

CHAPTER 11. PROTECTION AND SAFETY OF SPECTATORS AT SNOWMOBILE RACES

11.01 Definitions.

When used in these regulations, unless otherwise specifically provided, the following words and terms shall have the following meaning:

- A. Commissioner.** “Commissioner” means the Commissioner of the Department of Inland Fisheries and Wildlife.
- B. Bleacher.** “Bleacher” means an uncovered structure of tiered planks providing seating space for spectators.
- C. Stadium.** “Stadium” means a permanent unroofed structure with tiers of seats for spectators.
- D. Grandstand.** “Grandstand” means a permanent roofed structure with tiers of seats for spectators.
- E. Race or Racing.** “Race” or “Racing” means an unorganized competitive race of speed and skill or endurance and includes all types of snowmobile racing, whether or not the race is held on snow..

11.02 Authority

No person shall conduct any type of snowmobile racing unless the applicable provisions of these regulations have been complied with and unless the person conducting the snowmobile racing has filed with the Commissioner a certificate signed by an architect registered under the provisions of Chapter 3-A of Title 32 or by a professional engineer registered under the provisions of chapter 19 of Title 32 certifying that all applicable provisions of these regulations have been complied with.

11.03 Construction of Grandstand and Stadiums

Grandstands and stadiums shall be erected upon and attached to concrete or masonry foundations extended below the maximum depth of frost in the area where the structure is located and at least 6 inches above natural grade. They shall be designed to support, in addition to their own weight, a uniformly-distributed live load of not less than 100 pounds per square foot of gross horizontal protection of the grandstand. All seats and footboard members shall be designed for live loads of not less than 120 pounds per linear foot. They shall be designed to resist, without live load.

11.04 Bleachers

Bleachers shall be provided with wood sleepers or mud sills of at least 2 inch planks, or shall be supported on masonry footings. If the Commissioner so directs, sill shall be placed both parallel and at right angles to seating platforms.

All bearing surfaces shall make contact as the Commissioner shall direct. Mud sills or sleepers shall be of adequate area to support superimposed loads without settlement and shall be secured against lateral movement. The toe of each stringer shall be secured to the mud sills or sleeper, all horses or posts shall be secured against movement, and adequate sway bracing shall be provided as directed by the Commissioner. No more than one cantilever seat shall be permitted.

11.05 **Aisles**

Grandstands, bleachers and stadiums shall be provided with aisles which shall be located as directed by the Commissioner. Aisles shall be not less than 3 feet 6 inches in width, provided, that where an aisle is divided into two parts, each part shall be secured against lateral movement. The toe of each stringer shall be secured to the mud sills or sleeper, all horses or posts shall be secured against movement, and adequate sway bracing shall be provided as directed by the commissioner. No more than one cantilever seat shall be permitted.

11.06 **Seats and Seating Platforms**

Seats of grandstands, bleachers, stadiums and other similar structures shall be securely fastened to their support in such a manner that they cannot accidentally be displaced. Foot rests shall be similarly fastened. Where seats are not divided or marked off, a width of 18 inches shall be considered one seat.

11.07 **Exits**

Grandstands, bleachers with 15 or more rows of seats and stadiums shall be provided with exits, calculated on the basis of 1 foot in width for each 300 persons, or fraction thereof served. Exits shall not be less than 3 feet 6 inches in width, nor less than 7 feet clear height and shall be located as directed by the Commissioner. Each exit shall be designated by a sign bearing the word **EXIT** in letters not less than 5 inches in height and one-half inch in width, having red letters on a white background, or white letters on a red background, located as directed by the Commissioner, and each change in direction of a way of egress shall be designated by a directional sign to be located as directed by the Commissioner.

11.08 **Illumination of Exits and Aisles**

Spectator areas, including grandstands, bleachers and stadiums, shall be properly illuminated at all times when the area is in use, during the period of from one-half hour after sunset to one-half hour before sunrise and during any period of time when by reason of atmospheric conditions, visibility is such as to require artificial illumination.

