

**Four Rivers Sanitation Authority
Rockford, Illinois**

Bidding Requirements and Contract Forms

for

2023 Manhole Replacements

Capital Project No. 2413

Four Rivers Sanitation Authority Rockford, Illinois

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

for

2023 Manhole Replacements

Capital Project No. 2413

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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 Capital Project No. 2413, 2023 Manhole Replacements, at the Steve Graceffa Administration Building (Administration Building) at 3501 Kishwaukee Street, Rockford, Illinois until 11:00 a.m. on Tuesday, August 22, 2023, at which time and place responsive / responsible bids will be publicly opened and read aloud.

The 2023 Manhole Replacements project consists of the removal and replacement of seven (7) existing sanitary manholes. Scope of work also includes pavement restoration, traffic control, and all other appurtenances as indicated in the bid 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, Project work shall be completed by October 31, 2023. Liquidated damages shall be \$300.00 per calendar day.

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

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

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

Each Proposal must be accompanied by the FRSA Bid Bond form with an acceptable Bid Security attached, in the amount of 10 percent (10%) of the total bid price. This amount is a guarantee that, if the Proposal is accepted, a Contract will be entered into and its performance properly secured.

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 No Bid shall be withdrawn without FRSA's consent for a period of sixty (60) days after the scheduled closing time for receipt of bids.

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

Dated this 20th day of August, 2023.


BY: Timothy S. Hanson, Executive Director

Article 2 — Instructions to Bidders

1 General

1.1 Scope and Intent

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

1.2 Contradictions

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

2 Legal Requirements

2.1 Illinois Regulations

A. Public Act 100-1177 (820 ILCS 130/) entitled the "Prevailing Wage Act" requires the Bidder to comply with prevailing wages in accordance with the Illinois Department of Labor Standards. The State of Illinois requires contractors and subcontractors on FRSA projects to submit certified payroll reports via the State's Certified Transcript of Payroll Portal currently found at: <https://www2.illinois.gov/idol/Laws-Rules/CONMED/Pages/certifiedtranscriptofpayroll.aspx>. The Bidder is responsible for verifying current information at the State's website.

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

The provisions of this Section shall not apply:

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

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

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

D. Public Act 101-0221 entitled the “Workplace Transparency Act” requires that any party to a contract adopt and promulgate written sexual harassment policies that include, as a minimum, the following information:

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

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

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

2.2 Americans with Disabilities Act

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

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

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

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

3 General Instructions

3.1 Bidder's Responsibility

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

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

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

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

3.2 Addenda and Interpretations

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

3.3 Laws and Regulations

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

3.4 Quantities Estimated Only

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

3.5 Form, Preparation, and Presentation of Proposals

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

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

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

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

3.6 Bid Security

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

Within ten (10) days after the 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

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

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

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

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

3.10.1 Evaluation of Responsiveness

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

3.10.2 Evaluation of Responsibility

To be judged as responsible, the bidder shall:

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

3.11 The Rejection of Bids

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

3.12 Insurance and Bonding

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

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

3.12.1 General

The Contractor shall ensure that:

- A. All insurance policies shall be specific to the project.
- B. The insurance certificate shall state: This certifies that the insurance coverage meets or exceeds that required for 2023 Manhole Replacements, Capital Project No. 2413.

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

3.12.2 Insurance

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

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

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

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

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

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

3.12.3 Best's Ratings

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

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

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

3.12.4 Performance Bond and Labor & Materials Payment Bond Form

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

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

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

3.12.5 Correction of Contractor's Insurance or Bond Deficiencies

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

3.12.6 Indemnification Clause

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

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

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

3.13 Tax Exemption

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

Article 3 – Detailed Specifications

1 General

1.1 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 *Standard Specifications for Water and Sewer Main Construction in Illinois, Four Rivers Sanitation Authority (FRSA) General Provisions and Technical Specifications for Sanitary Sewer Construction*, and the *Illinois Department of Transportation's (IDOT's) Standard Specifications for Road and Bridge Construction*.

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

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

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

The general location of the proposed work is outlined on the plans. Minor variations in alignment may be made to facilitate construction operations with prior FRSA approval.

Any construction not supervised by a FRSA Inspector will not be accepted.

In accordance with G.C. 12:1 of FRSA's *General Provisions and Technical Specifications for Sanitary Sewer Construction*, any damage caused by the Contractor's operations to areas outside of the specified project limits, including but not limited to roadway pavements, driveway pavements, drainage structures, storm sewer, underground utilities, overhead utilities, turf areas, cultivated areas, and landscaped areas shall be repaired and/or replaced by the Contractor at no additional cost to the Contract.

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

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. 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	Jordan.masemoore@rockfordil.gov

The application for a City of Rockford Right-of-Way permit may be obtained online at <https://rockfordil.gov/DocumentCenter/View/1055/Right-of-Way-Permit-Application-PDF>.

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 separate payment will be made for costs associated with permit procurement and compliance. Costs shall be incidental to the Contract.

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. The Contractor must 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.

The Contractor's proposed sequence of work shall be outlined in the Project Schedule and shall be submitted to FRSA prior to beginning any work.

3.2 Access

The Contractor shall be responsible for the temporary maintenance of all affected 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).

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 required work.

3.3 Required Submittals

1. Project Schedule

3.4 Measurement and Payment

No separate payment will be made for costs associated with notification, access, and special considerations. Costs shall be incidental to the Contract.

4 Remove Sanitary Manhole

4.1 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.

4.2 Submittals – Not used.

4.3 Payment

This work will be paid for at the Contract unit price per Each (EA) for Remove Sanitary Manhole.

5 Sanitary Manholes

5.1 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*.

5.2 Manhole Frames, Lids, and Adjustments

Frames and lids shall be manufactured by Neenah Enterprises or East Jordan Iron Works as noted on the *FRSA Standard Detail Sheet*.

When specified or required by FRSA, a low-profile frame shall be Neenah Enterprises R1670-2008 (4" frame height) with a R-1670-0358 lid.

Unless otherwise specified or shown, manhole frames shall be set at one inch (1") above finish grade in turf areas and 1/4" - 3/8" beneath finished grade in paved areas. 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.

A single concrete adjusting ring is allowed. Minimum ring thickness for concrete adjustment rings shall be four inches (4"). Concrete adjustment rings shall conform to ASTM C478 and ASTM C139, latest revision. If adjustment less than 4" is required, expanded polypropylene (EPP) rings must be utilized. EPP rings may be used in conjunction with a concrete ring provided they are placed above the concrete ring.

All concrete adjusting ring joints shall be sealed with two (2) beads of 1" wide pre-formed butyl rubber joint sealant.

When a manhole frame requires pitching to match the road grade, a tapered expanded polypropylene (EPP) ring must be used.

The Contractor shall install a FRSA-approved external chimney seal on all proposed manholes as indicated on the *Standard Detail Sheet*.

5.3 Manhole Steps

Manhole steps shall be Neena R-1982-F or M.A Industries PS-1 or FRSA approved equal. Steps shall be installed per the manufacturer's direction with a maximum spacing of 16". Steps for manholes containing drop pipe assemblies shall be installed in the field to coordinate cone section orientation with step alignment.

5.4 Precast Base, and Pipe Connections

Unless noted otherwise, manhole bases shall be manufactured 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.

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.

All barrel joints shall be sealed with a 3 1/2" x 3/8" pre-formed butyl rubber joint sealant on the lower ship lap and an external barrel seal centered on the exterior joint of the assembled sections (Mar Mac Macwrap, or approved equal).

Pipe connections to new manholes shall be made by means of a watertight flexible-pipe-to-manhole adapter meeting the requirements of ASTM C923. The design shall be in

accordance with the manhole and pipe manufacturer requirements and shall receive prior FRSA approval.

All connections to the new manholes shall be made with PVC SDR 35 (ASTM 3034) for diameters of 8" through 15" pipe. A minimum of 3.0' of new PVC pipe shall be installed at each connection to existing sanitary sewer.

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 (minimum 8" diameter). All mounting and connecting hardware shall be constructed of stainless steel.

5.5 Testing

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

5.6 Submittals

1. Manhole shop drawings including a specific detail for each manhole showing the number and height of barrel sections, height of cone section, 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 frame and lid dimensioned shop drawings.
3. Chimney seal material specifications.
4. Barrel joint seal material specifications.
5. Manhole-to-pipe connection seal material specifications.
6. Manhole step material specifications.
7. Sealant material specifications.
8. Drop assembly material specifications (as applicable).

5.7 Payment

This work will be paid for at the Contract unit price per Each (EA) for Sanitary Manhole, of the diameter and type specified, complete in place.

6 Sanitary Sewers

6.1 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's *General Provisions and Technical Specifications*.

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

The Contractor shall be solely responsible for setting and maintaining proper elevations, lines, and grades for all work and shall have a calibrated level and grade rod available on site at all times for FRSA use. The FRSA shall not be obliged to establish construction grade or alignment.

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.

6.2 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.

6.3 Required Submittals

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

6.4 Measurement and Payment

This work will be paid for at the Contract unit price per Linear Foot (LF) for 8" Dia. or 10" Dia. Sanitary Sewer, SDR 35, complete, in place.

7 Sewer Service Reconnection

7.1 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*. Bedding and backfill shall be included and shall comply with specifications provided elsewhere herein. All work shall be performed in accordance with State and local plumbing codes.

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

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

Connection to new sewer main shall be made with a factory wye or tee fitting.

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.

7.2 Submittals

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

7.3 Payment

This work will be paid for at the Contract unit price per Each (EA) for Sewer Service Reconnection ,6", complete, in place.

8 Rock Excavation

8.1 General

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

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

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

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).

8.2 Materials – Not used.

8.3 Required Submittals – Not used.

8.4 Payment

This work will be paid for at the Contract unit price per Cubic Yard (CY) for Rock Excavation. 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.

9 Bypass Pumping

9.1 General

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

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

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

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

9.2 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.

9.3 Payment

No separate payment will be made for costs associated with bypass pumping. Costs shall be incidental to the Contract.

10 Dewatering

10.1 General

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

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

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

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

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

10.2 Submittals

1. Copy of permits, as applicable.

10.3 Payment

No separate payment will be made for costs associated with dewatering. Costs shall be incidental to the Contract.

11 Bedding, Backfill and Compaction

11.1 Pipe Bedding

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

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

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

11.2 Backfill and Compaction

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

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

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

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

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

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

The Contractor shall provide a two (2) year guarantee against trench settlement throughout this project upon completion of construction at no additional cost to the Contract.

11.3 Submittals

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

11.4 Payment

No separate payment will be made for costs associated with bedding, backfill and compaction. Costs shall be incidental sanitary sewer pay items.

12 Pavement Removal

12.1 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.

12.2 Submittals – Not used.

12.3 Payment

This work will be paid for at the Contract unit price per Square Yard (SY) for Pavement Removal regardless of the type and depth of pavement removed.

13 Remove & Replace Combination Curb and Gutter, Type M6.18 (Modified)

13.1 General

This work shall conform to Section 606 of the *IDOT Standard Specifications* and consist of installation of concrete curb and gutter as shown on the plans. Curb and gutter shall include “spill-out” and “depressed” sections at the locations as directed by FRSA. For payment purposes, all concrete curb and gutter sections will be regarded as the same type – no separate pay distinction will be made for standard, spill-out, or depressed curb and gutter types.

Removal of existing combination curb and gutter shall conform to section 440 of *the IDOT Standard Specifications*. Existing curb and gutter shall be saw cut full depth at the limits of removal. New curb and gutter shall be doweled to existing with two (2) 1” diameter dowel bars.

13.2 Materials

Portland cement concrete mix shall be Class SI per Article 1020.04 of the *IDOT Standard Specifications*.

13.3 Required Submittals

A. PCC mix designs

13.4 Payment

This work will be paid for at the Contract unit price per Linear Foot (LF) for Remove and Replace Combination Curb and Gutter, Type M-6.18, complete in place.

14 Hot-Mix Asphalt

14.1 General

Hot-mix asphalt shall be of the type and thickness specified and shall be placed over the entire area disturbed in the original pavement. All work under this section shall be in accordance with the *IDOT Standard Specifications*, the requirements of the jurisdictional roadway authority and the requirements of FRSA, including the *General Provisions and Technical Specifications for Sanitary Sewer Construction*.

Mix designs and materials inspection reports must be submitted to FRSA for approval prior to the start of construction.

Vibrating rollers will not be allowed on residential streets unless prior permission is received by the Engineer and the jurisdictional authority. In the absence of a vibratory roller on streets, densities shall be ninety-five percent (95%) minimum unless otherwise allowed by the Engineer.

