

This section covers recreation signs. This group of signs has a variety of purposes and applications. They outline fees charged, hours of operation, services available, and procedures to be followed when launching a boat, using a dump station or reserving a picnic shelter. This diverse group of signs is brought together through visual consistency: color, typography, border treatment, and panel layout, as illustrated on page 7-2.

This section has been divided into the basic functional areas: entrance station, campground, picnic area, swimming area, and boat ramp. Each of these subsections has a schematic diagram of the respective area showing generic locations for the signs relating to that facility. Shown on the diagrams, but not included in this section, are the necessary traffic signs (Section 9), directional signs (Section 6), and identification signs (Section 5). In addition, there is a display and explanation of safety signs and signs for hours of operation.

The legends used on these signs have been carefully developed, reviewed, and approved for nationwide use. The purpose of developing a uniform system is twofold: to establish a uniform look for signs at all Corps projects and to reduce costs. The system discourages costly, one-of-a-kind signs. However, should the need occur for a sign not displayed in this section, there are grids provided on pages 7-63 to 7-65 for layout purposes. Consult the district Sign Program Manager for ordering procedures. It is important that special application signs follow the format outlined in this section. Nonconforming signs dilute the strength of the system as a whole.

This section is a catalog of recreation signs. All options – legend size, substrate, graphic application, and mounting – are described in the sign code, displayed in the matrix beneath each illustration. Legend sizes have been chosen for viewing from a vehicle moving at slow speeds or by pedestrians. The panel size for each legend size is fixed. Should local conditions require a different legend size, any given sign can be fabricated at a different scale using the dimensions shown next to the display of the sign.

Each page has an illustration showing available mounting methods and corresponding mounting heights. The dimensions shown adjacent to the illustrations specify the distance from the ground to the bottom of the sign panel (except for pages 7-16 to 7-18, which show the distance to the top of the panel).

Embedment depth and the required post length are not shown. These dimensions will vary with location, soil density, and local frost line conditions. Refer to Design Criteria in Appendix B, or consult a project engineer for proper post embedment depth.

Typography for all signs is Haas Helvetica Bold, initial capitals only. Letter- and word-spacing are to follow standards outlined in Section 4.

Sign color for signs with recreation applications in recreation areas (except for Danger, Warning or Caution signs) is Corps Brown background with white typography and border.

Caution and Warning signs are Lemon Yellow background with black typography and border. Danger signs are red background with white typography and border. Though they are rarely used in recreation areas, waterway information/instruction signs are white with blue typography and border (Section 14).

The basic difference between Recreation Area signs and Waterway signs is that the latter are generally viewed from the water, whereas Recreation Area signs are viewed from the land. Secondly, Recreation Area signs are used to identify and inform people on the use of facilities. Because the inherent dangers are less, there are fewer safety related signs. Waterway signs are predominantly used to communicate safety related information. Graphically, the main difference is that the legends on Waterway signs use Helvetica Medium typeface instead of Helvetica Bold as is used on Recreation Area signs. For Waterway signs refer to Section 14. A comparative illustration of safety sign types and applications is provided on pages 2-13 to 2-16.

Special applications or situations not covered in these guidelines should be referred to the district Sign Program Manager.

The group of signs illustrated in this section is unified visually through the use of three common elements – typography, border, and panel layout – on three related formats.

Layout grids for the three formats shown below are illustrated on pages 7-63 to 7-65. All use Helvetica Bold typography as per Corps letter-spacing and word-

Top Border: Equal to the basic grid unit A. It serves as an implied border.

Headline: Gives emphasis to a key word or words. The size of the headline type is 1.5A. Signs with a one-line headline use Grid 1; those with a two-line headline use Grid 2.

Underrule: All signs with headlines have a rule to separate the headline from the body copy. It is equal to .125A. The rule starts flush left with the type and extends to the right edge of the sign panel.

Body Copy: The bulk of the legend. Grid 3 has only body copy. The viewing distance of the sign is based on the height of the capital letters, A, of the body copy.

Panel Size: Based on two elements: the height of the capital letters of the legends, known as A, and the length of the longest legend line. Vertical dimensioning of the panel is based on A. Horizontal dimensioning is based on the length of the longest legend line plus 1.5A, which is referred to as X. The overall panel width is equal to 1.25X. There are four signs which are exceptions: the Campsite Fee sign (7-7), and the three Dumping Station signs (7-16 to 7-18). The panel width of these signs is 1.5X. The extra sign width allows for the placement of symbols in the left-hand margin.

When determining panel size, round off all calculations to the nearest .125".

Typography: Helvetica Bold, initial capitals only, aligned flush left on the grid. Letter- and word-spacing to follow typographic standards in Section 4.

Color: Informational signs in recreation areas have a Corps Brown background with white typography and rules, as shown on page 4-5. Safety related signs (Danger/Caution/Warning/Restricted) use the safety colors shown on page 4-6 through 4-8.

spacing standards (see Section 4). The size of the sign panel is based on the length of the longest line of type. Grids 1 and 2 incorporate a headline and secondary descriptive body copy. The headline type is 1.5 times larger than the size of the body copy. Grid 1 has a headline with a single legend line; Grid 2 has a headline with two legend lines; Grid 3 has no headline. Viewing distance is

based on the size of the legend in the body copy, not the headline. To specify size of body copy, refer to the Viewing Distance Guide on page 2-6.

All signs shown in this section adopt these grid formats with the exception of the Opening Hours sign (page 7-56) which uses a special format.



Example: Grid 1



Example: Grid 2



Example: Grid 3

The diagrams below show fee and fee collection information sign placement for both attended and unattended entrances. The specific location will depend on the layout of and circulation in an actual site.

Because there are a number of signs concentrated around an entrance station, a few placement guidelines should be observed. Signs should be mounted so that they are easily read from a motor

vehicle, rather than by a pedestrian. Where there is an entrance station in a center island, fee and registration signs should be mounted on the driver's left side. Through traffic will use the right lane.

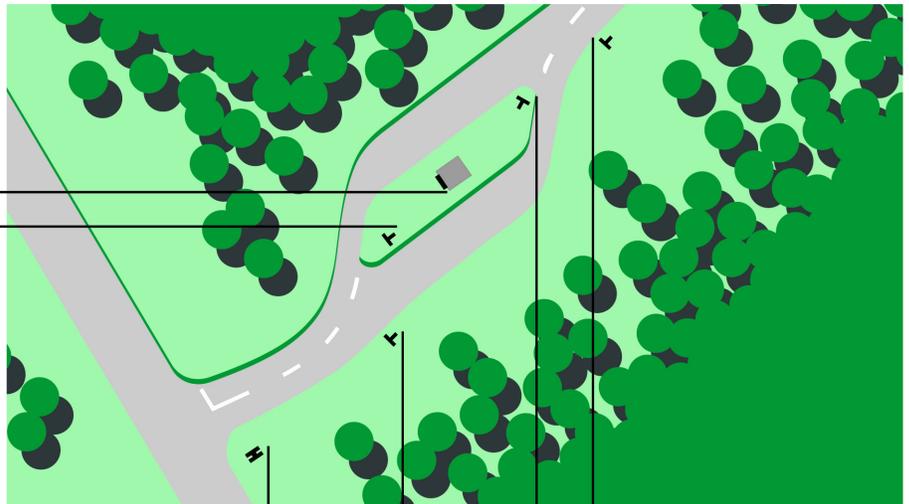
The second diagram shows the entrance to an unattended fee area. Fee and fee collection signs are to be placed on the right side of the roadway. Careful

consideration should be given to placing signs so that they can be seen, read, and understood before encountering another sign.

Additional signs which may be required for this area will include: project identification (Section 5), directional (Section 6), prohibition (Section 8), symbols (Section 8), and traffic (Section 9).

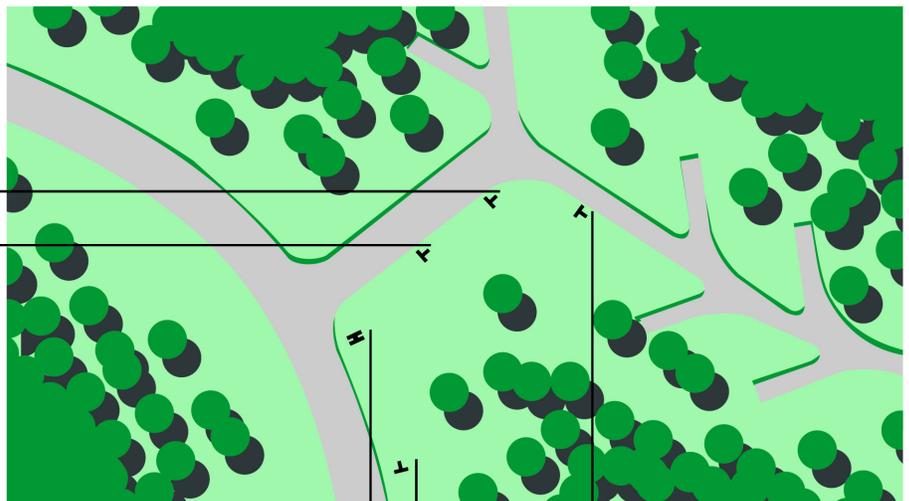
Campsite Fees
 May 15-October 15
 Campsite: \$0.00 per Night
 Guests: \$0.00 per Day
 14 Day Limit

Campers
 Stop Here
 to Register



Fee Collection
 1. Select campsite.
 2. Fee will be collected by uniformed park ranger on patrol.
 3. Retain permit receipt and display at campsite.
 Campground Closed

Campsite Fees
 May 15-October 15
 Campsite: \$0.00 per Night
 Guests: \$0.00 per Day
 14 Day Limit



Fee areas with a controlled entrance compound may use one-way tire puncture gates to allow egress but prevent unauthorized access into a project. Other applications are for projects with strictly enforced one-way in, one-way out circulation, where a remote egress point cannot be monitored by project personnel.

The two signs specified below are mounted for view by both the exiting

driver and the driver attempting an improper entry. The two specified signs are to be mounted approximately ten feet beyond the gate mechanism as illustrated below. Prepare as a back-to-back sign assembly with WRN-03 sized as shown and placed at eye level on the exiting driver's right side. With this assembly, sign WRN-02 will be mounted on the opposite side of the same post for view by a driver attempting an improper entry.

Because viewing is at close proximity and at a common site location, only one size sign has been specified. Both signs have black legends and Lemon Yellow backgrounds.

As an additional warning to a driver attempting an improper entry, sign R5-1 ("Do Not Enter") may be placed as shown in the sketch below.



WRN-02

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-02	1.5"	20.5"x16.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK

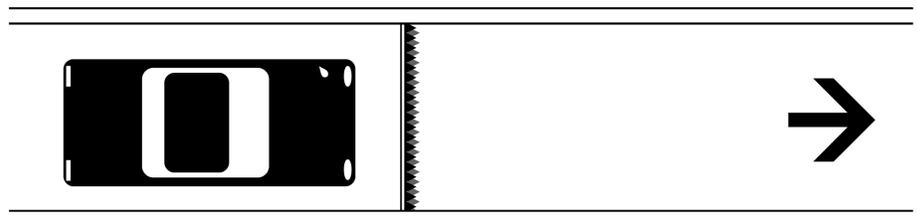


WRN-03

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-03	1.5"	24.625"x16.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK



R5-1



WRN-03 | WRN-02

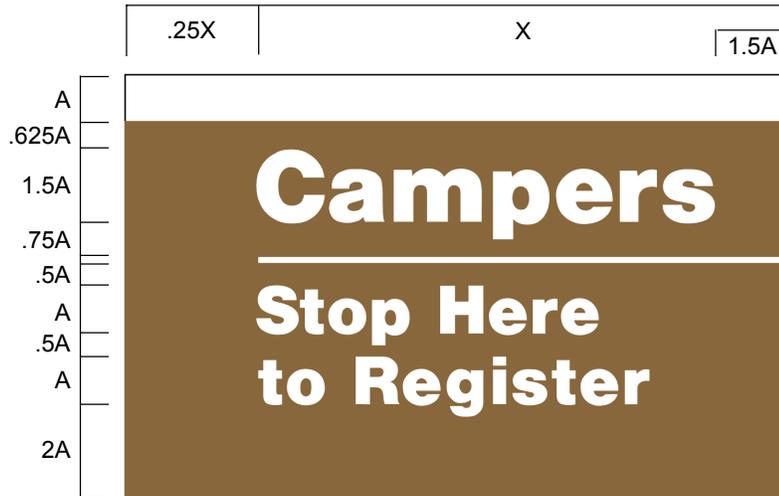
Approximately 10'

This sign is used at locations where campers are required to stop at the entrance station to register or obtain a permit. It is placed either adjacent to the entrance station, or along the approach road, slightly in advance of the entrance station. Its precise location will depend on the configuration of the area.

There are three sizes available. The smaller one is for placement on the entrance station, and the larger two are freestanding and ground-mounted on posts.

The sign is fabricated from retroreflective sheeting on HDO plywood or aluminum.

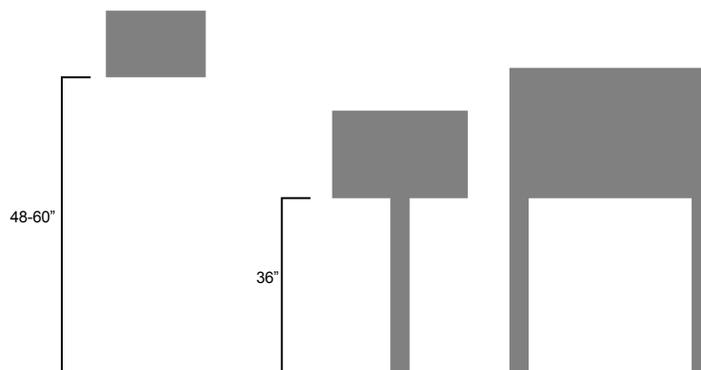
Underrule is .125A



*The mounting height for the wall-mounted panel will vary according to design of entrance station building.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
ENT-01	1.5"	21.125"x13.5"	-	HDO-6/ALU-6	48"-60"*	BR/WH
ENT-01	2"	28.125"x18"	4"x4"	HDO-5/ALU-5	36"	BR/WH
ENT-01	3"	42.125"x27"	4"x4"	HDO-3/ALU-3	36"	BR/WH

The illustration shows both wall-mounted and ground-mounted signs.



