# NARRAGANSETT COUNCIL
# 2016 KLONDIKE DERBY

# SCOUT WARS


## BUCK HILL SCOUT CAMP

## FEBRUARY 13, 2016

# NARRAGANSETT COUNCIL

# 2016 KLONDIKE DERBY


## SCOUT WARS

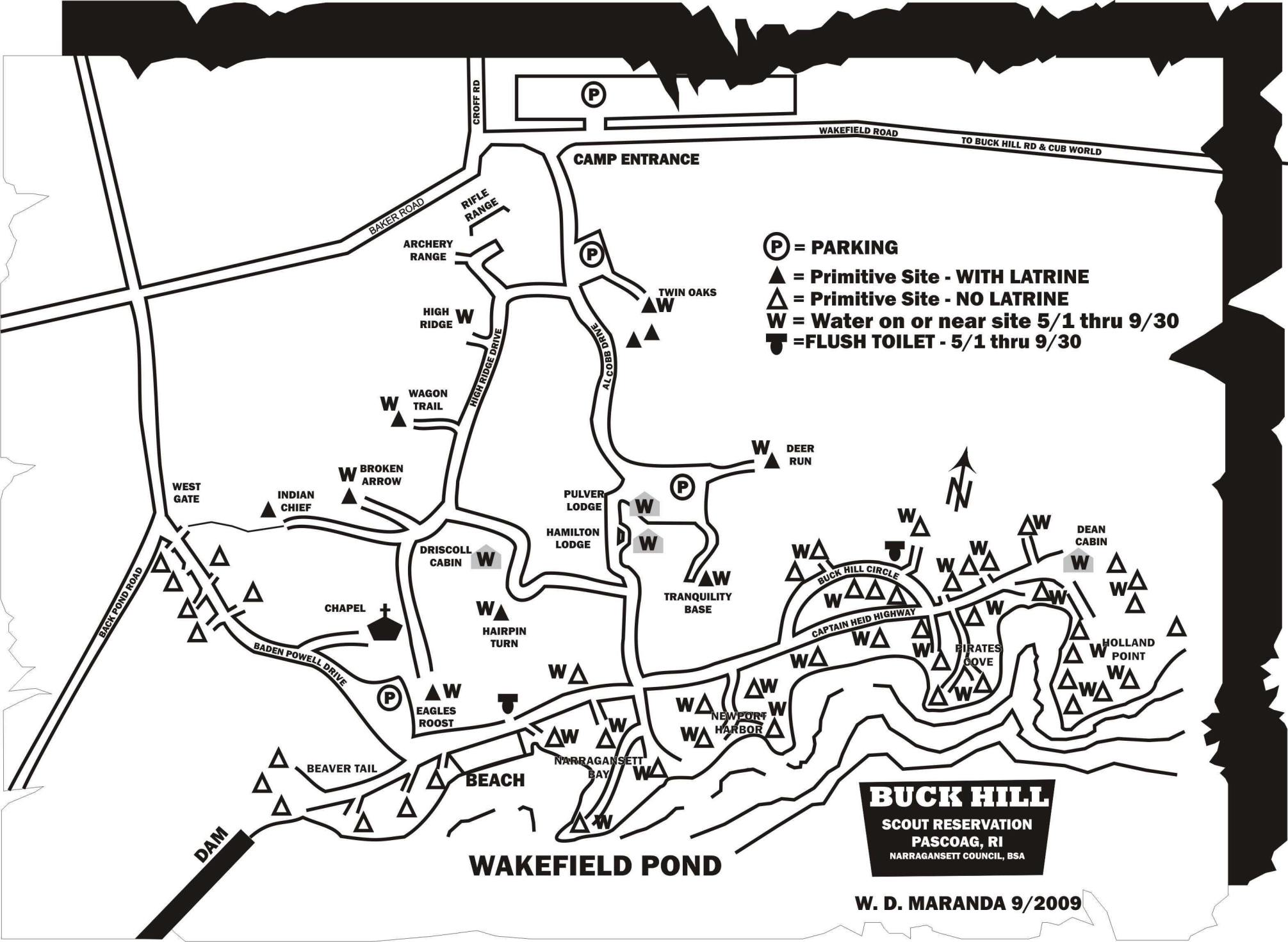

## Schedule

| | |
|---|---|
| 7:30 - 8:30 AM | Check-in |
| 8:30 AM (SHARP) | Opening Remarks |
| 8:45 AM - 3:00 PM | Stations Open |