14.2 Materials

Hot-mix Asphalt shall be in accordance with Section 1030 of the *IDOT Standard Specifications for Road and Bridge Construction*, Current Edition.

14.3 Required Submittals

1. HMA mix designs.
2. Material Inspection Reports

14.4 Measurement and Payment

This work will be paid for as hereafter outlined in the following sections under the various hot-mix asphalt pay items.

15 Class D Patches, 4"

15.1 General

This work shall be completed in accordance with the requirements of Section 442 of the *IDOT Standard Specifications* and shall consist of placement of hot-mix asphalt patches on an at various locations as directed by FRSA. This patch shall be constructed of two lifts of hot-mix asphalt material; 2 1/4" of hot-mix asphalt binder course and 1 3/4" of hot-mix asphalt surface course. Prior to placement of binder course, a prime coat shall be applied to the aggregate base course in accordance with Article 406.05 of the *IDOT Standard Specifications*.

Paving shall be in accordance with T.S. 4:3/Pavement Restoration of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*, and with Section 406 of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition, and shall be performed to the satisfaction of FRSA and the jurisdictional roadway authority.

15.2 Materials

HMA binder course shall be mixture IL-19.0, N50 in accordance with Section 1030 of the *IDOT Standard Specifications for Road and Bridge Construction*, Current Edition.

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

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

15.3 Required Submittals

1. HMA mix designs.
2. Prime Coat material certifications.

15.4 Measurement and Payment

This work will be paid for at the Contract unit price per Square Yard (SY) for **Class D Patches, 4”**, complete, in place.

16 Class D Patches, 6”

16.1 General

This work shall be completed in accordance with the requirements of Section 442 of the *IDOT Standard Specifications* and shall consist of placement of hot-mix asphalt patches on an as-needed basis at various locations as directed by FRSA. This patch shall be constructed of two lifts of hot-mix asphalt material; 4” of hot-mix asphalt binder course and 2” of hot-mix asphalt surface course. Prior to placement of binder course, a prime coat shall be applied the aggregate base course in accordance with Article 406.05 of the *IDOT Standard Specifications*.

Paving shall be in accordance with T.S. 4:3/Pavement Restoration of the *General Provisions and Technical Specifications for Sanitary Sewer Construction*, and with Section 406 of the *IDOT Standard Specifications for Road and Bridge Construction*, current edition, and shall be performed to the satisfaction of FRSA and the jurisdictional roadway authority.

16.2 Materials

HMA Binder Course shall be mixture IL-19.0, N50 in accordance with Article 1030 of the *IDOT Standard Specifications* (or other as approved by FRSA).

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

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

16.3 Required Submittals

1. HMA mix designs.
2. Prime Coat material certifications.

16.4 Measurement and Payment

This work will be paid for at the Contract unit price per Square Yard (SY) for **Class D Patches, 6”** complete, in place.

17 Aggregate Base Course, Type B, 12”

17.1 General

This work shall consist of placing compacted Aggregate Base Course, Type B at locations and as directed by FRSA. Compacted depth shall be 12”. and shall include subgrade preparation, removal and disposal of excess material, furnishing, placing, installing and compacting coarse aggregate, and trimming and prepping aggregate base for subsequent pavement placement. All work shall be in accordance with Section 351 of the IDOT *Standard Specifications for Road and Bridge Construction*, Current Edition.

17.2 Materials

Aggregate base course shall be gradation CA-2, gradation CA-6 or as otherwise directed by FRSA and/or the governing roadway authority. Coarse Aggregates shall be in accordance with Article 1004.04 of the IDOT *Standard Specifications for Road and Bridge Construction*, Current Edition. Crushed concrete materials approved by IDOT and in accordance with Article 1004.04 may be allowed in lieu of quarried materials, subject to prior approval of the jurisdictional roadway authority.

17.3 Required Submittals

1. Material gradation certifications for aggregates.

17.4 Measurement and Payment

This work will be paid for at the Contract unit price per Square Yard (SY) for Aggregate Base Course, Type B, 12”, complete, in place.

18 Traffic Control and Protection

18.1 General

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

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

All detour routes or road closures needed to complete the work shall be approved by the jurisdictional roadway authority prior to placement of any traffic control measures. Approvals all detours or closures shall be provided to FRSA.

18.2 Required Submittals

1. Copies of approved traffic control plans, including detour routes (if required).

18.3 Payment

This work will be paid for at the Contract unit Lump Sum (LS) price for Traffic Control and Protection.

19 Erosion & Sediment Control

19.1 General

The Contractor shall comply with all the requirements of the IEPA's *Illinois Urban Manual*, current edition and Section 280 of the *IDOT Standard Specification*.

Any erosion control devices, materials, and procedures in these detailed specifications are the minimum required. Additional devices or materials may be needed depending on existing site conditions, at the direction of the FRSA. Any additional devices, materials, or procedures required by the FRSA due to the Contractor's actions or negligence shall be provided at no additional cost to the FRSA.

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

The Contractor shall keep paved areas free from all dirt and construction debris at all times. Mud and debris shall be removed from roadway surfaces at the end of each workday or as necessary.

Where applicable, the Contractor shall install temporary concrete washout basins onsite at locations approved by the FRSA. Washout basins shall comply with the Illinois Urban Manual Practice Standard Code 954.

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

19.2 Payment

No separate payment will be made for costs associated with erosion and sediment control. Costs shall be incidental to the Contract.

20 Quality Control, Tests & Certification

20.1 General

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

All pipe connections made on this project shall be inspected by the FRSA via internal television inspection for final acceptance. Contractor shall coordinate televising with the FRSA's Inspector.

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

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

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

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

20.2 Submittals – Not used.

20.3 Payment

No separate payment will be made for costs associated with quality control, tests and certification. Costs shall be incidental to the Contract.

Not to be used for bidding purposes

Section II

Contract Forms

Not to be used for bidding purposes

Proposal

Project: 2023 Manhole Replacements, Capital Project No. 2413
Location: Seven (7) separate locations within the Public Right-of-Way in the City of Rockford, Winnebago County, IL
Completion Date: October 31, 2023
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.
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.

Not to be used for bidding purposes

Item No.	Quantity	Unit	Description	Unit Price (In Writing)	Unit Price (In Figures)	Total Price (In Figures)
1	515	SY	Pavement Removal			
2	7	EA	Remove Sanitary Manhole			
3	6	EA	Sanitary Manhole, 4' Dia.			
4	1	EA	Sanitary Manhole, 5' Dia., Drop			
5	64	LF	8" Dia. Sanitary Sewer, SDR 35			
6	8	LF	10" Dia. Sanitary Sewer, SDR 35			
7	9	EA	Sewer Service Reconnection, 6" Dia.			
8	12	LF	Remove and Replace Combination Curb and Gutter Type M-6.18 (modified)			
9	515	SY	Aggregate Base Course, Type B, 12"			
10	430	SY	Class D Patches, 4"			
11	85	SY	Class D Patches, 6"			
12	5	CY	Rock Excavation			
13	1	LS	Traffic Control & Protection			
TOTAL BID PRICE:						
				(In Writing)		(In Figures)

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

By: _____

Name: _____ Title: _____ Date: _____

Fair Employment Practices Affidavit of Compliance

Project: 2023 Manhole Replacements, Capital Project No. 2413

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

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

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

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

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

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

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

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

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

Signature

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

Notary Public

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we:

_____ (hereinafter called the Principal)
and

_____ (hereinafter called the Surety)

a Corporation chartered and existing under the laws of the State of _____ with its principal offices in the City of _____ and authorized to do business in the State of Illinois are held and firmly bound onto the Four Rivers Sanitation Authority (FRSA) of Winnebago County, Illinois, in the full and just sum of: TEN PERCENT (10%) OF THE TOTAL BID PRICE good lawful money of the United States of America, to be paid upon demand of the FRSA, to which payment will and truly to be made we bind ourselves, our heirs, executors, administrators, and assigns, jointly and severally and firmly by these presents.

WHEREAS, the Principal is about to submit, or has submitted to FRSA, a proposal for the 2023 Manhole Replacements project consisting of the removal and replacement of seven (7) existing sanitary manholes. Scope of work also includes pavement restoration, traffic control, and all other appurtenances as indicated in the bid documents.

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: _____

Not to be used for bidding purposes

Agreement

1. General

THIS AGREEMENT, made and concluded this _____ day of _____, 2023, 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, 2023.

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: _____

Not to be used for bidding purposes

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

By: _____
Attorney-in-Fact Signature

Printed Name

Printed Name

Title

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)

