



CITY OF KIRKLAND INVITATION FOR BID

Information for Bidders:

Notice is hereby given that the City of Kirkland will receive sealed bids in the office of the Purchasing Agent, City Hall, 123 Fifth Avenue, Kirkland, Washington, by 2:00:00 pm local time on May 9, 2018 for the project hereinafter referred to as:

Project Name: Kirkland Public Works Catch Basin and Manhole Iron Invitation for Bid #15-18-PW

Bid Due: May 9, 2018 by 2:00:00 pm PST. At said time all bids will be opened and publicly read aloud. The City of Kirkland –Purchasing Division must receive bids no later than specified time and date. Bids received after such time will be returned unopened. Responses may be mailed or hand delivered. Bids sent via email will not be accepted. Bids are to be valid for 90 days after due date. The City reserves the right to request further extensions if necessary.

The City will not sell bid packages. Bid documents and addenda may be viewed and obtained online on the City of Kirkland's website at www.kirklandwa.gov. Locate by clicking on "Business" at the top of the webpage and then "Request for Proposals" under "Doing Business with the City." Call 425-587-3123 if unable to access IFB documents online.

Selection and Award: This purchase shall be awarded to the bidder who provides the lowest responsible priced bid and in conformance with program schedule that in the opinion of the City meets all of the specification criteria.

The City of Kirkland reserves the right to reject any and all bids/bids and to waive any irregularities or information in the evaluation process. The final decision is the sole decision of the City of Kirkland and the respondents to this solicitation have no appeal rights or procedures guaranteed to them. The City of Kirkland reserves the right to conduct any necessary interviews for clarification purposes before final award.

Bidders must bid on all items contained in the solicitation. The omission or deletion of any bid item will be considered non-responsive and may be cause for rejection of the bid.

Submit your bid on the Bid Price Sheet and other forms which are enclosed, or make a copy of the required forms and submit these documents.

No bids may be withdrawn within forty-five (45) days after the actual date of the bid opening.

Greg Piland
Purchasing Agent

Published: Daily Journal of Commerce – April 17, 2018

OVERVIEW AND PURPOSE: The City of Kirkland Public Works Department is soliciting bids to establish one or more contracts with qualified vendors to furnish catch basin and manhole iron for on-going operation and maintenance of the Storm Water and Wastewater conveyance systems, on an as-needed basis throughout the contract term.

The Technical Specifications, included at Attachment A, were developed from specifications of the current East Jordan iron products currently used by the department. Manufacturers and sales distributors of other catch basin and manhole iron are welcome to submit bids for equivalent model material. Proposed materials should comply with the requirements identified in these Specifications. It is the Respondent's responsibility to identify and explain any deviations from these Specifications.

CONTRACT TERM AND PRICE CONDITIONS: The initial contract shall be for a term of two years, and shall include a renewal option of two additional one-year periods. Pricing shall be firm and fixed for the term of the initial contract. Price adjustments for the additional one-year renewal periods can be agreed upon and made prior to executing renewal agreements. Any proposed price increases shall be in accordance with the Federal Consumer Price Index, Seattle, Tacoma, Bellevue;
https://www.bls.gov/regions/west/wa_seattle_msa.htm

PLANNED PURCHASES: The City typically orders iron products on an as-needed basis. From January 2017 through December 2017, the City's purchases for iron products totaled 205 pieces. **It is anticipated that other public agencies may wish to utilize this contract as allowed by RCW 39.34.**

TENTATIVE SCHEDULE OF EVENTS:

IFB issued April 17, 2018

Questions due April 23, 2018 at 4:00 pm PST

Answers Issued April 27, 2018

Bids due May 9, 2018 at 2:00:00 pm PST

Anticipated Award May 31, 2018

QUESTIONS REGARDING THIS IFB: ALL questions must be submitted in writing (Email is preferred). Questions and answers will be forwarded to all proposing suppliers who provide contact information. In order to make information available to all proposing suppliers, no questions will be entertained after 4:00 pm on April 23, 2018.

Questions regarding the specifications must be addressed to Jason Osborn at josborn@kirklandwa.gov.

Questions regarding the bidding process must be submitted to Greg Piland, Purchasing Agent at gpiland@kirklandwa.gov.

Questions may be mailed to either party at City of Kirkland, 123 5th Ave, Kirkland, WA 98033.

DISTRIBUTION OF BID DOCUMENT AND ADDENDA: This IFB can be downloaded directly from the City of Kirkland's website at www.kirklandwa.gov (Click on "City Purchasing" under "Most Requested".) Those who wish to automatically receive any addenda or a notice of cancellation should provide contact information by emailing Greg Piland, Purchasing Agent, at gpiland@kirklandwa.gov. Those who choose not to submit contact information will be solely responsible for monitoring the City's website for any addenda or a notice of cancellation.

BID PREPARATION: Firms submitting bids shall be responsible for any and all costs and/or expenses associated with preparing such proposal.

SUBMISSION OF BID PROPOSALS: All bid proposals must be received no later than **2:00:00 pm Pacific Time on May 9, 2018**. Bids must be signed by an authorized company representative and submitted in a sealed envelope. Bids must be addressed to:

**City of Kirkland
Attn: Greg Piland, Purchasing Agent
IFB No. 15-18-PW
123 5th Ave
Kirkland, WA 98033**

It is the responsibility of the supplier to be sure the proposals are sent sufficiently ahead of time to be received **no later than 3:00 pm on May 9, 2018**. Proposals received after the deadline will not be considered for award of contract.

EVALUATION PROCESS: This is an Invitation for Bids for specific items and our intent is to award the contract to the responsible supplier that submits the lowest responsive bid.

CONTRACT: The contract shall consist of the following documents: The Invitation for Bids (IFB), the accepted bid, any purchase orders issued by the City and any agreed upon written changes to any of the foregoing documents. The contract documents are complimentary and what is called for in any one document shall be binding as if called for by all.

COMPLIANCE WITH LAWS: The supplier shall comply with all applicable federal, state and local laws, rules, and regulations, affecting its performance and hold the Purchaser harmless against any claims arising from the violation thereof.