Entrances to areas that collect fees can be identified using this symbol. Below is an illustration that shows how this symbol may be used on approach roadways, project roads and on buildings.

The largest panel (18") is intended for placement along approach roadways going into a designated fee area. Similarly the 9" panel is for placement along slow speed project roadways. The smaller panel is to be placed on buildings.

The symbol is available in three sizes.

Artwork for the U.S. Fee Area Symbol is found in Appendix F, page F.137.

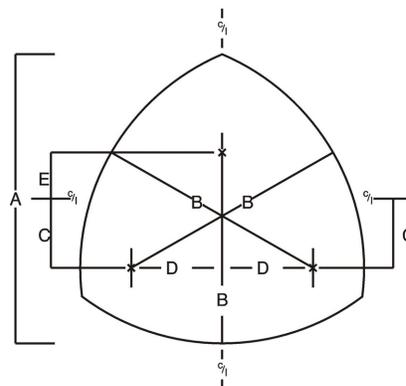
The background color is gold (PMS 130) and the foreground color is blue (PMS 282). The interior circle is white.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
FEESYM	6"	6"x6"	-	HDO-5	60"	*
FEESYM	9"	9"x9"	4"x4"	HDO-5	48"	*
FEESYM	18"	18"x18"	4"x4"	HDO-5	60"	*

*see margin text for symbol colors

Sign fabricators should follow this diagram for proper panel size and shape. The centerlines of the sign are noted with "c/l".



A	B (radius)	C	D	E
6"	4.8005"	1.431"	1.8795"	0.96"
9"	7.20075"	2.1465"	2.81925"	1.44"
18"	14.4015"	4.293"	5.6385"	2.88"

Signs may be mounted along fee area roads or on buildings at fee area entrances.



The Campsite Fee sign shown below is used to inform the public that there is a fee for using the campsites, what that fee is, and the fee season (varies according to location). It also serves as the location to display the U.S. Fee Area symbol.

The sign is located on the entrance station or, if there is no entrance station, next to the Fee Collection sign (see p. 7-8).

The fee season, costs, and length of stay limits will vary from project to project. Indicate the applicable legends when ordering this sign type.

The legend on this sign should be limited to the dates that the facility is open, fees, limit of stay and availability. Addition of other legends to this panel will dilute the purpose for which it was intended.

When prices change, a replacement patch should be used.

Of the four sizes available, the smallest is frequently mounted on the entrance station, with the larger freestanding sizes used in conjunction with ENT-03 on page 7-8.

Underrule is .125A.
Fee Season: Indicate dates, if applicable.
Indicate campsite fee.

Optional legend: Indicate guest fee, if applicable.
Optional legend: Indicate limit of stay, if applicable.

Optional panel may be attached using hook and eye hardware. If panel is subject to removal by vandals, it can be mounted as per the specifications for HDO-3 or HDO-5 provided in Appendix B.

Fee listings with a range of prices should be placed on the sign panel in the format illustrated.

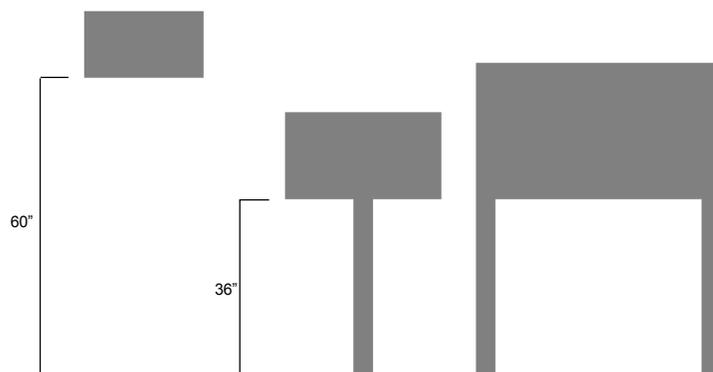


**Campsite: \$0.00-0.00
per Night**

Panel height varies depending on legends used. Panel height shown in matrix is for sign as illustrated above, without the "Campground Full" attachable panel.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
ENT-02	.75"	20.25"x11.25"	-	HDO-6/ALU-6	60"	BR/WH
ENT-02	1"	27"x15"	4"x4"	HDO-5/ALU-5	36"	BR/WH
ENT-02	1.5"	40.5"x22.5"	4"x4"	HDO-3/ALU-3	36"	BR/WH
ENT-02	2"	54"x30"	4"x4"	HDO-3/ALU-3	36"	BR/WH

The illustration shows both wall-mounted and ground-mounted signs.

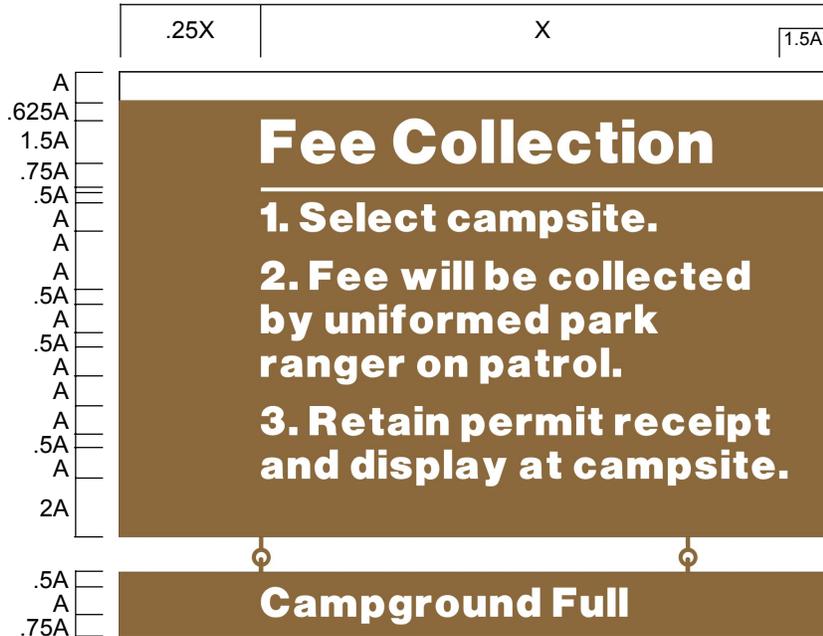


At locations where there is no entrance station and campsite fees are collected by a roving ranger, the sign illustrated below is used. It is placed on the roadway approaching the campground, where it is easily viewed by entering vehicles.

The sign is ground mounted on one or two wood posts, depending on the size of the sign. The size chosen is determined by the viewer's speed of approach and by the appropriateness of the size of the sign to the site.

An optional "Campground Full" attachable panel is available.

Underrule is .125A.



Optional panel may be attached using hook and eye hardware. If panel is subject to removal by vandals, it can be mounted as per the specifications provided in Appendix B.

The panel height shown is without the "Campground Full" attachable panel.

Sign Type	Legend Size (A)	Panel Size Size	Post Code	Specification Height	Mounting Bkg/Lgd	Color
ENT-03	1"	24.375" x 16"	4"x4"	HDO-5/ALU-5	36"	BR/WH
ENT-03	1.5"	36.625" x 24"	4"x4"	HDO-3/ALU-3	36"	BR/WH
ENT-03	2"	48.875" x 32"	4"x4"	HDO-3/ALU-3	36"	BR/WH



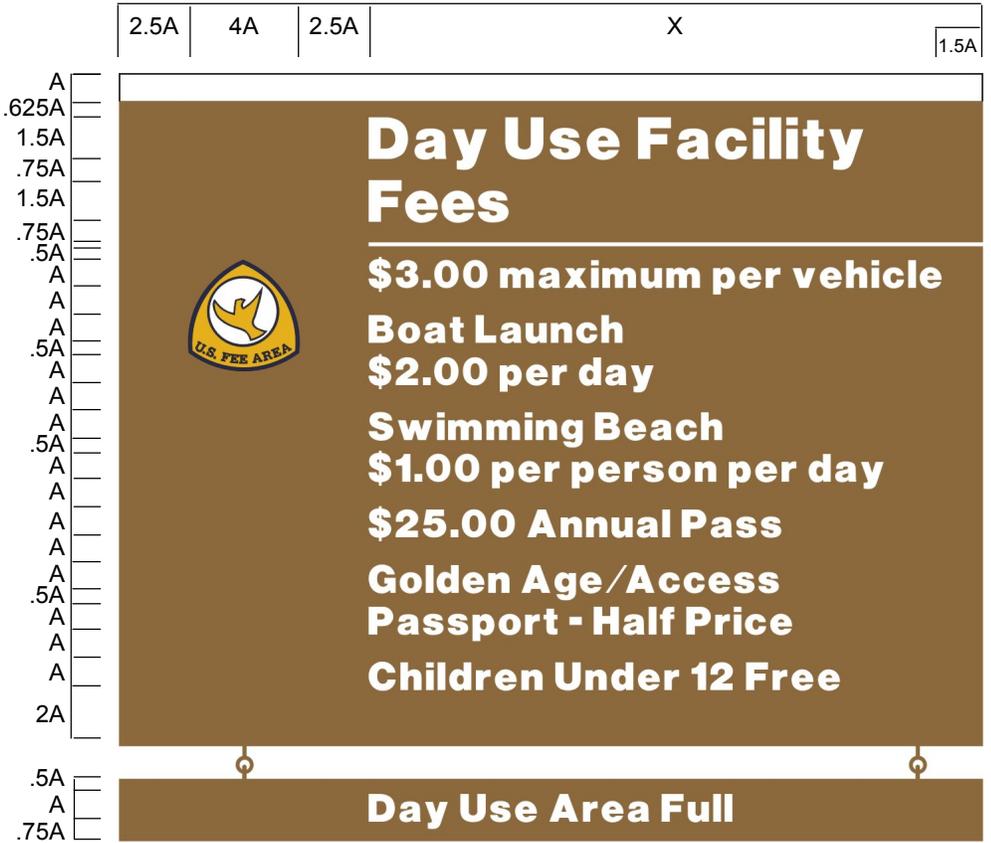
Where fees are charged at day use or other fee areas, the sign provided below should be clearly posted at the entrance to inform entering visitors of costs. Actual legend content may vary depending on local rules, fee season, and recreation area. The Grid 1 format as modified to include the fee symbol should be maintained at all locations.

The example shown below assumes that the fees are applicable all year round or that the sign is removed at the end of the season. If the sign will remain posted all year round but patrons will only be charged during the recreation season, an optional legend that includes the fee period should be added (see example on page 7-7 for Campsite Fees).

If the area is not attended, a second panel that includes instruction procedures for registration and payment is to be placed in conjunction with this panel (see page 7-10)*.

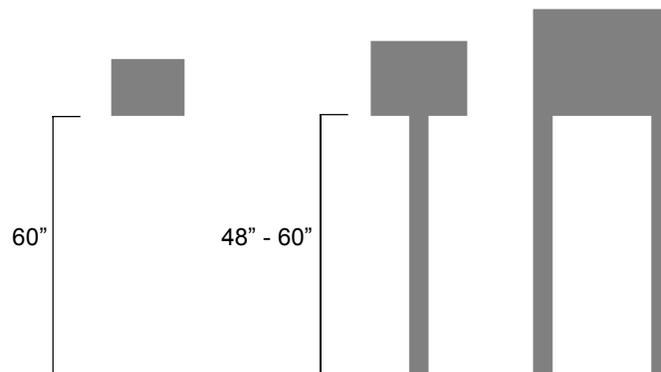
*These signs will be placed on separate posts. See page 7-3 for typical sign placement.

Underrule is .125A.

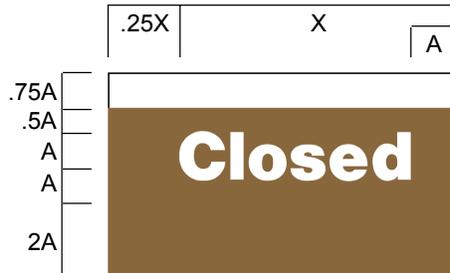


The panel height shown is without the "Day Use Area Full" attachable panel.

Sign Type	Legend Size (A)	Panel Size*	Symbol Size (Y)	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
ENT-05	1"	31.125"x24.25"	4"	4"x4"	HDO-5/6/ALU-5/6	60"	BR/WH
ENT-05	1.5"	46.75"x36.375"	6"	4"x4"	HDO-3/6/ALU-3/6	48"-60"	BR/WH
ENT-05	2"	62.25"x48.5"	8"	4"x4"	HDO-3/ALU-3	48"-60"	BR/WH

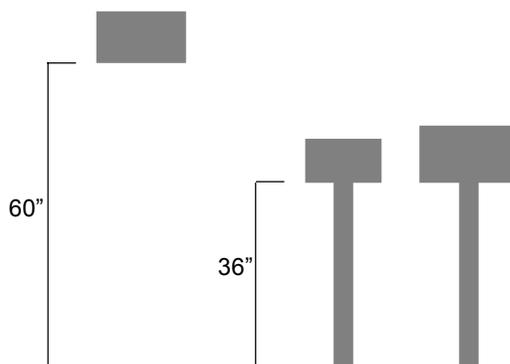


This sign is available in two sizes. It may be mounted on a building, on a gate to close off a roadway, or on a single wood post.