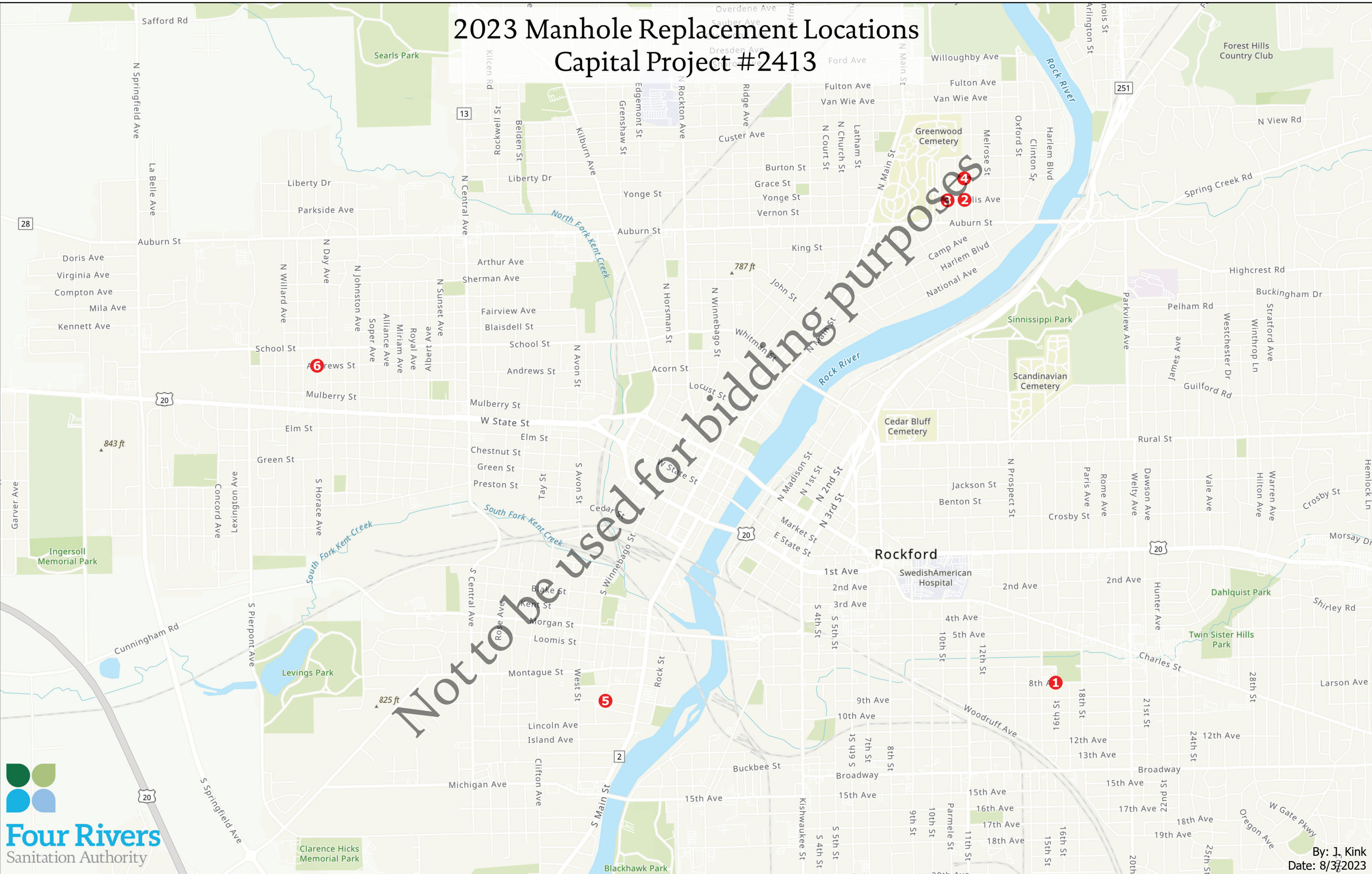
Not to be used for bidding purposes

Section III

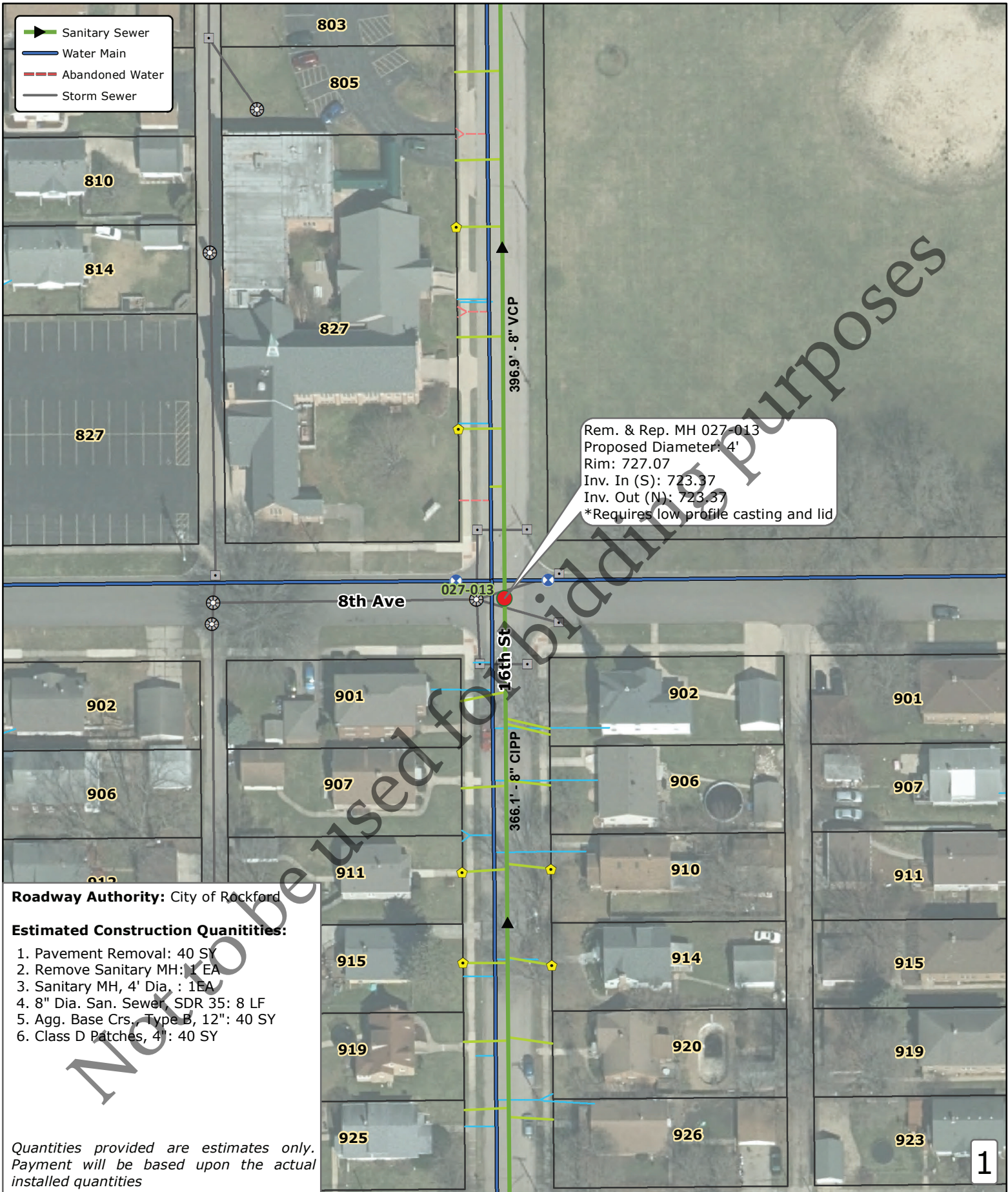
Project Location Maps and Standard Details

Not to be used for bidding purposes

2023 Manhole Replacement Locations Capital Project #2413



Not to be used for bidding purposes



Rem. & Rep. MH 027-013
 Proposed Diameter: 4'
 Rim: 727.07
 Inv. In (S): 723.37
 Inv. Out (N): 723.37
 *Requires low profile casting and lid

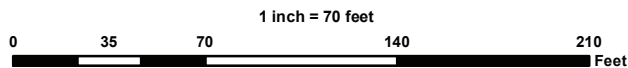
Roadway Authority: City of Rockford

Estimated Construction Quantities:

1. Pavement Removal: 40 SY
2. Remove Sanitary MH: 1 EA
3. Sanitary MH, 4' Dia. : 1EA
4. 8" Dia. San. Sewer, SDR 35: 8 LF
5. Agg. Base Crs., Type B, 12": 40 SY
6. Class D Patches, 4": 40 SY

*Quantities provided are estimates only.
 Payment will be based upon the actual
 installed quantities*

2023 Manhole Replacements





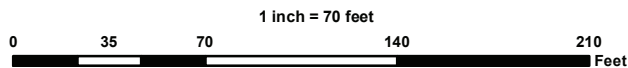
Roadway Authority: City of Rockford

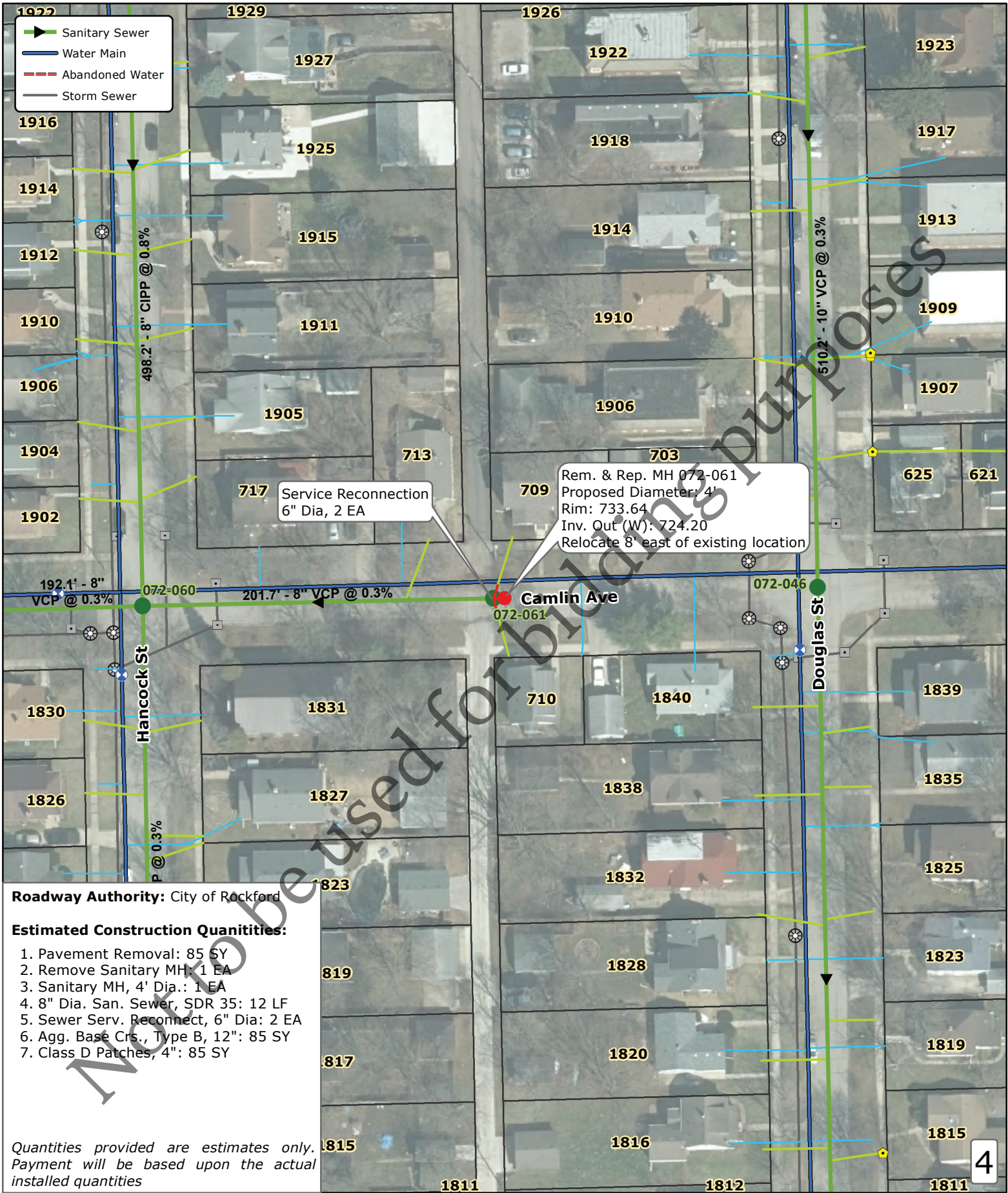
Estimated Construction Quantities:

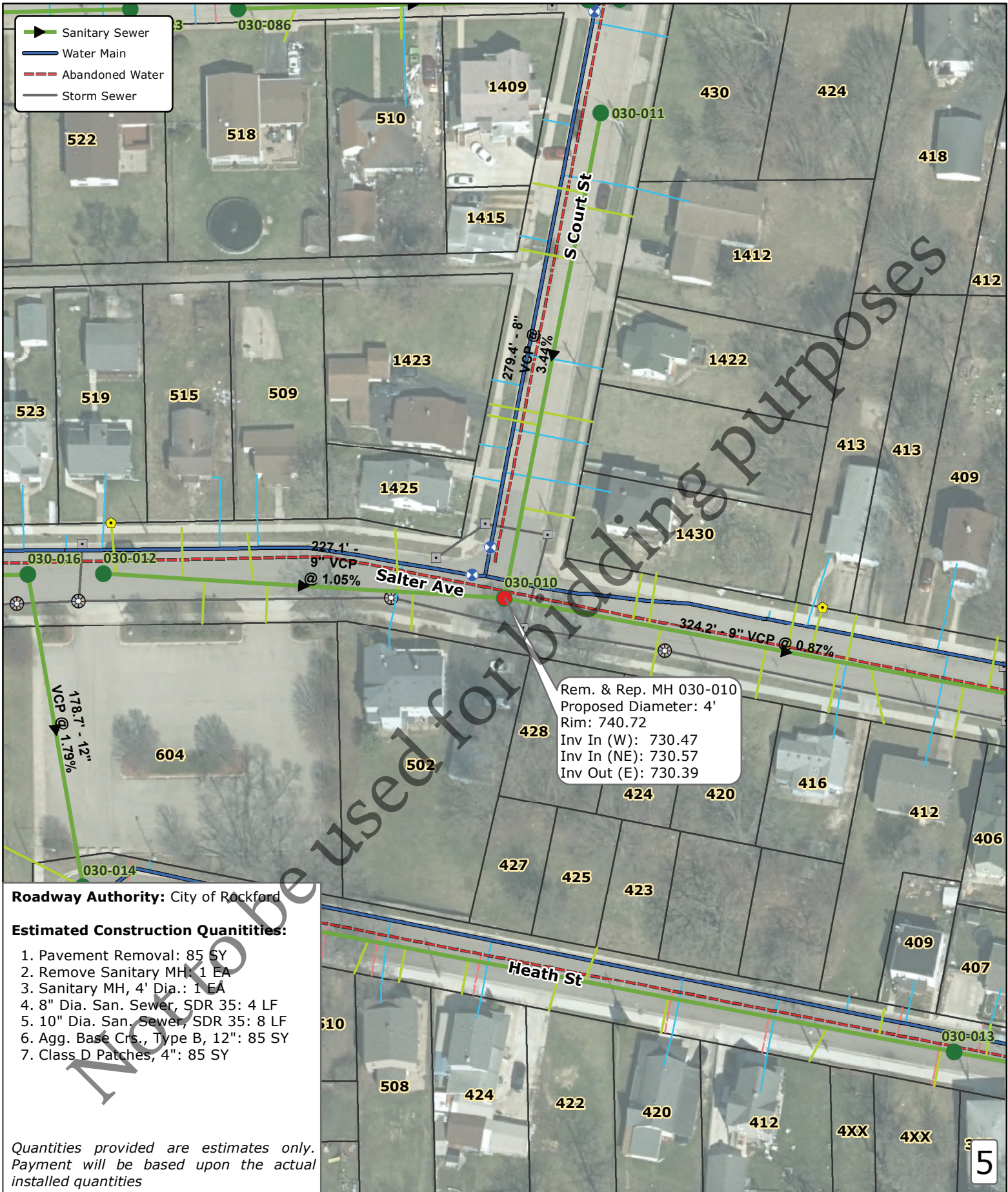
1. Pavement Removal: 85 SY
2. Remove Sanitary MH: 1 EA
3. Sanitary MH, 4' Dia.: 1EA
4. 8" Dia. San. Sewer, SDR 35: 12 LF
5. Sewer Serv. Reconnect, 6" Dia.: 4 EA
6. Agg. Base Crs., Type B, 12": 85 SY
7. Class D Patches, 4": 85 SY

