection #** 88479 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 052108 **To ID** SMH 052107 **Length** 250.40  
**Address** CARDINAL LN  
ROCKFORD IL  
**Location** @ CHELSEA AV

**Started** Friday, March 13, 2020 **Weather** 1 **Reverse Setup** ☐  
**Completed** Friday, March 13, 2020 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 052

**Survey Length** 250.40 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>  | <u>Severity</u> |
|--------------|-------------|-----------------|--|-----------------|
| B            | 0.00        | -               | Manhole<br>052108  | 0               |
| B            | 0.00        | -               | Water Level  | 0               |
| B            | 3.00        | 8 - 4           | Roots Fine Joint   | 1               |
| B            | 5.00        | 8 - 4           | Roots Fine Joint   | 1               |
| B            | 9.40        | 9 -             | Defective factory made tap<br>VCP, INTRUDING SERVICE WITH MEDIUM ROOTS AROUND AND IN SERVICE | 3               |
| B            | 11.10       | 7 - 10          | Roots Tap Joint  | 2               |
| B            | 14.00       | 8 - 9           | Roots Fine Joint   | 1               |
| B            | 16.80       | 1 - 5           | Roots Fine Joint   | 1               |
| B            | 19.70       | 8 - 4           | Roots Fine Joint   | 1               |
| B            | 23.10       | 8 - 4           | Roots Fine Joint   | 1               |
| B            | 30.30       | 9 -             | Tap Factory Abandoned<br>VCP, MEDIUM ROOTS IN SERVICE  | 0               |
| B            | 32.30       | 8 - 9           | Roots Fine Joint   | 1               |
| B            | 63.20       | 1 - 5           | Roots Fine Joint   | 1               |

|                    |                             |                           |       |             |   |
|--------------------|-----------------------------|---------------------------|-------|-------------|---|
| <b>Report Date</b> | Thursday, December 23, 2021 | <b>Group Inspection #</b> | 24322 | <b>Page</b> | 2 |
|--------------------|-----------------------------|---------------------------|-------|-------------|---|

|   |        |        |   |   |
|---|--------|--------|---|---|
| B | 69.30  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 72.50  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 73.60  | 3 -    | Defective factory made tap<br>VCP, MEDIUM ROOTS IN SERVICE      | 3 |
| B | 75.40  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 78.60  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 81.80  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 84.60  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 85.80  | 9 -    | Defective factory made tap<br>VCP, MEDIUM ROOTS IN SERVICE      | 3 |
| B | 91.00  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 94.00  | 8 - 4  | Roots Fine Joint  | 1 |
| B | 97.10  | 12 - 6 | Roots Fine Joint  | 1 |
| B | 100.20 | 1 - 5  | Roots Fine Joint  | 1 |
| B | 103.60 | 8 - 4  | Roots Fine Joint  | 1 |
| B | 109.80 | 12 -   | Roots Fine Joint  | 1 |
| B | 119.10 | 9 - 3  | Roots Fine Joint  | 1 |
| B | 122.00 | 8 - 4  | Roots Fine Joint  | 1 |
| B | 125.10 | 8 - 4  | Roots Fine Joint  | 1 |
| B | 143.70 | 8 - 9  | Roots Fine Joint  | 1 |
| B | 147.80 | 9 -    | Defective factory made tap<br>VCP, HEAVY ROOTS BLOCKING SERVICE | 3 |
| B | 153.10 | 3 - 4  | Roots Tap Joint   | 2 |
| B | 163.20 | 3 -    | Defective factory made tap<br>VCP, MEDIUM ROOTS IN SERVICE      | 3 |
| B | 174.60 | 7 - 10 | Roots Fine Joint  | 1 |
| B | 177.60 | 1 - 5  | Roots Fine Joint  | 1 |

**Report Date** Thursday, December 23, 2021

**Group Inspection #**

24322

**Page**

3

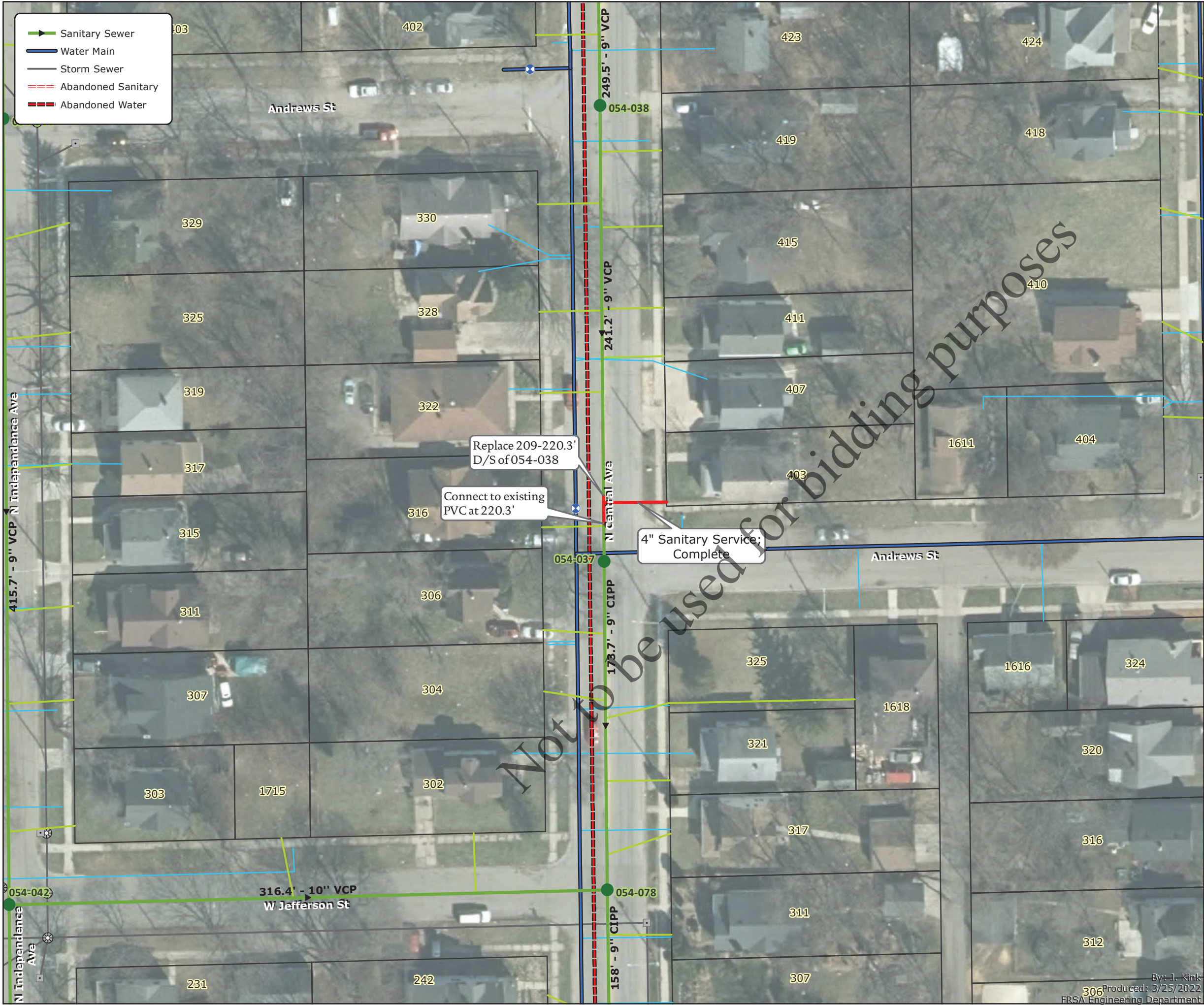
|   |        |        |  |   |  |
|---|--------|--------|--|---|--|
| B | 187.00 | 7 - 10 | Roots Fine Joint   | 1 |  |
| B | 193.50 | 1 - 5  | Roots Fine Joint   | 1 |  |
| B | 209.00 | 8 - 10 | Roots Tap Joint  | 2 |  |
| B | 209.90 | 9 -    | Tap Rehabilitated Defective  | 3 |  |
|   |        |        | 3515 Cardinal Ln - 4" PVC pushed with c/o installed on 4/27/06 - ROOTS BLOCKING FLOW |   |  |
| B | 224.30 | 8 - 4  | Roots Fine Joint   | 1 |  |
| B | 246.20 | 10 - 2 | Hole Void Visible  | 5 |  |
|   |        |        | PIPE MISSING   |   |  |
| B | 250.40 | -      | Manhole  | 0 |  |
|   |        |        | 052107   |   |  |

Reconnect 3515 Cardinal Ln.  
w/ new wye.

Rem./Replace 243' - 250.4'  
connect to MH 052107  
estimated depth = 8' (GIS  
record)

Not to be used for bidding





**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.

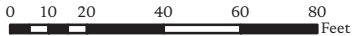
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor may sleeve new 4" diameter PVC service pipe through 6" diameter VCP service pipe as conditions allow.
2. 45 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA BC placed on 12" of compacted aggregate base course.
3. 32 SF of PCC sidewalk removal and replacement is estimated. Minimum thickness is 4".

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

**Capital Project #2354 - Map 11**



By: J. Kink  
Produced: 3/25/2022  
FRSA Engineering Department



Report Date Monday, January 3, 2022 Group Inspection # 16343 Page 1

Inspection # 75330 Activity TVINSP - Main TV Inspection

From ID SMH 054038 To ID SMH 054037 Length 241.20

Address 419 CENTRAL AVE  
ROCKFORD IL

Location

Started Thursday, September 21, 2017 Weather SUNNY+85 Reverse Setup ☐  
Completed Thursday, September 21, 2017 Both Directions Setup ☐  
Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐  
Project 054

Survey Length 244.20 Survey Diam 9.00 UP Depth 9.90 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup   | From  | Position | Observation / Comments                       | Severity                     |
|---|-------|----------|--|------------------------------|
| B   | 0.00  | -        | MANHOLE                                      | UPSTREAM MANHOLE             |
| B   | 23.60 | 3 -      | BROKEN JOINT                                 | BRK JT - LIGHT               |
| B   | 29.30 | 9 -      | LATERAL<br>VCP                               | PLUMBER SERVICE - LEFT       |
| B   | 29.80 | 9 -      | OTHER<br>MEDIUM PATCHED PIPE NEXT TO SERVICE | OTHER                        |
| B   | 36.00 | 9 -      | BROKEN JOINT                                 | BRK JT - MEDIUM              |
| B   | 53.70 | 3 -      | LATERAL<br>VCP                               | PLUMBER SERVICE - RIGHT      |
| B   | 55.10 | 3 -      | LATERAL<br>VCP                               | SERVICE CONNECTION CAPPED    |
| B   | 63.70 | -        | ROOTS  | ROOTS-LIGHT                  |
| B   | 66.60 | 2 - 6    | BROKEN JOINT                                 | BRK JT - LIGHT               |
| B   | 67.50 | 10 -     | LATERAL<br>VCP                               | PLUMBER SERVICE - LEFT       |
| B   | 84.90 | -        | ROOTS  | ROOTS-LIGHT                  |
| B   | 85.80 | 9 -      | LATERAL<br>VCP                               | SERVICE CONNECTION CAPPED    |
| B   | 96.90 | -        | STRUCTURAL                                   | PIPE MATERIAL CHANGES TO PVC |
| Point repair completed by Anderson Underground. 11/7/06 |       |          |  |                              |



**Report Date** Monday, January 3, 2022

**Group Inspection #**

16343

**Page**

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|   |        |        |   |                              |
|---|--------|--------|---|------------------------------|
| B | 102.30 | 3 -    | LATERAL<br>PVC  | FACTORY SERVICE - RIGHT      |
| B | 107.70 | -      | STRUCTURAL  | PIPE MATERIAL CHANGES TO VCP |
| B | 136.60 | 9 -    | LATERAL<br>VCP HEAVY DEBRIS FALLING INTO MAINLINE             | FACTORY SERVICE - LEFT       |
| B | 137.20 | 10 -   | LATERAL<br>VCP  | PROTRUDING SERVICE 0"-1"     |
| B | 154.10 | 3 -    | LATERAL<br>VCP  | PROTRUDING SERVICE 0"-1"     |
| B | 158.30 | 9 -    | BROKEN JOINT  | BRK JT - MEDIUM              |
| B | 164.60 | 2 -    | LATERAL<br>VCP  | SERVICE CONNECTION CAPPED    |
| B | 176.40 | 9 -    | BROKEN JOINT  | BRK JT - LIGHT               |
| B | 183.60 | 8 - 10 | BROKEN JOINT  | BRK JT - LIGHT               |
| B | 184.90 | 10 -   | LATERAL<br>VCP  | SERVICE CONNECTION CAPPED    |
| B | 196.00 | 8 - 11 | BROKEN JOINT  | BRK JT - MEDIUM              |
| B | 209.20 | 6 - 9  | BROKEN JOINT  | BRK JT - HEAVY               |
| B | 210.00 | 10 -   | LATERAL<br>VCP  | PLUMBER SERVICE - LEFT       |
| B | 210.40 | 3 -    | LATERAL<br>VCP  | SERVICE CONNECTION CAPPED    |
| B | 220.30 | -      | STRUCTURAL<br>Point repair completed by Anderson Underground. | PIPE MATERIAL CHANGES TO PVC |
| B | 226.80 | 1 -    | LATERAL<br>PVC  | FACTORY SERVICE - RIGHT      |
| B | 230.00 | -      | STRUCTURAL  | PIPE MATERIAL CHANGES TO VCP |
| B | 244.20 | -      | MANHOLE   | DOWNSTREAM MANHOLE           |

Rem./Replace  
209'-220.3'.  
Replace Service to  
403 N. Central, incl.  
new wye and CO.





**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 may sleeve new 4" diameter PVC service pipe through existing 6" diameter VCP service pipe where conditions allow.
2. 65 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
3. 32 SF of PCC sidewalk removal and replacement is estimated. Minimum sidewalk thickness is 4.0".
4. 12 LF of PCC curb and gutter removal and replacement is estimated.

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

**Capital Project #2354 - Map 12**



**Report Date** Monday, January 3, 2022 **Group Inspection #** 5123 **Page** 1

**Inspection #** 61117 **Activity** TVINSP - Main TV Inspection

**From ID** SMH 062037 **To ID** SMH 062034 **Length** 473.10

**Address** CAMP AVE  
ROCKFORD IL

**Location** @ LOGAN ST

**Started** Friday, August 16, 2013 **Weather** **Reverse Setup** ☐  
**Completed** Friday, August 16, 2013 **Both Directions Setup** ☐  
**Comp By** 0057 LARRY R PIERCE **Prone to Blown Toilet** ☐  
**Project** 062

**Survey Length** 473.10 **Survey Diam** 9.00 **UP Depth** 10.10 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments** 0

#### Observations

| Setup | From   | Position | Observation / Comments  | Severity                     |
|-------|--------|----------|---|------------------------------|
| B     | 0.00   | -        | MANHOLE   | UPSTREAM MANHOLE             |
|       |        |          | District crews installed new 4" dia. precast manhole 08/15/13 |                              |
| B     | 0.10   | -        | STRUCTURAL  | PIPE MATERIAL CHANGES TO PVC |
| B     | 6.00   | -        | STRUCTURAL  | PIPE MATERIAL CHANGES TO VCP |
| B     | 34.90  | 4 - 7    | BROKEN JOINT  | BRK JT - LIGHT               |
| B     | 47.30  | 4 - 7    | BROKEN JOINT  | BRK JT - LIGHT               |
| B     | 62.30  | 9 -      | LATERAL   | PLUMBER SERVICE - LEFT       |
| B     | 65.50  | 12 -     | LATERAL   | SERVICE CONNECTION CAPPED    |
| B     | 66.80  | 4 - 6    | BROKEN JOINT  | BRK JT - LIGHT               |
| B     | 76.10  | 9 -      | LATERAL   | SERVICE CONNECTION CAPPED    |
| B     | 78.20  | 12 -     | LATERAL   | PLUMBER SERVICE - CROWN      |
|       |        |          | RISER   |                              |
| B     | 78.20  | 3 -      | LATERAL   | SERVICE CONNECTION CAPPED    |
| B     | 90.30  | 10 -     | LATERAL   | PLUMBER SERVICE - LEFT       |
| B     | 102.10 | -        | ALIGNMENT   | SAG BEGINS                   |

**Report Date** Monday, January 3, 2022

**Group Inspection #**

5123

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2

|   |        |        |              |   |
|---|--------|--------|--------------|---|
| B | 119.50 | 9 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 121.00 | 3 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 137.00 | 9 -    | LATERAL      | PLUMBER SERVICE - LEFT  |
| B | 140.60 | -      | ALIGNMENT    | SAG ENDS MEDIUM   |
| B | 166.80 | -      | ROOTS        | ROOTS-LIGHT   |
| B | 173.00 | -      | STRUCTURAL   | PIPE MATERIAL CHANGES TO PVC<br>District crews completed point repair 06/08/11                                      |
| B | 181.50 | 2 -    | LATERAL      | FACTORY SERVICE - RIGHT<br>1626 Camp Ave-District crews pushed 4" pvc pipe with c/o @ pl New wye @ main<br>06/08/11 |
| B | 185.90 | -      | STRUCTURAL   | PIPE MATERIAL CHANGES TO VCP  |
| B | 214.50 | -      | ROOTS        | ROOTS-LIGHT   |
| B | 226.10 | 9 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 228.10 | 3 -    | LATERAL      | FACTORY SERVICE - RIGHT<br>MEDIUM ROOTS   |
| B | 243.80 | 11 -   | LATERAL      | PLUMBER SERVICE - LEFT<br>LIGHT ROOTS   |
| B | 265.70 | 2 -    | LATERAL      | PLUMBER SERVICE - RIGHT   |
| B | 271.30 | 3 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 273.30 | 9 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 316.40 | 12 -   | LATERAL      | PLUMBER SERVICE - CROWN   |
| B | 318.50 | 3 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 320.50 | 9 -    | LATERAL      | SERVICE CONNECTION CAPPED   |
| B | 327.40 | 8 - 10 | BROKEN JOINT | BRK JT - LIGHT  |
| B | 329.30 | 12 -   | LATERAL      | PLUMBER SERVICE CROWN   |
| B | 342.40 | -      | ALIGNMENT    | SAG BEGINS  |
| B | 351.20 | -      | ALIGNMENT    | SAG ENDS HEAVY  |
| B | 360.00 | 11 -   | LATERAL      | PLUMBER SERVICE - LEFT  |

Rem./Replace  
327'-358'.  
Replace Service to  
1611 Camp, incl.  
new wye & CO.

**Report Date** Monday, January 3, 2022

**Group Inspection #**

5123

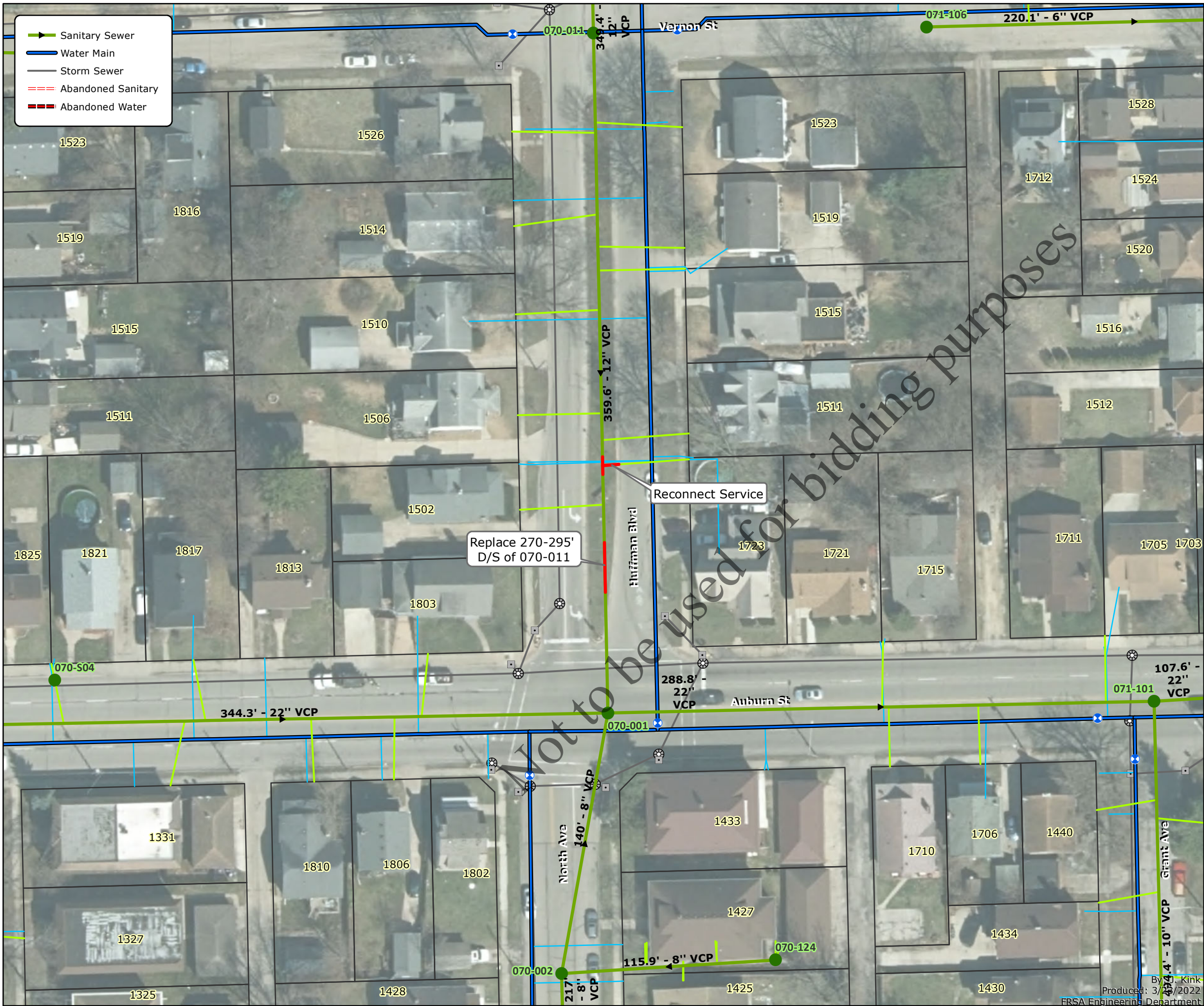
**Page**

3

|   |        |        |   |                              |
|---|--------|--------|---|------------------------------|
| B | 362.20 | 2 -    | LATERAL   | PLUMBER SERVICE - RIGHT      |
| B | 369.70 | 3 -    | LATERAL   | SERVICE CONNECTION CAPPED    |
| B | 371.80 | 9 -    | LATERAL   | SERVICE CONNECTION CAPPED    |
| B | 385.30 | -      | ROOTS   | ROOTS-LIGHT                  |
| B | 399.70 | -      | ROOTS   | ROOTS-LIGHT                  |
| B | 413.80 | 12 -   | LATERAL   | PLUMBER SERVICE - CROWN      |
|   |        |        | 305 Sherman St-District crews pushed 4" pvc pipe with c/o @ pl 07/11/12 Shares with 309 Sherman St. |                              |
| B | 423.50 | 3 -    | LATERAL   | SERVICE CONNECTION CAPPED    |
| B | 425.80 | 9 -    | LATERAL   | SERVICE CONNECTION CAPPED    |
| B | 429.90 | 1 -    | LATERAL   | PLUMBER SERVICE - RIGHT      |
| B | 451.30 | 9 - 10 | BROKEN JOINT  | BRK JT - LIGHT               |
| B | 452.50 | -      | STRUCTURAL  | PIPE MATERIAL CHANGES TO PVC |
|   |        |        | District crews completed point repair 06/10/11  |                              |
| B | 473.10 | -      | MANHOLE   | DOWNSTREAM MANHOLE           |
|   |        |        | District crews installed new 4' dia. precast manhole 08/24/12                                       |                              |

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.

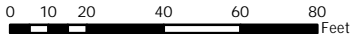
**Roadway Authority:** City of Rockford

#### Site Specific Considerations and Estimated Incidental Work Items:

1. Reconnect service to 1723 Auburn with a new saddle tee fitting. FRSA crews previously installed a CO and pushed 4" PVC to the main.
2. Contractor shall protect existing "North End Square" signage.
3. Contractor shall remove and reinstall existing lamp post if necessary to complete work. Coordinate with the City of Rockford Street Department at 779.348.7260.
4. Contractor shall coordinate any tree trimming or removal with the City of Rockford Forestry Department at 779.348.7260.
5. 36 LF of PCC curb and gutter removal and replacement is estimated.
6. 12 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA BC placed on 12" of compacted aggregate base course.

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

#### Capital Project #2354 - Map 13



By: J. Kink  
Produced: 3/27/2022  
FRSA Engineering Department



**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 24942 **Page** 1

**Inspection #** 89391 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 070011 **To ID** SMH 070001 **Length** 359.60  
**Address** HUFFMAN BLVD  
ROCKFORD IL  
**Location** @ VERNON ST

**Started** Thursday, April 9, 2020 **Weather** 1 **Reverse Setup** ☐  
**Completed** Thursday, April 9, 2020 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 070

**Survey Length** 359.60 **Survey Diam** 12.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>                                     | <u>Severity</u> |
|--------------|-------------|-----------------|---|-----------------|
| B            | 0.00        | -               | Manhole 070011  | 0               |
| B            | 0.00        | -               | Water Level   | 0               |
| B            | 1.00        | 12 - 12         | Fracture Multiple FIRST PIPE OUT OF MANHOLE                       | 4               |
| B            | 35.30       | 8 - 9           | Roots Fine Joint  | 1               |
| B            | 42.10       | 1 - 5           | Roots Fine Joint  | 1               |
| B            | 43.40       | 10 -            | Capped factory made tap VCP                                       | 0               |
| B            | 47.00       | 8 - 9           | Roots Fine Joint  | 1               |
| B            | 49.80       | 8 - 9           | Roots Fine Joint  | 1               |
| B            | 50.60       | 10 -            | Tap Break-in Defective VCP, LIGHT ROOTS AT SERVICE CONNECTION     | 3               |
| B            | 52.20       | 3 - 9           | Roots Fine Joint  | 1               |
| B            | 53.30       | 10 -            | Capped factory made tap VCP                                       | 0               |
| B            | 56.40       | 2 -             | Tap Break-in Intruding VCP, LIGHT ROOTS AROUND SERVICE CONNECTION | 2               |
| B            | 59.50       | 3 - 9           | Roots Fine Joint  | 1               |

**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 24942 **Page** 2

|   |        |       |  |   |
|---|--------|-------|--|---|
| B | 62.20  | 5 -   | Roots Fine Joint   | 1 |
| B | 64.70  | 3 - 9 | Roots Fine Joint   | 1 |
| B | 69.50  | 3 - 9 | Roots Fine Joint   | 1 |
| B | 98.40  | 2 -   | Defective factory made tap   | 3 |
|   |        |       | 1514 Huffman Blvd - 4" PVC pushed on 9/2/05 - VCP LIGHT ROOTS IN SERVICE   |   |
| B | 103.50 | 10 -  | Capped factory made tap  | 0 |
|   |        |       | VCP  |   |
| B | 105.00 | 9 - 3 | Roots Fine Joint   | 1 |
| B | 115.70 | 11 -  | Tap Break-in Active  | 0 |
|   |        |       | VCP  |   |
| B | 128.30 | 11 -  | Tap Break-in Intruding   | 2 |
|   |        |       | VCP  |   |
| B | 148.60 | 3 -   | Tap; factory made active   | 0 |
|   |        |       | VCP  |   |
| B | 153.70 | 10 -  | Capped factory made tap  | 0 |
|   |        |       | VCP  |   |
| B | 157.60 | 7 - 9 | Roots Fine Joint   | 1 |
| B | 198.10 | 7 - 8 | Roots Fine Joint   | 1 |
| B | 199.40 | 2 -   | Capped factory made tap  | 0 |
|   |        |       | VCP  |   |
| B | 202.50 | 2 -   | Tap Break-in Active  | 0 |
|   |        |       | VCP, LIGHT ROOTS AROUND SERVICE CONNECTION   |   |
| B | 210.30 | 3 - 9 | Roots Fine Joint   | 1 |
| B | 212.80 | 3 - 9 | Roots Fine Joint   | 1 |
| B | 216.80 | 9 -   | Tap; saddle  | 0 |
|   |        |       | 1511 New 4" PVC service installed with c/o at pl and saddle tee at main on 5/12/05.  |   |
|   |        |       | Shares with 1723 Auburn St   |   |
| B | 217.90 | 3 - 9 | Roots Fine Joint   | 1 |
| B | 225.10 | 3 - 9 | Roots Fine Joint   | 1 |
| B | 229.60 | 9 -   |  | 0 |
|   |        |       | 1723 Auburn St - 4" PVC pushed with c/o installed at pl on 5/9/05. Shares with 1511 Huffman Blvd - LIGHT ROOTS AROUND SERVICE CONNECTION |   |
| B | 230.50 | 3 - 9 | Roots Fine Joint   | 1 |
| B | 232.70 | 3 - 9 | Roots Fine Joint   | 1 |

Reconnect 1723 w/ saddle tee.

**Report Date** Wednesday, March 16, 2022

**Group Inspection #**

24942

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|   |        |       |   |   |
|---|--------|-------|---|---|
| B | 248.30 | 3 - 9 | Roots Fine Joint                                      | 1 |
| B | 250.00 | 2 -   | Tap Break-in Active                                   | 0 |
|   |        |       | VCP, LIGHT ROOTS AT SERVICE CONNECTION                |   |
| B | 270.80 | 1 - 5 | Roots Fine Joint                                      | 1 |
| B | 272.00 | -     | Water Level Sag                                       | 2 |
| B | 285.90 | -     | Water Level Sag                                       | 2 |
| B | 353.80 | -     | Material Change                                       | 0 |
|   |        |       | PVC, FOR NEW MANHOLE                                  |   |
| B | 359.60 | -     | Manhole   | 0 |
|   |        |       | 070001 - New 5' diameter manhole installed on 4/29/09 |   |

Rem./Replace 270'-295'

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.

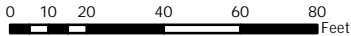
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Reconnect service to 2119 N. Church with new wye or tee fitting. FRSA crews previously pushed 4" PVC to the main.
2. Contractor may sleeve new 4" diameter PVC through 6" diameter VCP pipe as conditions allow.
3. 75 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA BC placed on 12" of compacted aggregate base course.
4. 16 LF of PCC curb and gutter removal and replacement is estimated.
5. 64 SF of PCC sidewalk removal and replacement is estimated. Minimum sidewalk thickness is 4.0".

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

**Capital Project #2354 - Map 14**





**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 7162 **Page** 1

**Inspection #** 63429 **Activity** TVINSP - Main TV Inspection

**From ID** SMH 071071 **To ID** SMH 071069 **Length** 379.10

**Address** N CHURCH ST  
ROCKFORD IL

**Location** @ BROWN AV

**Started** Monday, June 23, 2014 **Weather** **Reverse Setup** ☐  
**Completed** Monday, June 23, 2014 **Both Directions Setup** ☐  
**Comp By** 0057 LARRY R PIERCE **Prone to Blown Toilet** ☐  
**Project** 071

**Survey Length** 379.10 **Survey Diam** 10.00 **UP Depth** 8.80 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>                                       | <u>Severity</u>              |
|--------------|-------------|-----------------|---|------------------------------|
| B            | 0.00        | -               | MANHOLE<br>District crews installed new 4" dia. manhole on 5/29/14. | UPSTREAM MANHOLE             |
| B            | 0.10        | -               | STRUCTURAL  | PIPE MATERIAL CHANGES TO PVC |
| B            | 7.30        | -               | STRUCTURAL  | PIPE MATERIAL CHANGES TO VCP |
| B            | 34.00       | 3 -             | LATERAL   | PLUMBER SERVICE - RIGHT      |
| B            | 35.60       | 9 -             | LATERAL   | SERVICE CONNECTION CAPPED    |
| B            | 36.70       | 9 -             | LATERAL   | PLUMBER SERVICE - LEFT       |
| B            | 48.10       | 3 -             | LATERAL   | SERVICE CONNECTION CAPPED    |
| B            | 88.20       | 3 -             | LATERAL   | PROTRUDING SERVICE 0"-1"     |
| B            | 108.70      | 3 -             | LATERAL   | SERVICE CONNECTION CAPPED    |
| B            | 114.40      | 3 -             | LATERAL   | SERVICE CONNECTION CAPPED    |
| B            | 116.50      | 9 -             | LATERAL   | PLUMBER SERVICE - LEFT       |
| B            | 125.30      | 3 -             | LATERAL   | ABANDONED CONNECTION         |
| B            | 126.40      | 3 -             | LATERAL   | PROTRUDING SERVICE 0"-1"     |

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**Group Inspection #**

7162

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B 151.50 9 - LATERAL SERVICE CONNECTION CAPPED

B 152.50 10 - LATERAL PLUMBER SERVICE - LEFT

2119 N. Church Street - District crews pushed 4" PVC pipe on 9/20/91.

B 155.50 3 - LATERAL SERVICE CONNECTION CAPPED

B 200.40 9 - LATERAL SERVICE CONNECTION CAPPED

B 204.50 9 - LATERAL PLUMBER SERVICE - LEFT

2115 N. Church Street - District crews pushed 4" PVC pipe for plumber and installed c.o. at property line. 1/26/10 Installed saddle tee on 4/16/14.

B 204.50 3 - LATERAL SERVICE CONNECTION CAPPED

B 225.30 3 - LATERAL PLUMBER SERVICE - RIGHT

B 236.40 - STRUCTURAL POINT REPAIR - BEGIN

AMKRETE REPAIR

B 238.10 - STRUCTURAL POINT REPAIR - END

B 238.80 12 - LATERAL PLUMBER SERVICE - CROWN

MEDIUM ROOTS

B 241.50 9 - LATERAL SERVICE CONNECTION CAPPED

B 258.40 3 - LATERAL SERVICE CONNECTION CAPPED

B 275.10 3 - LATERAL PLUMBER SERVICE - RIGHT

B 293.70 9 - LATERAL SERVICE CONNECTION CAPPED

B 295.30 10 - LATERAL PLUMBER SERVICE - LEFT

B 297.80 3 - LATERAL SERVICE CONNECTION CAPPED

B 322.90 3 - LATERAL PLUMBER SERVICE - RIGHT

B 332.90 9 - LATERAL SERVICE CONNECTION CAPPED

B 336.60 9 - LATERAL PLUMBER SERVICE - LEFT

B 336.90 3 - LATERAL SERVICE CONNECTION CAPPED

B 377.10 - STRUCTURAL PIPE MATERIAL CHANGES TO PVC

B 379.10 - MANHOLE DOWNSTREAM MANHOLE

District crews installed new 4' dia. manhole on 1/30/01.

Reconnect 2119  
N. Church w/ new  
wye.

Rem./Replace  
235'-243'. Replace  
Service to 2109  
Church w/ new  
wye and CO.

Replace Service to  
2110 Church w/  
new wye and CO.

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.

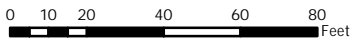
**Roadway Authority:** Loves Park

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall coordinate with local businesses to maintain access for the duration of construction.
2. 54 SY of PCC pavement removal and replacement is estimated. Minimum PCC Pavement thickness is 12.0" placed on 12" of compacted base course aggregate.
3. 24 SY of HMA driveway pavement removal and replacement is estimated. Minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
4. 120 SF of PCC sidewalk removal and replacement is estimated. Minimum sidewalk thickness

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

**Capital Project #2354 - Map 15**





|  |                                |               |
|--|--------------------------------|---------------|
| <b>Report Date</b> Wednesday, March 16, 2022 | <b>Group Inspection #</b> 1400 | <b>Page</b> 1 |
|--|--------------------------------|---------------|

|   |   |
|---|---|
| <b>Inspection #</b> 56635                       | <b>Activity</b> TVINSP - Main TV Inspection                                     |
| <b>From ID</b> SMH 099014                       | <b>To ID</b> SMH 099013 <span style="float: right;"><b>Length</b> 274.90</span> |
| <b>Address</b> 1600 WINDSOR RD<br>LOVES PARK IL |   |
| <b>Location</b> TERRACE                         |   |

|   |                |  |  |
|---|----------------|--|--|
| <b>Started</b> Thursday, April 12, 2012   | <b>Weather</b> | <b>Reverse Setup</b> <input type="checkbox"/>                    |  |
| <b>Completed</b> Thursday, April 12, 2012 |                | <b>Both Directions Setup</b> <input type="checkbox"/>            |  |
| <b>Comp By</b> 0057 LARRY R PIERCE        |                | <b>Prone to Blown Toilet</b> <input checked="" type="checkbox"/> |  |
| <b>Project</b> 099                        |                |  |  |

|                             |                         |                      |                       |                      |
|-----------------------------|-------------------------|----------------------|-----------------------|----------------------|
| <b>Survey Length</b> 274.90 | <b>Survey Diam</b> 8.00 | <b>UP Depth</b> 3.70 | <b>DWN Depth</b> 0.00 | <b>Pipe Type</b> VCP |
|-----------------------------|-------------------------|----------------------|-----------------------|----------------------|

**Comments**

#### Observations

| Setup | From   | Position | Observation / Comments | Severity                 |                        |
|-------|--------|----------|------------------------|--------------------------|------------------------|
| B     | 0.00   | -        | MANHOLE                | UPSTREAM MANHOLE         |                        |
| B     | 113.50 | 10 -     | LATERAL CIP            | PROTRUDING SERVICE 0"-1" |                        |
| B     | 148.20 | 4 - 10   | BROKEN JOINT           | BRK JT - HEAVY           | Rem./Replace 146'-149' |
| B     | 172.80 | 2 - 6    | STRUCTURAL             | HOLE IN PIPE             | Rem./Replace 171'-174' |
| B     | 183.10 | 7 - 10   | BROKEN JOINT           | BRK JT - LIGHT           |                        |
| B     | 194.00 | -        | ALIGNMENT              | SAG BEGINS               |                        |
| B     | 199.30 | -        | ALIGNMENT              | SAG ENDS LIGHT           |                        |
| B     | 274.90 | -        | MANHOLE                | DOWNSTREAM MANHOLE       |                        |





**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.

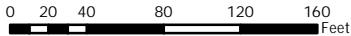
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall coordinate with local businesses to maintain access for the duration of construction.

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

**Capital Project #2354 - Map 16**





**Report Date** Monday, January 3, 2022 **Group Inspection #** 28342 **Page** 1

**Inspection #** 95614 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 104016 **To ID** SMH 104015 **Length** 402.80

**Address** 5127 28TH AVE  
ROCKFORD IL

**Location**

**Started** Tuesday, August 24, 2021 **Weather** 1 **Reverse Setup** ☐  
**Completed** Tuesday, August 24, 2021 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 104

**Survey Length** 402.80 **Survey Diam** 12.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| Setup | From   | Position | Observation / Comments              | Severity |
|-------|--------|----------|-------------------------------------|----------|
| B     | 0.00   | -        | Manhole 104016                      | 0        |
| B     | 0.00   | -        | Water Level                         | 0        |
| B     | 101.80 | 9 -      | Tap; factory made active            | 0        |
| B     | 107.50 | 9 - 3    | FOUR INCH GAS Broken                | 4        |
| B     | 109.00 | 3 -      | Defective factory made tap          | 3        |
| B     | 110.20 | 9 - 3    | SOIL FALLING IN Broken Soil Visible | 5        |
| B     | 161.30 | 4 - 6    | Fracture Spiral                     | 3        |
| B     | 167.40 | 12 -     | Fracture Longitudinal               | 3        |
| B     | 171.30 | 3 - 9    | Fracture Spiral                     | 3        |
| B     | 233.10 | 12 - 3   | Crack Spiral                        | 2        |
| B     | 249.00 | 12 - 12  | Broken                              | 4        |
| B     | 255.70 | 9 -      | Tap; factory made active            | 0        |
| B     | 262.80 | 3 -      | Tap; factory made active            | 0        |

Rem./Replace 106'-111'

Rem./Replace 248'-257'  
Reconnect 5055 28th Ave. w/  
new wye.

