



WILL COUNTY, ILLINOIS

PURCHASING DEPARTMENT

JENNIFER BERTINO-TARRANT
WILL COUNTY EXECUTIVE

KEVIN LYNN
DIRECTOR

P. 815-740-4712
F. 815-740-4604
E. klynn@willcountyillinois.com

County Office Building
302 N. Chicago Street
Joliet, IL 60432

July 25, 2022

To Whom It May Concern:

You are invited to submit your sealed bid for the Removal and Replacement of Trench Drains at two (2) Will County Department of Transportation Maintenance Garages, Lockport and Joliet locations

Specifications are attached hereto and are considered part of the SEALED BID package.

A mandatory site visit is scheduled for 9:00 AM, on Wednesday, August 3, 2022 at 1240 Caton Farm Road, Lockport, IL 60441. The site visit will then move from the Caton Farm Road Garage location to the Joliet Garage location at 16841 W. Laraway Road, Joliet, IL 60433.

A 10% Bid Bond or Cashier's Check made payable to the Will County Treasurer MUST accompany your sealed bid, or it will be rejected. Money Orders or Company checks will not be accepted.

Sealed bids will be received in the Purchasing Department, 2nd floor, Will County Office Building, 302 N. Chicago Street, Joliet, IL, 60432, **NOT LATER THAN 10:00 AM, Wednesday, August 10, 2022.**

Bids will be publicly opened and read by the Will County Executive or her Representative at **10:05 AM, Wednesday, August 10, 2022** at the Will County Office Building, 302 N. Chicago Street, 2nd Floor, Joliet, IL 60432.

The County of Will reserves the right to accept or reject any or all bids received.

Should you have any questions regarding this bid, please submit them in writing to Kevin Lynn, Purchasing Director, at klynn@willcountyillinois.com.

We welcome your bid.

Sincerely,

Kevin Lynn

Purchasing Director

**ADVERTISEMENT OF BID
REMOVAL AND REPLACEMENT OF TRENCH DRAINS AT TWO (2) WILL COUNTY DEPARTMENT
OF TRANSPORTATION MAINTENANCE GARAGES, LOCKPORT AND JOLIET LOCATIONS**

SEALED BIDS FOR THE REMOVAL AND REPLACEMENT OF TRENCH DRAINS AT TWO (2) WILL COUNTY DEPARTMENT OF TRANSPORTATION GARAGES, LOCKPORT AND JOLIET LOCATIONS, WILL BE RECEIVED AT THE PURCHASING DEPARTMENT, 2ND FLOOR OF THE WILL COUNTY OFFICE BUILDING, 302 N. CHICAGO ST., JOLIET, IL 60432, UNTIL THE HOUR OF **10:00 AM, WEDNESDAY, AUGUST 10, 2022.**

A MANDATORY SITE VISIT IS SCHEDULED FOR 9:00 AM, WEDNESDAY AUGUST 3, 2022 AT THE GARAGE LOCATED AT 1240 CATON FARM ROAD, LOCKPORT, IL 60441. THE SITE VISIT WILL THEN MOVE FROM THE CATON FARM ROAD LOCATION TO THE JOLIET LOCATION AT 16841 W. LARAWAY ROAD, JOLIET, IL 60433.

SEALED BIDS WILL BE PUBLICLY OPENED AND READ BY THE WILL COUNTY EXECUTIVE OR HER REPRESENTATIVE AT **10:05 AM, WEDNESDAY, AUGUST 10, 2022**, AT THE WILL COUNTY OFFICE BUILDING, 302 N. CHICAGO STREET, COUNTY BOARD ROOM, JOLIET, IL, 60432.

SPECIFICATIONS AND CONDITIONS OF THE BID ARE AVAILABLE AT www.willcountyillinois.com, www.demandstar.com, AS WELL AS THE PURCHASING DEPARTMENT, 2ND FLOOR, WILL COUNTY OFFICE BUILDING, 302 N. CHICAGO ST., JOLIET, IL 60432, (815) 740-4712 OR EMAIL purchasing@willcountyillinois.com.

THE TENDERING OF A BID SHALL BE CONSTRUED AS ACCEPTANCE OF THE SPECIFICATIONS. THE COUNTY OF WILL RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS OR PROPOSALS RECEIVED.

BY ORDER OF THE WILL COUNTY EXECUTIVE, JENNIFER BERTINO-TARRANT.

INSTRUCTIONS TO BIDDERS

REMOVAL AND REPLACEMENT OF TRENCH DRAINS AT TWO (2) WILL COUNTY DIVISION OF TRANSPORTATION MAINTENANCE GARAGES, LOCKPORT AND JOLIET LOCATIONS

You are invited to submit your sealed bid for:

REMOVAL AND REPLACEMENT OF TRENCH DRAINS AT TWO (2) WILL COUNTY DIVISION OF TRANSPORTATION MAINTENANCE GARAGES, LOCKPORT AND JOLIET LOCATIONS

A. SEALED BIDS:

Sealed bids will be received in the Purchasing Department, 2nd floor of the Will County Office Building located at 302 N. Chicago Street, Joliet, IL, 60432, **not later than 10:00 AM, Wednesday, August 10, 2022.** BIDS RECEIVED AFTER THIS TIME WILL NOT BE ACCEPTED.

Sealed bids will be publicly opened and read aloud by the Will County Executive or his representative at **10:05 AM, Wednesday, August 10, 2022** at the Will County Office Building, 302 N. Chicago Street, 2nd Floor, Joliet, IL, 60432.

Bids must be made in accordance with the instructions contained herein.

Bid forms shall be completely filled out either typewritten or in ink. The **complete set of contract documents must be submitted** with the proposal, in triplicate with **ONE ORIGINAL AND TWO COPIES, CLEARLY MARKED. BIDS WHICH FAIL TO SUBMIT THE ENTIRE COMPLETED BID PACKAGE AND CONTRACT CLEARLY MARKED WILL BE REJECTED, WILL BE NON-CONFORMING, AND WILL NOT BE ACCEPTED.**

Bids shall be submitted on the forms furnished by the County of Will in a sealed package, plainly marked, with the bidder's name, address, and the notation:

SEALED BID: REMOVAL AND REPLACEMENT OF TRENCH DRAINS AT TWO (2) WILL COUNTY DIVISION OF TRANSPORTATION MAINTENANCE GARAGES, LOCKPORT AND JOLIET LOCATIONS

BIDS DUE: WEDNESDAY, AUGUST 10, 2022 – 10:00 AM

Bids shall be addressed to the Will County Purchasing Department, Will County Office Building, 302 N. Chicago Street, Joliet, IL, 60432.

B. SIGNATURE OF BIDS:

The **signature on bid documents must** be that of an authorized representative of bidder. An officer of or agent of the offering bidder who is empowered to bind the bidder in a contract shall sign the proposal and any clarifications to that proposal.

Each bidder, by making his bid, represents that he has read and understands the bidding documents. **Any bid not containing said signed documents shall be non-conforming and will be rejected.**

C. BID SECURITY:

A 10% Bid Bond or Cashier's Check made payable to the Will County Treasurer shall accompany each bid, attached to the front cover, as a guarantee that if the bid is accepted, a Contract will be entered into. **Money Orders or Company checks will not be accepted.** The bid bond should be based on 10% of bid. The unsuccessful bidders' checks will be returned after the County Board has awarded the bid. The bid bond or cashier's check of the successful bidder will be returned after being replaced with their performance bond.

D. PERFORMANCE BOND:

A Performance Bond for the amount of the Contract will be required from the successful bidder and shall be valid throughout the life of the Contract. The Performance Bond will be returned at the successful completion of the Contract. If it is difficult to acquire a Performance Bond by the time of the Contract is to commence, the County will accept a letter notarized by the Insurance Carrier showing that such Bond is being processed.

E. PRIME CONTRACTOR CERTIFICATION:

Included in this bid package is a Prime Contractor Certification Form. This form must be filled out and returned with your sealed bid package or the bid package **will not be accepted, shall be deemed non-conforming and shall be rejected.**

F. BIDDING PROCEDURES:

1. All bids must be prepared on the forms provided by the County and submitted in triplicate, with **ONE ORIGINAL AND TWO COPIES OF THE ENTIRE COMPLETED BID PACKAGE AND CONTRACT, CLEARLY MARKED,** in accordance with the Instructions to bidders. **Any bid packages not containing ONE ORIGINAL AND TWO COPIES OF THE ENTIRE COMPLETED BID PACKAGE AND CONTRACT, CLEARLY MARKED shall be deemed non-conforming and shall be rejected.** The entire bid package are the terms of the agreement.
2. A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of bids indicated in the Advertisement for bids or prior to any extension thereof issued to the bidders.
3. Unless otherwise provided in any supplement to the Instructions to bidders, no bidder shall modify, withdraw or cancel his bid or any part thereof for sixty (60) days after the time designated for the receipt of bids in the Advertisement for Bids. This duration is in place in case selected contractor fails to perform during the first month following contract award.
4. Changes or corrections may be made in the bid documents after they have been issued and before bids are received. In such cases a written addendum describing the change or correction will be issued by the County of Will to all bidders recorded by the County of Will as having attended the site visit. Such addendum shall take precedence over that portion of the documents concerned and shall become part of the bid documents. Except in unusual cases, addendum will be issued to reach the bidders at least five (5) days prior to date established for receipt of bids. **If the signed receipt of Addenda form is not included in the bid package and contract (EVEN IF NO ADDENDA ITEMS), the bid package and contract shall be non-conforming and shall be rejected.**
5. Each bidder shall carefully examine all bid documents and all addenda thereto and shall thoroughly familiarize themselves with the detailed requirements thereof prior to submitting a proposal. Should a bidder find discrepancies or ambiguities in, or omissions from documents, or should they be in doubt as to their meaning, they shall, at once, and in any event, not later than five (5) days prior to bid due date, notify the County of Will, who will, if necessary, send written addendum to all bidders. The County will not be responsible for any oral instructions. All inquiries shall be directed to the Purchasing Director in writing at Klynn@willcountyillinois.com. After sealed bids are received, the bidder will make no allowance for oversight.

G. TAX EXEMPTION:

The County of Will is exempt from Federal, State and Municipal Taxes.

H. WORDS AND FIGURES:

Where amounts are given in both words and figures, the words shall govern. If the amount is not written in words, the unit cost will take precedence over the extended price in case of a discrepancy in the multiplication.

I. CONTRACT DURATION:

The Contract is to commence after County Board Approval on September 15, 2022.

J. REJECTION OF BIDS:

The bidder acknowledges the right of the County of Will to reject any and all bids received.

K. DEFAULT:

In case of default by the successful bidder, the County of Will may procure the articles or services from other sources and may deduct from any unpaid balance due the successful bidder any increase in cost to the county as a result of said default, or may collect against the bond or surety for excess costs so paid, and the prices paid by the County of Will shall be considered the prevailing market price at the time such purchase is made.

L. NON-DISCRIMINATION:

The Contractor shall at all times observe and comply with any law, statute, regulation or the like relating in any way to civil rights including but not limited to 775 ILCS 10/1.

M. EQUAL EMPLOYMENT OPPORTUNITY:

Contractor shall comply with the Illinois Human Rights Act, 775 ILCS 5/1-101 et seq., as amended and any rules and regulations promulgated in accordance therewith, including, but not limited to the Equal Employment Opportunity Clause, Illinois Administrative Code, Title 44, Part 750

N. PAYMENT PERIOD:

Given the scope of the project, one (1) invoice will be submitted to the County of Will, Department of Transportation, at time of project completion and upon acceptance of the work by the Will County Division of Transportation. Payment to the Contractor by the County shall be pursuant to the Local Government Prompt Payment Act, 50 ILCS 505/1 et seq.

O. RISK OF LOSS:

The Contractor shall assume all risks for loss or damages to materials whether stored on the site or elsewhere, or to tools or equipment owned or rented by the Contractor, and he shall maintain such insurance as he may deem necessary to protect himself against such loss or damage.

P. TYPES OF INSURANCE:

1. **Worker's compensation insurance.** The Contractor shall procure worker's compensation insurance as required by applicable state law for all of his employees who would be engaged in work on the project. In case any class of employees engaged in any work on the project under this Contract is not protected under the workmen's compensation statute, the Contractor shall provide adequate employer's liability insurance for the protection of such of his employees as are not otherwise protected. In addition, the Contractor will provide employer's liability (coverage B) in the amount of \$1,000,000.00.
2. **Contractor's comprehensive general liability and property damage insurance.** Contractor's comprehensive general and property damage insurance shall be in an amount not less than \$1,000,000.00 for injuries including accidental death to any one person and not less than \$1,000,000.00 combined single limit bodily injury and property damage.

3. **County's protective liability insurance.** The Contractor shall protect the County or its assignee, if any, from contingent responsibility arising from the work, project operation performed under this Contract by adding these parties as named insured as a rider to the general Contractor specified comprehensive general liability policy shall be: County of Will, 302 North Chicago Street, Joliet, Ill, 60432. All insurance policies shall contain a waiver of subrogation in favor of the County of Will.

Q. PROOF OF CARRIAGE OF INSURANCE:

1. The Contractor shall furnish the County at the time of bidding, with certificates showing the type, amount, class or operations covered, effective dates and dates or expiration of policies, which policies shall show compliance with the requirements of paragraph P. Such certificates shall also contain substantially the following statement: "The Insurance covered by this Certificate will not be canceled or materially altered except after 30 days written notice has been received by all named insured." **Any bid not containing said proof of insurance shall be nonconforming and shall be rejected.**
2. All policies shall substitute the word "Occurrence" for "accident" for both bodily and property damage. "Occurrence" shall be defined to mean an event or series of events or continuous or repeated exposure to conditions, which unexpectedly cause injury or damage during the policy period.
3. All insurance coverage shall be provided by Insurance Companies maintaining a financial strength and claims paying ability rating no lower than "A" minus "VIII" as rated by the most current AM Best's Insurance Guide.

R. TAXES:

The Contractor shall pay all applicable sales, use, service use, service occupation, social security, and other taxes, levies, assessments, and duties, and shall make income tax deductions, all as required by local, State and Federal law.

S. CHOICE OF LAW AND VENUE:

The bid and this agreement shall be governed by the laws of the State of Illinois, without regard to conflict of law provisions. Venue for any cause of action related to this bid or agreement shall be the Twelfth Judicial Circuit, Will County, Illinois.

T. RIGHT OF THE COUNTY TO TERMINATE CONTRACT:

1. If any of the Provisions of the Contract are violated by the Contractor, or if the Contractor shall disregard applicable law, ordinances, rules or regulations or work requirements as spelled out in the bid specifications, or the Contractor shall be adjudged as bankrupt or make a general assignment for the benefit of creditors, or if a receiver should be appointed for the Contractor, or if at any time during the progress of the work the Contractor should allow any indebtedness to accrue for labor, material, or equipment, and should the Contractor fail to pay for labor, material, or equipment, and should the Contractor fail to pay and discharge the same within 5 days after demand made by the person or persons furnishing such labor, material or equipment, the County may serve written notice upon the Contractor and the Surety of its intention to terminate the Contract. Unless within 10 days after the serving of such notice upon the Contractor, such violation or other matter shall have been corrected or satisfactory arrangement for correction have been made, the Contractor shall, upon the expiration of said 10 days, at County's option, cease and terminate work. The Contract shall then be automatically terminated, except that the rights and obligations under paragraphs D, K and P shall survive termination of the contract..