11.09 **Protective Railings**

Rails at least 18 inches in height shall be provided along the back of grandstands, bleachers, stadiums and other like structures if the rear seat is more than 4 feet above the ground; along the portions of the ends of the structures where the seats are more than 4 feet above the ground and along the front of the structures if the foot rest is more than 2 feet above the ground.

11.10 **Fire Extinguishers**

Fire extinguishers shall be available in pit areas, spectator areas and track areas at all times in a number and location to be determined by the Commissioner.

11.11 **Spectator Protection**

There shall be areas designated by appropriate signs as spectator areas at all snowmobile races in which spectators shall at all times be confined. The spectator areas shall include, but not be limited to, grandstands, bleachers, and stadiums. The pit areas, practice areas, those areas specified in Figures 1 and 2, infield areas, and corner areas of race tracks are not spectator area. At snowmobile drag races, only one side of the track may be designated as spectator area. Spectator areas shall be protected by utilizing safety barrier construction of either Option 1 or Option 2, contained herein.

If Option 1 is used, spectators shall not be allowed beyond the spectator protection fence and shall not be allowed access to the trackside fence or to the area between the spectator protection fence and the trackside fence; if Option 2 is used, spectators may be allowed access to the trackside fence. The snowmobile race track surface must be maintained in a manner that does not permit any snow build-up against the trackside fence.

11.12 **Safety Barrier Construction**

Safety barrier construction of snowmobile race tracks of any type shall conform to one of the following options and shall be constructed in a manner described herein and Figures 1, 2, 3, 4, 5 and 6 as appropriate. Figures 1, 2, 3, 4, 5 and 6 and the specifications contained therein are incorporated herein and made a part thereof.

OPTION 1 – WOVEN WIRE OR SNOW FENCE

1. **General**

When this option is utilized, spectators shall be protected by using parallel fence construction to consist of two separate fences; one fence to be located against the

edge of the track, to be called the trackside fence and another located at least 6 feet or more from the trackside fence, in a direction away from the race track, to be called the spectator protection fence. The area between the fences shall be kept clear. Either woven wire or snow fence shall be used, but each separate fence shall be constructed with only one type of fencing. The woven wire or snow fence shall be attached to either metal or wood posts as specified herein. Post lengths shall be as shown in Figure 3.

2. **Materials**

All materials used in the construction of the fences specified shall conform to the following specifications:

- a. **Snow fence.** Pickets shall be cedar, seasoned before the fence is woven, shall be straight grained and free from large knots. They shall be 4' 0" high, 1-1/2" wide and 3/8" thick. The connecting wires shall be 5 double strands of 12-1/2 American gauge galvanized wire evenly spaced. The spacing between pickets shall not exceed 2 inches.
- b. **Woven wire fence.** Woven wire shall be standard galvanized farmfield fence, design number 1047-12-11. The wire shall be 47 inches high, having 10 horizontal wires of which the top and bottom wires shall be of 9 gauge and the intermediate wires of 11 gauge; and vertical stay wires of 11 gauge spaces at 12 inches.
- c. **Metal posts.** End, intermediate, and corner posts shall be 2-1/2" X 2-1/2" X 1/4" angle or 2" nominal diameter galvanized steel pipe, minimum weight of 3.65 lbs. per foot. Braces shall be 1-3/4" X 1-3/4" X 1/4" angle or 1-1/4" nominal diameter galvanized steel pipe, minimum weight of 2.27 lbs, per foot. Line posts shall be standard studded "T" posts with minimum weight of 1.12 lbs per foot. Post lengths shall be as shown in Figure 3.
- d. **Wood posts.** Wood posts shall be cedar, white oak or tamarack. They shall be of seasoned stock, straight and sound, and shall have been cut from live growing trees. They shall have all knots trimmed flush with the surface. Post diameters shall conform to the following: End, intermediate and corner posts shall have a minimum diameter of 4 1/2" at the small end. Braces shall have a minimum diameter of 3" at the small end. Line posts shall have a minimum diameter of 3".