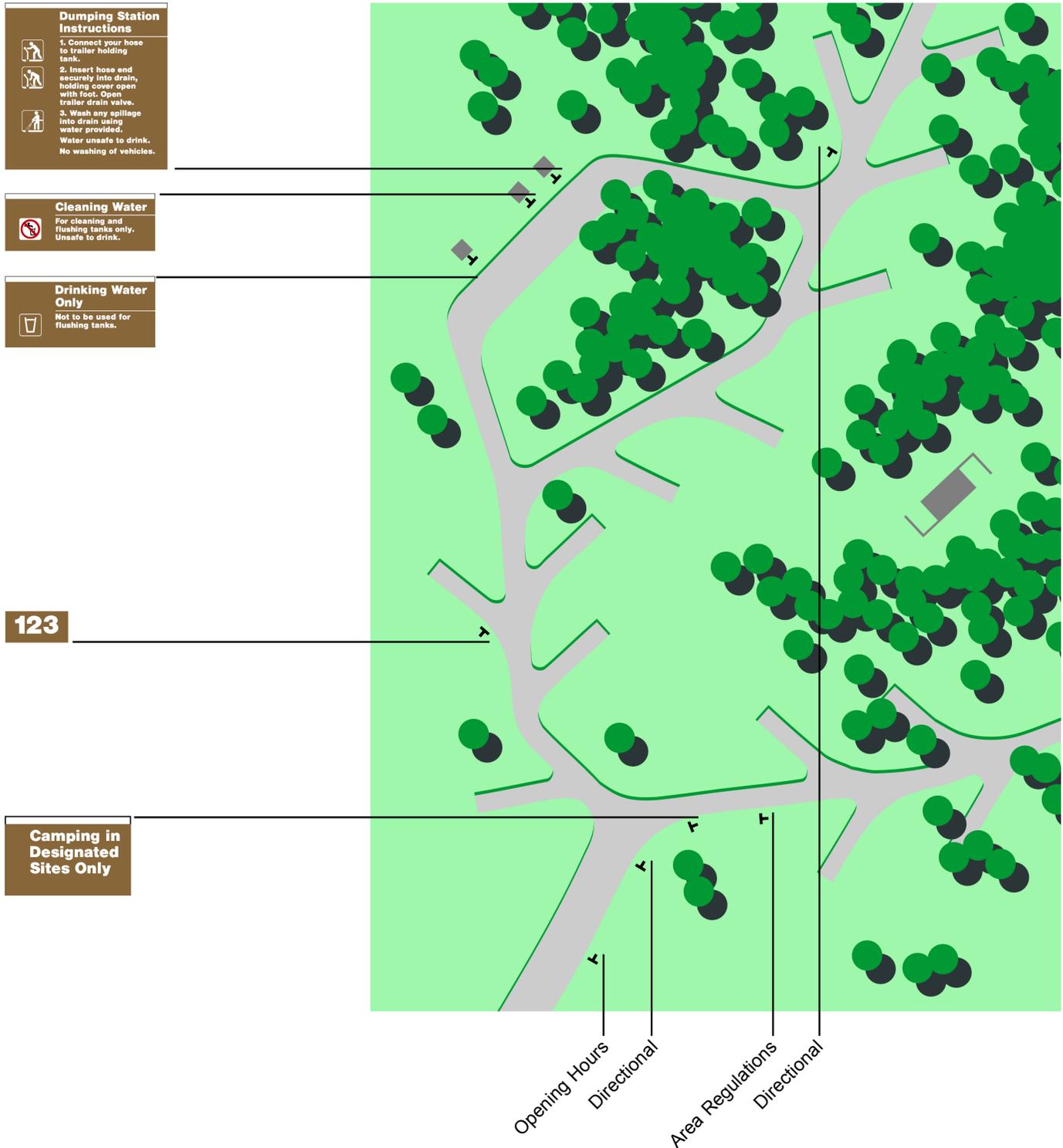
Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
ENT-04	2"	14.75"x8.5"	4"x4"	HDO-5/6/ALU-5/6	36"/60"	BR/WH
ENT-04	3"	22.125"x12.75"	4"x4"	HDO-5//ALU-5/6	36"/60"	BR/WH

The illustration shows both wall-mounted and ground-mounted signs.



Illustrated below is a schematic diagram of a campground. It shows the general location of the six possible recreation sign types for this area. The specific location will depend on the layout of and circulation in the actual site.

Additional signs which may be required for this area will include: Secondary Identification (Section 5), directional (Section 6 and 8), symbols (Section 8), prohibition (Section 8), and traffic (Section 9).



Each individual campsite is identified with a one to three digit number or combination of numbers and a letter. The sign shown below will accommodate up to three characters (numbers or numbers with letters) with the alphanumeric identifier centered on the sign panel.

The Campsite Identification sign is placed in a dadoed receiving slot on the top of a sign post using a standard T-nut

to cap bolt attachment with the joints between the sign panel and the post caulked with silicone adhesive.

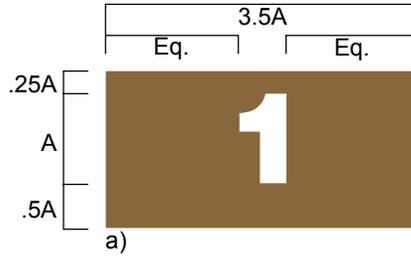
A flexible sign post (dark brown formed fiberglass product) with identification graphics applied vertically may be used as an alternate. If adopted, this method must be used consistently throughout the installation. The graphics are to be centered with a (.25A) vertical line space between the characters.

Both versions use retroreflective sheeting for legend and background.

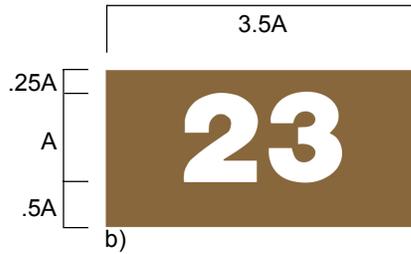
Use of large dimension timber bollards is discouraged because they become prohibitively expensive.

Optional bollard systems are discussed on page B.6-7.

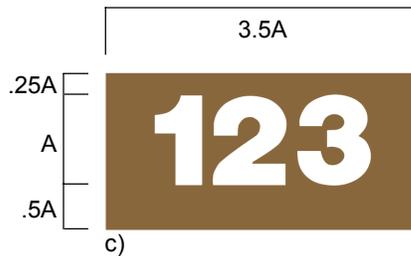
a) One-digit number: centered horizontally on HDO panel.



b) Two-digit number: centered horizontally on HDO panel

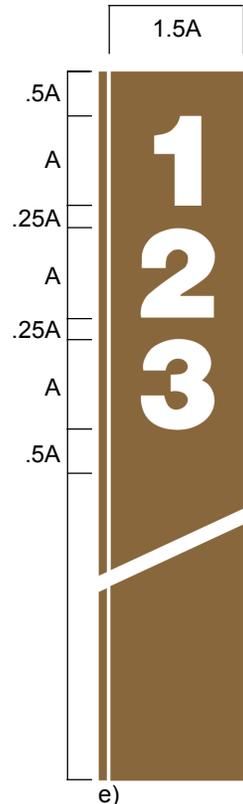


c) Three-digit number: centered horizontally on HDO panel.



d) If the alpha-numeric legend requires any additional characters, the length of the sign panel should be adjusted accordingly.

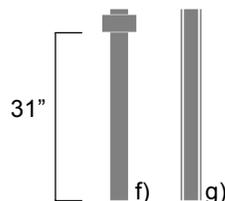
e) Three-digit number: centered vertically on flexible post assembly.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-09	2"	7"x3.5"	4"x4"	HDO-7	31"	BR/WH
CMP-09	2"	9.75"x3.5"	4"x4"	HDO-7	31"	BR/WH
CMP-09	2"	none	4"wide	FSM-7	31"	BR/WH

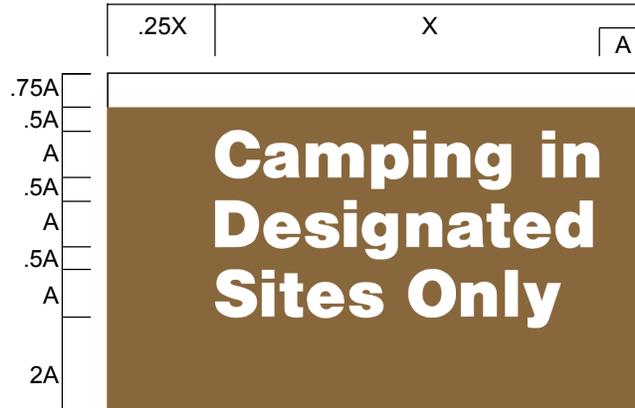
f) Wood post with HDO-7 panel

g) Flexible post with numbers applied

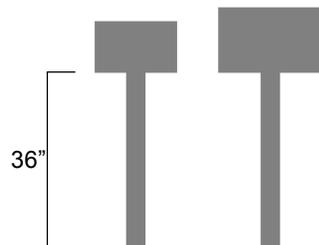


This sign is placed in areas within or adjacent to campgrounds to remind visitors that camping is permitted only on numbered campsites.

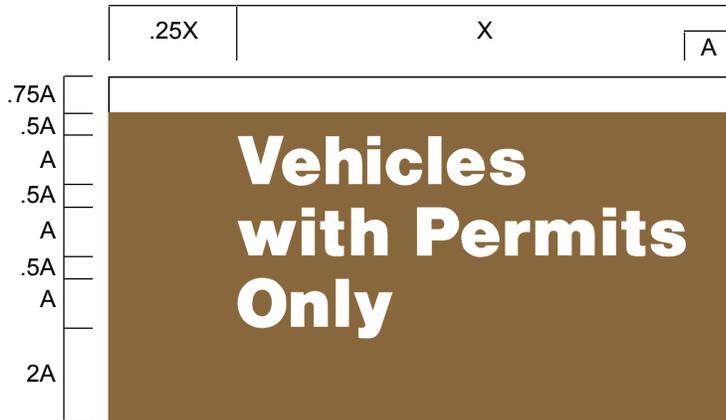
A similar legend can also be used on the Area Regulation sign (see page 8-42).



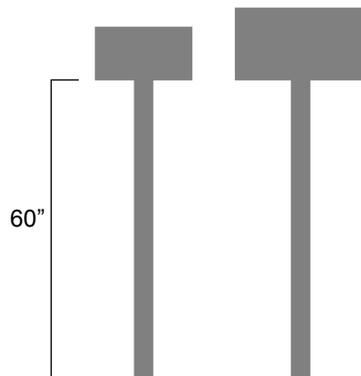
Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-02	1.5"	17.375"x10.875"	4"x4"	HDO-5/ALU-5	36"	BR/WH
CMP-02	2"	23.125"x14.5"	4"x4"	HDO-5/ALU-5	36"	BR/WH



This sign is posted at the entrance of a facility that is restricted to those vehicles having permits.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-03	1.5"	19.75"x10.875"	4"x4"	HDO-5/ALU-5	60"	BR/WH
CMP-03	2"	26.25"x14.5"	4"x4"	HDO-5/ALU-5	60"	BR/WH



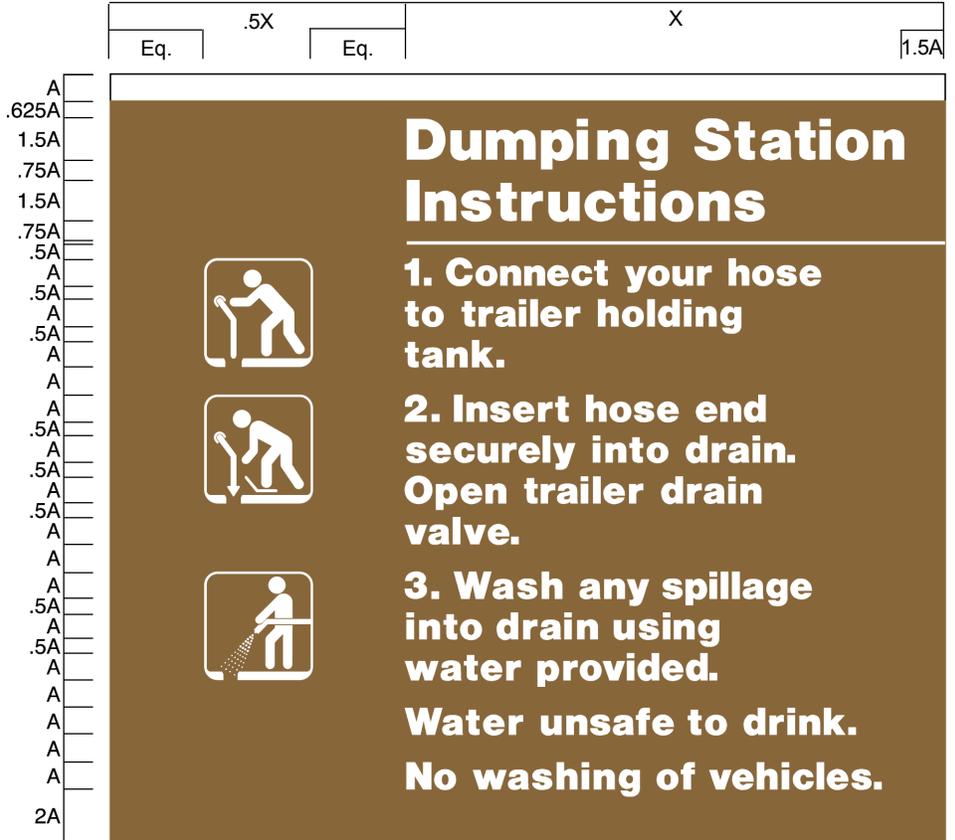
This sign serves as both an identification of the dump station location and as a guide for its use. It must be visible from an approaching recreation vehicle as well as from a pedestrian's viewpoint.

It is available in two sizes. Since it is part of a total package of signs used in conjunction with the Drinking Water (page 7-17) and Cleaning Water (page 7-18) signs, the same legend size should be used for all three of the signs.

This and the following two signs may be two-sided where a dump station has traffic approaching in both directions.

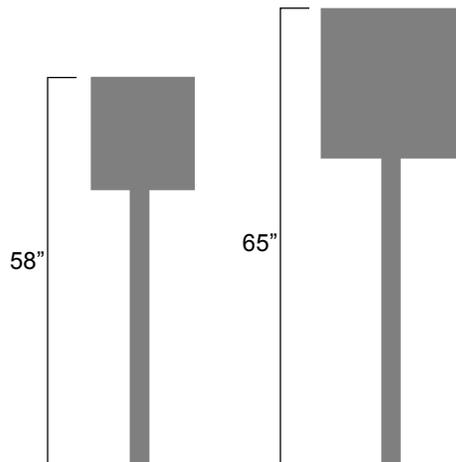
Underrule is .125A.