2. In the event of any such termination, the County shall immediately serve notice thereof upon the Surety and the Contractor, and the Surety shall have the right to take over and perform the Contract; provided, however, that if the Surety does not commence performance thereof within 10 days from the date of the mailing of such Surety of notice of termination, the County may take over work and prosecute the same to completion by other Contract or by force. Contractor shall be liable to the County for any excess cost to the County occasioned thereby, and in such event the County may take possession of and utilize in completing the work, such material, equipment and the like as may be on the project site of the work and necessary, therefore.
3. Notwithstanding anything contained herein to the contrary, failure to comply with or perform the services required shall be cause for termination.
4. The County or its assign may terminate this agreement by giving the Contractor written notification of termination of this agreement by registered United States Mail, sufficient postage prepaid, return receipt requested, addressed to the Contractor at its address stated in the Contract, at least 14 days prior to termination, with service of such notice conclusively presumed to be received on date of dispatch. In such event, the Contractor shall only be entitled to receive a prorated payment for work actually and satisfactorily performed pursuant to the Contract through date of termination.

U. ILLINOIS FREEDOM OF INFORMATION ACT:

Any and all submissions to the County of Will become the property of the County of Will and these and any late submissions will not be returned. Your proposal will be open to the public under the Illinois Freedom of Information Act (FOIA) (5 ILCS 140*et seq.*) and other applicable laws and rules, unless you request in your proposal that we treat certain information as exempt. We will not honor requests to exempt entire proposals. You must show the specific grounds in FOIA or other law or rule that support exempt treatment. If you request exempt treatment, you must submit an additional copy of the proposal with exempt information deleted. This copy must tell the general nature of the material removed and shall retain as much of the proposal as possible. In the event the County of Will receives a request for a document submitted, the County of Will shall provide notice to contractor as soon as practicable. Regardless, contractor will be responsible for any costs or damages associated with defending your request for exempt treatment. Furthermore, contractor warrants that County of Will's responses to requests for a document submitted that is not requested to be exempt will not violate the rights of any third party.

Please be advised that if your proposal is accepted by the County of Will all related records maintained by, provided to, or required to be provided to the County of Will during the contract duration are subject to FOIA. In the event the County of Will receives a request for a document relating to contractor, its provision of services, or the arranging for the provision of services, the County of Will shall provide notice to contractor as soon as practicable and, within the period available under FOIA, contractor may then identify those records, or portions thereof, that it in good faith believes to be exempt from production and the justification for such exemption. Regardless, contractor will be responsible for any costs or damages associated with defending the request for exempt treatment. Furthermore, contractor will warrant that County of Will's responses to requests for a document relating to contractor, its provision of services, or the arranging for the provision of services, or the arranging for the provision of services, will not violate the rights of any third party.

Please be advised also that FOIA provides that any record in the possession of a party with whom the County of Will has contracted to perform a governmental function on behalf of the County of Will, and that directly relates to the governmental function and is not otherwise exempt under FOIA is considered a public record of the County of Will for purposes of FOIA. 5 ILCS 140/7(2). As such, upon request by the County of Will (or any of its officers, agents, employees or officials), the contractor shall provide to the County of Will at no cost and within the timeframes of FOIA a copy of any "public record" as required by FOIA and in compliance with the provisions of FOIA. After request by the County of Will, contractor may then identify those records, or portions thereof, that it in good faith believes to be exempt from production and the justification for such exemption. Regardless, contractor will be responsible for any costs or damages associated with defending the request for exempt treatment.

V. ADVERTISEMENTS:

The bidder shall not place or maintain any signs, bills, posters, or other advertisements in or about the project sites and/or buildings, except by written permission of County of Will.

W. AWARDING OF BID:

The bid is expected to be awarded after the September 15, 2022 meeting of the Will County Board.

The bidder acknowledges the following: (a) this advertisement for bids may be canceled for good cause when in the best interests of the County, (b) the County Board retains the right to reject any and all bids in whole or in part for good cause when in the best interests of the County, and (c) the County Board retains the right to reject any and all bids in whole or in part not in compliance with the advertisement for bids, to waive any non-material informalities or irregularities for any bid received, to accept the lowest responsible, responsive bid after all bids have been examined and evaluated, and to determine not to proceed to contract on any particular bid.

X. SITE VISIT:

A Mandatory Site Visit is scheduled for 9:00 AM, Wednesday, August 3, 2022 at 1240 Caton Farm Road, Lockport, IL 60441, followed by the Joliet location, in order to examine site and building to satisfy yourself fully as to all the existing conditions under which you will be obliged to work. No allowance will be made subsequently, in this condition, on behalf of any Bidder for any error or negligence on bidder's part.

Y. SUBMITTAL SUMMARY REQUIREMENTS:

Each of the following items **must** be submitted by the bid time mentioned herein in order that the bid will be considered. **Any bid not containing items 1-6 below shall be non-conforming and shall be rejected:**

1. 10% Bid Bond or Cashier's Check
2. Certificates of Insurance
3. **Signed** Copy of Prime Contractor Certification
4. **Signed** Bid Form
5. **Signed** Receipt of Addenda Form
6. One original and two copies of entire Bid Package.

SCOPE OF WORK

SECTION A: EXECUTIVE SUMMARY

A.1 Background. The Will County Division of Transportation (DOT) is in need of removal and replacement of existing trench drains located at two (2) separate Vehicle Maintenance Garages located at 1240 Caton Farm Road, Lockport, IL 60441 and 16841 W. Laraway Road, Joliet, IL 60433. At both locations, the existing trench drains have deteriorated to the point where removal and replacement is required. Will County is issuing this Invitation to Bid to experienced and qualified trade contractors interested in the completion of this project scope at both locations.

SECTION B: POINT OF CONTACT

John G Cairns Jr
Maintenance Administrator
Will County Division of Transportation (WCDOT)
16841 W Laraway Rd
Joliet, IL 60433
(815)-774-6312 – Office
(815)-482-4892 – Cell
(815)-774-6295 - Fax
jcairns@willcountyillinois.com

SECTION C: SCOPE OF WORK

Contractor shall include all material, labor, and equipment required for saw cutting, removal, and legal disposal of existing trench drain systems, excavation, assembly, and reinforcement of proposed trench drain system including Portland Cement Concrete IDOT Class PV included as specified in current version of IDOT Standard Specifications for Road and Bridge Construction.

C.1A Scope of Work – 1240 Caton Farm Road, Lockport, IL, Maintenance Garage

- 1.1 Assuming an 8" existing concrete slab, reinforced with #4 rebar, saw cut existing concrete slab to establish smooth transition edges required for new, 6" trench drain assembly and plumbing tie-in to existing triple basin (reference site photos and details included in Exhibit A, attached).
- 1.2 Remove and legally dispose of existing concrete and trench drain assembly. Excavate slab opening to depth necessary to accommodate installation of new 6" trench drain assembly and plumbing tie-in to existing triple basin.
- 1.3 Furnish and install engineered fill. Compact engineered fill, as required. Concrete may be used in lieu of engineered fill.
- 1.4 Furnish and install approx. 80 linear feet of new, 6" trench drain, complete with heavy duty catch basin and ductile iron slotted class E grates, all subject to review and approval by WCDOT prior to installation.

- 1.5 Utilizing a plumber duly licensed by the State of Illinois, install new, 4" Schedule 40 PVC from new trench drain assembly to existing triple basin, providing heavy duty cleanouts at standard intervals, as required. Also connect new trench drain plumbing to existing underfloor vent piping.
- 1.6 In accordance with trench drain detail included in Exhibit C (attached), install epoxy coated # 4 rebar to existing slab edge, and place the appropriate amount of IDOT CLASS PV concrete, per IDOT specifications. Finish new concrete to achieve proper match to both existing slab elevation with appropriate slope for positive drainage to newly installed trench drain assembly.

C.1B Scope of Work – 16841 W. Laraway Road, Joliet, IL, Maintenance Garage

Contractor shall include all material, labor, and equipment required for saw cutting, removal, and legal disposal of existing trench drain systems, excavation, assembly, and reinforcement of proposed trench drain system including Portland Cement Concrete IDOT Class PV included as specified in current version of IDOT Standard Specifications for Road and Bridge Construction.

- 1.1 Assuming an 8" existing concrete slab, reinforced with #4 rebar, saw cut existing concrete slab to establish smooth transition edges required for new, 6" trench drain assembly and plumbing tie-in to existing triple basin (reference site photos and details included in Exhibit B, attached).
- 1.2 Remove and legally dispose of existing concrete and trench drain assembly. Excavate slab opening to depth necessary to accommodate installation of new 6" trench drain assembly and plumbing tie-in to existing triple basin.
- 1.3 Furnish and install engineered fill. Compact engineered fill, as required. Concrete may be used in lieu of engineered fill.
- 1.4 Furnish and install approx. 80 linear feet of new, 6" trench drain, complete with heavy duty catch basin and ductile iron slotted class E grates, all subject to review and approval by WCDOT prior to installation.
- 1.5 Utilizing a plumber duly licensed by the State of Illinois, install new, 4" Schedule 40 PVC from new trench drain assembly to existing triple basin, providing heavy duty cleanouts at standard intervals, as required. Also connect new trench drain plumbing to existing underfloor vent piping.
- 1.6 In accordance with trench drain detail included in Exhibit C (attached), install epoxy coated # 4 rebar to existing slab edge, and place the appropriate amount of IDOT CLASS PV concrete, per IDOT specifications. Finish new concrete to achieve proper match to both existing slab elevation with appropriate slope for positive drainage to newly installed trench drain assembly.

PRIME CONTRACTOR CERTIFICATION

The undersigned hereby certifies that _____

Name of Company

is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of the Criminal Code of 1961.

Name of Representative

Title

Signature

Date

Note: A person who makes a false certificate commits a Class 3 Felony.

Sections 33E-3 and 33E-4 provide as follows:

33E-3. Bid-rigging. A person commits the offense of bid-rigging when he knowingly agrees with any person who is, or but for such agreement would be, a competitor of such person concerning any bid submitted or not submitted by such person or another to a unit of State or local government when with the intent that the bid submitted or not submitted will result in the award of a contract to such person or another and he either (1) provides such person or receives from another information concerning the price or other material term or terms of the bid which would otherwise not be disclosed to a competitor in an independent noncollusive submission of bids or (2) submits a bid that is of such a price or other material term or terms that he does not intend the bid to be accepted.

Bid rigging is a Class 3 felony. Any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation as provided in paragraph (2) of subsection (a) of Section 5-4 of this Code.

33E-4 Bid rotating. A person commits the offense of bid rotating when, pursuant to any collusive scheme or agreement with another, he engages in a pattern over time (which, for the purposes of this Section, shall include at least 3 contract bids within a period of 10 years, the most recent of which occurs after the effective date of this amendatory Act of 1988) of submitting sealed bids to units of State or local government with the intent that the award of such bids rotates, or is distributed among, persons or business entities which submit bids on a substantial number of the same contracts. Bid rotating is a Class 2 felony. Any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation as provided in paragraph (2) of subsection (a) **of Section 5-4 of this Code.**

Possible violations of Section 33 can be reported to the Office of the Will County State's Attorney at (815) 727-8453.

BID FORM

Date Released 07-25-22
Due: 08-10-22, 10:00 A.M.
Open: 08-10-22, 10:05 A.M.

PURCHASING DEPARTMENT
COUNTY OF WILL
302 N. CHICAGO ST
JOLIET, IL 60432

CONTRACT FOR
WC DOT TRENCH DRAINS
2022-72 WC DOT

The Bidder proposes to provide the products and/or services in accordance with the specifications attached herein.

COMPANY NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____
CONTACT _____ E-MAIL _____
PHONE _____ FAX _____ FEIN# _____

For additional information contact:
KEVIN LYNN, PURCHASING DIRECTOR, klynn@willcountyillinois.com

REMOVAL AND REPLACEMENT OF TRENCH DRAINS AT TWO (2) WILL COUNTY DEPARTMENT OF TRANSPORTATION MAINTENANCE GARAGES, LOCKPORT AND JOLIET LOCATIONS

Cost Components. Respondents shall provide itemized costs for each piece of equipment and/or service to be provided, including, but not limited to all equipment, shipping, delivery, handling, installation, labor, commissioning, connection, integration, and other fees that may be associated with each bid task. All these costs should then be summarized with a bottom-line figure.

| DESCRIPTION | COST |
|---|------|
| Removal/Replacement of Trench Drains, Lockport Location: | \$ |
| Removal/Replacement of Trench Drains, Joliet Location: | \$ |
| TOTAL COST: REMOVAL/REPLACEMENT OF TRENCH DRAINS AT BOTH LOCKPORT & JOILET LOCATIONS | \$ |
| TOTAL CONTRACT AMOUNT WRITTEN IN WORDS. IN CASE OF DISCREPANCY, THE AMOUNT IN WORDS SHALL GOVERN. _____ | |

Signed By: _____ **Title:** _____

ADDENDUM FORM

Date Released:07-25-22

Due: 08-10-22, 10:00 A.M

Open: 08-10-22, 10:05 A.M

PURCHASING DEPARTMENT

COUNTY OF WILL

302 N. CHICAGO ST

JOLIET, IL 60432

CONTRACT FOR

WC DOT TRENCH DRAINS

2022-72 WC DOT

The Bidder proposes to provide the products and/or services in accordance with the specifications attached herein.

The Bidder proposes to provide the products and/or services in accordance with the specifications attached herein.

COMPANY NAME _____
 ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 CONTACT _____ E-MAIL _____
 PHONE _____ FAX _____ FEIN# _____

ADDENDUM RECEIPT: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

ADDENDUM RECEIPT: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

ADDENDUM RECEIPT: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

ADDENDUM RECEIPT: Receipt of the following Addendum to the Bidding Documents is hereby acknowledged:

No. _____, dated _____, signed _____

LATE BIDS CANNOT BE ACCEPTED!

| | |
|---|-----------------------------|
| <u>SEALED BID DOCUMENT</u> | |
| <u>Vendor Return Address:</u> | |
| | |
| BID #: | 2022-72 |
| DUE DATE: | 08-10-22 |
| DUE: | 10:00 A.M. |
| DESCRIPTION: | WC DOT TRENCH DRAINS |
| DATED MATERIAL-DELIVER IMMEDIATELY | |
| WILL COUNTY PURCHASING DEPARTMENT | |
| 302 N. CHICAGO ST., 2ND FLOOR | |
| JOLIET, IL 60432 | |

PLEASE CUT OUT AND AFFIX THIS BID LABEL (ABOVE) TO THE OUTERMOST ENVELOPE OF YOUR SEALED BID TO HELP ENSURE PROPER DELIVERY!

LATE BIDS CANNOT BE ACCEPTED!

