

Guidance to Operators Regarding State Forest Road Signs

Bureau of Forestry access roads are administrative roads constructed and maintained primarily for the purpose of fire protection, administration, and utilization of state lands and/or facilities. These roads vary from main travel to minimum standard low speed, low-volume routes. They are open to the public to provide access to the state forest for outdoor recreation opportunities and can be closed by the Bureau at any time, thus are not considered "public highways."

With the passage of Act 9, many natural gas access roads have been or are in the process of being named in order to have the emergency signage as close to the well pad as possible. Traditional state forest road name signs now need to be installed for each of the new access roads. The Operator will be responsible for the manufacturing and installation of the road signs. These signs will aid county emergency responders in their ability to locate these new access roads and associated well pads.

Please provide to the District Forester for approval, a template or example of the road sign design and the proposed location of all new signs. In addition, please consult with the District Forester to determine if there may be any variations from the following specifications.

Specifications:

- Signs will be constructed of wooden stock, primarily **red or white oak** and pretreated with latex or acrylic stain. The signs will be **1 ½** inches thick by the proper length and width as according to the road name and proper lettering spacing.
- Wooden posts are to be 4 by 4 inches and pressure treated
- Road sign height should be approximately at eye level with the motorist. As a general rule, height should be **40"** from ground level to the middle of the sign.
- Wooden posts should be seated below the frost line with soil compacted in the hole and around the post
- Solid rectangular shape of routed wood (BOF utilizes a 7/8 inch "V"- router bit that is adjusted to follow the stenciled width of the letter. Routed depth may vary from 1/8 to ½ inch.)
- Signs may be variable dimensions, depending on the number of lines, wording, and size of letters.
- Signs will have a brown background, matching as nearly as possible to Sherwin Williams DeckScapes Acrylic-based Russett Brown.
- Signs will have reflective white letters (reflectivity created by adding glass beads to the white paint).
- Letter sizes are normally 2"
 - On higher speed roads (40 MPH and over), letter size may have to be increased to 3" or 4".

- Refer to Figure 1 for example of sign installation.
- Refer to Figure 2 for chart to determine sign length and letter size.
- Refer to Figure 3 for pictures showing hardware to use for sign mounting and an example of a sign.
- Where traffic control devices are placed, we will maintain standardization as closely as possible, although some deviation from placement or height guidelines may be needed to meet the constraints of our terrain and visibility.

Abbreviations

The following approved abbreviations may be used, but only if limited space will not permit the full names. The following are most commonly used on signs:

Boundary: Bdy	Lake: L	Number: No	Rock: Rk
Branch: Br	Lakes: Lks	Peak: Pk	South: S
Brook: Brk	Little: Lit	Point: Pt	Spring: Spr
Creek: Cr	Lookout: LO	Post Office: PO	Station: Sta
East: E	Meadow: Mdw	Railroad: RR	Stream: Str
Elevation: Elev	Middle: Mid	Ranger Station: RS	Trail: Tr
Fork: Fk	Mount: Mt	Reservoir: Resvr	West: W
Gulch: Gul	Mountain: Mtn	River: R	Yards: Yds
Highway: Hy	North: N	Road: Rd	

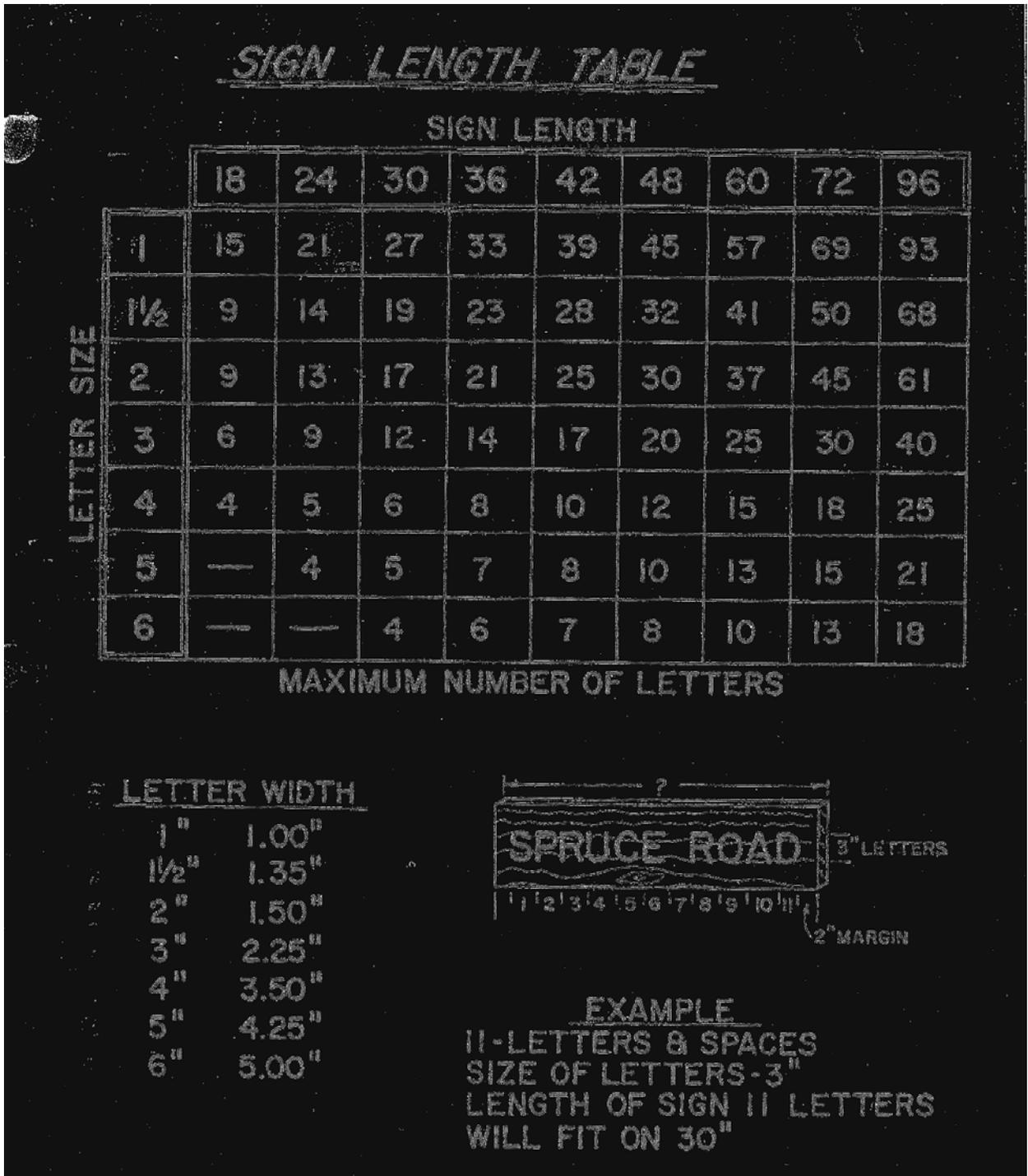
Letters and Spacing

In determining the required letter size for signs, horizontal space requirements are particularly important. Following is a list of average horizontal space requirements for various letter sizes.

<i>Letter height</i>	<i>Horizontal Space Required Size (for one letter and one space)</i>
6"	5"
5"	4"
4"	3"
3"	2-1/4"
2"	1-1/2"
1"	

Numbers require the same spacing as letters. Always allow one letter space between words and at each end of the sign for margin.

Figure 2 - Chart to determine sign length and letter size



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Figure 3 - Photos of hardware and sign mounting



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