3. **Installation**

- a. **General.** The fence shall be installed as shown in Figure 3, in conformity with these specifications, except that only the front (trackside) fence shall be required to have end, corner, or intermediate posts set in Portland cement concrete. At the time of racing the top of the fence shall be at least 3' 6" above the track surface.

- b. Posts.** Holes for wood posts shall be dug to full depth as appears in Figure 3. Metal posts shall be set by means of a hand or mechanically operated post driver. An intermediate post shall be installed at least every 100 feet. Posts shall be set on 10 foot centers.
- c. Bracing.** Bracing shall be installed at all end, corner and intermediate posts as shown in Figure 3.
- d. Erection of snow or woven wire fabric.** Fencing shall be stretched taut. For snow fence all strands of wire shall be attached to each post. For woven wire fence the top and bottom strands of wire shall be attached to each post and then alternate interior strands of wire shall be attached to alternate posts. Splicing of the wire shall be permitted at posts only and each horizontal strand of wire shall be wrapped completely around the post. The wire strand shall be securely fastened by winding the end of the wire about the same strand where it leads up to the post. This type of fastening shall be used at each end and the corner post. Staples for wood posts shall be fully driven into corner, end or bracing posts but at line posts they shall be driven so as not to restrict the horizontal movement of the wire.
- e. Baled hay.** The trackside fence shall be buffered by at least two parallel layers of baled hay at least 3' 0" high as shown in Figure 4. The baled hay shall be laid lengthwise along and directly against the fence. The baled hay shall be tightly baled and shall be replaced when damage or when its condition is such that in the judgment of the Commissioner it will not accomplish the purpose of buffering the trackside fence.
- f. Rub-rails.** As an alternative to buffering by baled hay, run-rails may be installed on the trackside fence as specified in Figure 6. Run-rails and splice plates shall be of dry and well seasoned No. 2 common grade stock of northern white pine, Norway pine, or No. 1 construction grade of eastern spruce, eastern hemlock, or tamarack, and shall be dressed on all sides. The dressed dimensions shall be 1 5/8" X 9 1/2" and of a length indicated in Figure 6.

OPTION 2 – 60 INCH CHAIN LINK FENCE

- 1. General.**
When this option is utilized, spectators shall be protected by using a single chain link fence to be located against the edge of the track and called the trackside fence. The fence shall be attached to metal posts as specified herein and installed as specified in Figure 5.
- 2. Materials.**
All materials used in the construction of the fence specified shall conform to the following specifications:

- a. **Chain link fabric.** Chain link fabric shall be standard zinc or aluminum coated steel. It shall be 2" mesh, fabricated from No. 9 gauge wire. The fence shall be 60" high.
- b. **Posts.** End or corner posts shall be 2" nominal diameter galvanized steel pipe, minimum weight of 3.65 lbs per foot or 2-1/4" X 2" steel "H" section, minimum weight of 4.10 lbs per foot. Line posts shall be nominal 1-1/2" diameter galvanized steel pipe, minimum weight per linear foot = 2.70. Brace tubes shall be nominal 1-1/4" diameter galvanized sheet pipe, minimum weight of 2.27 lbs per foot. Post lengths shall be as shown in Figure 5. Posts shall be set on 10 foot centers.
- c. **Erection of chain link fabric.** The top rail shall pass through the post caps and shall be securely fastened to end, corner and brace posts. Joints in the top rails shall be made with expansion sleeve couplings. The fabric shall be pulled taut and the ends attached to the posts with stretcher bars and bands. When required, rolls of wire fabric shall be joined by weaving a single strand of mesh wire into the ends of the rolls to form a continuous mesh.

11.13 **Location of Safety Barriers and Fencing**

All safety barriers and fencing shall extend the entire length of and not less than 25 feet beyond each side of all grandstands, bleachers, stadiums, other similar structures and any other designated spectator area. In addition, the safety barriers and fencing shall extend toward the rear of any such structures of designated spectator areas, at right angles to the race track a distance of at least 50 feet, as in Figure 1 or 2 as appropriate.