Quantities provided are estimates only. Payment will be based upon the actual installed quantities

2023 Manhole Replacements







- Sanitary Sewer
- Water Main
- Abandoned Water
- Storm Sewer

Rem. & Rep. MH 030-010
 Proposed Diameter: 4'
 Rim: 740.72
 Inv In (W): 730.47
 Inv In (NE): 730.57
 Inv Out (E): 730.39

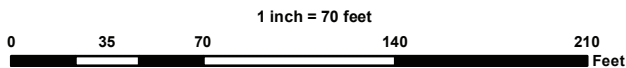
Roadway Authority: City of Rockford

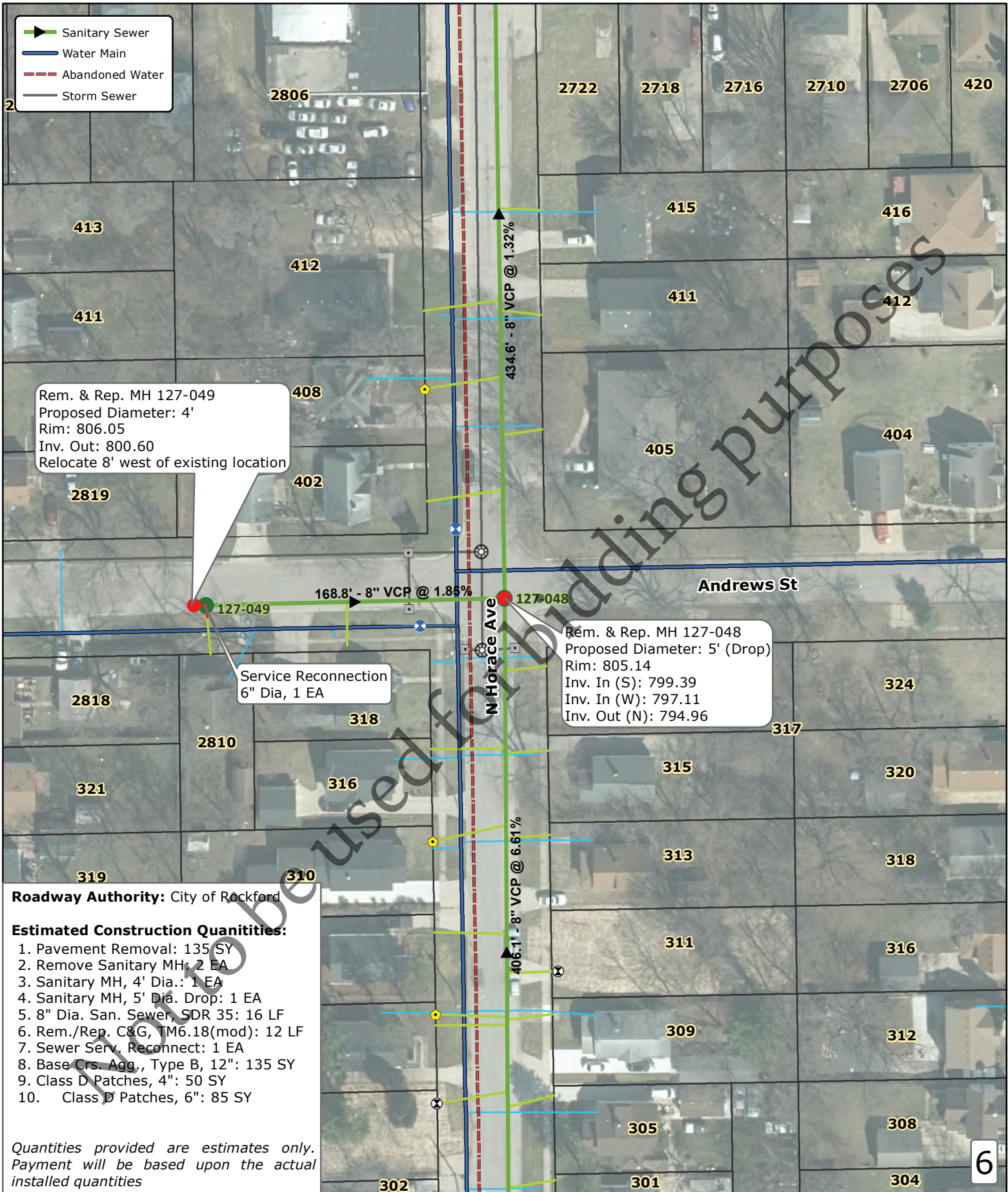
Estimated Construction Quantities:

1. Pavement Removal: 85 SY
2. Remove Sanitary MH: 1 EA
3. Sanitary MH, 4' Dia.: 1 EA
4. 8" Dia. San. Sewer, SDR 35: 4 LF
5. 10" Dia. San. Sewer, SDR 35: 8 LF
6. Agg. Base Crs., Type B, 12": 85 SY
7. Class D Patches, 4": 85 SY

*Quantities provided are estimates only.
 Payment will be based upon the actual
 installed quantities*

2023 Manhole Replacements





Rem. & Rep. MH 127-049
 Proposed Diameter: 4'
 Rim: 806.05
 Inv. Out: 800.60
 Relocate 8' west of existing location

Rem. & Rep. MH 127-048
 Proposed Diameter: 5' (Drop)
 Rim: 805.14
 Inv. In (S): 799.39
 Inv. In (W): 797.11
 Inv. Out (N): 794.96

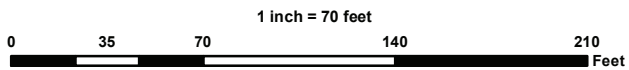
Service Reconnection
 6" Dia, 1 EA

Roadway Authority: City of Rockford

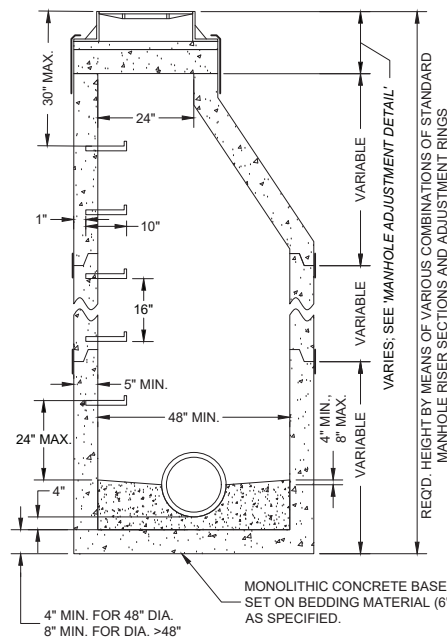
- Estimated Construction Quantities:**
1. Pavement Removal: 135 SY
 2. Remove Sanitary MH: 2 EA
 3. Sanitary MH, 4' Dia.: 1 EA
 4. Sanitary MH, 5' Dia. Drop: 1 EA
 5. 8" Dia. San. Sewer, SDR 35: 16 LF
 6. Rem./Rep. C&G, TM6.18(mod): 12 LF
 7. Sewer Serv. Reconnect: 1 EA
 8. Base Crs. Agg., Type B, 12": 135 SY
 9. Class D Patches, 4": 50 SY
 10. Class D Patches, 6": 85 SY

*Quantities provided are estimates only.
 Payment will be based upon the actual
 installed quantities*

2023 Manhole Replacements



- 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 C-923 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
 10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
 11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER 'INSIDE DROP CONNECTION DETAIL'.
 12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED. FOR MANHOLES WITH INSIDE DROP ASSEMBLIES, STEPS IN THE MANHOLE BASE SECTION SHALL BE INSTALLED IN THE FIELD AND NOT CAST IN PLACE. IN THIS CASE, THE ORIENTATION OF THE CONE SHALL BE AS DIRECTED BY FRSA.

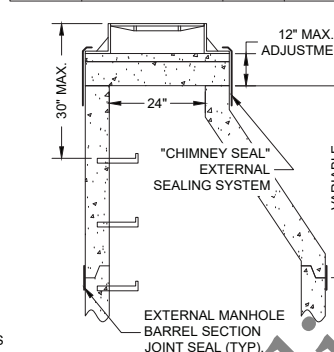


STANDARD MANHOLE DETAIL
(*MANHOLE ADJUSTMENT DETAIL* SHALL APPLY)

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

APPROVED FRAME & LID TABLE

TYPE	NEENAH FRAME	NEENAH LID	EAST JORDAN FRAME	EAST JORDAN LID
REGULAR	1670-2004	R-1670-0358	00111711	00111732
LOW PROFILE	1670-2008	R-1670-0358	---	---
BOLT DOWN	1915J708	---	---	---



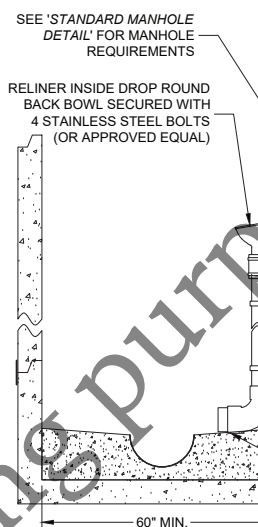
MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

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

DROP BOWL & DROP PIPE SIZING TABLE

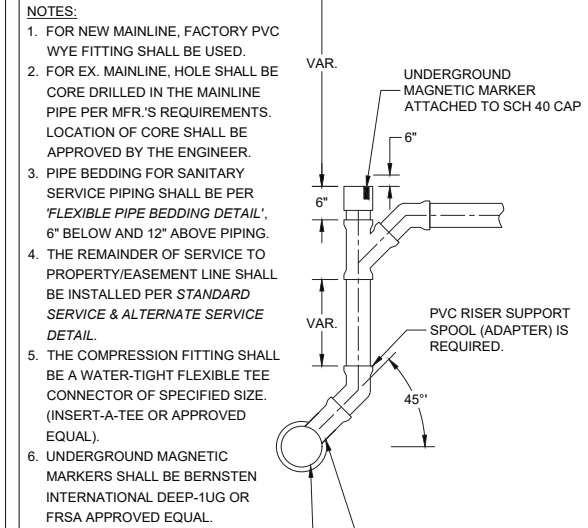
INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*

* PER MFG. OR AS DIRECTED BY FRSA



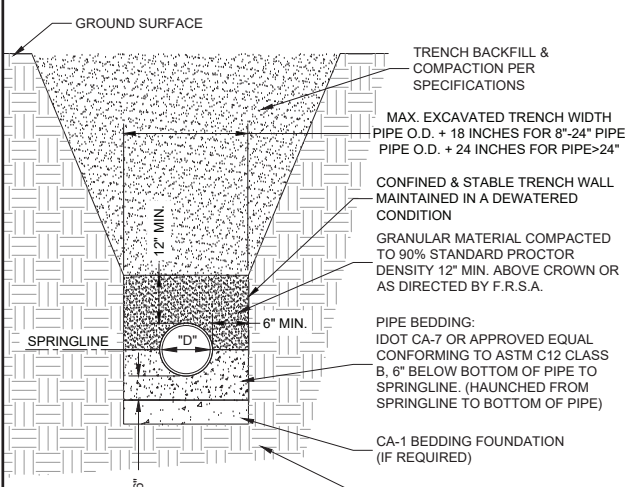
INSIDE DROP CONNECTION DETAIL
(*STANDARD MANHOLE DETAIL* SHALL APPLY)

- 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.
 9. ALTERNATE INSIDE DROP SYSTEMS MAY BE CONSIDERED FOR APPROVAL.



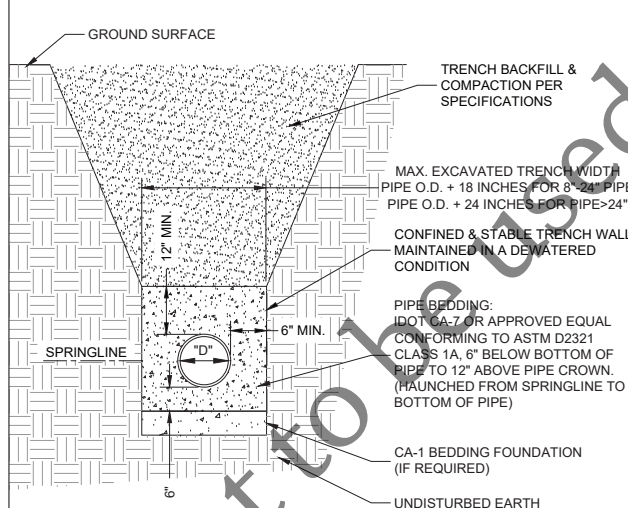
VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

- 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.