GENERAL BID INFORMATION: Submission of the proposal will signify the firm's agreement that its proposal and the content thereof are valid for 180 days following the submission

deadline and will become part of the contract that is negotiated between the City and the successful firm.

COOPERATIVE PURCHASING: RCW 39.34 allows cooperative purchasing between public agencies (political subdivisions) in the State of Washington. Public agencies which have filed an Intergovernmental Cooperative Purchasing Agreement with the City of Kirkland may purchase from City of Kirkland contracts, provided that the firm agrees to participate. The City of Kirkland does not accept any responsibility for purchase orders issued by other public agencies.

PUBLIC DISCLOSURE: Once submitted to the City, proposals shall become the property of the City, and all proposals shall be deemed public records as defined in Chapter 42.56 RCW, Washington's Public Records Act ("PRA"). Any proposal containing language which purports to copyright the proposal, declares the entire proposal to be confidential, declares that the document is the exclusive property of the proposer, or is any way contrary to the PRA or this proposal, could be removed from consideration. The City does not accept responsibility for determining what the proposer may consider confidential or proprietary. Therefore, any information in the proposal that the proposer claims confidential and/or proprietary or otherwise exempt from disclosure under RCW 42.56.270 or any other provision of the PRA must be clearly designated as described in the "Proprietary Material Submitted" section above. It must also include the exemption(s) from disclosure upon which the proposer is making the claim, and the pages and portions thereof must be clearly marked and identified. With the exception of lists of prospective proposers, and except to the extent otherwise required by law, the City will not disclose proposals until a bid selection is made. At that time, all information about the competitive procurement will be available with the exception of: portions of a proposal specifically designated as confidential and/or proprietary and therefore exempt from disclosure under the PRA until such time as the proposer has a reasonable opportunity to seek a court order preventing such disclosure.

NONCOLLUSION: The supplier must certify that their firm has not entered into any agreement of any nature whatsoever to fix, maintain, increase or reduce the prices or competition regarding the items covered in this Invitation for Bids. Supplier is to complete the attached Non-collusion affidavit and submit it with the proposal.

PAYMENT TERMS: Net 45 days after delivery, acceptance and receipt of invoice. Acceptance includes inspection and approval by City of Kirkland's Public Works Department.

FREIGHT TERMS: Quoted price is to include delivery to designated locations. Shipping will be FOB destination and include delivery.

NON-DISCRIMINATION: The City of Kirkland requires that no person shall, on the grounds of race, religion, color, national origin, sex, age, marital status, political affiliation, sexual orientation, or the presence of any sensory, mental or physical disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The City of Kirkland further assures that every effort will be made to ensure non-discrimination in all of its programs and activities, whether those programs are federally funded or not.

In addition to nondiscrimination compliance requirements, the firm ultimately awarded a contract shall comply with federal, state and local laws, statutes and ordinances relative to the execution of the work. This requirement includes, but is not limited to, protection of public and employee safety and health; environmental protection; waste reduction and recycling; the protection of natural resources; permits; fees; taxes; and similar subjects.

TECHNICAL SPECIFICATIONS
Kirkland Public Works Catch Basin and Manhole Iron

SCOPE

The scope of this is IFB is to obtain pre-determined cost for 4 different catch basin and manhole castings with multiple grates and covers for use in the Surface Water and Wastewater conveyance systems.

- **Country of origin shall be USA**

_____Comply _____Exception

- **Must meet ASTM A536**

_____Comply _____Exception

BID ITEMS

1. **20" x 24" Catch Basin Frame and Grate. Shall be 4.5" tall, 25.25" wide and 29.25" long. The lid opening shall recess down into frame 1.625" deep. The bolts shall be stainless with a 1/2" Allen head and the casting shall have replaceable 5/8" x 11 nuts in the corners one opposite the other. Grates shall be available in either vaned or bi-vaned and included in the purchase price. Open area of the lid shall be no less than 216 square inches. Must be a raw casting, no dipped coating. Lid must state "OUTFALL TO STREAM DUMP NO POLLUTANTS". Frame and Lid must meet up in a manner that requires no grinding or modification to seat flat and level. Refer to City of Kirkland Pre-Approved Plan CK-D.14. Frames shall be manufactured with Grey Iron, and the Lids will be manufactured from Ductile Iron.**

_____Comply _____Exception

2. **Through-Curb Inlet Frame and Grate with Vertical Curb Installation. Shall be designed to accept 18" x 24" vaned and bi-vaned grate that measures 17.75" long and 23.75" wide, and 1.5" tall. Grates shall be included in the purchase price. Openings in the lid shall be 2.875" wide. The hood shall be a separate part that mounts to two slotted holes using 7/8" bolts and 1" holes. The hood shall be 27.5" long and 9" overall height. Cast into the top of the lid it shall read "OUTFALL TO STREAM DUMP NO POLLUTANTS". In the center there shall be a fish logo cast into the hood. The thickness of the hood shall be 0.75" or greater. There shall be no cross bar in the curb face opening. The height of the frame shall be 5" on the street side and 4" in the gutter line. Overall frame dimensions shall be 30" long and 28" wide. Frame and Lid must meet up in a manner that requires no grinding or modification to seat flat and level. Refer to City of Kirkland Pre-Approved Plan CK-D.16. Frames shall be manufactured with Grey Iron, and the Lids will be manufactured from Ductile Iron.**

_____Comply _____Exception

- 3. 24" Manhole Frame with Locking Cover and Logo. Must have City of Kirkland logo cast into the cover. Cover must be fastened with 3 5/8"x 1.5" long stainless Allen head bolts equally spaced around the perimeter. Cover thickness at the mating flange shall be no less than 1". There shall be a 1" pick hole in the cover for opening. The frame shall include 3 equally spaced 1" holes in the flange of the frame for securing to the structure below at a diameter of 30.25". Frames should be able to stack for shipping and storing reasons. This frame and cover will be used in both the Surface Water system and the Wastewater system. If used for the Surface Water system, the cover shall say "STORM DRAIN" on it, along with "PROTECT YOUR ENVIRONMENT DUMP NO WASTE". The cover used for the Wastewater system must say "WASTEWATER" starting at 9 o'clock and going to 3 o'clock in both an upward curve and downward curve. Frame and cover must meet up in a manner that requires no grinding or modification to seat flat and level. Refer to City of Kirkland Pre-Approved Plan CK-D.18 and CK-S.16. Frames shall be manufactured with Grey Iron, and the Lids will be manufactured from Grey Iron.**