11.14 **Law Enforcement Officers**

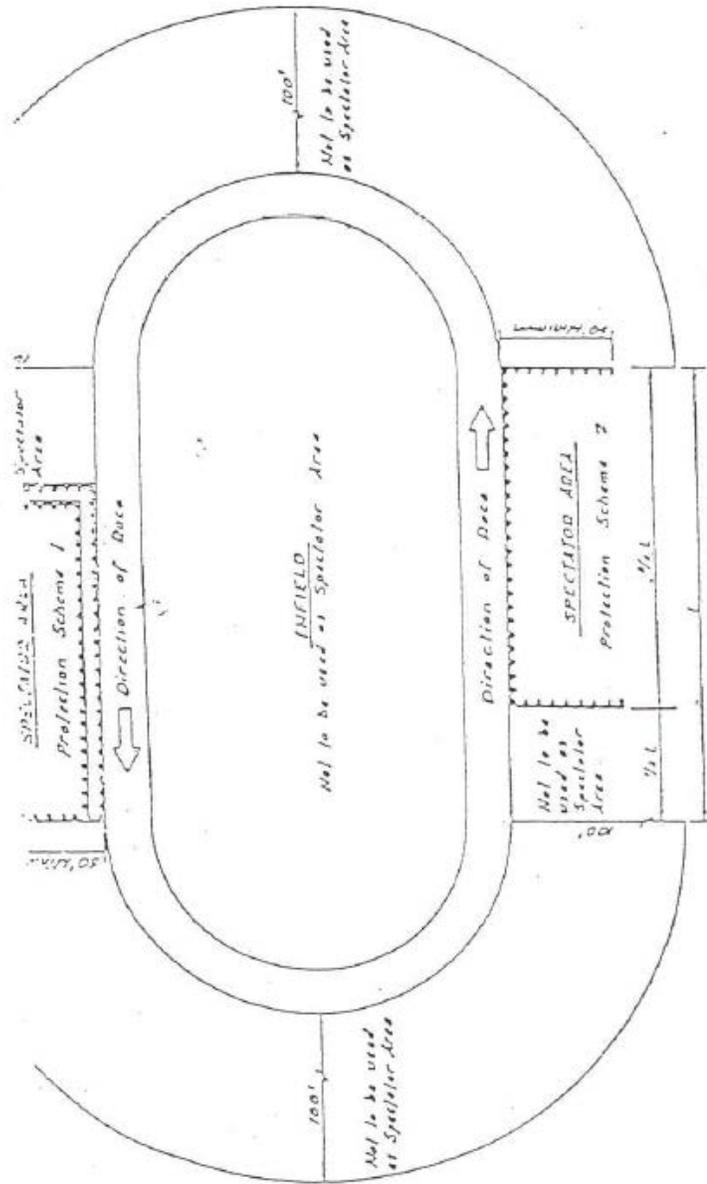
Persons conducting any type of snowmobile racing shall make arrangements to have law enforcement officers present at all times when snowmobile racing is in progress.

11.15 **Waiver.**

The Commissioner may waive, in writing, prior to a snowmobile race, any or all of the requirements of these regulations to cover any special circumstances, conditions or locality.