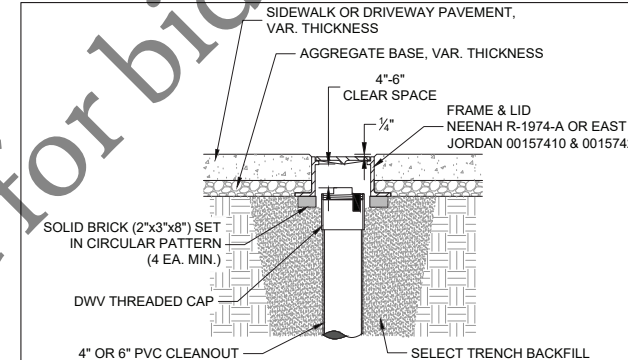


RIGID PIPE BEDDING DETAIL

- 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.



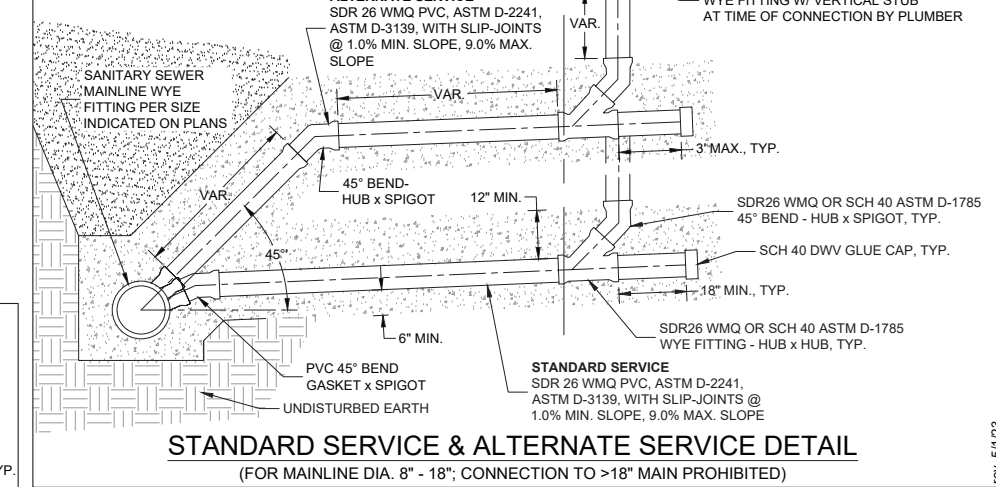
FLEXIBLE PIPE BEDDING DETAIL



- NOTES:**
1. 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.

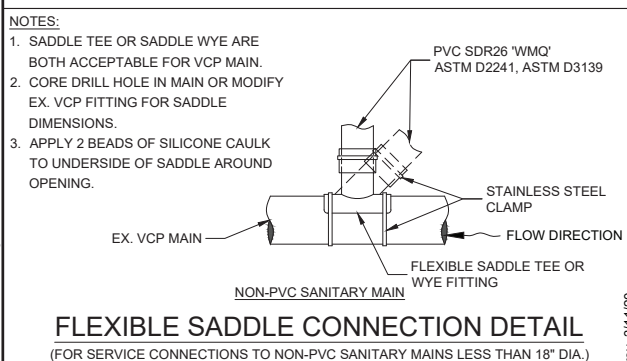
SERVICE CLEANOUT CASTING DETAIL

- NOTES:**
1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER 'FLEXIBLE PIPE BEDDING DETAIL' OR 'RIGID PIPE BEDDING DETAIL'.
 2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER 'FLEXIBLE PIPE BEDDING DETAIL', 6" BELOW AND 12" ABOVE PIPING.
 3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2665.
 4. ALL SDR26 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
 5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
 6. MIN. DEPTH OF COVER SHALL BE 5'.
 7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.
 8. CLEANOUT RISERS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS SHALL WILL REQUIRE A CLEANOUT FRAME & LID PER THE FRSA 'SERVICE CLEANOUT CASTING DETAIL'.



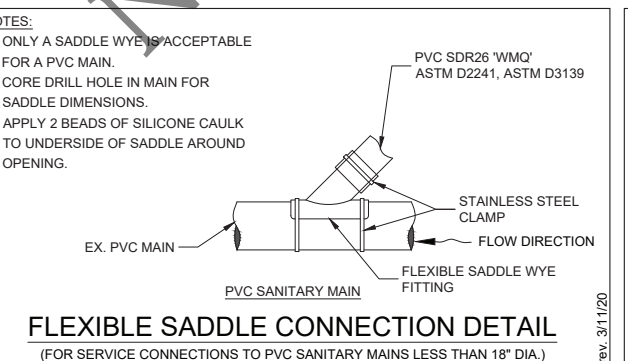
STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

- 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.

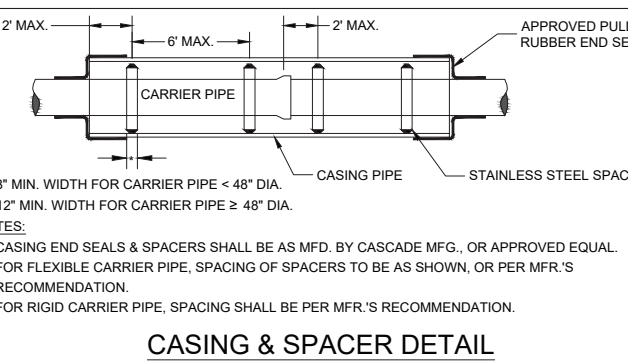


FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)

- 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.)



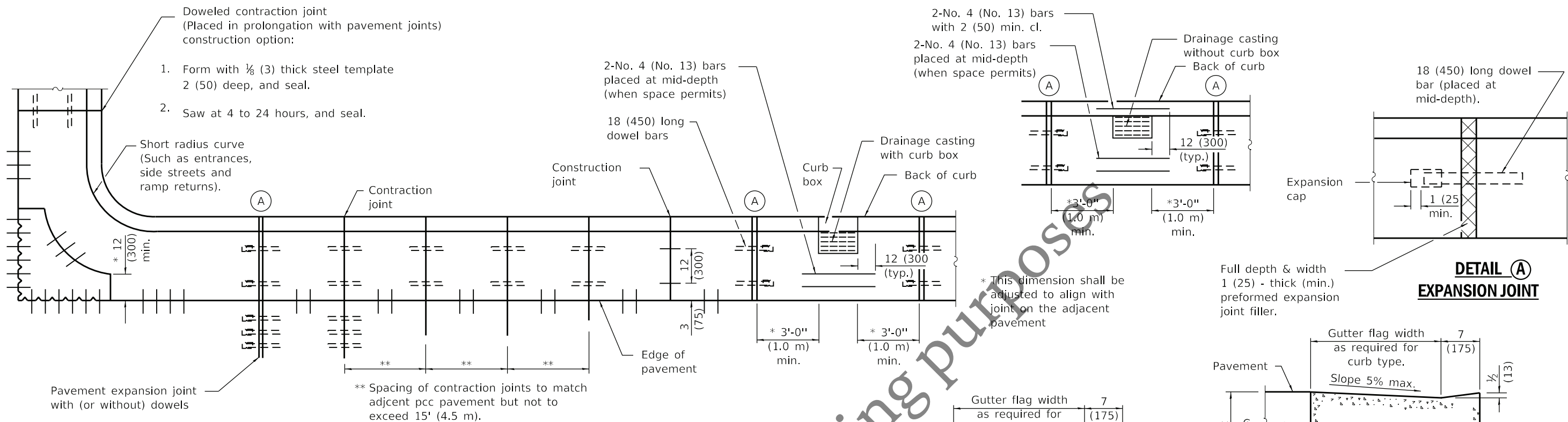
- NOTES:**
1. CASING END SEALS & SPACERS SHALL BE AS MFD. BY CASCADE MFG., OR APPROVED EQUAL.
 2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFR.'S RECOMMENDATION.
 3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFR.'S RECOMMENDATION.

CASING & SPACER DETAIL

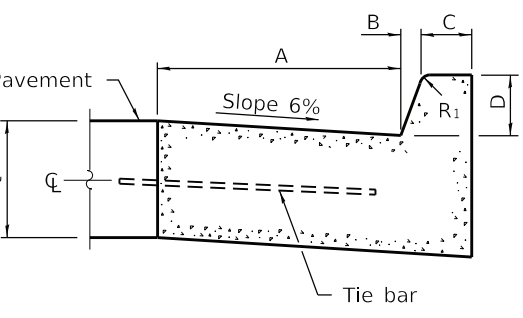
FOUR RIVERS SANITATION AUTHORITY (FRSA) STANDARD DETAIL SHEET
(NOT TO SCALE)

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

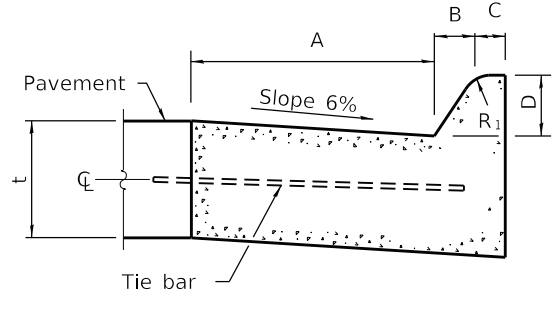
ISSUE 05/01/2023



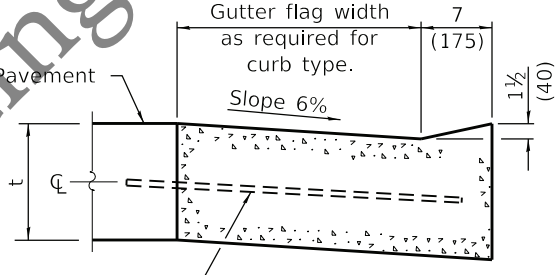
PLAN
ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE



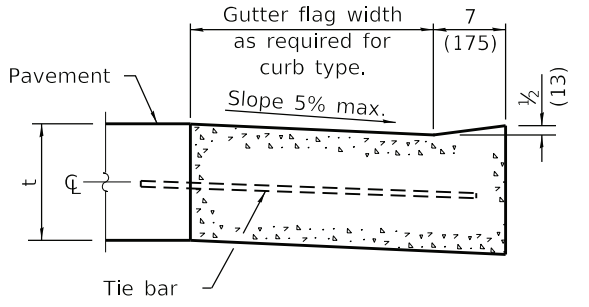
BARRIER CURB



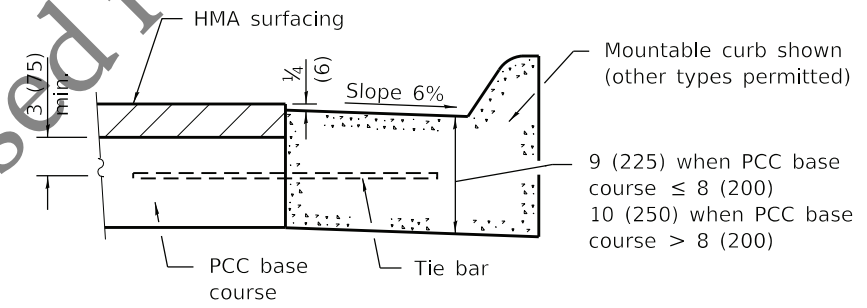
MOUNTABLE CURB



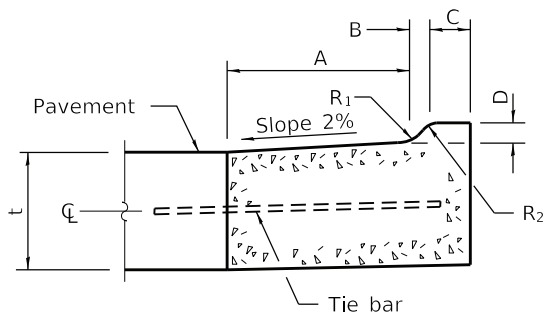
DEPRESSED CURB (TYPICAL)



DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



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

TABLE OF DIMENSIONS BARRIER CURB

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

TABLE OF DIMENSIONS MOUNTABLE CURB

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

* For corner islands only.

Illinois Department of Transportation

PASSED January 1, 2022

Michael Brand
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

GENERAL NOTES

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

t = Thickness of pavement.