_____Comply _____Exception

- 4. Modified Manhole Frame with Hinged Cover. Shall have a locking mechanism consisting of a 1/4 turn camlock made of all stainless steel, as part of the 26" lid. This frame and cover will be used in both the Surface Water system and the Wastewater system. If used for the Surface Water system, the cover shall say "STORM DRAIN" on it, along with "PROTECT YOUR ENVIRONMENT DUMP NO WASTE". The cover used for the Wastewater system shall say "WASTEWATER" starting at 9 o'clock and going to 3 o'clock in both an upward curve and downward curve. The lid shall have a neoprene gasket that has been installed during assembly. The lid shall lock in the 90 degree open position and be able to be removed at the 120 degree position. Refer to City of Kirkland Pre-Approved Plan CK-D.18A and CK-S.16A. Must contain a minimum of 85% recycled content. Must have 5 centering tabs to align cover when closing. Frames shall be manufactured with Grey Iron, and the Lids will be manufactured from Ductile Iron.**

_____Comply _____Exception

*** PRICE PROPOSAL FORM ***
IFB NUMBER 15-18-PW
Kirkland Public Works Catch Basin and Manhole Iron
INVITATION FOR BIDS

Bidding Company Name: _____

Bidder shall submit one original sealed bid. If Bidder wishes to submit alternate bids, copy the appropriate bid pages and submit alternate bids.

We agree to furnish the following items F.O.B. Destination, freight prepaid and allowed (Included in unit price).

Item No.	Description	Estimated Quantity	Lead time (In days)	Unit	Unit Price	Extended Price
1.	20" x 24" Catch Basin Frame and Grate	As needed		EA	\$ _____	\$ _____
2.	Through Curb Inlet Frame and Grate with Vertical Curb Installation	As needed		EA	\$ _____	\$ _____
3.	24" Manhole Frame with Locking Cover and Logo	As needed		EA	\$ _____	\$ _____
4.	Modified 24" Manhole Frame with Hinged Cover	As needed		EA	\$ _____	\$ _____
					Total	\$ _____

Note: The unit price and extended price are to be shown in the spaces provided. Extended price shall be determined by multiplying the unit price by the quantity.

Prompt Payment Discount _____ % _____ days, net 30.

Payment discount periods of 20 calendar days or more will be considered in determining lowest responsible bid.

If a volume discount is offered, provided the order quantities at which the price break will be given and the corresponding percentage:

Quantity _____	Discount _____ %
Quantity _____	Discount _____ %
Quantity _____	Discount _____ %

Receipt of Addenda No(s). _____ is hereby acknowledged.

Company name

Location or Place Executed: (City, State)

Signature of Authorized Representative

Name and title of person signing

Date

Contractor's Address:

Telephone Number

Fax Number

Email

CITY OF KIRKLAND
NONCOLLUSION AFFIDAVIT
Kirkland Public Works Catch Basin and Manhole Iron
IFB NO. 15-18-PW

STATE OF WASHINGTON)
) SS
COUNTY OF KING)

The undersigned, being duly sworn, on oath deposes and says that the person(s), firm, association, partnership or corporation herein named has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this proposal is submitted.

Firm Name

Authorized Signature

Type Name

Title

Sworn to before me, this _____ day of _____, 20__.

Notary Public in and for the State of Washington
Residing at _____
My Commission Expires _____

NOTICE TO ALL BIDDERS

To report bid rigging activities call: 1-800-424-9071

The U.S. Department of Transportation (USDOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., ET. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of USDOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the USDOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.



Letter of Agreement

Kirkland Public Works Catch Basin and Manhole Iron – IFB #15-18-PW

This Letter of Agreement ("Agreement") is entered into by and between the City of Kirkland, a municipal corporation, herein called the "City," and **Vendor**, hereinafter the "Supplier".

WHEREAS, the City solicited bids for Public Works Catch Basin and Manhole Iron on April 16, 2018; and

WHEREAS, the Supplier submitted the low responsive bid on May 9, 2018; and

WHEREAS, the Supplier is qualified, willing, and able to provide all items required by the City's Invitation for Bids; and

WHEREAS, the City Council awarded the contract to the Supplier at their meeting of _____, 2018;

NOW, THEREFORE, in accordance with the City's Invitation for Bids and the Suppliers Bid Proposal the following terms and conditions are agreed to:

CONTRACT: The contract consists of the following documents: This Agreement, the Invitation for Bids (IFB), the accepted bid, any purchase orders issued by the City and any agreed upon written changes to any of the foregoing documents. The contract documents are complimentary and what is called for in any one document shall be binding as if called for by all.

CONTRACT TERM AND PRICE CONDITIONS: The initial contract shall be for a term of two years, commencing on the date this Agreement is fully executed, and shall include a renewal option of two additional one-year periods, at the discretion of the City. Pricing provided in the bid proposal shall be firm and fixed for the term of the initial contract. Price adjustments for the additional one-year renewal periods can be agreed upon and made prior to executing renewal agreements.

COOPERATIVE PURCHASING: RCW 39.34 allows cooperative purchasing between public agencies in the State of Washington. Public agencies which have filed an Intergovernmental Cooperative Purchasing Agreement with the City of Kirkland may purchase from City of Kirkland contracts. The City of Kirkland does not accept any responsibility for purchase orders issued by other public agencies.

COMPLIANCE WITH LAWS: The Supplier shall comply with all applicable federal, state and local laws, rules, and regulations, affecting its performance and hold the Purchaser harmless against any claims arising from the violation thereof.

NONCOLLUSION: The Supplier has certified that their firm has not entered into any agreement of any nature whatsoever to fix, maintain, increase or reduce the prices or competition regarding the items covered in this Invitation for Bids.