The symbols are 4A, measured to the outside edge of the border.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-04	.75"	23"x22.3125"	4"x4"	HDO-5/ALU-5	58"	BR/WH
CMP-04	1"	30.625"x29.75"	4"x6"	HDO-5/ALU-5	65"	BR/WH

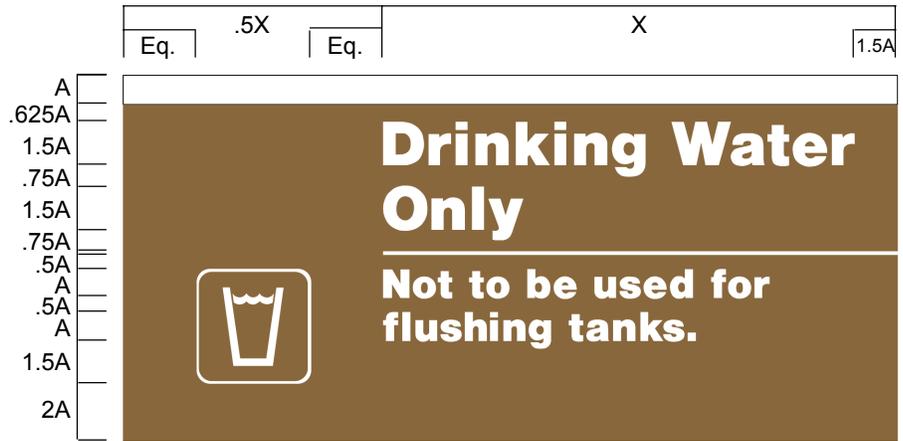
Mounting height is measured to the top of the sign panel rather than to the bottom of the panel. This mounting method visually aligns the group of Dumping Station signs (pages 7-16 to 7-18).



This sign identifies the tap for potable water. The legend size and mounting should match that of the Dumping Station sign.

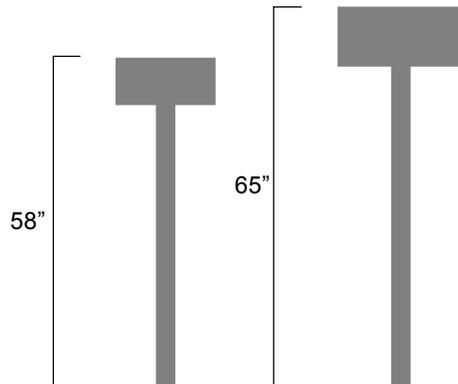
Underrule is .125A.

The symbol is 4A, measured to the outside edge of the border.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-05	.75"	19.5"x9.5"	4"x4"	HDO-5/ALU-5	58"	BR/WH
CMP-05	1"	26"x12.75"	4"x4"	HDO-5/ALU-5	65"	BR/WH

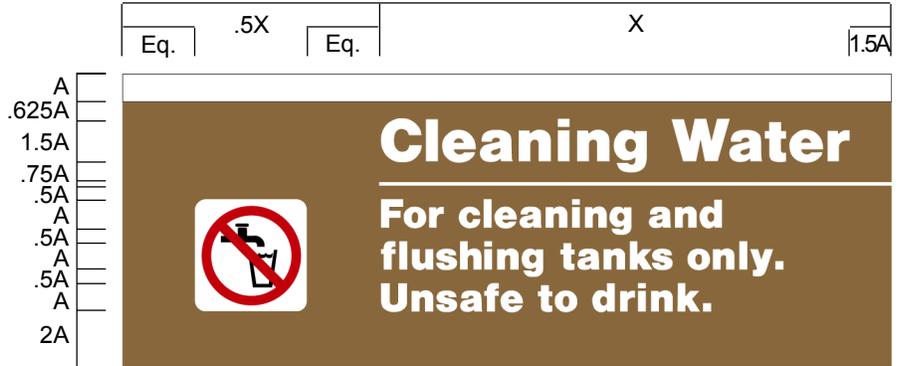
Mounting height is measured to the top of the sign panel rather than to the bottom of the panel. This mounting method visually aligns the group of Dumping Station signs (pages 7-16 to 7-18).



This sign identifies the tap for water that is not potable and should be used only for flushing tanks. The legend size and mounting should match that of the Dumping Station sign.

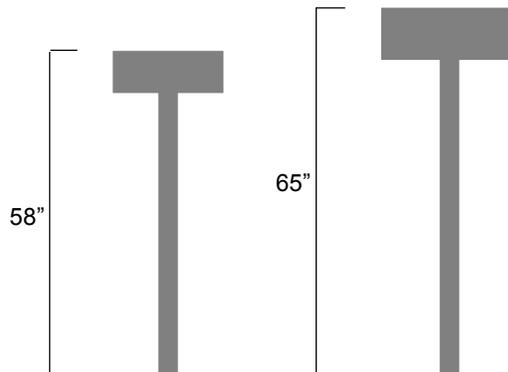
Underrule is .125A

The symbol is 4A, measured to the outside edge of the border.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-06	.75"	20.375"x7.875"	4"x4"	HDO-5/ALU-5	58"	BR/WH
CMP-06	1"	27.125"x10.5"	4"x4"	HDO-5/ALU-5	65"	BR/WH

Mounting height is measured to the top of the sign panel rather than to the bottom of the panel. This mounting method visually aligns the group of Dumping Station signs (pages 7-16 to 7-18)



The quiet hours sign shown below may be used at the main entrance, on loop roads, or at other points around a campground.

6:00 am quiet hours period corresponds to the standard hours as regulated in Title 36. To avoid a proliferation of signs, do not place a quiet hours sign in locations where slat signs are used.

This sign is used as an alternative to a slat sign (see page 8-42), with the sign placed at the entry to each campground area loop. The designated 10:00 pm -

The quiet hours sign is provided in two sizes, and is ground mounted.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-07	1"	20.875"x9.5"	4"x4"	HDO-5/ALU-5	36"	BR/WH
CMP-07	1.5"	31.25"x14.25"	4"x4"	HDO-3/ALU-3	36"	BR/WH



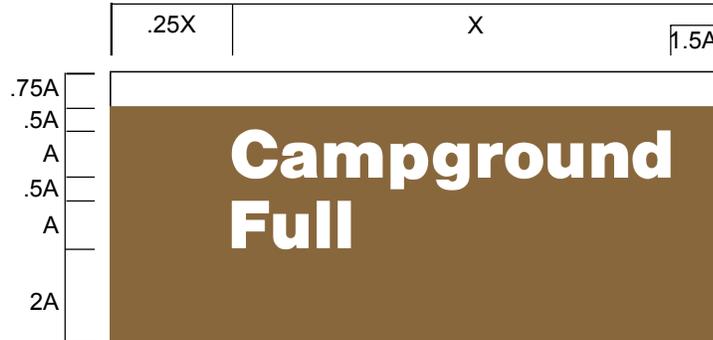
The campground full sign shown below is used within a campground roadway system for temporary notification to potential users that the facility is fully occupied. The function of this sign is to aid in the reduction of unnecessary traffic through occupied areas.

These signs are used in addition to a Campground Full panel that is attached to the Campsite Fee and Fee Collection signs (pages 7-7 to 7-8) which are mounted on or adjacent to the entrance station.

For most applications the smaller panel should be sufficient. Signs can be mounted at the entrance to an area using either a post-mounted sign or a sign on a barricade structure that can be placed across internal loop roadways.

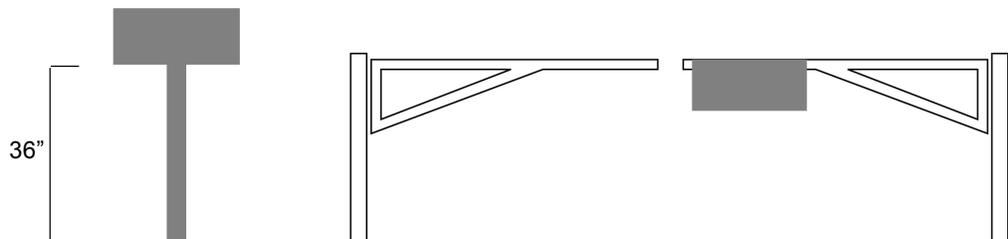
The sign shown below is specified in two

Note: Because there are a variety of gate types, the mounting method should be determined on a site by site basis. Attachment to be tamper resistant while being easy to attach or remove by park staff. If mounted on a gate order an HDO sign without hardware. Attach panel to gate from back without penetrating sign face.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CMP-08	2"	25.75"x11.5"	4"x4"	HDO-5/ALU-5	36"	BR/WH
CMP-08	3"	38.625"x17.25"	4"x4"	HDO-5/ALU-5	36"	BR/WH

Examples show post mount and mounted on barricade (see detail 13, page B.7-4).



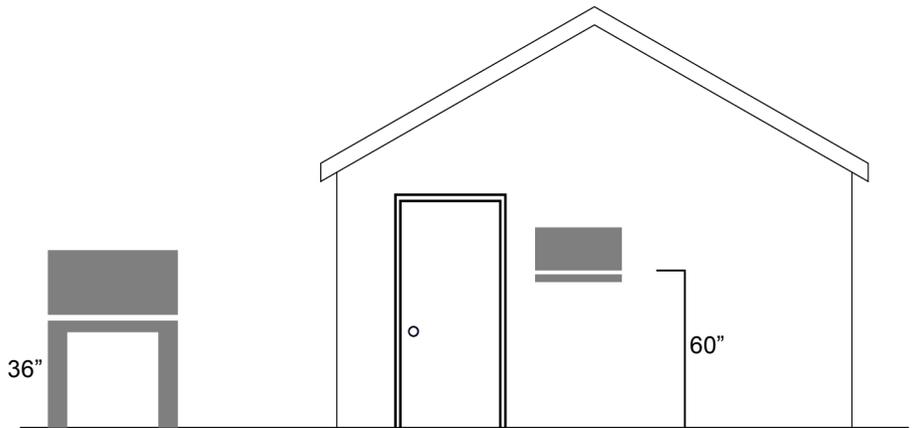
The sign shown below is used to inform the public that sites may be reserved in advance through a national reservation service. The sign is located at the entrance to the area. The sign may be modified to show site-specific information.



Underrule is .125A.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RSV-05	1"	25.625"x12.75"	-	HDO-3/ALU-6	*	BR/WH
RSV-05	1.5"	38.5"x19.125"	4"x4"	HDO-3/ALU-3	36"	BR/WH

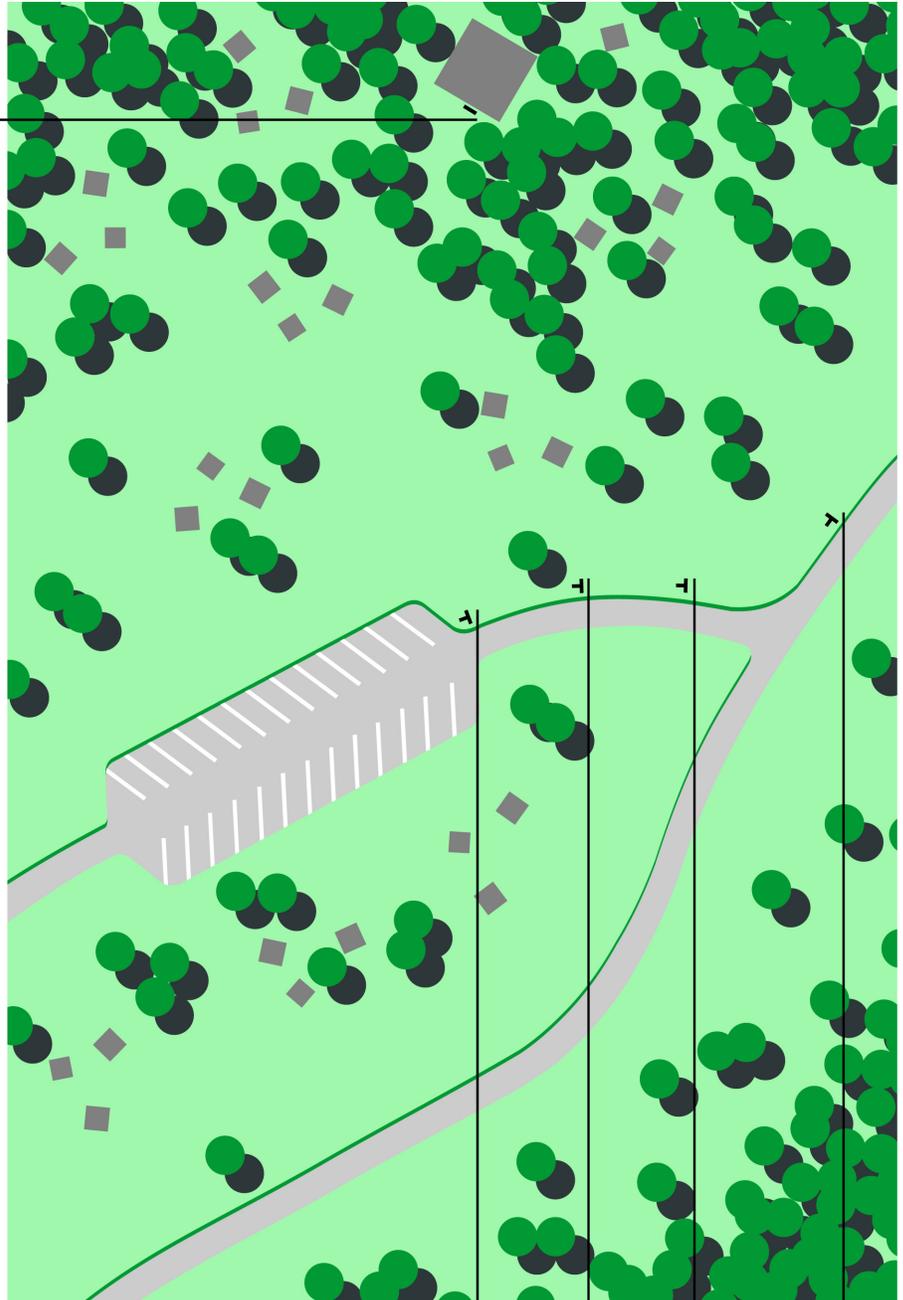
*Mounting height for sign attached to building will depend on building design.