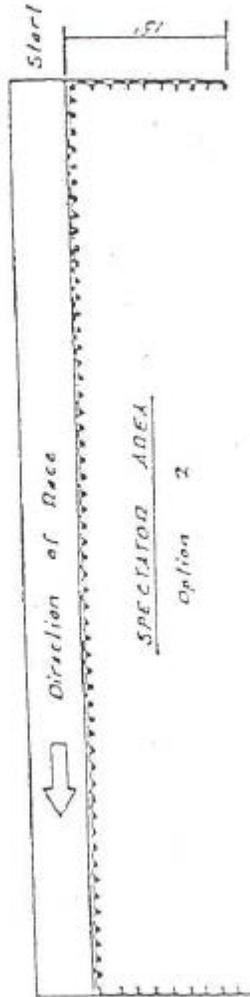
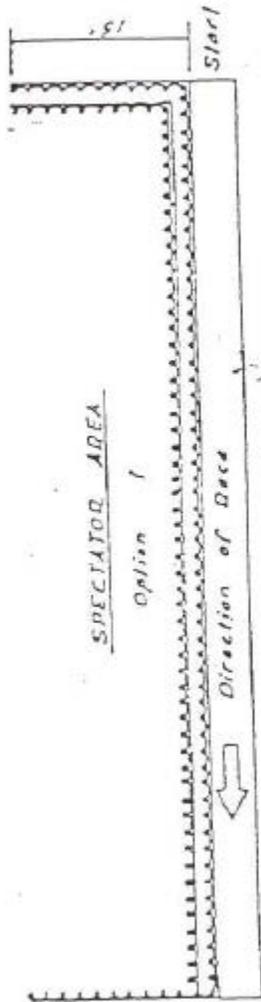
AUTHORITY: 12 MRSE, § 7035, § 7827.

PAGES 7 TO 13 SHOW ILLUSTRATIONS



Regulation No. 1.
 Regulation relating to structures for the
 protection and safety of spectators during
 automobile racing promulgated by the
 Department of Inland
 Fisheries and Game.

FIGURE 1

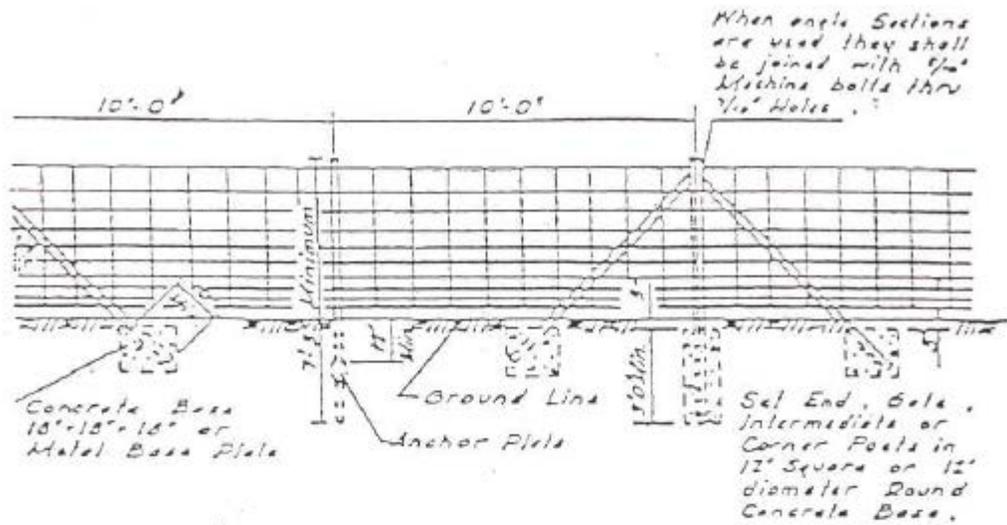


Note: If the fencing in either Option 1 or 2 is moved ahead of the Starting Line the 15 ft. Extension shall be increased to 100 ft. The Fencing need be constructed on one side only.