EXHIBIT A
PHOTOGRAPHS AND DETAILS FOR REMOVAL AND
REPLACEMENT OF TRENCH DRAINS AT WCDOT VEHICLE
MAINTENANCE GARAGE LOCATED AT 1240 CATON FARM
ROAD, LOCKPORT, IL 60441

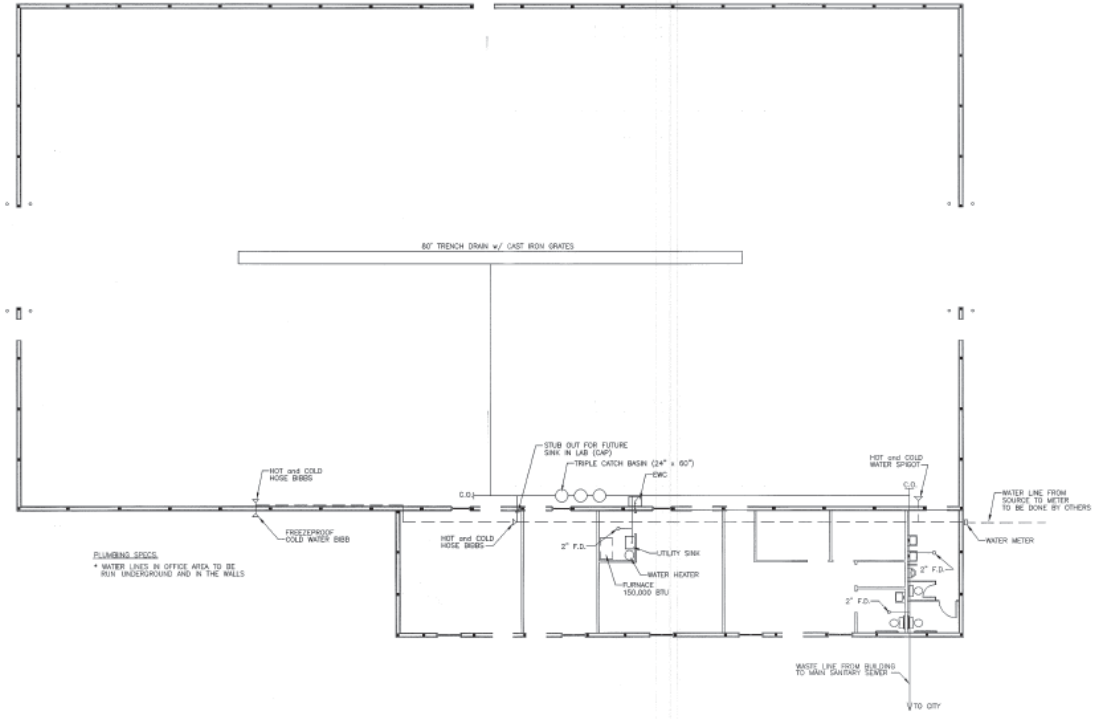
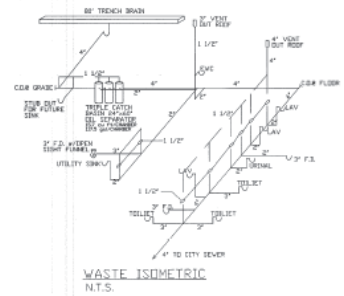
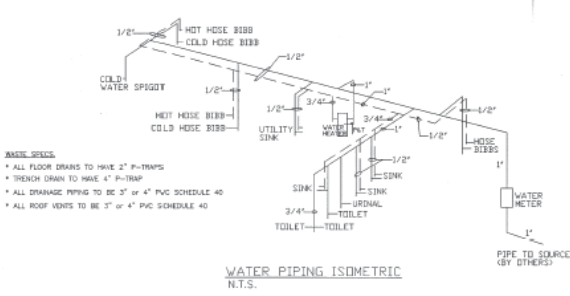












PLUMBING and WASTE PLAN
SCALE: 1/8" = 1'-0"

- 1) ALL WATER PIPING TO BE HARD COPPER ABOVE SLAB.
- 2) ALL WATER PIPING TO BE SOFT COPPER BELOW SLAB (NO JOINTS BELOW SLAB).
- 3) ALL WATER PIPING - HOT and COLD TO BE WRAPPED WITH ARMAFLEX.

| NO. | DATE | BY | DESCRIPTION | CHECK |
|-----|------|----|-------------|-------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SIGNAL

Caton Farm Maintenance Facility

Crest Hill, IL

PROJECT TITLE: PLUMBING PLAN

FBI

FBI Buildings, Inc.

1100 W. 11th Street, Suite 200
Chicago, IL 60607
312.467.1100

| | |
|--------------|-----------|
| PROJECT NO: | 300064101 |
| ISSUE DATE: | 12-8-08 |
| DESIGNED BY: | RJC |

SHEET

P-101

PROJECT # 300064

EXHIBIT B
PHOTOGRAPHS AND DETAILS FOR REMOVAL AND
REPLACEMENT OF TRENCH DRAINS AT WCDOT VEHICLE
MAINTENANCE GARAGE LOCATED AT 16841 W. LARAWAY
ROAD, JOLIET, IL 60433





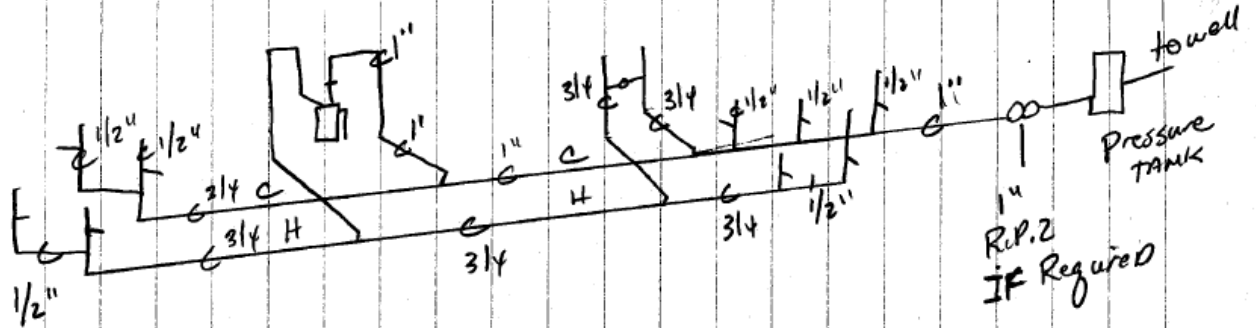






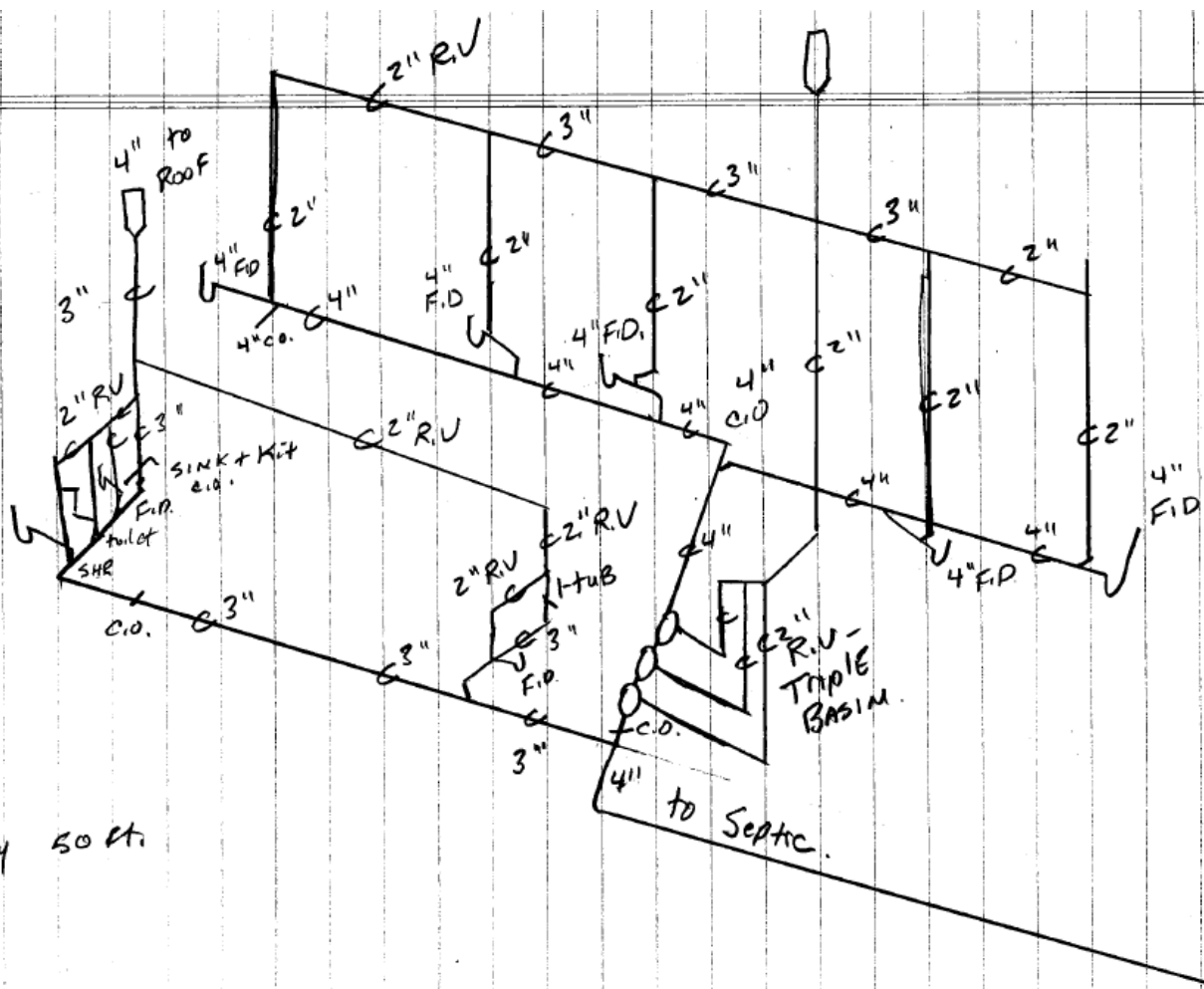


Will County Highway / EMA B.P.
 (water Diagram)



- * All Fixtures to HAVE stops
- * All Fixtures to HAVE 12" Air Chambers
- * 3/4" Rises to Be 24"

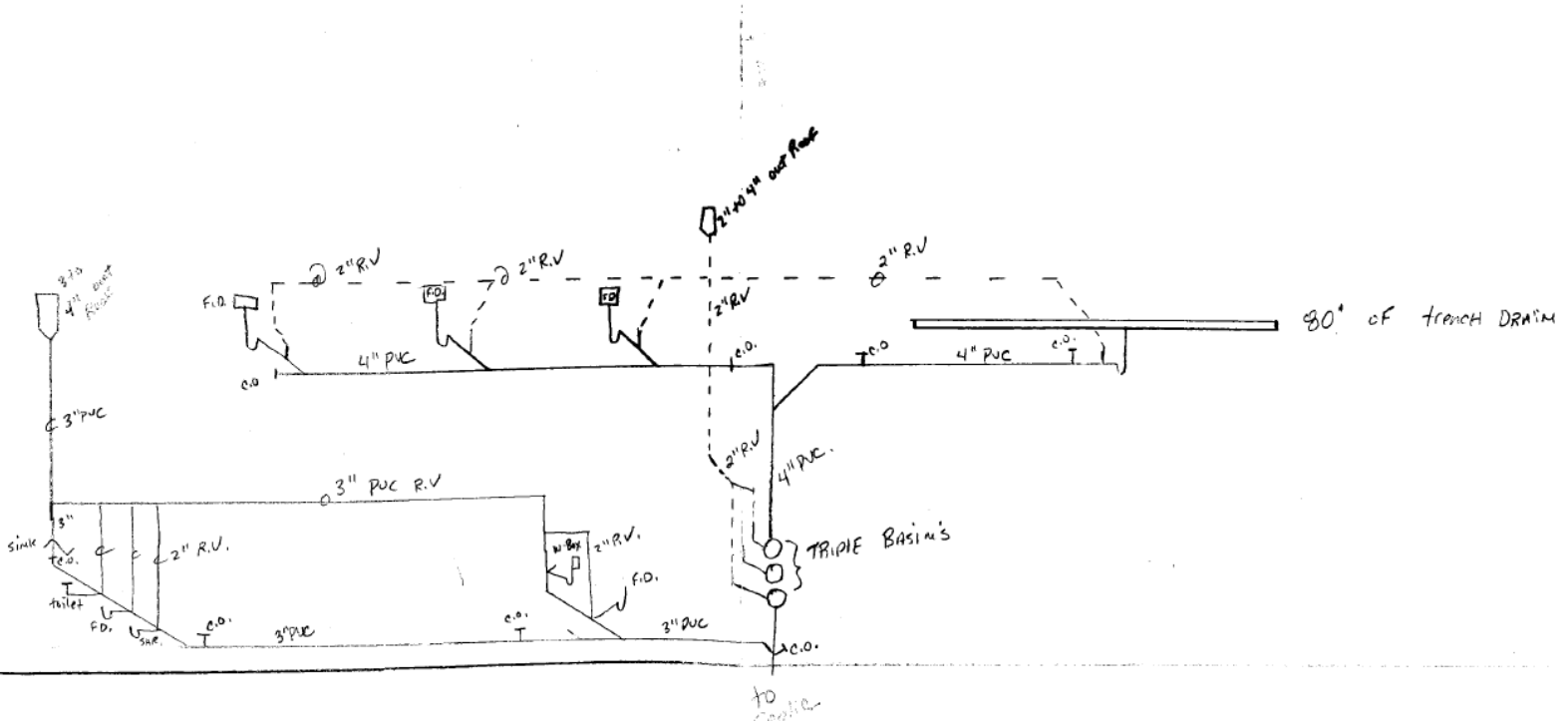
Hill County Highway / Emma RD -
 (DWV Diagram)
 Laraway & Bergers



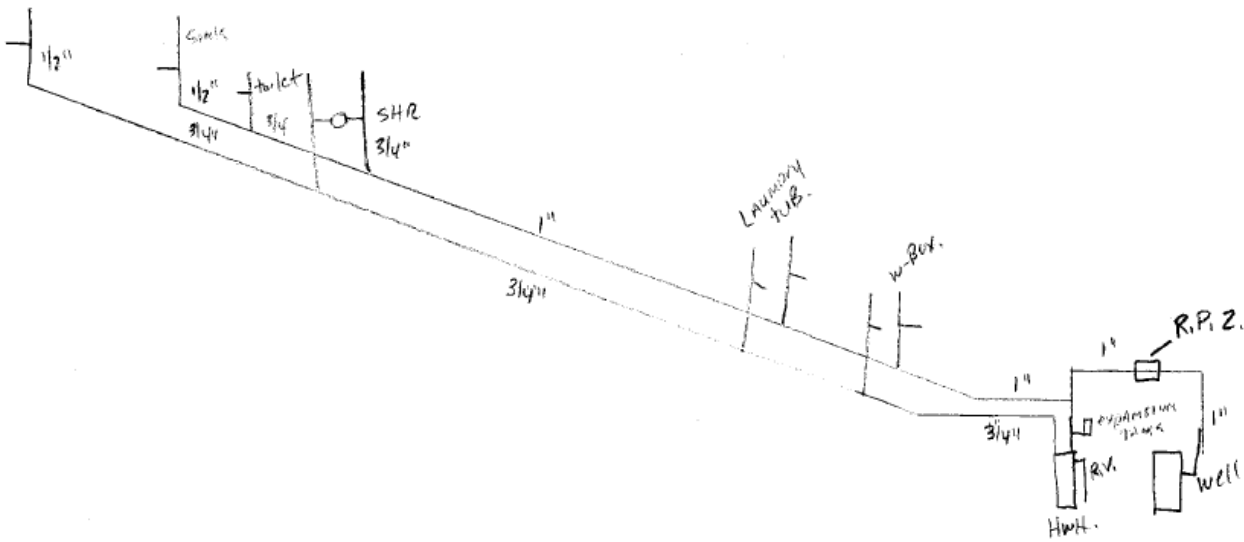
C.O. every 50 ft.