*(Sled Inspections must be done at Station #16 during assigned time period)*

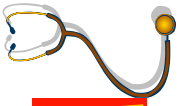
| | |
|---|---|
| 3:30 PM | Awards Presentation |
| 4:00 PM | Closing Ceremony |

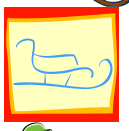
Please remember that you are Boy Scouts - Leave No Trace!
(Pick-up your trash)


CROFF RD
WAKEFIELD ROAD
TO BUCK HILL RD & CUB WORLD
CAMP ENTRANCE
BAKER ROAD
RIFLE RANGE
ARCHERY RANGE
HIGH RIDGE
HIGH RIDGE DRIVE
AL COBB DRIVE
TWIN OAKS
WAGON TRAIL
DEER RUN
BROKEN ARROW
WEST GATE
INDIAN CHIEF
PULVER LODGE
HAMILTON LODGE
DRISCOLL CABIN
TRANQUILITY BASE
DEAN CABIN
BUCK HILL CIRCLE
CAPTAIN HEID HIGHWAY
BACK POND ROAD
CHAPEL
HAIRPIN TURN
BADEN POWELL DRIVE
EAGLES ROOST
PIRATES COVE
HOLLAND POINT
NEWPORT HARBOR
NARRAGANSETT BAY
BEAVER TAIL
BEACH
DAM
WAKEFIELD POND
P = PARKING
▲ = Primitive Site - WITH LATRINE
△ = Primitive Site - NO LATRINE
W = Water on or near site 5/1 thru 9/30
=FLUSH TOILET - 5/1 thru 9/30
N
BUCK HILL
SCOUT RESERVATION
PASCOAG, RI
NARRAGANSETT COUNCIL, BSA
W. D. MARANDA 9/2009

# 2016 KLONDIKE DERBY
## Scout Wars

## Sled Checklist


Medical Forms submitted at Registration


Sturdy Sled in good condition


Scout Handbook (at least one per sled)


First Aid Kit (one per sled - minimum)

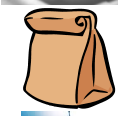

Sturdy Tarp - 5 ft. X 7 ft. minimum


(10) lO foot lengths of rope (that's right - 10)


Pad of Paper and Pencils (and/or pens)


Compass (at least one - the more the merrier)


Matches, Dry Tinder, and Kindling


Lunches and snacks (you be the judge)


Water bottles / Canteens (at least one quart per Scout) + 1 gallon of water


Large Trash Bag (All trash must be carried out)


Tools for repairs (a multi-tool is acceptable)


Proper Clothing - weather appropriate **(NO SNEAKERS !!!)**


Extra set of Dry Clothing - Be Prepared!

# 2016 KLONDIKE DERBY
## Scout Wars

### Notes for Station Leaders

Parking is limited; please CARPOOL as much as possible.

Please make sure the patrols stick to the schedule.

Some adjustment should be made to the scoring to accommodate for the Webelos - suggestions are on most scenarios.

Scout spirit should count as part of the score - how much is up to you.

Please read, or have the Patrol Leader read, the scenarios *each and every* patrol that participates at your station. We ask this every year because committee members have put in a lot of work to tie everything to the theme your cooperation is appreciated!!!!!

Please be prepared to the weather; with proper attire, {No SNEAKERS}.

If it is cold; please watch for signs of frostbite.

All stations will close at 3:00 PM sharp. Please tally the scores and bring the summary all score sheet and (1st - 3'd) to Hamilton Lodge as quickly as possible.

NO Pets!

Have Fun !!!!!!!!!!!!!!!!!!!!!

# 2016 KLONDIKE DERBY
## Scout Wars

### Notes for Scoutmasters


Parking is limited; please CARPOOL as much as possible.


Please! Turn in your registration forms (unit & individual) on time.

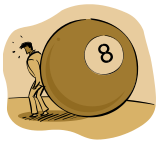

Medical Forms - Please have Medical Forms in a Packet/notebook/folder to turn in at registration.


Check-in is from 7:30 - 8:30 am - -please be on time!


Proper footwear required: NO SNEAKERS!


Please be prepared to the weather; with proper attire,


If it is cold; please watch for signs of frostbite.



