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ADDENDUM 1

HOFFMAN ESTATES PARK DISTRICT TRIPHAHN CENTER ICE ARENA NORTH ICE RINK FLOOR REPLACEMENT PROJECT NO. 193804620 HOFFMAN ESTATES, ILLINOIS

DECEMBER 9, 2019

Number of Pages: <u>14</u> (includes this sheet and the attachments)

To: All Planholders of Record

From: Stantec 733 Marquette Avenue Suite 1000 Minneapolis, Minnesota 55402-2309 (612) 712-2084 – Jim Maland, Project Manager/Engineer (612) 712-2047 – Patrick Fournier, Project Designer

The following changes, additions, and deletions are hereby made a part of the Bidding Documents. Bidder shall acknowledge receipt of this Addendum on the Form of Proposal. Failure to do so may result in rejection of the Bid.

PREBID MEETING

1. A mandatory Prebid meeting was held on December 5, 2019 at 1:00 PM. The list of attendees is as follows:

HEPD Triphahn Center Ice Arena **Mandatory Prebid Meeting Attendee's** Triphahn Center: 12/5/2019 @ 1:00PM **Attendee's:** Name Company Email

| | Name | Company | Email | Phone |
|-----|---------------|----------------------------|-------------------------------|--------------|
| 1) | Jim Maland | Stantec Consulting Ltd. | jim.maland@stantec. | 612-712-2084 |
| 2) | Mike McDevitt | MN Ice | mike@mnice.us | 612-919-1919 |
| 3) | Steve Karecki | WB Olson | srk@wbo.com | 874-498-3800 |
| 4) | Bill Handt | Alliance Concrete Sawing | bhandt@alliancesawing.com | 847-783-6585 |
| 5) | Ken Leisering | Johler Demolition Inc. | ken@johlerinc.com | 842-800-0374 |
| 6) | Jerry Waters | Hard Rock Concrete Cutting | | 847-489-2802 |
| 7) | Dan Smith | Cimco Refrigeration | | 269-612-8298 |
| 8) | Joel Anderson | Total Mechanical | bpylkas@totalmech.com | 651-768-9367 |
| 9) | Jim Haley | Raffin Construction | raffin@raffinconstruction.com | 773-785-3055 |
| 10) | Dan Krawczyk | Ice Builders | dan@icebuilders.com | 315-413-0200 |

| 11) Dustin Hugen | Dir. of Prks, Plng, & Maint. |
|------------------|------------------------------|
| 12) Nick Catino | Ice Maintenance Manager |

<u>dhugen@heparks.org</u> ncatino@heparks.org 847-285-5465 847-885-7500

Note: Conducted a general walkthrough of the site. Emphasized the need for one point of contact during construction and that meeting air quality during construction, per OSHA, was the Contractors responsibility. Mentioned that there will be an Addendum No. 1 being issued on Monday 12/9/2019 and that it will include an incentives and liquidated damages clause as well as some clarifications in the transmission main alignment.

SPECIFICATIONS

SECTION 00 21 13 INVITATION TO BIDS/INSTRCUCTIONS TO BIDDERS/FORM OF PROPSAL

1. Replace this section in its entirety with the attached section. Note the incentives and liquidated damages clause.

SECTION 01 10 00 SUMMARY

2. Replace this section in its entirety with the attached section. Note the incentives and liquidated damages clause.

SECTION 13 18 16 ICE RINK DASHER BOARDS

3. Replace this section in its entirety with the attached section. The formatting of the specification has been established in the specification.

DRAWINGS

- 1. Replace the attached Drawings No. R101, R102, R104, R105, R106, R502, R505, R506, R507, R508 with the drawings in the plan set.
 - a. R101 Shows a slightly revised geometry for the existing saw cut boundary.
 - b. R102 Shows a blow-up of the revised geometry for the existing saw cut boundary.
 - c. R104 Shows a revised alignment for the transmission mains once inside the arena space.
 - d. R105 Shows a revised alignment for the transmission mains once inside the arena space.
 - e. R106 Shows a blow-up of the revised alignment for the transmission mains once inside the arena space.
 - f. R505, R506, R507, R508 shows the original arena drawings dated February 2004 for reference.

