

Proposal for Allentown Ice Skating Park 2019

April 25, 2019, Version 9

The Allentown Economic Development Committee has been working on plans for a seasonal ice skating rink for the use and enjoyment of area residents and their children. The rink was one of the top desirable recreational projects cited in the *Recreational Amenities Project Scope* that was issued after the Plan NH Charette of October 2016. The design is based on a 60x100 ft. skating rink located at Webster Park in Epsom and maintained by the Epsom Parks & Recreation Department.

Critical elements include finding a location and obtaining funding. Funding may be available from the Parks & Rec. Commission once sufficient volunteers have been found.

Materials and Costs

For a list of materials and parts, see Appendix A, Ice Skating Rink Parts and Materials.

Sponsors

To reduce the funds that need to be raised, the EDC may solicit donations of materials or money from the following community businesses. In mid-2018, the Town Administrator advised that donations of materials is not a problem and the town can provide a receipt they can use for taxes. For cash, the town would need to set up an escrow account earmarked for this specific project.

- Associated Grocers of New England
- Advanced Paving
- Aubuchon's Hardware
- A&B Lumber
- Irving Gas
- Dunkin Donuts

Possible Locations and Amenities Needed

Three locations have been identified. The Dupont School location was favored as being closest to the residents and students of the downtown area, easiest to maintain, less costly than the Volunteers Park location, and safer than the Iris Pond location.

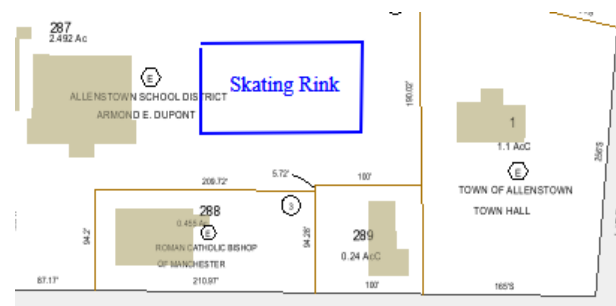
1. Armond Dupont field

A 60 ft. x 100 ft. rink was proposed for the unused field between ARD and Town Hall. The closer to the school building, the better for access for a snowblower or tanker fire truck or hose from the school.

Installation will depend on the air temperature.

After discussions with the School Board at the end of 2018, the School Board informed the EDC that they decided to use the field for basketball courts and other outer equipment.

With the April 2019 announcement that ARD students will need to be relocated, this location may again become available.



2. Iris Pond/Bridge Park

Once the river has frozen to a sufficient depth, a 100 ft. x 100 ft. area on the southeast side of the park peninsula and away from the main river channel can be roped off. Access would be from Bridge Park next to the double-decker bridge (Rte. 3).



3. Volunteer's Park, River Road



The 60 ft. x 100 ft. rink is to be installed on the ball field near the fire hydrant. Installation will depend on the air temperature.

Fire Hydrant – On Wall St. as a source of water to fill the rink enclosure. Also to be used to resurface the ice. Will need assistance from Pembroke Water Works since this is not a winterized hydrant.

For either location:

Hours & Days Of Operation – During daylight all week and until 9 p.m. on Friday and Saturday nights. From mid-December to the end of February, depending on ice conditions.

Signs – 1) To acknowledge donors (similar to the signs at Little League fields); 2) to provide a statement of regulations and hours of operation.

Benches – A few benches for changing footwear.

Concession Stand – see below.

Lights – Needed only if night use to be permitted. The Fire Dept. has a portable light tower that might be borrowed. Installation of a permanent, LED-style light pole depends on popularity of the park.

Porta-Potty – One estimate from Dave's Septic = \$141.00/28 days

Parking

ARD field – The paved area to the right of the school can be used for parking.

Iris Pond – Need a town plow truck to clear the parking area at Bridge Park Rte. 3

Volunteers Park – Need a town plow truck to clear the parking area off Wall St.

Ice Maintenance

Parks and Rec. Dept. has a small tractor that can be used. It would need to be transported to any of the locations.

Risks

ARD Field or Volunteers Park

Minor Risks – Scrapes and bruises from falling while skating or from running into another skater.

Major Risks – Undetermined.

Iris Pond

Minor Risks – Scrapes and bruises from falling while skating or from running into another skater.

Major Risks – Falling through thin ice. Skating outside the roped area.

Ice depth will need to be monitored every few days.

Safe ice depths (NHoutdoors.com):

4 to 6 inches for a few well-spaced people.

6 to 8 inches for small groups on foot.

8 to 10 inches for snowmobile activities.

Insurance

Once the rink has been approved, The town administrator will call our insurance carrier, Primex, to add the skating park as a town facility.

Volunteers

The skating rink needs volunteers to purchase the equipment, and install and maintain the skating park.

Tasks That Need Volunteers

Iris Pond	ARD Field or Volunteers Park
<ul style="list-style-type: none">• Obtaining equipment to rope off the skating rink.• Removing snow and resurfacing the ice after each snowstorm.• Removing and store equipment at the end of season.	<ul style="list-style-type: none">• Obtaining equipment to build the skating rink.• Building the skating rink.• Filling the rink over several days.• Removing snow and resurfacing the ice after each snowstorm.• Disassembling the rink tarp, boards, and fasteners, and storing materials at end of season.

Sources of Volunteers

- Pembroke Academy students
- Allenstown and Pembroke residents

Concession Stand

If feasible, this will be used to serve coffee, hot chocolate, and snacks on Friday and Saturday nights.

- Large canopy or a food truck
- Portable power supply
- Possible organizations that will run this:

Allenstown Fire Association

Boy Scouts

Off-Season Storage

Need to identify an indoor location for storing rink materials off season.

Iris Pond – need storage space for highway barrels benches, and other items.

ARD Field or Volunteers Park – need a 10 x 15 ft. indoor storage space.

Appendix A.

Ice Skating Rink Parts and Materials

Armond Dupont Field Parts and Materials

Volunteers Park Parts and Materials

Skating rink is to be approximately 60 x 100 ft. A soil test of either location can determine whether a tarp is needed to contain the water during initial filling.

Commercial Skating Rink Packages

Two vendors, Nice Rink and EZ ICE, offer packages that contain all the parts needed for a do-it-yourself ice rink. While EZ ICE is more expensive, the labor to install it is significantly less.

Nice Rink

Web site: <https://www.nicerink.com/>

This vendor offered a 52 ft. x 104 ft package that included interlocking boards, support brackets, corner brackets, heavy duty liner fabric, bumper caps, resurfacer, and installation DVD.



NOTE: Brackets must be hammered into **soft ground** and then the boards can be fastened to them.

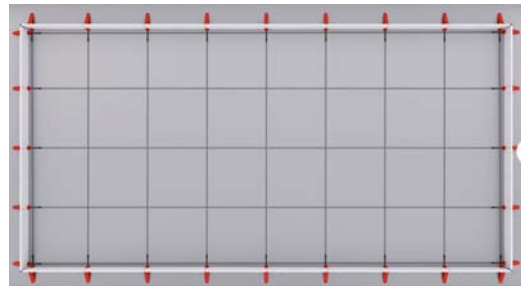
Estimated cost: \$4,834.65

EZ ICE

Web site: <https://ezicerinks.com/>



Side View



Top View

This vendor offered a 60 ft. x 100 ft. package that included interlocking panels, surface-mounted support brackets, corner brackets, heavy duty liner fabric, liner clips, adjustable straps, and installation DVD.

The frame can be mounted on soft or frozen ground. The vendor claims this is "The 60-minute backyard rink."

Estimated cost: \$6500.00

Bill of Materials for Homemade Rink

Discussions with the head of the Epsom Parks & Rec Commission allowed the following bill of materials to be compiled. Assembly would be labor intensive and require several people to complete. This method was put on hold after further investigation found two vendors who sold packages for temporary above-ground ice skating rinks.

Description	Source	Part No.	Qty.	Cost Ea.	Total \$
Tarp 60 ft. x 100 ft. for holding water. High Density Poly Weave Fabric- 10-12 Mil. Tarp is spread out to fill the interior of the 2x10 perimeter, and overlaps the 2x10s on all sides. Finished size is 6 inches smaller each side.	Tarps Plus Georgetown, TX ¹	TP- WPT60100-1	1	\$894.60 + \$119.21 shipping (On sale 10/24/18 was \$1342.00)	1013.81 Not needed for ARD Field
2x10 in. x 12 ft. PT lumber for sides of rink. Since tarp may not be a full 60 x 100 ft., perimeter should be about 3 feet shorter on all sides, that is, 57 x 97 ft., to allow a 1 1/2 ft. overlap on all sides and allow for eyebolts.	Lowe's/Home Depot		28	\$17.98	503.44
Tie plate, 7x3 1/8 in.	Lowe's /Home Depot		24	\$1.17	28.08
Ice & Water Shield strips (to cover inside board joints)	Donated		---	---	---
3 in. corner braces, powder coated	Lowe's /Home Depot		8	\$4.18	\$8.36
1x8 in.x12 ft. rough cut pine boards, to cover tarp inside 2x12 boards	Goosebay Sawmill		28	\$0.95/LF	319.20
1/2 -in. Routing Eyebolts, 1/2-13 x 4" long, eye diam. 1 in. Six eyebolts mounted on the outer face of each 2x10 with two near each end and two in the middle. Rebar goes through eyebolts to support boards. Drill 19/32 in. through hole.	McMaster-Carr ²	9489T38	168	\$8.67/5	294.78
For 3/8 in. eyebolts, like 9489T33, 3/8-16 x 4 in.	McMaster-Carr ²	9489T33		\$7.66/10	130.22
Steel Tee Nuts for wood, 1/2-13 thread, 19/32 in dia x 1/2 in. deep For 3/8 in. eyebolts, use 90975A031, 29/64 in. dia. x 1/2 in. deep	McMaster-Carr ²	90975A033 or 90975A031	168 or 168	\$13.58/20 or \$14.19/50	122.22 or 56.76

Description	Source	Part No.	Qty.	Cost Ea.	Total \$
Rebar Stakes GRD 60 #6 3/4 cut to 3 ft. (maybe 2 ft.) and sharpened at one end. Go though eyebolts on outer face of each board, 3 per board.	Cohen Steel Concord, NH	GRD 60 #6	168 ft.	2.30/3 ft. 14.75/20 ft.	125.00
Steel angle iron, 1 1/2 x 1 1/2 in. x 1/8 in. x 20 ft. for board tops.	Cohen Steel, Concord		320 ft 16 pc	15.99	255.84
1 1/2 in. galvanized screws, for fastening board caps to tops of boards and mending plates between boards.	Lowe's/Home Depot		2 lb.	10.00	10.00
Cost: Volunteers Park Rink					2450.90
Cost: ARD Field Rink (no tarp)					1423.90
Extras:					
Sign with Safety Rules	State Prison Shop		1	TBD?	?
6 ft. benches for changing footwear		2	\$50.00	\$100.00	100
Porta-Potty rental	Dave's Septic ²		1	141.00/mo	423.00
Total for Extras:					523.00+
Total: Vol. Park + Extras					2973.90+
Total ARD Field + Extras					1946.90+

¹ Order from <http://www.tarpsplus.com/white-tarp-60x100-single.html>

² Order from <https://www.mcmaster.com>

³ Cohen Steel, www.cohensteel.com, 10 Basin Street, Concord, NH, 225-2047

GRD60 rebar is stronger than needed but a softer grade not available from Cohen Steel..

² Dave Septic, Manchester (estimate)

Iris Pond/Bridge Park Parts and Materials

Skating area to be approximately 100 x 100 ft and located on the south edge of Bridge Park, sheltered from the main river current.

The police dept. has deemed this location to be the least safe and hardest to patrol.

Items	Source	Qty	Cost	Total \$
Highway barrels with base ring, every 25 ft.	AFTC, Hudson, NH ¹	10	\$65.50	\$655.00
Sign with safety rules	State Prison Shop	1	TBD	
Warning signs to be mounted on a few perimeter barrels.	State Prison Shop	2	TBD	
Life preserver safety buoy	Walmart Swimline 89870	2	\$23.67	\$47.34
Safety rope, 1/2 in. 100 ft. polypropylene	Lowe's, Item #349283	2	\$18.48	\$36.96
6 ft. benches for changing footwear		2	\$50.00	\$100.00
Porta-Potty rental	Dave's Septic ²	1	141.00	423.00
Total:				\$1262.30+

¹ AFTC, Hudson, NH, 888-400-2382

² Dave Septic, Manchester (estimate)