Will County BID : EMA/ Highway - UNDERGROUND / ABOVE Plumbing

- * F.D.'S TO BE 12"X12" cast iron w/ reasonable Summit Ricket.
- * 4" PRAPS ON ALL F.D.



Will County BID: EMT/Highway Dept. WATER PIPING



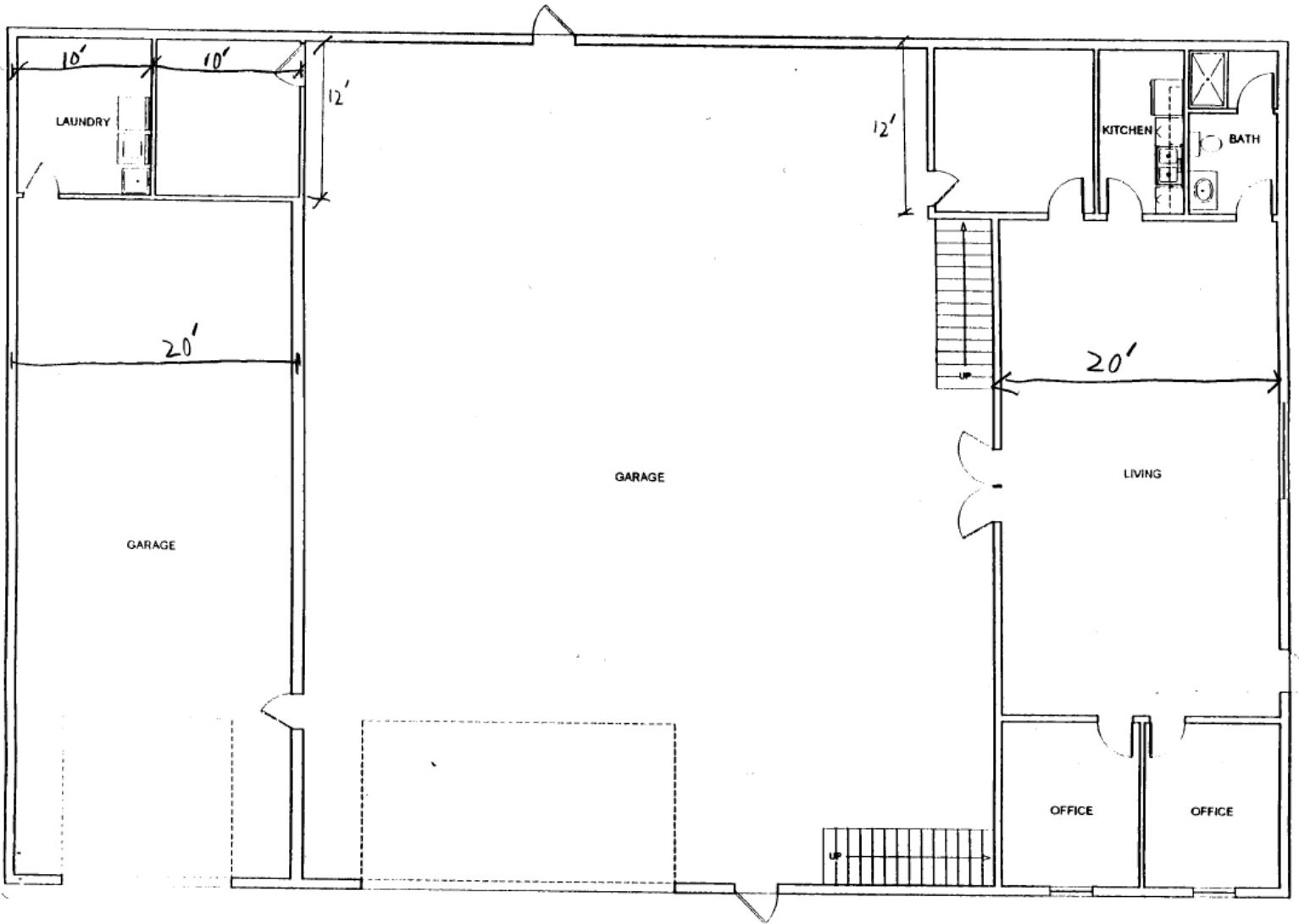


EXHIBIT C

NEW TRENCH DRAIN SPECIFICATIONS FOR REPLACEMENT OF TRENCH DRAINS AT WCDOT VEHICLE MAINTENANCE GARAGES LOCATED AT:

1240 CATON FARM ROAD, LOCKPORT, IL 60441

16841 W. LARAWAY ROAD, JOLIET, IL 60433

RECOMMENDED NEW TRENCH DRAIN ASSEMBLY:

Neenah R-4990-A6 (6" wide with type A Grate opening). See on page 4. Forming Information for this is on Page 13.

Or:

Neenah R-4996-A6 (M-Type) (6" wide with type A grate). See Page 5. This is a sap together option.

Or: Approved Equal

NEENAH FOUNDRY CO.

TRENCH SYSTEMS

MADE IN USA

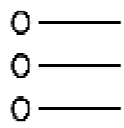
NEENAH **NF**
FOUNDRY
Since 1872



Over the years we have seen premature failure of bolted trench because of poor trench maintenance. A blind hole will fill with debris and prevent the bolt from turning down completely and properly holding the grate to the frame. A worker determined to properly fasten the grate can shear the bolt. Tightening a bolt against debris creates tensile stresses against the bond between the frame and the concrete supporting it

Neenah can solve bolt hole debris problems by eliminating all the maintenance issues altogether.

TABLE OF CONTENTS

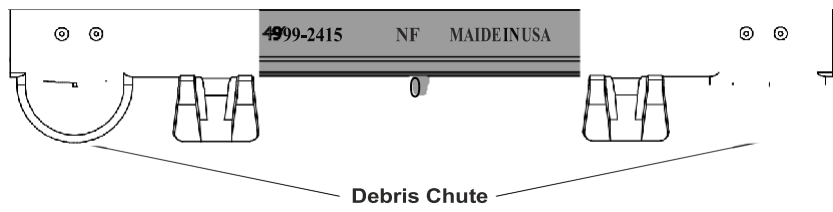


| | |
|--|-------|
| R-4990 & R-4999 Heavy Duty | pg 4 |
| R-4996 Type M Trench Frame | pg 5 |
| R-4996 Self Forming Trench Pan | pg 6 |
| R-3599 A & B Slotted Vane Drain | pg 7 |
| R-4999 Vane Type L Series | pg 7 |
| R-4993 Type T Frame-Heavy Duty | pg 8 |
| R-4994 Type S Frame-Heavy Duty | pg 8 |
| R-4990 Airport | pg 9 |
| R-4993 Airport Type T Frame | pg 10 |
| R-4993 Airport Type S Frame | pg 10 |
| Decorative Trench Grates | pg 11 |
| R-4993 Spring Assist Trench | pg 12 |
| R-4994 LiftMate Trench | pg 12 |
| R-4990 Heavy Duty | pg 13 |

Forming Instructions

| | |
|--|------------|
| R-4999 (Heavy Duty, Airport, L) | pg 14 |
| R-4996 (Type M & Self Forming) | pg 15 |
| R-4993- Type T (Heavy Duty & Airport) | pg 16 |
| R-4994- Type S (Heavy Duty & Airport) | pg 16 |
| R-4994 Trench Frame | pg 1 |
| R-3599 A & B Slotted Vane Drain | pg 17 |
| Reference Guides | pg 18 & 19 |

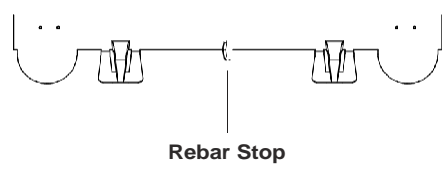
INTRODUCING THE DEBRIS CHUTE FOR BOLTED TRENCH



GENERAL

Neenah's debris chutes allow material that falls into the bolt hole of the frame to harmlessly pass through into the trench below.

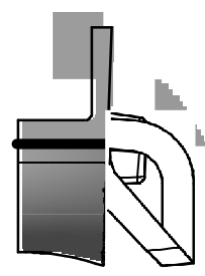
INNOVATION



Rebar Stop

The rebar stop prevents a common error for those who do not follow Neenah's recommended forming instructions.

IMPROVEMENT

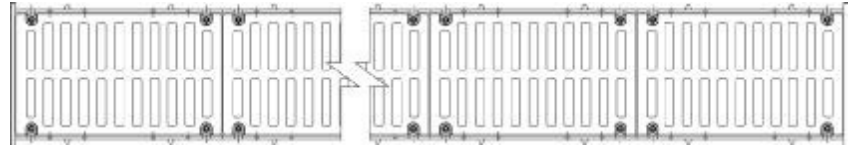


Rebar Lug

Easy anchored frame. The rebar lug on Neenah's patented frame is sized for a number 4 rebar. If the rebar is bent 90 degrees or less, it will automatically be positioned at the proper angle to the frame for anchoring in concrete.

R-4990 & R-4999 HEAVY DUTY TRENCH SERIES

Our R-4990 and R-4999 cast iron trench systems offer appealing aesthetics, exceptional longevity and low maintenance. No matter where they're placed, you can be confident Neenah Trench will stand strong



in any climate. Our newly designed frame includes many innovative features making the R-4990 and R-4999 trench series more durable than ever. Please see page 3 for more details. Our R-4990 trench systems are furnished non-bolted. All grates, lids and frames are cast gray iron, meeting ASTM-A48 Class 35-B for heavy-duty use. Typical uses for Neenah R-4990 trench systems include parking lots, loading docks, and warehouse drainage.

Our R-4999 trench systems are furnished bolted. Bolting should be considered for applications where high traffic speeds are

R-4990 HEAVY DUTY TRENCH

| CATALOG NO. | A | B | C | TYPE A | TYPE C | TYPE D | TYPE P | TYPE Q |
|-------------|------------|----|-----|--------|--------|--------|--------|--------|
| P-49 89' | P-4989-B* | 6 | 1 ½ | 4 | X | | X | X |
| P-4990-AX | P-4999-AX | 8 | 1 ½ | 6 | X | X | X | |
| P-4990-BX | P-4999-BX | 10 | 1 ½ | 8 | X | X | X | |
| P-4990-CX* | P-4999-CX' | 12 | 1 ½ | 10 | X | X | X | X |
| P-4990-DX | P-4999-DX | 14 | 1 ½ | 12 | X | X | X | X |
| P-4990-EX | P-4999-EX | 17 | 1 ½ | 15 | X | X | X | |
| P-4990-FX' | P-4999-FX* | 20 | 1 ½ | 18 | X | X | X | |
| P-4990-GX | P-4999-GX | 23 | 1 ½ | 21 | X | X | X | |
| P-4990-HX | P-4999-HX | 26 | 1 ½ | 24 | X | X | X | X |
| P-4990-JX | P-4999-JX | 30 | 2 | 27 | X | X | X | |
| P-4990-KX | P-4999-KX | 33 | 2 | 30 | X | X | X | |
| P-4990-LX | P-4999-LX | 36 | 2 | 33 | X | X | X | |
| P-4990-MX | P-4999-MX | 39 | 2 | 36 | X | X | X | |
| P-4990-NX | P-4999-NX | 45 | 2 | 42 | X | X | X | |
| P-4990-OX | P-4999-OX | 51 | 2 | 48 | X | | X | X |

* For complete list of Decorative Grates see page 11

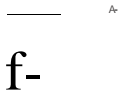
With the exception of certain airport, port and heavy industrial series trench systems cast in ductile iron, all frames, grates and lids are cast in gray iron, ASTM A48 Class 35-B for heavy-duty use.



R-4996 IYPE M TRENCH FRAME

| CATALOG NO. | COVER DIMENSIONS | | FRAME DIMENSIONS | | FRAME LENGTH | OUTLET LOCATION/SIZE | | | AVAILABLE GRATES/COVER | | | | | | | | |
|-------------|------------------|-----|------------------|---|--------------|----------------------|--------|------|------------------------|--------|--------|-----------|------------|-----------|--------|--------|--------|
| | A | B | C | D | | END | BOTTOM | SIDE | TYPE A | TYPE C | TYPE D | Riverwalk | Tidal Wave | Greek Key | c !T e | TYPE P | TYPE Q |
| R-4996-A6 | 6 | 1 ½ | 4 | 6 | 24 | 4 | 4,6 | 4 | X | | X | X | X | X | X | X | X |
| R-4996-AS | 8 | 1 ½ | 5 ½ | 4 | 24 | 4 | 4,6 | 4 | X | X | X | | | | | X | |
| R-4996-A12 | 12 | 1 ½ | 10 | 6 | 24 | 4,6 | 4,6,8 | 4,6 | X | X | X | X | X | | | X | X |