There should be a maximum of eight Scouts/Webelos per Sled. Webelos should be distributed evenly amongst the unit's sleds.


All stations will close at 3:00 PM sharp. Please have all sleds gather at Hamilton Lodge parking lot for awards and closing.


NO Pets!


Station Leaders Meeting = Jan 13th & Feb 10th @Roundtable (7 PM). Each unit needs at least one representative.


Have Fun !!!!!!!!!!!!!!!!!!!!!!

# 2016 KLONDIKE DERBY - SCOUT WARS BUCK HILL

| *Station #* | Station Name | Station Host | Scoutmaster |
|---|---|---|---|
| (Twin Oaks) | | | |
| 1 | Ladder Building | | |
| 2 | Survival Shelter | | |
| 3 | A-Frame Race | | |
| 4 | Tomahawk Throw | | |
| 5 | Fire Building | | |
| 6 | One-Handed Bowline [Kiwi Hut] | | |
| 7 | Bean Spit [Wanna-Hawk-A-Luigi] | | |
| 8 | Archery | | |
| (Hamilton) | | | |
| 9 | First Aid Rescue | | |
| 10 | Military Phonetic Alphabet | | |
| 11 | Choose Your Gear | | |
| 12 | Height Measure | | |
| 13 | Throw a Half-Hitch [Kahawai's Crossing] | | |
| 14 | Blow Gun | | |
| 15 | Puzzle | | |
| 16 | Sled Check | | |
| (Dean) | | | |
| 17 | Taught line, Half & *Two ½ Hitch's* | | |
| 18 | Bear Bag Tie [Save the pineapples from the TikiYeti] | | |
| 19 | Obstacle Course | | |
| 20 | Monkey Bridge | | |
| 21 | Blind Search | | |
| 22 | Team Drag | | |
| 23 | Tripod Lashing | | |
| 24 | Team Ice Rescue [Hau Ho'opakele] | | |
| 25 | Animal Tracks | | |
| 26 | 3 Legged Race (Whole Sled must be Included) | | |
| (Beach) | | | |
| 27 | Orienteering | | |
| 28 | Knot Tying | | |
| 29 | Memory Game [Hawaii-Five-O I can't Remember] | | |
| 30 | Surf Board | | |
| 31 | Astronaut Training | | |
| 32 | Ski Race | | |
| 33 | Football Toss | | |
| 34 | Team Saw | | |
| 35 | Post & Retire the colors. (Including folding flag) | | |

# 2016 KLONDIKE DERBY
## Style

| | Time | | | |
|---|---|---|---|---|
| Area | 8:45 am – 10:30 am | 10:30 am – Noon | Noon – 1:30pm | 1:30 pm – 3:00 pm |
| Twin Oaks<br>Station 1 - 8 | Group 1 | Group 4 | Group 3 | Group 2 |
| Hamilton<br>Station 9 -16 | Group 2 | Group 1 | Group 4 | Group 3 |
| Dean<br>Station 17 -26 | Group 3 | Group 2 | Group 1 | Group 4 |
| Beach<br>Station 27 - 35 | Group 4 | Group 3 | Group 2 | Group 1 |

2016 KLONDIKE DERBY

# "Title"

Scenario

A short story of your station

Objective

The winning end result. Example: you will be timed on your mission or the first team to completely finish the challenge and in the shortest time, must pieces sawed in a 3 minute period, etc.

Procedure

How they will achieve their goal. Example: You must lite the fire and burn the sting completely threw. You must find 3 compass point using these co ordinance, etc.

Materials

Example: fire wood, string to burn, or a compass course set up with 3 locations and co ordinance, etc.

Note to Station Leader

any notes to pass to your station assistants. Remember every sled must have the same experience every time for it to be fair in scoring

Scoring

Example: you will be scored by shortest time as a sled. The first sled to boil water in the shortest time. etc.

# Klondike Sled Project

By Steven Maxwell • Illustrations by Len Churchill

Cross-country sled races deliver adventure, endurance and a wilderness challenge. And these plans are your ticket to that world. This sled is specially designed for Klondike Derby races in which boys—not dogs—provide the pulling power. Even though this sled is fast and strong, you don't have to be a master carpenter to build it. Cost of materials is about $100.

### How to Use These Directions

The instructions are divided into four parts: Building the Runners, Installing the Floor, Adding the Rails, and Finishing Up. Read everything at least once before you begin so you know how it all fits together. Then focus on each section as you work. Also, be sure to read "Prepared for Safety," which follows. What's the point in building a Klondike sled if you get hurt in the process?

### Building the Runners

The runners take more punishment than any other part of the sled. That's why they need to be made of tough wood. Ash is the material of choice here—the same wood used for snowshoes and old-time cross-country skis. It's tough and flexible, and the open grain holds wax well—an important detail that'll help win races.

If you can't find ash lumber where you live, oak, maple or hickory are good, too. Just don't use pine, cedar or any wood soft enough to be dented easily by your thumbnail. These are fine for other parts of the sled, but softwood won't last long as runners or runner blocks.

When professionals build dogsleds they cook the ends of the runners for about an hour in special steam cabinets, then clamp the softened wood to form curves when it cools. Sound complicated? It's really not. Since you need to curve only the ends of your runners, you can easily make your own steam cabinet using short lengths of galvanized duct pipe and an electric kitchen kettle. The plans show how. Make sure an adult is on hand to help you.

There's another option for runners. The plans show how to slice partway through the ends of the runners to make the wood flexible without steaming. This is called kerf bending, and it works O.K., though it does weaken the runners. They don't look as cool, either. Use this method only if nothing else is possible.

The fastest, easiest way to get your sled on the snow is to use a pair of old downhill skis as runners. Even though they're usually made of fiberglass, skis can still be drilled and fastened easily to the rest of the sled. They're tough, too.

With runners ready, it's time to drill them for the No. 12 x 2-inch screws that fasten them to the runner blocks. The plans show where each block goes and how the screws are positioned. Because they're hardwood, you'll need to create pilot holes using a 5/32-inch-diameter drill bit, to ease the entry of the screw. The plans show how to use screws as they extend through the runners to mark the runner blocks for accurate drilling. Also see "Drilling and Gluing" for more help.

**DID YOU PAY?**

These plans are available on the *Boys' Life* Web site (www.boyslife.org) as an Adobe Acrobat PDF file, for downloading. Cost: $10 per copy. Payment is on the honor system. Failure to pay - whether for a PDF file, photocopy or any other duplication of the plans - limits the magazine's ability to create other exciting, professionally-designed projects (not to mention a lifetime of guilt, and a sled doomed to last-place finishes and certain structural failure). Please remit to: Boys' Life Snow Sled Plans, P.O. Box 152079, Irving, TX 75015-2079.

### Installing the Floor

At this stage, you have two separate runners with four blocks attached to the top of each one. Now it's time to join these into a single unit using the four main floor supports. Cut these to length, then drill screw holes and fasten them to the runner blocks using glue and just one No. 10 x 1 3/4-inch screw per joint. Even though the front floor support is the same size as the other floor supports, leave it off for now. The plans show how the edge of the front floor support needs to be angled a bit, but that's a job for later.

Pretty easy so far, right? Don't get too confident because there's trouble lurking ahead, something that could make your sled crooked if you don't avoid it. Luckily, there's a slick trick to do just that:

With the two runners joined by the four floor supports, measure the length of diagonal distances taken from the outer corner of one floor support to the diagonally opposite corner of another. The plans show how. If your growing sled is square, then these measurements will be equal. Trouble is, they're probably not going to be, though that's no reason to panic. Remember how you put only one screw in each joint? That lets you push and pull the runners until diagonals are equal, plus or minus 1/8 inch. Once they are, the base of your sled is square. You can count on it! Now add the second

screw to each joint to lock everything in place. Then fasten the floor boards with glue and screws.

The plans include a close-up view of how the front floor support, floor boards and runners come together. Take a close look at this now. You'll need to use a hand plane to angle the leading edge of the front floor support so the floor support and runners are in full contact where they meet. This is the hardest part of the project, but even this isn't a big deal. The plans show the angle to be about 35 degrees, but it will vary depending on the curvature on the ends of your runners. When all looks good, clamp the front floor support in place and drive screws through the runners into it. More screws will be added later through the sloped top rail to secure the floor boards.

### Adding the Rails

The sled's rail assembly is made of 8 uprights, 2 angled tops, and a hand rail. Like everything else on the sled, these parts fit together in strong, simple ways with screws and glue. Cut the four kinds of rail uprights you'll need now—two of each type—then fasten them to the runner blocks, straight up and down, with glue and two screws per joint. The rail uprights are listed longer than necessary so you can trim along the sloped top rails with a handsaw to remove a triangular block of waste after installation. Follow the plans for the location of these parts and fasten them now. You may be tempted to trim all the rail uprights now, but don't do it. Trim only the back rail uprights so you can install the rail handle, also using screws and glue. Leave the other rail uprights until the glue dries.