Illustrated below is a schematic diagram of a picnic area. It shows the general location for the one recreation sign type for this area. The specific location will depend on the layout of and circulation in an actual site.

Additional signs which may be required for this area will include: Secondary Identification (Section 5), directional (Section 6 and 8), symbols (Section 8), prohibition (Section 8), and traffic (Section 9).

Shelter May Be Reserved
Contact the project office for more information
(000) 000-0000



Area Regulations
Traffic Control
Opening Hours
Directional

The signs shown below are provided for mounting on or adjacent to the facility or structure, and are used on projects where picnic shelters, group camping facilities, picnic areas and athletic fields may be reserved in advance. The picnic shelter sign is shown below. Signs for group camping, picnic areas, and athletic fields

are specified on page 7-24.

An additional detachable panel may be affixed as shown to the base to advise users that the facility has been already reserved for that day.

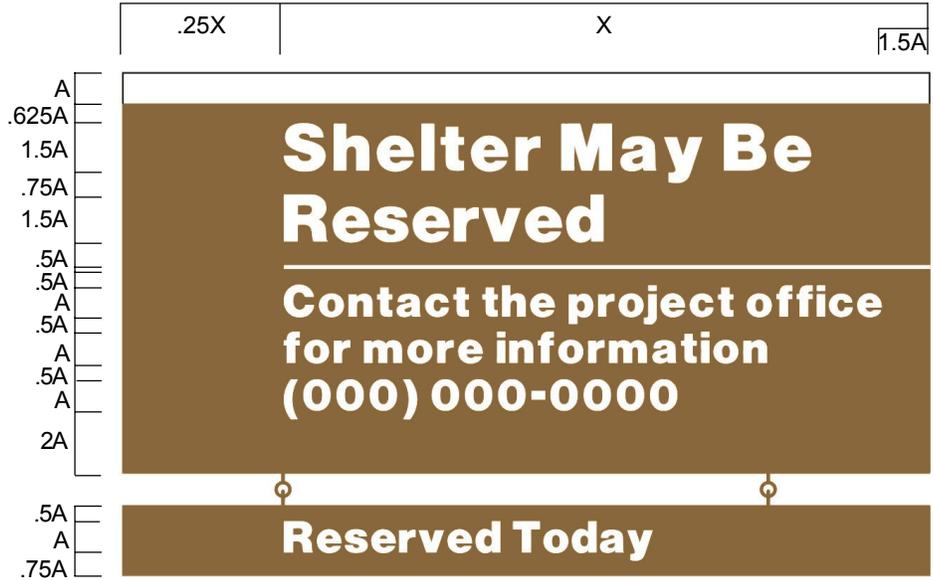
There are two legend sizes available.

The smaller one is for ground mounting or for mounting to a structure. The larger legend size is for a free-standing, ground-mounted installation that may require a larger sign.

Include local project phone number when ordering reservation signs.

Underrule is .125A.

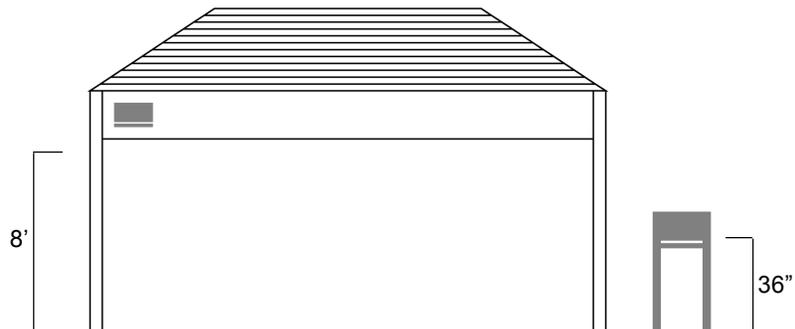
Optional panel may be attached using hook and eye hardware. If panel is subject to removal by vandals, it can be mounted as per the specifications for HDO-3 provided in Appendix B.



*Mounting height for sign attached to shelter will depend on shelter design.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RSV-01	1"	25.625"x12.75"	-	HDO-3/HDO-6 ALU-3/ALU-6	*	BR/WH
RSV-01	1.5"	38.5"x19.125"	4"x4"	HDO-3/ALU-3	36"	BR/WH

The illustration shows both wall-mounted (HDO-6/ALU-6) and ground-mounted (HDO-3/ALU-3) signs.



Shown below are examples of the various reservation facility signs and respective specification matrices. To implement, refer to the guidelines provided on page 7-23. For consistency, all reservation information panels follow the grid format and size as seen on page 7-23. This allows for one common panel size.

Include local project phone number when ordering reservation signs.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RSV-02	1"	25.625"x12.75"	-	HDO-3/HDO-6 ALU-3/ALU-6	*	BR/WH
RSV-02	1.5"	38.5"x19.125"	4"x4"	HDO-3/ALU-3	36"	BR/WH



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RSV-03	1"	25.625"x12.75"	-	HDO-3/HDO-6 ALU-3/ALU-6	*	BR/WH
RSV-03	1.5"	38.5"x19.125"	4"x4"	HDO-3/ALU-3	36"	BR/WH



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RSV-04	1"	25.625"x12.75"	-	HDO-3/HDO-6 ALU-3/ALU-6	*	BR/WH
RSV-04	1.5"	38.5"x19.125"	4"x4"	HDO-3/ ALU-3	36"	BR/WH

Illustrated below is a schematic diagram of a swimming area. It shows the general location of four possible signs for this area. The specific location will depend on the physical characteristics, layout of and circulation in an actual site. Additional

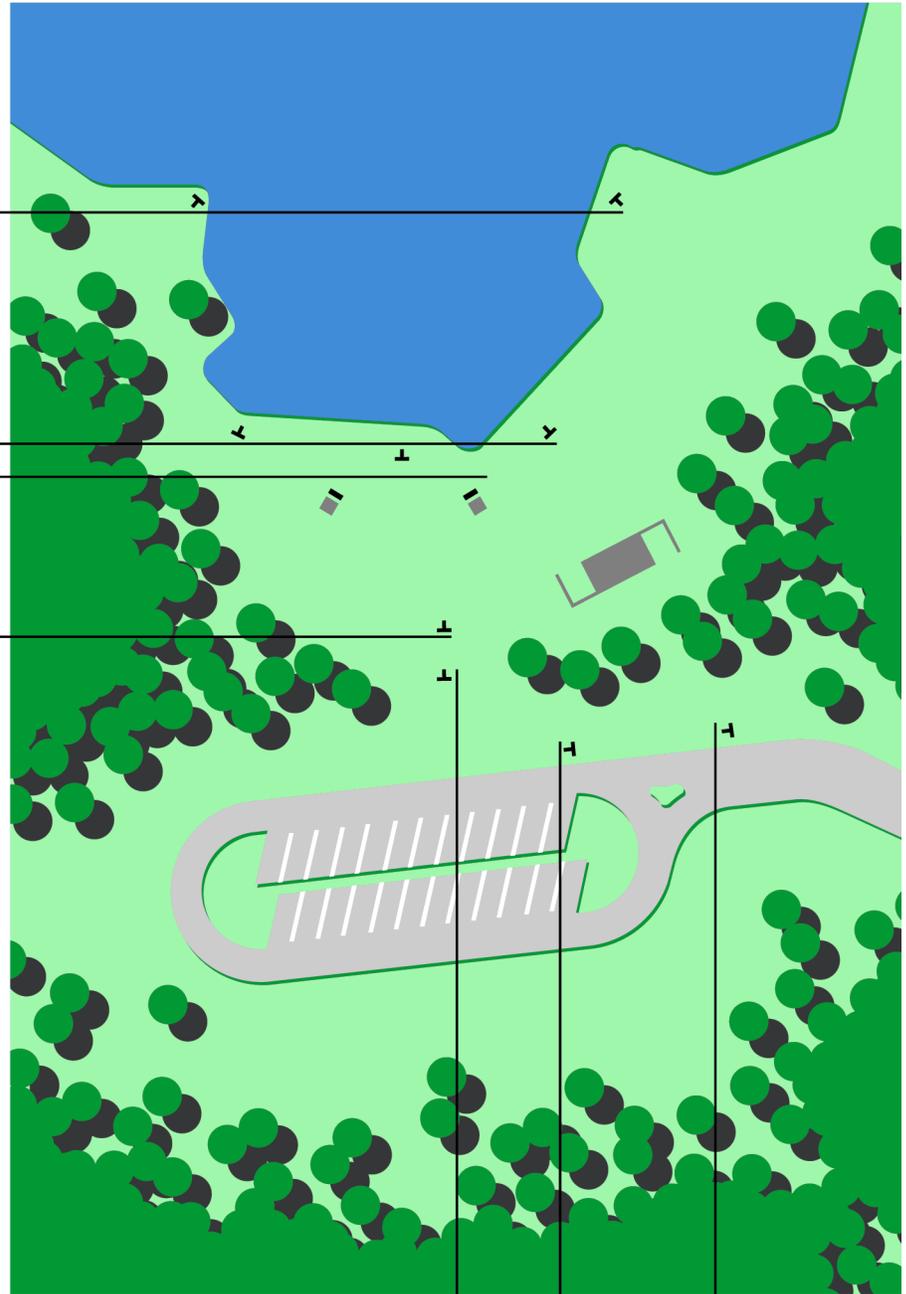
signs which may be required for this area will include: Secondary Identification (Section 5), directional (Section 6 and 8), symbols (Section 8), prohibition (Section 8), traffic (Section 9), and Waterway Restricted signs (Section 14).

Restricted
No Boats in Swimming Area

No Lifeguard
Swim at Your Own Risk

For Emergency Use Only

Coast Guard Approved Flotation Devices Only



Area Regulations

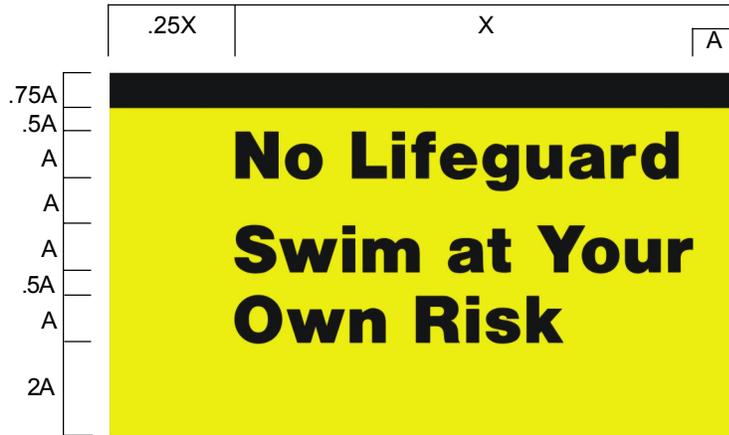
Parking Control

Opening Hours

The sign illustrated below must be located on Corps-maintained access routes to the beach to advise there is no lifeguard service. If there is a single path leading from the parking lot to the beach, and no other access, one sign mounted along the path will be sufficient. If there

are many access routes to the beach, a number of signs will be needed along the primary approach and for optimum visibility from water's edge. If the beach is very large, it is preferable to locate a number of signs along it rather than place one large sign centrally.

If vandalism is a problem, the sign can be fabricated with a black screen-printed legend. It is available in three sizes. The size chosen is determined by the viewing distance required and by the appropriateness of the size of the sign to the site.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
SWM-01	2"	26.75"x15.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
SWM-01	3"	40.125"x23.25"	4"x4"	HDO-3/ALU-3	36"	LY/BK
SWM-01	4"	53.5"x31"	4"x4"	HDO-3/ALU-3	36"	LY/BK



The sign illustrated below is to be mounted toward the water to alert boaters not to enter the swimming area. It may be used in addition to the floats or buoys at the perimeter of the designated swimming area.

Mounting height varies according to the

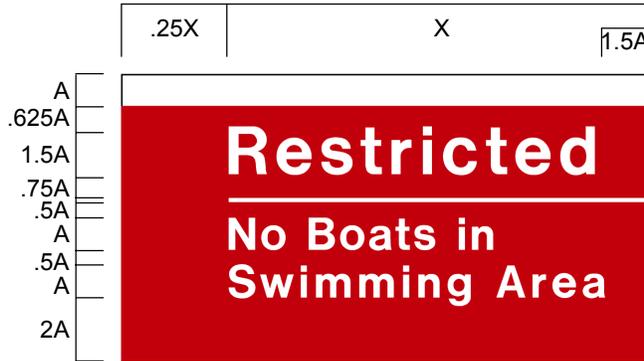
water level fluctuation in a given location. Three sizes are available. The size chosen is determined by the viewing distance.

The sign must be visible from a distance beyond the buoy line or designated swimming area with sufficient margin of

safety to ensure that boats will remain outside the swimming area.

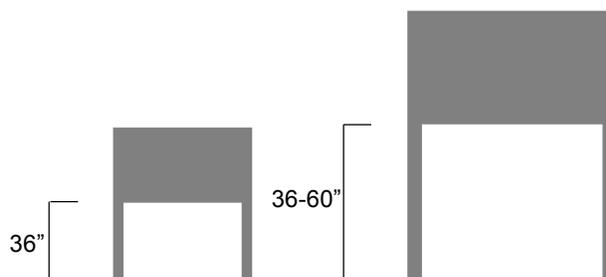
This sign is intended to be viewed from the water; therefore, the legend uses Helvetica Medium typography and adopts the ALU specification code for all applications larger than the A=4" sign size.

Underrule is .125A



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRE-23	4"	66.5"x36"	4"x6"	HDO-3/ALU-3	36-60"	RD/WH
WRE-23	6"	99.875"x54"	6"x8"	ALU-3	36-60"	RD/WH
WRE-23	8"	133.125"x72"	8"x8"	ALU-3	36-60"	RD/WH

*Mounting height will vary with local conditions.