* For Decorative Crates see page11



R-4996-A6



R-4996-AS

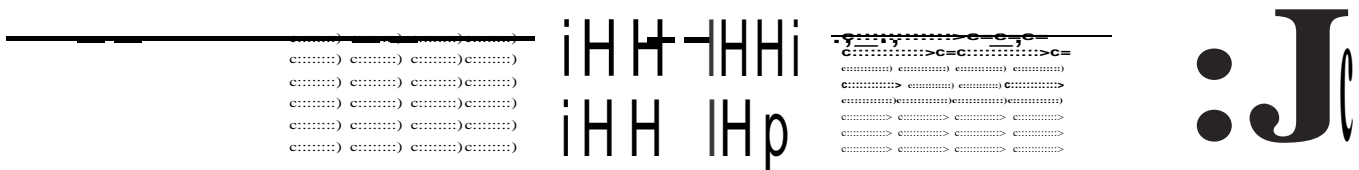


R-4996-A12

curb opening end cap

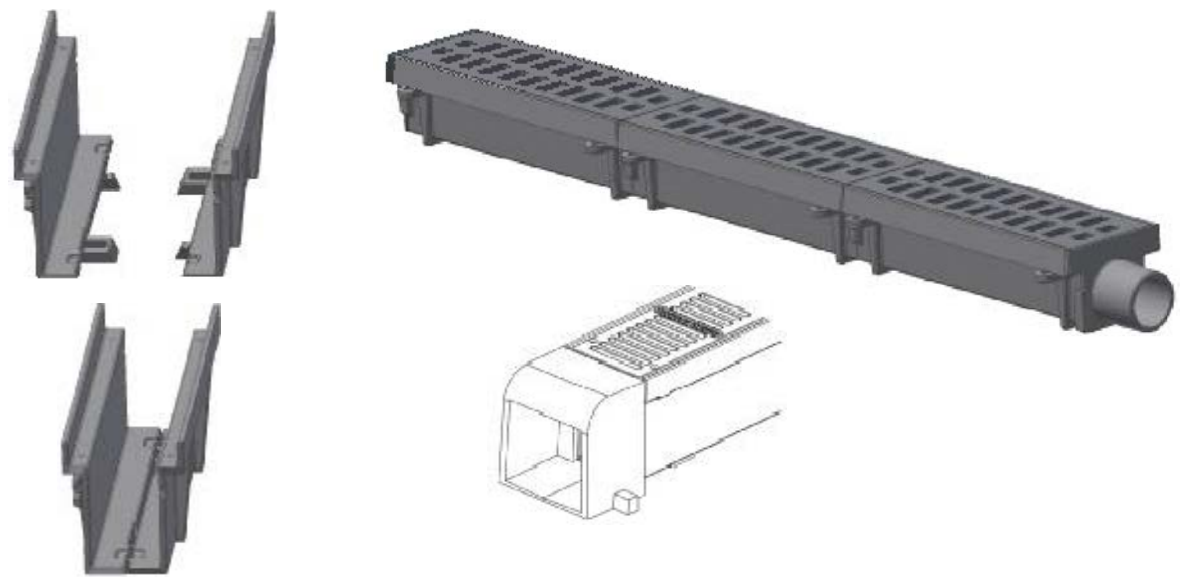
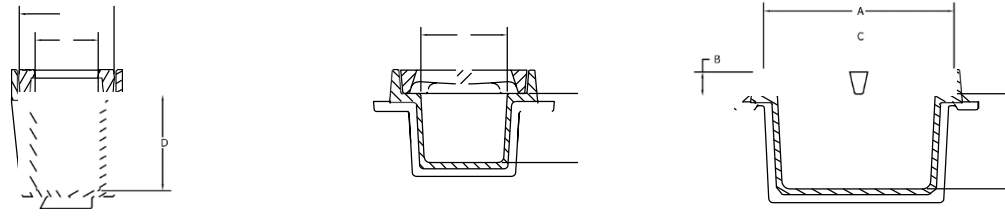
* For R-4996-A6 Frame only

Designed for exceptional durability, the New R-4996 Type M trench system virtually eliminates maintenance problems associated with the cracking and delaminating of non-iron trench pan materials. The R-4996 trench system installs quickly and inexpensively and withstands rough jobsite conditions . Typical uses for Neenah R-4996 Type M trench systems includes parking lots, loading docks, and sidewalk chase drain applications.



R-4996 TYPE M TRENCH FRAME

TYPE A TYPE B TYPE C TYPE D TYPE E TYPE F TYPE G TYPE H TYPE I TYPE J TYPE K TYPE L TYPE M TYPE N TYPE O TYPE P TYPE Q TYPE R TYPE S TYPE T TYPE U TYPE V TYPE W TYPE X TYPE Y TYPE Z



R-4996 Type M HEAVY DUTY

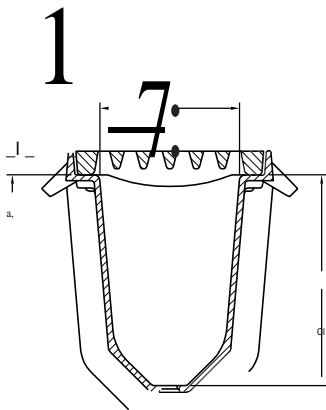


R-4996 SELF FORMING TRENCH PAN

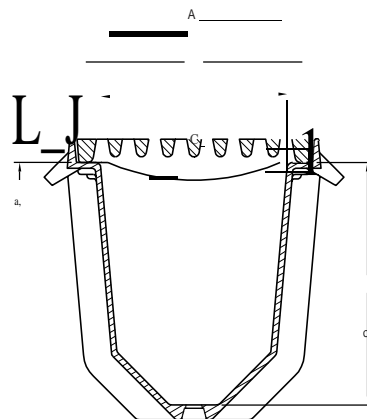
R-4996 SELF FORMING TRENCH PAN

| CATALOG NO. | STANDARD COVER DIMENSIONS | | | | FRAME LENGTH | OUTLET LOCATION/SIZE | | | AVAILABLE GRATES/COVER |
|-------------|---------------------------|-------|----|--------|--------------|----------------------|---------|-------|------------------------|
| | A | B | C | D | | END | BOTTOM | SIDE | |
| R-4996-A | 8 | | 6 | 9 | 30 | 4 | 4 | 4,6 | Q" |
| R-4996-B | 70 | | 8 | 70 1/2 | 30 | 4,6 | 4,6 | 4,6,8 | P, Q" |
| R-4996-C | 72 | 7 1/2 | 70 | 70 | 36 | 4,6,8 | 4, 6, 8 | 4,6,8 | A, C, D, L, P, Q |
| R-4996-CA* | 72 | 7 1/2 | 70 | 70 | 36 | 4,6,8 | 4,6,8 | 4,6,8 | A |

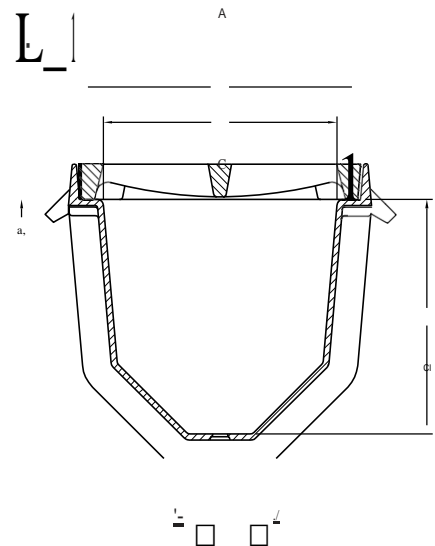
Type L grates furnished standard bolted
 * Aircraft Rated Standard Bolted
 ** Can be incorporated into plans for ADA Compliance
 For Decorative Grate Information, See Page 11



R-4996-A

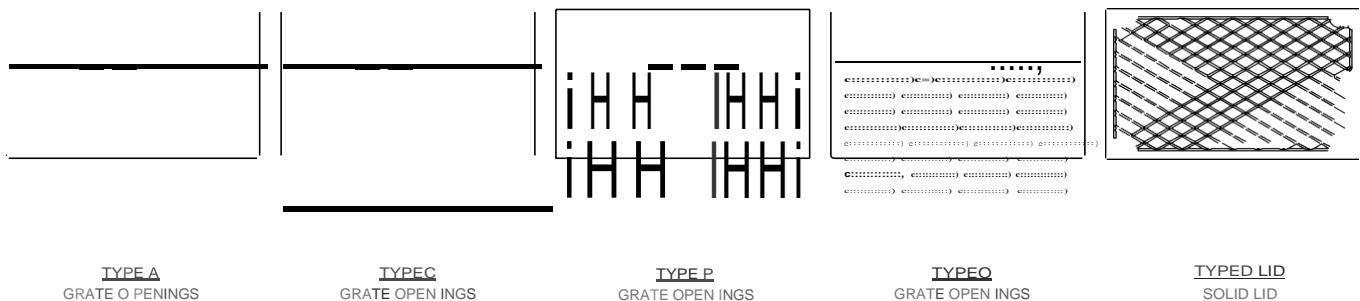


R-4996-B



R-4996-C & CA

Every Neenah Foundry trench system is built with lasting form and function, the R-4996 Self-Forming trench pan is no exception. Installation is made easy utilizing reusable inexpensive forms. Specifiers can be assured of hydraulic performance utilizing Neenah Foundry's hydraulic data collected from full scale testing of our products.



R-3599 SLOTTED VANE DRAIN

R-3599 SLOTTED VANE DRAIN

| CATALOG NO. | GRATE TYPE | SQUARE FEET OPEN | WEIR PERIMETER LINEAL FEET | TYPE |
|-------------|------------|------------------|----------------------------|------------------|
| R-35 99 - A | L | 0.2 per ft. | 2 per ft. | Heavy Duty |
| R-35 99 -B | L | 0.2 per ft. | 2 per ft. | Extra Heavy Duty |

Neenah's Cast Iron Slotted Vane Drain offers ease of installation along with the superior vaned configuration to capture previously unexpected quantities of water when placed perpendicular to the flow. This product is typically installed across driveway entrances, highway shoulders, loading docks or wherever sheet flow capture is required.

The R-3599 Slotted Vane Drain offers the superior performance of the vaned configuration as well as the strength, durability, and economy of gray iron. When the Slotted Vane Drain is installed perpendicular to the flow, the unique shape provides a capacity of 0.5 cfs per lineal foot of drain for longitudinal slopes from 0% to 6%.



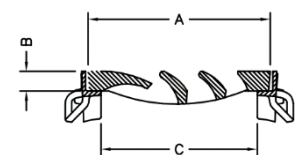
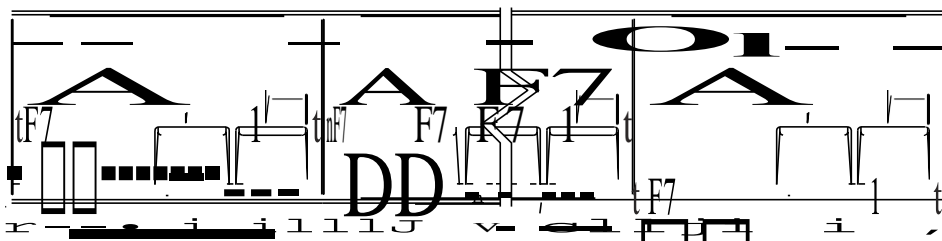
R-4999 VANED TYPE L SERIES

R-4999 VANED TYPE L SERIES

| CATALOG NO. | A | B | C |
|----------------|--------|---------|--------|
| R-4999-L2' | 12 | 1/1/02 | 10 |
| R-4999-L3' | 14 | 1/1/0 2 | 12 |
| R-4999-L6 " | 23 7/s | 2 | 21 7/s |
| R-4 999 -L7 ' | 26 5/s | 2 | 24 5/s |
| R- 4999 -L9' " | 29 ¾ | 2/1/02 | 26 ¾ |

* Furnished in 24" sections
 ** Furnished in 12" or 24" sections
 *** Furnished in 18" or 36" sections

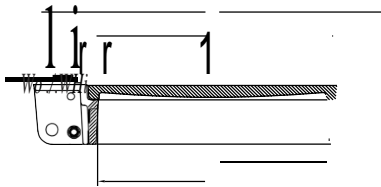
The growing popularity of Type "L" Vane Style Gates is not only because of their unbeatable capacity under virtually all flow conditions, but also because they're safer for bicycles than other grate styles. For these reasons, increasing numbers of states, counties and municipalities are adopting the Vane Style Gate as standard. Specifiers trust Type "L" vane shaped grates for the ability to remove significant amounts of sheet flow from streets, parking lots and industrial lots.



R-4993 & R-4994 SUPERIOR DURABILITY FRAMES

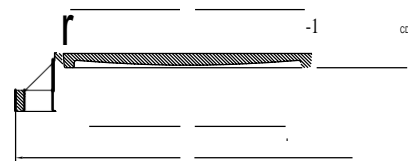
R-4 993 & R-4 99 4 HEAVY DUTY GRATE

| TYPET | TYPES | TYPET | | | | TYPES | | TYPE TYPE TYPE TYPE TYPE TYPE TYPE | | | | | | |
|-------------|--------------|-------|-----|----|------|-------|----|------------------------------------|---|---|---|---|---|---|
| CATALOG NO. | CATALOG NO. | A | B | C | E | C | E | A | C | D | E | L | P | Q |
| R-4 993 -AB | R-4 99 4 -AB | 8 | 1 ½ | 6 | 19 ¼ | 4 | 18 | X | X | X | X | | X | |
| R-4 99 3-BB | R-4 99 4 -BB | 10 | 1 ½ | 8 | 21 ¼ | 6 | 20 | X | X | X | X | | X | |
| R-4 993 -CB | R-4 99 4 -CB | 12 | 1 ½ | 10 | 23 ¼ | 8 | 22 | X | X | X | X | | X | X |
| R-4 993 -DB | R-4 99 4-D B | 14 | 1 ½ | 12 | 25 ¼ | 10 | 24 | X | X | X | X | X | X | X |
| R-4 993 -EB | R-4 994 -EB | 17 | 1 ½ | 75 | 28 ¼ | 13 | 27 | X | X | X | X | | X | |
| R-4 993 -FB | R-4 99 4-F B | 20 | 1 ½ | 18 | 31 ¼ | 16 | 30 | X | X | X | X | | X | |
| R-4 993 -GB | R-4 99 4 -GB | 23 | 1 ½ | 21 | 34 ¼ | 19 | 33 | X | X | X | | | | |
| R-4993 -HB | R-4994 -HB | 26 | 1 ½ | 24 | 37 ¼ | 22 | 36 | X | X | X | X | | | X |
| R-4993 -JB | R-4994 -JB | 30 | 2 | 28 | 41 ¼ | 26 | 40 | X | X | X | | | | |
| R-4993 -KB | R-4994 -KB | 33 | 2 | 31 | 44 ¼ | 29 | 43 | X | X | X | X | | | |
| R-4993 -LB | R-4994 -LB | 36 | 2 | 34 | 47 ¼ | 32 | 46 | X | X | X | | | | |
| R-4993 -MB | R-4994 -MB | 39 | 2 | 37 | 50 ¼ | 35 | 49 | X | X | X | | | | |
| R-4 993 -NB | R-4 99 4 -NB | 45 | 2 | 43 | 56 ¼ | 41 | 55 | X | X | X | | | | |
| R-4 99 3-OB | R-4 99 4 -OB | 57 | 2 | 49 | 62 ¼ | 47 | 61 | X | | X | | | X | X |



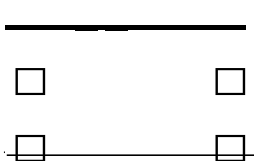
TYPE 'T' FRAME

254 square inches of masonry contact surface per foot.
 150 square inches of masonry bearing surface per foot.
 Frame top section provides transition platform onto and off grating surface.
 Provision for bolting successive frame sections together
 Provides significant reinforcing bar opportunity
 Bolt holes are drilled clear through cantilever seat and will not trap debris.

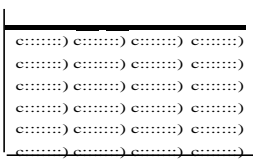


TYPE 'S' FRAME

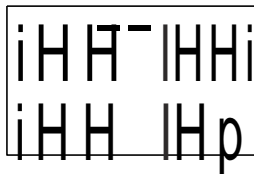
350 square inches of masonry contact surface per foot.
 65 square inches of masonry bearing surface per foot.
 Unique frame shape allows the clear opening to be wider than typical.
 Bolt holes are drilled clear through cantilever seat and will not trap debris.
 Provision for bolting successive frame sections together
 Provides significant reinforcing bar opportunity
 Frame is integrated within the concrete slab.
 Available with LiftMate ball and socket connector.