END OF DOCUMENT

| Bidder Name: | |
|--------------|--|
| Address: | |
| | |
| Telephone #: | |
| Facsimile: | |

NAME OF PROJECT

Ice Rink Replacement

MANDATORY PRE-BID WALK-THROUGH: 12/05/2019 TIME: 1:00PM

BID DATE: 12/13/2019

BID TIME: 10:00AM

PREPARED BY:

HOFFMAN ESTATES PARK DISTRICT 1685 W. Higgins Road Hoffman Estates, IL 60169-2998 Telephone: (847) 885-7500 Facsimile: (847) 885-7523

INVITATION TO BIDS

Sealed bids for the **Ice Rink Replacement** will be received by the Hoffman Estates Park District at our office; 1685 West Higgins Road, Hoffman Estates, Illinois 60169 until **exactly 10:00A.M.**, **12/13/2019** and then publicly opened and read. Bids submitted after the closing time will be returned unopened. No oral or telephone proposals or modifications will be considered.

The Hoffman Estates Park District Board of Commissioners will make the final award.

Proposals shall be submitted on the attached Form of Proposal and returned in the envelope, if provided. No bidder may withdraw his proposal after the hour set for the opening thereof, or before award of the contract, unless said award is delayed for a period exceeding sixty (60) calendar days.

The Hoffman Estates Park District requires all bidders to comply with all provisions of the Park District Prevailing Wage Ordinance O. This ordinance specifies that no less than the general prevailing rate of wages as found by the Park District or Department of Labor or determined by a court on review shall be paid each draft type of worker or mechanic needed to execute the contract or perform the work.

The Hoffman Estates Park District may reject any or all of the bids on any basis and without disclosure of a reason. The failure to make such a disclosure shall not result in accrual of any right, claim, or cause of action by any unsuccessful Bidder against the Hoffman Estates Park District.

Bid results and the award of the bid will be published on the Hoffman Estates Park District website <u>www.heparks.org</u>.

Sincerely,

Dustin Hugen

Dustin Hugen Director of Parks, Planning & Maintenance Hoffman Estates Park District <u>dhugen@heparks.org</u> 847-285-5465

HOFFMAN ESTATES PARK DISTRICT

INSTRUCTIONS TO BIDDERS

1. Identification of Project

The official name and location of the project shall henceforth be known as:

Ice Rink Replacement

The official name and address of the project owner shall henceforth be known as:

HOFFMAN ESTATES PARK DISTRICT 1685 West Higgins Road Hoffman Estates, IL 60169-2998

| Committee Approval: | DATES <u>12/17/2019</u> |
|---------------------|-------------------------|
| Board Approval: | DATES <u>12/17/2019</u> |
| Contract Awarded: | DATES 12/18/2019 |

<u>Commencement of Work</u>: Commencement of paperwork shall begin immediately upon notification of award. Actual work shall commence according to timelines set by HEPD(owner). <u>February 17, 2020 – Begin staging material and setup</u>

March 2, 2020 – Begin construction

| Completion Date: | <u>September 4, 2020</u> |
|-----------------------------|---|
| Incentives: | The Owner shall pay the Contractor <u>\$750.00</u> for each day prior to the Completion Date that the Work is complete. |
| <u>Liquidated Damages</u> : | The Contractor shall pay the Owner <u>\$750.00</u> for each day that expires after the Completion Date until the Work is complete. |

HOFFMAN ESTATES PARK DISTRICT Hoffman Estates, Illinois

FORM OF PROPOSAL

| Proposal of | | , hereinafter called the |
|-------------------------------|----------------------------|--------------------------|
| "BIDDER", (a) / (an) | | |
| | (Corporation, Partnership, | |
| individual) doing business as | | , to Hoffman Estates |

The Bidder, in response to your advertisement for bids for **Ice Rink Replacement** and delivery, having examined the Specifications and other Documents and being familiar with all of the conditions surrounding the proposed work (purchase/sale) including availability of materials and labor, hereby proposes to furnish all labor, materials and supplies and to construct the project in accordance with the Contract Documents, within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents of which this proposal is a part.

* * *

Bidder acknowledges receipt of the following Addenda, which are a part of the Contract

Document: Numbers: _____, ____, ____, ____, ____,

Bidder hereby agrees to start work within ten (10) days after receipt of "Notice to Proceed" from the Owner.

BASE BID: Bidder agrees to provide all equipment, materials, and labor described in the Drawings and Specifications, with exception to Optional Bid items, for the lump sum of:

(Dollars)

(in writing)

OPTIONAL BID (ADD) CONCRETE REPAIR OF SUB-SLAB: Bidder agrees, if required, to provide all equipment, materials, and labor described as Optional Bid on Sheets R-102 and R-504 in the Drawings and Specifications for a lump sum of:

(Dollars) Added to Base Bid if Optional Bid is awarded.)