SNOWMOBILE DRAG RACE TRACK

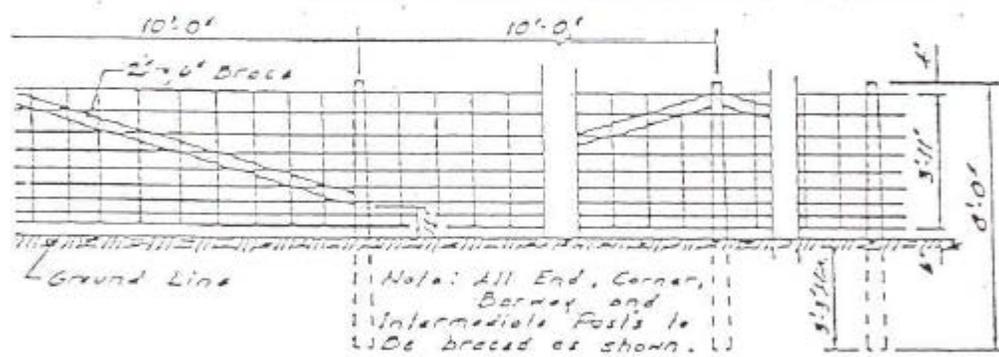
FIGURE 2

Regulation No. 1,
 Regulation relating to structures for
 protection and safety of spectators
 during snowmobile racing promulgated
 by the Commissioner of the Department of
 Inland Fisheries and Game.



TE POST LINE POST INTERMEDIATE OR CORNER POST
 • 7'-9" Min Length = 7'-3" Min Length = 7'-9"

2 WOVEN WIRE FENCE -- METAL POSTS



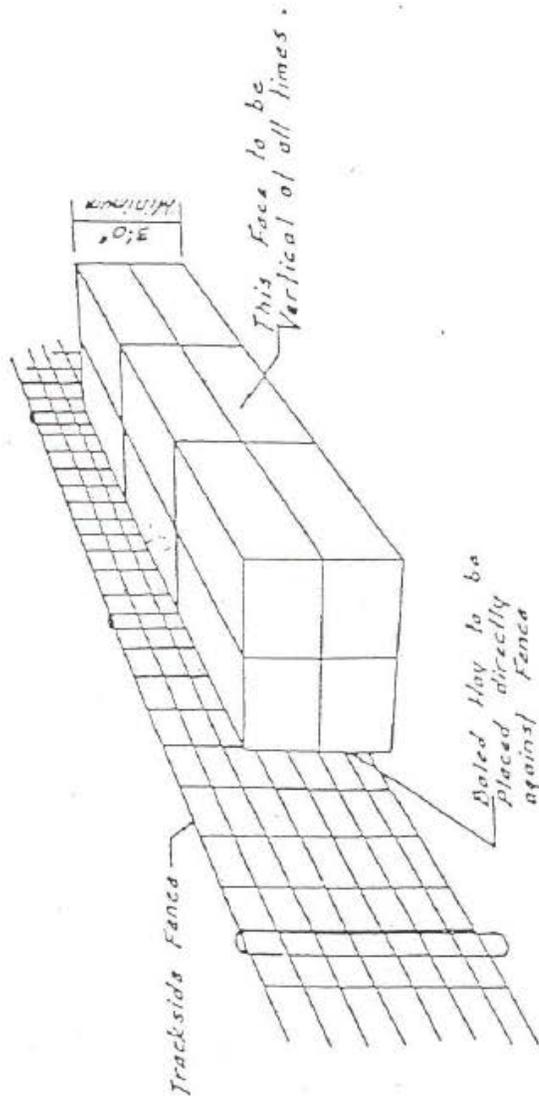
Note: Minimum length of all Posts 6'-0"

TE POST INTERMEDIATE OR CORNER POST LINE POST

2 WOVEN WIRE FENCE -- WOOD POSTS

Regulation No. 1.
 Regulation relating to structures for the protection and safety of spectators during snowmobile racing promulgated by the Commissioner of the Department of Inland Fisheries and Game.