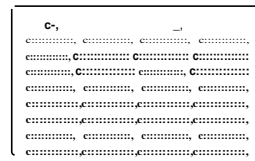
TYPE A
GRATE OPENINGS



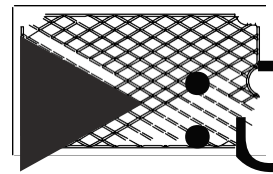
TYPE C
GRATE OPENINGS



TYPE P
GRATE OPENINGS



TYPE O
GRATE OPENINGS



TYPE D LID
SOLID LID

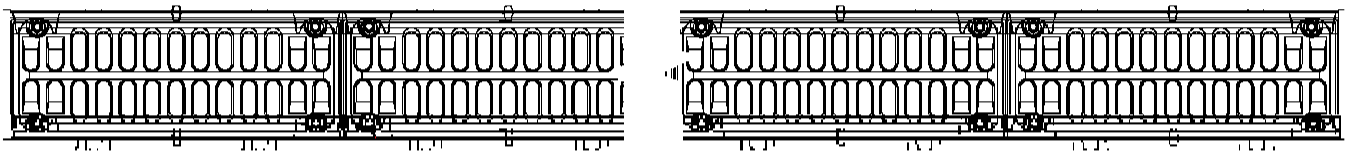
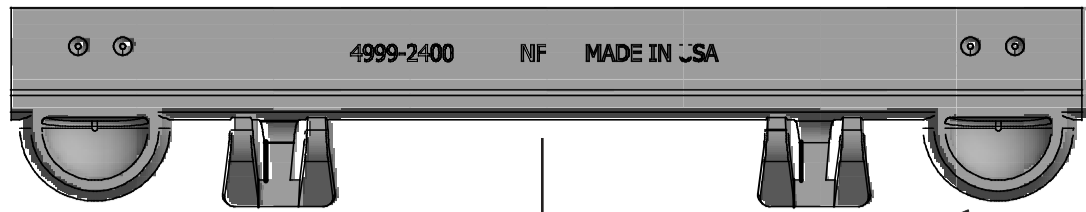
R-4990 AIRPORT, PORT, & HEAVY INDUSTRIAL SERIES

R-4990 AIRPORT

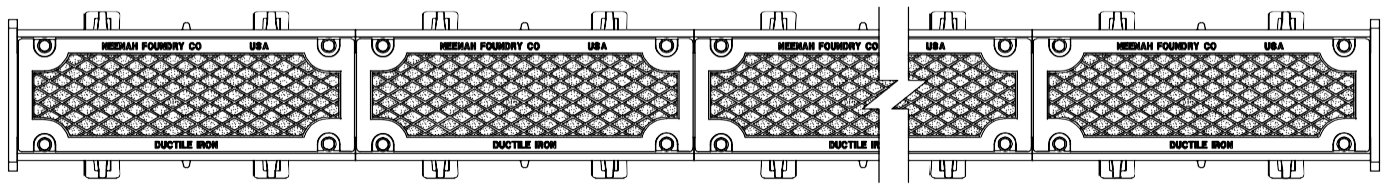
| CATALOG NO. | A | B | C | GRATE MATERIAL |
|---------------|----|---|----|----------------|
| R-4990-AA | 8 | 2 | 6 | Gray Iron |
| R-4990-BA | 10 | 2 | 8 | Gray Iron |
| R-4990-CA | 12 | 2 | 10 | Ductile Iron |
| R-4990-DA* ** | 14 | 2 | 12 | Ductile Iron |
| R-4990-EA* | 17 | 2 | 15 | Ductile Iron |
| R-4990-FA* | 20 | 2 | 18 | Ductile Iron |
| R-4990-HA* | 26 | 2 | 24 | Ductile Iron |
| R-4990-KA2* | 34 | 2 | 31 | Ductile Iron |
| R-4990-OA* | 51 | 2 | 48 | Ductile Iron |

Furnished standard with Type A Grate
 * Type D solid cover available.
 ** Type C grate available

Neenah Foundry's extra heavy-duty airport and port trench castings are exclusively manufactured to support the loadings imposed by all commercial and military aircraft. Proven to withstand time and rigors of repeated heavy wheel loads, Neenah trench systems provide continuous performance. Additional products are routinely being developed for our extra heavy-duty trench casting line, so if you don't find what you need in this brochure, please contact Neenah Foundry at 800-558-5075. We'll work with you and your application to provide an effective solution.



R-4990 Airport Type A Grate



R-4990 Airport Type D Solid Lid

Suitable for aircraft loading per FAA Advisory Circular AC No: 150-15320-6F.

R-4993 & R-4994 SUPERIOR DURABILITY AIRPORT & PORT APPLICATION FRAMES

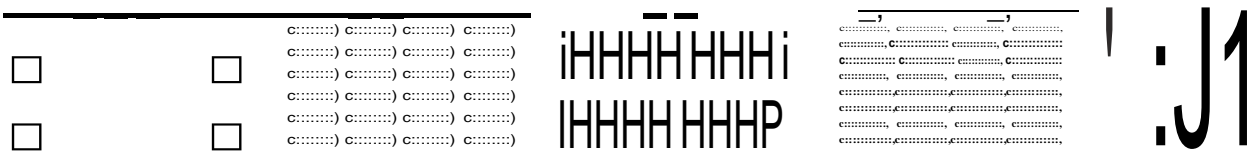
93

| TYPET | TYPES | TYPET | | | | TYPES | | | | |
|----------------|----------------|-------|---|----|------|-------|----|--------|--------|-------|
| CATALOG NO. | CATALOG NO. | A | B | C | E | C | E | TYPE A | TYPE C | TYPED |
| R- 4993 - AAB | R-4 99 4- AAB | 8 | 2 | 6 | 19 ¼ | 4 | 18 | X | | |
| R- 4993 - B AB | R-4 99 4-B AB | 10 | 2 | 8 | 21 ¼ | 6 | 20 | X | | |
| R- 4993 -CAB | R-4 99 4- CAB | 12 | 2 | 10 | 23 ¼ | 8 | 22 | X | | |
| R- 4993 - DAB | R-4 99 4- DAB | 14 | 2 | 12 | 25 ¼ | 10 | 24 | X | X | X |
| R- 4993 - EAB | R-4 99 4-E AB | 17 | 2 | 15 | 28 ¼ | 13 | 27 | X | | X |
| R- 4993 - FAB | R-4 99 4-F AB | 20 | 2 | 18 | 31 ¼ | 16 | 30 | X | | X |
| R- 4993 - HAB | R-4 99 4-H AB | 26 | 2 | 24 | 37 ¼ | 22 | 36 | X | | X |
| R- 4993 - KAB | R-4 99 4- KAB | 34 | 2 | 32 | 45 ¼ | 30 | 44 | X | | X |
| R- 4993 -O AB | R-4 99 4- OA B | 57 | 2 | 49 | 62 ¼ | 47 | 61 | X | | X |

R-4 99 4

a

Designers have the option to utilize either of these new frames in locations where it is deemed that traditional angle frames could break loose from concrete due to extraordinary conditions. A few examples of such conditions are braking forces of ultra-heavy vehicles; torsional forces due to turning aircraft and container port vehicles; heavy airfield and industrial applications; highway tunnels; certain highway applications .

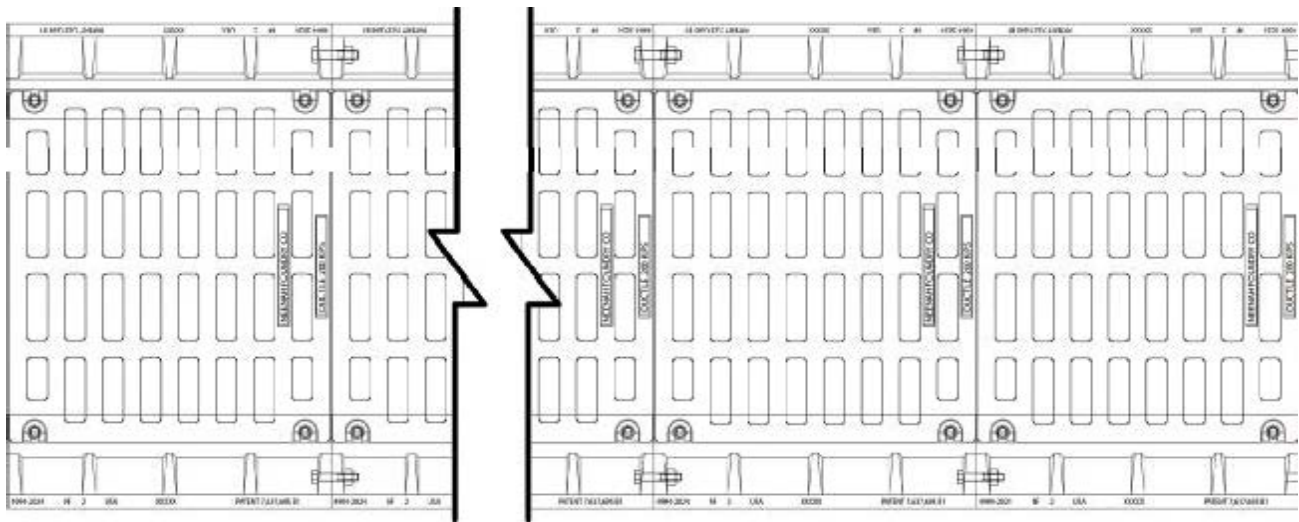
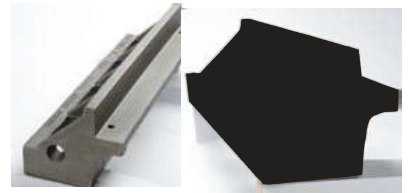
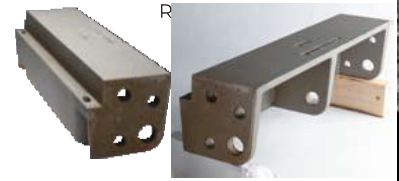


R-4993 & R-4994 SUPERIOR DURABILITY FRAMES FOR AIRPORT & PORT APPLICATION

TYPE A

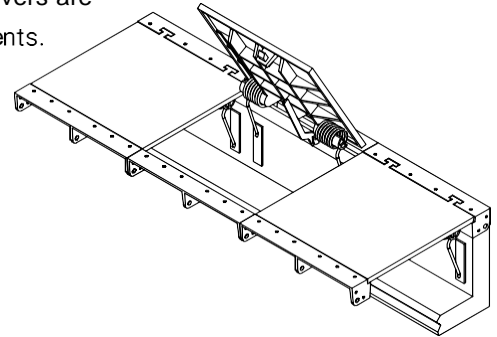
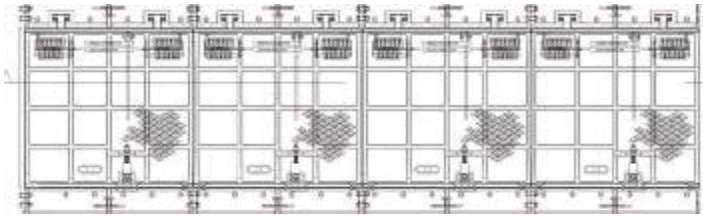
TYPED LID

10



R-4993 SPRING ASSIST TRENCH SERIES

Neenah's Spring Trench System is now being applied to our R-4993 Type T Frame trench series. With Neenah's Spring Assist system, a single maintenance worker can quickly open the lid, secure it in the upright position with Neenah's hold-open device and perform the necessary work. In addition, these trench covers are capable of supporting the heavy wheel loads of today's commercial environments.



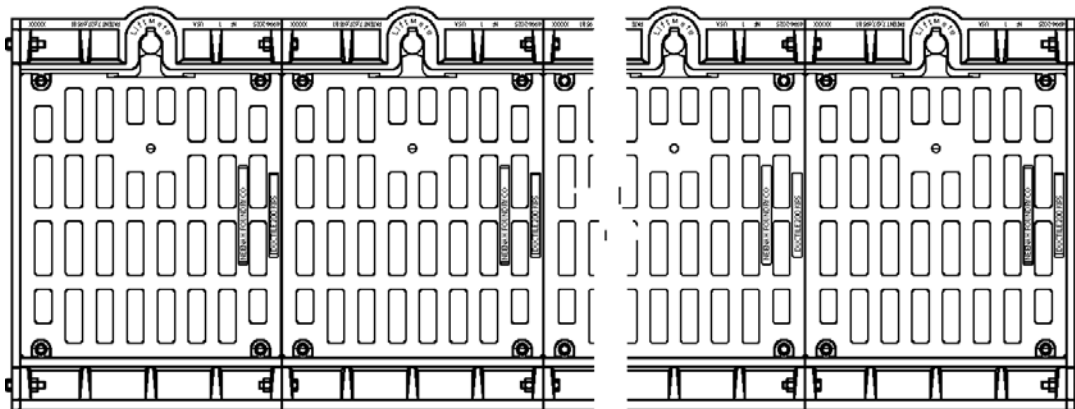
R-4994 LIFTMATE TRENCH

R-4994 LIFTMATE TRENCH SYSTEMS

| CATALOG NO. | A | B | C | FRAME LENGTH | GRATE LENGTH | GRATE MATERIAL | GRATE TYPE |
|-------------|-----|----|-----|--------------|--------------|----------------|------------|
| R-4994-FALM | 20" | 2" | 78" | 24" | 23 7/8" | Ductile Iron | A |
| R-4994-HALM | 26" | 2" | 24" | 24" | 23 7/8" | Ductile Iron | A, D |

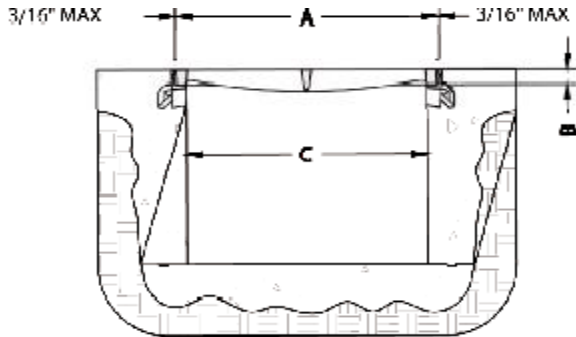
Neenah's new LiftMate Hinge System is now being applied to our R-4994 Type S Frame trench series. The LiftMate Hinge System has advanced municipal castings to a whole new level of function and safety. Our patented LiftMate Hinge System eases operation and access while virtually eliminating many traditional hazards of working with covers for manholes, grates and trenches.

The LiftMate Hinge System provides a controlled motion pivot that helps protect workers from excess strain or off-balance maneuvering. That helps prevent on-the-job accidents as well as reduces lost-time injuries.



FORMING PROCEDURES

R-4990 FRAME & GRATE/LID



Section view of completed trench installation
Figure 1

Unbolted Units

Materials

Under normal situations, use 3/4 inch plywood for forming walls. 2x4's are suitable for studs, plates, bracing and spreaders. A typical installation is shown in Figure 2. Details and suggestions are based on using the Neenah Foundry Type "B" Frame.

Forming Procedures

Pour the floor slab of the trench according to the plans and specifications. The width of the form, (see Figure 1) measured from the outside edges of the forms, corresponds to the "C" dimension on Figure 1. During the entire forming procedure, verify that the forms are plumb, straight, solid and level.

The height of the form corresponds to the final grade elevation when installing the non-bolted frames and grates/lids. Extend the spreaders beyond the edge of the forms (see figure 3 and 4) to provide a stop for the frame and seat form.

To attach the cast iron frame to the form, the use of a "seat form" is recommended to assure that the frame is at the proper elevation and true. The seat form has the same dimensions as the frame, with the height corresponding to the frame height (the "b" dimension), and the width the same as the seat width of the frame. The seat width should be field measured to assure a proper fit. All Neenah frames have a slight radius at the corner of the seat and vertical face so the seat form should be beveled to accommodate the radius. Most 2x4's have this radius.