This sign is posted on the beach when the use of inner tubes, water wings, and rubber rafts is restricted. It is fabricated of retroreflective sheeting applied to HDO plywood or aluminum. There are two sizes suggested. The size chosen is determined by the viewing distance

required and by the appropriateness of the size of the sign to the site.

This same legend can also be used on the Area Regulation sign slat shown on page 8-42.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
SWM-03	1.5"	19.75"x13.125"	4"x4"	HDO-5/ALU-5	36"	BR/WH
SWM-03	2"	26.25"x17.5"	4"x4"	HDO-5/ALU-5	36"	BR/WH

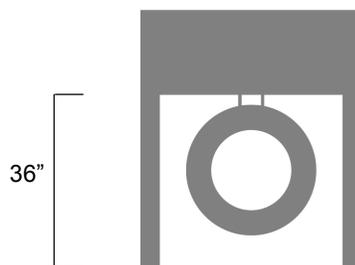


This sign is used in conjunction with a life ring placed along the water's edge. The mounting posts also serve as a support for the ring. If vandalism is a problem, this sign can be fabricated with a black screen printed legend on retroreflective sheeting and applied to HDO plywood or aluminum. It is available in one size. If a beach is large, more than one of these signs may be required.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
SWM-04	3"	45.125"x17.25"	4"x4"	HDO-3/ALU-3	36"	LY/BK

Sign shown with life ring attached.



If a swimming beach must be closed or swimming/wading banned due to water quality problems such as high bacteria counts, the swimming beach or recreation area can be posted with the Warning sign shown here.

The primary wording can be complemented by two optional messages below: "Beach Closed" and "No Swimming or Wading."

The primary wording was chosen to be generic enough to cover a range of water quality problems and health standards, which may vary by state.

These signs are intended for temporary use. Sign must be removed as soon as this situation no longer exists.

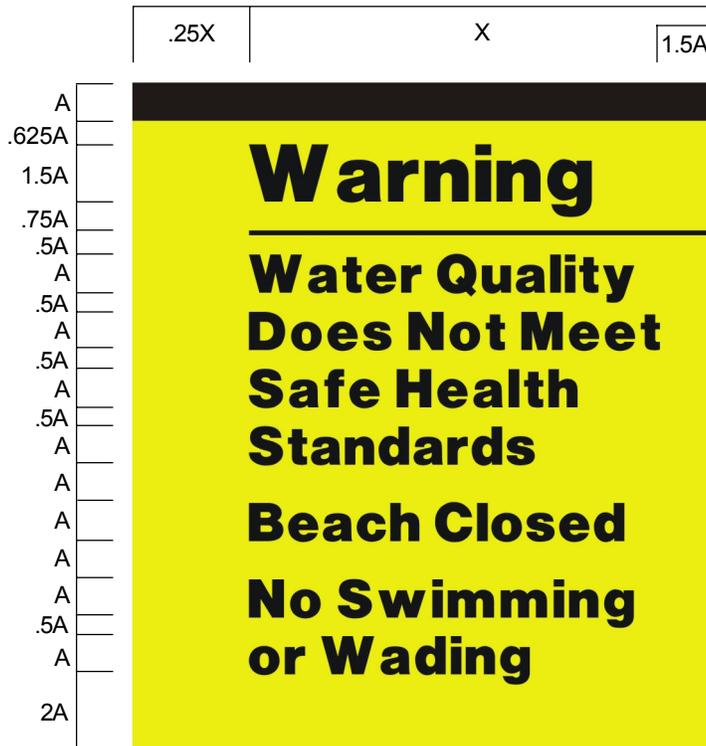
This sign follows the Grid 1 format.

Underrule is .125A

Mandatory legend

Optional legend

Optional legend



Panel size variations:

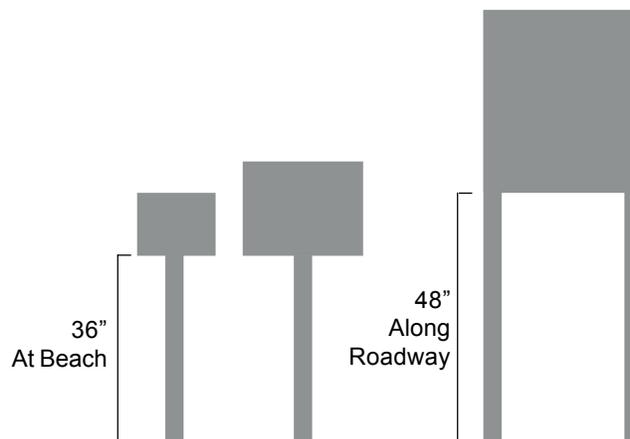
No optional legends:
15.25A x 12A

"Beach Closed" only:
15.25A x 14A

"No Swimming or Wading" only:
15.25A x 15.5A

Sign Type	Legend Size (A)	Panel Size*	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-21	1"	15.25"x17.5"	4"x4"	HDO-5	36"	LY/BK
WRN-21	1.5"	22.875"x26.25"	4"x4"	HDO-5	36"	LY/BK
WRN-21	2"	30.5"x35"	4"x4"	HDO-3	36"-48"	LY/BK

*size with both optional legends; see sidebar notes for panel size variations



Illustrated below is a schematic diagram of a boat ramp. It shows the general location of the six recreation signs that have application in this area. Not all of the signs shown will be used at every boat ramp. The signs used will depend on the conditions of and regulations at a given project. The

specific locations will depend on the layout of and circulation in an actual site.

The mounting heights shown in the matrix for each sign are minimum dimensions intended for ramps with unobstructed sight lines. At locations where viewing may be obstructed,

mounting heights should be raised as required.

Additional signs which may be required for this area will include: Secondary Identification (Section 5), directional (Section 6 and 8), symbols (Section 8), prohibition (Section 8), and traffic (Section 9).

Boat Ramp
Loading and Unloading Only
No Swimming or Wading
No Wake Zone
Idle Speed Only
10 Horsepower Maximum

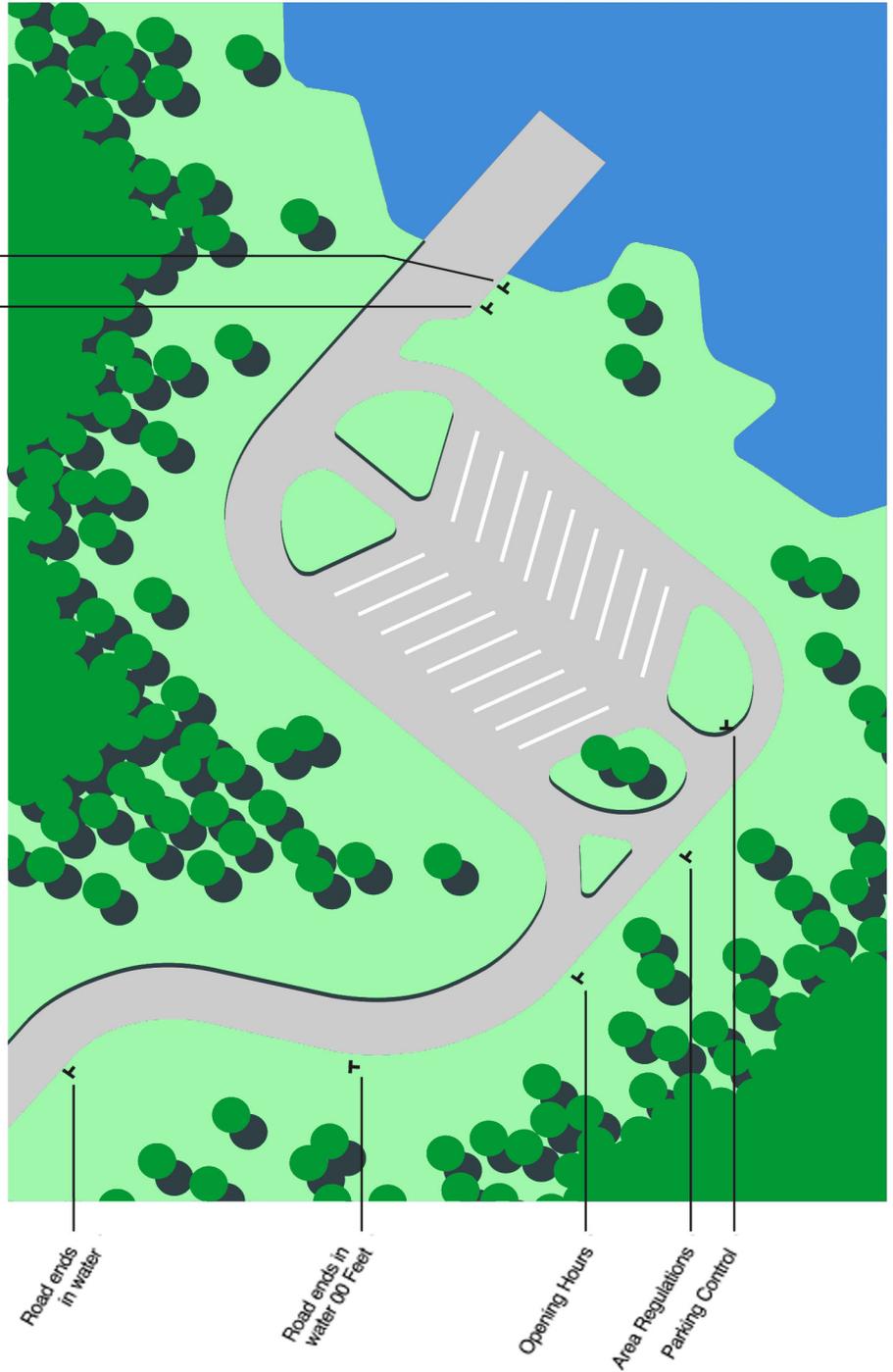
Warning
Submerged Dam 00 Miles Downstream

Warning
Dam 0 Miles Downstream

Caution
No Wake Zone Within 00 Feet of Shoreline
Idle Speed Only

Caution
Water Level Varies
Watch for Obstructions

Boaters Warning
Overhead Power Lines Cross This Lake



*Optional signs: use depends on local conditions. Each sign is mounted on its own post. Legends may not be altered.

This sign is used adjacent to the boat ramp and outlines the rules to follow at the ramp and on the lake or river. The first two messages are mandatory and the third message is mandatory unless sign type BTR-03 (page 7-36) is used.

The fourth message is optional, depending on local project regulations.

It is available in two sizes. The smaller size is used on single lane ramps. The larger size is placed at multilane ramps.

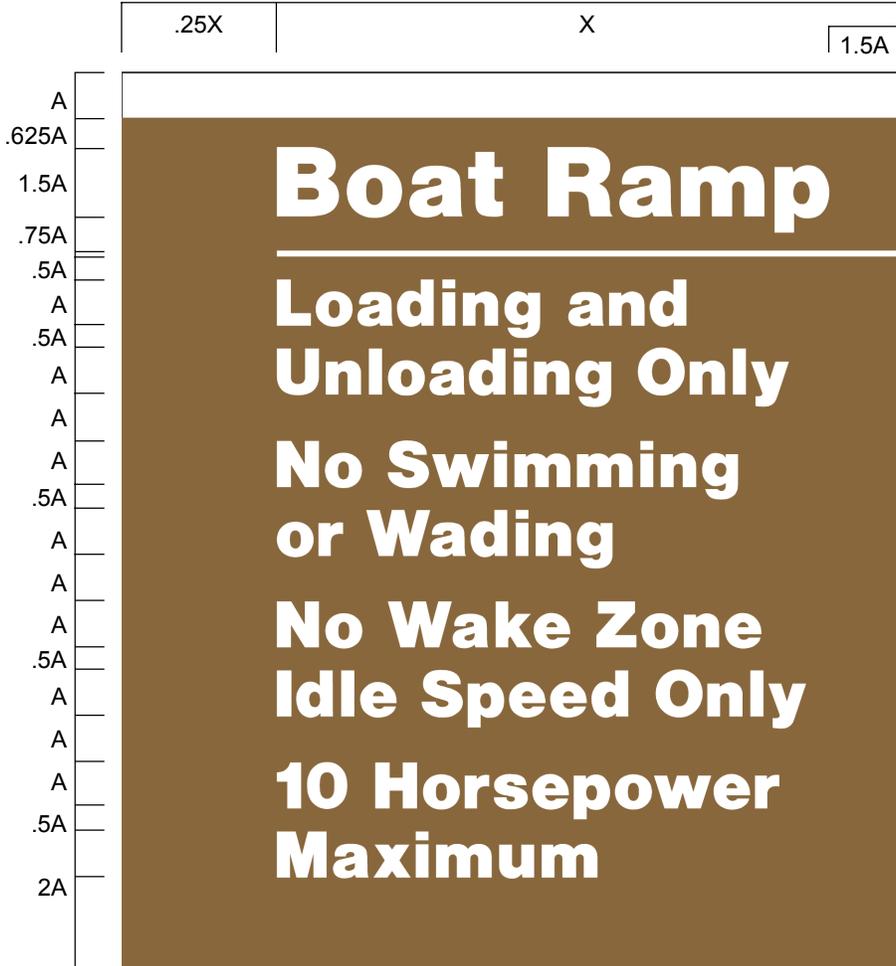
This sign may be created with two to four legends. The standard panel base is 2A below the last legend.

Underrule is .125A.
Mandatory Legend

Mandatory Legend

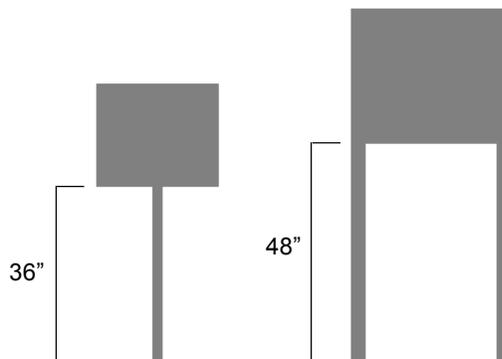
Mandatory Legend, unless BTR-03 (page 7-36) is used.