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

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

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

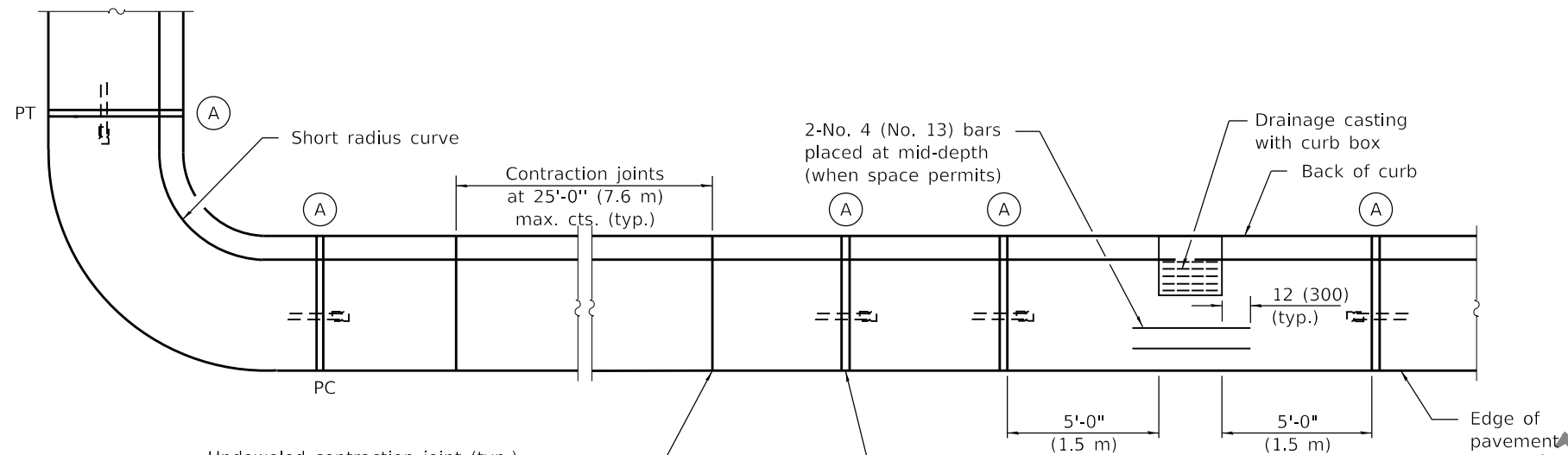
See Standard 606301 for details of corner islands.

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

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

CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
(Sheet 1 of 2)

STANDARD 606001-08

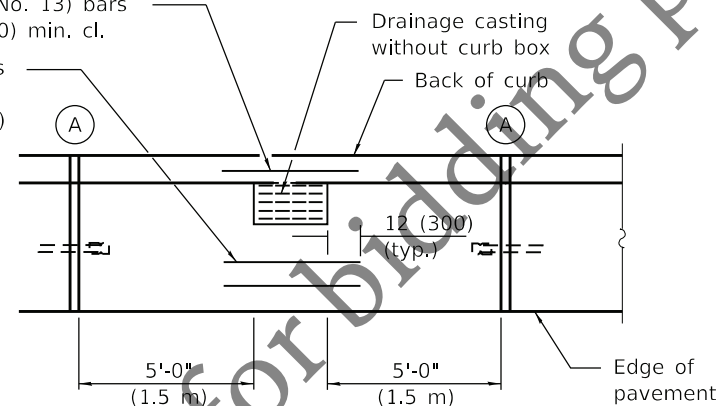


Undoweled contraction joint (typ.) construction options:

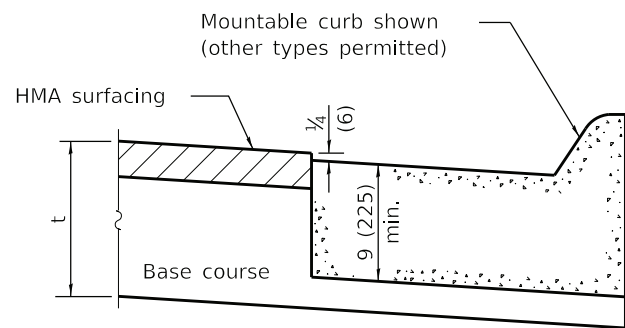
1. Form with $\frac{1}{8}$ (3) thick steel template 2 (50) deep, and seal.
2. Saw 2 (50) deep at 4 to 24 hours, and seal.
3. Insert $\frac{3}{4}$ (20) thick preformed joint filler full depth and width.

Construction joint
2-No. 4 (No. 13) bars with 2 (50) min. cl.

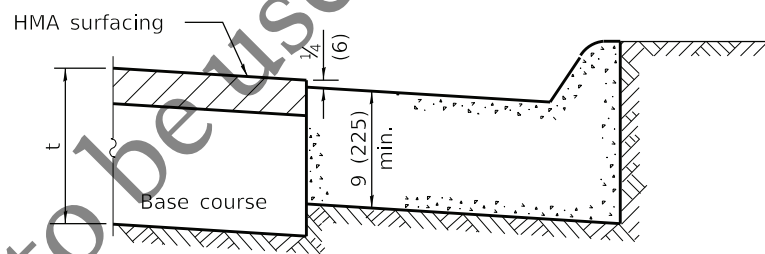
2-No. 4 (No. 13) bars placed at mid-depth (when space permits)



PLAN

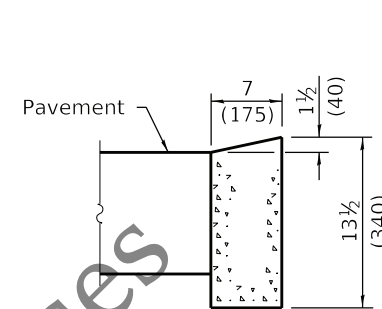


ON DISTURBED SUBGRADE

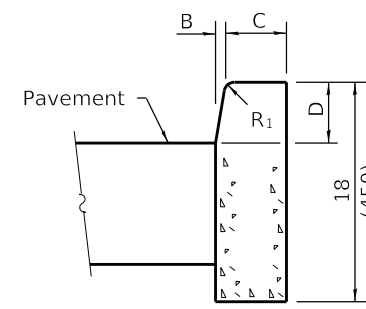


ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

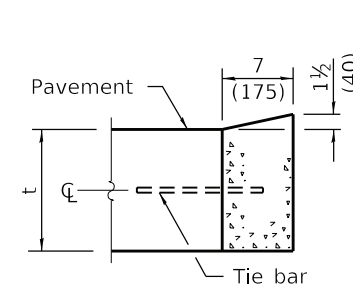


DEPRESSED CURB

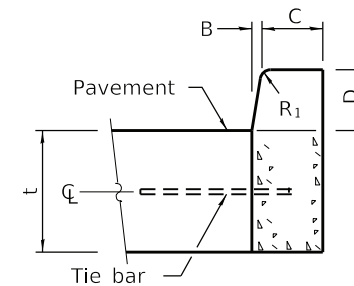


BARRIER CURB

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB



BARRIER CURB

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

**CONCRETE CURB TYPE B
AND COMBINATION
CONCRETE CURB AND GUTTER**

(Sheet 2 of 2)

STANDARD 606001-08

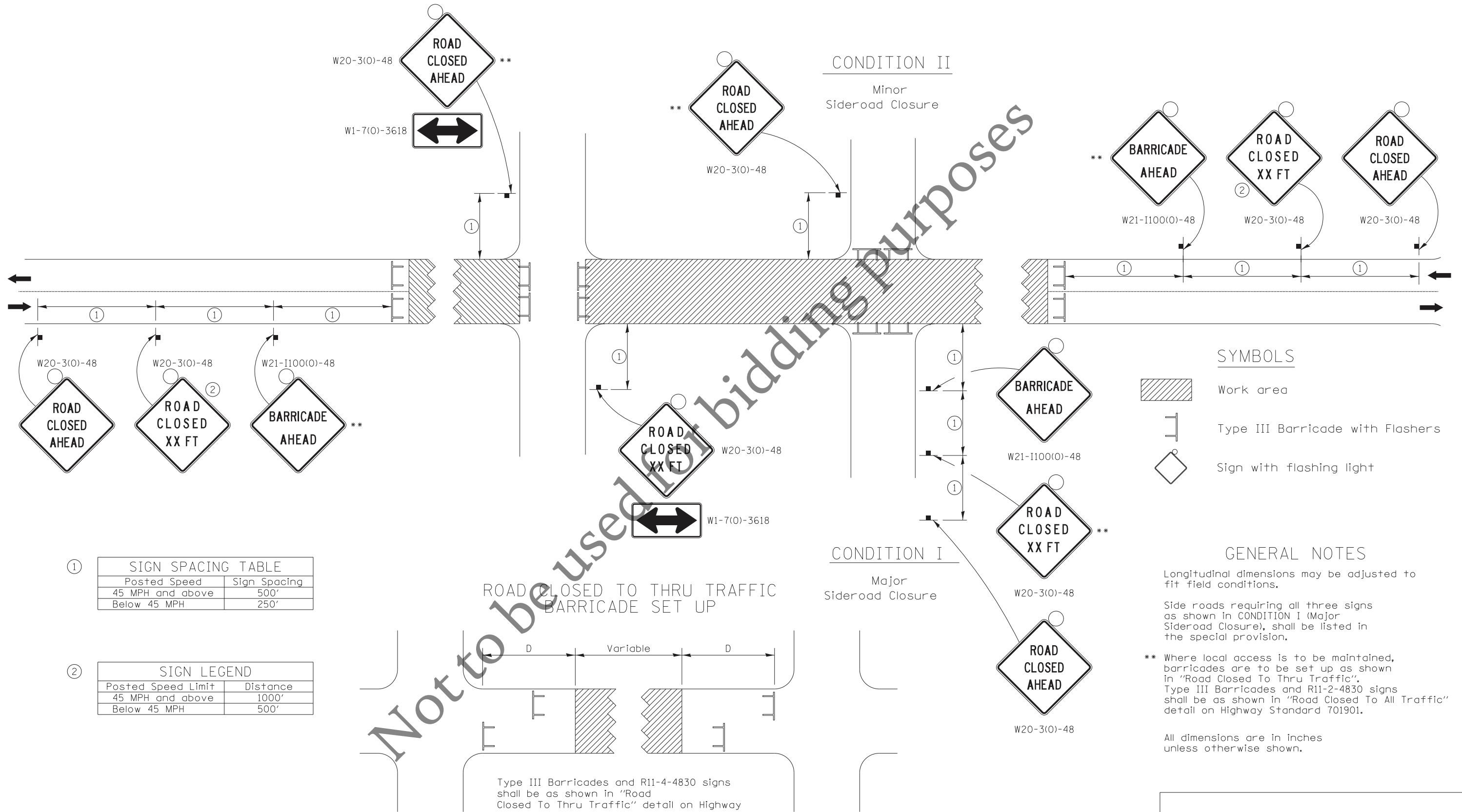
Illinois Department of Transportation

PASSED January 1, 2022
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2022
John C. ...
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

TRAFFIC CONTROL FOR ROAD CLOSURE



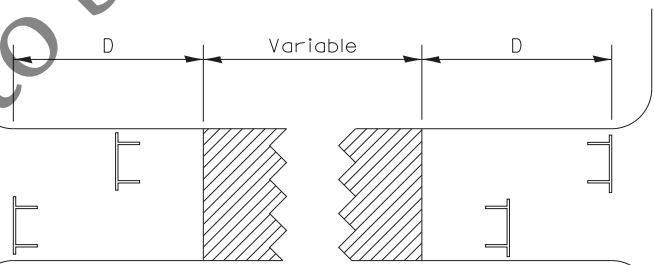
① SIGN SPACING TABLE

Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

② SIGN LEGEND

Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC
BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

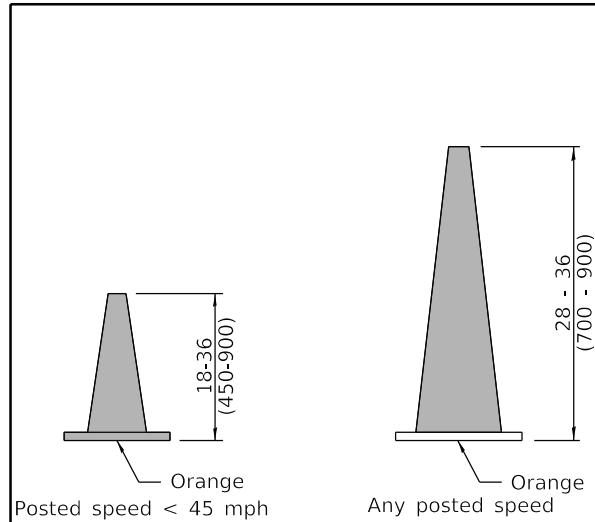
- SYMBOLS**
- Work area
 - Type III Barricade with Flashers
 - Sign with flashing light

- GENERAL NOTES**
- Longitudinal dimensions may be adjusted to fit field conditions.
 - Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