Nail the seat form to the form shown in figure 2. Then nail the frame to the seat form using the holes in the frame. (figure 3)

Note: Frames should butt together snugly, leaving as little gap as possible.

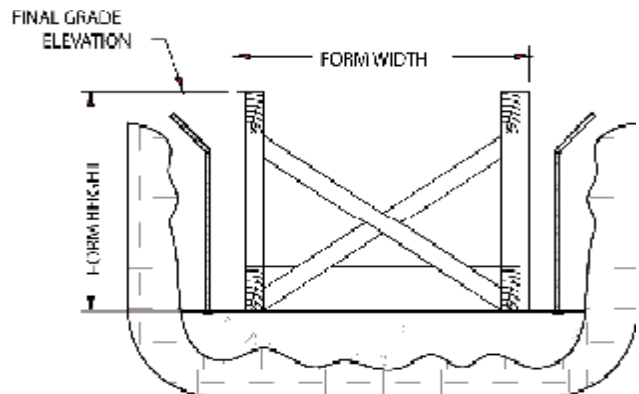
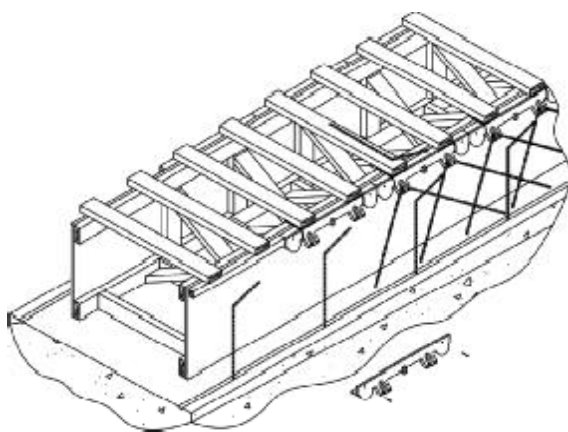


FIGURE 2



The rebar shown in the vertical walls of the trench is for illustrative purposes only. Proper sizing and placement is the responsibility of the engineering firm providing the project design.

Place a 90 degree bent #4 rebar through the holes in the anchor lugs to provide anchorage in the concrete. Verify the space between the edge of the grate and frame so grates will fit properly. This should be no greater than 3/16" (see figure 1).

Pour concrete and use the top edge of the frame as a screed point.

FORMING PROCEDURES

R-4999 FRAME & GRATE/LID

Bolted Units

Bolted frames and grates are furnished assembled and therefore require different forming procedures. At no time should the units be disassembled prior to or during installation! Do check that 3/16" maximum gap has not changed in transport

When installing the frame and grate units on the forms, keep the sections tight to one another to eliminate creep. When the sections are in the proper position, wire them to the bracing as shown in figure 5. Place a #4 rebar bent at 90A through the holes in the anchor lugs to provide proper anchorage in the concrete.

When the concrete has sufficiently cured, remove the grates, noting their position and orientation. The grates need to be put back in the exact way they came out. Debris chutes are

provided to allow debris to pass through the bolt holes in frame. Strip the forms. Replace the grates in the same location and with the same orientation as they came out. Bolts should be tightened to 15 foot-pounds. The completed installation should resemble figure 8.

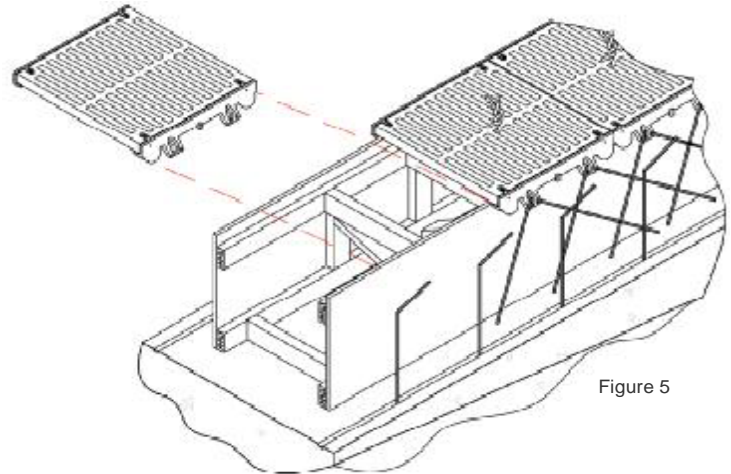


Figure 5

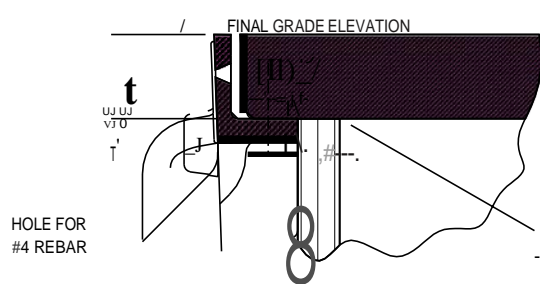


FIGURE 6

(The rebar shown in the vertical walls of the trench is for illustrative purposes only. Proper sizing and placement is the responsibility of the engineering firm providing the project design.)

Place a 90A bent #4 rebar through the holes in the anchor lugs to provide anchorage in the concrete. Verify the space between the edge of the grate and frame so grates will fit properly. This should be no greater than 3/16" (see figure 1).

Pour concrete and use the top edge of the frame as a screed point.

The bolted grate and frame should be at the finished elevation when the assembled unit is set on the forms.

General Comments

All frame sections are manufactured and furnished in standard lengths. It is the responsibility of the installer to cut frame pcs. to the proper length and miter corners where applicable. In cases where trench direction must change, special drawings will be furnished by our engineering services department. These prints will show special lengths and cuts of grates/lids, and other essential information.

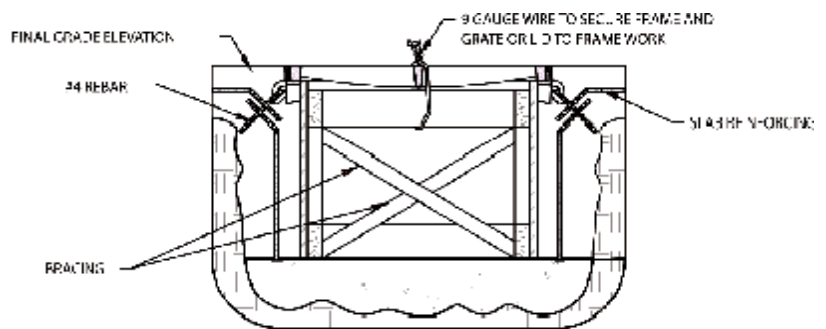


FIGURE 7

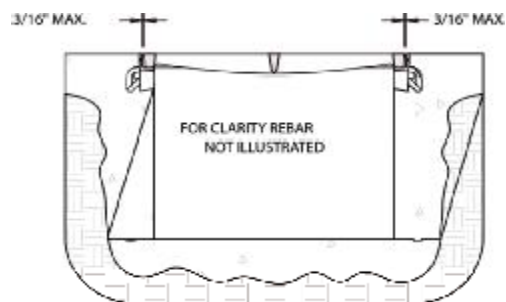


FIGURE 8

W
a
:
O
W
O
a
:
Z
a
O
W
O
W
O
:
a

FORMING PROCEDURES

R-4996 SERIES

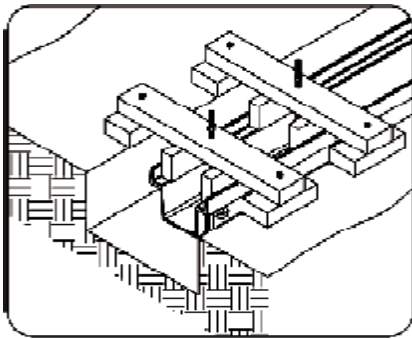
Step 1:

Excavate trench placement area to provide room for trench pan and concrete

Concrete depth and thickness determined by others

Step 2:

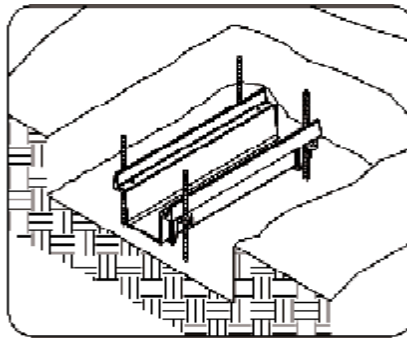
These methods are available for installation as detailed below



"A"

Threaded rod support

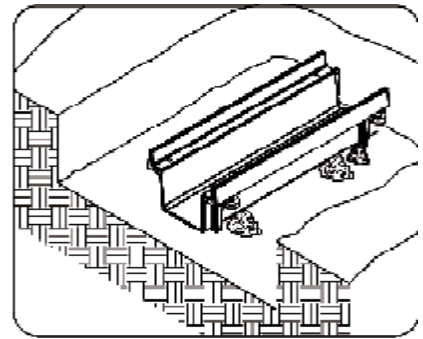
* For use with Type M & Self Forming



"B"

Rebar support

* For use with Type M *



"C"

Concrete Support

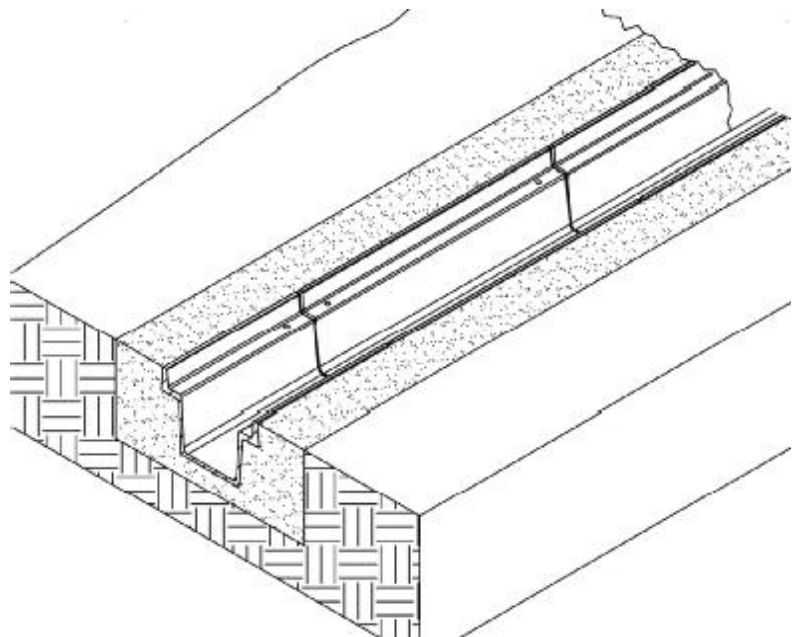
For use with all 4996 Series Trench

Step 3:

Pour concrete around and below trench pan. For methods A & B, two separate pours are recommended to allow the removal of supports or cutting of rebar below grade.

*4996 - A6 is a two piece frame, assembly is required prior to installation.

Note: For detailed installation instructions, please contact Neenah Foundry Company.

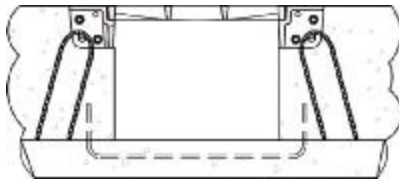


NEENAH
FOUNDRY
COMPANY

FORMING PROCEDURES

R-4993 IYPE T FRAME

IMPORTANT DO NOT DISASSEMBLE THE COVERS FROM THE FRAMES UNTIL FORMING IS COMPLETE.



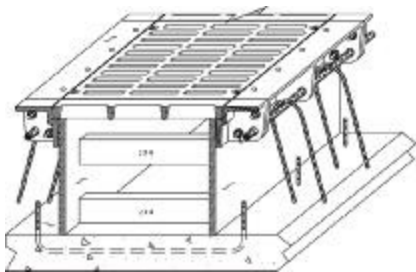
Instructions

1. First pour the bottom slab of the trench
2. Create forms for the inside walls of the

trench, the out to out of the forms matches the 'C' dimension provided in the catalog. When done correctly, the bolted frame and cover will neatly rest on the forms.

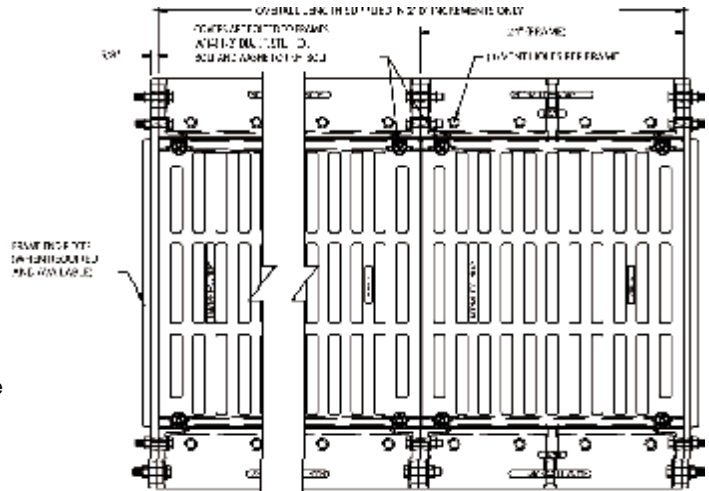
3. Add additional sections of trench by placing them on the forms with all sections butted together. There are 4 holes on the ends of the trench frame. The largest hole will accept as large as #8 rebar. The two matching diagonal holes will accept 1/2" dia. steel bolts. Add washers and nut, finger tighten.

4. The longitudinal #8 rebar must be used with additional rebar bends to anchor the frame into the concrete. It is not acceptable to use only the #8 rebar as this will be counter-productive. The remaining hole on the frame end will not require bolts but can be used as an alignment hole for the two butted frames when needed.



5. Pour concrete and vibrate assuring that concrete is completely under the frame and there are no voids.

6. After the concrete is set, the forms can be removed. The mated frames and covers need to be marked in matching sets so when they are removed to expose the formwork, they can be replaced in the exact location and orientation that they were originally in. Relocating the covers is unacceptable.



R-4994 IYPE S FRAME

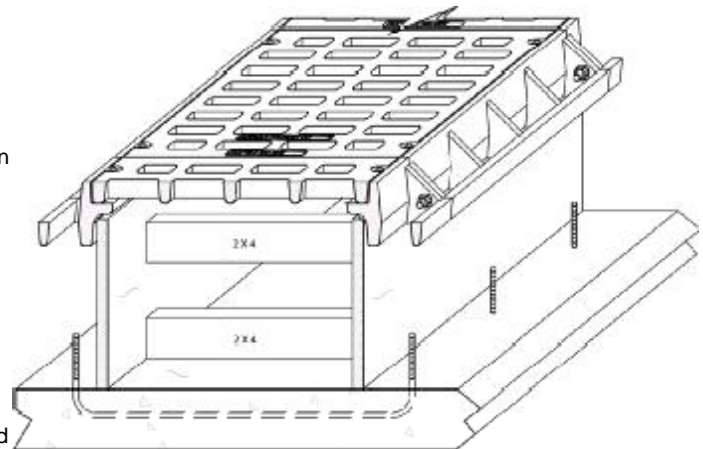
1. First pour the bottom slab of the trench

2. Create forms for the inside walls of the trench. The out to out of the forms matches the 'C' dimension provided in the catalog. When done correctly, the bolted frame and cover will neatly rest on the forms.