Optional Legend



*Panel sizes will vary according to the number of legends.

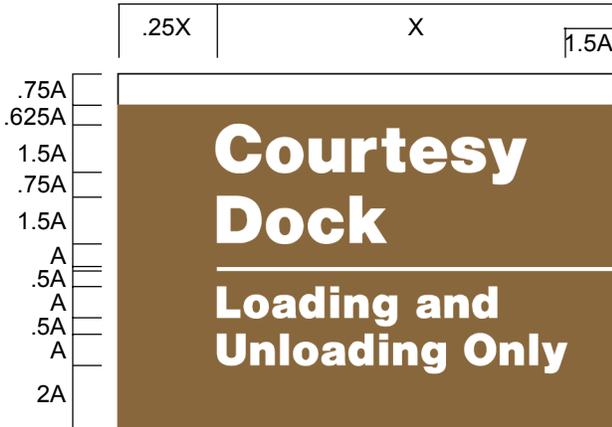
Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-01	1.5"	25.375"x29.25"*	4"x4"	HDO-5/ALU-5	36"	BR/WH
BTR-01	2"	33.75"x39"*	4"x4"	HDO-3/ALU-3	48"	BR/WH



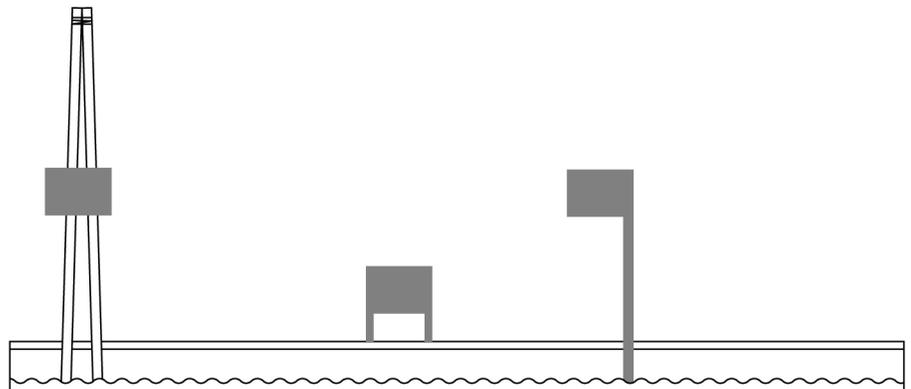
This sign is provided to identify the area at a launch ramp or adjacent to a marina designated for short-term docking to allow boaters to load and unload as needed. This sign is intended for viewing from relatively short distances and should be sized accordingly. Two sizes are specified below.

Because of the wide variety of dock structures and types, mounting format will be specified at the discretion of the project. The sign may be mounted along the edge of a dock or on adjacent piling.

Underrule is .125A



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-07	2"	31.5"x22"	4"x4"	HDO-3/HDO-6 ALU-3/ALU-6	varies	BR/WH
BTR-07	3"	47.25"x33"	4"x4"	HDO-3/HDO-6 ALU-3/ALU-6	varies	BR/WH



The signs below are designated for placement at the boat ramp for easy view by those launching boats.

The first sign is intended to notify boaters where the ramp ends in cases where there is a steep drop beyond the paved area. Specify the distance to be made part of the sign legend when ordering. If this sign is posted, the yellow line must be maintained as part of the installation.

At lake projects where there are underwater obstructions which may be hazardous to boaters, this condition should be identified using the sign specified below.

If vandalism is a problem, signs may be fabricated with a black screen-printed legend on retroreflective sheeting and applied to HDO plywood or aluminum. There are two sizes available. The

smaller size sign is used on single lane ramps; the larger sign on multilane ramps.

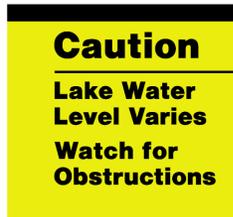
The graphic format shown below follows Grid 1, page 7-63. If local conditions dictate alternate wording consult your district Sign Program Manager for assistance in preparing a request for a nonstandard safety sign (p.1-13).



BTR-08

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-08	1.5"	18.5"x18"	4"x4"	HDO-5	36"	LY/BK
BTR-08	2"	24.625"x24"	4"x4"	HDO-3	48"	LY/BK

Note the actual distance on the Sign Order Worksheet when ordering this sign.



BTR-02



BTR-11

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-02,11	1.5"	20.375"x18"	4"x4"	HDO-5	36"	LY/BK
BTR-02,11	2"	27.25"x24"	4"x4"	HDO-3	48"	LY/BK



BTR-12

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-12	1.5"	27.375"x18"	4"x4"	HDO-5	36"	LY/BK
BTR-12	2"	36.5"x24"	4"x4"	HDO-3	48"	LY/BK

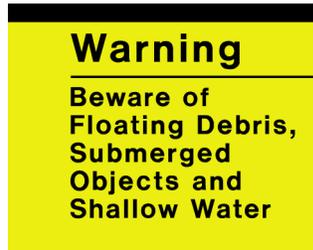


Areas where there are site specific hazards on lakes and waterways need to be marked at relatively close proximity to the hazardous condition. The three signs illustrated below reflect a sign need common to many Corps facilities. These Warning signs are designed to be viewed from the water, placed either on the

shoreline facing the water or mounted on piles or structures located in the water.

These signs are fabricated using specifications for waterway signs (see B.13). These site-specific signs are to be placed near the hazard and are not generally intended for larger-scale posting. Three common sizes are identified below.

If the black adhesive legend of the Warning sign is subject to vandalism, the sign may be fabricated with black screen printed legend on reflective sheeting in lieu of computer cut and applied graphics.



WRN-08

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-08	3"	50.625"x40.5"	4"x4"	WTW-5	60"	LY/BK
WRN-08	4"	67.5"x54"	Engineered	WTW-5	60"	LY/BK
WRN-08	6"	101.25"x81"	Engineered	WTW-5	60"-72"	LY/BK



WRN-09

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-09	3"	50.375"x36"	4"x4"	WTW-5	60"	LY/BK
WRN-09	4"	67.25"x48"	Engineered	WTW-5	60"	LY/BK
WRN-09	6"	100.75"x72"	Engineered	WTW-5	60"-72"	LY/BK



WRN-10

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-10	3"	48.625"x37.5"	4"x4"	WTW-5	60"	LY/BK
WRN-10	4"	64.75"x50"	Engineered	WTW-5	60"	LY/BK
WRN-10	6"	97.125"x75"	Engineered	WTW-5	60"-72"	LY/BK

The two signs below are specified for placement adjacent to a boat ramp.

The first sign is intended to inform boaters of the designated “no wake” zone on the lake or river. If a “no wake” zone has not been established, this sign is not to be posted. Instead, the third legend of BTR-01 (page 7-32) is used to notify boaters that the area immediately around a boat ramp is a no wake zone. When ordering,

specify the distance to be made part of the sign legend.

The second sign is to be posted adjacent to ramps along rivers and waterways if there is a potential hazard from the wake of commercial traffic.

If vandalism is a problem, signs may be fabricated with black screen-printed legend on retroreflective sheeting and

applied to HDO plywood or aluminum. There are two sizes available. The smaller size sign is used on single lane ramps; the larger sign on multilane ramps.

If local conditions dictate alternate wording consult your district Sign Program Manager for assistance in preparing a request for a nonstandard safety sign (p.1-13).

The typeface is Helvetica Bold and follows Corps standard letter and word spacing. The sign panel format uses standard Grid 1, page 7-63.



BTR-03

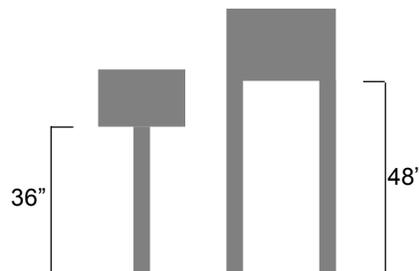
Note size of no wake zone on each Sign Order Worksheet when ordering sign BTR-03.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-03	1.5"	24.375"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
BTR-03	2"	32.5"x24"	4"x4"	HDO-3/ALU-3	48"	LY/BK



BTR-09

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-09	1.5"	27.875"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
BTR-09	2"	37.125"x24"	4"x4"	HDO-3/ALU-3	48"	LY/BK



The signs below are to be posted at boat ramps at projects where power lines cross the water at a height low enough to come into contact with sailboat masts, and along park roads where boaters confront this condition when trailering a sailboat to a launching area.

Since the water level can vary significantly throughout a season, the power line will not be a constant distance from

the water level. Therefore, safe clearance limits are not included in the sign legend.

Signs mounted to identify power lines that cross roads should be placed at the ramp site or at the entrance to a facility or area as appropriate. This may include placement at both the boat ramp and area entrances as well as at the specific hazard site.

If vandalism is a problem, signs may be fabricated with black screen-printed legend on retroreflective sheeting and applied to HDO plywood or aluminum. There are two sizes available. The smaller size sign is used on single lane ramps; the larger sign is used on multilane ramps. Both signs use the Grid 2 format.

For placement at boat ramp where water levels could create a hazard for a boater with a mast or tall antenna.



BTR-04

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-04	1.5"	19.5"x21.375"	4"x4"	HDO-5/ALU-5	36"	LY/BK
BTR-04	2"	26"x28.5"	4"x4"	HDO-5/ALU-5	48"	LY/BK

For placement at entrances or along facility roadways where needed to warn motorists towing a sailboat to a launch location with mast upright.



BTR-10

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-10	1.5"	19.5"x21.375"	4"x4"	HDO-5/ALU-5	36"	LY/BK
BTR-10	2"	26"x28.5"	4"x4"	HDO-5/ALU-5	48"	LY/BK



It is important that boaters be appropriately informed if there are areas where moorage is restricted because of shallow conditions, submerged hazards, or currents that are not consistent. The two signs illustrated below may be used for placement on the shoreline facing toward the water, or on piles or structures

located in the water.

These site specific signs are for placement within close proximity of the hazard, and are not generally intended for larger scale posting. Three common sizes are identified below. If a larger size sign is required, follow layout Grid 1, page 7-63.

These Danger signs are primarily viewed by boaters from the water. The typeface is Helvetica Medium and follows Corps standard letter- and word-spacing for waterway signs (see Typeface and Alternate Letterspacing for Waterway Signs, page 14-1).

If this sign is placed at a boat ramp, it is to be displayed using Helvetica Bold typeface with panel resized accordingly.

The Danger, Caution, and Warning signs used in this manual cannot be changed without approval from the National Sign Program Manager. For the signs listed below, identical legends are approved as both Danger and Warning signs.

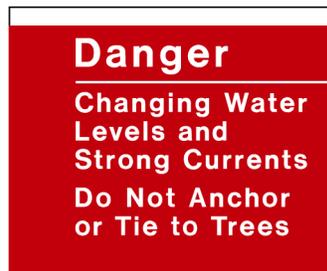
* DNG-12 (above) and sign WWA-22 on page 14-50.

Determination of whether a Danger or Warning sign is to be used will be made by the project manager after considering the conditions and severity of the hazard. Please refer to Safety Signs, Section 2, pages 2-13 through 2-16.



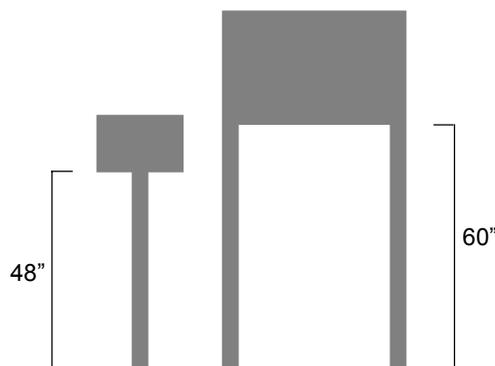
DNG-12

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-12	2"	26.375"x25"	4"x4"	HDO-5/ALU-5	48"-60"	RD/WH
DNG-12	3'	39.5"x37.5"	4"x4"	HDO-3/ALU-3	48"-60"	RD/WH
DNG-12	4"	52.75"x52"	4"x6"	HDO-3/ALU-3	48"-60"	RD/WH



DNG-13

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-13	2"	34.125"x28"	4"x4"	HDO-5/ALU-5	48"-60"	RD/WH
DNG-13	3"	51.25"x42"	4"x4"	HDO-3/ALU-3	48"-60"	RD/WH
DNG-13	4"	68.25"x56"	4"x6"	HDO-3/ALU-3	48"-60"	RD/WH



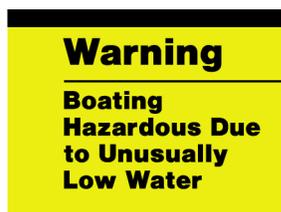
Seasonal and construction related activities may temporarily affect boating conditions at Corps lakes, rivers, and waterways. The three signs illustrated below are available and may be placed adjacent to the boat ramp or other appropriate water access points to warn of potential hazards or unusual conditions that may exist.

These signs are intended for temporary use. Sign must be removed as soon as these hazards no longer exist.

These signs are fabricated of retroreflective sheeting and applied to HDO plywood or aluminum.

The typeface is Helvetica Bold and follows Corps standard letter- and word-spacing. The sign panel format uses standard Grid 1, page 7-63.

There are two common sizes identified below. If a larger size sign is required, follow layout Grid 1, page 7-63.