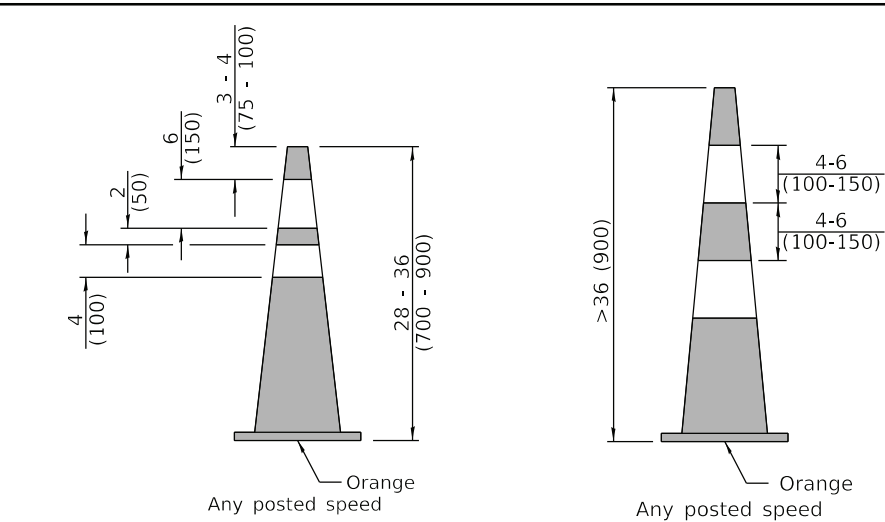
** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed To Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

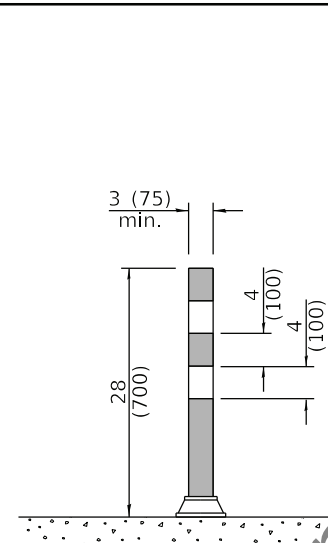
TYPICAL APPLICATION FOR ROAD CLOSURE



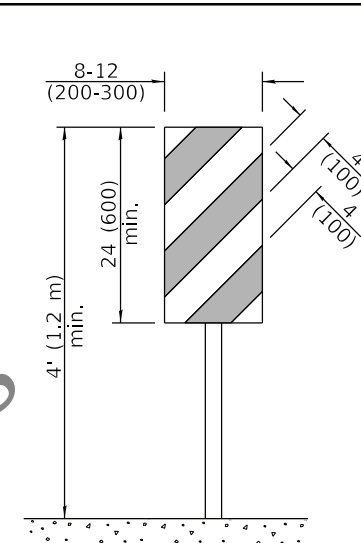
DAYTIME USE



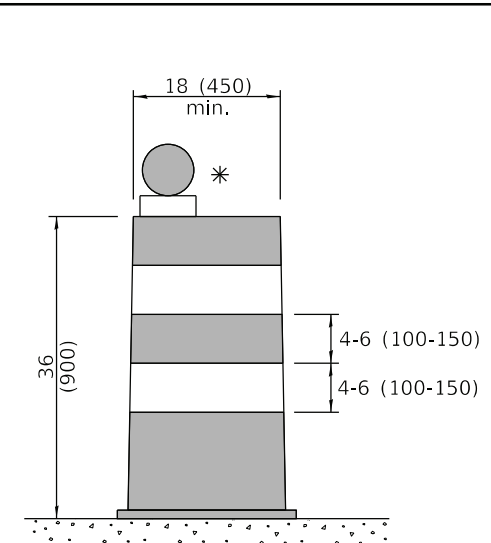
DAY OR NIGHTTIME USE



TUBULAR MARKER

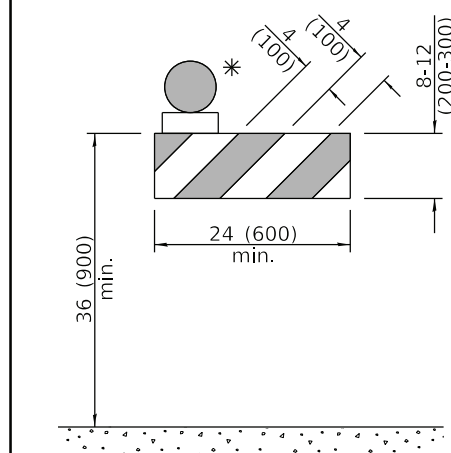


**VERTICAL PANEL
POST MOUNTED**

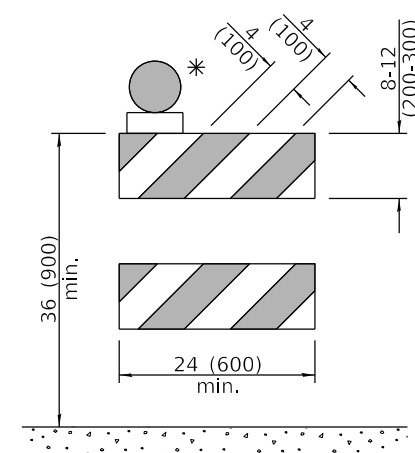


DRUM

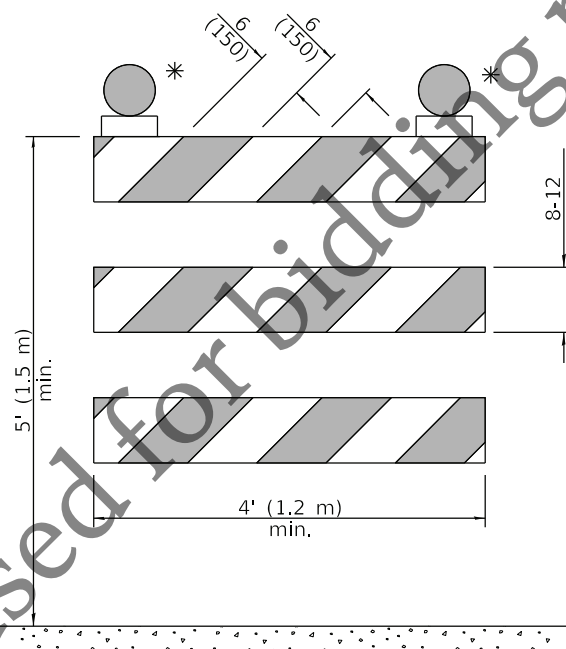
CONES



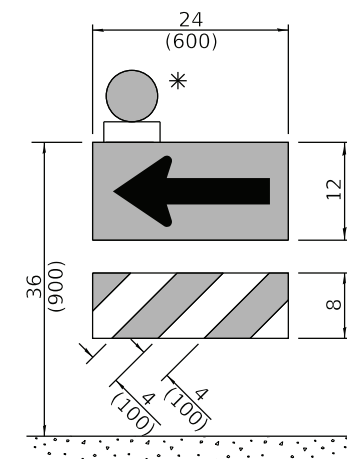
TYPE I BARRICADE



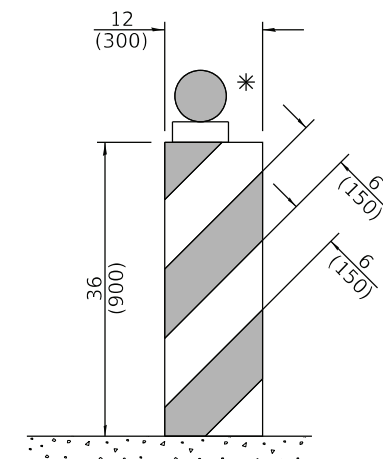
TYPE II BARRICADE



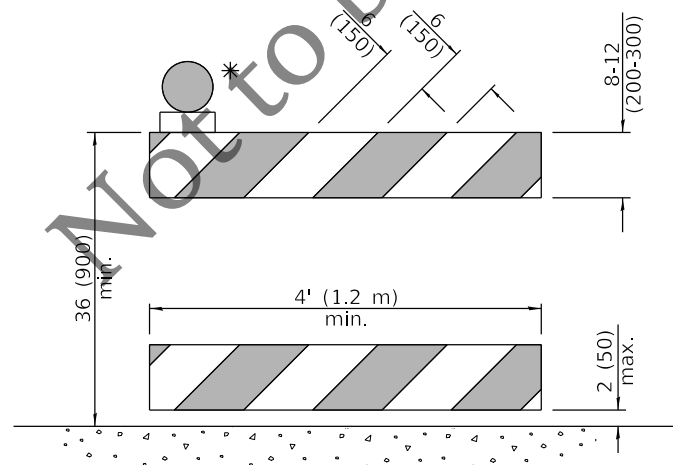
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

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

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

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901-08

Illinois Department of Transportation

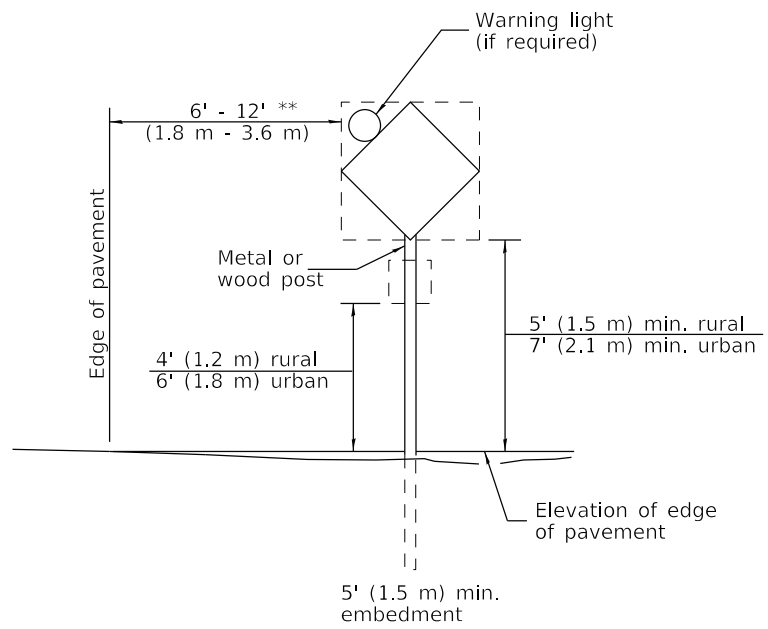
APPROVED January 1, 2019

 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

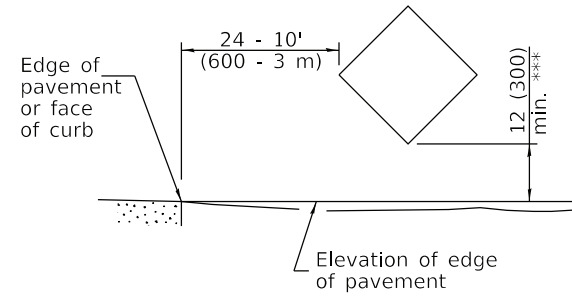
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED
 ET-1-1 08/SS1