3. Add additional sections of trench by placing them on the forms with all sections butted together. There is 1 hole on the ends of the trench frame. This hole will accept 1/2" dia. Steel bolts. Add washers and nut, finger tighten.

4. Pour concrete and vibrate assuring that concrete is completely under the frame and there are no voids.

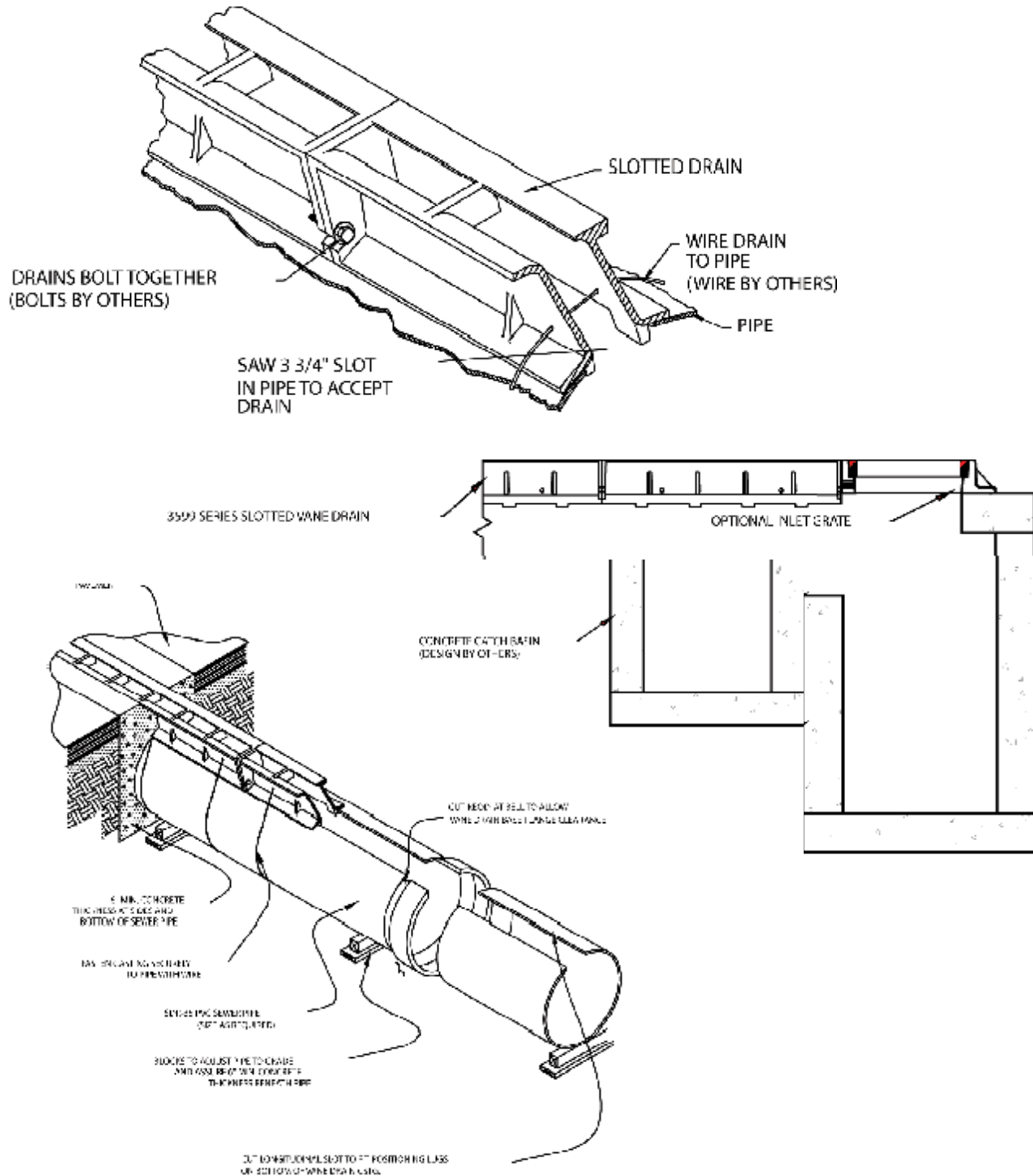
5. After the concrete is set, the forms can be removed, the mated frames and covers need to be marked in matching sets so when they are removed, to expose the formwork, they can be replaced in the exact location and orientation that they were originally in. Relocating or rotating the covers is unacceptable.



FORMING PROCEDURES

R-3599 A & R-3599-8 SLOTTED VANE DRAIN

1. Inlet Grate Shown is for reference purposes only. Inlet Grate is not required for installation.
2. Concrete Manhole structure is for reference purposes only. Actual design to be provided by owner.
3. Structural Calculations to be provided by owner.



R-3599 A & R-3599-8 SLOTTED VANE DRAIN

HEAW DUTY TRENCH GRATES

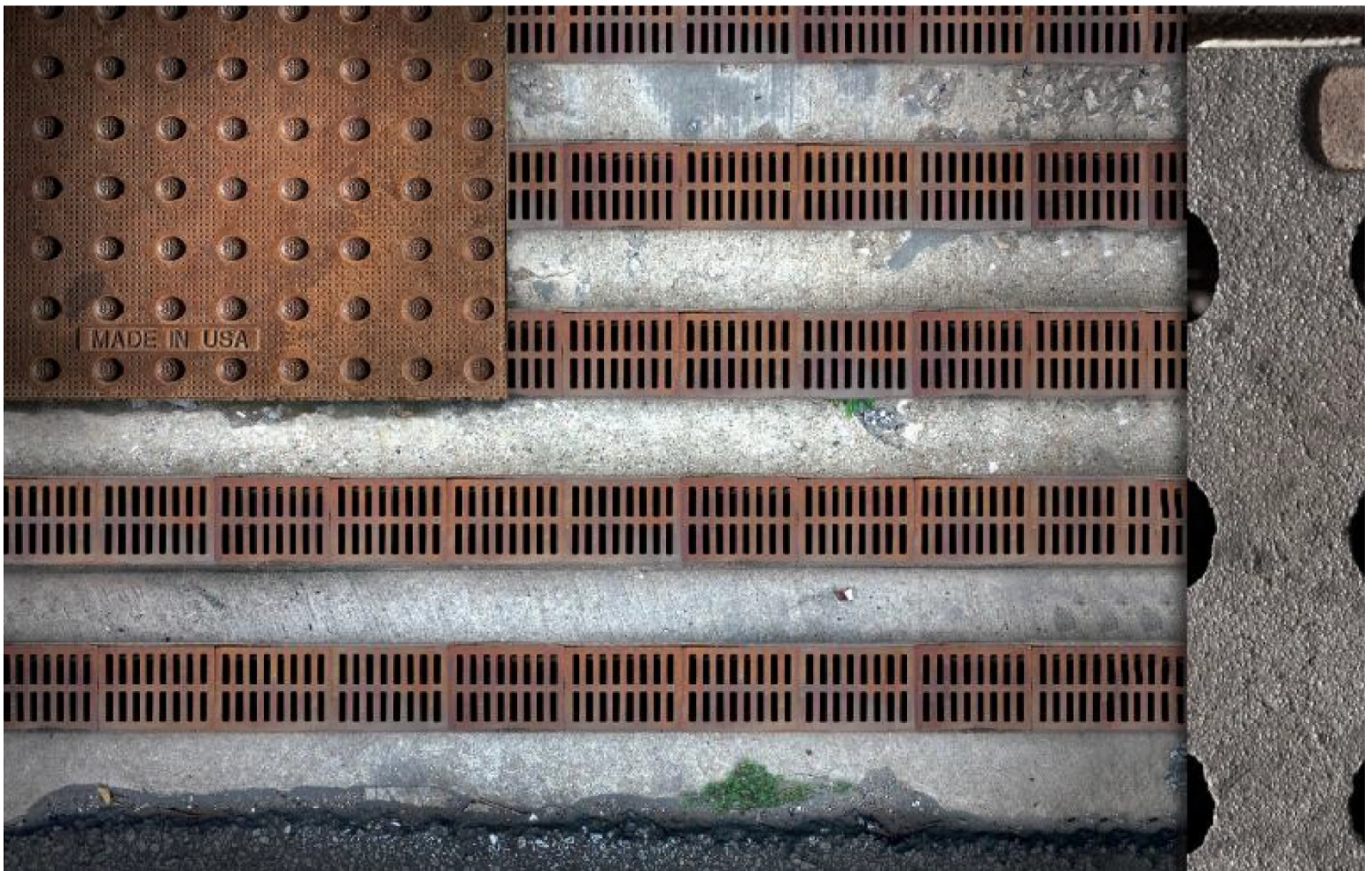
| | | | | | | | | | | | | | | |
|--------------------|-----|-----|---------|--------|-----|---|---|---|---|---|---|---|---|---|
| R-4996-A6 | 6" | 4" | 23 7/8" | 1 1/2" | 24" | M | X | | X | X | | X | X | X |
| R-4989 | 6" | 4" | | 1 1/2" | 24" | B | X | | X | X | | X | X | X |
| R-4990-AX | 8" | 6" | | 1 1/2" | 24" | B | X | X | X | | | X | | |
| R-4999 -AX-BOLTED | 8" | 6" | | 1 1/2" | 24" | B | X | X | X | | | X | | |
| R-4993-AB | 8" | 6" | | 1 1/2" | 24" | T | X | X | X | | | X | | |
| R-4994 -AB | 8" | 4" | | 1 1/2" | 24" | S | X | X | X | | | X | | |
| R-4996 -AB | 8" | 6" | | 1 1/2" | 24" | M | X | X | | | | | | |
| R-4996 -A | 8" | 6" | 29 7/8" | 1" | 30" | N | | | | X | | | | |
| R-499 0-BX | 10" | 8" | | 1 1/2" | 24" | B | X | X | X | | | X | | |
| R-4999 -BX -BOLTED | 10" | 8" | | 1 1/2" | 24" | B | X | X | X | | | X | | |
| R-4993-BB | 10" | 8" | | 1 1/2" | 24" | T | X | X | X | | | X | | |
| R-4994 -BB | 10" | 6" | | 1 1/2" | 24" | S | X | X | X | | | X | | |
| R-4996 -B | 70" | 8" | 29 7/8" | 1" | 30" | N | | | X | X | | | | |
| R-499 0 -CX | 12" | 10" | | 1/2" | 24" | B | X | X | X | X | | X | | |
| R-4999 -CX-BOLTED | 12" | 10" | | 1/2" | 24" | B | X | X | X | X | | X | | |
| R-4993 -CB | 12" | 10" | | 1/2" | 24" | T | X | X | X | X | | X | | |
| R-4994 -CB | 12" | 8" | | 1/2" | 24" | S | X | X | X | X | | X | | |
| R-4996 -A/2 | 12" | 10" | | 1/2" | 24" | M | X | X | X | X | | X | | |
| R-4996 -C | 12" | 10" | 18" | 1/2" | 36" | N | X | X | X | X | X | X | | |
| R-4999 -L2-BOLTED | 12" | 10" | | 1/2" | 24" | B | | | | | X | | | |
| R-499 0-DX | 14" | 12" | | 1/2" | 24" | B | X | X | X | X | | X | | |
| R-4999 -DX-BOLTED | 14" | 12" | | 1/2" | 24" | B | X | X | X | X | | X | | |
| R-4993-DB | 14" | 12" | | 1/2" | 24" | T | X | X | X | X | X | X | | |
| R-4994-DB | 14" | 10" | | 1/2" | 24" | S | X | X | X | X | X | X | | |
| R-4999-L3-BOLTED | 14" | 10" | | 1/2" | 24" | B | | | | | X | | | |
| R-499 0-EX | 17" | 15" | | 1 1/2" | 24" | B | X | X | X | | | X | | |
| R-4999-EX-BOLTED | 17" | 15" | | 1 1/2" | 24" | B | X | X | X | | | X | | |
| R-4993-EB | 17" | 15" | | 1/2" | 24" | T | X | X | X | | | X | | |
| R-4994 -EB | 17" | 13" | | | 24" | S | X | X | X | | | X | | |
| R-499 0-FX | 20" | 18" | | 1 1/2" | 24" | B | X | X | X | | | X | X | |
| R-4999-FX-BOLTED | 20" | 18" | | 1/2" | 24" | B | X | X | X | | | X | X | |
| R-4993 -FB | 20" | 18" | | 1/2" | 24" | T | X | X | X | | | X | X | |
| R-4994 -FB | 20" | 16" | | 1 1/2" | 24" | S | X | X | X | | | X | X | |
| R-499 0-GX | 23" | 21" | 23 3/4" | 1 1/2" | 24" | B | X | X | | | | X | | |

V)
W

O
::,
(J
W
U
Z
W

a
W
L.
W
a

| | | | |
|---------|--------|-----|-----|
| | 1 1/2" | 36" | 24" |
| | 2" | " | T |
| | 2" | N | X |
| 23 h " | 2" | X | X |
| | 2" | 24" | 24" |
| | 2" | B | B |
| 23 7/8" | 2" | X | X |
| | 2" | X | X |
| 23 7/8" | 2" | X | 24" |
| | 2" | 24" | T |
| 23 7/8" | 2" | T | X |
| | 2" | X | X |
| 23 7/8" | 2" | X | 24" |
| 23 7/8" | 2" | X | X |
| 23 7/8" | 2" | 24" | 24" |
| | 2" | X | B |
| | 2" | X | X |
| | 2" | X | X |
| 23 7/8" | 2" | 24" | 24" |
| | 2" | B | |
| | | X | T |
| | | X | |
| | | 24" | |
| | | T | X |
| | | X | |
| | | X | |
| | | 24" | X |
| | | X | |
| | | X | |
| | | 24" | |
| | | X | |
| | | X | |
| | | 24" | |
| | | T | |
| | | X | |
| | | 24" | |
| | | B | |
| | | X | |
| | | X | |
| | | 24" | |
| | | T | |
| | | X | |
| | | 24" | |
| | | B | |
| | | X | |
| | | X | |
| | | 24" | |
| | | T | |
| | | X | |
| | | X | |
| | | 24" | |
| | | X | |
| | | X | |



Z
u
a:
LU

CO



The American Recovery and Reinvestment Act (ARRA) of 2009 was enacted to stimulate the economy by incentivizing the use of American-made products. By choosing Neenah cast iron products not only are you getting the quality and durability you need while supporting American jobs, you could also qualify for federal funding on your project.

Z
u
a:
LU
CO



In support of the Green Initiative, Neenah Foundry is pleased to report that our products contain a minimum of 85% recycled content in the form of a minimum of 35% consumer-generated scrap metal and minimum of 50% industrial-generated scrap metal.

Neenah Foundry Company
Box 729, Neenah, Wisconsin 54957-0729

Phone: 800-558-5075 // 920-725-7000
Fax: 920-729-3661
Web: www.neenahfoundry.com

NEENAH
FOUNDRY

Since 1872

These products are to be specified and used under the guidance of qualified design professionals.