Park District, hereinafter called the "OWNER."

(in writing, insert amount to be

Note: The Owner reserves the right to award the Optional Bid in totality if after exposing the sub slab during construction it is determined required. However, if the amount of square footage of sub slab reconstruction deviates from the 3,060 square feet shown on the plan a negotiated adjustment to this amount will occur and adjusted by a change order to the contract Base Bid.

If no reconstruction of the sub slab is required, the Optional Bid will not be awarded and no additional compensation to the Base Bid will be provided. The Owner will consider both Base Bid and Optional Bids in their Basis of Award.

CONTINUED OPERATION COST FOR FROST HEATING SYSTEM: Bidder agrees to provide all equipment, materials, and labor to maintain and operate the frost heating system (including fuel) for each calendar day beyond the 45 days provided in the Base Bid for the per day cost of: (Dollars) (in writing, insert amount to be added to Base Bid, per day, if frost heating system specified in Section 13 18 02

amount to be added to Base Bid, per day, if frost heating system specified in Section 13 18 02 must be operated longer than 45 days to adequately remove subsoil frost.)

| HOFFMAN ESTATES PARK DISTRICT | FIRM NAME | |
|--|-----------------|-----------------|
| BY:(Sign and Date) | ADDRESS | |
| BY:(Sign and Date) | PHONE | (Sign and Date) |
| Accompanying this is a(Bid Bond, Certified | d Check, Bank I | Draft) |
| In the amount of | | |

(Dollars)

(\$_____) being five percent (5%) of the Base Contract Bid, the same being subject to forfeiture in the event of default by the undersigned.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids and it is agreed that this bid may not be withdrawn during the period of days in the Contract Documents.

The Bidder hereby certifies:

- A. That this bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation.
- B. That he has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.

- C. That he has not solicited or induced any person, firm, or corporation to refrain from bidding.
- D. That he has not sought by collusion or otherwise to obtain for himself any advantage over any other bidder or over the "Owner."
- E. That he will comply with all provisions of the Prevailing Wage Ordinance #O-_____ adopted by the Hoffman Estates Park District.
- F. That he is in compliance with the Criminal Code Act of 1961, Article 33E-11, Public Contracts, and Public Act 85-1295.
- G. That all materials, methods and workmanship shall conform to the drawings, specifications, manufacturer's standards and specifications, and all applicable Codes and Standards.

FORM 1 – BID

CERTIFICATION

I, _________ (Officer), having been first duly sworn on Oath, do depose and state that I presently reside at ________ (Address), and that I am the duly authorized principal, officer or agent of ________ (Name of Contractor) and do hereby certify to Hoffman Estates Park District, its Commissioners, Officers and Employees that neither I nor _______ (Name of Contractor) are barred from bidding on the Contract for which this bid is submitted, and as a result of violation of either Section 33E-3 (Bid-rigging") or Section 33E-4 ("Bid-rotating") of Article 33E of the Criminal Code of 1961 of the State of Illinois approved July 28,1961, as amended.

On behalf of Contractor

Subscribed and sworn to before me

this _____ day of _____, 20____

- Notary Public -

My Commission Expires:

SUBCONTRACTORS

The following list includes all Subcontractors who will perform work representing five percent (5%) or more of the total base bid. The Bidder represents that the Subcontractors are qualified to perform the work required.

| Cat | egory | Subcontractor Name | Address |
|-----|-------|--------------------|---------|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |

REFERENCES

| | | Hoffman Estates IL 60169 |
|------------------|-------------------------------|--------------------------|
| Ref 1. | erences for: Company Name: | |
| | Address: | |
| | City-state: | |
| | Phone Number: | |
| | Contact Person: | |
| 2. | Company Name: | |
| | Address: | |
| | City/State: | |
| | Phone Number: | |
| | Contact Person: | |
| 3. | Company Name: | |
| | Address: | |
| | City/State: | |
| | Phone Number: | |
| | Contact Person: | |
| 4. | Company Name: | |
| | Address: | |
| | City/State: | |
| | Phone Number: | |
| | Contact Person: | |

STATEMENT OF EXPERIENCE

The Bidder shall list all recent projects for which he provided services of a similar nature to the subject project.

| Project/Location | Contract Amount | Reference/Phone # |
|------------------|-----------------|-------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |

HOFFMAN ESTATES PARK DISTRICT Hoffman Estates, Illinois

Please list all of the equipment you will be using on this specific job.