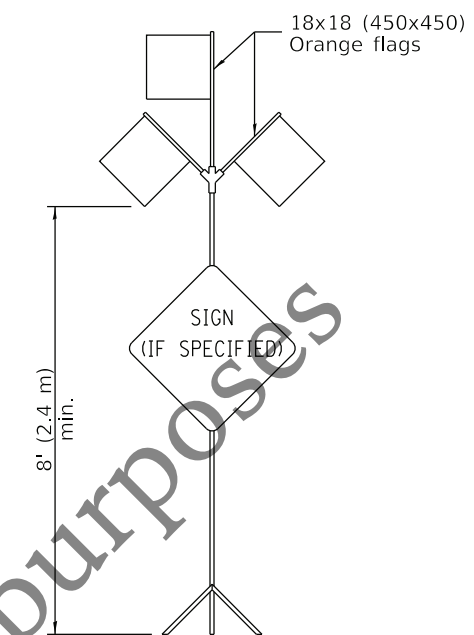
POST MOUNTED SIGNS

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

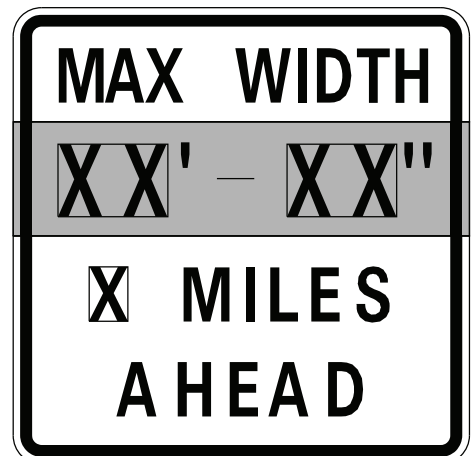


SIGNS ON TEMPORARY SUPPORTS

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



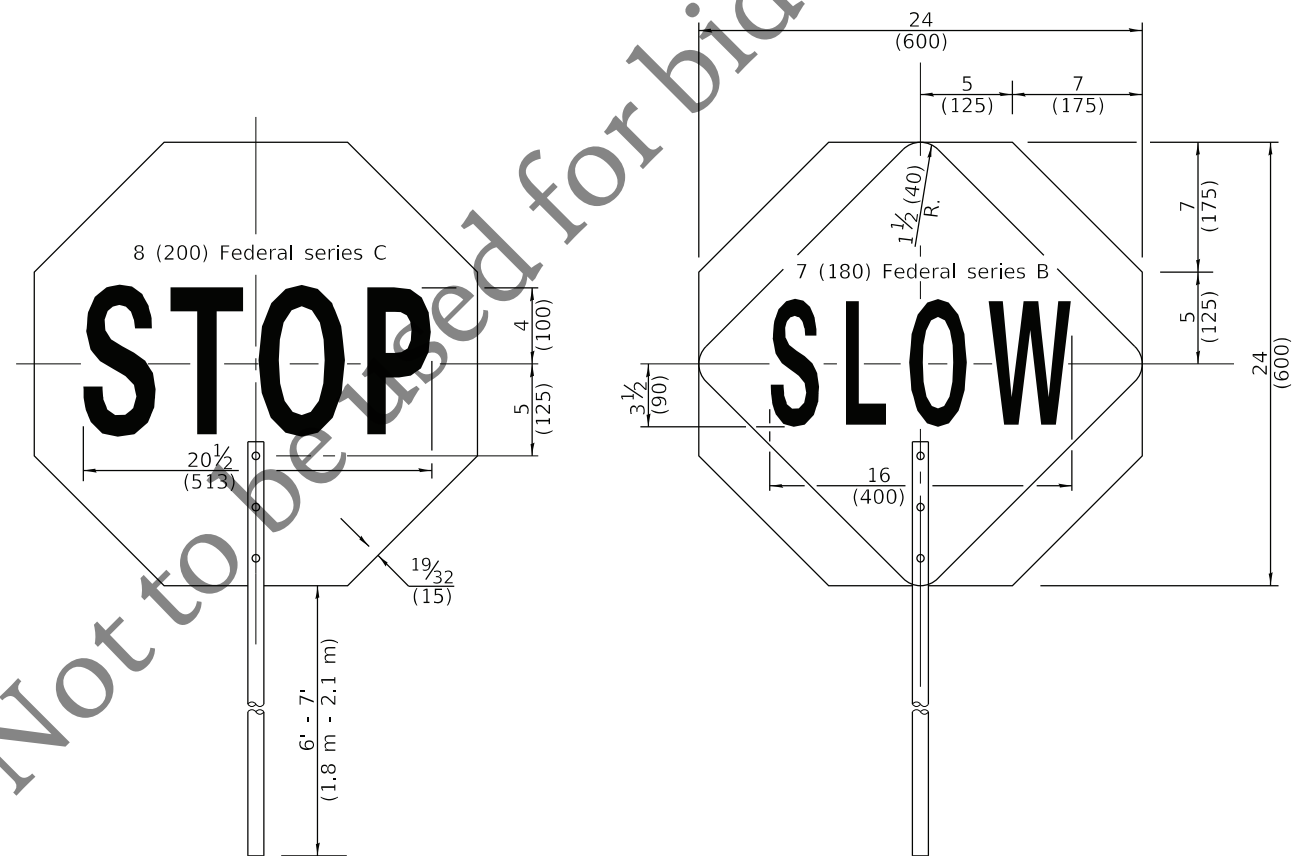
HIGH LEVEL WARNING DEVICE



W12-I103-4848

WIDTH RESTRICTION SIGN

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



FRONT SIDE

REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES	END CONSTRUCTION
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

WORK ZONE	W21-III5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-I108p-3618 ****
\$XXX FINE MINIMUM	R2-I106p-3618

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

END WORK ZONE SPEED LIMIT	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.

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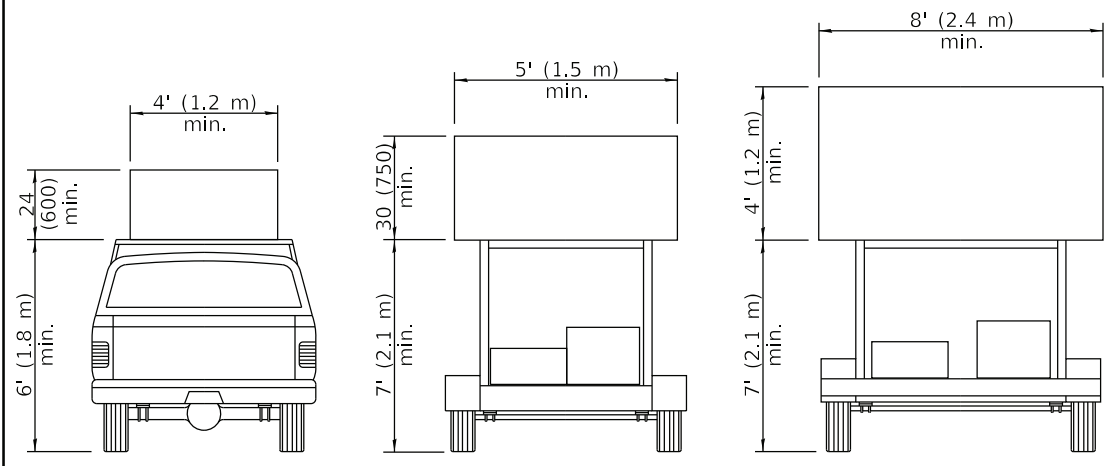
APPROVED January 1, 2019
J. E. ...
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

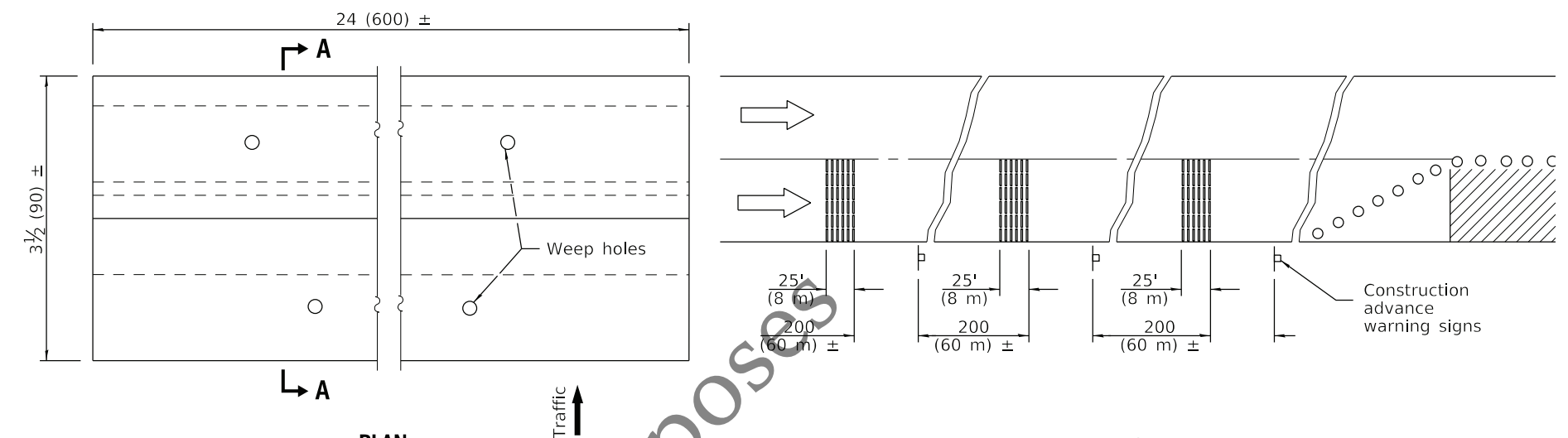
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

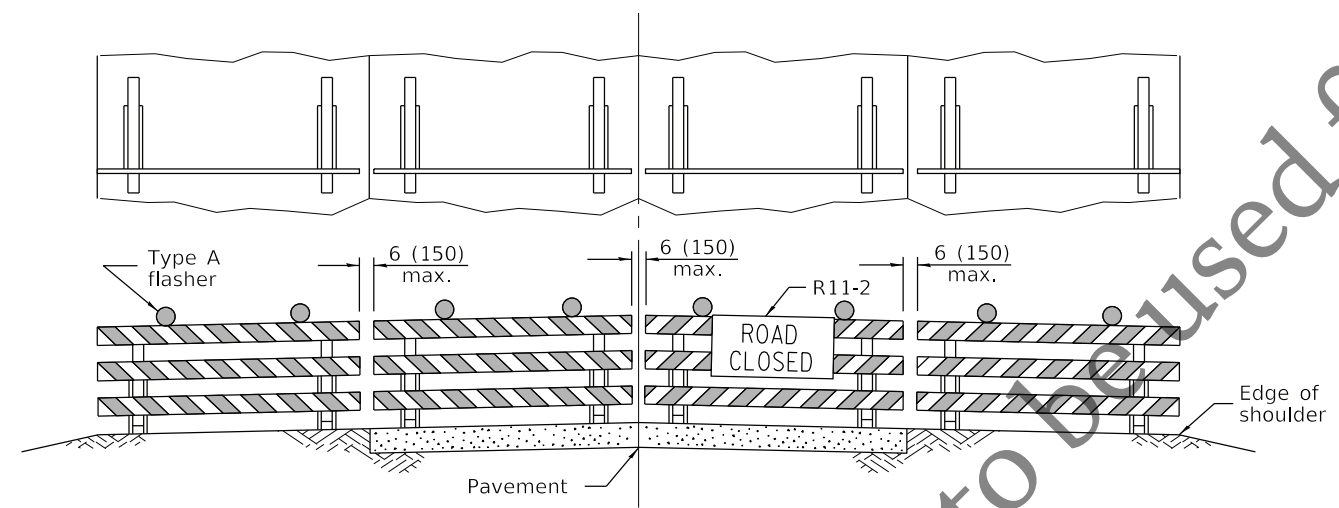
STANDARD 701901-08



ARROW BOARDS



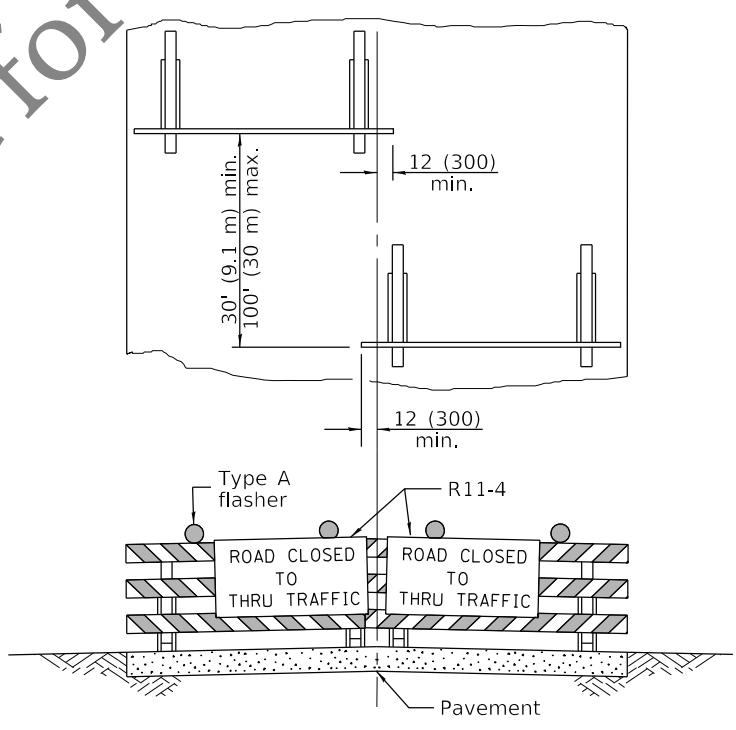
TEMPORARY RUMBLE STRIPS



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.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**



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.

Illinois Department of Transportation

APPROVED January 1, 2019

Cynthia Watt
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2019

Joe E. ...
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUES
E1-1-1 Q3US1

**TRAFFIC CONTROL
DEVICES**

(Sheet 3 of 3)

STANDARD 701901-08

Section IV

General Provisions & Technical Specifications for Sanitary Sewer Construction

(Separate document incorporated by reference)