**Report Date** Monday, January 3, 2022**Group Inspection #**

28342

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|          |               |                |                                 |          |
|----------|---------------|----------------|---------------------------------|----------|
| <b>B</b> | <b>284.20</b> | <b>12 - 12</b> | <b>Broken</b>                   | <b>4</b> |
| <b>B</b> | <b>378.30</b> | <b>12 - 12</b> | <b>Broken</b>                   | <b>4</b> |
| <b>B</b> | <b>384.90</b> | <b>12 - 12</b> | <b>Fracture Spiral</b>          | <b>3</b> |
| <b>B</b> | <b>402.80</b> | <b>-</b>       | <b>Manhole</b><br><b>104015</b> | <b>0</b> |

Not to be used for bidding purposes



**Report Date** Monday, January 3, 2022 **Group Inspection #** 28342 **Page** 1

**Inspection #** 95612 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 104014 **To ID** SMH 104013 **Length** 400.30

**Address** 28TH AVE  
ROCKFORD IL

**Location**

**Started** Wednesday, August 25, 2021 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, August 25, 2021 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 104

**Survey Length** 400.30 **Survey Diam** 12.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u> | <u>Severity</u> |
|--------------|-------------|-----------------|-------------------------------|-----------------|
| B            | 0.00        | -               | Manhole 104014                | 0               |
| B            | 0.00        | -               | Water Level                   | 0               |
| B            | 18.20       | 6 - 12          | Fracture Spiral               | 3               |
| B            | 33.50       | 6 - 12          | Broken                        | 4               |
| B            | 38.50       | 6 - 1           | Fracture Spiral               | 3               |
| B            | 69.10       | 11 - 6          | Fracture Spiral               | 3               |
| B            | 109.70      | 12 - 12         | Fracture Circumferential      | 2               |
| B            | 116.70      | 9 -             | Facotry made tap              | 0               |
| B            | 123.50      | 3 -             | Tap; factory made active      | 0               |
| B            | 156.10      | 12 - 12         | Fracture Circumferential      | 2               |
| B            | 159.60      | 5 - 2           | Broken                        | 4               |
| B            | 159.60      | 3 -             | Roots Fine Joint              | 1               |
| B            | 175.40      | 12 - 12         | Fracture Circumferential      | 2               |

**Report Date** Monday, January 3, 2022

**Group Inspection #**

28342

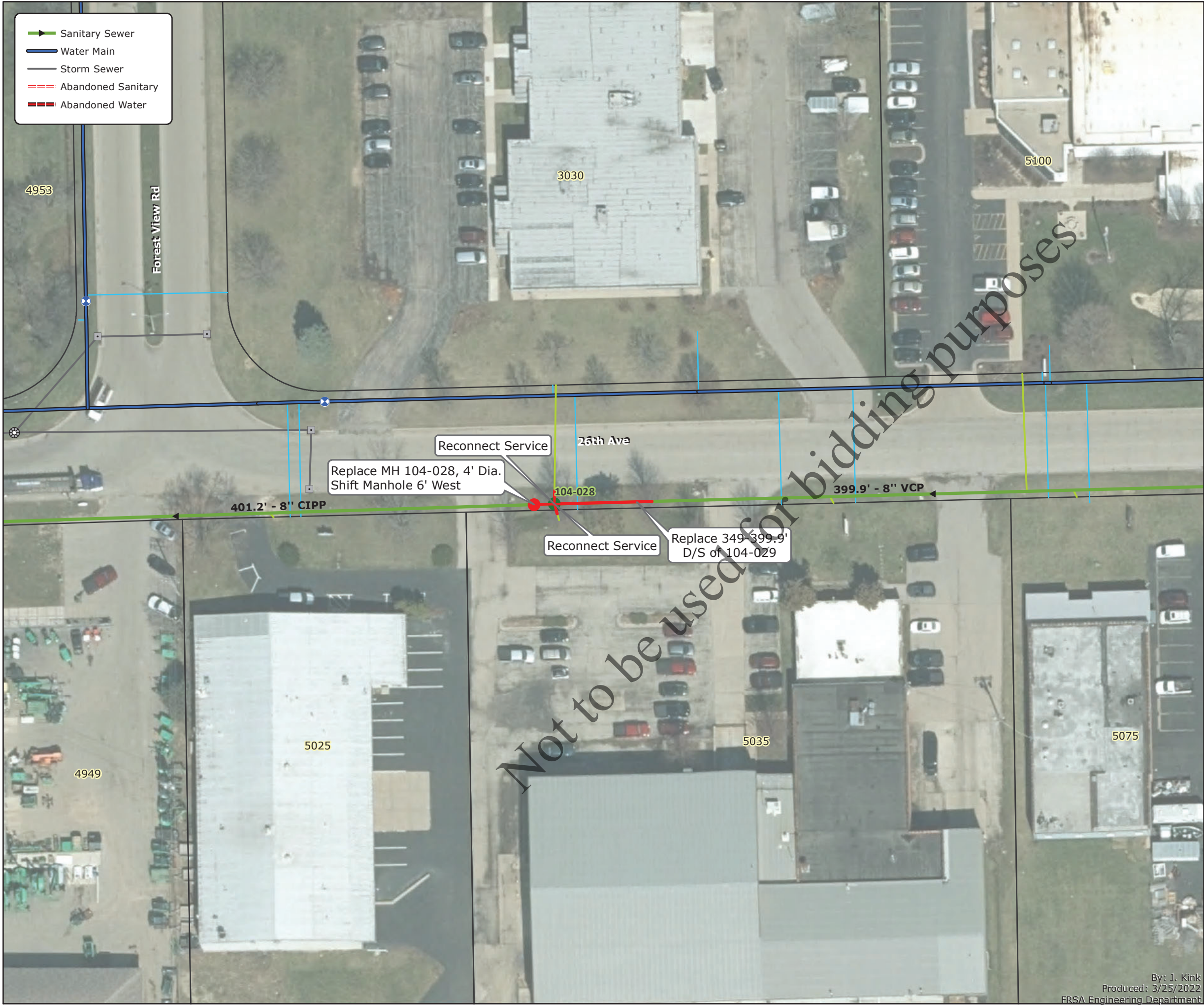
**Page**

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|   |        |         |                          |   |
|---|--------|---------|--------------------------|---|
| B | 175.40 | 12 - 12 | Roots Fine Joint         | 1 |
| B | 206.10 | 12 - 12 | Roots Medium Joint       | 3 |
| B | 206.90 | 6 - 12  | Broken                   | 4 |
| B | 211.30 | 12 - 12 | Roots Fine Joint         | 1 |
| B | 231.00 | 6 - 12  | Roots Medium Joint       | 3 |
| B | 231.10 | 12 - 6  | Fracture Spiral          | 3 |
| B | 244.00 | 12 - 12 | Broken                   | 4 |
| B | 254.80 | 12 - 12 | Broken                   | 4 |
| B | 261.70 | 12 - 6  | Fracture Spiral          | 3 |
| B | 276.60 | 6 - 12  | Roots Fine Joint         | 1 |
| B | 277.90 | 9 -     | Tap; factory made active | 0 |
| B | 277.90 | 7 - 5   | Roots Ball Connection    | 4 |
| B | 278.80 | 12 - 6  | Fracture Spiral          | 3 |
| B | 284.90 | 3 -     | Tap; factory made active | 0 |
| B | 286.80 | 12 - 6  | Fracture Spiral          | 3 |
| B | 290.50 | 12 - 6  | Fracture Spiral          | 3 |
| B | 372.20 | 12 - 6  | Fracture Spiral          | 3 |
| B | 373.30 | 9 -     | Tap; factory made active | 0 |
| B | 400.30 | -       | Manhole                  | 0 |
|   |        |         | 104013                   |   |

Rem./Replace 242'-258'





**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.

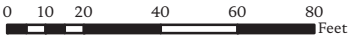
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall coordinate any tree trimming or removals with the City of Rockford Forestry Department at 779.348.7260.

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

**Capital Project #2354 - Map 17**





**Report Date** Tuesday, December 28, 2021 **Group Inspection #** 28342 **Page** 1

**Inspection #** 95626 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 104029 **To ID** SMH 104028 **Length** 399.90

**Address** 5107 26TH AVE  
ROCKFORD IL

**Location**

**Started** Tuesday, August 31, 2021 **Weather** 1 **Reverse Setup** ☐  
**Completed** Tuesday, August 31, 2021 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 104

**Survey Length** 399.90 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u> | <u>Severity</u> |
|--------------|-------------|-----------------|-------------------------------|-----------------|
| B            | 0.00        | -               | Manhole 104029                | 0               |
| B            | 0.00        | -               | Water Level                   | 0               |
| B            | 110.30      | 5 - 7           | Deposits Attached Grease      | 2               |
| B            | 126.50      | 9 -             | Tap; factory made active CAS  | 0               |
| B            | 127.30      | 5 - 7           | Deposits Attached Grease      | 2               |
| B            | 132.10      | 2 - 4           | Fracture Spiral               | 3               |
| B            | 134.40      |                 | Water Level                   | 0               |
| B            | 149.50      | 3 -             | Tap Break-in Active           | 0               |
| B            | 162.80      | 6 - 12          | Broken                        | 4               |
| B            | 253.80      | 9 -             | Tap; factory made active      | 0               |
| B            | 275.00      | 12 - 6          | Broken                        | 4               |
| B            | 320.30      | 12 - 12         | Roots Fine Joint              | 1               |
| B            | 324.30      | 12 - 12         | Roots Medium Joint            | 3               |



**Report Date** Tuesday, December 28, 2021

**Group Inspection #**

28342

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|   |        |         |                    |   |
|---|--------|---------|--------------------|---|
| B | 328.40 | 12 - 12 | Roots Medium Joint | 3 |
| B | 332.60 | 12 -    | Roots Medium Joint | 3 |
| B | 336.70 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 341.00 | 12 - 12 | Roots Medium Joint | 3 |
| B | 344.80 | 12 - 12 | Roots Medium Joint | 3 |
| B | 349.30 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 353.40 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 357.40 | 11 -    | Roots Medium Joint | 3 |
| B | 361.50 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 366.10 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 369.90 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 373.80 | 12 - 12 | Roots Fine Joint   | 1 |
| B | 377.60 | 12 - 12 | Roots Medium Joint | 3 |
| B | 382.30 | 12 - 12 | Roots Medium Joint | 3 |
| B | 385.60 | -       | Camera Underwater  | 4 |
| B | 399.90 | -       | Manhole            | 0 |

104028 MEDIUM ROOTS ON SHELF

 Rem./Replace 349'-399.9'  
 and MH 104028

## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 104-028 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                |                            |                               |                               |                                  |                               |                                |                               |
|--------------------------------|----------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>       |                            |                               |                               | <b>CONE:</b>                     |                               | <b>WALL:</b>                   |                               |
| TYPE:                          | QTY:                       | SIZE:                         | CONDITION:                    | TYPE:                            | CONDITION:                    | TYPE:                          | CONDITION:                    |
| BRICK <input type="checkbox"/> | 6 <input type="checkbox"/> | ROWS <input type="checkbox"/> | FAIR <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> | BLOCK <input type="checkbox"/> | GOOD <input type="checkbox"/> |
|                                |                            |                               |                               |                                  |                               |                                |                               |

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

|                                  |   |  |
|----------------------------------|---|--|
| <b>GPS RIM ELEVATION:</b> 852.83 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> YES <input type="checkbox"/> |
|----------------------------------|---|--|

|                       |                            |                             |                               |
|-----------------------|----------------------------|-----------------------------|-------------------------------|
| <b>INFLOW:</b>        |                            |                             |                               |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                  |
| 104-029               | E <input type="checkbox"/> | 8" <input type="checkbox"/> | PVC <input type="checkbox"/>  |
| DEPTH HIGH:           |                            | ELEV:                       | DEPTH LOW: 10.62 ELEV: 842.21 |
| DEPTH HIGH:           |                            | ELEV:                       | DEPTH LOW: ELEV:              |
| DEPTH HIGH:           |                            | ELEV:                       | DEPTH LOW: ELEV:              |

|                              |                               |                                   |                                    |
|------------------------------|-------------------------------|-----------------------------------|------------------------------------|
| <b>SERVICES:</b>             |                               |                                   |                                    |
| SERV 1 POS:                  | 7:00 <input type="checkbox"/> | SIZE: 6" <input type="checkbox"/> | MTRL: PVC <input type="checkbox"/> |
| ADDRESS: 5035 26TH AVE       |                               |                                   |                                    |
| DEPTH HIGH:                  | ELEV:                         | DEPTH LOW: 9.44                   | ELEV: 843.39                       |
| SERV 2 POS:                  | 3:00 <input type="checkbox"/> | SIZE: 6" <input type="checkbox"/> | MTRL: VCP <input type="checkbox"/> |
| ADDRESS: 3030 FOREST VIEW RD |                               |                                   |                                    |
| DEPTH HIGH:                  | ELEV:                         | DEPTH LOW: 10.20                  | ELEV: 842.63                       |
| SERV 3 POS:                  | SIZE:                         | MTRL:                             | ADDRESS:                           |
| DEPTH HIGH:                  | ELEV:                         | DEPTH LOW:                        | ELEV:                              |

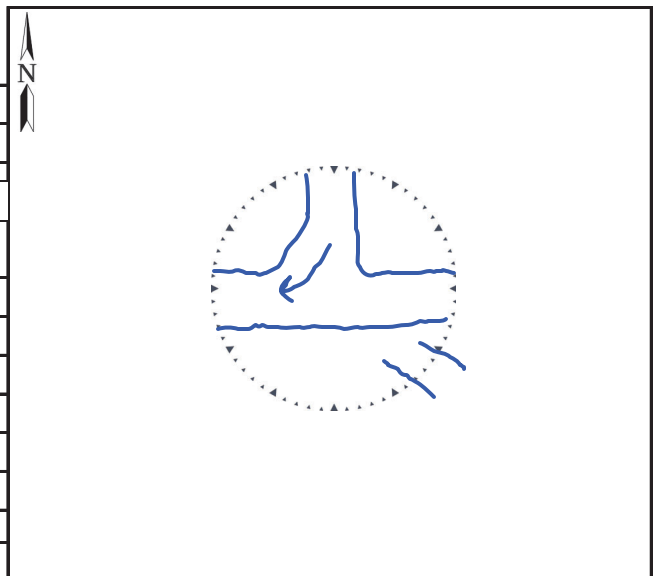
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |                            |                             |              |
|------------------------|----------------------------|-----------------------------|--------------|
| <b>OUT FLOW:</b>       |                            |                             |              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b> |
| 104-027                | W <input type="checkbox"/> | 8" <input type="checkbox"/> | CIPP         |
| DEPTH: 10.65           |                            | ELEV: 842.18                |              |
| DEPTH:                 |                            | ELEV:                       |              |

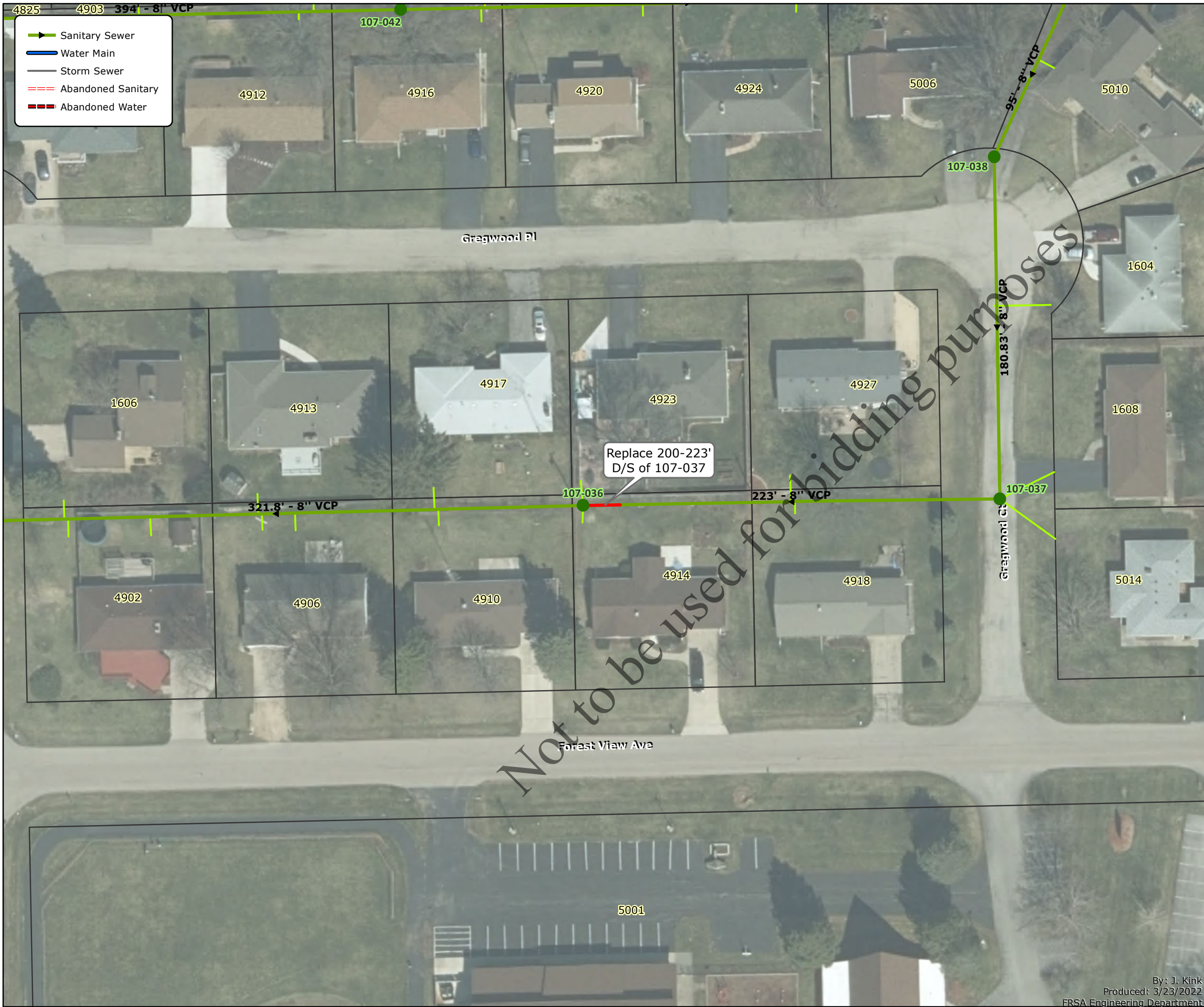
|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** BRICKS ADJUSTMENTS HAVE MORTAR LINER  
MEDIUM ROOTS ON BENCH, WALLS & CONE JOINTS

**Remove and replace with new 4' diameter manhole conforming to standard details provided in Section IV. Shift location of new manhole 6' west of existing and reconnect services to 5035 26th Ave. and 3030 Forest View Rd.**







**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.

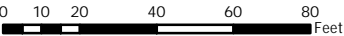
**Roadway Authority:** N/A

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall notify residents of 4917, 4923, 4927, 4910, 4914 and 4918 five (5) business days, minimum, prior to mobilizing equipment to the site.
2. FRSA has easement to access along the pipe alignment. The Contractor is responsible for obtaining any additional access easements he deems necessary.
3. All fencing shall be removed and reinstalled or replaced. Coordinate with FRSA inspector and homeowners. regarding restoration fencing.
4. Connection to existing MH 107-036 shall utilize a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.

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

**Capital Project #2354 - Map 18**



**Report Date** Tuesday, December 28, 2021 **Group Inspection #** 28562 **Page** 1

**Inspection #** 95954 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 107037 **To ID** SMH 107036 **Length** 223.00

**Address** 1608 GREGWOOD CT  
ROCKFORD IL

**Location** EASEMENT

**Started** Tuesday, September 21, 2021 **Weather** 1 **Reverse Setup** ☐

**Completed** Tuesday, September 21, 2021 **Both Directions Setup** ☐

**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐

**Project** 107

**Survey Length** 223.00 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>             | <u>Severity</u> |
|--------------|-------------|-----------------|---|-----------------|
| B            | 0.00        | -               | Manhole 107037                            | 0               |
| B            | 0.00        | -               | Water Level                               | 0               |
| B            | 17.80       | -               | Water Level Sag                           | 3               |
| B            | 31.30       | -               | M<br>Water Level Sag                      | 3               |
| B            | 36.90       | 12 - 12         | Fracture Circumferential                  | 2               |
| B            | 45.80       | 12 - 12         | Fracture Circumferential                  | 2               |
| B            | 58.90       | -               | Water Level Sag                           | 3               |
| B            | 70.50       | -               | Water Level                               | 0               |
| B            | 71.80       | 12 - 12         | Broken                                    | 4               |
| B            | 73.80       | -               | Camera Underwater                         | 4               |
| B            | 98.40       | -               | Water Level Sag                           | 3               |
| B            | 107.20      | 9 -             | Tap; factory made active<br>FOUR INCH CAS | 0               |
| B            | 109.30      | 3 -             | Tap; factory made active<br>FOUR INCH CAS | 0               |



**Report Date** Tuesday, December 28, 2021

**Group Inspection #**

28562

**Page**

2

|        |        |         |                          |   |
|--------|--------|---------|--------------------------|---|
| B      | 114.60 | 3 - 5   | Roots Fine Joint         | 1 |
| B      | 135.90 | 12 - 12 | Fracture Circumferential | 2 |
| B      | 145.90 | 12 -    | Crack Longitudinal       | 2 |
| B      | 201.80 | -       | Water Level Sag          | 3 |
| B      | 210.20 | 12 -    | Fracture Longitudinal    | 3 |
| B      | 216.90 | 12 - 12 | Broken Void Visible      | 5 |
| B      | 219.20 | -       | Water Level Sag          | 3 |
| B      | 223.00 | -       | Manhole                  | 0 |
| 107036 |        |         |                          |   |

Rem./Replace 200'-223'.  
 Connect to Existing MH  
 107036. Depth = 8.96'

Not to be used for bidding





- 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. 10 LF of 18" diameter RCP storm sewer removal and replacement is estimated.
2. 70 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
3. Contractor shall protect existing 16" and 6" diameter water mains adjacent to work.

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

**Capital Project #2354 - Map 19**



By: J. Kirk  
Produced: 3/25/2022  
FRSA Engineering Department



Report Date Tuesday, December 28, 2021 Group Inspection # 27283 Page 1

Inspection # 93715 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

From ID SMH 107055 To ID SMH 107054 Length 230.40

Address 1817 CHARLOTTE DR  
ROCKFORD IL

Location

Started Thursday, March 18, 2021 Weather 1 Reverse Setup ☐  
Completed Thursday, March 18, 2021 Both Directions Setup ☐  
Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐  
Project 107

Survey Length 278.90 Survey Diam 8.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From   | Position | Observation /<br>Comments | Severity |
|-------|--------|----------|---------------------------|----------|
| B     | 0.00   | -        | Manhole<br>107055         | 0        |
| B     | 0.00   | -        | Water Level               | 0        |
| B     | 0.70   | 5 - 7    | Broken Void Visible       | 5        |
| B     | 25.60  | 6 - 10   | Roots Medium Joint        | 3        |
| B     | 30.60  | 9 -      | Tap; factory made active  | 0        |
| B     | 30.60  | 4 - 1    | Roots Ball Connection     | 4        |
| B     | 39.80  | 12 - 12  | Roots Fine Joint          | 1        |
| B     | 47.80  | 3 -      | Roots Medium Joint        | 3        |
| B     | 85.80  | 3 -      | Tap; factory made active  | 0        |
| B     | 85.80  | 12 - 12  | Roots Medium Lateral      | 3        |
| B     | 86.60  | 6 - 12   | Roots Fine Joint          | 1        |
| B     | 95.90  | 9 -      | Tap; factory made active  | 0        |
| B     | 167.80 | 3 -      | Tap; factory made active  | 0        |

**Report Date** Tuesday, December 28, 2021

**Group Inspection #**

27283

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|   |        |       |                          |   |
|---|--------|-------|--------------------------|---|
| B | 178.00 | 9 -   | Tap; factory made active | 0 |
| B | 220.00 | -     | Joint Offset Medium      | 3 |
| B | 223.70 | 2 - 4 | Broken                   | 4 |
| B | 230.40 | -     | Manhole                  | 0 |
|   |        |       | 107054                   |   |

Rem./Replace 220'-230.4'  
 Connect to existing MH  
 107054

Not to be used for bidding purposes



**MANHOLE INSPECTION FORM**

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 107-054 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                  |                            |                              |                               |                                  |                               |                                  |                               |
|----------------------------------|----------------------------|------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>         |                            |                              |                               | <b>CONE:</b>                     |                               | <b>WALL:</b>                     |                               |
| TYPE:                            | QTY:                       | SIZE:                        | CONDITION:                    | TYPE:                            | CONDITION:                    | TYPE:                            | CONDITION:                    |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 4" <input type="checkbox"/>  | FAIR <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> |
| BRICK <input type="checkbox"/>   | 1 <input type="checkbox"/> | ROW <input type="checkbox"/> | POOR <input type="checkbox"/> |                                  |                               |                                  |                               |

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 873.49 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                             |                              |                   |             |                  |              |
|-----------------------|----------------------------|-----------------------------|------------------------------|-------------------|-------------|------------------|--------------|
| <b>INFLOW:</b>        |                            |                             |                              |                   |             |                  |              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |                   |             |                  |              |
| 107-055               | S <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: 9.48  | ELEV: _____ | DEPTH LOW: 14.06 | ELEV: 859.43 |
| 107-059               | E <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: 14.09 | ELEV: 859.40 |
|                       |                            |                             |                              | DEPTH HIGH: _____ | ELEV: _____ | DEPTH LOW: _____ | ELEV: _____  |

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

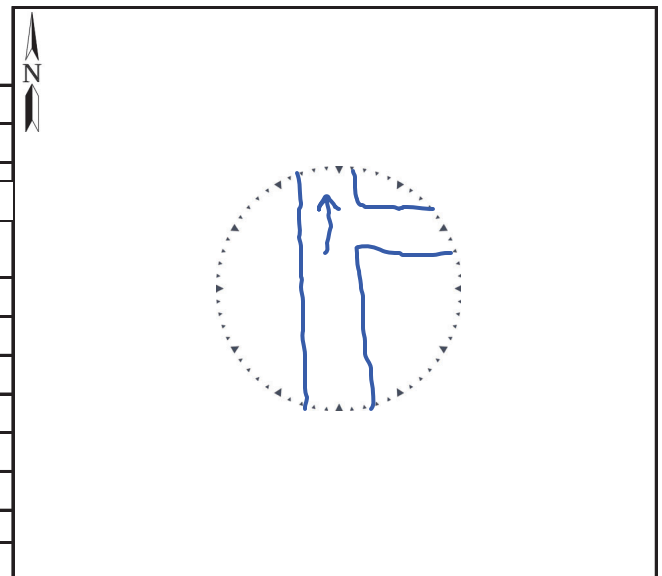
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 107-050                | N <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH: 14.11           | ELEV: 859.38               |                             |                              |
| DEPTH: _____           | ELEV: _____                |                             |                              |

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

**COMMENTS:** MISSING TOP 2-3 STEPS  
 POSSIBLE OUTSIDE DROP FROM SOUTH?? (FLOW EXISTING TOP IN PIPE)

**Remove and replace existing manhole with a new 5' diameter drop manhole conforming to the standard details provided in Section IV.**







**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.

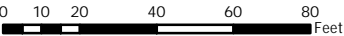
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Connection to existing MH 108-046 shall utilize a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.

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

**Capital Project #2354 - Map 20**





**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 14162 **Page** 1

**Inspection #** 72517 **Activity** TVINSP - Main TV Inspection  
**From ID** SMH 108047 **To ID** SMH 108046 **Length** 130.00  
**Address** EASTVIEW RD  
ROCKFORD IL  
**Location** @ STARVIEW DR

**Started** Thursday, March 2, 2017 **Weather** CLOUDY+32 **Reverse Setup** ☐  
**Completed** Thursday, March 2, 2017 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project**

**Survey Length** 130.00 **Survey Diam** 8.00 **UP Depth** 11.20 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u> | <u>Severity</u>        |
|--------------|-------------|-----------------|-------------------------------|------------------------|
| B            | 0.00        | -               | MANHOLE                       | UPSTREAM MANHOLE       |
| B            | 98.50       | 9 -             | LATERAL<br>VCP                | FACTORY SERVICE - LEFT |
| B            | 126.00      | 12 - 12         | OTHER<br>BAD AMKRETE REPAIR   | OTHER                  |
| B            | 130.00      | -               | MANHOLE                       | DOWNSTREAM MANHOLE     |

Rem./Replace  
125'-130'. Connect  
to existing MH  
108046





**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. Connection to existing MH 110-044 shall include a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.
2. 45 SY of pavement removal and replacement is estimates. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 21**



**Report Date** Tuesday, December 28, 2021 **Group Inspection #** 28162 **Page** 1

**Inspection #** 95299 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 110047 **To ID** SMH 110044 **Length** 160.20

**Address** GRAMERCY DR  
ROCKFORD IL

**Location**

**Started** Tuesday, July 27, 2021 **Weather** 1 **Reverse Setup** ☐  
**Completed** Tuesday, July 27, 2021 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 110

**Survey Length** 160.20 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u> | <u>Severity</u> |
|--------------|-------------|-----------------|-------------------------------|-----------------|
| B            | 0.00        | -               | Manhole 110047                | 0               |
| B            | 0.00        | -               | Water Level                   | 0               |
| B            | 13.10       | 12 - 12         | Fracture Circumferential      | 2               |
| B            | 13.10       | 12 - 12         | Roots Medium Joint            | 3               |
| B            | 24.90       | 12 - 12         | Fracture Circumferential      | 2               |
| B            | 26.50       | 12 - 12         | Roots Ball Joint              | 4               |
| B            | 65.00       | 12 - 12         | Fracture Circumferential      | 2               |
| B            | 79.80       | 12 - 12         | Broken                        | 4               |
| B            | 104.10      | 12 - 12         | Broken Void Visible           | 5               |
| B            | 114.10      | 12 - 12         | Broken                        | 4               |
| B            | 146.70      | 12 - 12         | Broken                        | 4               |
| B            | 146.70      | 12 - 12         | Roots Medium Joint            | 3               |
| B            | 154.10      | 12 - 12         | Broken Soil Visible           | 5               |

Rem./Replace 146'-160.2'  
Connect to existing MH 110044

**Report Date** Tuesday, December 28, 2021**Group Inspection #**

28162

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|          |               |   |                |          |
|----------|---------------|---|----------------|----------|
| <b>B</b> | <b>160.20</b> | - | <b>Manhole</b> | <b>0</b> |
|          |               |   | <b>110044</b>  |          |

Not to be used for bidding purposes

Report Date Tuesday, December 28, 2021 Group Inspection # 28162 Page 1

Inspection # 95300 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

From ID SMH 110048 To ID SMH 110047 Length 93.10

Address 444 GRAMERCY DR  
ROCKFORD IL

Location EASEMENT

Started Wednesday, July 28, 2021 Weather 1 Reverse Setup ☐

Completed Wednesday, July 28, 2021 Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐

Project 110

Survey Length 93.10 Survey Diam 8.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From  | Position | Observation /<br>Comments               | Severity |
|-------|-------|----------|---|----------|
| E     | 93.10 | -        | Manhole<br>110048 CONCRETE SHELF ERODED | 0        |
| E     | 68.80 | 12 - 12  | Broken                                  | 4        |
| E     | 54.20 | 12 - 12  | Fracture Circumferential                | 2        |
| E     | 44.60 | 12 - 12  | Broken                                  | 4        |
| E     | 44.60 | 6 - 6    | Roots Medium Joint                      | 3        |
| E     | 39.10 | 12 - 12  | Broken                                  | 4        |
| E     | 39.10 | 4 -      | Roots Medium Joint                      | 3        |
| E     | 34.00 | 12 - 12  | Fracture Spiral                         | 3        |
| E     | 34.00 | 3 - 5    | Roots Medium Joint                      | 3        |
| E     | 19.30 | 12 - 12  | Broken                                  | 4        |
| E     | 0.00  | -        | Manhole<br>110047                       | 0        |
| E     | 0.00  | -        | Water Level                             | 0        |

Rem./Replace 38'-45'

## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 110-048 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                |                             |                               |                               |                                  |                               |                                  |                               |
|--------------------------------|-----------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>       |                             |                               |                               | <b>CONE:</b>                     |                               | <b>WALL:</b>                     |                               |
| TYPE:                          | QTY:                        | SIZE:                         | CONDITION:                    | TYPE:                            | CONDITION:                    | TYPE:                            | CONDITION:                    |
| BRICK <input type="checkbox"/> | 10 <input type="checkbox"/> | ROWS <input type="checkbox"/> | GOOD <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> |
|                                |                             |                               |                               |                                  |                               |                                  |                               |

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 857.07 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                             |                              |
|-----------------------|----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                            |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 110-049               | N <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| 110-050               | W <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                       |                            |                             |                              |

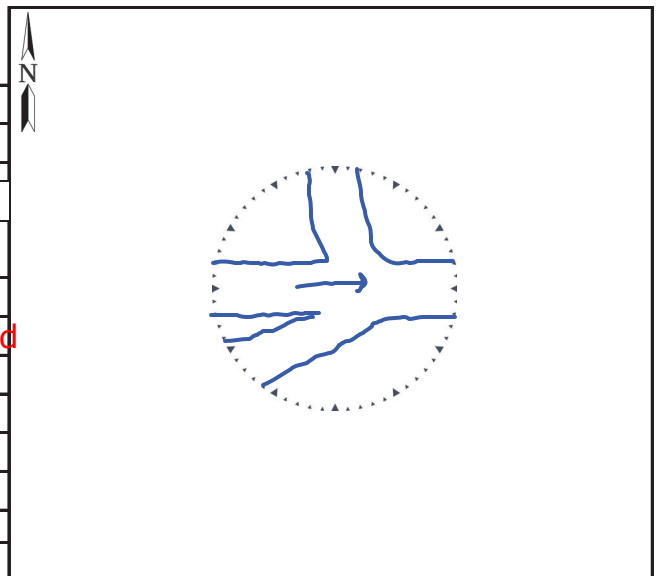
|                  |                               |                                   |  |
|------------------|-------------------------------|-----------------------------------|--|
| <b>SERVICES:</b> |                               |                                   |  |
| SERV 1 POS:      | 5:00 <input type="checkbox"/> | SIZE: 4" <input type="checkbox"/> | MTRL: CAST IRON <input type="checkbox"/> |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                                    |
| SERV 2 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>           |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                                    |
| SERV 3 POS:      |                               | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>           |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                                    |

|                        |                            |                              |                              |
|------------------------|----------------------------|------------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                              |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                 | <b>MTRL:</b>                 |
| 110-047                | E <input type="checkbox"/> | 10" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                        |                            |                              |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|  |
|--|
| <b>COMMENTS:</b> BENCH & FILET AT THE OUT IS CRACKED & BROKE OUT |
| BRICK ADJUSTMENTS 2.20' DEPTH                                    |

Remove and replace existing cone section, frame and lid. Reconstruction shall include removal and replacement of existing invert/flow line and shall conform to the standard details provided in Section IV.





## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 110-050 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                |                             |                               |                               |                                  |                               |                                  |                               |
|--------------------------------|-----------------------------|-------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>       |                             |                               |                               | <b>CONE:</b>                     |                               | <b>WALL:</b>                     |                               |
| TYPE:                          | QTY:                        | SIZE:                         | CONDITION:                    | TYPE:                            | CONDITION:                    | TYPE:                            | CONDITION:                    |
| BRICK <input type="checkbox"/> | 11 <input type="checkbox"/> | ROWS <input type="checkbox"/> | FAIR <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> | PRECAST <input type="checkbox"/> | GOOD <input type="checkbox"/> |
|                                |                             |                               |                               |                                  |                               |                                  |                               |

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 858.29 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                             |                              |
|-----------------------|----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                            |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 110-051               | N <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH:           | ELEV:                      | DEPTH LOW:                  | ELEV:                        |
|                       |                            |                             |                              |
| DEPTH HIGH:           | ELEV:                      | DEPTH LOW:                  | ELEV:                        |
|                       |                            |                             |                              |

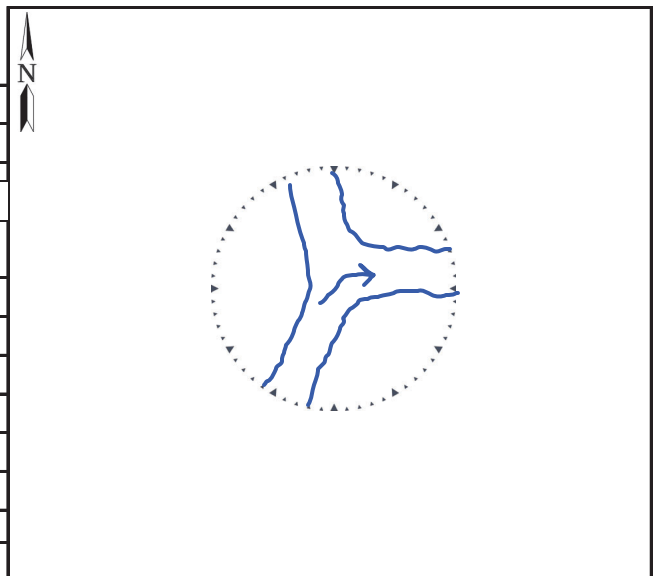
|                  |                               |                                   |  |
|------------------|-------------------------------|-----------------------------------|--|
| <b>SERVICES:</b> |                               |                                   |  |
| SERV 1 POS:      | 4:00 <input type="checkbox"/> | SIZE: 4" <input type="checkbox"/> | MTRL: CAST IRON <input type="checkbox"/> |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                                    |
|                  |                               |                                   |  |
| SERV 2 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>           |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                                    |
|                  |                               |                                   |  |
| SERV 3 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>           |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                                    |
|                  |                               |                                   |  |

|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 110-048                | E <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH:                 | ELEV:                      | DEPTH:                      | ELEV:                        |
|                        |                            |                             |                              |

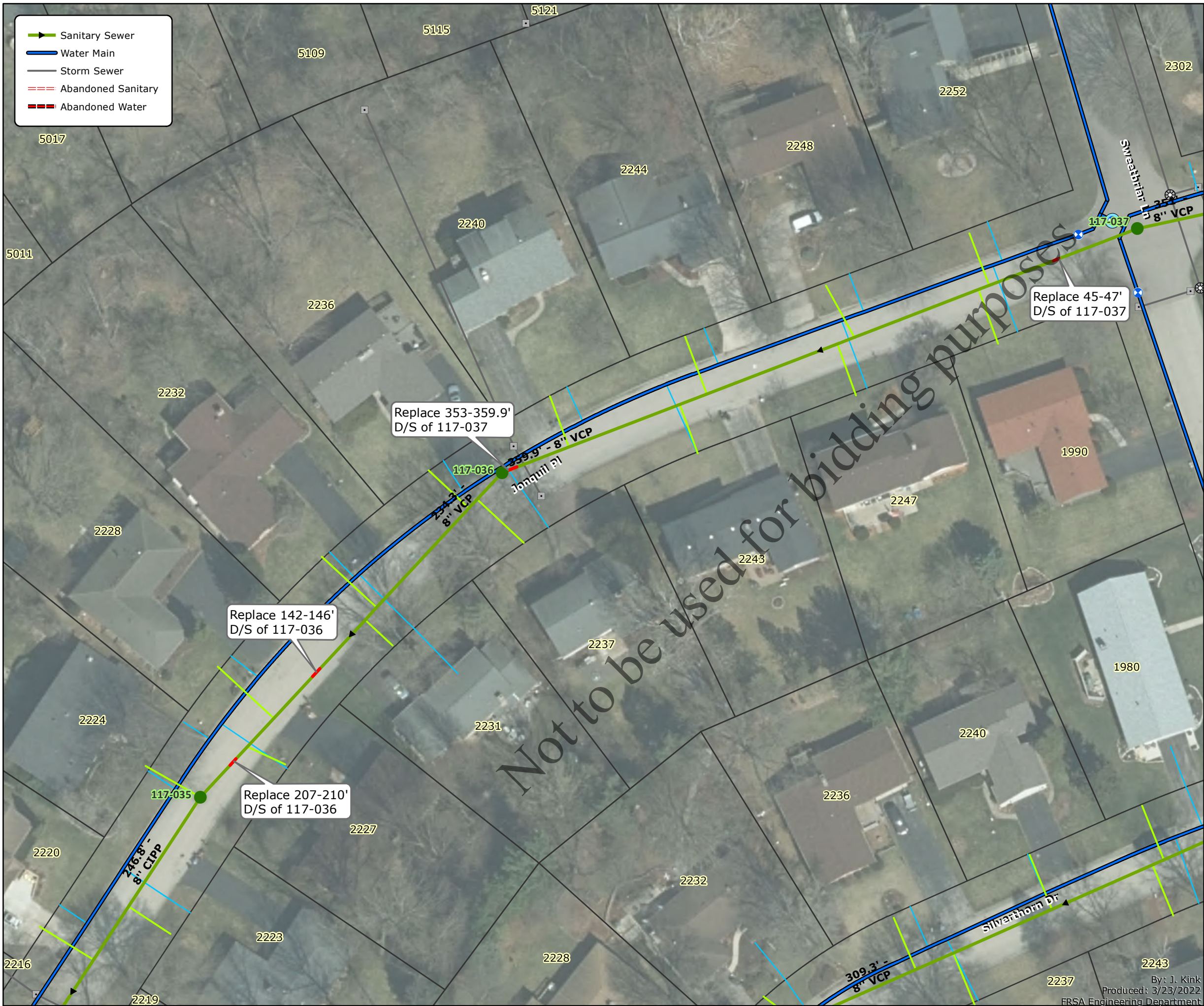
|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|   |
|---|
| <b>COMMENTS:</b> FRAME SLID +/- 6"              |
| BRICK ADJUSTMENTS 2.40' DEPTH                   |
| POSSIBLE INFILTRATION BETWEEN BRICK ADJ. & CONE |
| LARGE HOLE IN BENCH                             |

Remove and replace existing cone section, frame and lid. Reconstruction shall include removal and replacement of the existing invert/flow line and conform to the standard details provided in Section IV.