SUSTAINABILITY STATEMENT

Introduction

The Hoffman Estates Park District is committed to green and sustainable practices and good environmental stewardship. Consequently, we are asking bidders to provide a Statement of Sustainability to ensure our bidders are also incorporating sustainability into their firm's practices.

Instructions

Provide a clear description of your firm's sustainable practices, policies or procedures to the below sections or attach a copy of your practice. These practices may include but are not limited to:

<u>Waste Minimization</u> within the office or facilities through recycling programs, double-sided copying, electronic internal communications, recycled content in materials, reusable cups, limited printing, electronic document management, green purchasing policies, green cleaning supplies or reduced packaging in materials procured or supplied.

<u>Energy Efficiency</u> within office, facilities or firm through lighting retrofits, photo sensor switches for lighting, use of day lighting, Energy Star rated appliance or equipment, alternative fuel or efficient fleet, anti-idling policy, or indoor temperature management.

<u>Water Efficiency</u> in office, facilities or firm through faucet or fixture retrofits, switch individual bottled water to office water coolers or drinking fountains, drought tolerant landscaping.

<u>Staff</u> are encouraged to be sustainable and supported by your firm through public transit benefits, bicycle accommodations, telecommuting options, support to attend green seminars, US Green Building Council LEED accredited or the creation of an internal green team.

<u>Education</u> of your staff about green practices, your business peers of your green accomplishments, your community of your sustainability, or any environmental awards your firm has achieved.

End

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SECTION 01 10 00

SUMMARY

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Basic description of the Project and Work restrictions.

1.02 SUMMARY OF WORK

- A. Project Name: Ice Rink Replacement
- B. Description of Work: Project consists of the demolition and replacement of a 85 ft. by 200 ft. refrigerated, concrete surface rink floor; thawing of frozen soil beneath the existing rink floor; removal, reinstallation, and minor renovations to existing ice rink dasher boards; and associated mechanical work.

1.03 PREVAILING WAGE REQUIREMENTS

- A. The Hoffman Estates Park District adopted Ordinance O18-005 ascertaining the prevailing role of wages in accordance with the Prevailing Wage Act, 820 ILCS, at a meeting of the Park Board on the 26th day of June 2018. The original Ordinance, which lists the applicable prevailing rate of wages, is a part of the official records of the Park District and is on file and available for examination at the administrative offices of the Park District, Hoffman Estates, Illinois 60169.
- B. Contractor shall comply with the requirements of the Illinois Prevailing Wage Act (820 ILCS 130/0.01 et seq.) and the Park District's Ordinances requiring payment of prevailing wages. Contractor shall pay or cause to be paid not less than the prevailing rate of hourly wage in the county the work is performed as determined by the Illinois Department of Labor for the month in which the work is performed including but not limited to all laborers, workers and mechanics. All contractors and subcontractors rendering services under this contract must comply with all requirements under the Act, including but not limited to, all wage, notice and record keeping duties.
- C. Contractor is required to verify current prevailing wage prior to the first day of each month and to pay the then-current prevailing wage rate as determined by the Illinois Department of Labor, regardless of the rates contained in the Ordinance or the Contract Documents. Any increases in costs to the Contractor due to the changes in the prevailing wage during the term of this Contract shall be at the expense of Contractor and not at the expense of Owner.
- D. Contractor agrees to indemnify and hold harmless the Park District for any violations of the Prevailing Wage Act.
- E. Contractor shall: (1) insert into each subcontract and the project specifications for each subcontract, a written stipulation that the subcontractor shall not pay less than the

prevailing rate of hourly wage to all laborers, workers, and mechanics performing work under the contract; and (2) require each subcontractor to insert into each lower-tiered contract and the project specifications for each lower-tiered subcontract, a stipulation that the subcontractor shall not pay less than prevailing rate of hourly wage to all laborers, workers, and mechanics performing work under the contract.