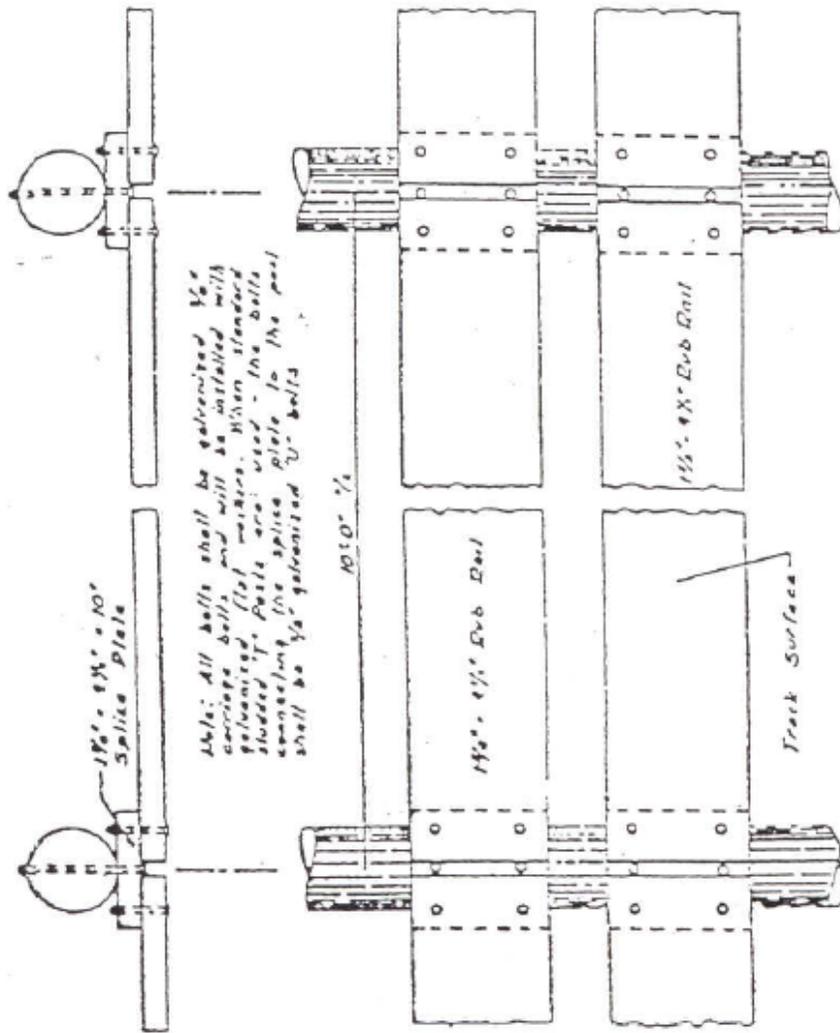
FIGURE 3



BALED HAY DIAGRAM

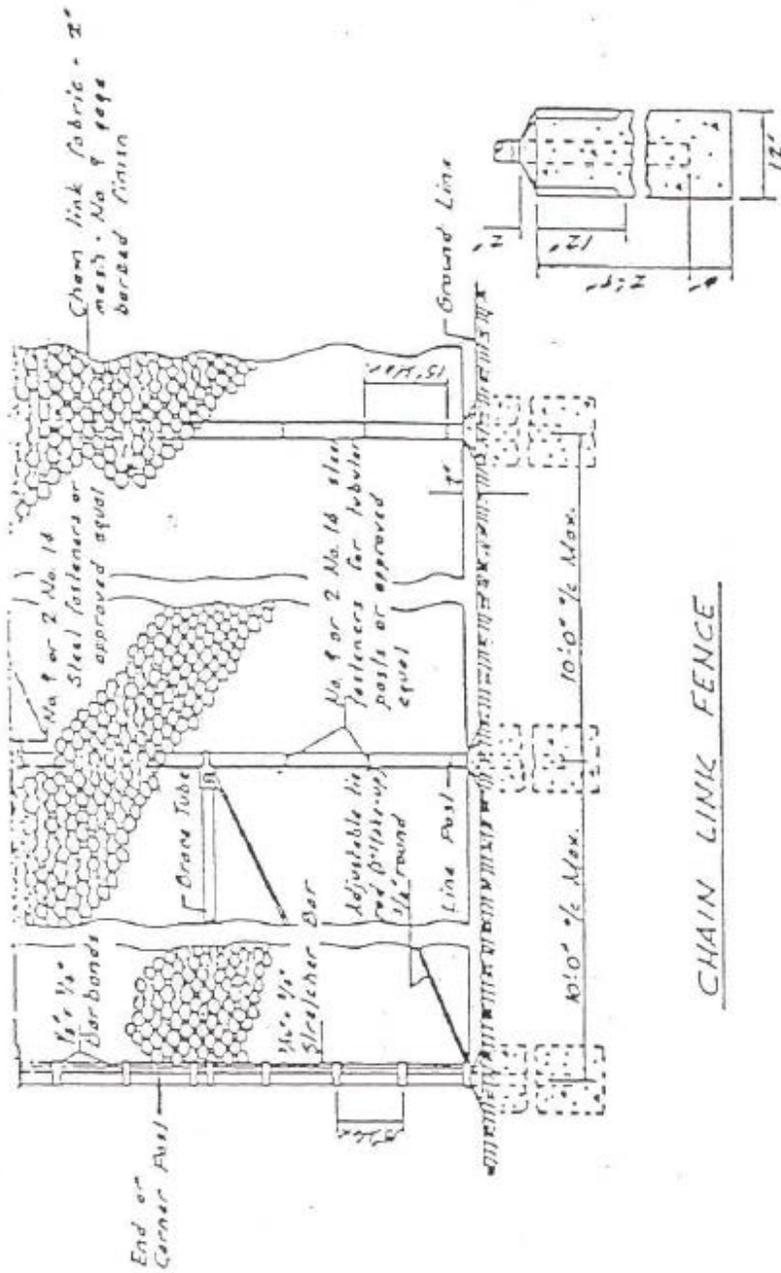
Regulation No. 1,
 Regulation relating to structures
 for the protection and safety of
 spectators during snowmobile racing
 promulgated by the Commissioner of the
 Department of Inland Fisheries and Game