**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.

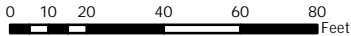
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Connection to existing MH 117-036 shall incorporate a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.
2. 80 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 22**



By: J. Kink  
Produced: 3/23/2022  
FRSA Engineering Department



Report Date Tuesday, December 28, 2021 Group Inspection # 25922 Page 1

Inspection # 91153 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

From ID SMH 117037 To ID SMH 117036 Length 359.90

Address JONQUIL PL  
ROCKFORD IL

Location @ SWEETBRIAR PL

Started Thursday, September 10, 2020 Weather 1 Reverse Setup ☐

Completed Thursday, September 10, 2020 Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐

Project 117

Survey Length 359.90 Survey Diam 8.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From   | Position | Observation /<br>Comments | Severity |
|-------|--------|----------|---------------------------|----------|
| B     | 0.00   | -        | Manhole<br>117037         | 0        |
| B     | 0.00   | -        | Water Level               | 0        |
| B     | 13.70  | 10 - 2   | Fracture Spiral           | 3        |
| B     | 34.20  | 3 - 9    | Fracture Spiral           | 3        |
| B     | 38.10  | 12 - 6   | Fracture Spiral           | 3        |
| B     | 46.50  | 12 - 12  | Broken                    | 4        |
| B     | 51.00  | 1 - 5    | Fracture Spiral           | 3        |
| B     | 80.40  | 3 -      | Tap; factory made active  | 0        |
| B     | 86.40  | 9 -      | Tap; factory made active  | 0        |
| B     | 158.00 | 3 -      | Tap; factory made active  | 0        |
| B     | 168.00 | 9 -      | Tap; factory made active  | 0        |
| B     | 209.50 | 12 - 12  | Broken                    | 4        |
| B     | 226.20 | 3 - 9    | Broken                    | 4        |

Rem./Replace 45'-47'

**Report Date** Tuesday, December 28, 2021

**Group Inspection #**

25922

**Page**

2

|   |        |         |                          |   |
|---|--------|---------|--------------------------|---|
| B | 243.10 | 3 -     | Tap; factory made active | 0 |
| B | 257.50 | 9 -     | Tap; factory made active | 0 |
| B | 303.90 | 12 - 6  | Fracture Spiral          | 3 |
| B | 321.40 | 3 -     | Tap; factory made active | 0 |
| B | 334.80 | 6 - 12  | Fracture Spiral          | 3 |
| B | 334.80 | 12 - 12 | Roots Fine Joint         | 1 |
| B | 354.90 | 12 - 12 | Broken                   | 4 |
| B | 354.90 | 12 - 12 | Roots Medium Joint       | 3 |
| B | 359.90 | -       | Manhole                  | 0 |
|   |        |         | 117036                   |   |

Rem./Replace 353'-359.9'  
 Connect to existing MH  
 117036

Not to be used for bidding purposes



**Report Date** Tuesday, December 28, 2021 **Group Inspection #** 25922 **Page** 1

**Inspection #** 91152 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 117036 **To ID** SMH 117035 **Length** 234.30

**Address** 2236 JONQUIL PL  
ROCKFORD IL

**Location**

**Started** Monday, November 16, 2020 **Weather** 1 **Reverse Setup** ☐  
**Completed** Monday, November 16, 2020 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 117

**Survey Length** 234.30 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>     | <u>Severity</u> |
|--------------|-------------|-----------------|-----------------------------------|-----------------|
| B            | 0.00        | -               | Manhole 117036                    | 0               |
| B            | 0.00        | -               | Water Level                       | 0               |
| B            | 14.80       | 9 -             | Tap; factory made active          | 0               |
| B            | 14.80       | 12 - 12         | Roots Ball Connection             | 4               |
| B            | 20.90       | 3 -             | Tap; factory made active          | 0               |
| B            | 21.30       | 12 - 12         | Roots Medium Joint                | 3               |
| B            | 54.10       | 2 -             | Fracture Longitudinal             | 3               |
| B            | 82.90       | 12 - 12         | Roots Medium Joint                | 3               |
| B            | 92.40       | 3 -             | Tap; factory made active          | 0               |
| B            | 102.40      | 9 -             | Tap; factory made active          | 0               |
| B            | 143.40      | 12 - 12         | Broken Soil Visible<br>LARGE HOLE | 5               |
| B            | 156.00      | 8 - 10          | Fracture Spiral                   | 3               |
| B            | 160.50      | 3 - 9           | Fracture Spiral                   | 3               |

Rem./Replace 142'-146'

**Report Date** Tuesday, December 28, 2021

**Group Inspection #**

25922

**Page**

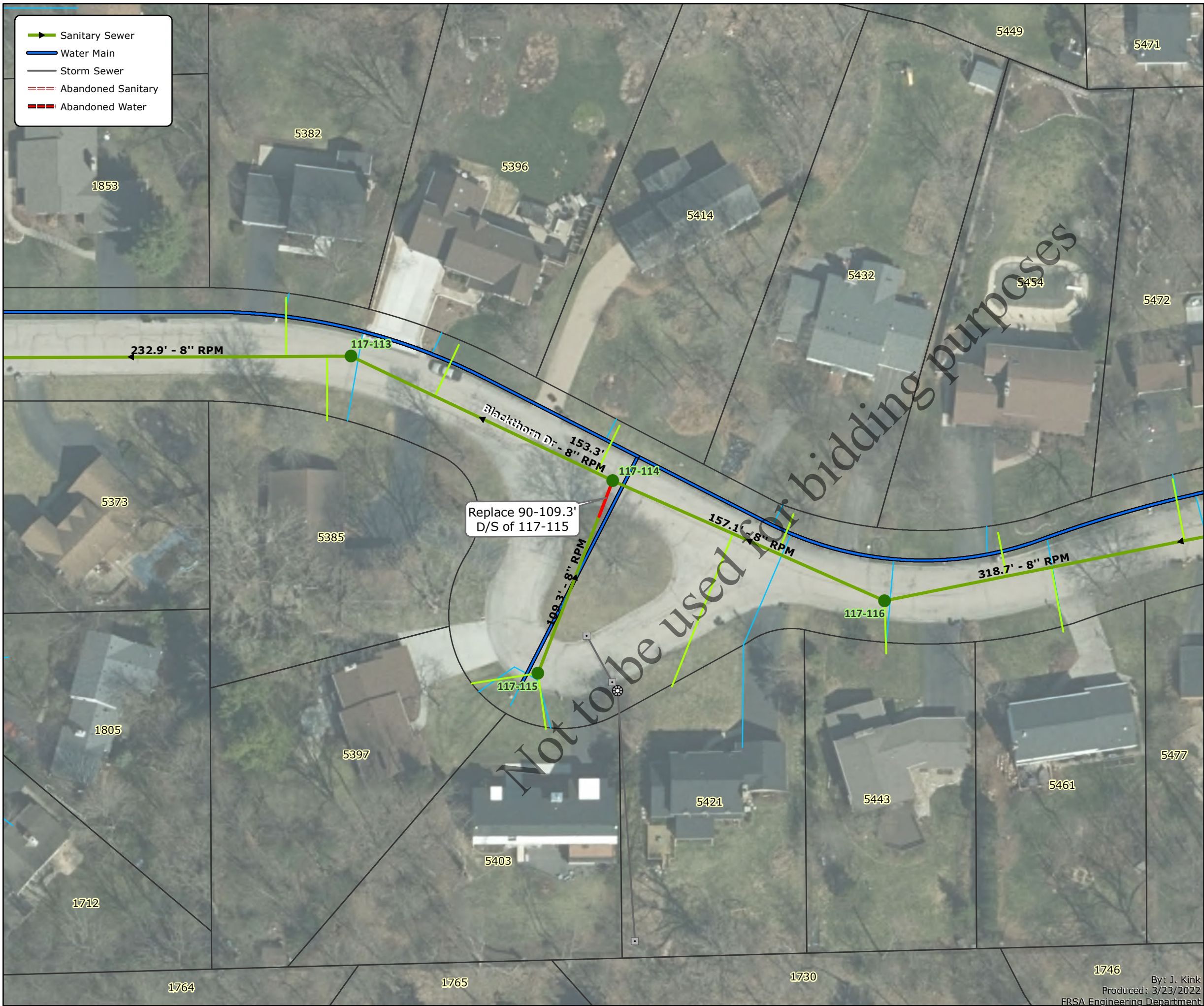
2

|   |        |         |                          |   |
|---|--------|---------|--------------------------|---|
| B | 164.50 | 3 - 9   | Fracture Spiral          | 3 |
| B | 173.40 | 3 -     | Tap; factory made active | 0 |
| B | 178.20 | 2 - 7   | Fracture Spiral          | 3 |
| B | 186.10 | 3 - 9   | Fracture Spiral          | 3 |
| B | 195.70 | 9 -     | Tap; factory made active | 0 |
| B | 208.90 | 12 - 12 | Broken                   | 4 |
| B | 217.00 | 12 - 12 | Fracture Spiral          | 3 |
| B | 221.60 | 5 - 7   | Fracture Spiral          | 3 |
| B | 228.90 | 12 - 12 | Broken Void Visible      | 5 |
| B | 232.10 | 6 -     | Tap; factory made active | 0 |
| B | 234.30 | -       | Manhole                  | 0 |
|   |        |         | VCP DROP                 |   |
|   |        |         | 117035                   |   |

Rem./Replace 207'-210'

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.

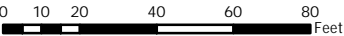
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Connection to existing MH 117-114 shall utilize a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.
2. 20 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
3. 10 LF of PCC curb and gutter removal and replacement is estimated.

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

**Capital Project #2354 - Map 23**





**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 25922 **Page** 1

**Inspection #** 91211 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 117115 **To ID** SMH 117114 **Length** 109.30

**Address** 5397 BLACKTHORN DR  
ROCKFORD IL

**Location**

**Started** Monday, November 16, 2020 **Weather** 1 **Reverse Setup** ☐  
**Completed** Monday, November 16, 2020 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 117

**Survey Length** 109.30 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** RPM

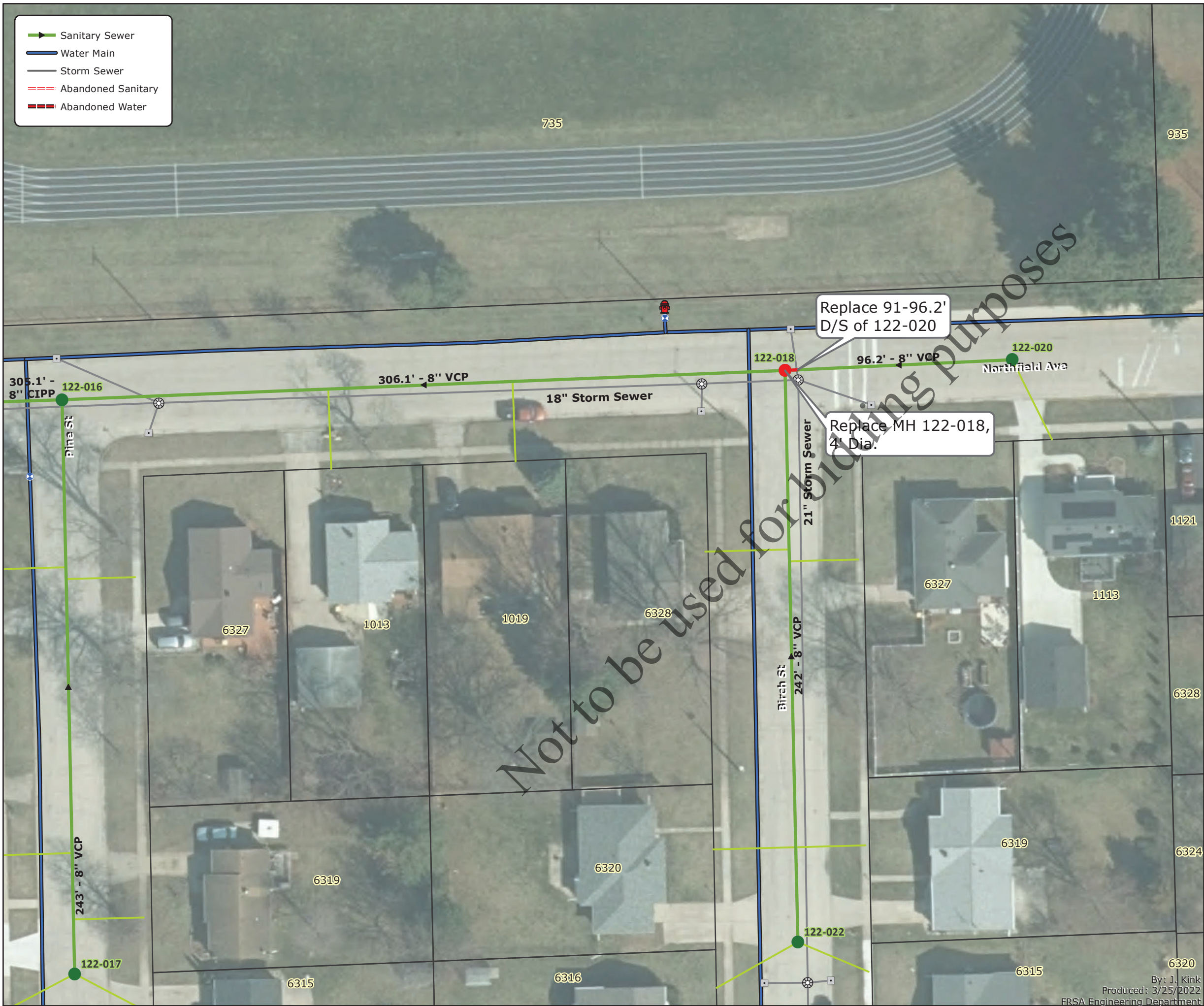
**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>    | <u>Severity</u> |
|--------------|-------------|-----------------|--------------------------------------|-----------------|
| B            | 0.00        | -               | Manhole<br>117115                    | 0               |
| B            | 0.00        | -               | Water Level                          | 0               |
| B            | 105.60      | -               |                                      | 4               |
| B            | 107.00      | 6 -             | Tap; factory made active<br>VCP DROP | 0               |
| B            | 109.30      | -               | Manhole<br>117114                    | 0               |

Rem./Replace 90'-109.3'  
Include new 8"tee for drop  
connection.





**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:** Loves Park

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor shall notify RPS 205 in advance of work, 48 hours, minimum. Contact Leo Waskiewicz at 815.490.4133 ext. 74016.
2. 10LF of 12" RCP storm sewer removal and replacement is estimated.
3. 45 SY of pavement removal and replacement is estimated. Minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 24**





**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 13822 **Page** 1

**Inspection #** 71936 **Activity** TVINSP - Main TV Inspection

**From ID** SMH 122020 **To ID** SMH 122018 **Length** 96.20

**Address** 1113 NORTHFIELD AVE  
LOVES PARK IL

**Location**

**Started** Wednesday, January 18, 2017 **Weather** CLOUDY +34 **Reverse Setup** ☐

**Completed** Wednesday, January 18, 2017 **Both Directions Setup** ☐

**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐

**Project**

**Survey Length** 96.20 **Survey Diam** 8.00 **UP Depth** 6.40 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>         | <u>Severity</u>    |
|--------------|-------------|-----------------|---|--------------------|
| B            | 0.00        | -               | MANHOLE                                   | UPSTREAM MANHOLE   |
| B            | 1.50        | 10 - 12         | BROKEN JOINT                              | BRK JT - LIGHT     |
| B            | 92.00       | 12 - 4          | STRUCTURAL<br>LARGE PIECE OF PIPE MISSING | HOLE IN PIPE       |
| B            | 92.30       | 4 - 8           | BROKEN JOINT                              | BRK JT - MEDIUM    |
| B            | 96.20       | -               | MANHOLE                                   | DOWNSTREAM MANHOLE |

Rem./Replace 91'-96.2'  
Connect to existing MH  
122018

## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 122-018 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-21-22 |
|------------------------|-------------------------|----------------------|

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

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

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

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 727.54 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                             |                              |             |       |            |                   |
|-----------------------|----------------------------|-----------------------------|------------------------------|-------------|-------|------------|-------------------|
| <b>INFLOW:</b>        |                            |                             |                              |             |       |            |                   |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |             |       |            |                   |
| 122-022               | S <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: | ELEV: | DEPTH LOW: | 6.45 ELEV: 721.09 |
| 122-020               | E <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH HIGH: | ELEV: | DEPTH LOW: | 6.45 ELEV: 721.09 |
|                       |                            |                             |                              | DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV:             |

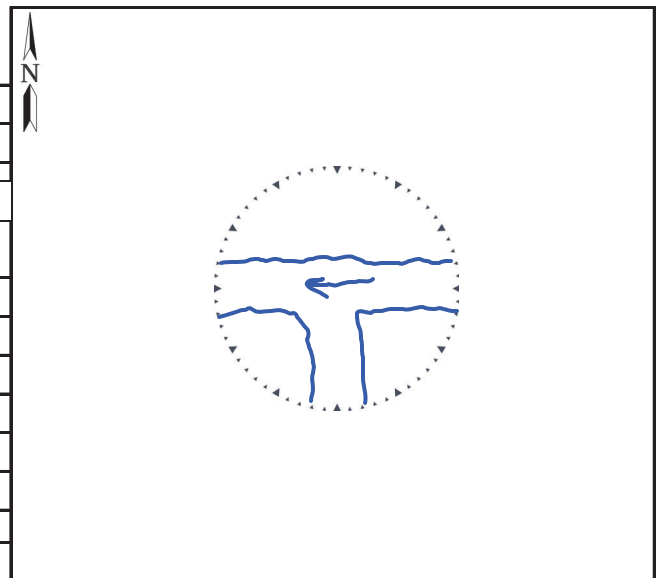
|                  |                          |            |                          |       |                          |          |
|------------------|--------------------------|------------|--------------------------|-------|--------------------------|----------|
| <b>SERVICES:</b> |            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

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

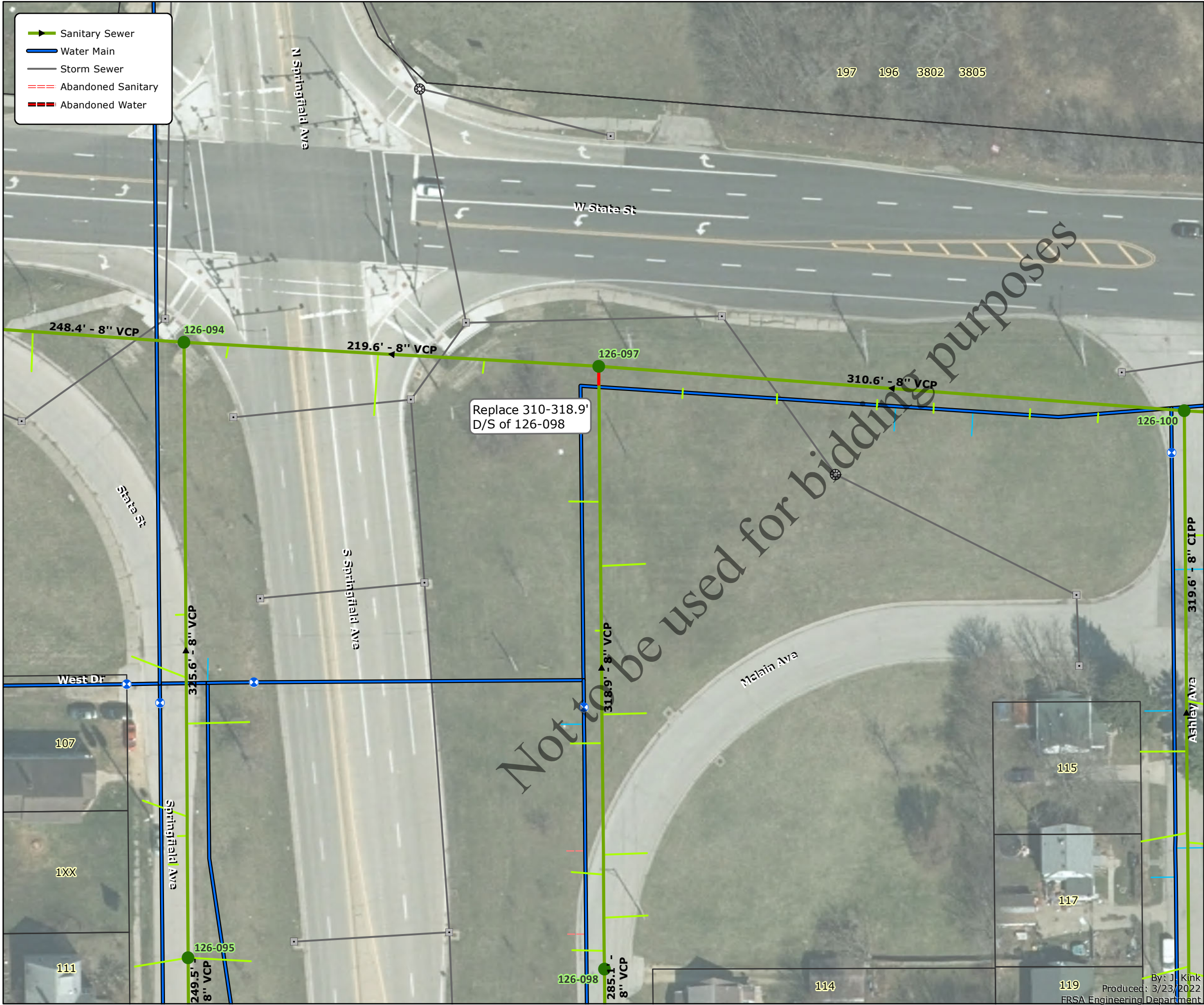
|                        |                            |                             |                              |             |              |
|------------------------|----------------------------|-----------------------------|------------------------------|-------------|--------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |             |              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |             |              |
| 122-016                | W <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | DEPTH: 6.47 | ELEV: 721.07 |
|                        |                            |                             |                              | DEPTH:      | ELEV:        |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|  |
|--|
| <b>COMMENTS:</b> DEBRI ON BENCH  |
| FRAME IS SHOWING SIGN OF COLLAPSING IN   |
| PONDING ISSUE  |
| GRIT IN INVERT   |
| Remove and replace with new 4' diameter manhole conforming to standard details provided in Section IV. |
|  |
|  |







- 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.

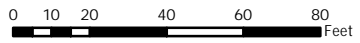
**Roadway Authority:** N/A

**Site Specific Considerations and Estimated Incidental Work Items:**

1. FRSA will procure IDOT utility permit for work.
2. Contractor shall protect existing 16" diameter water main adjacent to work.
3. Connection to existing MH 126-097 shall utilize a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.

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

**Capital Project #2354 - Map 25**





**Report Date** Wednesday, March 16, 2022 **Group Inspection #** 18162 **Page** 1

**Inspection #** 78159 **Activity** TVINSP - Main TV Inspection  
**From ID** SMH 126098 **To ID** SMH 126097 **Length** 318.90  
**Address** 114 MCLAIN AVE  
ROCKFORD IL  
**Location**

**Started** Friday, April 13, 2018 **Weather** **Reverse Setup** ☐  
**Completed** Friday, April 13, 2018 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 126

**Survey Length** 318.90 **Survey Diam** 0.00 **UP Depth** 9.30 **DWN Depth** 7.00 **Pipe Type** VCP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>  | <u>Severity</u>           |
|--------------|-------------|-----------------|------------------------------------|---------------------------|
| B            | 0.00        | -               | MANHOLE                            | UPSTREAM MANHOLE          |
| B            | 18.80       | 9 -             | LATERAL                            | FACTORY SERVICE - LEFT    |
|              |             |                 | VCP LIGHT ROOTS SERVICE NOT IN USE |                           |
| B            | 36.80       | 3 -             | LATERAL                            | FACTORY SERVICE - RIGHT   |
|              |             |                 | VCP LIGHT ROOTS                    |                           |
| B            | 60.70       | 9 -             | LATERAL                            | FACTORY SERVICE - LEFT    |
|              |             |                 | VCP SERVICE NOT IN USE             |                           |
| B            | 69.60       | 3 -             | LATERAL                            | FACTORY SERVICE - RIGHT   |
|              |             |                 | VCP                                |                           |
| B            | 129.90      | 9 -             | LATERAL                            | FACTORY SERVICE - LEFT    |
|              |             |                 | VCP SERVICE NOT IN USE             |                           |
| B            | 144.90      | 3 -             | LATERAL                            | FACTORY SERVICE - RIGHT   |
|              |             |                 | VCP                                |                           |
| B            | 177.10      | 5 - 6           | BROKEN JOINT                       | BRK JT - LIGHT            |
| B            | 189.70      | 9 -             | LATERAL                            | SERVICE CONNECTION CAPPED |
|              |             |                 | VCP                                |                           |
| B            | 234.90      | 3 -             | LATERAL                            | FACTORY SERVICE - RIGHT   |
|              |             |                 | VCP SERVICE NOT IN USE             |                           |
| B            | 258.90      | 9 -             | LATERAL                            | FACTORY SERVICE - LEFT    |
|              |             |                 | VCP SERVICE NOT IN USE             |                           |
| B            | 272.80      | -               | ROOTS                              | ROOTS-LIGHT               |
| B            | 299.90      | 12 - 12         | CRACK                              | CIRCULAR CRACK, <1/2"W    |
|              |             |                 | LIGHT                              |                           |

**Report Date** Wednesday, March 16, 2022

**Group Inspection #**

18162

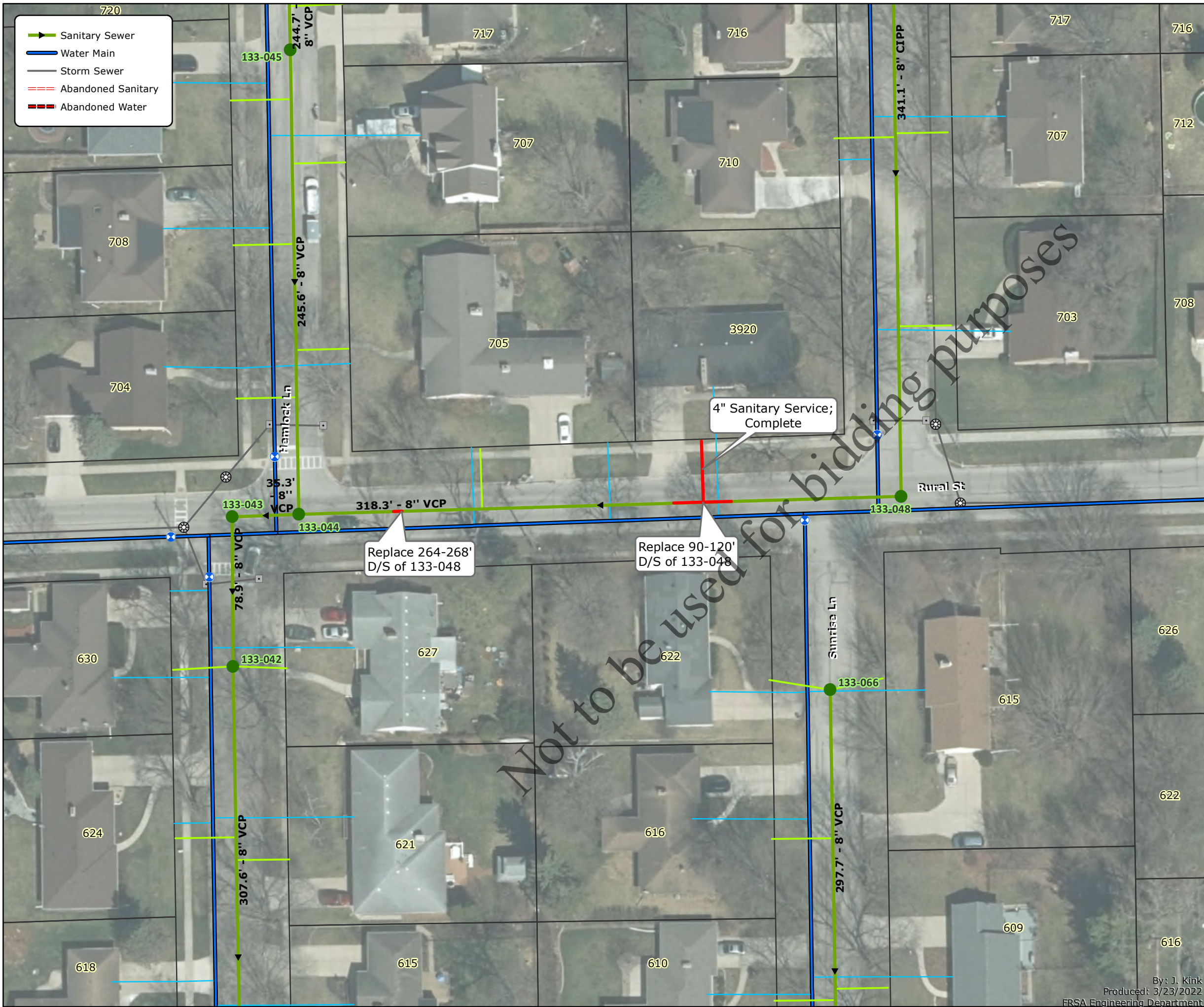
**Page** 2

|   |        |       |              |                    |
|---|--------|-------|--------------|--------------------|
| B | 316.50 | 7 - 8 | BROKEN JOINT | BRK JT - HEAVY     |
|   |        |       | PIPE MISSING |                    |
| B | 317.40 | 6 -   | OTHER        | DROP               |
|   |        |       | VCP          |                    |
| B | 318.90 | -     | MANHOLE      | DOWNSTREAM MANHOLE |

Rem./Replace  
 310'-318.9' include  
 8" tee for drop  
 connection to  
 existing MH 126097

Not to be used for bidding purpose





**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.

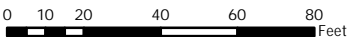
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor may sleeve new 4" diameter PVC service pipe through existing 6" diameter VCP pipe as conditions allow.
2. 95 SY of pavement removal and replacement are estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA BC placed on 12" of compacted aggregate base course.
3. 10 LF of PCC curb and gutter removal and replacement is estimated.
4. 32 SF of PCC sidewalk removal and replacement is estimated. Minimum sidewalk thickness is 4.0".

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

**Capital Project #2354 - Map 26**





Report Date Thursday, March 17, 2022 Group Inspection # 24203 Page 1

Inspection # 88205 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
From ID SMH 133048 To ID SMH 133044 Length 318.30  
Address RURAL ST ROCKFORD IL  
Location @ SUNRISE LN

Started Monday, March 2, 2020 Weather 1 Reverse Setup ☐  
Completed Monday, March 2, 2020 Both Directions Setup ☐  
Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐  
Project 133

Survey Length 318.30 Survey Diam 8.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

Observations

| Setup   | From   | Position | Observation / Comments                              | Severity |
|---|--------|----------|---|----------|
| B   | 0.00   | -        | Manhole 133048                                      | 0        |
| B   | 0.00   | -        | Water Level   | 0        |
| B   | 82.60  | 12 - 12  | Crack Circumferential                               | 1        |
| B   | 97.50  | -        | Water Level Sag                                     | 2        |
| B   | 104.80 | 3 -      | Tap Break-in Active                                 | 0        |
| B   | 104.90 | 12 - 12  | Broken  | 4        |
| B   | 112.10 | -        | Water Level Sag                                     | 2        |
| B   | 153.60 | -        | Repair Point Pipe Replaced PVC - Completed 08/04/08 | 0        |
| B   | 178.90 | -        | Repair Point Pipe Replaced VCP                      | 0        |
| B   | 205.70 | 8 - 10   | Crack Spiral  | 2        |
| B   | 211.90 | 12 - 6   | Crack Spiral  | 2        |
| B   | 219.80 | -        | Repair Point Pipe Replaced PVC - Completed 08/01/08 | 0        |
| B   | 222.60 | 3 -      | Tap; factory made active                            | 0        |
| 705 Hemlock Ln - New 4" pvc with c/o @ pl and wye @ main 08/02/08 |        |          |   |          |

Rem./Replace 90'-120'  
Replace service to 3920 Rural  
incl. new wye and CO.



**Report Date** Thursday, March 17, 2022

**Group Inspection #**

24203

**Page**

2

|   |        |         |                            |   |
|---|--------|---------|----------------------------|---|
| B | 251.50 | -       | Repair Point Pipe Replaced | 0 |
|   |        |         | VCP                        |   |
| B | 266.00 | 12 - 12 | Broken                     | 4 |
| B | 284.20 | -       | Repair Point Pipe Replaced | 0 |
|   |        |         | PVC - Completed 07/31/08   |   |
| B | 317.20 | -       | Repair Point Pipe Replaced | 0 |
|   |        |         | VCP                        |   |
| B | 318.30 | -       | Manhole                    | 0 |
|   |        |         | 133044                     |   |

Rem./Replace 264'-268'

Not to be used for bidding purposes







**Report Date** Thursday, March 17, 2022 **Group Inspection #** 24203 **Page** 1

**Inspection #** 88212 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 133060 **To ID** SMH 133059 **Length** 247.80  
**Address** WOOD RD  
ROCKFORD IL  
**Location** @ CROSBY ST

**Started** Wednesday, March 11, 2020 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, March 11, 2020 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 133

**Survey Length** 247.80 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>                        | <u>Severity</u> |
|--------------|-------------|-----------------|--|-----------------|
| B            | 0.00        | -               | Manhole<br>133060 - 5' dia. precast manhole 06/05/09 | 0               |
| B            | 0.00        | -               | Water Level  | 0               |
| B            | 1.50        | -               | Material Change<br>PVC                               | 0               |
| B            | 7.00        | -               | Material Change<br>VCP                               | 0               |
| B            | 51.70       | -               | Water Level Sag                                      | 3               |
| B            | 60.10       | -               | Water Level Sag                                      | 4               |
| B            | 71.70       | -               | Water Level Sag                                      | 3               |
| B            | 94.20       | 9 -             | Tap Break-in Abandoned                               | 0               |
| B            | 125.70      | 2 -             | Roots Fine Joint                                     | 1               |
| B            | 130.00      | 1 -             | Roots Medium Joint                                   | 3               |
| B            | 131.10      | 3 -             | Tap Factory Abandoned                                | 0               |
| B            | 131.10      | 3 -             | Roots Ball Connection                                | 4               |
| B            | 140.30      | 12 -            | Roots Fine Joint                                     | 1               |

Rem./Replace 50'-81'

Rem./Replace 140'-243'

**Report Date** Thursday, March 17, 2022

**Group Inspection #**

24203

**Page**

2

|   |        |         |                         |   |
|---|--------|---------|-------------------------|---|
| B | 147.30 | -       | Water Level             | 0 |
| B | 149.40 | 9 -     | Capped factory made tap | 0 |
| B | 155.20 | -       | Water Level             | 0 |
| B | 160.40 | -       | Water Level             | 0 |
| B | 172.20 | -       | Water Level             | 0 |
| B | 180.00 | -       | Water Level             | 0 |
| B | 182.00 | -       | Water Level             | 0 |
| B | 187.00 | 9 -     | Tap Break-in Active     | 0 |
| B | 196.80 | -       | Water Level             | 0 |
| B | 204.10 | 2 - 7   | Broken Void Visible     | 5 |
| B | 216.40 | 12 - 7  | Broken Void Visible     | 5 |
| B | 224.50 | 12 - 12 | Broken Void Visible     | 5 |
| B | 228.50 | 3 - 9   | Broken Void Visible     | 5 |
| B | 236.50 | -       | Water Level Sag         | 2 |
| B | 240.70 | 12 -    | Roots Fine Joint        | 1 |
| B | 243.10 | -       | Material Change<br>PVC  | 0 |
| B | 247.80 |         | Manhole                 | 0 |

133059 - 4' dia. precast manhole 06/05/09

Rem./Replace 140'-243.1'

Replace service to 411 Wood Rd. including new wye and CO.

Connect to existing PVC at 243.1'

Not to be used for billing purposes



|   |                                |               |
|---|--------------------------------|---------------|
| <b>Report Date</b> Thursday, March 17, 2022 | <b>Group Inspection #</b> 6142 | <b>Page</b> 1 |
|---|--------------------------------|---------------|

|   |   |
|---|---|
| <b>Inspection #</b> 62251                 | <b>Activity</b> TVINSP - Main TV Inspection                                     |
| <b>From ID</b> SMH 133057                 | <b>To ID</b> SMH 133056 <span style="float: right;"><b>Length</b> 250.30</span> |
| <b>Address</b> 311 WOOD RD<br>ROCKFORD IL |   |
| <b>Location</b>                           |   |

|  |                |   |
|--|----------------|---|
| <b>Started</b> Thursday, January 9, 2014   | <b>Weather</b> | <b>Reverse Setup</b> <input type="checkbox"/>         |
| <b>Completed</b> Thursday, January 9, 2014 |                | <b>Both Directions Setup</b> <input type="checkbox"/> |
| <b>Comp By</b> 0057 LARRY R PIERCE         |                | <b>Prone to Blown Toilet</b> <input type="checkbox"/> |
| <b>Project</b> 133                         |                |   |

|                             |                         |                      |                       |                      |
|-----------------------------|-------------------------|----------------------|-----------------------|----------------------|
| <b>Survey Length</b> 250.30 | <b>Survey Diam</b> 8.00 | <b>UP Depth</b> 8.60 | <b>DWN Depth</b> 0.00 | <b>Pipe Type</b> VCP |
|-----------------------------|-------------------------|----------------------|-----------------------|----------------------|

**Comments**
**Observations**

| Setup | From  | Position | Observation /<br>Comments | Severity                |
|-------|-------|----------|---------------------------|-------------------------|
| B     | 0.00  | -        | MANHOLE                   | UPSTREAM MANHOLE        |
| B     | 2.00  | 7 - 9    | STRUCTURAL                | HOLE IN PIPE            |
| B     | 2.50  | 8 - 5    | BROKEN JOINT              | BRK JT - MEDIUM         |
| B     | 2.50  | -        | ROOTS                     | ROOTS-LIGHT             |
| B     | 16.10 | -        | ROOTS                     | ROOTS-LIGHT             |
| B     | 20.10 | -        | ROOTS                     | ROOTS-MEDIUM            |
| B     | 28.40 | -        | ROOTS                     | ROOTS-LIGHT             |
| B     | 59.80 | -        | ROOTS                     | ROOTS-LIGHT             |
| B     | 62.70 | 9 -      | LATERAL                   | PLUMBER SERVICE - LEFT  |
| B     | 67.90 | -        | ROOTS                     | ROOTS-MEDIUM            |
| B     | 76.10 | -        | ROOTS                     | ROOTS-MEDIUM            |
| B     | 80.30 | -        | ROOTS                     | ROOTS-HEAVY             |
| B     | 85.00 | 3 -      | LATERAL                   | FACTORY SERVICE - RIGHT |
|       |       |          | HEAVY ROOTS               |                         |

Rem./Replace 0'-4'  
Connect to existing  
MH 133057

|                    |                          |                           |      |             |   |
|--------------------|--------------------------|---------------------------|------|-------------|---|
| <b>Report Date</b> | Thursday, March 17, 2022 | <b>Group Inspection #</b> | 6142 | <b>Page</b> | 2 |
|--------------------|--------------------------|---------------------------|------|-------------|---|

|   |        |        |              |                           |
|---|--------|--------|--------------|---------------------------|
| B | 86.40  | -      | ROOTS        | ROOTS-LIGHT               |
| B | 90.40  | -      | ROOTS        | ROOTS-MEDIUM              |
| B | 95.70  | 9 -    | LATERAL      | SERVICE CONNECTION CAPPED |
| B | 106.90 | 3 -    | LATERAL      | PLUMBER SERVICE - RIGHT   |
|   |        |        | HEAVY ROOTS  |                           |
| B | 156.50 | -      | ALIGNMENT    | SAG BEGINS                |
| B | 158.50 | 9 -    | LATERAL      | SERVICE CONNECTION CAPPED |
| B | 160.20 | -      | ALIGNMENT    | SAG ENDS MEDIUM           |
| B | 169.70 | 9 -    | LATERAL      | PLUMBER SERVICE - LEFT    |
| B | 245.40 | 10 - 2 | BROKEN JOINT | BRK JT - LIGHT            |
| B | 250.30 | -      | MANHOLE      | DOWNSTREAM MANHOLE        |

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.

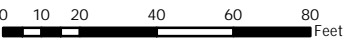
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. 40 LF of PCC curb and gutter removal and replacement is estimated.
2. 25 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 28**





Report Date Tuesday, December 28, 2021 Group Inspection # 24203 Page 1

Inspection # 88232 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

From ID SMH 133083 To ID SMH 133079 Length 277.40

Address GUILFORD RD  
ROCKFORD IL

Location @ STERLING DR

Started Monday, March 2, 2020 Weather 1 Reverse Setup ☐

Completed Monday, March 2, 2020 Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐

Project 133

Survey Length 277.40 Survey Diam 8.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From   | Position | Observation /<br>Comments | Severity |
|-------|--------|----------|---------------------------|----------|
| B     | 0.00   | -        | Manhole<br>133083         | 0        |
| B     | 0.00   | -        | Water Level               | 0        |
| B     | 45.40  | 5 - 1    | Broken                    | 4        |
| B     | 49.40  | 5 - 1    | Broken                    | 4        |
| B     | 53.70  | 12 - 12  | Crack Spiral              | 2        |
| B     | 61.80  | 12 - 12  | Broken Void Visible       | 5        |
| B     | 64.40  | 12 - 12  | Broken                    | 4        |
| B     | 77.80  | 12 - 12  | Fracture Spiral           | 3        |
| B     | 79.00  | 9 -      | Tap; factory made active  | 0        |
| B     | 84.00  | 12 - 12  | Broken                    | 4        |
| B     | 89.10  | 3 -      | Capped factory made tap   | 0        |
| B     | 94.10  | 12 - 12  | Crack Spiral              | 2        |
| B     | 106.60 | 3 -      | Roots Fine Joint          | 1        |

Rem./Replace 44'-69'

**Report Date** Tuesday, December 28, 2021

**Group Inspection #**

24203

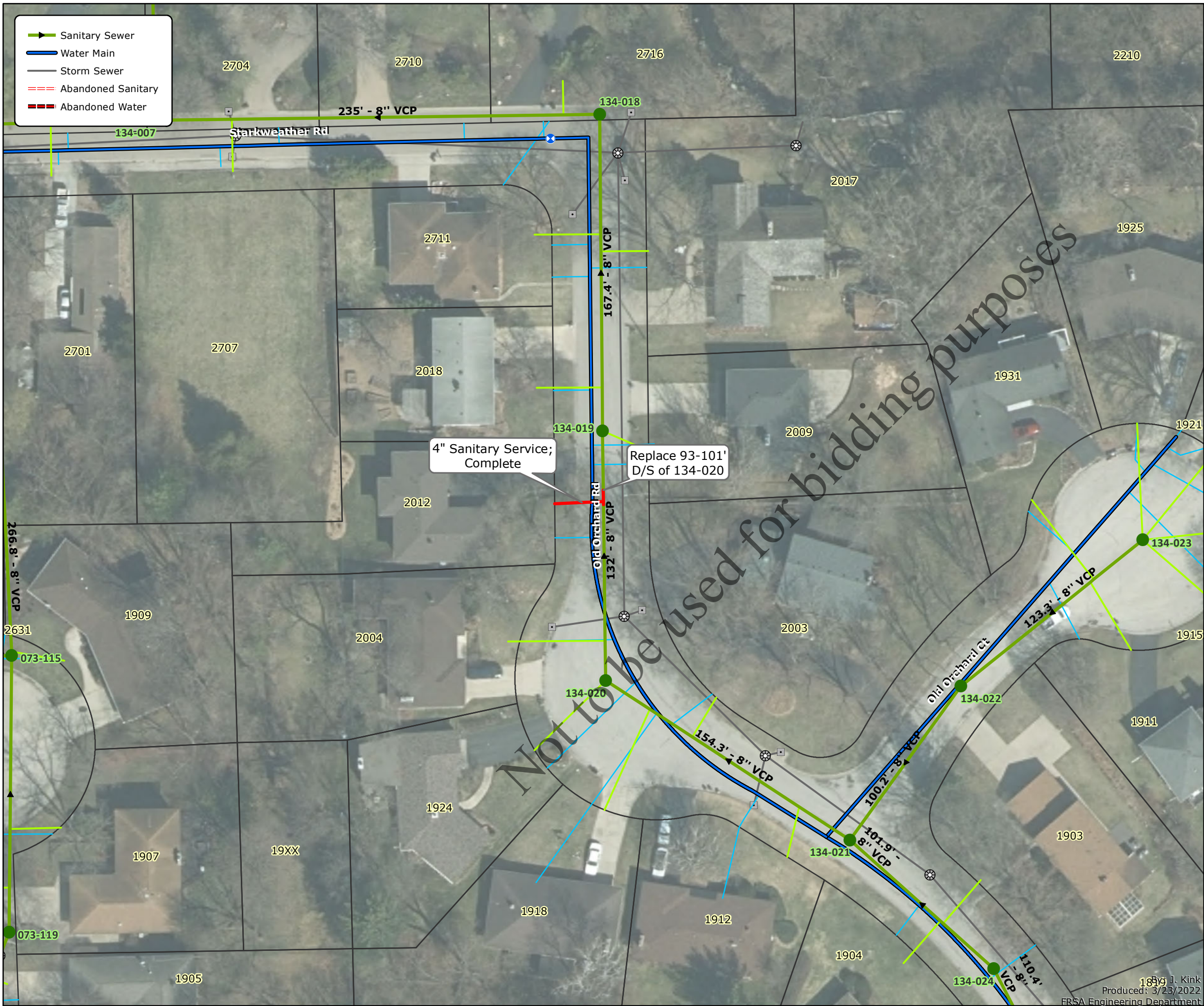
**Page**

2

|   |        |         |                         |   |
|---|--------|---------|-------------------------|---|
| B | 139.60 | 12 -    | Crack Longitudinal      | 2 |
| B | 152.60 | 3 -     | Capped factory made tap | 0 |
|   |        |         | MEDIUM ROOTS            |   |
| B | 157.00 | 3 -     | Tap Break-in Active     | 0 |
| B | 161.70 | 12 - 12 | Fracture Spiral         | 3 |
| B | 239.30 | 4 - 7   | Crack Spiral            | 2 |
| B | 262.40 | -       | Water Level Sag         | 3 |
| B | 272.80 | -       | Water Level Sag         | 2 |
| B | 277.40 | -       | Manhole                 | 0 |
|   |        |         | 133079                  |   |

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.

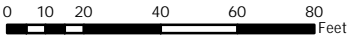
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Contractor may sleeve new 4" diameter PVC service pipe through 6" diameter VCP service pipe as conditions allow.
2. 45 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.
3. 10 LF of PCC curb and gutter removal and replacement is estimated.

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

**Capital Project #2354 - Map 29**





Report Date Tuesday, December 28, 2021

Group Inspection #

Page 1

Inspection # 54351 Activity TVINSP - Main TV Inspection  
From ID SMH 134020 To ID SMH 134019 Length 132.00  
Address 1918 OLD ORCHARD RD ROCKFORD IL  
Location

Started Monday, March 21, 2011 Weather CLOUDY 47 Reverse Setup ☐  
Completed Monday, March 21, 2011 Both Directions Setup ☐  
Comp By 0062 TONY A VICTOR Prone to Blown Toilet ☐  
Project 134

Survey Length 132.00 Survey Diam 8.00 UP Depth 11.10 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From   | Position | Observation / Comments | Severity                    |
|-------|--------|----------|------------------------|-----------------------------|
| B     | 0.00   | -        | MANHOLE                | UPSTREAM MANHOLE            |
| B     | 23.10  | 9 -      | LATERAL                | FACTORY SERVICE - LEFT      |
|       |        |          | LIGHT ROOTS            |                             |
| B     | 32.00  | -        | ROOTS                  | ROOTS-LIGHT                 |
| B     | 40.40  | -        | ROOTS                  | ROOTS-LIGHT                 |
| B     | 94.80  | 9 -      | LATERAL                | FACTORY SERVICE - LEFT      |
|       |        |          | LIGHT ROOTS            |                             |
| B     | 96.30  | -        | CRACK                  | LOGITUDINAL CRACK >1/2" W,> |
| B     | 98.40  | -        | STRUCTURAL             | BROKEN                      |
| B     | 100.20 | -        | BROKEN JOINT           | BRK JT - LIGHT              |
| B     | 128.90 | -        | BROKEN JOINT           | DRP JT>90% CLEAR            |
| B     | 132.00 | -        | MANHOLE                | DOWNSTREAM MANHOLE          |

Rem./Replace  
93'-101'  
Replace Service to  
2012 Old Orchard  
incl. new wye and  
CO.





- 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.

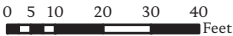
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. 45 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 30**





**Report Date** Thursday, March 17, 2022 **Group Inspection #** 23782 **Page** 1

**Inspection #** 87470 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 135004 **To ID** SMH 135003 **Length** 210.70

**Address** 2116 BRADLEY RD  
ROCKFORD IL

**Location**

**Started** Monday, November 4, 2019 **Weather** 1 **Reverse Setup** ☐  
**Completed** Monday, November 4, 2019 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 135

**Survey Length** 210.70 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| Setup | From   | Position | Observation /<br>Comments                                 | Severity |
|-------|--------|----------|---|----------|
| B     | 0.00   | -        | Manhole<br>135004   | 0        |
| B     | 0.00   | -        | Water Level   | 0        |
| B     | 3.02   | -        | Deformed Rigid  | 4        |
| B     | 3.60   | 12 - 12  | Broken Soil Visible<br>LOOSE PIPE                         | 5        |
| B     | 41.30  | 9 -      | Roots Fine Joint  | 1        |
| B     | 63.30  | 9 -      | Tap; factory made active<br>VCP                           | 0        |
| B     | 89.40  | 3 -      | Tap; factory made active<br>VCP                           | 0        |
| B     | 146.00 | 9 -      | Defective factory made tap<br>VCP, HEAVY ROOTS IN SERVICE | 3        |
| B     | 166.40 | 3 -      | Tap; factory made active<br>VCP                           | 0        |
| B     | 210.70 | -        | Manhole<br>135003   | 0        |

Rem./Replace 0'-4'.  
Replace MH 135004



## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 135-004 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-21-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                  |                            |                               |                               |                                |                               |                                |                               |
|----------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>         |                            |                               |                               | <b>CONE:</b>                   |                               | <b>WALL:</b>                   |                               |
| TYPE:                            | QTY:                       | SIZE:                         | CONDITION:                    | TYPE:                          | CONDITION:                    | TYPE:                          | CONDITION:                    |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 4" <input type="checkbox"/>   | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> | BLOCK <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| BRICK <input type="checkbox"/>   | 3 <input type="checkbox"/> | ROWS <input type="checkbox"/> | POOR <input type="checkbox"/> |                                |                               |                                |                               |

|                                   |                              |                               |                               |                               |                               |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>BENCH:</b>                     |                              | <b>INFILTRATION:</b>          |                               |                               |                               |
| TYPE:                             | SIZE:                        | ADJ:                          | CONE:                         | WALL:                         | BENCH:                        |
| CONCRETE <input type="checkbox"/> | 1/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> |

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 752.12 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                             |                             |                              |
|-----------------------|-----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                             |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 135-005               | NE <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH: _____     |                             | ELEV: _____                 | DEPTH LOW: 8.38              |
| DEPTH HIGH: _____     |                             | ELEV: _____                 | DEPTH LOW: _____             |
| DEPTH HIGH: _____     |                             | ELEV: _____                 | DEPTH LOW: _____             |

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

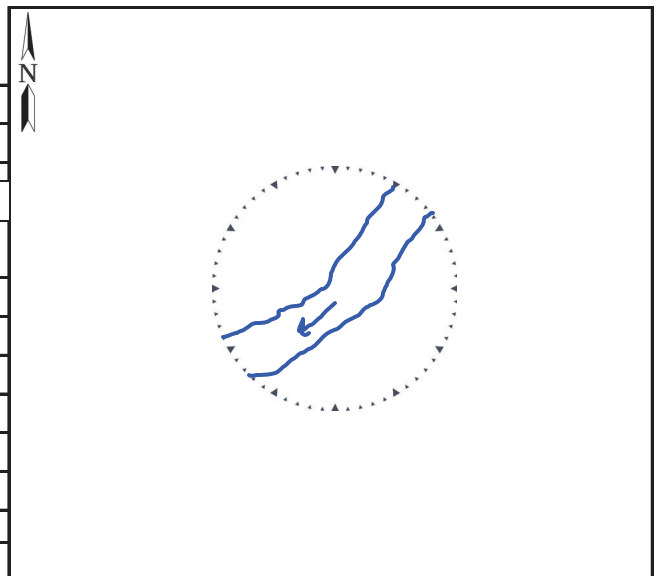
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |                             |                             |                              |
|------------------------|-----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                             |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 135-003                | SW <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH: 8.43            |                             | ELEV: 743.69                |                              |
| DEPTH: _____           |                             | ELEV: _____                 |                              |

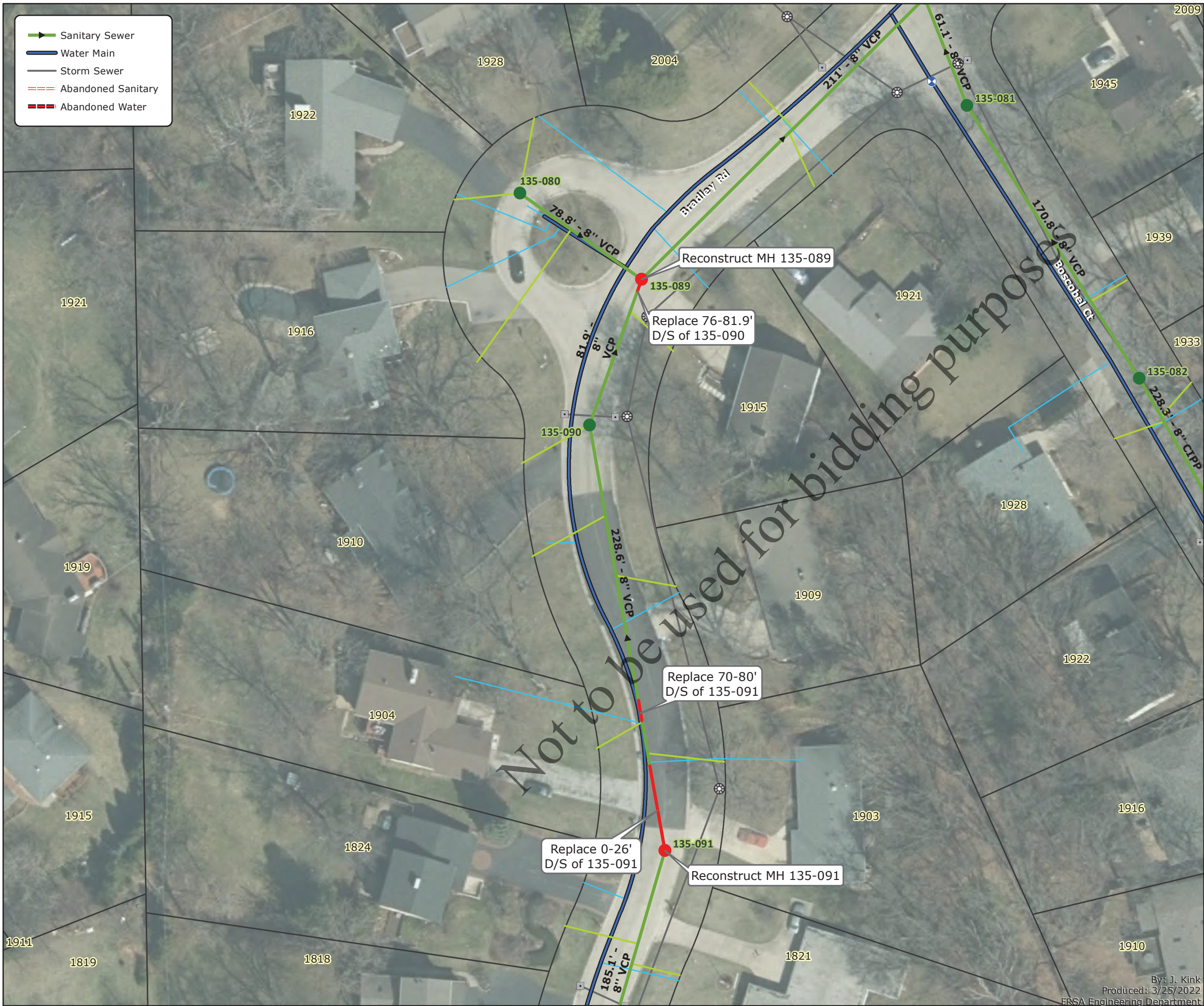
|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** LIGHT DEBRIS ON BENCH

**Remove and replace manhole with a new 4' diameter manhole conforming to the standard details provided in Section IV.**







**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.

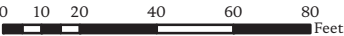
**Roadway Authority:** City of Rockford

**Site Specific Considerations and Estimated Incidental Work Items:**

1. 80 SY of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 6.0" HMA SC placed on 12" of compacted aggregate base course.
2. 15 LF of PCC curb and gutter removal and replacement is estimated.
3. Coordinate location and protection of existing 6" diameter water main with City of Rockford Water Department. Contact 779.348.7300.

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

**Capital Project #2354 - Map 31**





## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 135-089 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-21-22 |
|------------------------|-------------------------|----------------------|

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

### LID/COVER:

|                                       |                                |                                       |                                  |              |
|---------------------------------------|--------------------------------|---------------------------------------|----------------------------------|--------------|
| <b>LOCKING:</b>                       | <b>STAMP:</b>                  | <b>LID:</b>                           | <b>GASKET:</b>                   | <b>MISC:</b> |
| SELF LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | CONCEALED PL <input type="checkbox"/> | DAMAGED <input type="checkbox"/> |              |

### FRAME:

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

### ADJUSTMENT RINGS:

|                                  |                            |                              |                               |
|----------------------------------|----------------------------|------------------------------|-------------------------------|
| <b>TYPE:</b>                     | <b>QTY:</b>                | <b>SIZE:</b>                 | <b>CONDITION:</b>             |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 2" <input type="checkbox"/>  | FAIR <input type="checkbox"/> |
| BRICK <input type="checkbox"/>   | 1 <input type="checkbox"/> | ROW <input type="checkbox"/> | POOR <input type="checkbox"/> |

### CONE:

|                                |                               |
|--------------------------------|-------------------------------|
| <b>TYPE:</b>                   | <b>CONDITION:</b>             |
| BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> |

### WALL:

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

### BENCH:

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

### INFILTRATION:

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

### STEPS:

|                                    |                               |
|------------------------------------|-------------------------------|
| <b>TYPE:</b>                       | <b>CONDITION:</b>             |
| CAST IRON <input type="checkbox"/> | FAIR <input type="checkbox"/> |
| <b>1ST&lt;30" FROM RIM:</b>        | YES <input type="checkbox"/>  |
| <b>LAST&lt;24" TO BENCH:</b>       | YES <input type="checkbox"/>  |

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 766.93 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

### INFLOW:

| UPSTRM MH ID#: | DIR:                        | SIZE:                       | MTRL:                        | DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV:  |
|----------------|-----------------------------|-----------------------------|------------------------------|-------------|-------|------------|--------|
| 135-080        | NV <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |             |       | 10.90      | 756.03 |
| 135-090        | SW <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |             |       | 11.04      | 755.89 |
|                |                             |                             |                              | DEPTH HIGH: | ELEV: | DEPTH LOW: | ELEV:  |

### SERVICES:

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

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

### OUT FLOW:

| DWNSTRM MH ID#: | DIR:                        | SIZE:                       | MTRL:                        | DEPTH: | ELEV:  |
|-----------------|-----------------------------|-----------------------------|------------------------------|--------|--------|
| 135-079         | NE <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> | 11.00  | 755.93 |
|                 |                             |                             |                              | DEPTH: | ELEV:  |

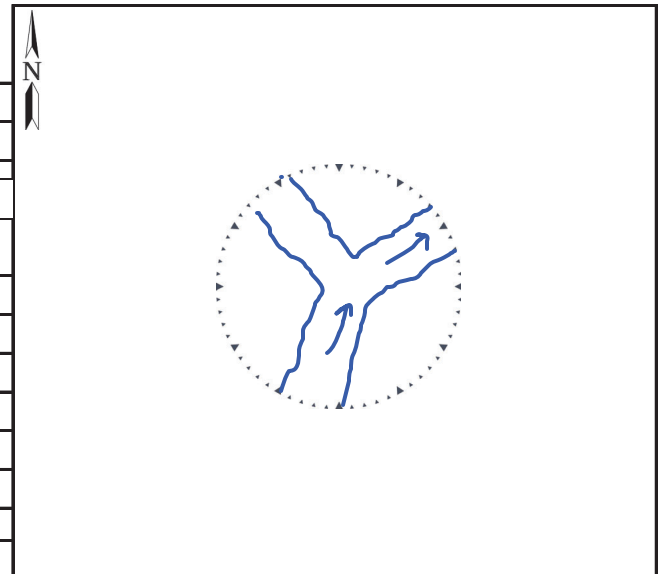
|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** 3" OF MORTAR IN ADJUSTMENTS

LIGHT DEBRIS ON BENCH

NO BACKFALL - EXTREME SLOPED ROAD

**Remove and replace existing brick cone section with new pre-cast concrete cone section. Reconstruction shall include removal and replacement of invert/flow line, frame and lid and shall conform to the standard details provided in Section IV.**





**MANHOLE INSPECTION FORM**

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 135-091 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-21-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                |                            |                               |                               |                                |                               |                                |                               |
|--------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>       |                            |                               |                               | <b>CONE:</b>                   |                               | <b>WALL:</b>                   |                               |
| TYPE:                          | QTY:                       | SIZE:                         | CONDITION:                    | TYPE:                          | CONDITION:                    | TYPE:                          | CONDITION:                    |
| BRICK <input type="checkbox"/> | 5 <input type="checkbox"/> | ROWS <input type="checkbox"/> | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> | BLOCK <input type="checkbox"/> | GOOD <input type="checkbox"/> |
|                                |                            |                               |                               |                                |                               |                                |                               |

|                                   |                              |                               |                               |                               |                               |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>BENCH:</b>                     |                              | <b>INFILTRATION:</b>          |                               |                               |                               |
| TYPE:                             | SIZE:                        | ADJ:                          | CONE:                         | WALL:                         | BENCH:                        |
| CONCRETE <input type="checkbox"/> | 1/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> |

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 797.68 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                             |                             |                              |
|-----------------------|-----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                             |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 135-092               | SW <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                       |                             |                             |                              |
|                       |                             |                             |                              |

|             |       |            |       |       |        |
|-------------|-------|------------|-------|-------|--------|
| DEPTH HIGH: | ELEV: | DEPTH LOW: | 11.18 | ELEV: | 786.50 |
| DEPTH HIGH: | ELEV: | DEPTH LOW: |       | ELEV: |        |
| DEPTH HIGH: | ELEV: | DEPTH LOW: |       | ELEV: |        |

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

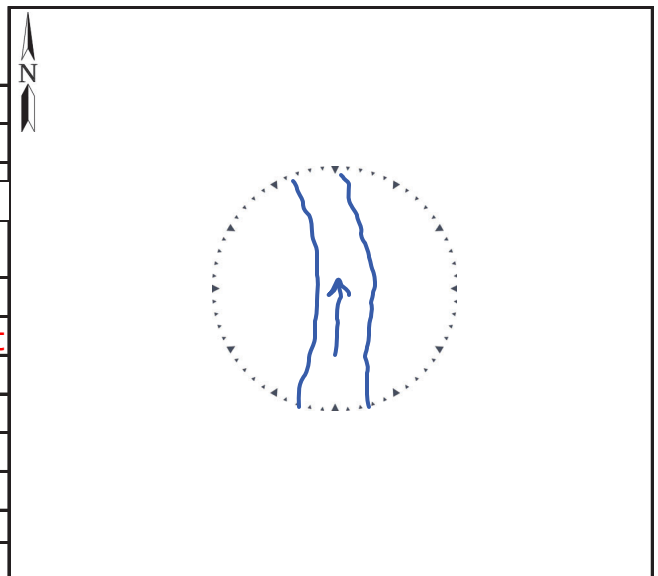
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |                             |                             |                              |
|------------------------|-----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                             |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 135-090                | NV <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                        |                             |                             |                              |
|                        |                             |                             |                              |

|        |       |       |        |
|--------|-------|-------|--------|
| DEPTH: | 11.35 | ELEV: | 786.33 |
| DEPTH: |       | ELEV: |        |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|  |
|--|
| <b>COMMENTS:</b> DEBRIS ON BOTH BENCHES  |
| PONDING ON FRAME   |
| Remove existing brick cone and replace with precast concrete cone section. Reconstruction shall include removal and replacement of invert/flow line, frame and lid and shall conform to the standard details provided in Section IV. |
|  |
|  |
|  |



**Report Date** Thursday, March 17, 2022 **Group Inspection #** 23482 **Page** 1

**Inspection #** 87109 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 135091 **To ID** SMH 135090 **Length** 228.60

**Address** 1903 BRADLEY RD  
ROCKFORD IL

**Location**

**Started** Friday, September 20, 2019 **Weather** 1 **Reverse Setup** ☐  
**Completed** Friday, September 20, 2019 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 135

**Survey Length** 228.60 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| Setup | From   | Position | Observation / Comments                                      | Severity |
|-------|--------|----------|---|----------|
| B     | 0.00   | -        | Manhole 135091  | 0        |
| B     | 0.00   | -        | Water Level   | 0        |
| B     | 1.50   | 12 - 12  | Lining Failure Detached LINER FAIL BROKEN AND FALLING APART | 3        |
| B     | 25.10  | 4 - 8    | Broken LOOSE PIPE   | 4        |
| B     | 46.10  | 3 -      | Tap; factory made active VCP                                | 0        |
| B     | 61.50  | 9 -      | Tap; factory made active VCP                                | 0        |
| B     | 121.70 | 12 - 12  | Fracture Circumferential                                    | 2        |
| B     | 141.20 | 3 -      | Tap; factory made active VCP                                | 0        |
| B     | 172.70 | 9 -      | Tap; factory made active VCP                                | 0        |
| B     | 228.60 | -        | Manhole 135090  | 0        |

Rem./Replace 0'-26'

Rem./Replace 70'-80'  
(broken pipe/spiral crack)

**Report Date** Thursday, March 17, 2022 **Group Inspection #** 23482 **Page** 1

**Inspection #** 87110 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 135090 **To ID** SMH 135089 **Length** 81.90

**Address** 1910 BRADLEY RD  
ROCKFORD IL

**Location**

**Started** Friday, September 20, 2019 **Weather** 1 **Reverse Setup** ☐  
**Completed** Friday, September 20, 2019 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 135

**Survey Length** 81.90 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>                 | <u>Severity</u> |
|--------------|-------------|-----------------|---|-----------------|
| B            | 0.00        | -               | Manhole<br>135090                                 | 0               |
| B            | 0.00        | -               | Water Level                                       | 0               |
| B            | 59.60       | 3 -             | Tap; factory made active<br>VCP                   | 0               |
| B            | 78.10       | 4 - 8           | Hole Void Visible                                 | 5               |
| B            | 79.20       | 7 -             | Fracture Longitudinal<br>PART OF THE BROKEN JOINT | 3               |
| B            | 80.70       | 12 - 12         | Fracture Circumferential                          | 2               |
| B            | 81.90       |                 | Manhole<br>135089                                 | 0               |

Rem./Replace 76'-81.9'  
Connect to existing MH 135089





**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.

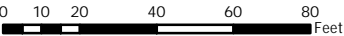
**Roadway Authority:** N/A

**Site Specific Considerations and Estimated Incidental Work Items:**

1. Connection to existing MH 156-095 shall incorporate a concrete manhole adapter as manufactured by Fernco or FRSA approved equivalent.
2. 70 LF of PCC curb and gutter removal and replacement is estimated. Coordinate with FRSA to re-establish the existing lines and grades for replacement curb.
3. 70 SY Of pavement removal and replacement is estimated. The minimum pavement section is 2.0" HMA SC over 2.5" HMA BC placed on 12" of compacted aggregate base course.

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

**Capital Project #2354 - Map 32**



**Report Date** Thursday, December 30, 2021 **Group Inspection #** 26362 **Page** 1

**Inspection #** 91729 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

**From ID** SMH 156095 **To ID** SMH 156094 **Length** 386.10

**Address** 7141 HARRISON AVE  
CHERRY VALLEY IL

**Location** EASEMENT

**Started** Monday, October 19, 2020 **Weather** 1 **Reverse Setup** ☐

**Completed** Monday, October 19, 2020 **Both Directions Setup** ☐

**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐

**Project** 156

**Survey Length** 386.10 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u> | <u>Severity</u> |
|--------------|-------------|-----------------|-------------------------------|-----------------|
| B            | 0.00        | -               | Manhole 156095                | 0               |
| B            | 0.00        | -               | Water Level                   | 0               |
| B            | 1.00        | -               | Water Level Sag               | 5               |
| B            | 7.00        | 11 - 1          | Deposits Attached Grease      | 2               |
| B            | 15.60       | -               | Joint Offset Large            | 4               |
| B            | 31.50       | 11 - 1          | Fracture Spiral               | 3               |
| B            | 42.10       | -               | Joint Separated Medium        | 3               |
| B            | 78.70       | -               | Water Level Sag               | 5               |
| B            | 150.30      | -               | Water Level Sag               | 3               |
| B            | 155.70      | 9 - 10          | Fracture Spiral               | 3               |
| B            | 155.70      | 9 - 3           | Roots Fine Joint              | 1               |
| B            | 191.70      | -               | Water Level Sag               | 3               |
| B            | 253.90      | -               |                               | 3               |

Rem./Replace 0'-71'  
Connect to existing MH  
156095

**Report Date** Thursday, December 30, 2021**Group Inspection #**

26362

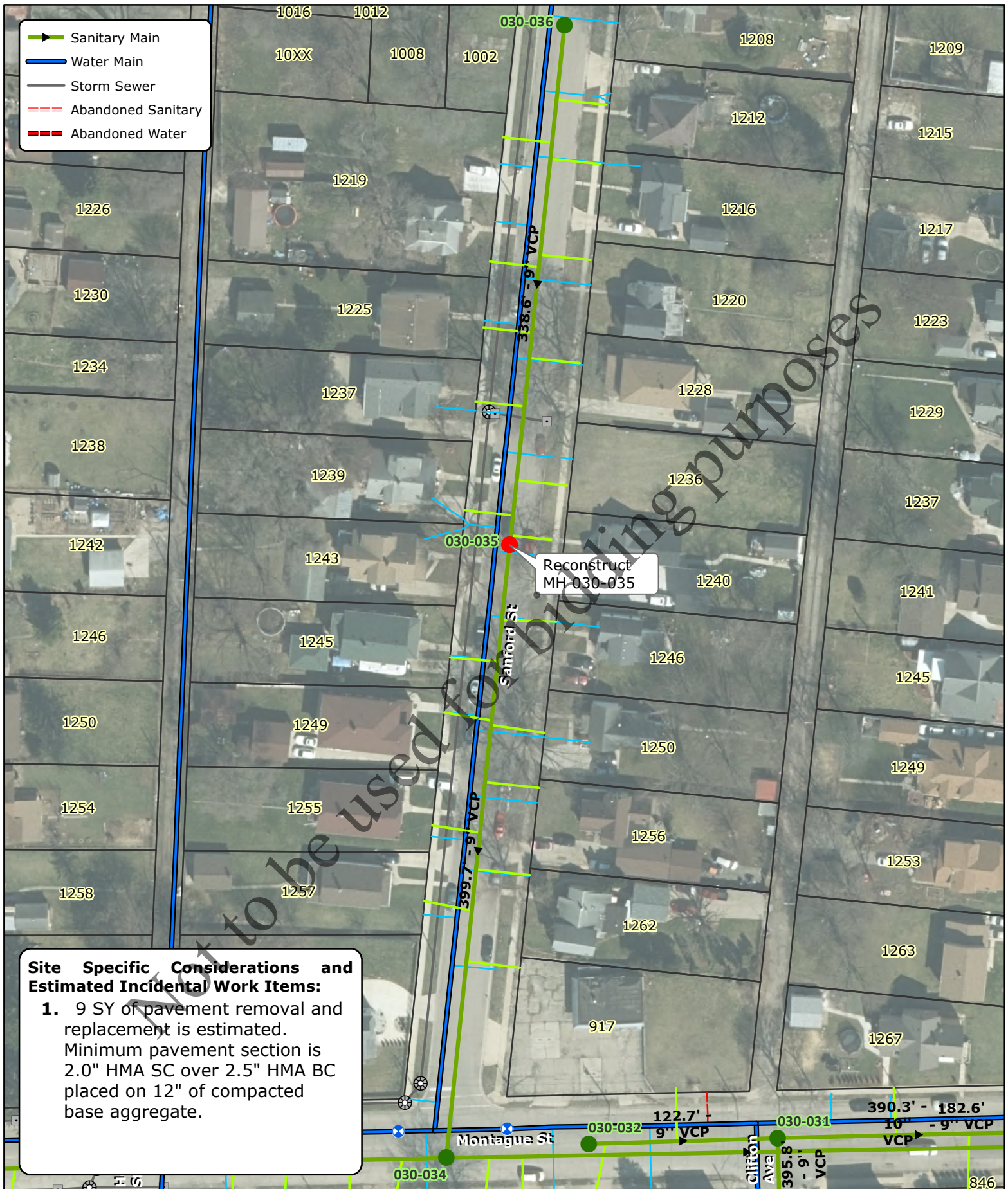
**Page**

2

|                                    |               |                |                         |          |
|------------------------------------|---------------|----------------|-------------------------|----------|
| <b>B</b>                           | <b>254.00</b> | <b>12 - 12</b> | <b>Roots Ball Joint</b> | <b>4</b> |
| <b>CUT ROOTS OUT WITH BULL DOG</b> |               |                |                         |          |
| <b>B</b>                           | <b>363.00</b> | <b>6 - 11</b>  | <b>Fracture Spiral</b>  | <b>3</b> |
| <b>B</b>                           | <b>381.10</b> | <b>-</b>       | <b>Water Level</b>      | <b>0</b> |
| <b>B</b>                           | <b>386.10</b> | <b>-</b>       | <b>Manhole</b>          | <b>0</b> |
| <b>156094</b>                      |               |                |                         |          |

Not to be used for bidding purposes





## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 030-035 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

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

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

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

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 786.19 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                             |                             |                              |
|-----------------------|-----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                             |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 030-036               | NE <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH: _____     |                             | ELEV: _____                 | DEPTH LOW: 9.05 ELEV: 777.14 |
| DEPTH HIGH: _____     |                             | ELEV: _____                 | DEPTH LOW: _____ ELEV: _____ |
| DEPTH HIGH: _____     |                             | ELEV: _____                 | DEPTH LOW: _____ ELEV: _____ |

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

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

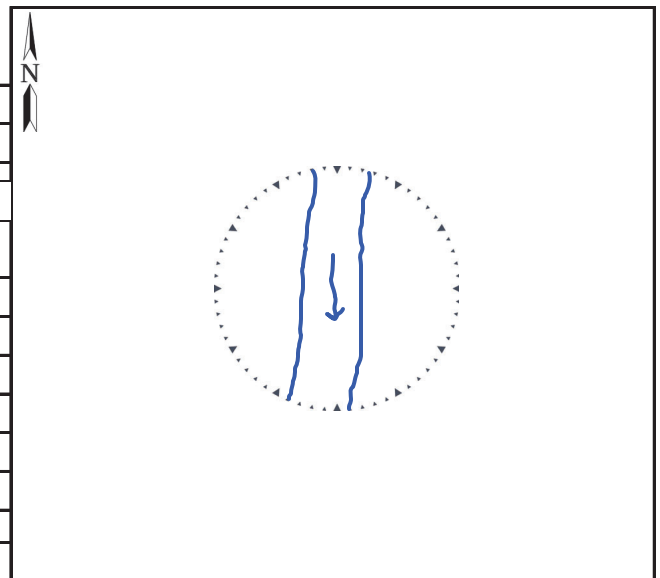
|                        |                             |                             |                              |
|------------------------|-----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                             |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 030-034                | SW <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH: 9.00            |                             | ELEV: 777.19                |                              |
| DEPTH: _____           |                             | ELEV: _____                 |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

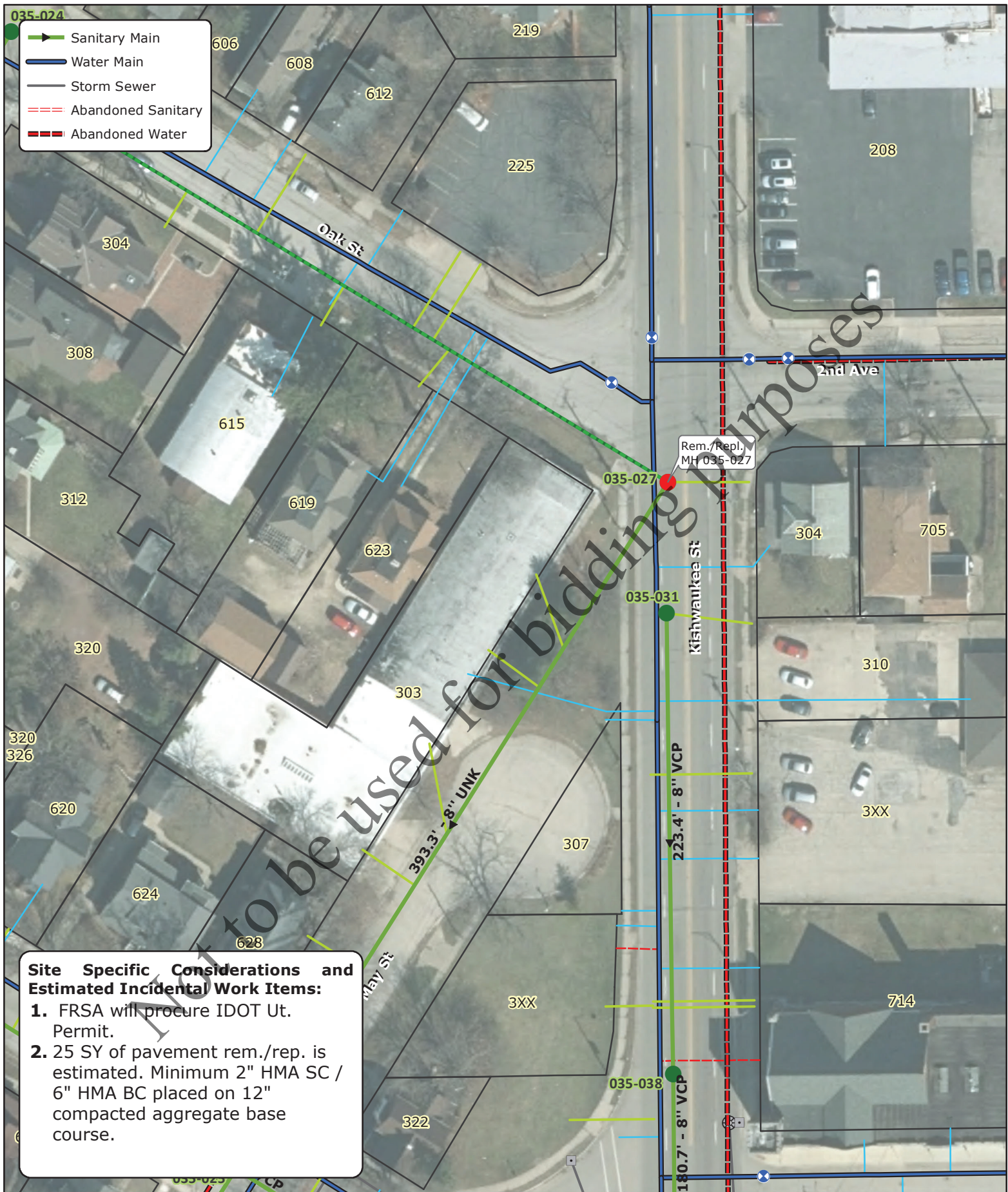
|   |
|---|
| <b>COMMENTS:</b> LIGHT DEBRI ON BENCH       |
| HOLE IN CLAY INVERT RIGHT BEFORE "OUT" PIPE |
| .05 BACKFALL                                |

**Remove and replace existing brick cone section with a new pre-cast concrete cone section.**

**Reconstruction shall include removal and replacement of the invert/flow line, frame and lid and shall conform to the standard details provided in Section IV.**









## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 035-027 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-16-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                  |                            |                             |                               |                                |                               |                                |                               |
|----------------------------------|----------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>         |                            |                             |                               | <b>CONE:</b>                   |                               | <b>WALL:</b>                   |                               |
| TYPE:                            | QTY:                       | SIZE:                       | CONDITION:                    | TYPE:                          | CONDITION:                    | TYPE:                          | CONDITION:                    |
| PRECAST <input type="checkbox"/> | 1 <input type="checkbox"/> | 2" <input type="checkbox"/> | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> |
|                                  |                            |                             |                               |                                |                               |                                |                               |

|                                   |                              |                               |                               |                               |                               |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>BENCH:</b>                     |                              | <b>INFILTRATION:</b>          |                               |                               |                               |
| TYPE:                             | SIZE:                        | ADJ:                          | CONE:                         | WALL:                         | BENCH:                        |
| CONCRETE <input type="checkbox"/> | 1/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> |

|                                  |                                   |   |
|----------------------------------|-----------------------------------|---|
| <b>GPS RIM ELEVATION:</b> 755.03 | <b>MH DIAMETER:</b> 3' EGG-SHAPED | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|-----------------------------------|---|

|                       |                             |                             |                              |
|-----------------------|-----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                             |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| STUB                  | NV <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH:           | ELEV:                       | DEPTH LOW:                  | ELEV:                        |
|                       |                             |                             |                              |
| DEPTH HIGH:           | ELEV:                       | DEPTH LOW:                  | ELEV:                        |
|                       |                             |                             |                              |

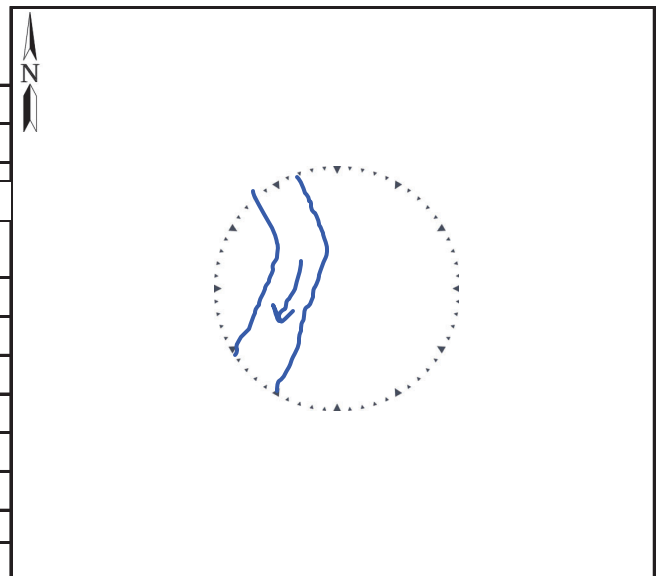
|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

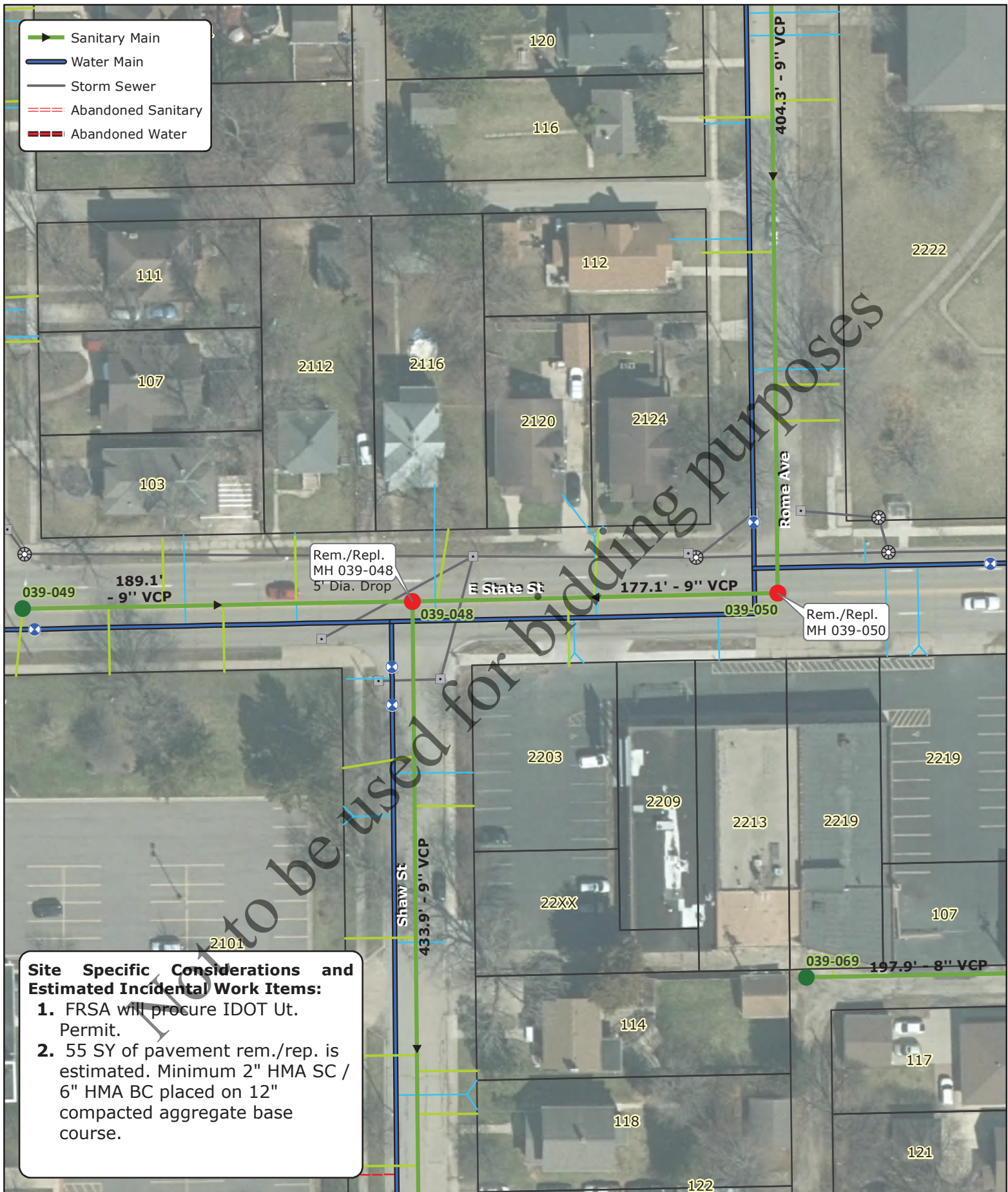
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |                             |                             |                              |
|------------------------|-----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                             |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                 | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 035-025                | SV <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH:                 | ELEV:                       | DEPTH:                      | ELEV:                        |
| 6.26                   | 748.77                      |                             |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** DEBRI ON BENCH & IN INVERT  
2" PRECAST ADJUSTMENT IS NO LONGER THERE - JUST THE REBAR  
**Remove and replace with new 4' diameter manhole conforming to standard details provided in Section IV.**





## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 039-048 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-16-22 |
|------------------------|-------------------------|----------------------|

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

|                                      |                                |                                       |                                  |       |               |            |
|--------------------------------------|--------------------------------|---------------------------------------|----------------------------------|-------|---------------|------------|
| <b>LID/COVER:</b>                    |                                |                                       |                                  |       | <b>FRAME:</b> |            |
| LOCKING:                             | STAMP:                         | LID:                                  | GASKET:                          | MISC: | TYPE:         | CONDITION: |
| NON LOCKING <input type="checkbox"/> | STAMP <input type="checkbox"/> | CONCEALED PI <input type="checkbox"/> | DAMAGED <input type="checkbox"/> |       | CAST IRON     | FAIR       |

|                                  |                            |                             |                               |                                |                               |                                |                               |
|----------------------------------|----------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>         |                            |                             |                               | <b>CONE:</b>                   |                               | <b>WALL:</b>                   |                               |
| TYPE:                            | QTY:                       | SIZE:                       | CONDITION:                    | TYPE:                          | CONDITION:                    | TYPE:                          | CONDITION:                    |
| PRECAST <input type="checkbox"/> | 2 <input type="checkbox"/> | 2" <input type="checkbox"/> | FAIR <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> |
| BRICK <input type="checkbox"/>   |                            | 4.70'                       | POOR <input type="checkbox"/> |                                |                               |                                |                               |

|                                   |                              |                               |                               |                               |                               |                                    |                               |
|-----------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------|
| <b>BENCH:</b>                     |                              | <b>INFILTRATION:</b>          |                               |                               |                               | <b>STEPS:</b>                      |                               |
| TYPE:                             | SIZE:                        | ADJ:                          | CONE:                         | WALL:                         | BENCH:                        | TYPE:                              | CONDITION:                    |
| CONCRETE <input type="checkbox"/> | 1/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | CAST IRON <input type="checkbox"/> | POOR <input type="checkbox"/> |
|                                   |                              |                               |                               |                               |                               | 1ST<30" FROM RIM:                  | NO <input type="checkbox"/>   |
|                                   |                              |                               |                               |                               |                               | LAST<24" TO BENCH:                 | YES <input type="checkbox"/>  |

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 798.16 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                             |                              |
|-----------------------|----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                            |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 039-050               | E <input type="checkbox"/> | 9" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| 039-049               | W <input type="checkbox"/> | 9" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                       |                            |                             |                              |

|             |       |            |       |       |        |
|-------------|-------|------------|-------|-------|--------|
| DEPTH HIGH: | ELEV: | DEPTH LOW: | 12.80 | ELEV: | 785.36 |
| DEPTH HIGH: | ELEV: | DEPTH LOW: | 8.75  | ELEV: | 789.41 |
| DEPTH HIGH: | ELEV: | DEPTH LOW: |       | ELEV: |        |

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

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

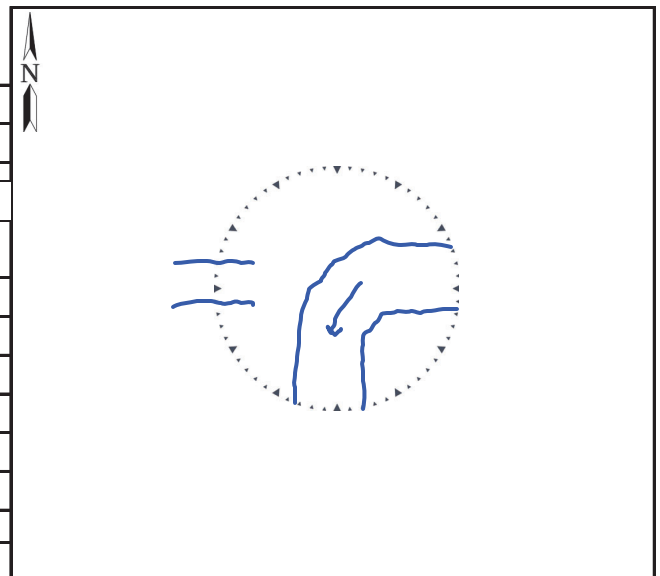
|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 039-047                | S <input type="checkbox"/> | 9" <input type="checkbox"/> | VCP <input type="checkbox"/> |
|                        |                            |                             |                              |

|        |       |       |        |
|--------|-------|-------|--------|
| DEPTH: | 12.90 | ELEV: | 785.26 |
| DEPTH: |       | ELEV: |        |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** BENCH IS DETERIORATING FROM FLOW DROPPING IN FROM WEST

**Remove and replace with new 5' diameter inside drop manhole conforming to standard details provided in Section IV.**





## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 039-050 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-16-22 |
|------------------------|-------------------------|----------------------|

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

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

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

|                                |                              |                               |                               |                               |                               |
|--------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>BENCH:</b>                  |                              | <b>INFILTRATION:</b>          |                               |                               |                               |
| TYPE:                          | SIZE:                        | ADJ:                          | CONE:                         | WALL:                         | BENCH:                        |
| BRICK <input type="checkbox"/> | 1/4 <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> | NONE <input type="checkbox"/> |

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 792.47 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

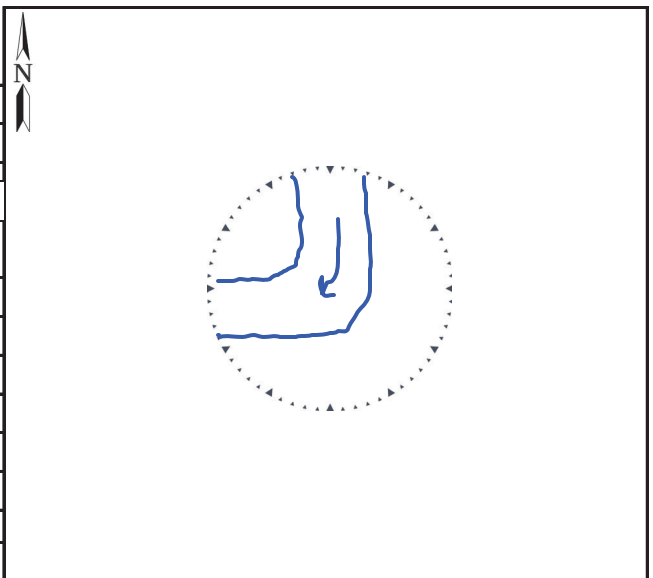
|                       |                            |                             |                              |
|-----------------------|----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                            |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 039-051               | N <input type="checkbox"/> | 9" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH: _____     |                            | ELEV: _____                 | DEPTH LOW: 6.72              |
| DEPTH HIGH: _____     |                            | ELEV: _____                 | DEPTH LOW: _____             |
| DEPTH HIGH: _____     |                            | ELEV: _____                 | DEPTH LOW: _____             |

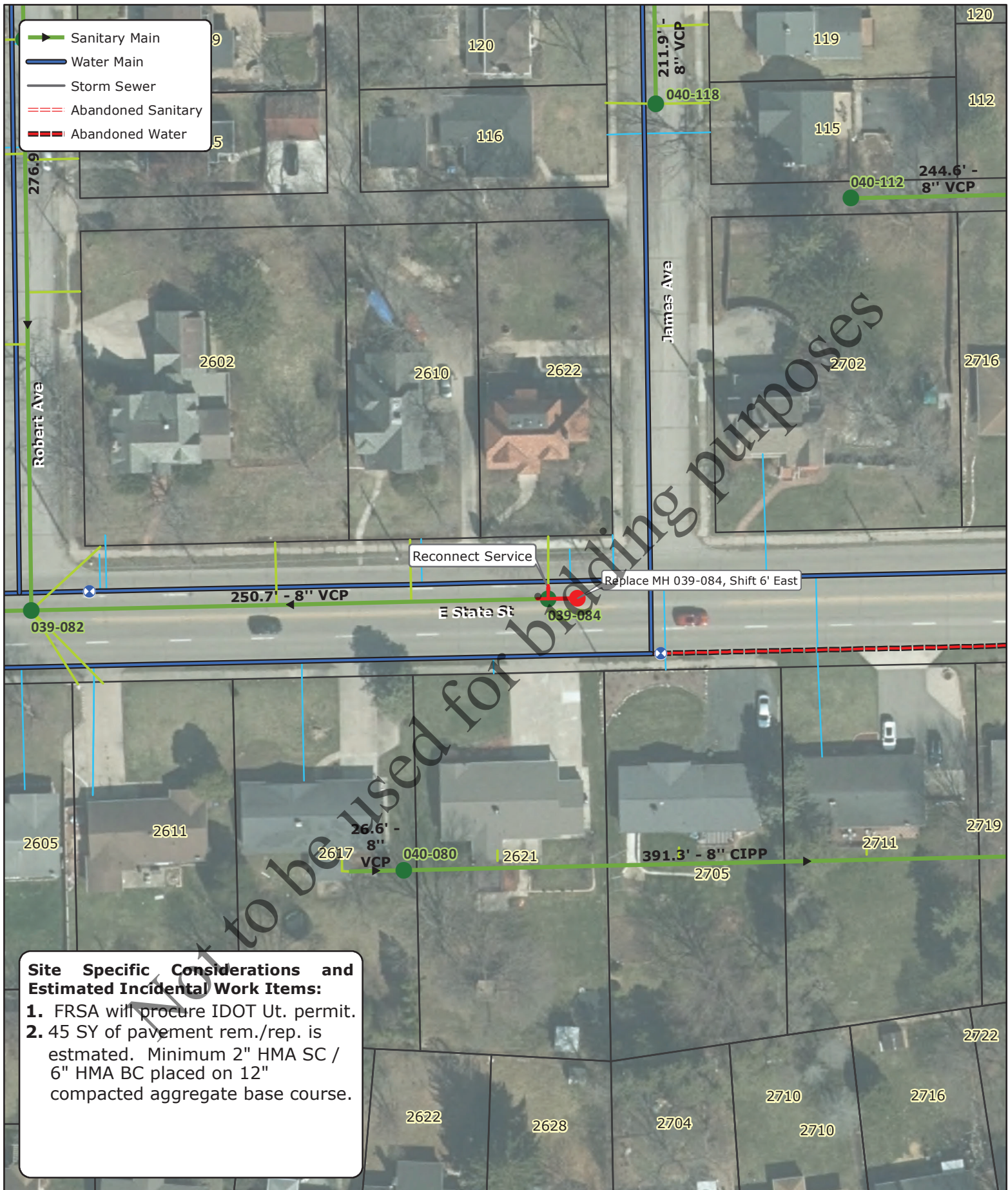
|                   |             |             |                  |
|-------------------|-------------|-------------|------------------|
| <b>SERVICES:</b>  |             |             |                  |
| SERV 1 POS: _____ | SIZE: _____ | MTRL: _____ | ADDRESS: _____   |
| DEPTH HIGH: _____ |   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

|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 039-048                | W <input type="checkbox"/> | 9" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH: 6.73            |                            | ELEV: 785.74                |                              |
| DEPTH: _____           |                            | ELEV: _____                 |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

**COMMENTS:** DEBRI & 35 CENTS ON BENCH  
GRIT & RAGS IN INVERT  
**Remove and replace with new 4' diameter manhole conforming to standard details provided in Section IV.**





## Capital Project #2354 - Map 36

Jurisdiction:  
Illinois Dept. of Transportation

## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 039-084 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-16-22 |
|------------------------|-------------------------|----------------------|

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

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

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

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 814.42 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

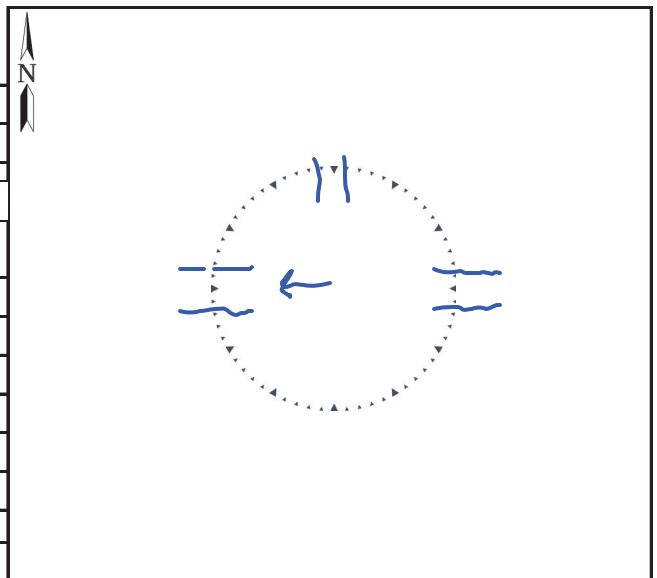
|                       |                            |                             |                              |
|-----------------------|----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                            |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| STUB                  | E <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH:           | ELEV:                      | DEPTH LOW:                  | ELEV:                        |
|                       |                            |                             |                              |
| DEPTH HIGH:           | ELEV:                      | DEPTH LOW:                  | ELEV:                        |
|                       |                            |                             |                              |

|                  |                               |                                   |                                    |
|------------------|-------------------------------|-----------------------------------|------------------------------------|
| <b>SERVICES:</b> |                               |                                   |                                    |
| SERV 1 POS:      | 3:00 <input type="checkbox"/> | SIZE: 6" <input type="checkbox"/> | MTRL: VCP <input type="checkbox"/> |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                              |
|                  |                               |                                   |                                    |
| SERV 2 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>     |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                              |
|                  |                               |                                   |                                    |
| SERV 3 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>     |
| DEPTH HIGH:      | ELEV:                         | DEPTH LOW:                        | ELEV:                              |
|                  |                               |                                   |                                    |

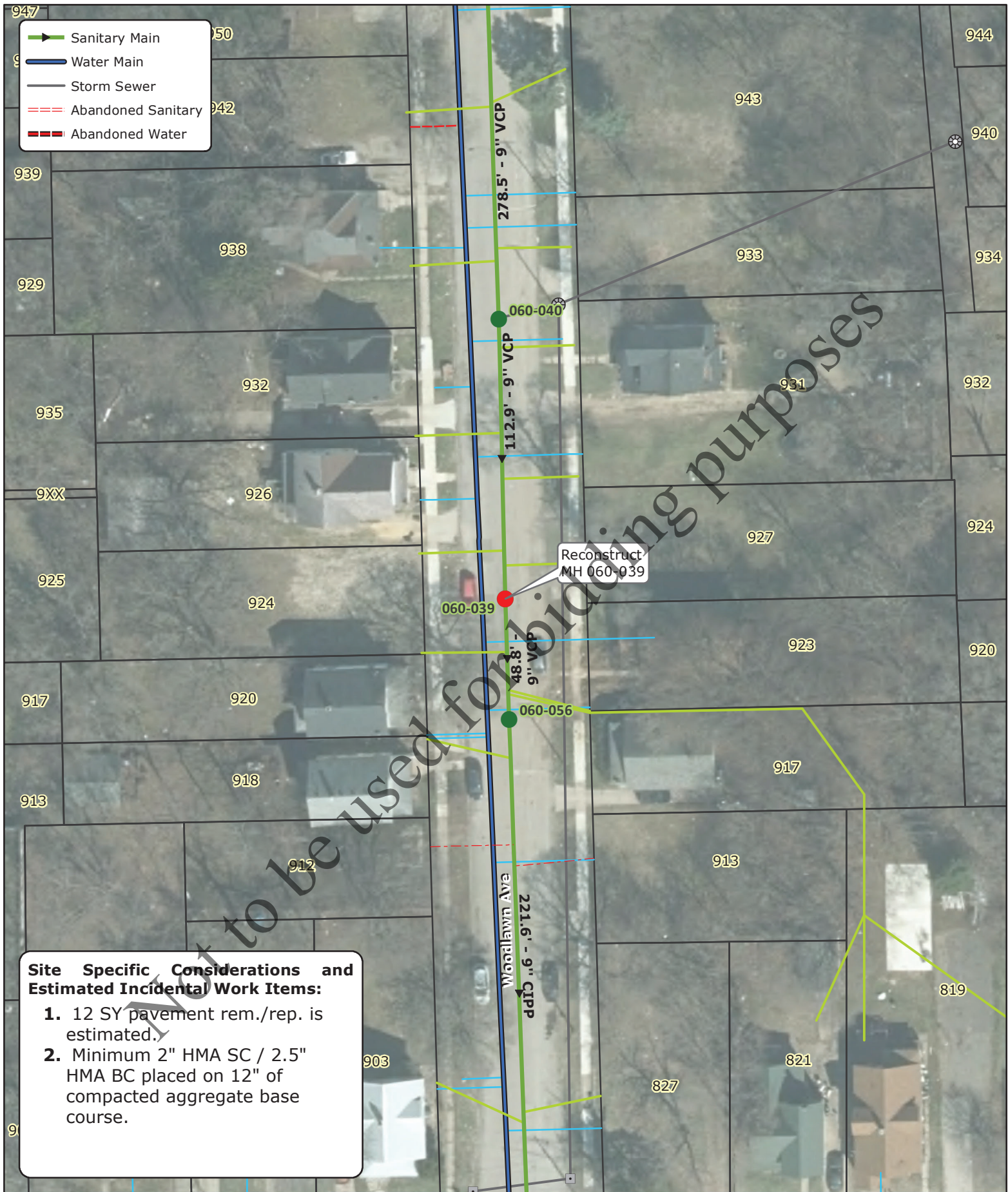
|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 039-082                | W <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH:                 | ELEV:                      | DEPTH:                      | ELEV:                        |
|                        |                            |                             |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|   |
|---|
| <b>COMMENTS:</b> DEBRI/RAGS ON BENCH                |
| Remove and replace with new 4' diameter MH          |
| conforming to standard details provided in Section  |
| IV. Shift new manhole location 6' east of existing  |
| and reconnect service to 2622 E. State to new main. |
|   |
|   |
|   |
|   |







## MANHOLE INSPECTION FORM

|                        |                         |                     |
|------------------------|-------------------------|---------------------|
| <b>MH ID#:</b> 060-039 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 5-6-21 |
|------------------------|-------------------------|---------------------|

|                               |                    |
|-------------------------------|--------------------|
| <b>SURFACE COVER:</b> ASPHALT | <b>PONDING:</b> NO |
|-------------------------------|--------------------|

|                   |        |                |         |       |               |            |
|-------------------|--------|----------------|---------|-------|---------------|------------|
| <b>LID/COVER:</b> |        |                |         |       | <b>FRAME:</b> |            |
| LOCKING:          | STAMP: | LID:           | GASKET: | MISC: | TYPE:         | CONDITION: |
| SELF LOCKING      | STAMP  | CONCEALED PICK | YES     |       | CAST IRON     | GOOD       |

|                          |      |       |            |              |            |              |            |
|--------------------------|------|-------|------------|--------------|------------|--------------|------------|
| <b>ADJUSTMENT RINGS:</b> |      |       |            | <b>CONE:</b> |            | <b>WALL:</b> |            |
| TYPE:                    | QTY: | SIZE: | CONDITION: | TYPE:        | CONDITION: | TYPE:        | CONDITION: |
| BRICK                    | 12   | ROWS  | POOR       | BRICK        | FAIR       | BRICK        | FAIR       |
|                          |      |       |            |              |            |              |            |
|                          |      |       |            |              |            |              |            |

|               |       |                      |       |       |        |                    |            |
|---------------|-------|----------------------|-------|-------|--------|--------------------|------------|
| <b>BENCH:</b> |       | <b>INFILTRATION:</b> |       |       |        | <b>STEPS:</b>      |            |
| TYPE:         | SIZE: | ADJ:                 | CONE: | WALL: | BENCH: | TYPE:              | CONDITION: |
| CONCRETE      | 1/2   | LOW                  | NONE  | NONE  | NONE   | CAST IRON          | FAIR       |
|               |       |                      |       |       |        | 1ST<30" FROM RIM:  | YES        |
|               |       |                      |       |       |        | LAST<24" TO BENCH: | YES        |

|                                  |                        |                      |
|----------------------------------|------------------------|----------------------|
| <b>GPS RIM ELEVATION:</b> 738.21 | <b>MH DIAMETER:</b> 4' | <b>SURCHARGE:</b> NO |
|----------------------------------|------------------------|----------------------|

|                       |             |              |              |
|-----------------------|-------------|--------------|--------------|
| <b>INFLOW:</b>        |             |              |              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 060-040               | N           | 9"           | VCP          |
| DEPTH HIGH:           | ELEV:       | DEPTH LOW:   | ELEV:        |
|                       |             |              |              |
| DEPTH HIGH:           | ELEV:       | DEPTH LOW:   | ELEV:        |
|                       |             |              |              |

|                  |       |            |          |
|------------------|-------|------------|----------|
| <b>SERVICES:</b> |       |            |          |
| SERV 1 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 2 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |
| SERV 3 POS:      | SIZE: | MTRL:      | ADDRESS: |
| DEPTH HIGH:      | ELEV: | DEPTH LOW: | ELEV:    |

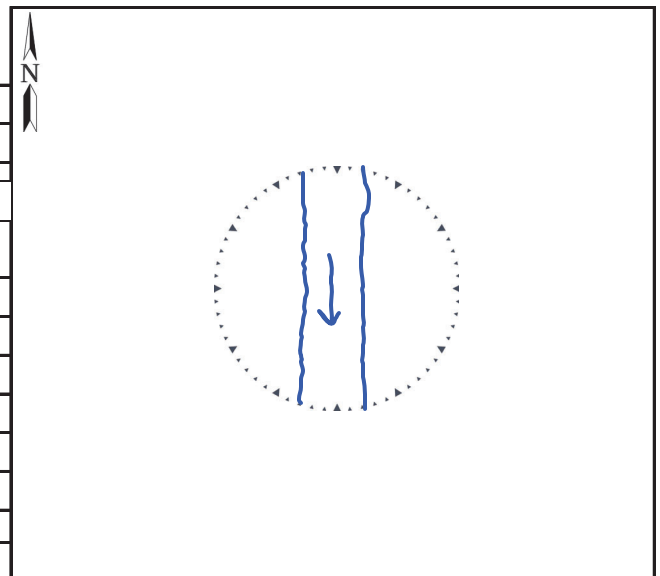
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

|                        |             |              |              |
|------------------------|-------------|--------------|--------------|
| <b>OUT FLOW:</b>       |             |              |              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b> | <b>SIZE:</b> | <b>MTRL:</b> |
| 060-056                | S           | 9"           | VCP          |
| DEPTH:                 | ELEV:       | DEPTH:       | ELEV:        |
| 9.01                   | 729.20      |              |              |

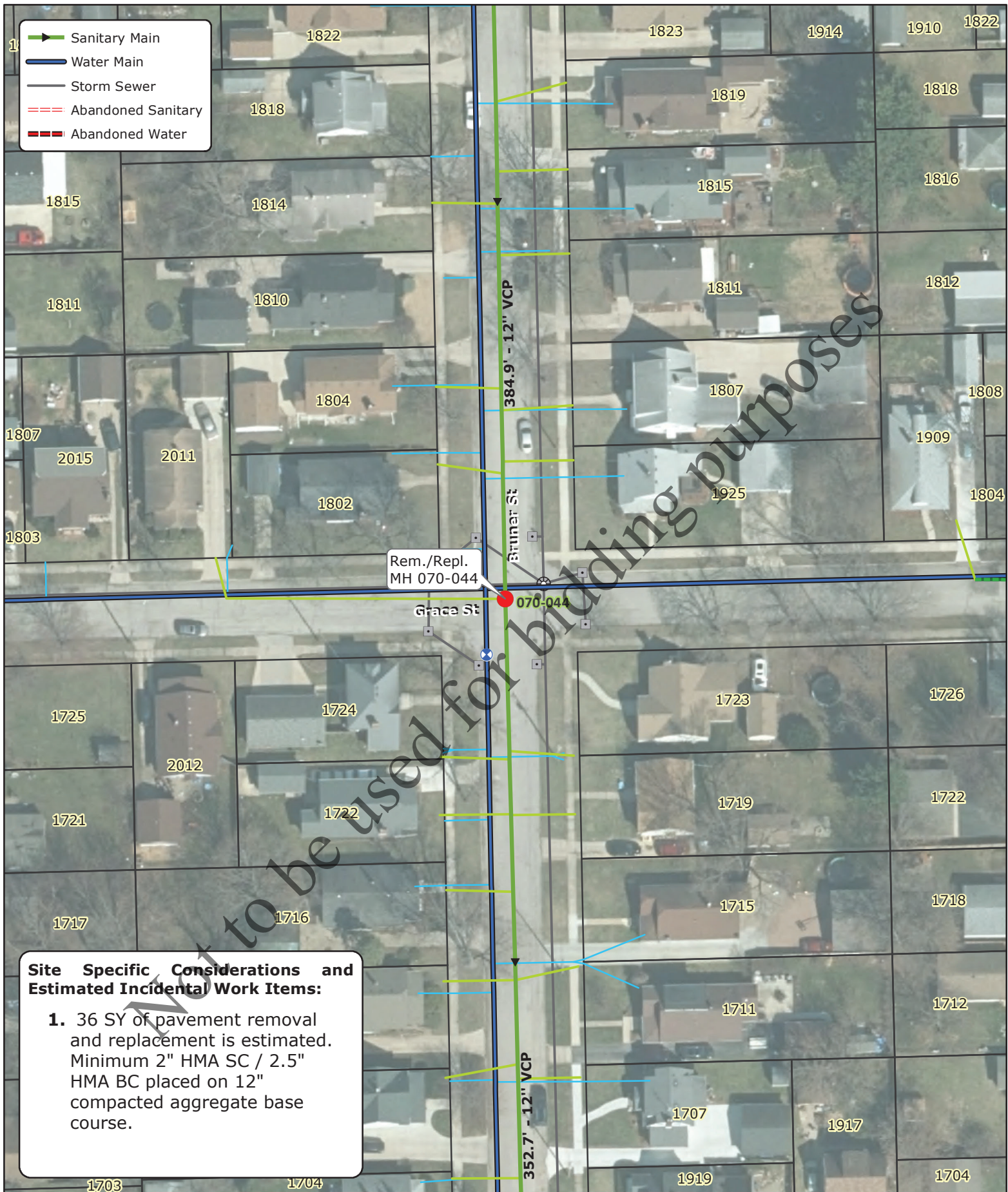
|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|  |
|--|
| <b>COMMENTS:</b> INFILTRATION IN BRICK ADJUSTMENTS |
| MANY MISSING BRICKS IN ADJUSTMENT                  |

Remove existing brick cone section and replace with new pre-cast concrete cone section, frame and lid. Reconstruction work shall conform to the standard details provided in Section IV.







**Site Specific Considerations and Estimated Incidental Work Items:**

1. 36 SY of pavement removal and replacement is estimated. Minimum 2" HMA SC / 2.5" HMA BC placed on 12" compacted aggregate base course.



## MANHOLE INSPECTION FORM

|                        |                         |                      |
|------------------------|-------------------------|----------------------|
| <b>MH ID#:</b> 070-044 | <b>INSPECTOR:</b> JS/CN | <b>DATE:</b> 3-23-22 |
|------------------------|-------------------------|----------------------|

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

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

|                                |                            |                               |                               |                                |                               |                                |                               |
|--------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| <b>ADJUSTMENT RINGS:</b>       |                            |                               |                               | <b>CONE:</b>                   |                               | <b>WALL:</b>                   |                               |
| TYPE:                          | QTY:                       | SIZE:                         | CONDITION:                    | TYPE:                          | CONDITION:                    | TYPE:                          | CONDITION:                    |
| BRICK <input type="checkbox"/> | 4 <input type="checkbox"/> | ROWS <input type="checkbox"/> | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | POOR <input type="checkbox"/> | BRICK <input type="checkbox"/> | FAIR <input type="checkbox"/> |
|                                |                            |                               |                               |                                |                               |                                |                               |

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

|                                  |   |   |
|----------------------------------|---|---|
| <b>GPS RIM ELEVATION:</b> 738.92 | <b>MH DIAMETER:</b> 4' <input type="checkbox"/> | <b>SURCHARGE:</b> NO <input type="checkbox"/> |
|----------------------------------|---|---|

|                       |                            |                             |                              |
|-----------------------|----------------------------|-----------------------------|------------------------------|
| <b>INFLOW:</b>        |                            |                             |                              |
| <b>UPSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 070-045               | N <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH HIGH:           |                            | ELEV:                       | DEPTH LOW: 9.70 ELEV: 729.22 |
| DEPTH HIGH:           |                            | ELEV:                       | DEPTH LOW: ELEV:             |
| DEPTH HIGH:           |                            | ELEV:                       | DEPTH LOW: ELEV:             |

|                  |                               |                                   |                                    |
|------------------|-------------------------------|-----------------------------------|------------------------------------|
| <b>SERVICES:</b> |                               |                                   |                                    |
| SERV 1 POS:      | 3:00 <input type="checkbox"/> | SIZE: 6" <input type="checkbox"/> | MTRL: VCP <input type="checkbox"/> |
| DEPTH HIGH:      |                               | ELEV:                             | DEPTH LOW: 7.12 ELEV: 731.80       |
| SERV 2 POS:      | <input type="checkbox"/>      | SIZE: <input type="checkbox"/>    | MTRL: <input type="checkbox"/>     |
| DEPTH HIGH:      |                               | ELEV:                             | DEPTH LOW: ELEV:                   |
| SERV 3 POS:      |                               | SIZE: MTRL:                       | ADDRESS:                           |
| DEPTH HIGH:      |                               | ELEV:                             | DEPTH LOW: ELEV:                   |

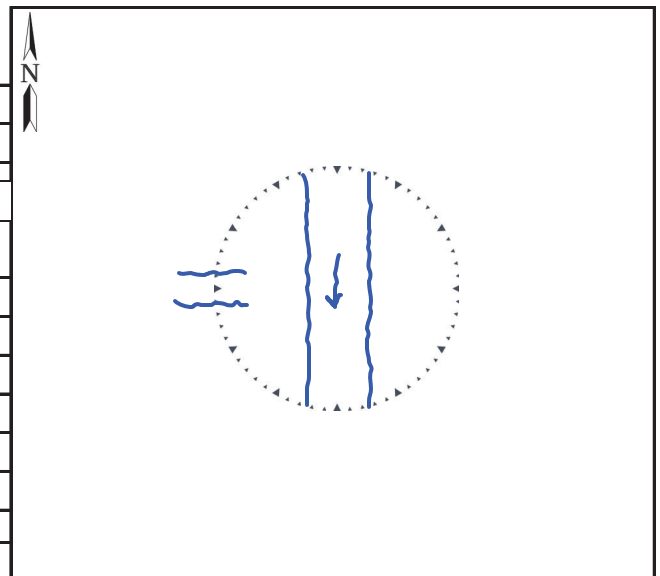
OUT IS @ 12:00 AND SERVICE POSITION IS GIVEN FROM 12:00 ON CLOCK

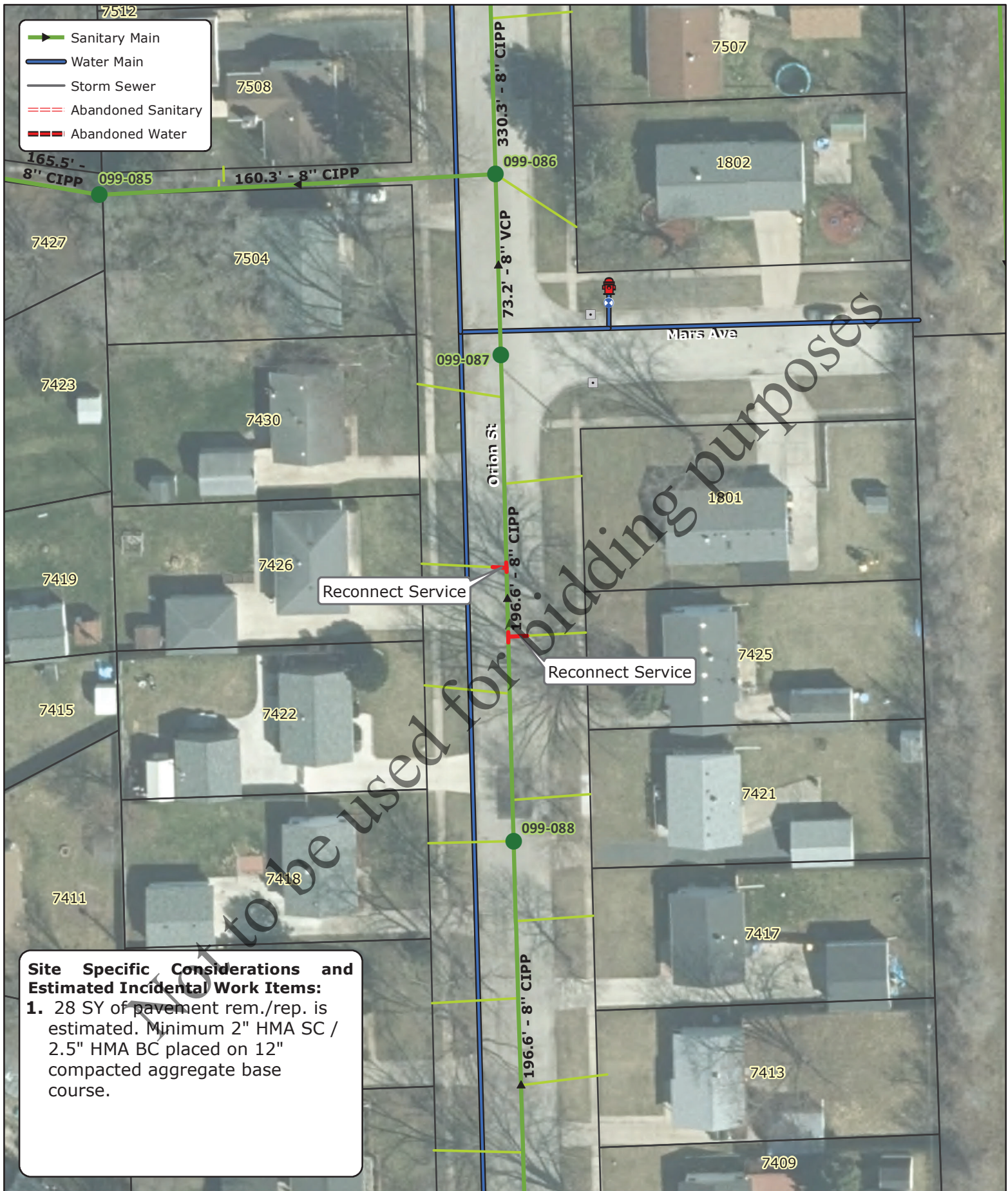
|                        |                            |                             |                              |
|------------------------|----------------------------|-----------------------------|------------------------------|
| <b>OUT FLOW:</b>       |                            |                             |                              |
| <b>DWNSTRM MH ID#:</b> | <b>DIR:</b>                | <b>SIZE:</b>                | <b>MTRL:</b>                 |
| 070-120                | S <input type="checkbox"/> | 8" <input type="checkbox"/> | VCP <input type="checkbox"/> |
| DEPTH: 9.70            |                            | ELEV: 729.22                |                              |
| DEPTH:                 |                            | ELEV:                       |                              |

|                 |                      |                     |
|-----------------|----------------------|---------------------|
| <b>METERED:</b> | <b>OUTSIDE DROP:</b> | <b>INSIDE DROP:</b> |
|-----------------|----------------------|---------------------|

|                                 |
|---------------------------------|
| <b>COMMENTS:</b> DEBRI ON BENCH |
| STEPS ARE ABOUT DETERIORATED    |

Remove and replace with new 5' diameter drop manhole conforming to the standard specifications provided in Section IV.





**Report Date** Friday, March 25, 2022 **Group Inspection #** 5162 **Page** 1

**Inspection #** 61172 **Activity** TVINSP - Main TV Inspection  
**From ID** SMH 099088 **To ID** SMH 099087 **Length** 196.60  
**Address** 7418 ORION ST  
LOVES PARK IL  
**Location**

**Started** Monday, August 26, 2013 **Weather** **Reverse Setup** ☐  
**Completed** Monday, August 26, 2013 **Both Directions Setup** ☐  
**Comp By** 0051 VINCE MANGIARACINA **Prone to Blown Toilet** ☐  
**Project** 099

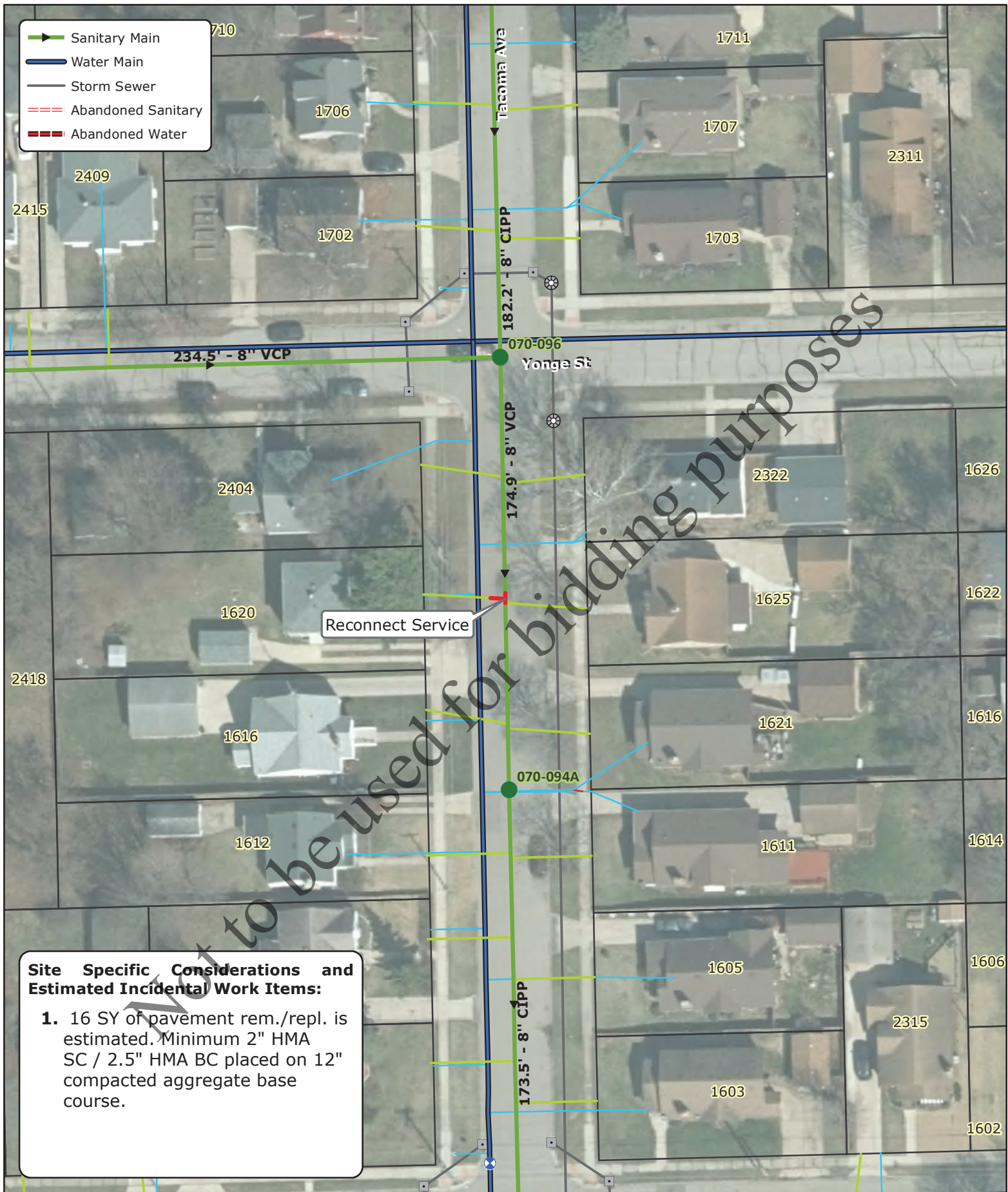
**Survey Length** 196.60 **Survey Diam** 8.00 **UP Depth** 9.50 **DWN Depth** 0.00 **Pipe Type** LINCIP

**Comments**

**Observations**

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation /<br/>Comments</u>   | <u>Severity</u>   |
|--------------|-------------|-----------------|---|---|
| B            | 0.00        | -               | MANHOLE   | UPSTREAM MANHOLE  |
| B            | 16.20       | 3 -             | LATERAL<br>7421 Orion Street - District crews pushed 4" PVC pipe and installed c.o. at property line. 6/16/04 Installed saddle tee on main 11/11/20 | FACTORY SERVICE - RIGHT   |
| B            | 59.20       | 10 -            | LATERAL<br>7422 Orion Street - District crews pushed 4" PVC pipe on 2/27/96 and installed new wye on 4/26/96.                                       | FACTORY SERVICE - LEFT  |
| B            | 82.10       | 3 -             | LATERAL<br>7425 Orion Street - District crews pushed 4" PVC pipe and installed c.o. at property line. 6/16/04 HEAVY ROOTS AT MAIN.                  | FACTORY SERVICE - RIGHT<br>Reconnect service to 7425 with new wye or tee fitting. |
| B            | 108.80      | 9 -             | LATERAL<br>7426 Orion Street - District crews pushed 4" PVC pipe and installed c.o. at property line. 10/21/03 MEDIUM ROOTS AT MAIN.                | FACTORY SERVICE - LEFT<br>Reconnect service to 7426 with new wye or tee fitting.  |
| B            | 144.00      | 2 -             | LATERAL<br>1801 Mars Avenue - District crews pushed 4" PVC pipe on 4/7/93 and installed new wye on 9/3/99.  | FACTORY SERVICE - RIGHT   |
| B            | 178.20      | 10 -            | LATERAL<br>7430 Orion Street - District crews pushed 4" PVC pipe on 4/12/93 and installed new wye on 9/21/05.                                       | FACTORY SERVICE - LEFT  |
| B            | 196.60      | -               | MANHOLE   | DOWNSTREAM MANHOLE  |





**Site Specific Considerations and Estimated Incidental Work Items:**

1. 16 SY of pavement rem./repl. is estimated. Minimum 2" HMA SC / 2.5" HMA BC placed on 12" compacted aggregate base course.

## Capital Project #2354 - Map 40

**Report Date** Friday, March 25, 2022 **Group Inspection #** 27782 **Page** 1

**Inspection #** 94830 **Activity** PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7  
**From ID** SMH 070096 **To ID** SMH 070094A **Length** 174.90  
**Address** TACOMA AVE  
ROCKFORD IL  
**Location** @ YONGE ST

**Started** Wednesday, May 26, 2021 **Weather** 1 **Reverse Setup** ☐  
**Completed** Wednesday, May 26, 2021 **Both Directions Setup** ☐  
**Comp By** 0356 TONY RAFFERTY **Prone to Blown Toilet** ☐  
**Project** 070

**Survey Length** 174.90 **Survey Diam** 8.00 **UP Depth** 0.00 **DWN Depth** 0.00 **Pipe Type** VCP

**Comments**

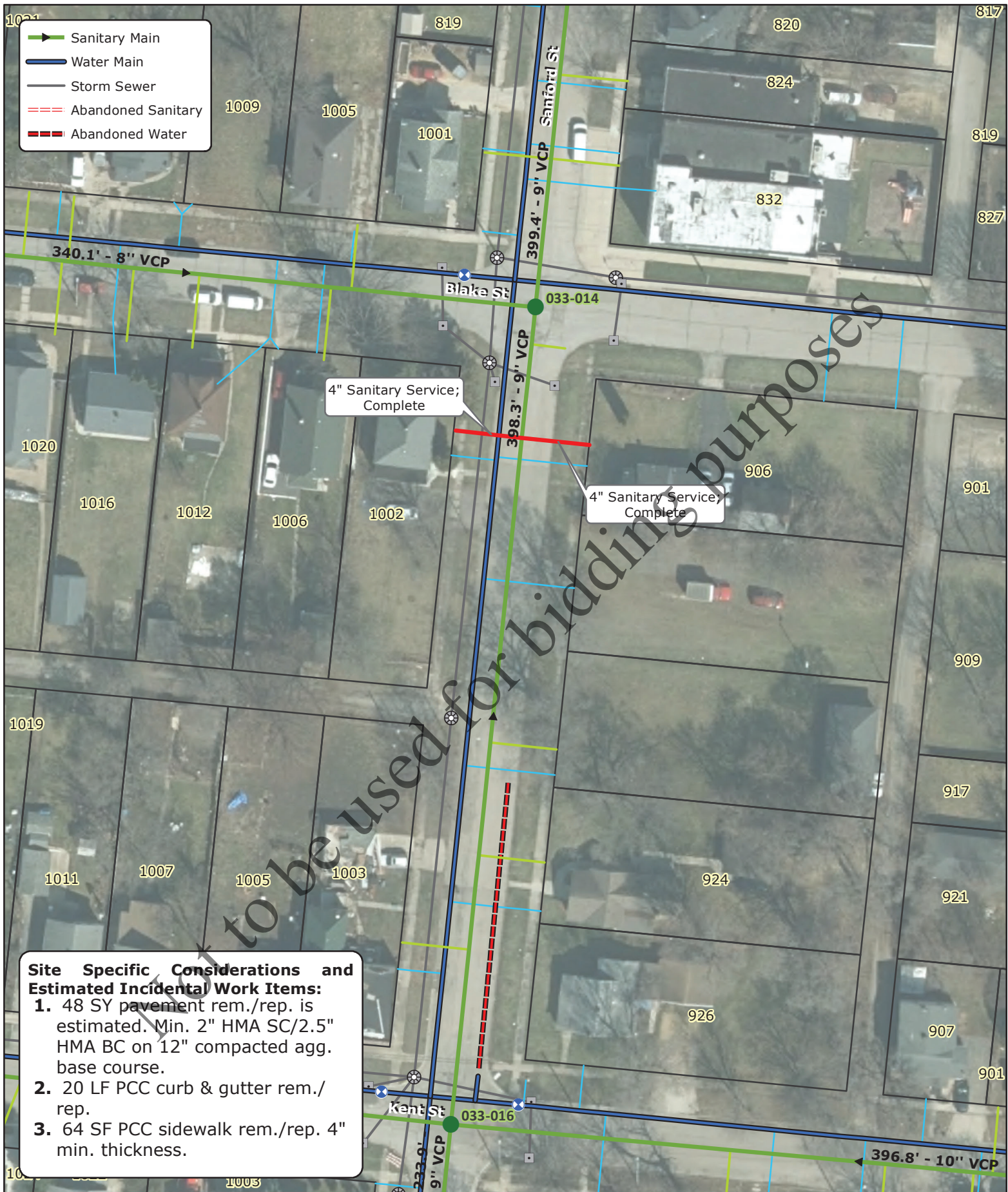
#### Observations

| <u>Setup</u> | <u>From</u> | <u>Position</u> | <u>Observation / Comments</u>  | <u>Severity</u> |
|--------------|-------------|-----------------|--|-----------------|
| B            | 0.00        | -               | Manhole 070096   | 0               |
| B            | 0.00        | -               | Water Level  | 0               |
| B            | 5.80        | 6 - 12          | Fracture Circumferential   | 2               |
| B            | 10.70       | 3 - 9           | Fracture Circumferential   | 2               |
| B            | 14.00       | 8 - 4           | Fracture Circumferential   | 2               |
| B            | 15.90       | 8 -             | Crack Longitudinal   | 2               |
| B            | 21.10       | 4 -             | Crack Longitudinal   | 2               |
| B            | 30.70       | 1 - 4           | Crack Circumferential  | 1               |
| B            | 43.70       | 12 - 12         | Fracture Circumferential   | 2               |
| B            | 49.80       | 3 -             | Defective factory made tap 3<br>VCP, LIGHT GREASE IN SERVICE           |                 |
| B            | 52.20       | 9 -             | Defective factory made tap 3<br>VCP, LIGHT GREASE AND ROOTS IN SERVICE |                 |
| B            | 84.00       | 8 - 9           | Roots Fine Joint   | 1               |
| B            | 91.50       | 12 -            | Roots Fine Joint   | 1               |

|                    |                        |                           |       |             |   |
|--------------------|------------------------|---------------------------|-------|-------------|---|
| <b>Report Date</b> | Friday, March 25, 2022 | <b>Group Inspection #</b> | 27782 | <b>Page</b> | 2 |
|--------------------|------------------------|---------------------------|-------|-------------|---|

|   |        |         |  |   |   |
|---|--------|---------|--|---|---|
| B | 96.80  | 8 - 4   | Roots Fine Joint   | 1 |   |
| B | 97.40  | 3 -     | Defective factory made tap   | 3 |   |
|   |        |         | 1620 Tacoma Ave - 4" PVC pushed with c/o at pl on 10/16/12 - HEAVY ROOTS |   |   |
|   |        |         | BLOCKING SERVICE   |   |   |
| B | 100.00 | 8 - 4   | Roots Fine Joint   | 1 | Reconnect service to 1620 Tacoma with new wye or tee fitting. |
| B | 100.60 | 9 -     | Defective factory made tap   | 3 |   |
|   |        |         | VCP, LIGHT ROOTS IN SERVICE  |   |   |
| B | 101.80 | 8 - 4   | Roots Fine Joint   | 1 |   |
| B | 104.50 | 12 - 12 | Fracture Circumferential   | 2 |   |
| B | 104.50 | 12 - 12 | Roots Fine Joint   | 1 |   |
| B | 109.40 | 8 - 4   | Roots Fine Joint   | 1 |   |
| B | 112.20 | 8 - 9   | Roots Fine Joint   | 1 |   |
| B | 114.70 | 8 - 4   | Roots Fine Joint   | 1 |   |
| B | 116.90 | 1 - 5   | Roots Fine Joint   | 1 |   |
| B | 120.00 | 1 - 5   | Roots Fine Joint   | 1 |   |
| B | 122.00 | 12 -    | Roots Fine Joint   | 1 |   |
| B | 124.60 | 7 - 5   | Crack Circumferential  | 1 |   |
| B | 124.60 | 8 - 4   | Roots Fine Joint   | 1 |   |
| B | 132.20 | 8 - 4   | Fracture Circumferential   | 2 |   |
| B | 137.00 | 8 - 9   | Roots Fine Joint   | 1 |   |
| B | 140.30 | 12 - 12 | Fracture Circumferential   | 2 |   |
| B | 148.40 | 3 -     | Tap; factory made active   | 0 |   |
|   |        |         | VCP  |   |   |
| B | 150.50 | 9 -     | Defective factory made tap   | 3 |   |
|   |        |         | VCP, LIGHT ROOTS IN SERVICE  |   |   |
| B | 174.90 | -       | Manhole  | 0 |   |
|   |        |         | 070094A  |   |   |





## Capital Project #2354 - Map 41

Jurisdiction:  
City of Rockford

Report Date Monday, March 28, 2022 Group Inspection # 28742 Page 1

Inspection # 96431 Activity PACPv7 - NASSCO Pipeline Assessment Certification Program Version 7

From ID SMH 033016 To ID SMH 033014 Length 398.30

Address SANFORD ST  
ROCKFORD IL

Location @ KENT ST

Started Monday, October 4, 2021 Weather 1 Reverse Setup ☐

Completed Monday, October 4, 2021 Both Directions Setup ☐

Comp By 0051 VINCE MANGIARACINA Prone to Blown Toilet ☐

Project 033

Survey Length 398.30 Survey Diam 9.00 UP Depth 0.00 DWN Depth 0.00 Pipe Type VCP

Comments

#### Observations

| Setup | From   | Position | Observation / Comments  | Severity |
|-------|--------|----------|---|----------|
| B     | 0.00   | -        | Manhole   | 0        |
|       |        |          | 033016 - New 4' dia. precast manhole installed by N-Trak Group 09/05/18 |          |
| B     | 0.00   | -        | Water Level   | 0        |
| B     | 1.50   | -        | Material Change   | 0        |
|       |        |          | PVC   |          |
| B     | 6.00   | -        | Material Change   | 0        |
|       |        |          | VCP   |          |
| B     | 20.90  | 12 - 12  | Crack Spiral  | 2        |
| B     | 76.70  | 2 -      | Capped factory made tap   | 0        |
| B     | 86.70  | 9 -      | Tap Factory Abandoned   | 0        |
| B     | 88.30  | 3 - 6    | Fracture Spiral   | 3        |
| B     | 126.90 | 10 -     | Capped factory made tap   | 0        |
| B     | 131.90 | 3 -      | Tap; factory made active  | 0        |
| B     | 138.10 | 2 - 5    | Crack Spiral  | 2        |
| B     | 161.50 | 7 -      | Roots Fine Joint  | 1        |
| B     | 179.40 | 10 -     | Capped factory made tap   | 0        |

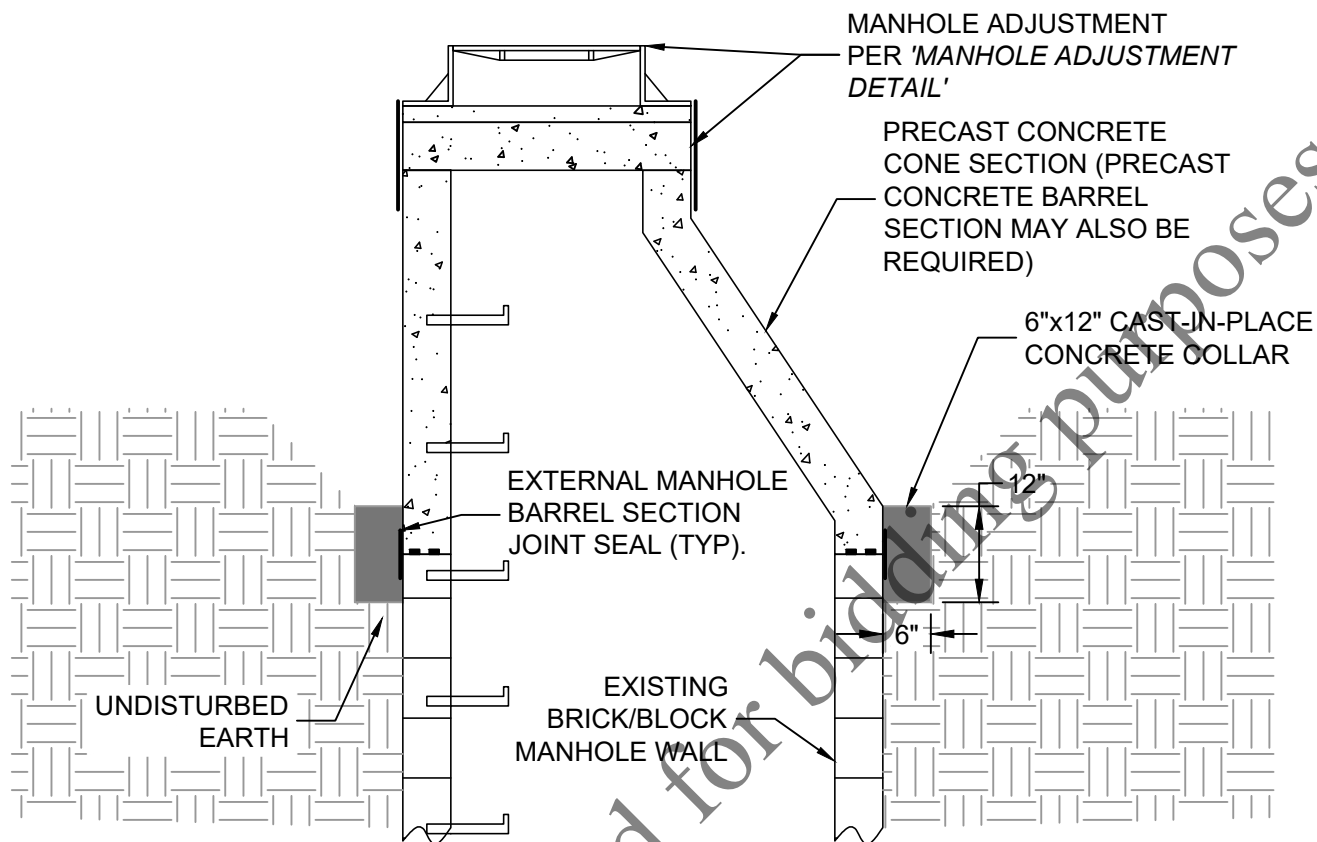
|                    |                        |                           |       |             |   |
|--------------------|------------------------|---------------------------|-------|-------------|---|
| <b>Report Date</b> | Monday, March 28, 2022 | <b>Group Inspection #</b> | 28742 | <b>Page</b> | 2 |
|--------------------|------------------------|---------------------------|-------|-------------|---|

|   |        |        |   |   |   |
|---|--------|--------|---|---|---|
| B   | 180.90 | 5 -    | Roots Fine Joint                                      | 1 |   |
| B   | 187.80 | 2 -    | Tap Break-in Active                                   | 0 |   |
| B   | 188.80 | 7 -    | Roots Fine Joint                                      | 1 |   |
| B   | 193.00 | 12 - 7 | Crack Spiral  | 2 |   |
| B   | 199.30 | 5 - 7  | Roots Fine Joint                                      | 1 |   |
| B   | 217.30 | 3 -    | Capped factory made tap                               | 0 |   |
| B   | 219.40 | 7 -    | Roots Fine Joint                                      | 1 |   |
| B   | 237.20 | 5 - 7  | Roots Medium Joint                                    | 3 |   |
| B   | 247.10 | 9 -    | Capped factory made tap                               | 0 |   |
| B   | 262.40 | 3 -    | Capped factory made tap                               | 0 |   |
| B   | 270.40 | 3 -    | Tap Break-in Intruding                                | 2 |   |
| B   | 282.50 | 9 -    | Capped factory made tap                               | 0 |   |
| B   | 330.50 | 10 -   | Capped factory made tap                               | 0 |   |
| B   | 337.50 | 12 -   | Tap Break-in Active                                   | 0 | Replace services to 906 Sanford St. and 1002 Blake St. including new wyes or tees at the main and cleanouts at the property line. |
| B   | 338.10 | 3 -    | Defective factory made tap                            | 3 |   |
| B   | 354.60 | 9 -    | HOLE IN BOTTOM OF CONNECTION<br>Fracture Longitudinal | 3 |   |
| B   | 381.80 | 3 -    | Tap Break-in Abandoned                                | 0 |   |
| B   | 382.20 | 3 -    | Crack Longitudinal                                    | 2 |   |
| B   | 393.40 | -      | Material Change<br>PVC                                | 0 |   |
| B   | 398.30 | -      | Manhole   | 0 |   |
| 033014 New 4' dia. precast manhole 09/30/21 |        |        |   |   |   |



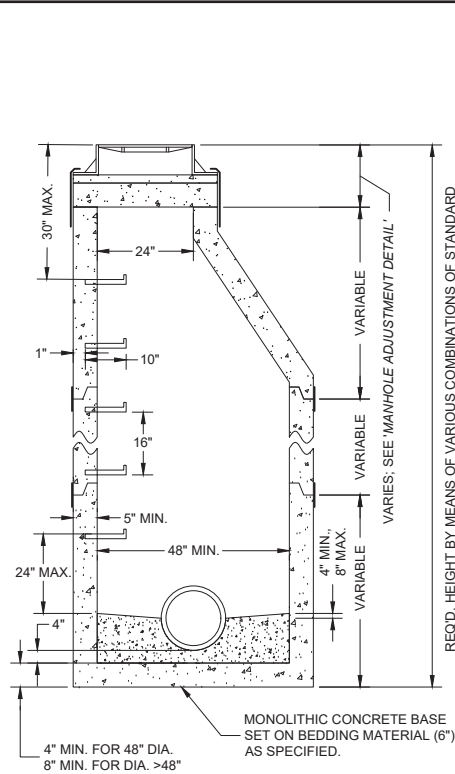
**Section IV**  
**Standard Details**

*Not to be used for bidding purposes*



#### 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.

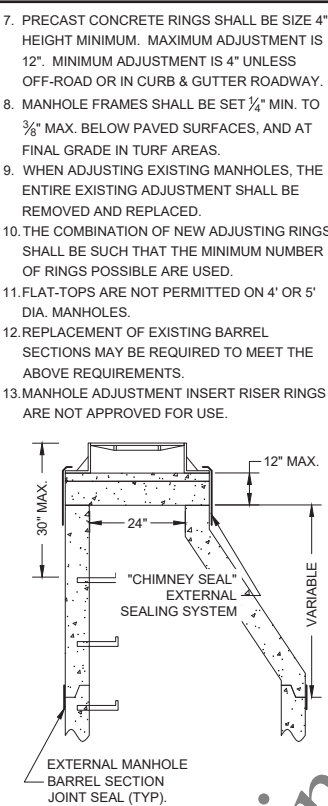


**STANDARD MANHOLE DETAIL**  
(\*MANHOLE ADJUSTMENT DETAIL\* SHALL APPLY)

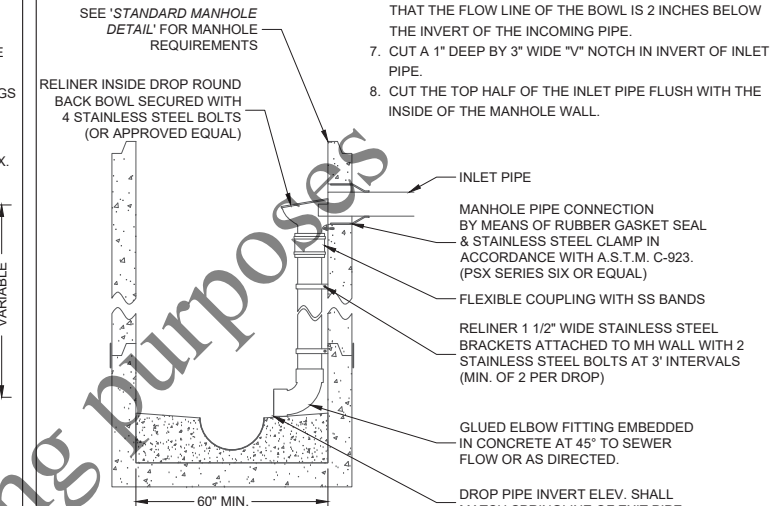
- NOTES:**
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
  2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
  3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.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

- NOTES:**
1. MANHOLE FRAMES & LIDS SHALL BE NEENAH 1670-2004 (STANDARD) FRAME WITH NEENAH R-1670-0358 LID, OR NEENAH 1670-2008 (LOW PROFILE) FRAME WITH NEENAH R-1670-0358 LID, OR APPROVED EQUAL, WITH THE EXCEPTION OF NOTE 2 BELOW.
  2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE NEENAH R-1915-2101 TYPE J FRAME WITH NENNAH R-1915-5016 (BOLT DOWN) LIDS, OR APPROVED EQUAL.
  3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
  4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT, INCLUDING FRAME TO CONCRETE JOINT. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
  5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
  6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.

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

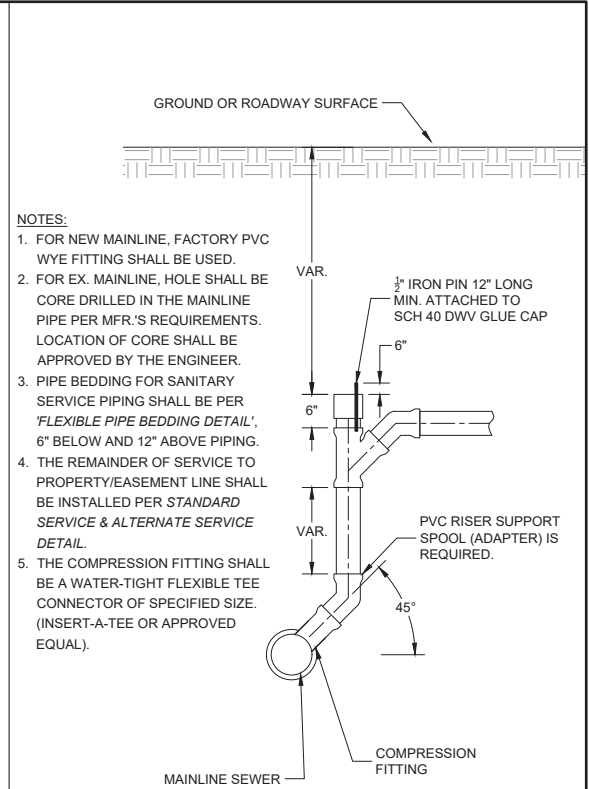


| DROP BOWL & DROP PIPE SIZING TABLE |                       |
|------------------------------------|-----------------------|
| INLET PIPE DIA.                    | DROP PIPE DIA. (MIN.) |
| 4-6 INCH                           | 4 INCH                |
| 8 INCH                             | 6 INCH   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



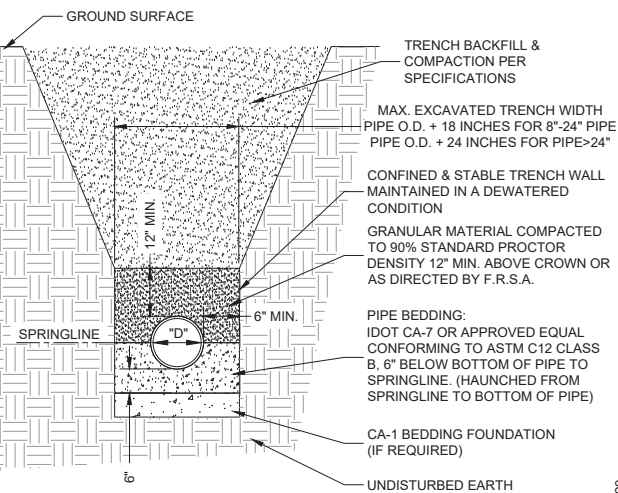
**INSIDE DROP CONNECTION DETAIL**  
(\*STANDARD MANHOLE DETAIL\* SHALL APPLY)

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



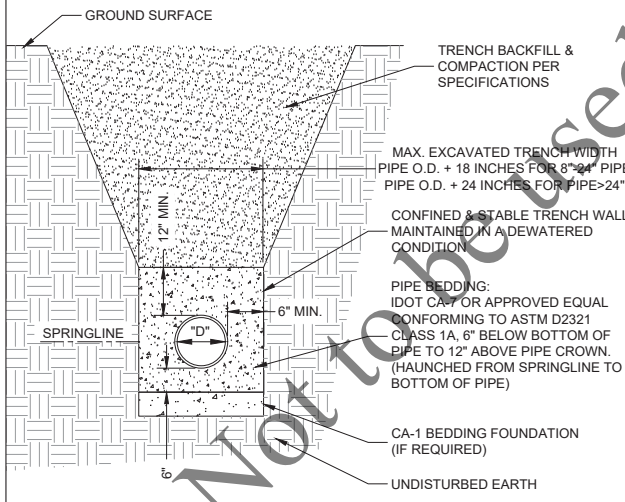
**VERTICAL SERVICE RISER DETAIL**  
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

- 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.



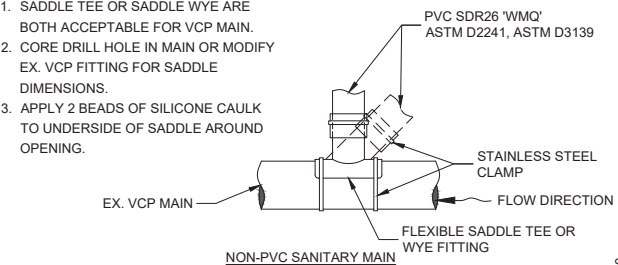
**RIGID PIPE BEDDING DETAIL**

- 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.



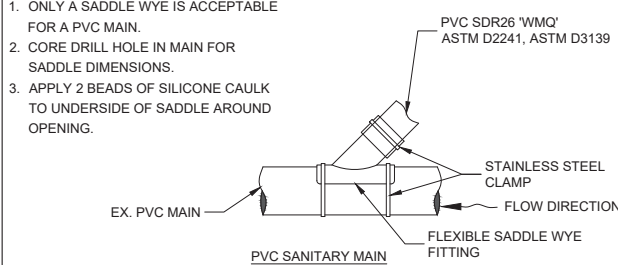
**FLEXIBLE PIPE BEDDING DETAIL**

- 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.

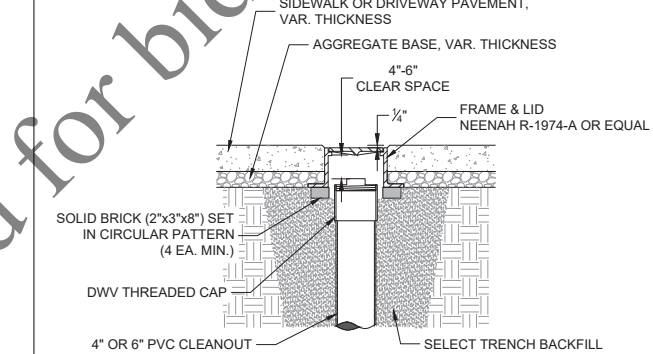


**FLEXIBLE SADDLE CONNECTION DETAIL**  
(FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)

- 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.

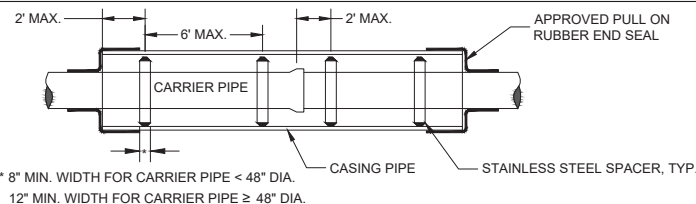


**FLEXIBLE SADDLE CONNECTION DETAIL**  
(FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)



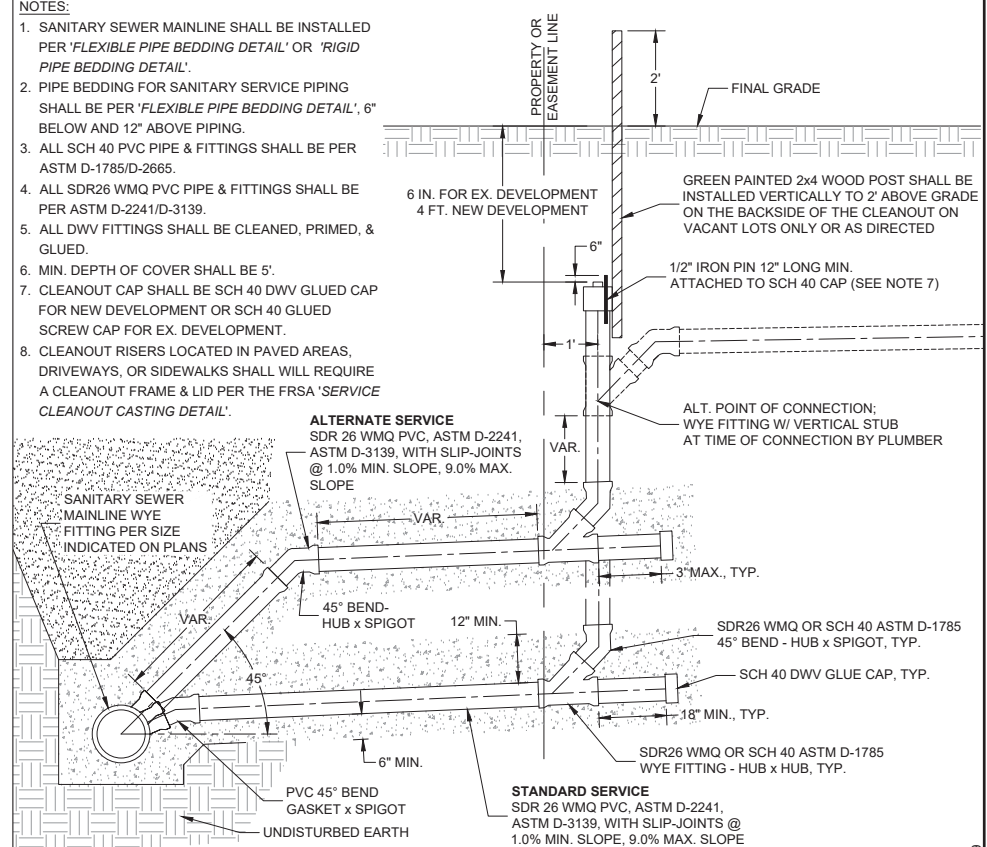
- NOTES:**
1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
  2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
  3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE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

**SERVICE CLEANOUT CASTING DETAIL**



- 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**



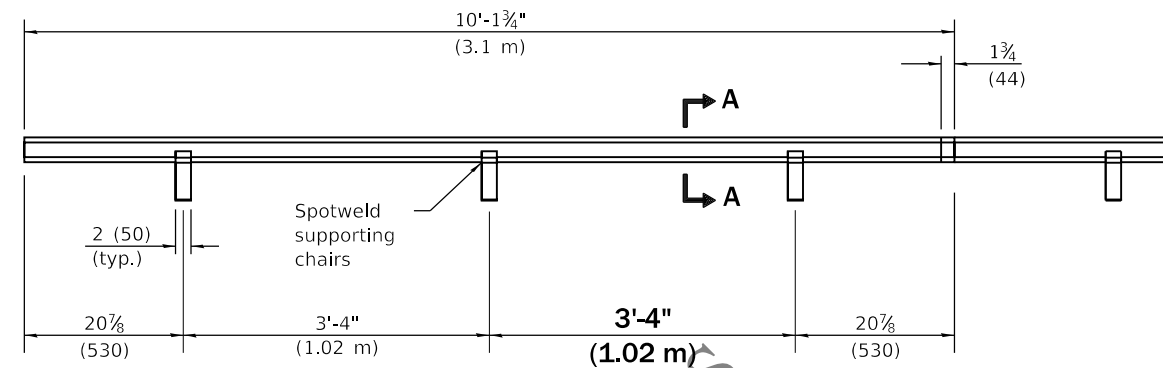
**STANDARD SERVICE & ALTERNATE SERVICE DETAIL**  
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)



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

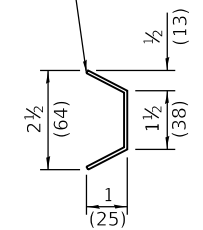
ISSUE  
01/01/2022



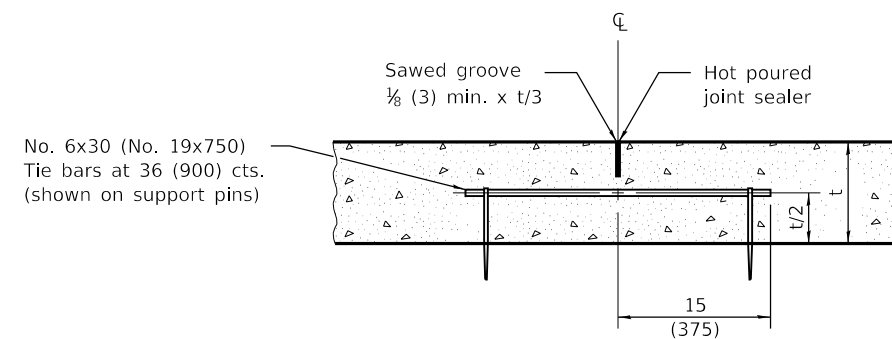


**TYPE C METAL JOINT**

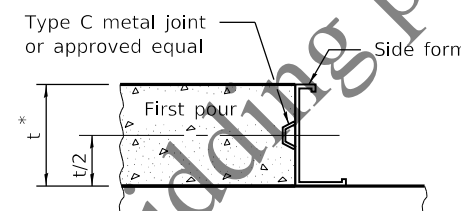
Sheet steel of suitable thickness to form keyway as detailed or approved equal.



**SECTION A-A**

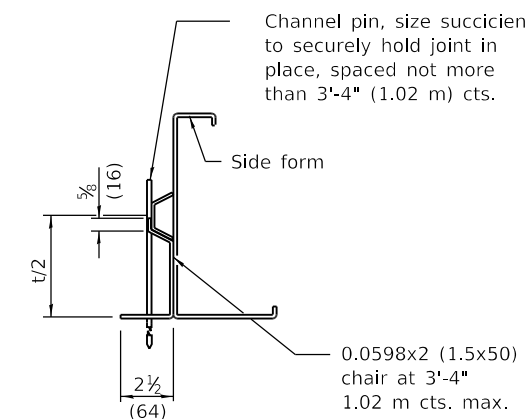


**LONGITUDINAL SAWED JOINT**

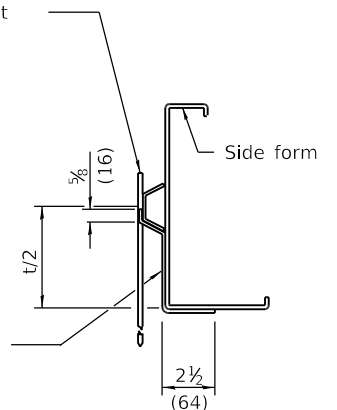


**LONGITUDINAL KEYED JOINT**

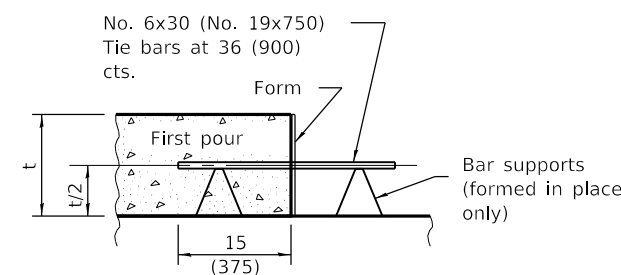
\* 8 (203) min. pavement thickness for keyed joints.



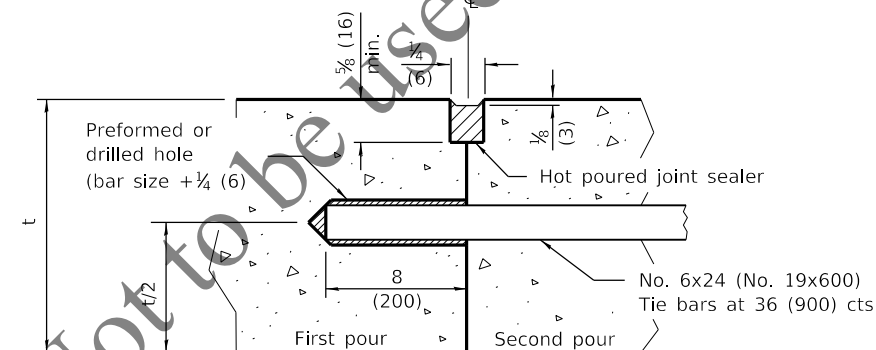
**SUPPORTING CHAIR ALTERNATE**



**SUPPORTING CHAIR ALTERNATE**



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



**LONGITUDINAL CONSTRUCTION JOINT**  
(TIE BAR GROUTED IN PLACE)

**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.

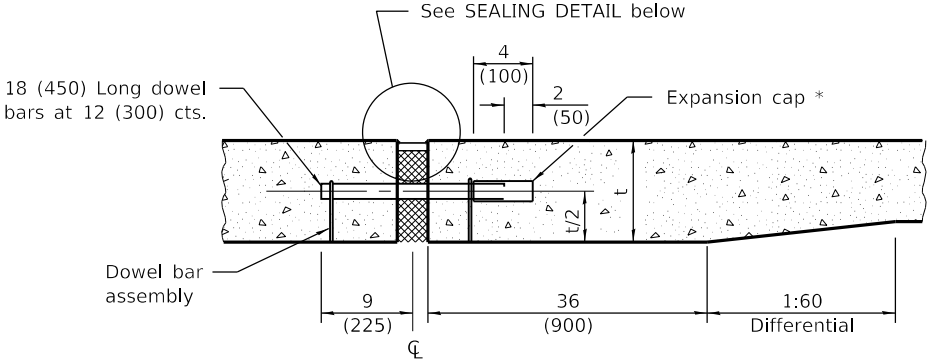
|  |               |
|--|---------------|
| Illinois Department of Transportation  |               |
| PASSED<br>January 1, 2018<br>Michael Beard<br>ENGINEER OF POLICY AND PROCEDURES  | ISSUED 1-1-97 |
| APPROVED<br>January 1, 2018<br>[Signature]<br>ENGINEER OF DESIGN AND ENVIRONMENT |               |

| DATE   | REVISIONS  |
|--------|--|
| 1-1-18 | Changed tie bar spacing to 36 (900) cts. Revised |
|        | DOWEL BAR TABEL.                                 |
| 1-1-08 | Switched units to                                |
|        | English (metric).                                |

**PAVEMENT JOINTS**

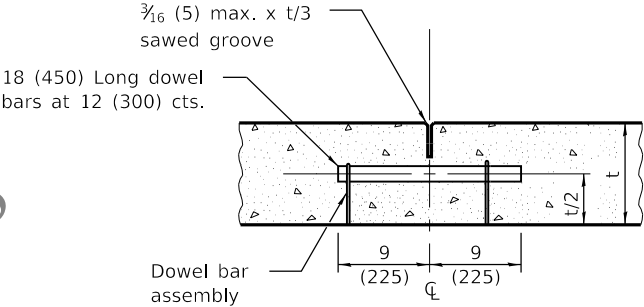
(Sheet 1 of 2)

**STANDARD 420001-09**

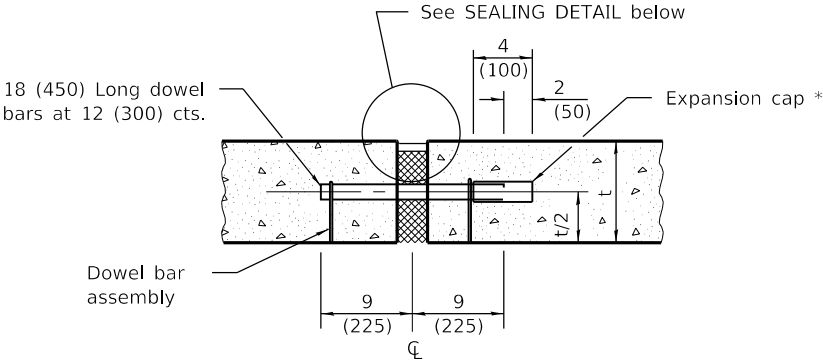


**TRANSVERSE EXPANSION JOINT**  
(FOR PAVEMENTS WITH UNEQUAL THICKNESS)

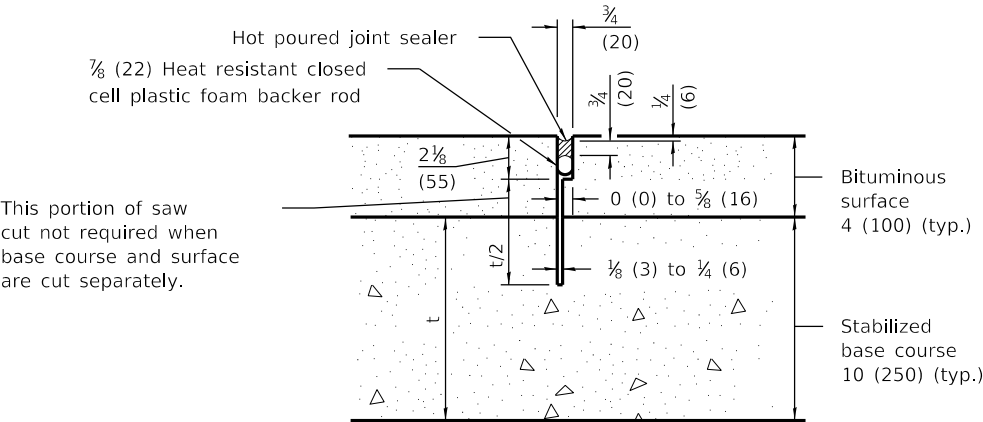
\* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



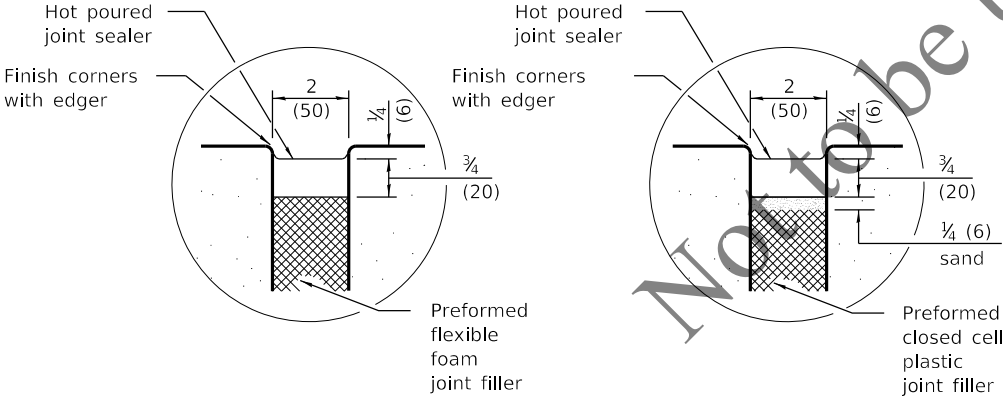
**TRANSVERSE CONTRACTION JOINT**



**TRANSVERSE EXPANSION JOINT**  
(FOR PAVEMENTS WITH EQUAL THICKNESS)

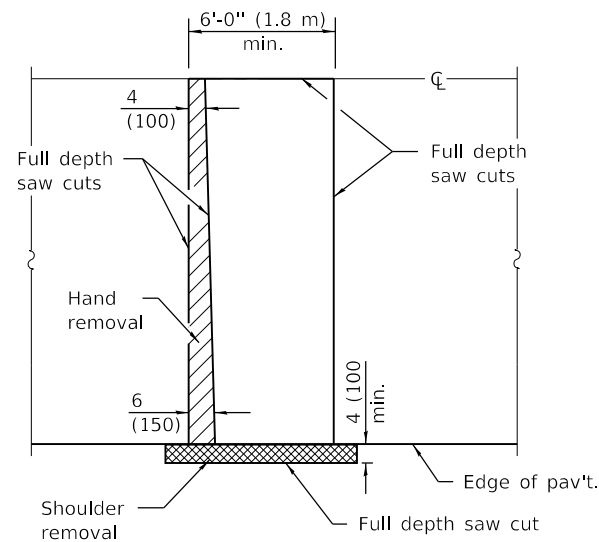


**TRANSVERSE CONTRACTION JOINT**  
(FOR CAM, CFA AND LFA BASE COURSE MIXTURES)



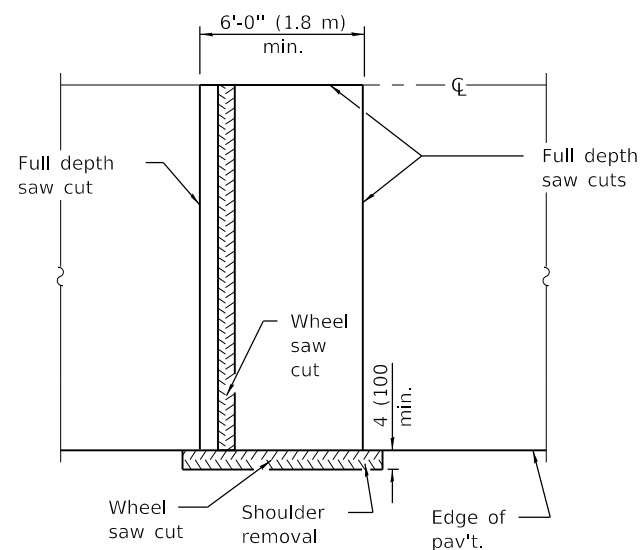
**SEALING DETAIL**

| 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)             |



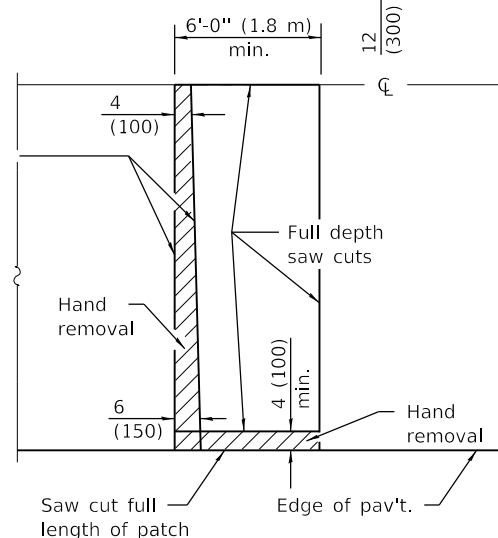
**PAVEMENT SAWING DETAIL**

(HMA SHOULDER)



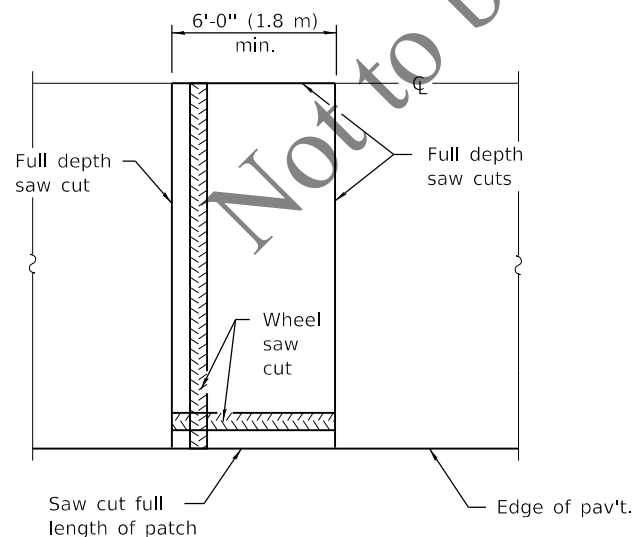
**ALTERNATE SAWING DETAIL**

(HMA SHOULDER)



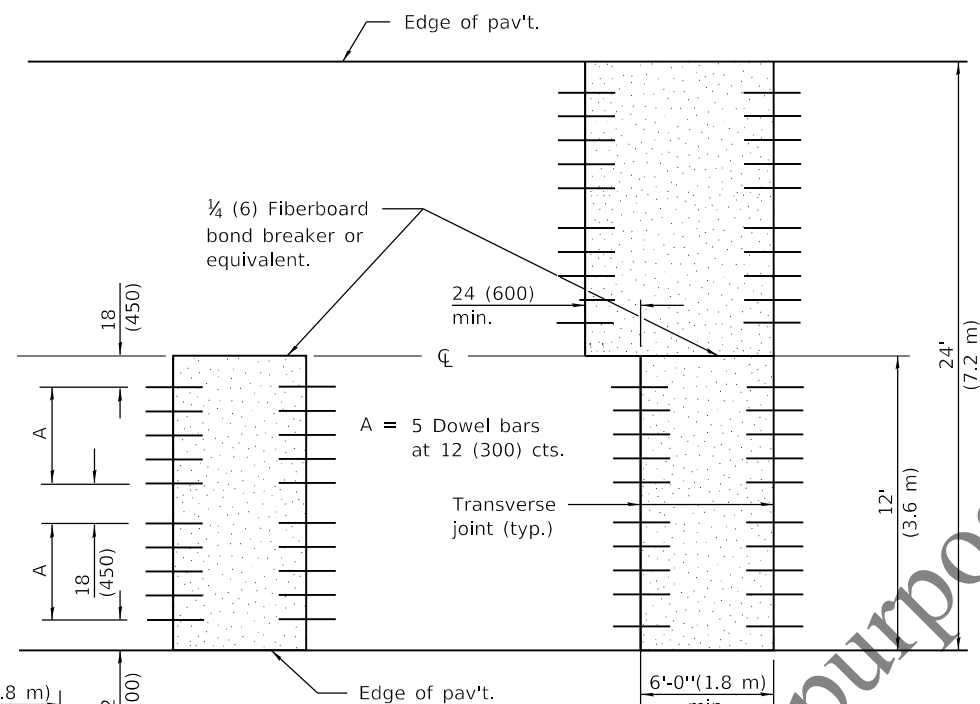
**PAVEMENT SAWING DETAIL**

(PCC SHOULDER)

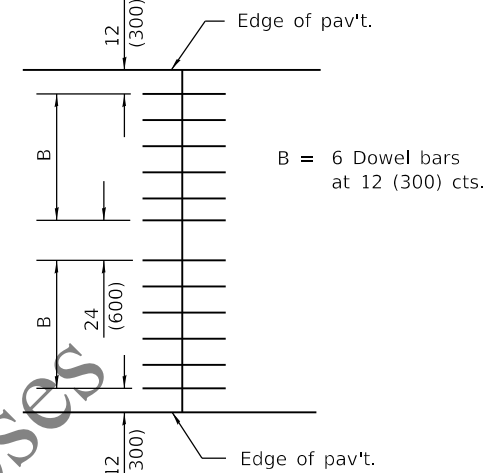


**ALTERNATE SAWING DETAIL**

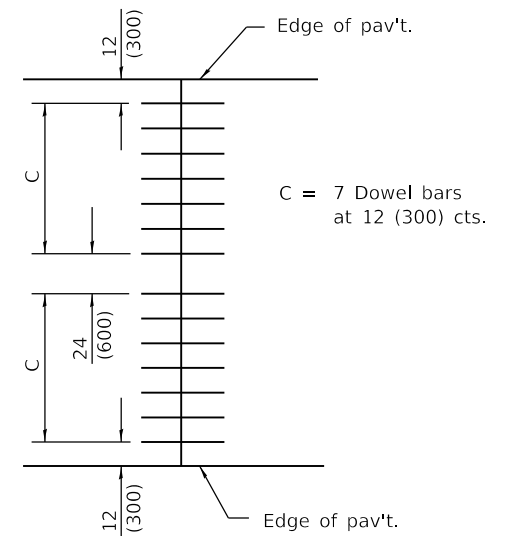
(PCC SHOULDER)



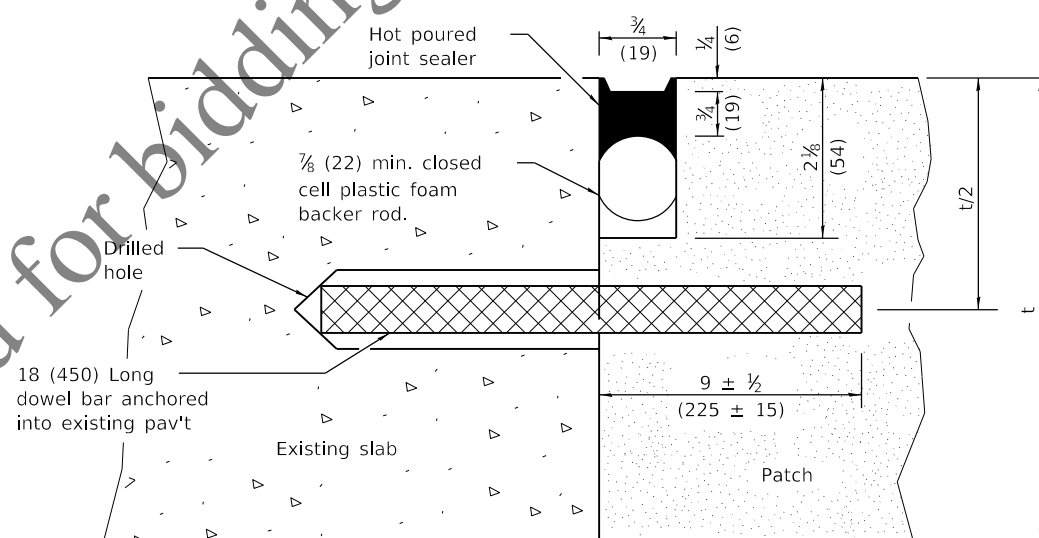
**12' (3.6 m) WIDE LANES**



**14' (4.2 m) WIDE RAMP**

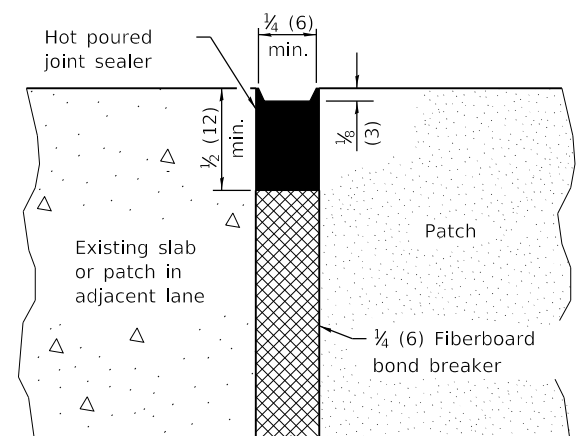


**16' (4.8 m) WIDE RAMP**



**TRANSVERSE JOINT**

| DOWEL BAR TABLE         |                    |               |
|-------------------------|--------------------|---------------|
| PAVEMENT THICKNESS      | DOWEL BAR DIAMETER | HOLE DIAMETER |
| 10 (250) or greater     | 1 1/2 (38)         | 1 3/8 (41)    |
| 8 (200) thru 9.99 (249) | 1 1/4 (32)         | 1 3/8 (35)    |
| Less than 8 (200)       | 1 (25)             | 1 1/8 (29)    |



**CENTERLINE JOINT**

### GENERAL NOTES

The transverse joints for Class B patches shall align with joints or cracks in the adjacent lane whenever possible.

See Standard 420701 for details of pavement fabric.

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

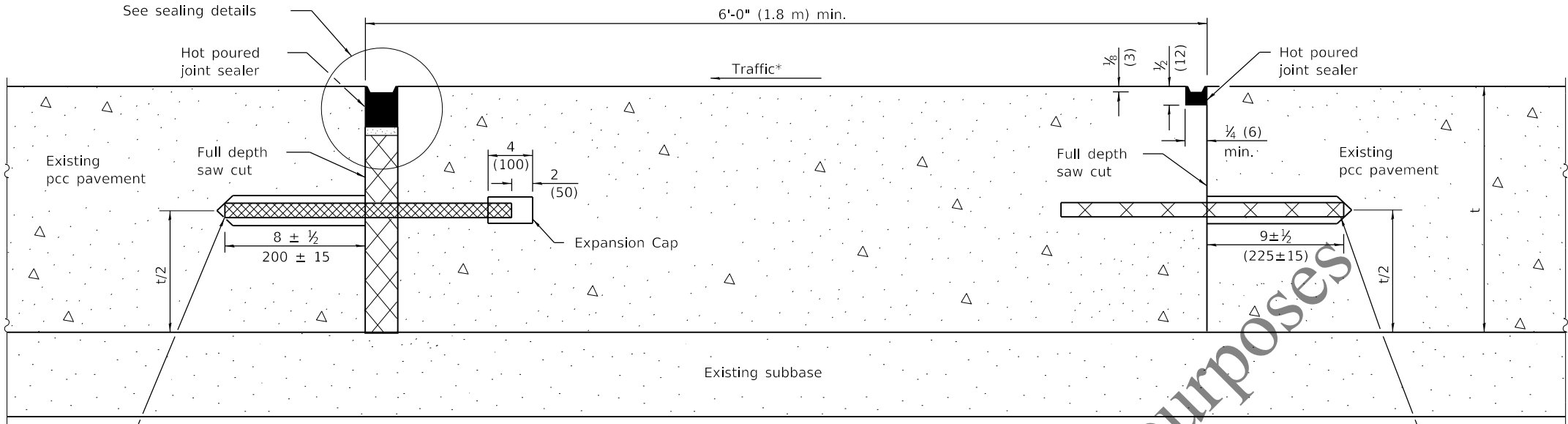
| DATE   | REVISIONS                |
|--------|--------------------------|
| 1-1-18 | Revised DOWEL BAR TABLE. |
|        |                          |
| 1-1-08 | Switched units to        |
|        | English (metric).        |
|        |                          |

## CLASS B PATCHES

(Sheet 1 of 2)

**STANDARD 442101-08**

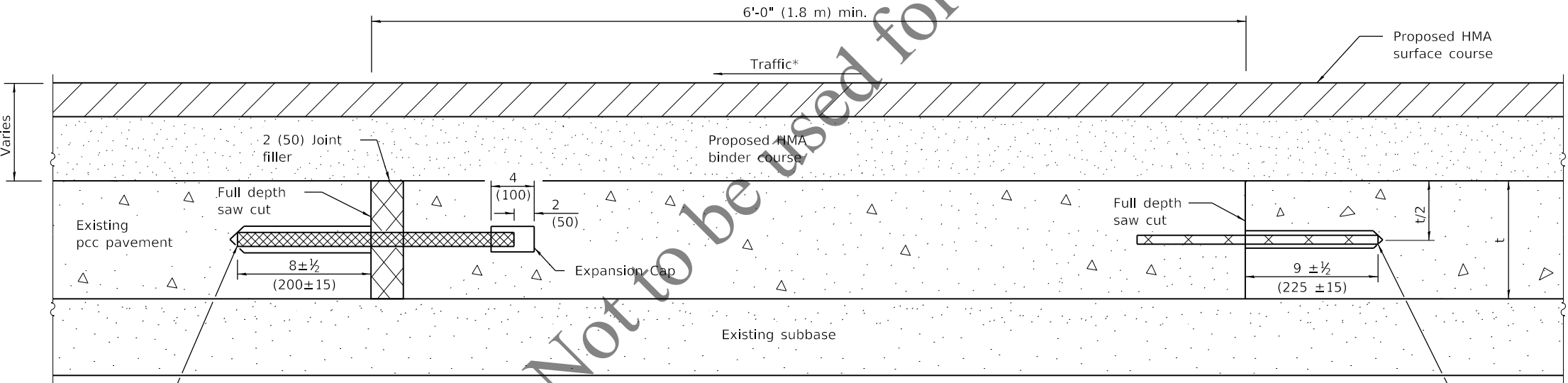




18 (450) Long dowel bars anchored into existing pavement at 12 (300) cts.

**METHOD I**  
(Without Resurfacing)

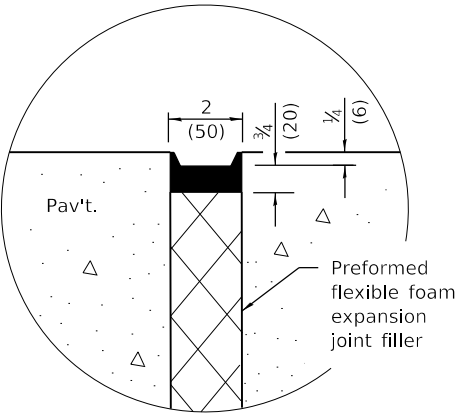
No. 10x18 (No. 32x450) Tie bars anchored into existing pavement at 12 (300) cts.



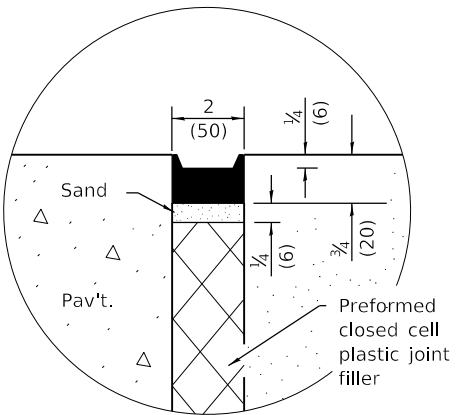
18 (450) Long dowel bars anchored into existing pavement at 12 (300) cts.

**METHOD II**  
(With Resurfacing)

No. 10x18 (No. 32x450) Tie bars anchored into existing pavement at 12 (300) cts.



**SEALING DETAIL**



**SEALING DETAIL**

**NOTE**

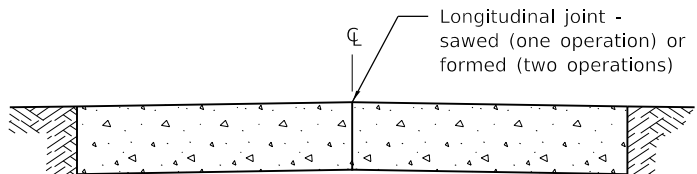
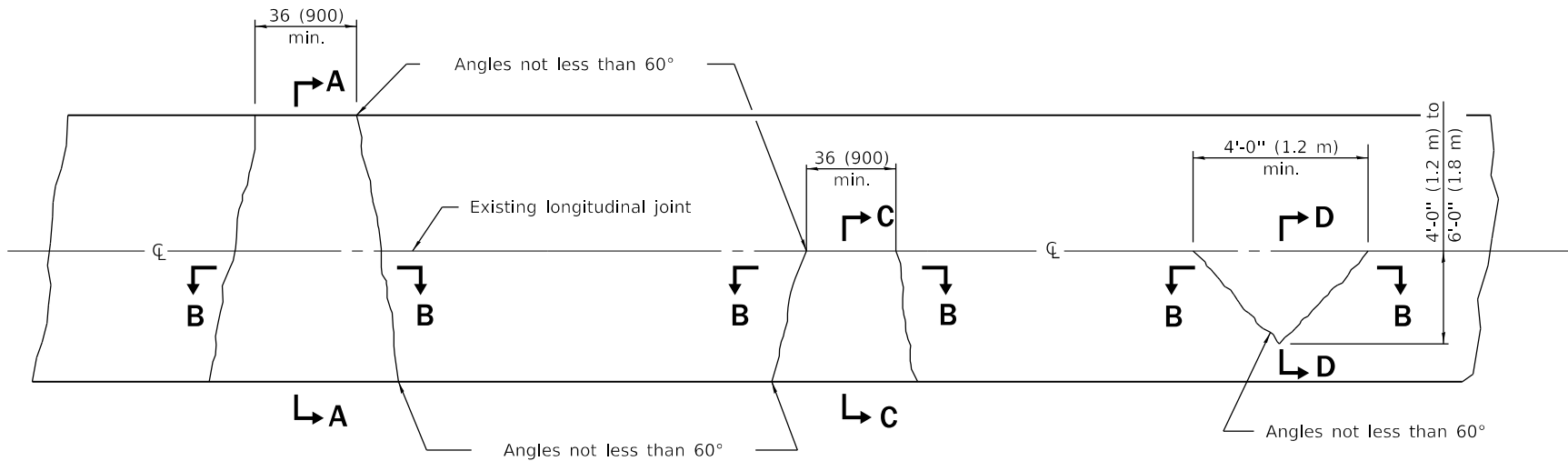
\* When re-establishing a transverse expansion joint on a two-lane, two-way road, reverse the orientation of the dowel bars with respect to traffic for one of the patches such that the joint will be continuous across both lanes.

**CLASS B PATCHES**

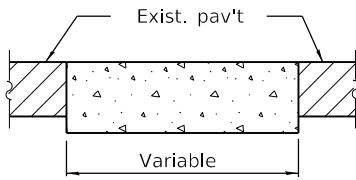
(Sheet 2 of 2)

**STANDARD 442101-08**

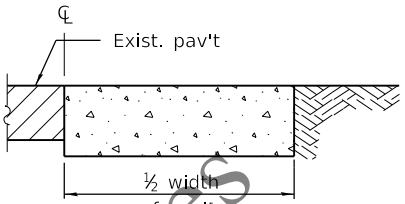
CLASS C



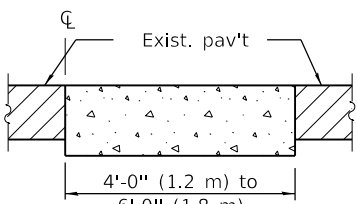
SECTION A-A



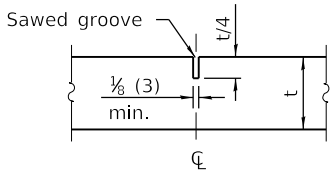
SECTION B-B



SECTION C-C



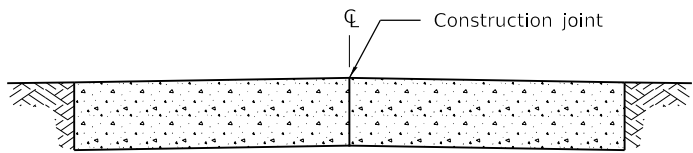
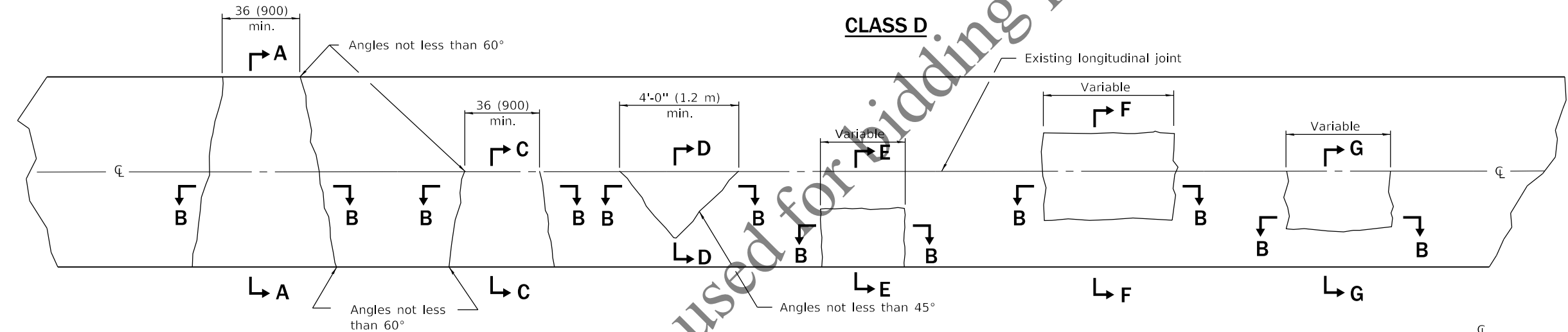
SECTION D-D



DETAIL OF SAWED CONTRACTION JOINT

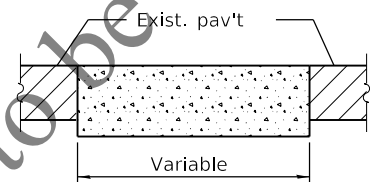
Note:  
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

CLASS D

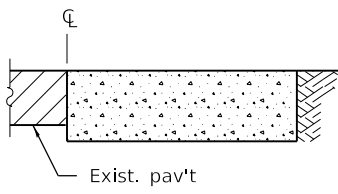


SECTION A-A

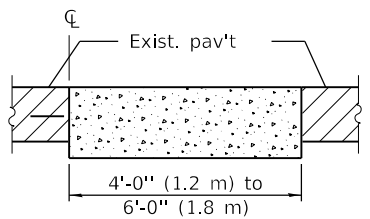
(Built in two operations)



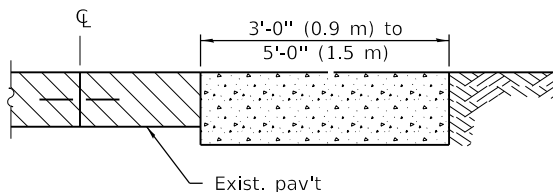
SECTION B-B



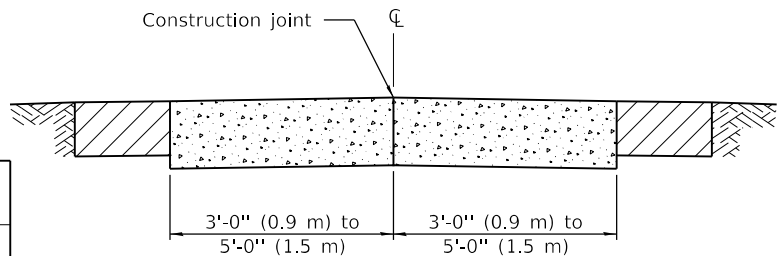
SECTION C-C



SECTION D-D

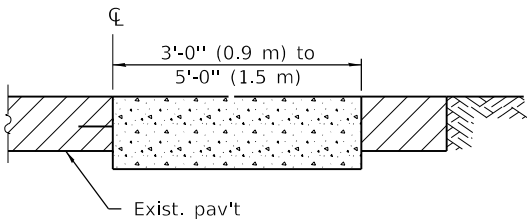


SECTION E-E



SECTION F-F

(Built in two operations)



SECTION G-G

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

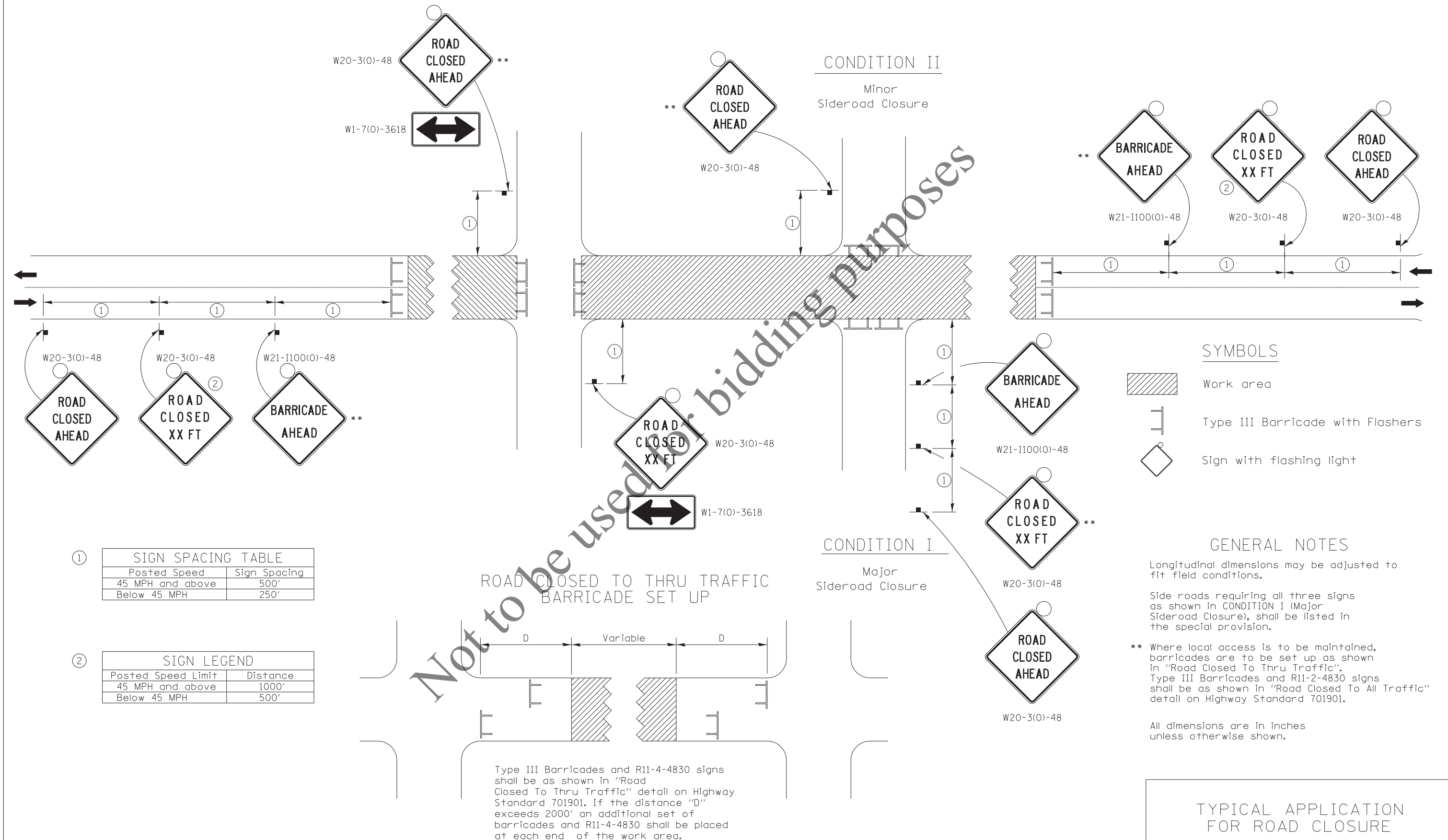
All dimensions are in inches (millimeters) unless otherwise shown.

| DATE   | REVISIONS                           |
|--------|-------------------------------------|
| 1-1-08 | Switched units to English (metric). |
| 1-1-07 | Revised Note for Class C patches.   |

CLASS C and D PATCHES

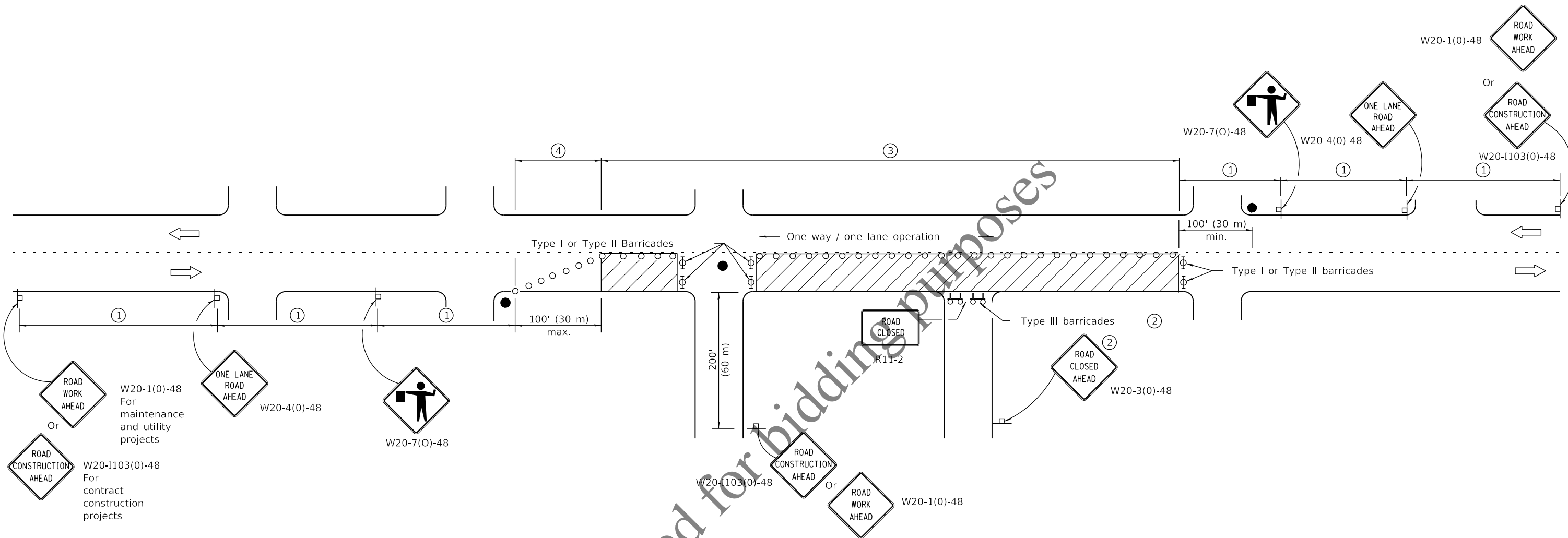
STANDARD 442201-03

# TRAFFIC CONTROL FOR ROAD CLOSURE









|                                    |                             |                            |                    |   |                                |           |           |           |         |                     |                           |           |
|------------------------------------|-----------------------------|----------------------------|--------------------|---|--------------------------------|-----------|-----------|-----------|---------|---------------------|---------------------------|-----------|
| FILE NAME =<br>District 2 Standard | USER NAME = IDOT/District 2 | DESIGNED -                 | REVISED - 8-03-17  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD |           |           | F.A. RTE. | SECTION | COUNTY              | TOTAL SHEETS              | SHEET NO. |
|                                    |                             | DRAWN -                    | REVISED - 1-05-16  |   |                                |           |           |           |         |                     |                           |           |
|                                    |                             | PLOT SCALE = 1.0000' / in. | CHECKED -          | REVISED - 8-27-13                                 |                                |           |           |           |         |                     |                           |           |
|                                    | PLOT DATE = 1/10/2019       | DATE -                     | REVISED - 10-17-11 |   | SCALE:                         | SHEET NO. | OF SHEETS | STA.      | TO STA. | CONTRACT NO.        |                           |           |
|                                    |                             |                            |                    |   |                                |           |           |           |         | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |           |





| 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.

| DATE   | REVISIONS             |
|--------|-----------------------|
| 1-1-11 | Revised flagger sign. |
|        |                       |
|        |                       |
| 1-1-09 | Switched units to     |
|        | English (metric).     |
|        | Corrected sign No.'s. |

**URBAN LANE CLOSURE,  
2L, 2W, UNDIVIDED**

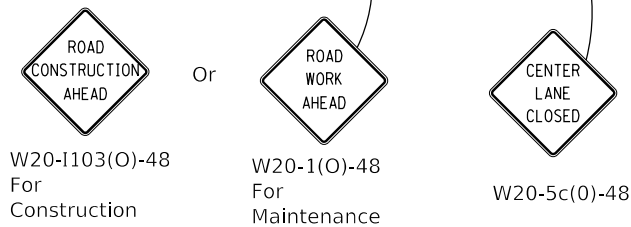
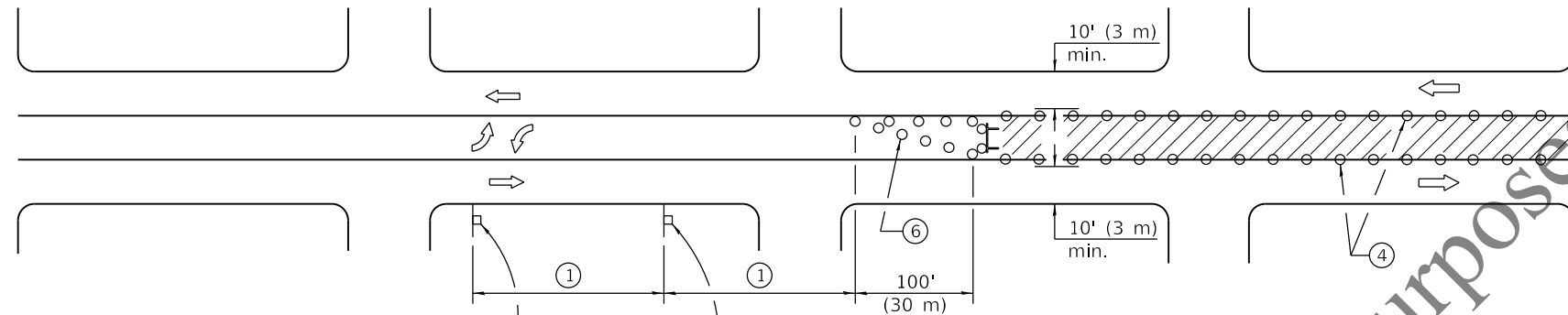
**STANDARD 701501-06**

Illinois Department of Transportation

PASSED January 1, 2011  
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2011  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



### CASE I

(Signs required for both directions)

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

- 1 Refer to SIGN SPACING TABLE for distances.
- 2 Required for speeds > 40 mph (70 km/h).
- 3 Required if work exceeds 500' (164 m) or 1 block.
- 4 Cones at 25' (8 m) centers for 250' (75 m) on approach. Additional cones may be placed at 50' (15 m) centers. When drums or type I or II barricades are used, the interval between devices may be doubled.
- 5 For approved sideroad closures.
- 6 Cones, drums or barricades at 20' (6 m) centers in taper.
- 7 Use flagger sign only when flagger is present.

### SYMBOLS

- Work area
- Barricade or drum with flashing light
- Flagger with traffic control sign
- Cone, drum or barricade
- Sign on portable or permanent support
- Type III barricade with flashing lights

### GENERAL NOTES

This Standard is used to close one lane of an urban, two lane, two way roadway with a bidirectional turn lane.

Case I applies when no workers are present. When workers are present, two lanes shall be closed and traffic control shall be according to Standard 701501.

Calculate L as follows:

| SPEED LIMIT                             | FORMULAS              |                        |
|---|-----------------------|------------------------|
|   | English               | (Metric)               |
| 40 mph (70 km/h) or less:               | $L = \frac{WS^2}{60}$ | $L = \frac{WS^2}{150}$ |
| 45 mph (80 km/h) or greater:            | $L = (W)(S)$          | $L = 0.65(W)(S)$       |
| $W$ = Width of offset in feet (meters). |                       |                        |
| $S$ = Normal posted speed mph (km/h).   |                       |                        |

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

Illinois Department of Transportation

APPROVED January 1, 2019  
*[Signature]*  
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019  
*[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-01

| DATE   | REVISIONS   |
|--------|---|
| 1-1-19 | Revised to allow cones at night.                            |
|        |   |
| 1-1-18 | Corrected sign number for TWO WAY TRAFFIC sign for CASE II. |

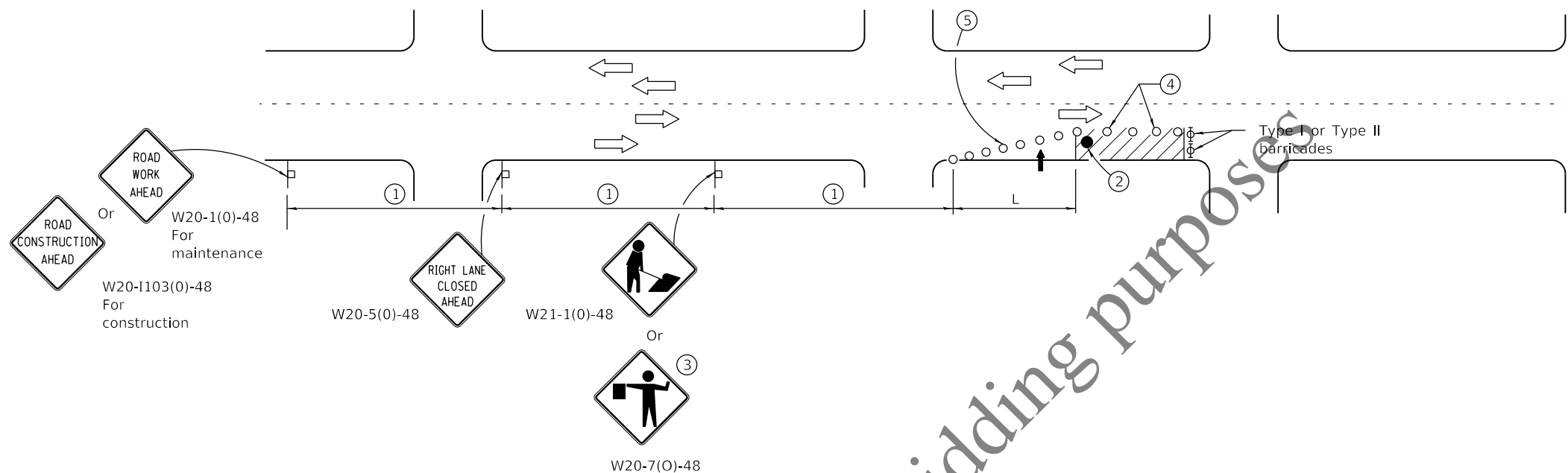
## URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE

(Sheet 1 of 2)

STANDARD 701502-09







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

### SYMBOLS

- ↑ Arrow board
- Cone, drum or barricade
- ⊥ Sign on portable or permanent support
- ▨ Work area
- ⊕ Barricade or drum with flashing light
- Flagger with traffic control sign.

- ① Refer to SIGN SPACING TABLE for distances.
- ② Required for speeds > 40 mph.
- ③ Use flagger sign only when flagger is present.
- ④ 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.
- ⑤ Cones, drums or barricades at 20' (6 m) centers in taper.

### 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.

Calculate L as follows:

| SPEED LIMIT                  | FORMULAS              |                        |
|------------------------------|-----------------------|------------------------|
|                              | English               | (Metric)               |
| 40 mph (70 km/h) or less:    | $L = \frac{WS^2}{60}$ | $L = \frac{WS^2}{150}$ |
| 45 mph (80 km/h) or greater: | $L = (W)(S)$          | $L = 0.65(W)(S)$       |

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

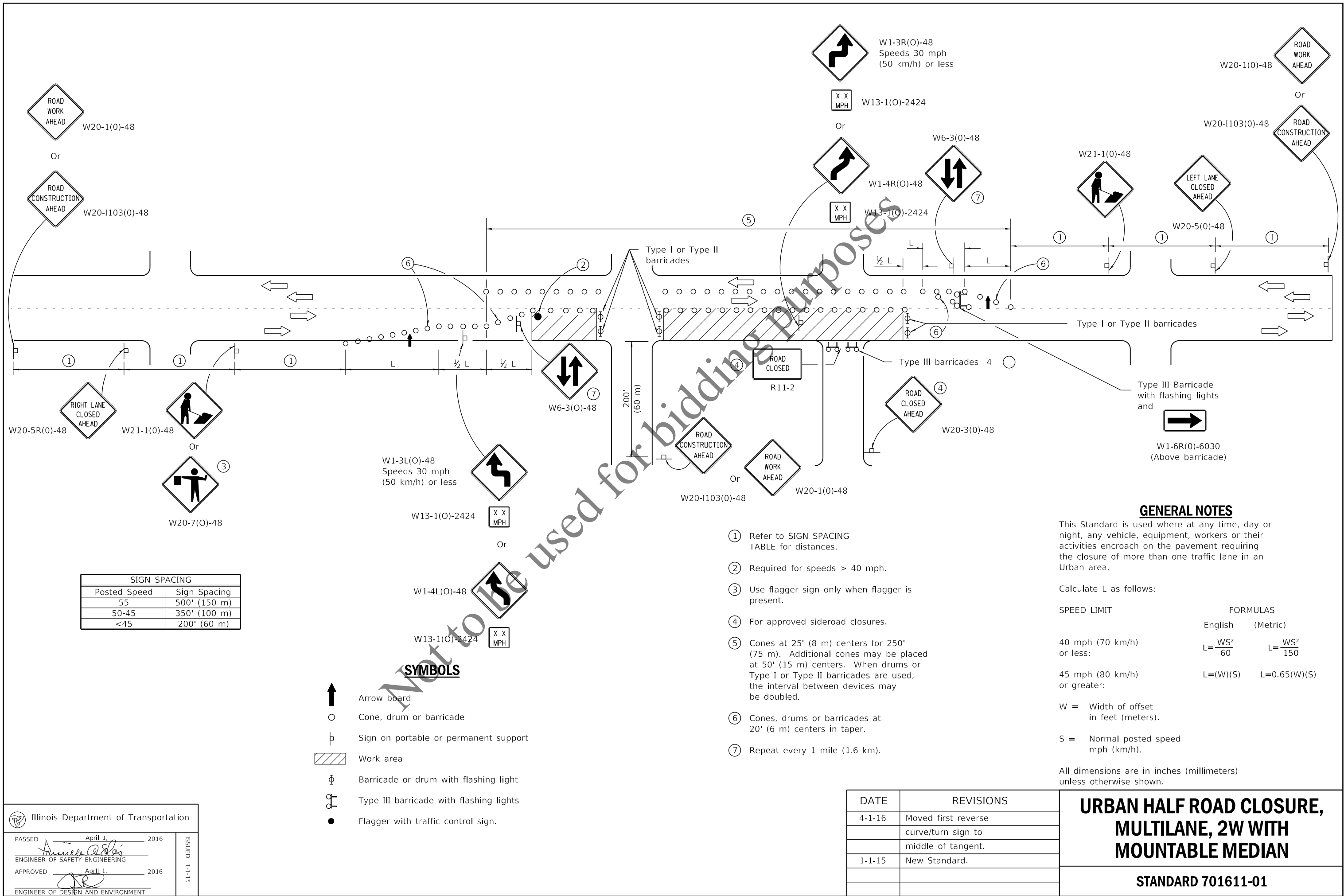
All dimensions are in inches (millimeters) unless otherwise shown.

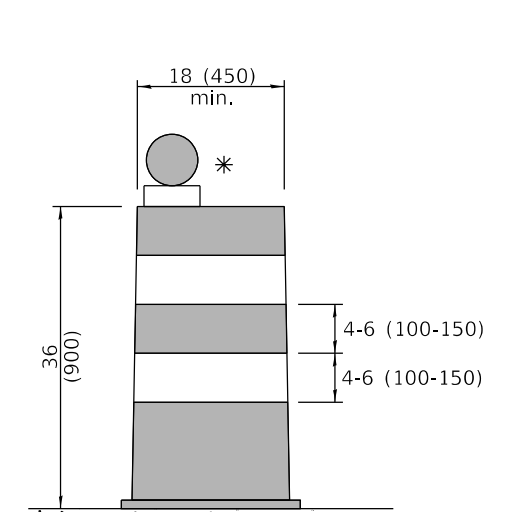
| DATE   | REVISIONS  |
|--------|--|
| 1-1-15 | Renamed standard. Moved case on Sheet 2 to new Highway Standard. |
| 1-1-14 | Revised workers sign number to agree with current MUTCD.         |

## URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN

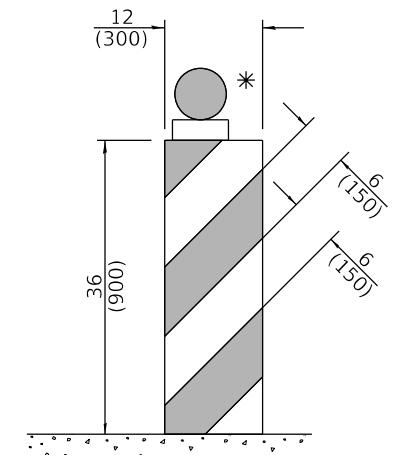
STANDARD 701606-10

|                                       |               |
|---------------------------------------|---------------|
| Illinois Department of Transportation |               |
| PASSED January 1, 2015                | ISSUED 1-1-97 |
| ENGINEER OF SAFETY ENGINEERING        |               |
| APPROVED January 1, 2015              |               |
| ENGINEER OF DESIGN AND ENVIRONMENT    |               |





**DRUM**



## VERTICAL BARRICADE

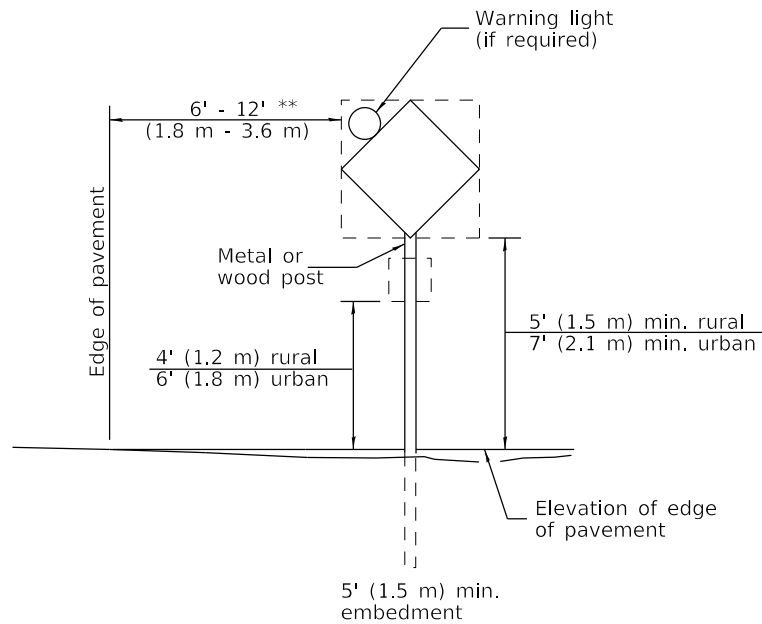


## DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

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

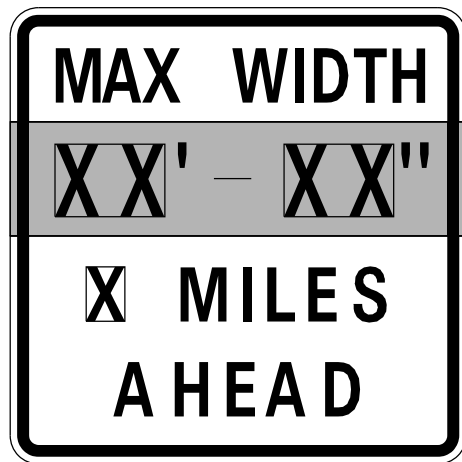
## STANDARD 701901-08





### POST MOUNTED SIGNS

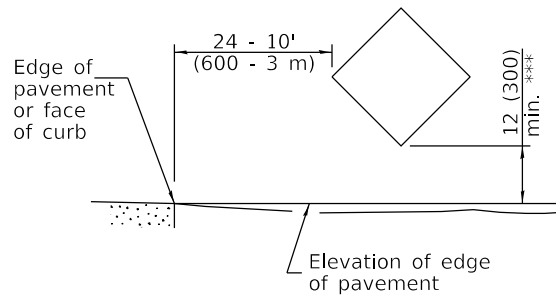
\*\* When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



W12-I103-4848

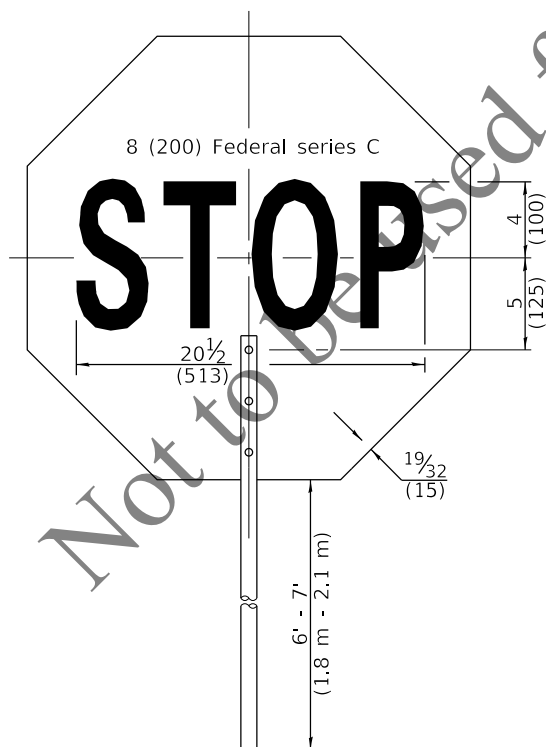
### WIDTH RESTRICTION SIGN

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

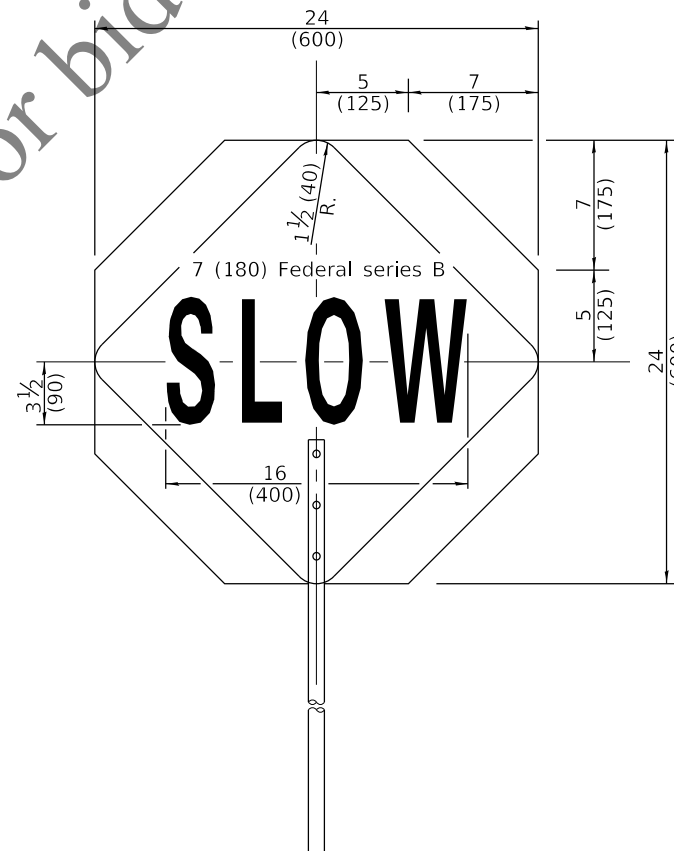


### SIGNS ON TEMPORARY SUPPORTS

\*\*\* 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.

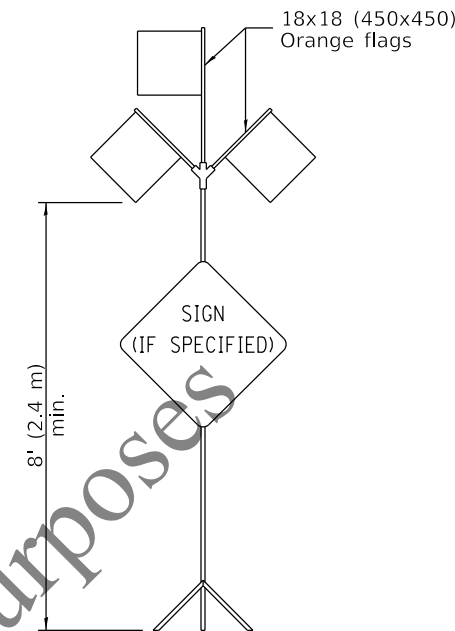


FRONT SIDE



REVERSE SIDE

### FLAGGER TRAFFIC CONTROL SIGN



### HIGH LEVEL WARNING DEVICE



G20-I104(0)-6036



G20-I105(0)-6024

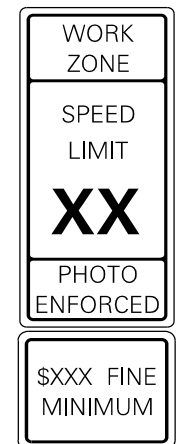
This signing is required for all projects 2 miles (3200 m) or more in length.

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



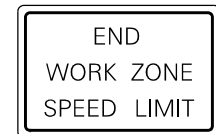
W21-III5(0)-3618

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.

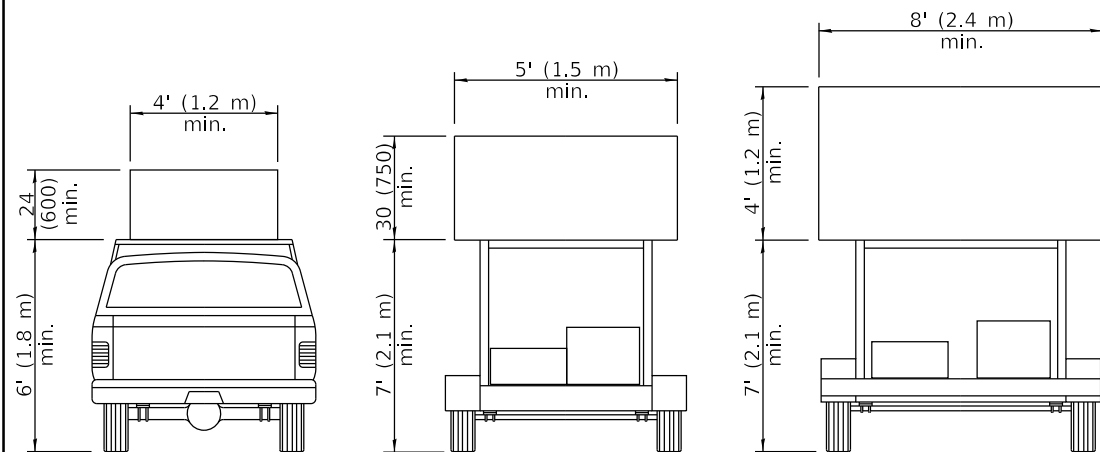
### HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

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

## TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08

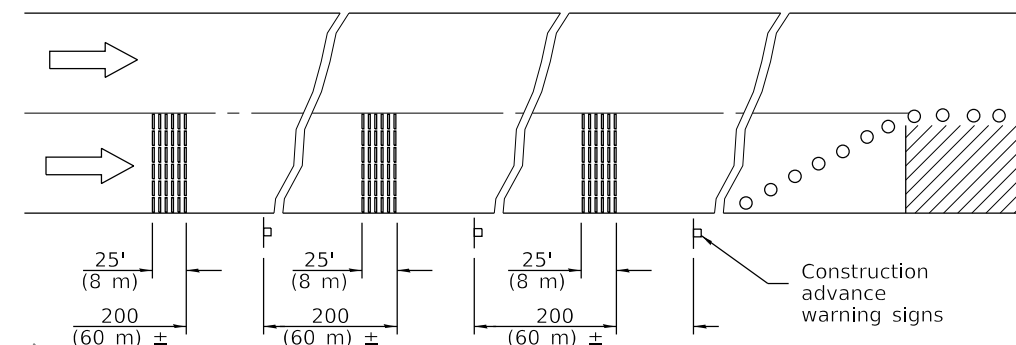
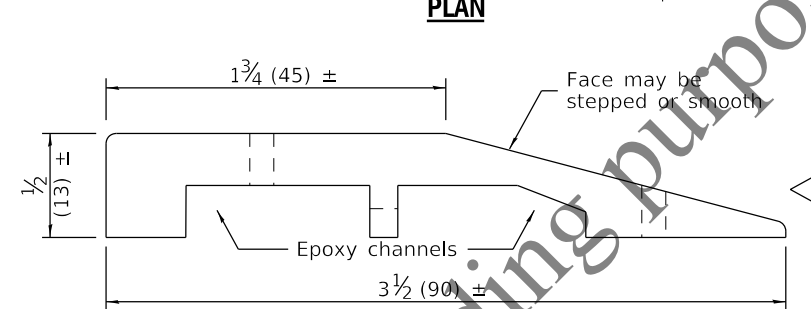
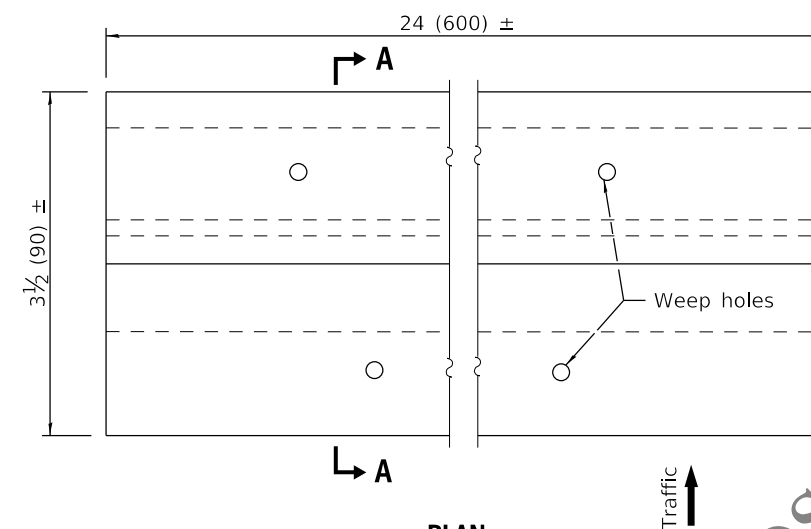


**TYPE A  
ROOF  
MOUNTED**

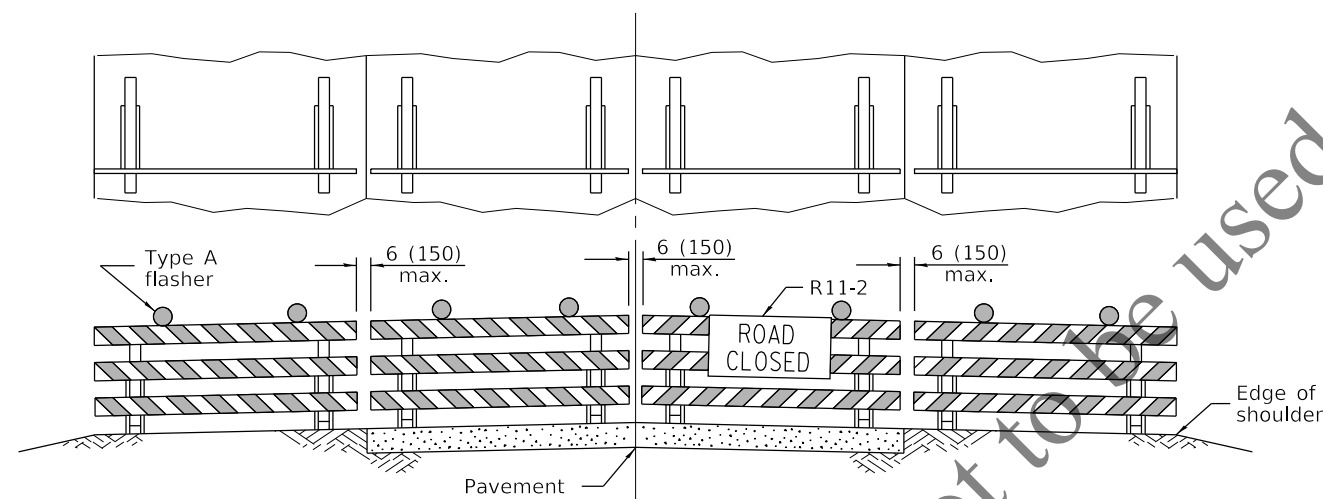
**TYPE B  
ROOF OR TRAILER  
MOUNTED**

**TYPE C  
TRAILER  
MOUNTED**

**ARROW BOARDS**

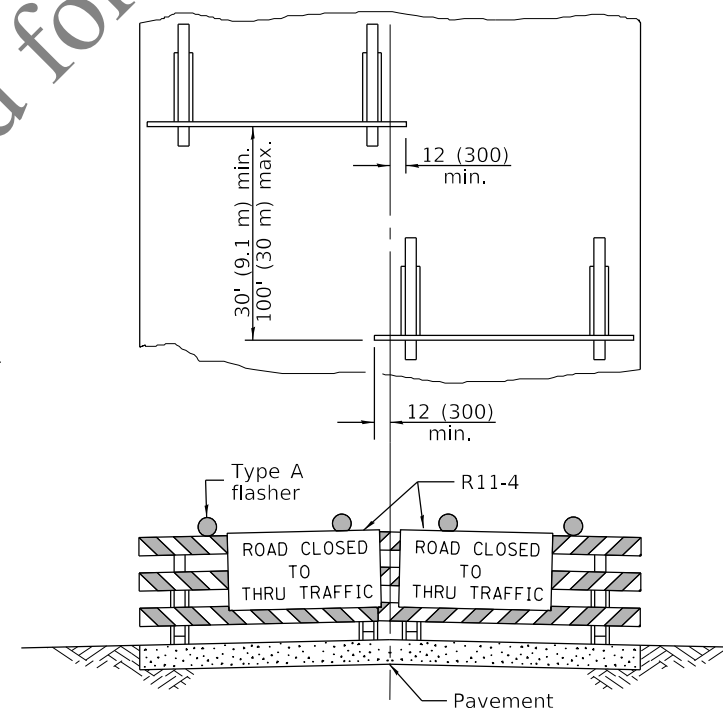


**TEMPORARY RUMBLE STRIPS**



**ROAD CLOSED TO ALL TRAFFIC**

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



**ROAD CLOSED TO THRU TRAFFIC**

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

**TYPICAL APPLICATIONS OF  
TYPE III BARRICADES CLOSING A ROAD**

**TRAFFIC CONTROL  
DEVICES**

(Sheet 3 of 3)

**STANDARD 701901-08**

**Section V**

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

(Separate document incorporated by reference)