### Finishing Up

Your sled's looking pretty good by now, right? But there are still a few things to take care of. The plans show the two 5/8-inch-diameter holes you'll need to drill through the floor boards, behind the front floor support, for the tow rope. You should also sand the sharp corners off the rail handle and sloped top rails, so no one gets slivers. Painting or varnishing your sled is optional. It'll look better if you do, but it is a lot of work, and it won't make the sled last any longer. Whatever you do, don't coat the underside of the runners. See "Wax Works" below for a speed-demon trail-tip.

### PREPARED FOR SAFETY

Woodworking is fun—it may even become your career one day—but there's one thing you must remember. Always be careful. You must wear safety glasses when using any wood-working machinery, even if an adult is helping you. And don't forget ear protection. Earmuffs or foam earplugs work fine. And if you're ever uncertain about how to use any tool, ask for help.

### WAX WORKS!

You can build the best sled in the world, but it'll never win races unless you've treated the runners right. It's a make-or-break detail, and wax is the key. The best kind is cross-country ski wax—the hardest type you can find, rated for 30 degrees below zero temperatures. Rub the wax onto bare-wood runners (not varnished) when the sled's indoors, smoothing the surface with a piece of cork to get rid of the lumps. Your runners won't feel slippery after this, but that's O.K. Once they get outside, on the cold snow, they'll slide along the trail like a lightning bolt. And the guys pulling will certainly appreciate that. Just remember to let your sled cool down before setting it in the snow. Warm runners can melt snow, forming water droplets that freeze, making the runners rough and slow.

### DRILLING AND GLUING

Glue and screws hold this project together, and both are easy to use if you understand a few key points. First of all, don't use ordinary white, yellow or brown carpenter's glue on this project. They're great for indoor projects but are guaranteed to turn to mush when they get wet outside. Even some brands rated as water-resistant on the label won't last long if the snow turns to slush. What you need is something called type II wood glue. It's weatherproof and available under brand names like Titebond II and Weathertite. Polyurethane glue works well outdoors, but it's more expensive. Drilling screw holes is always more accurate if you hammer a nail lightly into the wood before you bore each hole. This makes a little crater so the drill bit won't wander off the mark as the bit starts spinning. After drilling holes in the runners you'll need to flare out the bottom end with something called a countersink bit chucked into your drill. This creates a cone-shaped pocket for the screw head, so it doesn't extend below the underside of the runner and drag on the snow. Holes drilled in soft wood parts don't need to be countersunk because the screws draw themselves level with the surrounding wood.

# Materials List

### FOR THE RUNNER ASSEMBLIES

| | | |
|---|---|---|
| **RUNNERS** | hardwood 1/2"-thick x 3 1/2"-wide x 89"-long | 2 |
| **RUNNER BLOCKS** | hardwood 1 1/2" x 3 1/2" x 3 1/2" | 8 |

### FOR THE FLOOR

| | | |
|---|---|---|
| **FLOOR BOARDS** | softwood 3/4" x 3 1/4" x 73" | 5 |
| **MAIN FLOOR SUPPORTS** | softwood 3/4" x 3 1/2" x 18" | 4 |
| **FRONT FLOOR SUPPORT** | softwood 3/4" x 3 1/2" x 19 1/2"* | 1 |

### FOR THE RAIL ASSEMBLY

| | | |
|---|---|---|
| **SLOPED TOP RAILS** | softwood 3/4" x 3 1/2" x 82" | 2 |
| **RAIL HANDLE** | softwood 3/4" x 3 1/2" x 19 1/2" | 1 |
| **FRONT RAIL UPRIGHT** | softwood 3/4" x 3 1/2" x 14" | 2 |
| **SHORT MIDDLE UPRIGHT** | softwood 3/4" x 3 1/2" x 22" | 2 |
| **LONG MIDDLE UPRIGHT** | softwood 3/4" x 3 1/2" x 31" | 2 |
| **BACK RAIL UPRIGHT** | softwood 3/4" x 3 1/2" x 40" | 2 |

*Trim front edge to fit curve of your runners, about 35 degrees.