- F. Contractor shall include on all bonds and shall cause all subcontractors' bonds required under the Contract Documents to guarantee compliance with the Prevailing Wage Act.
- G. Contractor and each subcontractor shall make and keep, for a period of not less than three years from the date of the last payment on a contract or subcontract, records of all laborers, mechanics, and other workers employed by them on the Project; the records shall include each worker's name, address, telephone number when available, social security number, classification or classifications, the hourly wages paid in each pay period, the number of hours worked each day, and the starting and ending times of work each day. Contractor shall submit monthly, no later than the 10th day of each calendar month, in person, by mail, or electronically a certified payroll to the Park District with each monthly pay request in the form attached to the Contract Documents. The certified payroll shall be accompanied by a statement signed by the Contractor or subcontractor which states that: (i) he or she has examined the certified payroll and such records are true and accurate; (ii) the hourly rate paid to each worker is not less than the general prevailing rate of hourly wages required by this Act; and (iii) the Contractor or subcontractor is aware that filing a certified payroll that he or she knows to be false is a Class A misdemeanor. Contractor may rely on the certification of a lower tier subcontractor, provided the Contractor does not knowingly rely upon a subcontractor's false certification. The records submitted in accordance with this payroll submittal provision shall be considered public records pursuant to Section 5 of the Prevailing Wage Act, 820 ILCS 130/5 (2004, as amended by P.A. 94-515). The Park District may, at its option, immediately terminate the Contract in the event that Contractor violates any provision of this paragraph or the Prevailing Wage Act.
- H. Contractor shall post the prevailing wage rates for each craft or type of worker or mechanic needed to complete the project at either: (1) a location on the project site easily accessible to the workers engaged on the project; or (2) in lieu of posting on the project site, if the Contractor has a business location where laborers, workers, and mechanics may regularly visit, the Contractor may either post the prevailing rate of wages in each county the Contractor works in a conspicuous location or provide the laborers, workers or mechanics engaged on the project a written notice indicating the prevailing rate of wages for the project.
- I. Upon seven business days' notice, Contractor and each subcontractor shall make available for inspection and copying at a location within this State during reasonable hours, the records identified in 820 ILCS 130/5(a)(1) to the Owner, its officers and agents.

1.04 COMPLETION DATES

A. Substantial and Final Completion Date: September 4, 2020.

1.05 INCENTIVES

A. The Owner shall pay the Contractor \$750.00 for each day prior to the Completion Date that the Work is complete.

1.06 LIQUIDATED DAMAGES

A. The Contractor shall pay the Owner \$750.00 for each day that expires after the Completion Date until the Work is complete.

1.07 WORK RESTRICTIONS

A. Use of Site:

- 1. Location of construction facilities, staging areas, product stockpiles, material storage, and temporary construction:
 - a. Will be provided on the Project site inside the existing building or on paved parking lots adjacent the building.
 - b. Contractor is responsible to provide storage facilities, trailers, security fencing, etc. An area of parking lot approximately 75' x 260' in size shall be completely surrounded by a 6 ft height temporary chain link fence with minimum two large lockable equipment gates.
 - c. Shall be reviewed with and approved by the Owner at the preconstruction meeting prior to start of the Work.
 - d. Temporary facilities shall be removed upon completion of the Work.
- 2. All Work shall be within the affected property limits:
 - a. If Contractor wishes to use additional areas outside the property limits for construction purposes, they shall be solely responsible for all expenses associated with such use.
 - b. Contractor shall provide written proof of permission to utilize lands outside property limits to both Owner and Engineer prior to using such lands.
- 3. Adjacent private and public properties:
 - a. No trespassing on adjacent private or public properties.
 - b. Keep construction debris from entering adjacent properties.
 - c. Respect the rights of the public and adjacent property owners, especially those living in residential properties affected by the Work:
 - 1) Prohibit use of foul or objectionable language.
 - 2) Avoid display of offensive materials.
 - 3) Treat residents courteously during interactions.
- 4. Working hours for any work outside the building shall comply with Village of Hoffman Estates noise ordinance of 7:00 A.M. to 7:00 P.M. Monday through Friday, and 8:00 A.M. to 6:00 P.M., Saturday and Sunday, unless written authorization is granted by the Owner and by the Village of Hoffman Estates:
 - a. Includes starting of outdoor machinery in morning for warm-up period.
 - b. Includes use of equipment for loading or unloading of delivery vehicles.

1.08 OTHER WORK AT SITE

A. Contractor shall not perform their operations in a way to hinder or delay improvements made by others under separate projects. Contractor is responsible for coordination as necessary with other Contractors in regard to access, scheduling, utility interruptions, etc.

1.09 ARENA AND COMMUNITY CENTER OPERATIONS

- A. The existing north ice rink as well as the adjacent Community Center will remain in full operation throughout the duration of this project. Contractor's operations shall not interfere with the ongoing public activities.
- B. Contractor's employees shall fully cooperate with the Owner's staff and shall adjust scheduling of activities that are loud, dusty, or could otherwise interfere with the ongoing public activities.
- C. Contractor's deliveries and construction routes shall occur to the rear of the building to minimize interaction with the public.
- D. Owner's staff will construct a temporary partition wall inside the ice resurfacer room to separate ongoing ice resurfacing operations from the access travel route necessary for the demolition and construction work. The ice resurfacer that normally is used for the south rink will be removed and stored off-site during the construction period.
- E. Scheduled shutdowns of electricity to the facility and refrigeration system, if required, shall be scheduled to occur when the facility is closed to the public, and shall be no longer than 3 hours duration to minimize effect on the remaining ice sheet.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 13 18 16

ICE RINK DASHER BOARDS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
- 1. Removal, storage, replacement, and renovations to existing dasher board system.

1.02 RELATED SECTIONS

- A. Related Work Specified Elsewhere:
 - 1. Division 00 Procurement and Contracting Requirements and Division 01 General Requirements Sections apply to work of this Section.
 - 2. Section 02 41 19 Selective Demolition.
 - 3. Section 13 18 00 Ice System General.
 - 4. Section 13 18 13.01 Rink Floor Concrete Surface.

1.03 PREBID INSPECTION

- A. A mandatory prebid inspection of the existing dasher system is required to determine the renovation requirements of the dasher boards. The prebid inspection will be held on Thursday, December 5th, 2019 at 1:00 PM. The purpose of the prebid inspection is primarily for bidding dasher board contractors to be present to review and inspect the dasher boards system in detail to verify the requirements for renovating the system as specified. The Owner will have all the backer panels removed from the dasher boards to allow observation of the steel frames
- B. The Dasher Board renovations will include at minimum:
 - 1. Install new kickplate.
 - 2. Install new thresholds on all gates.
 - 3. Insert blue lines on the dasher board faces full height.
 - 4. Inspect and repair welded steel frames throughout the rink.
 - 5. Dasher boards on both ends of the rink require repair on frames and some of the side rink boards are leaning and will require repair and realignment.
 - 6. Install all new hardware on equipment, player and skater gates.
 - 7. Hardware includes hinges, latches and ADA push button door releases.
 - 8. Install new spring mounted casters on all double gates.
 - 9. Install new curved safety shield on player boxes as described in contract documents.
 - 10. See remaining specification for a detailed description of requirements.

1.04 SUBMITTALS

- A. Where revisions to existing dasher boards are proposed at the player box corners as described later in this section, the contractor shall prepare shop drawings that itemize sizes and materials, as well as construction details for installation.
- B. Where revisions to existing dasher boards are proposed at the player box corners as described later in this section, the contractor shall prepare shop drawings that itemize sizes and materials, as well as construction details for installation.
- C. Polyethylene samples shall be submitted for Owner/Engineer approval of color and quality of new red poly caprail material.

1.05 QUALITY ASSURANCE

A. All materials shall be per Drawings and Specifications, and constructed, manufactured, and installed per Drawings and Specifications. All materials supplied under these Specifications shall be new and of the best grade material and construction. Contractor must have at least five installations in the past 5-years similar in construction to the following Specifications. A list of these installations including names, addresses, contacts, and telephone numbers is to be included with requests for prior approval of contractors other than those listed in Paragraph 13 18 16.2.01.A below.

1.06 GUARANTEE

A. Contractor shall guarantee all new components and equipment from defects in materials and/or workmanship for a period of two years from substantial completion.

1.07 SCHEDULE

- A. Existing dasher board components shall be removed from the rink immediately after the project Notice to Proceed is issued, so the demolition of the existing rink floor can proceed.
- B. Installation of the dasher board cast-in-place insert anchors shall be coordinated to occur immediately prior to the new rink concrete placement date.
- C. Modification and reinstallation of the dasher board components shall be arranged to coordinate with the Substantial Completion Date of the Project.

PART 2 PRODUCTS

- 2.01 ACCEPTABLE SUPPLIER/INSTALLERS
 - A. Dasher Board Systems:
 - B. Athletica, Inc./Becker Arena Products/Cascadia/Crystalplex conglomerate.
 - C. Rink Systems, Inc.

- D. Others by write-in alternate bid only. Write-in alternate bid must also include base bid approved installer.
- 2.02 MATERIALS AND EQUIPMENT
 - A. Demountable Dasher Board Sections:
 - 1. Existing galvanized, welded steel framework and poly facing shall be reused. Existing dasher boards were manufactured by Integrated Fabrication (no longer in operation) in year 2004.
 - 2. Standard size of the existing dasher panels is 96 inches long by 42 inches high.
 - 3. Contractor shall inspect the dasher board system during the Mandatory Prebid Meeting on December 5, 2019 at 1:00pm to access costs needed to provide renewed dasher boards as specified. Dasher boards appear to be in generally good condition, however the extreme depth of ice adjacent the boards have pushed them outwards, which may have caused deformation of members, failed welds, or damaged hardware. It should be also noted that the rink end panels frames are showing deformation of the steel framing and will require repairs and/or replacement framing.
 - B. Floor Anchors:
 - The Contractor shall supply all new cast-in-place insert anchors and hardware required for the installation of the dasher boards and boxes around the perimeter of the new ice rink floor. Installation of the anchors within the concrete rink slab shall be by the Dasher Board Contractor. Rink floor anchors shall be 3/4 inch zinc-plated steel internally threaded inserts, with minimum 4" x 4" x 1/4" steel base plates. Drilled-in 5/8 inch epoxy-set zinc-plated insert anchors shall be used for box walls located off the refrigerated rink floor.
 - 2. Existing steel hold down plates shall be re-used.
 - 3. Each anchor shall be supplied with a new zinc-plated steel bolt and washer to fasten dasher board foot plates to floor.
 - C. Kickplate:
 - New high-density 1/2 inch thickness polyethylene kickplate shall be provided on all dasher boards. The kickplate shall be attached to the new and existing dasher frames using 1/4 inch Phillips flat head machine screws, flat washers, and 1/4 inch nylon insert lock nuts. Heads of screws to be painted to color match the kickplate. All exposed edges of the kickplate shall have smooth and radiused edges.
 - 2. Color of kickplate shall be yellow, to match kickplate on existing dasher board panels.
 - D. Caprail:
 - New high-density 1 inch thickness polyethylene caprail shall be provided at the 4 locations where new curved shielding is installed on the ends of the player boxes. The caprail shall be attached to the new and existing dasher frames using 1/4" by 1-3/4" Phillips flat head machine screws, flat washers, and 1/4 inch nylon insert lock nuts. Heads of screws to be painted to color match caprail. All exposed edges of the caprail shall have smooth and radiused edges. Grooves shall be cut to receive glass shielding bases, but not for the curved acrylic sections.
 - 2. Color of caprail shall be red, to match caprail on existing dasher board panels.

- E. Thresholds:
 - 1. Access, player, and equipment gates shall have new white high-density polyethylene thresholds that can be removed and replaced when wearing occurs. Sills shall be 1" thickness for player gates, and minimum ½" thickness for access and equipment gates.
- F. Equipment, Skaters and Player Gates:
 - 1. Existing welded steel gate frames, poly facing, and hardware shall be re-used.
 - 2. Contractor shall inspect and repair steel dasher frames, hinges, latches and hardware as described in this section.
- G. Spectator Shield Mounting:
 - 1. New aluminum spectator shield support posts shall be installed where new curved shielding is installed at ends of player boxes. Spring-loaded posts shall be provided as required by the NHL approved design.
 - 2. Existing aluminum spectator shield support posts shall be re-used at all other locations.
- H. Spectator Shielding:
 - 1. Existing 6'-6" height tempered glass shielding shall be re-used at all locations, except where new curved acrylic shielding is installed at ends of player boxes, and where new sections of tempered glass are required directly adjacent the new curved shielding.
- I. Protective Netting:
 - 1. Existing protective netting shall remain in place on the ends, spectator side, and all four radii of the rink. Netting shall be rolled up, covered, and secured to the ceiling structure while the demolition and new construction occurs.
 - 2. Existing netting shall be securely connected to top edge of the re-installed shielding and support posts.
- J. Curved Safety Shielding:
 - 1. New curved shielding assemblies shall be installed at the ends of the existing player boxes (four locations).
 - 2. New curved shielding assemblies shall be a design that has been formally approved by the National Hockey League (NHL) and manufactured by a supplier who has provided identical mechanisms on past projects. Assemblies shall include spring loaded flex mechanisms in addition to the curved shielding component.
 - 3. New curved shielding sections shall be 6'-0" height, 3/8" thickness acrylic, not 6'-6" height, and not tempered glass.
 - 4. Installation of the new curved shielding will require the removal of existing shielding, support posts, caprail, and pads, as well as installation of new sections of tempered glass shielding, aluminum support posts, and caprail as necessary to accommodate the new curved acrylic shielding assemblies and to result in a complete continuous shielding system.
 - 5. Installation of new curved shielding on the outside corners of the player boxes (2 locations) will require installation of new divider wall sections that extend into the box area approximately 2'-0".
 - 6. Dasher board contractor shall coordinate the addition of a new raised concrete team box deck extension as detailed on the Construction Documents.

PART 3 EXECUTION

3.01 REMOVAL AND REPAIRS

- A. Existing dasher board frames, shielding, boxes and other components shall be removed from the rink floor and transported to a storage location within the facility. Available storage locations include the four team rooms and the corridor below the bleachers adjacent the south rink. All components shall be labelled as necessary prior to removal to ensure they are reassembled in their original configuration. The Contractor shall provide all carts, racks, or devices necessary for the transportation and storage of the components. Where components are proposed to be stored on edge at areas with rubber flooring, minimum 1/2 inch thickness plywood shall be placed over the rubber flooring to prevent deformation or damage to the flooring.
- B. Any components that are not proposed to be re-used shall be removed and disposed of, except the four existing shielding pads shall be given to the Owner for their use.
- C. All repairs outlined in the specification shall be included in the Base Bid. Prior to performing repair work, the Contractor shall submit a shop drawing with a descriptive memo with photos outlining the anticipated repair work. Repairs shall not take place until the Engineer and Owner have authorized the repair scope per approval of the shop drawings.
- D. Where existing dasher frames are damaged or corroded, repairs shall include rewelding to original design standards. Existing galvanized finish shall be removed by grinding prior to welding. After welding is completed, the repair areas shall be finished with cold-applied galvanizing paint.

3.02 INSTALLATION

- A. Contractor shall construct, fabricate, and deliver all materials to Site per Drawings and Specifications. All materials shall be installed to result in a complete dasher board system, with all dasher boards and spectator shielding to be straight and true to line and properly braced. Installation shall be done under the direct supervision of a manufacturer representative at all times. The use of installation subcontractors without full time manufacturer supervision is not acceptable.
- B. Installation shall be in strict conformance with manufacturer's requirements and instructions. Erect units rigid, straight, level, plumb, and true with horizontal and vertical lines level, securely anchored in place. Whether shown on the Drawings or not, this Contractor shall provide all trim, scribes, fillers, and other accessory materials for a complete, finished installation. No defective, scratched, marred, or otherwise damaged equipment and materials shall be installed.
- C. To insure skater safety, the vertical gaps between poly facing panels and poly kickplates will be measured after the dasher boards are installed, the ice rink floor is refrigerated, and the arena space has been cooled down to its normal operating temperature. Gaps between adjacent panels shall be no more than 3/16 inch in width. Where gaps exceed 3/16 inch, the full adjacent facing panel or kick plate shall be

removed and replaced with larger panels that will reduce the gap dimension below 3/16 inch.

3.03 ADJUSTMENTS

A. Put all items of equipment and systems through at least five complete cycles of operation, verifying that each item is properly installed and properly operating, and making required adjustments to achieve optimum operation.

3.04 CLEANING

- A. Clean all surfaces with spray-detergent and glass cleaner to remove surface dirt and debris. Intensive cleaning to remove old staining and puck marks will not be required.
- B. Replace all materials damaged during the removal, storage, and replacement operations at no cost to the Owner.
- C. Contractor shall be responsible for contacting and scheduling the Owners dasher board cleaning contractor when complete with the installation and required cleaning.

SECTION END





| LEGEND |
|--|
| REMOVE CONCRETE FLOOR SLAB |
| CONCRETE FLOOR SLAB PREVIOUSLY REMOVED |
| EXISTING CONCRETE FLOOR SLAB TO REMAIN |
| CONTRACTOR REMOVAL ROUTE/ CONSTRUCTION ACCESS |
| SAWCUT CONCRETE |

| R | DRAWN DESIGNE CHECKE APPROV | | | NO REV | HOFFMAN ESTATES PARK DISTRICT | I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSEDPROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS. | | |
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SUB-SOIL HEATING NOTES:

- 1. SUB-SOIL HEAT PIPING SHALL BE INSTALLED ON EXIST. CONCRETE SUB FLOOR AT EL. 98'-8". SEE DETAILS A/R-501 AND B/R-501.
- 2. SUB-SOIL HEAT PIPING JOINTS SHALL BE FUSION WELDED. JOINTS IN THE 1" PIPING SHALL OCCUR ONLY AT CONNECTIONS TO 3" HEADERS. SEE DETAIL E/R-501
- 3. PRESSURE TESTING OF PIPING SHALL BE COMPLETED PRIOR TO BACKFILLING WITH CLEAN SAND.



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SCALE: 1" = 4'-0"

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