PAYMENT TERMS: Net 45 days after delivery, acceptance and receipt of invoice. Acceptance includes inspection and approval by City Fire Department staff.

FREIGHT TERMS: Quoted price is to include delivery to designated locations. Shipping will be FOB destination and include delivery and installation.

NON-DISCRIMINATION: The City of Kirkland requires that no person shall, on the grounds of race, religion, color, national origin, sex, age, marital status, political affiliation, sexual orientation, or the presence of any sensory, mental or physical disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity. The City of Kirkland further assures that every effort will be made to ensure non-discrimination in all of its programs and activities, whether those programs are federally funded or not.

In addition to nondiscrimination compliance requirements, the firm ultimately awarded a contract shall comply with federal, state and local laws, statutes and ordinances relative to the execution of the work. This requirement includes, but is not limited to, protection of public and employee safety and health; environmental protection; waste reduction and recycling; the protection of natural resources; permits; fees; taxes; and similar subjects.

IN WITNESS WHEREOF, the parties hereto have executed this Letter of Agreement on the dates written below:

SUPPLIER:

CITY OF KIRKLAND:

By: _____

By: _____

Name: _____

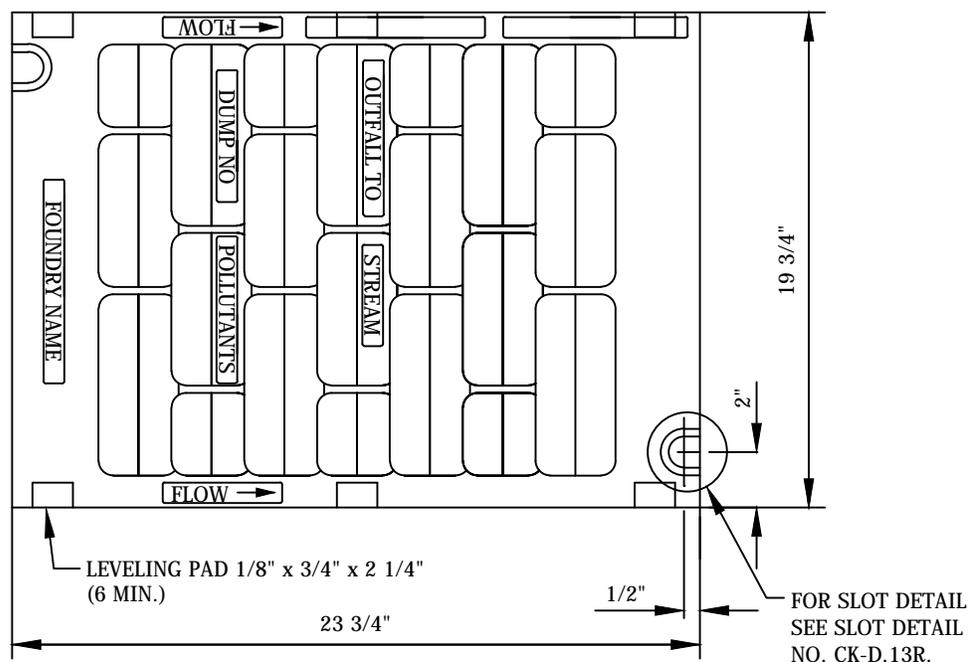
Tracey Dunlap, Deputy City Manager

Title: _____

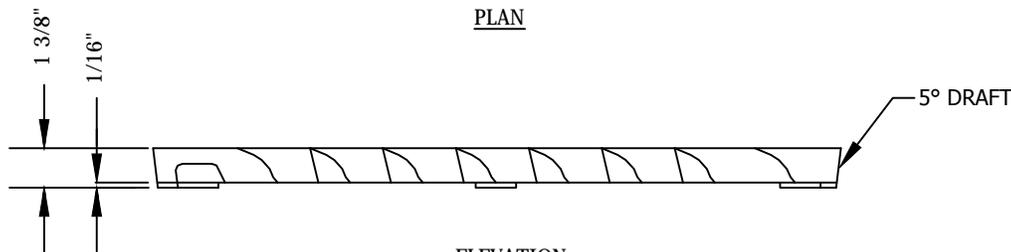
Date: _____

Date: _____

LAST REVISED: 1/2018



PLAN

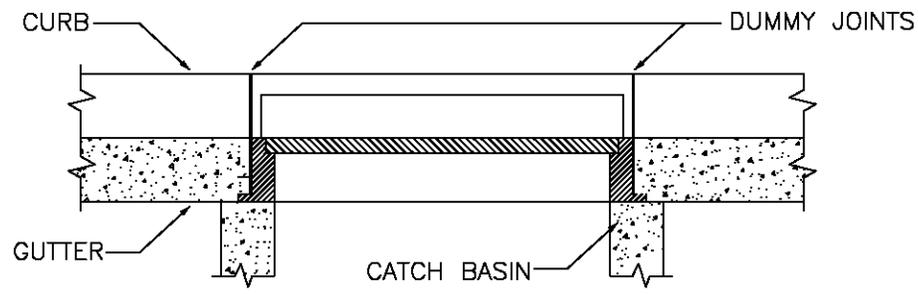
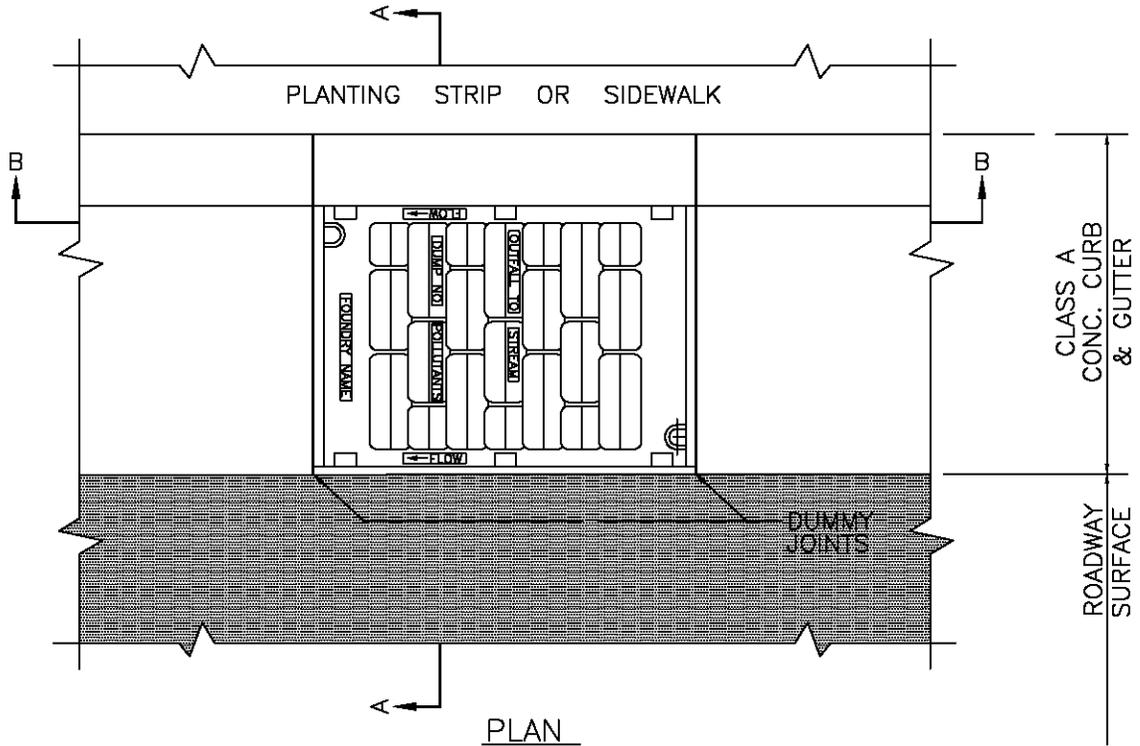


ELEVATION

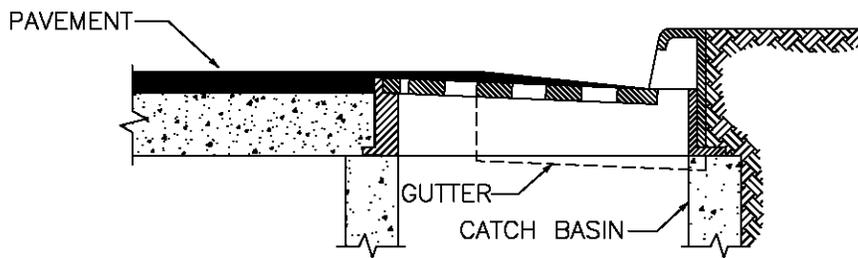
NOTES:

1. USE EAST JORDAN IRON WORKS OR EQUAL TWO BOLT LOCK CAPABILITY THAT MEETS WSDOT SPEC. MANUFACTURER SUBJECT TO APPROVAL BY CITY.
2. USE WITH TWO LOCKING BOLTS 5/8"-11 NC STAINLESS TYPE 304 STEEL SOCKET HEAD (ALLEN HEAD) BOLTS, 2" LONG. NOTE SLOT DETAIL.
3. MATERIAL IS DUCTILE IRON ASTM A536 GRADE 80-55-06.
4. "OUTFALL TO STREAM DUMP NO POLLUTANTS" MAY BE LOCATED ON BORDER AREA.
5. SHALL CONFORM TO SEC. 7.05 OF THE STANDARD SPECIFICATIONS.
6. WELDING IS NOT PERMITTED.
7. EDGES SHALL HAVE 0.125" RADIUS, 0.125" CHAMBER OR COMPLETE DEBURRING.
8. USE A BI-DIRECTIONAL VANED GRATE AT ANY LOW POINT OR WHEN FLOWS COME FROM MULTIPLE DIRECTIONS.
9. NO EXPANSION MATERIAL IN THE FLOW LINE, WHERE CONCRETE COMES TO FRAME.
10. FRAME AND COVER SHALL BE H-20 LOADING RATED IF INSTALLED IN ROADWAY.

CITY OF KIRKLAND	
PLAN NO. CK- D.14	
	VANED GRATE FOR CATCH BASIN AND INLET



SECTION B-B



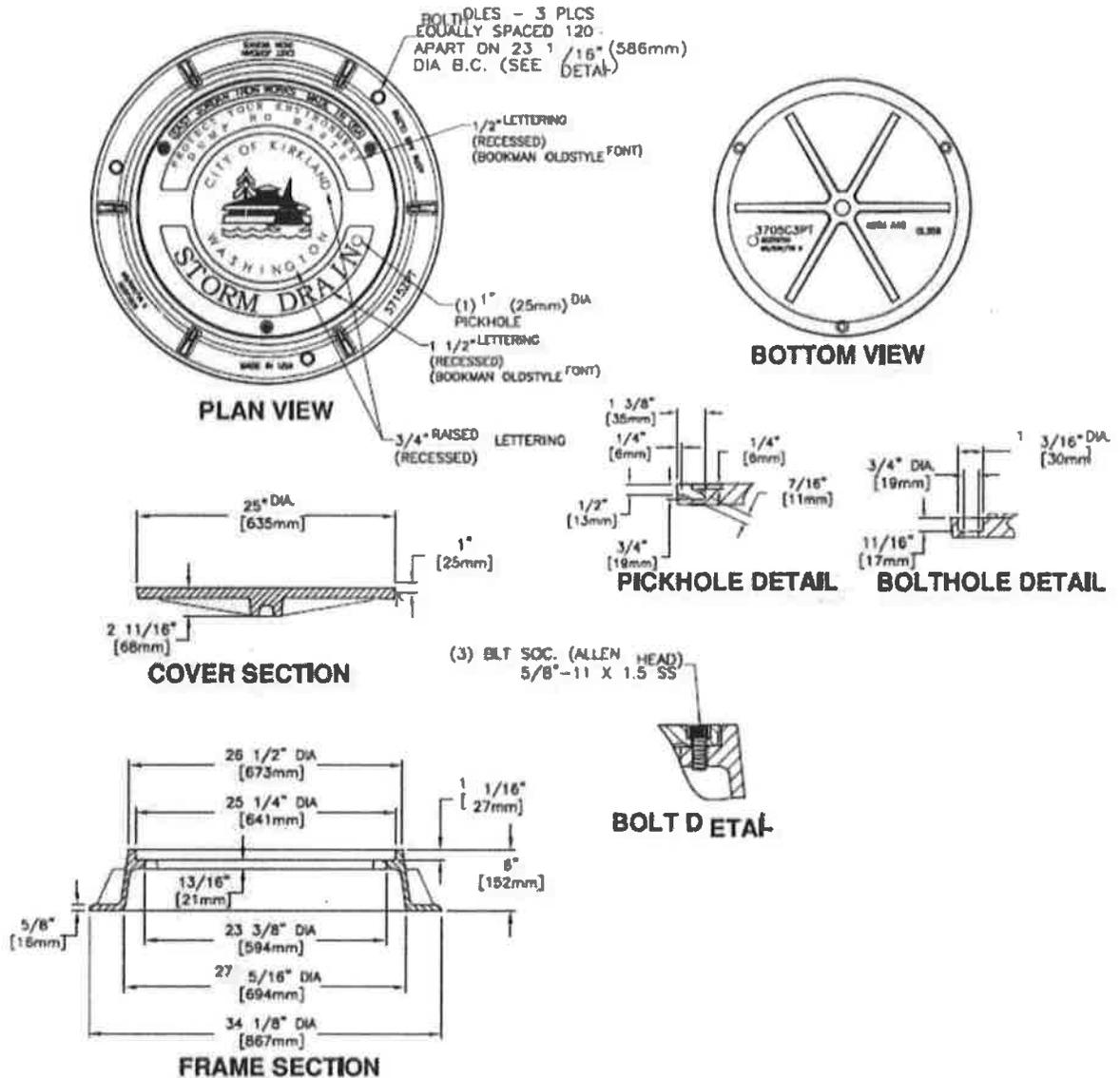
SECTION A-A

NOTES:

1. FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS OR EQUAL, SUBJECT TO APPROVAL BY CITY.
2. PATTERN ON TOP SHALL SPECIFY FISH LOGO AND DUMP NO POLLUTANTS (NO DIAMOND PATTERN).
3. SET TO GRADE AND CONSTRUCT ROAD AND GUTTER TO BE FLUSH WITH FRAME.
4. HOOD SHALL MATCH TOP OF CURB ELEVATION.
5. NO HORIZONTAL CROSS BAR IN THE OPENING.

CITY OF KIRKLAND	
PLAN NO. CK- D.16	
	THROUGH-CURB INLET FRAME AND GRATE WITH VERTICAL CURB INSTALLATION

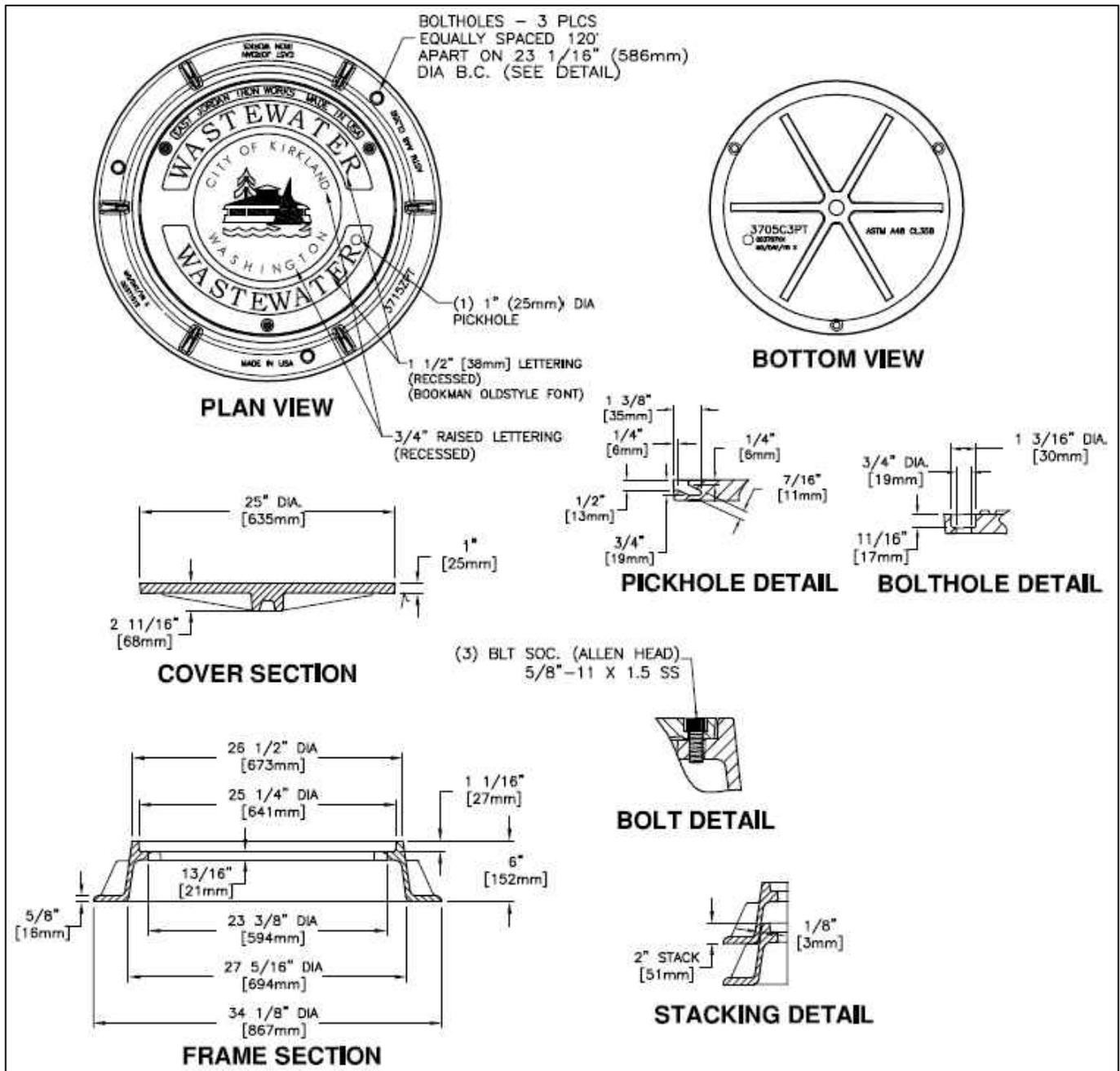
LAST REVISED: 1/2018



NOTES:

1. COVERS SHALL BE GRAY IRON, LOCKING, WITH A MINIMUM WEIGHT OF 141 LBS.
2. MINIMUM WEIGHT OF FRAME SHALL BE 134 LBS.
3. PRODUCT SUPPLIED BY EAST JORDAN IRON WORKS, OR APPROVED EQUAL.
4. CITY OF KIRKLAND LOGO REQUIRED.
5. FRAME AND COVER SHALL BE H-20 LOADING RATED IF INSTALLED IN ROADWAY.

CITY OF KIRKLAND	
PLAN NO. CK- D.18	
	24" MANHOLE FRAME W/LOCKING COVER AND LOGO

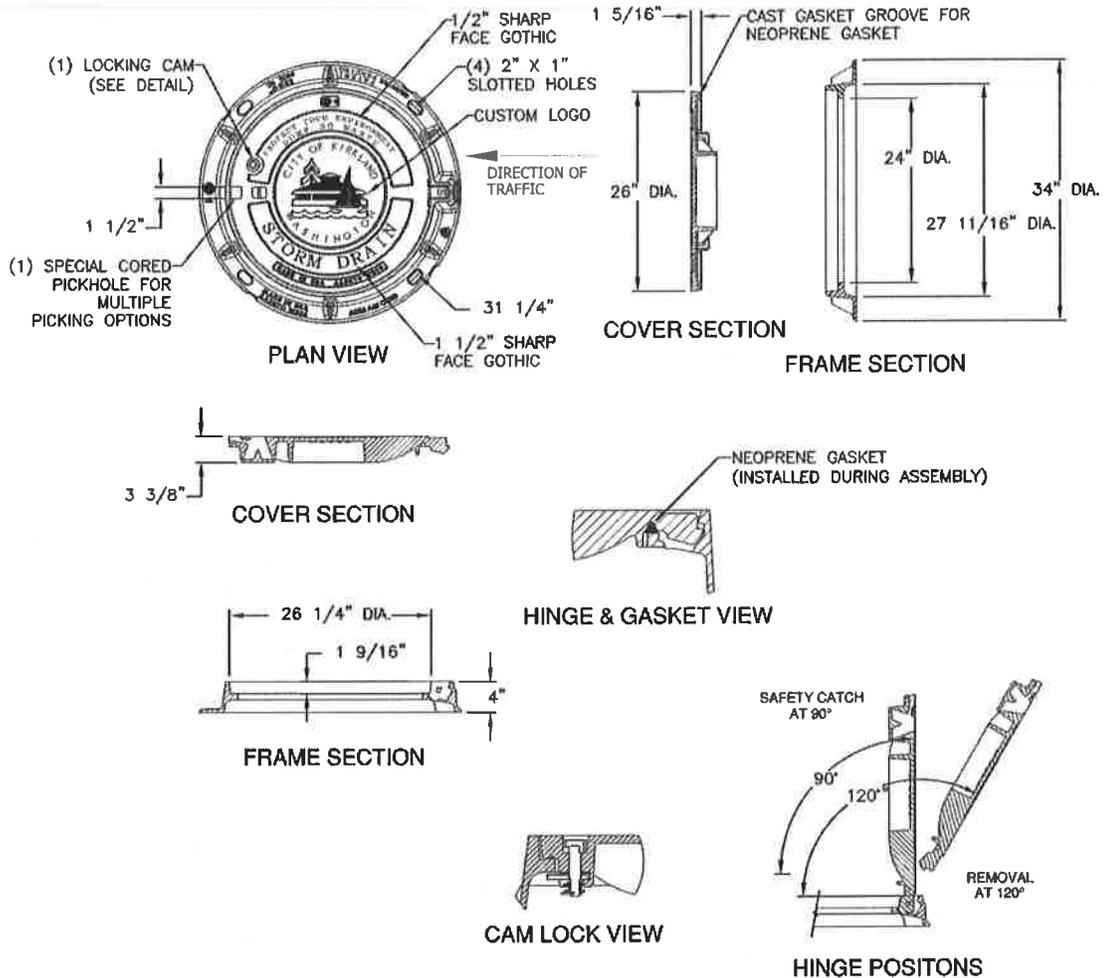


NOTES:

1. USE WITH THREE LOCKING BOLTS 5/8"-11 BOLT SOCKET (ALLEN HEAD), 2" LONG DRILL HOLES SPACED 120° APART ON 23-1/16" DIA B.C.
2. COVER MATERIAL IS DUCTILE IRON ASTM A48 CL35B, WITH A MINIMUM WEIGHT OF 141 LBS.
3. FRAME MATERIAL IS DUCTILE IRON ASTM A48 CL35B, WITH A MINIMUM WEIGHT OF 134 LBS.
4. DRILL AND TAP THREE 5/8"-11 NC HOLES THROUGH RING AT 120° AND 23-1/16" DIA B.C.
5. PRODUCT SUPPLIED BY EAST JORDAN IRON WORKS, OLYMPIC FOUNDRY, OR APPROVED EQUAL.
6. FRAME AND COVER SHALL BE H-20 LOADING RATED.

CITY OF KIRKLAND	
PLAN NO. CK- S.16	
	24" MANHOLE FRAME W/LOCKING COVER

LAST REVISED: 1/2018



NOTES:

1. VERIFY SLOTTED FRAMES ARE THOROUGHLY FILLED IN WITH MORTAR FOR EFFICIENT INTERACTION WITH IRON AND STRUCTURE.
2. VERIFY BEDDING MORTAR IS NOT IN CONTACT WITH AREA UNDER LID FLANGE THAT WILL INTERFERE WITH CAMLOCK.
3. INSTALL PLUG IN LOCK HOLE TO KEEP LOCK FREE OF FOREIGN MATERIAL.
4. 24 INCH MANHOLE LID IS FITTED WITH AN INFILTRATION PLUG LOCATED IN THE HINGE HOUSING OF THE FRAME. VERIFY PLUG IS PROPERLY INSTALLED BEFORE INSTALLING THE FRAME.
5. REQUIRED ON ALL ARTERIALS, COLLECTORS OR ANY TIME THAT THE IRON WILL BE WITHIN THE TRAVEL LANE.
6. LID SHALL BE MARKED "STORM" OR "DRAINAGE".
7. CITY OF KIRKLAND LOGO REQUIRED.
8. LID MUST BE COVERED WITH TAR PAPER BEFORE OVERLAY.
9. PRODUCT SUPPLIED BY EAST JORDAN IRON WORKS, OR APPROVED EQUAL.
10. FRAME AND COVER SHALL BE H-20 LOADING RATED IF INSTALLED IN ROADWAY.

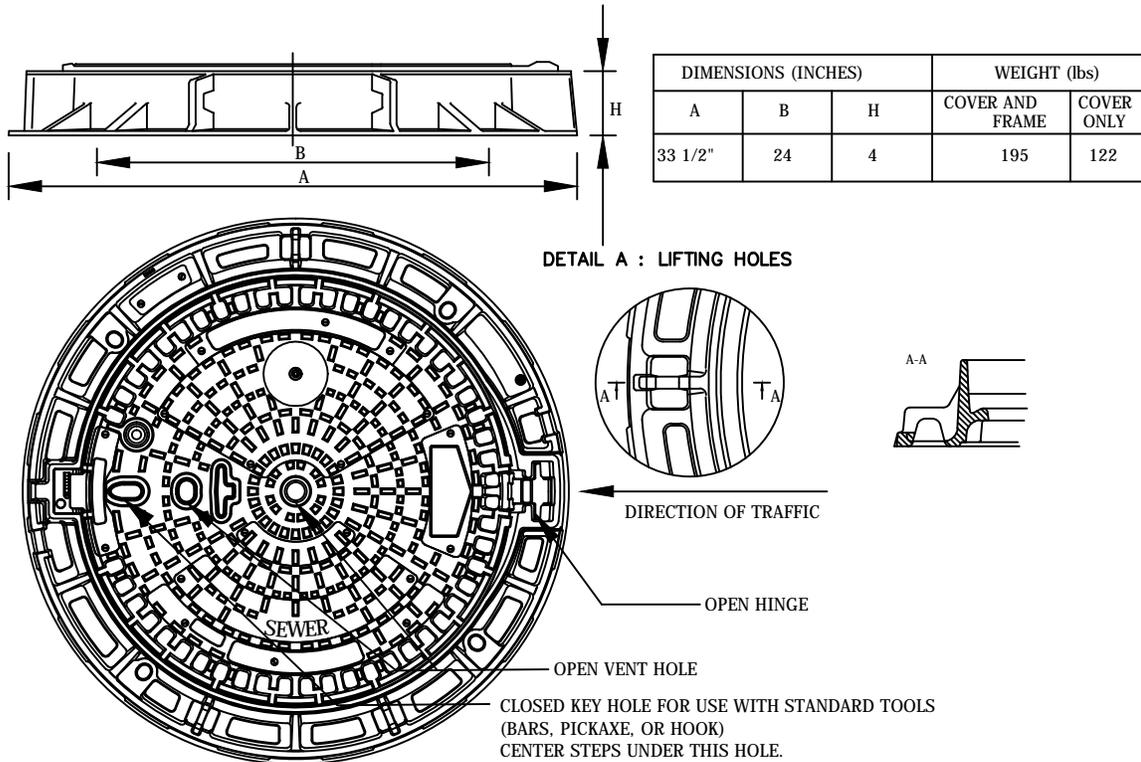
CITY OF KIRKLAND

PLAN NO. CK-D.18A



**MODIFIED 24"
MANHOLE FRAME
W/ HINGED COVER**

24 INCH MANHOLE COVER AND FRAME



NOTES:

1. VERIFY SLOTTED FRAMES ARE THOROUGHLY FILLED IN WITH MORTAR FOR EFFICIENT INTERACTION WITH IRON AND STRUCTURE.
2. VERIFY BEDDING MORTAR IS NOT IN CONTACT WITH EITHER HINGE HOUSING OR CUSHIONING INSERT.
3. VERIFY GASKET IS PROPERLY CLAMPED ON ITS FRAME GROOVE ALONG ITS ENTIRE LENGTH.
4. GASKET CAN BE REPLACED; USE ONLY ORIGINAL PAMREX GASKET, AVAILABLE THROUGH AUTHORIZED DEALERS.
5. PAMREX 24 INCH IS FITTED WITH AN INFILTRATION PLUG LOCATED IN THE HINGE HOUSING OF THE FRAME. VERIFY PLUG IS PROPERLY INSTALLED BEFORE INSTALLING THE FRAME.
6. REQUIRED ON ARTERIALS ONLY (PRINCIPLE AND MINOR). MAY ALSO BE REQUIRED ON SOME HIGH VOLUME COLLECTORS BY PUBLIC WORKS ENGINEER.
7. TO BE USED FOR SEWER AND STORM MANHOLES ON NEW AND REPLACED LIDS.
8. TO BE USED IN TRAVEL LANES ONLY. PARKING LANES, BIKE LANES, CENTER TURN LANES, ETC. ARE EXEMPT.
9. CITY OF KIRKLAND LOGO NOT REQUIRED
10. LID MUST BE COVERED WITH TAR PAPER BEFORE OVERLAY.
11. FRAME AND COVER SHALL BE H-20 LOADING RATED.

CITY OF KIRKLAND	
PLAN NO. CK-S.16A	
	MODIFIED 24" MANHOLE FRAME W/ LOCKING COVER