FIGURE A



Regulation No. 1
 Regulations relating to structures for the
 protection and safety of operators during
 hazardous working provided by the Chairman
 of the Department of Industrial Hygiene and Com-

FIGURE 6

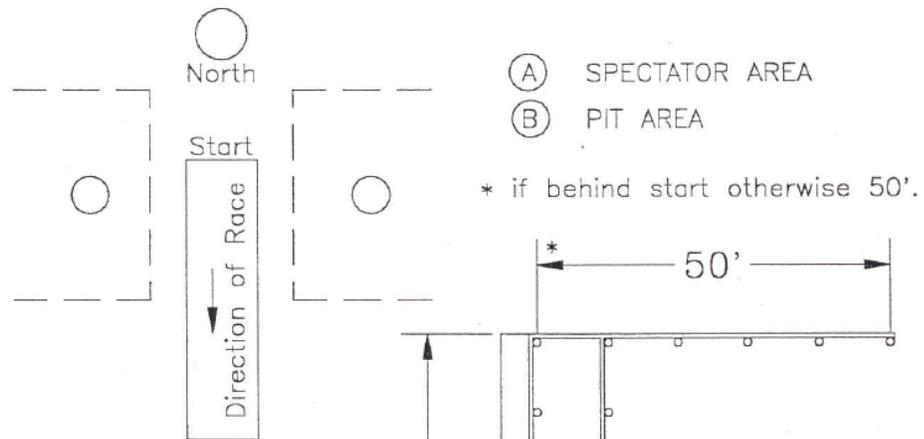


CHAIN LINK FENCE

Regulation No. 1.
 Regulation relating to structures for the
 protection and safety of spectators during
 automobile racing promulgated by the Commissioner
 of the Department of Inland Fisheries and Game.

FIGURE 5

DRAG/RADAR RUN TRACK



NOTES:

1. TRACK DELINEATED BY TRAFFIC CONES.
2. SIGNS DIRECTING SPECTATORS TO SPECTATOR AREA.
3. RADIO EQUIPPED STAFF PATROLLING AREA.
4. FENCING PLASTIC SNOW FENCE.
5. BARRIER TIRES OR HAY BALES.
6. CEDAR POSTS SET IN ICE.

DIRECTIONS:

1. Indicate direction of north in circle.
2. Identify spectator and pit areas.
3. Indicate width of spectator area.
4. Show location of fire extinguishers with "x".

CLUB:
 LOCATION(attach map):
 DATE OF RACE:
 AUTHORIZED SIGNATURE: