The contractor shall verify and be responsible for all dimensions. Do not scale the drawing—any errors or omissions shall be reported to Stantec without delay.

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Hoffman Estates Park District

Tripahn Center Ice Arena
Ice Rink Floor Replacement
2018
Construction Drawings

Sheet Number | Sheet Title
---|---
G-001 | Title Sheet and Index
R-101 | Ice Rink Demolition Plan
R-102 | Subsoil Heating Plan
R-103 | Ice Rink Floor Plan
R-501 | Ice Rink Details
R-502 | Ice Rink Details
R-503 | Ice Rink Details
R-504 | Existing Rink Drawings - 2004
R-505 | Existing Rink Drawings - 2004

Board of Commissioners
Robert Kaplan, President
Patrick Kinnane, Vice President
Keith Evans, Treasurer
Pat McGinn, Asst. Secretary
Mike Bickham, Commissioner
Ron Evans, Commissioner
Lili Kilbridge, Commissioner
Craig Talsma, Executive Director, Board Secretary

Project and Bid Location
Hoffman Estates Park District
1685 W. Higgins Road
Hoffman Estates, IL 60169

Vicinity Map
SALVAGE EQUIPMENT

GATE

REMOVE EXISTING CONCRETE FLOOR, REFRIGERANT PIPING, AND SUBSOIL HEAT PIPING TO SOUTH RINK. ENSURE TRENCH IS WIDE ENOUGH FOR INSTALLATION OF NEW REFRIGERANT AND SUBSOIL HEAT PIPING.

DEMO NOTES:

1. CONTRACTOR SHALL REMOVE, SALVAGE, AND STORE BRINE AND OTHER FLUIDS FROM PIPING SYSTEMS.

2. COVER ALL OPENINGS AND VENTILATION DUCTS WITH FILTER FABRIC PRIOR TO START OF RINK DEMOLITION WORK.

3. CONTRACTOR SHALL PROVIDE,ADEQUATE VENTILATION IN CONFORMANCE WITH O.S.H.A. WORKER PROTECTION STANDARDS THROUGHOUT DEMOLITION AND CONSTRUCTION PHASES. PROVIDE TEMPORARY FANS TO SUPPLEMENT PERMANENT SYSTEMS AS NECESSARY.

4. CONTRACTOR SHALL MEASURE AND DOCUMENT WIDTH AND LENGTH OF EXISTING RINK AS WELL AS DASHER BOARD ANCHOR LOCATIONS PRIOR TO DEMOLITION. A COPY OF THE MEASUREMENTS SHALL BE SENT TO THE ENGINEER.

5. CONCRETE RINK FLOOR SHALL BE WET-SAWED INTO MANAGEABLE SECTIONS PRIOR TO REMOVAL. DRY CUT Saws, PAVEMENT BREAKERS, OR PNEUMATIC TOOLS SHALL NOT BE USED. PREVENT DIRT AND DUST FROM RISING BY WETTING DEMOLISHED CONCRETE AND SIMILAR DEBRIS.

6. CONTRACTOR SHALL PROVIDE ADEQUATE VENTILATION IN CONFORMANCE WITH O.S.H.A. WORKER PROTECTION STANDARDS THROUGHOUT DEMOLITION AND CONSTRUCTION PHASES. PROVIDE TEMPORARY FANS TO SUPPLEMENT PERMANENT SYSTEMS AS NECESSARY.

7. CONCRETE RINK FLOOR SHALL BE WET-SAWED INTO MANAGEABLE SECTIONS PRIOR TO REMOVAL. DRY CUT Saws, PAVEMENT BREAKERS, OR PNEUMATIC TOOLS SHALL NOT BE USED. PREVENT DIRT AND DUST FROM RISING BY WETTING DEMOLISHED CONCRETE AND SIMILAR DEBRIS.

8. THE EXISTING SUB-SLAB BELOW THE RINK SHALL BE LOCATED AND PROTECTED FROM DAMAGE BY THE DEMOLITION OPERATIONS.

9. ALL REMOVED MATERIALS FROM THE AREA SHALL BE REMOVED THROUGH THE REMOVAL ROUTE SHOWN.

10. REMOVE FROST FROM THE SOIL BENEATH THE RINK FLOOR AS DESCRIBED IN SPECIFICATION SECTION 131802. EXISTING DASHER BOARDS, CONCRETE RINK FLOOR AND SUBSLAB INSULATION SHALL BE REMOVED PRIOR TO START OF FROST REMOVAL.

11. DASHER BOARDS AND ACCESSORIES SHALL BE REMOVED AND SALVAGED Prior TO REMOVAL. DASHER BOARDS AND ACCESSORIES SHALL BE CAREFULLY MEASURED AND Labeled PRIOR TO REMOVAL. DASHER BOARDS AND ACCESSORIES SHALL BE CAREFULLY REMOVED AND STORED AS DESCRIBED IN THE SPECIFICATIONS.
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.
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO STANTEC WITHOUT DELAY.

PERIMETER CONCRETE

COORDINATE PLACEMENT OF INSERT ANCHORS

PLACED AT EACH RETURN BEND LOCATION IN PLACE OF THE NOTE:
CONTINUOUS REBAR SHOWN ON THIS DETAIL.

AT CONTRACTOR'S OPTION, INDIVIDUAL PIPING ANCHORS MAY BE MAX.

WITH DASHER BOARD INSTALLER, TYP.

1" POLY TUBING @ 3" O.C.

INSTALL CONCRETE SEALER

EXTRUDED POLYSTYRENE INSULATION, TWO 1 1/2" LAYERS

NO SCALE

RINK FLOOR SECTION

NOTE:
AT CONTRACTOR'S OPTION, INDIVIDUAL PIPING ANCHORS MAY BE PLACED AT EACH RETURN BEND LOCATION IN PLACE OF THE CONTINUOUS REBAR SHOWN ON THIS DETAIL.

1" IPS POLY SOCKET FUSION, TYP.

1" 1 3/8" COVER'

EL. 100.00'

HEADER TRENCH SECTION

PROFILE PLAN

HEADER PAVING PLAN

PIPE SUPPORT CHAIR

NO SCALE

EXISTING PERIMETER CONCRETE

1" POLY PIPE AROUND RINK PERIMETER

1" EXPANSION JOINT, DETAIL A/R-502

RINK FLOOR SECTION

HEADER TRENCH SECTION

HEADER PAVING PLAN

PIPE SUPPORT CHAIR

NO SCALE

EXISTING PERIMETER CONCRETE

1" POLY PIPE AROUND RINK PERIMETER

1" EXPANSION JOINT, DETAIL A/R-502
ICE TEMPERATURE SENSOR

A. PERIMETER EXPANSION JOINT

- PERIMETER CONCRETE
- COMPRESSION SEAL, 1/4" MAX.
- PVC SCH. 40 CONDUIT TO REFRIGERATION EQUIPMENT ROOM
- STRAIGHT CONNECTIONS
- MALLEABLE IRON CONDUIT BODY
- BONDING GROUNDING STRIP
- 3/4" STEEL PIPE CAP
- RTD TEMPERATURE SENSOR
- PVC SCH. 40 CONDUIT
- MALLEABLE IRON "C" CONDUIT BODY
- EPOXY ADHESIVE

B. ICE TEMPERATURE SENSOR

- EDGE CONCRETE AROUND COVER SO COVER CAN BE EASILY REMOVED
- MALLEABLE IRON 1/8" IRON CONDUIT BODY
- THREADED CONNECTIONS
- KTD TEMPERATURE SENSOR
- KND MOUNTING BRACKET
- 3/4" STEEL PIPE CAP

C. TRANSMISSION TRENCH SECTION

- Pipe Support & Reinforcement
- Pipe Support Chair 2" 400# T.Y. Cast Iron
- 1" Poly Perimeter Pipe

- Existing Concrete Slab
- 2 1/4" THICK DEPTH
- Depth Varies 2'-10" to 4'-4 1/2" - See Sheets R-504 and R-505 for Details

- 4" PVC, SCH. 40 DRAIN TEE OUTLET PIPE @ 0" O.C.
- 2" Poly Perimeter Pipe @ 3'-0" O.C.
- 1" Poly Perimeter Pipe
- 1" Socket Weld 90° Bend, TYP. OR SINGLE PIECE 180° BEND
- 1" Poly Tubing @ 3.5" O.C.

- Transmission Mains
- Transmission Trench Section
- SEE SHEET R-505 FOR ROUTING OF PROPOSED PIPES AND CONDUITS
- ROUTING SHALL REPLICATE EXISTING CONDITIONS, INCLUDING TEE CONNECTIONS TO BOTTOM SIDE OF FOUNDATION WALLS

D. PIPING AT RINK ENDS

- PVC SCH. 40 CONDUIT AND SENSOR, TYP. OF 2 CABLE FOR TEMPERATURE
- PVC JACKET

- 12" LONG 4# REBAR DOWN, DRILLED 4" INTO EXISTING CONCRETE @ 12" O.C.
- EPOXY ADHESIVE

E. PIPING AT RINK ENDS

- PIPE SPACES TO HAVE MINIMUM TWO TUBE OVERLAP
- PIPE SPACERS TO HAVE MINIMUM TWO TUBE OVERLAP AT THE END OF EACH 6'-0" LONG PIPE SPACER AS SHOWN

F. PIPE SUPPORT & REINFORCEMENT DETAIL

- #4 REBAR @ 14" O.C. MIN.
- 25" SPICE LAP LENGTH
- #4 REBAR @ 14" O.C. MIN.
- 25" SPICE LAP LENGTH
- END JOINTS OF WALL"
NOTE: DRAWINGS SHOWN ARE FROM THE CONSTRUCTION DRAWINGS FOR BLACKHAWK COMMUNITY CENTER, ICE CENTER REMODELING PROJECT DATED FEBRUARY 2004. THEY SHOULD BE USED AS A REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY INFORMATION ON THIS SHEET PRIOR TO CONSTRUCTION.
NOTE: DRAWINGS SHOWN ARE FROM THE CONSTRUCTION DRAWINGS FOR BLACKHAWK COMMUNITY CENTER, ICE CENTER REMODELING PROJECT DATED FEBRUARY 2004. THEY SHOULD BE USED AS A REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY INFORMATION ON THIS SHEET PRIOR TO CONSTRUCTION.