WRN-05

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-05	1.5"	23.5"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-05	2"	31.375"x24"	4"x4"	HDO-3/ALU-3	48"	LY/BK



WRN-06

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-06	1.5"	27.25"x15.75"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-06	2"	36.375"x21"	4"x4"	HDO-3/ALU-3	48"	LY/BK



WRN-07

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-07	1.5"	27.125"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-07	2"	36.25"x24"	4"x4"	HDO-3/ALU-3	48"	LY/BK

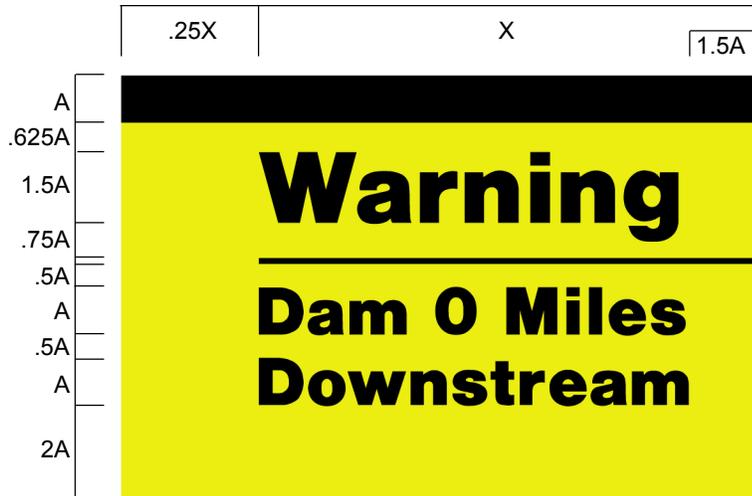


The sign illustrated below and the one on page 7-41 coordinate with and reinforce the lock, dam and waterway safety signs outlined in Section 14. They provide early warning of conditions that exist downstream, using the same format and color scheme as the signs used around the dam.

This sign is used whenever a boat ramp is located 5 miles or fewer upstream from a

gated dam. It is mounted adjacent to the boat ramp, so that all boaters will see it. If vandalism is a problem, signs may be fabricated with black screen-printed legend on retro-reflective sheeting and applied to HDO plywood or aluminum. The sign is available in two sizes. The smaller size sign is used on single lane ramps; the larger sign on multilane ramps.

Underrule is .125A.
Indicate mileage.



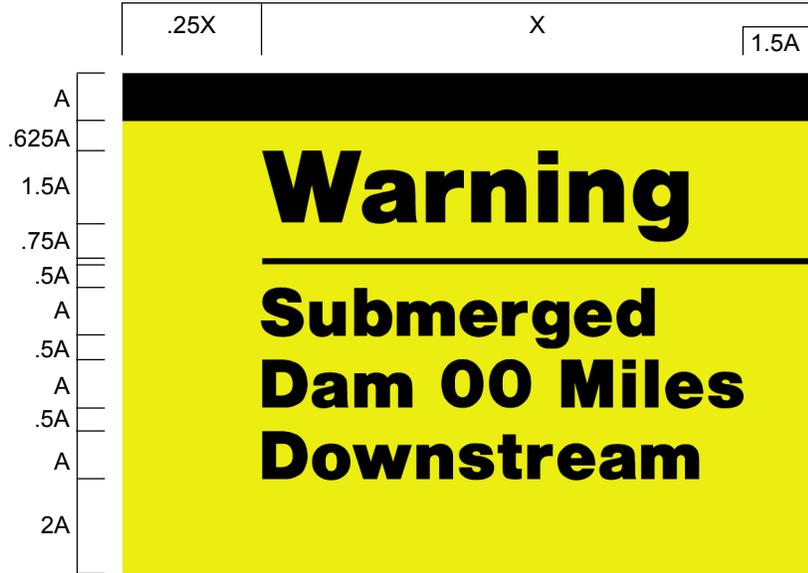
Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-05	1.5"	20"x13.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
BTR-05	2"	26.625"x18"	4"x4"	HDO-3/ALU-3	48"	LY/BK



The sign illustrated below and the one on page 7-40 coordinate with and reinforce the lock, dam, and waterway safety signs described in Section 14. They provide early warning of conditions that exist downstream, using the same format and color scheme as the signs used around the dam.

located upstream from submerged dams, regardless of distance. It is mounted adjacent to the boat ramp. If vandalism is a problem, signs may be fabricated with black screen-printed legend on retroreflective sheeting and applied to HDO plywood or aluminum. The sign is available in two sizes. The smaller size sign is used on single lane ramps; the larger sign on multilane ramps.

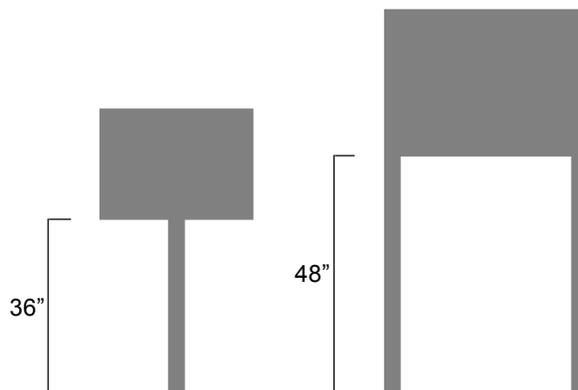
This sign is placed at all boat ramps



Underrule is .125A.

Indicate mileage.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
BTR-06	1.5"	21.875"x15.75"	4"x4"	HDO-5/ALU-5	36"	LY/BK
BTR-06	2"	29.125"x21"	4"x4"	HDO-3/ALU-3	48"	LY/BK



The signs illustrated below may be used to warn project visitors about hazards and to restrict potentially dangerous activity. Unlike the other signs illustrated in this section, they do not relate to a specific functional area at a Corps project, but may be needed anywhere along a lake or river.

The color, typography, and wording of these signs have been chosen for readability and comprehension. They are consistent with the safety signs placed around a lock or dam (see Section 14). Because of this, the wording of particular sign legends should not be changed. If a condition requires a sign with wording

other than what is shown in this manual, there is a procedure for requesting approval for site-specific safety signs (page 1-13).

These signs are intended for relatively short viewing distances. If a large area is to be signed, use more than one sign rather than depending on a single large sign. Placement and sizing of these Undesignated Safety signs should be reviewed with the project Safety Officer.

**In an earlier revision to the Corps Sign Standards Manual, a sign type identification code was added for the new Danger signs (DNG). The original Undesignated Safety signs (UNS) retain the original code to maintain continuity on all plans and program records.



UNS-01



DNG-01

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
UNS-01/DNG-01**	1.5"	17.375"x11.25"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-01/DNG-01**	2"	23.175"x15"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-01/DNG-01**	3"	34.75"x22.5"	4"x4"	HDO-3/ALU-3	36"	RD/WH
UNS-01/DNG-01**	4"	46.375"x30"	4"x4"	HDO-3/ALU-3	36"	RD/WH



UNS-06

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
UNS-06	1.5"	22.5"x13.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-06	2"	30"x18"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-06	3"	45"x27"	4"x4"	HDO-3/ALU-3	36"	RD/WH
UNS-06	4"	60"x36"	4"x4"	HDO-3/ALU-3	36"	RD/WH



DNG-02

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-02	1.5"	20.375"x13.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-02	2"	27.25"x18"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-02	3"	40.75"x27"	4"x4"	HDO-3/ALU-3	36"	RD/WH
DNG-02	4"	54.375"x36"	4"x4"	HDO-3/ALU-3	36"	RD/WH



The function of the site-specific custom sign is to alert project visitors to conditions which potentially could affect their use of the area. Undesignated safety signs are for general application. Since conditions requiring these signs are largely project or regionally specific, sizing and mounting information is not detailed.

The approved signs are fabricated with retroreflective sheeting applied to HDO plywood or aluminum. This sign panel format uses Standard Grid 1, p. 7-63. Other site-specific Danger, Restricted, Warning, and Caution signs are illustrated throughout this section, and waterway versions are displayed in Section 14. All signs viewed from the

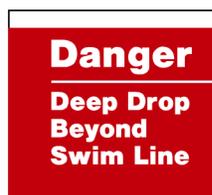
land have legends in the Helvetica Bold typeface. Legends on waterway signs are Helvetica Medium typeface and are to be sized to site-specific viewing requirements. Approved Danger and Caution messages using the Workplace Safety sign formats are provided on pages 11-4 through 11-7.

** In an earlier revision to the Corps Sign Standards Manual, a sign type identification code was added for the new Danger signs (DNG). The original Undesignated Safety signs (UNS) retain the original code to maintain continuity on all plans and program records.



Enter sign type code on sign order as shown under respective sign panel display.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
UNS-00/DNG-00**	1.5"	17.375"x13.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-00/DNG-00**	2"	23.125"x18"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-00/DNG-00**	3"	34.75"x27"	4"x4"	HDO-3/ALU-3	36"	RD/WH
UNS-00/DNG-00**	4"	46.25"x36"	4"x4"	HDO-3/ALU-3	36"	RD/WH



DNG-06

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-06	1.5"	17.375"x15.75"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-06	2"	23.125"x21"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-06	3"	34.75"x31.5"	4"x4"	HDO-3/ALU-3	36"	RD/WH
DNG-06	4"	46.25"x42"	4"x4"	HDO-3/ALU-3	36"	RD/WH

Public use and enjoyment of the recreational opportunities afforded by Corps navigation and flood control projects remain important goals of project operations. While the Corps endeavors to make project visitors and boaters aware of and respectful towards potential

hazards, it also recognizes that not all such visitors have basic knowledge of common dangers, or are cognizant of safety practices. The responsibility for these matters must rest primarily with project visitors, aided to the extent practical by an aggressive public informa-

tion and signage program. With careful consideration and planning for the placement of cautionary signs, public safety and enjoyment can be maximized without infringing on the effective and productive management of the project.

These signs are intended for relatively short viewing distances. If a large area is to be signed, use more than one sign rather than depending on a single large sign. Placement and sizing of these Undesignated Safety signs should be reviewed with the project safety officer.



UNS-07



UNS-08



UNS-09

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
UNS-07(08,09)	1.5"	21.625"x15.75"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-07(08,09)	2"	28.75"x21"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-07(08,09)	3"	43.125"x31.5"	4"x4"	HDO-3/ALU-3	36"	RD/WH
UNS-07(08,09)	4"	57.625"x42"	4"x6"	HDO-3/ALU-3	36"	RD/WH



UNS-10

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
UNS-10	1.5"	18.25"x15.75"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-10	2"	24.375"x21"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-10	3"	36.5"x31.5"	4"x4"	HDO-3/ALU-3	36"	RD/WH
UNS-10	4"	48.75"x42"	4"x6"	HDO-3/ALU-3	36"	RD/WH



UNS-11

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
UNS-11	1.5"	18"x15.75"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-11	2"	24"x21"	4"x4"	HDO-5/ALU-5	36"	RD/WH
UNS-11	3"	36"x31.5"	4"x4"	HDO-3/ALU-3	36"	RD/WH
UNS-11	4"	48.125"x42"	4"x6"	HDO-3/ALU-3	36"	RD/WH

Caution**Pesticides
Recently Applied
in This Area**

WRN-12

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-12	1.5"	26"x15.75"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-12	2"	34.625"x21"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-12	3"	51.875"x31.5"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-12	4"	69.25"x42"	4"x6"	HDO-3/ALU-3	48"	LY/BK

Caution**Unsafe Ice
Conditions
May Exist**

WRN-13

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-13	1.5"	18.5"x15.75"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-13	2"	24.625"x21"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-13	3"	37"x31.5"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-13	4"	49.375"x42"	4"x6"	HDO-3/ALU-3	48"	LY/BK

Caution**Watch for
Trains**

WRN-14

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-14	1.5"	18.5"x13.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-14	2"	24.625"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-14	3"	37"x27"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-14	4"	49.375"x36"	4"x6"	HDO-3/ALU-3	48"	LY/BK

Warning**Beware of
Alligators**

WRN-16

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-16	1.5"	19.5"x13.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-16	2"	26"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-16	3"	39.125"x27"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-16	4"	52"x36"	4"x6"	HDO-3/ALU-3	48"	LY/BK



DGN-17

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-17	1.5"	21.875"x13.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-17	2"	29.125"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-17	3"	43.625"x27"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-17	4"	58.25"x36"	4"x6"	HDO-3/ALU-3	48"	LY/BK



WRN-18

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-18	1.5"	24.5"x13.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-18	2"	32.625"x18"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-18	3"	49"x27"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-18	4"	65.25"x36"	4"x6"	HDO-3/ALU-3	48"	LY/BK



WRN-19

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-19	1.5"	24.25"x14.25"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-19	2"	32.375"x19"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-19	3"	48.5"x28.5"	4"x4"	HDO-3/ALU-3	48"	LY/BK
WRN-19	4"	64.75"x38"	4"x6"	HDO-3/ALU-3	48"	LY/BK



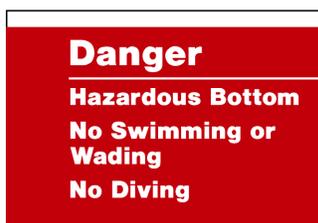
DNG-14

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-14	1.5"	27.625"x19.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
DNG-14	2"	36.75"x26"	4"x4"	HDO-5/ALU-5	36"	LY/BK
DNG-14	3"	55.125"x39"	4"x4"	HDO-3/ALU-3	48"	LY/BK
DNG-14	4"	73.5"x52"	4"x6"	HDO-3/ALU-3	48"	LY/BK



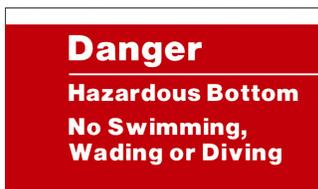
DNG-15

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-15	1.5"	29.25"x26.25"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-15	2"	39"x35"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-15	3"	58.5"x52.5"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-15	4"	78"x70"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-17

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-17	1.5"	28.125"x19.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-17	2"	37.5"x26"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-17	3"	56.25"x39"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-17	4"	75"x52"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-17r

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-17r	1.5"	28.125"x16.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-17r	2"	37.5"x22"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-17r	3"	56.25"x33"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-17r	4"	75"x44"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-18

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-18	1.5"	24.875"x17.25"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-18	2"	33.25"x23"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-18	3"	49.875"x34.5"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-18	4"	66.5"x46"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-19

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-19	1.5"	24.5"x14.25"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-19	2"	36.625"x19"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-19	3"	49"x28.5"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-19	4"	65.25"x38"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-20

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-20	1.5"	25.75"x16.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-20	2"	34.375"x22"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-20	3"	51.5"x33"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-20	4"	68.625"x44"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-21

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-21	1.5"	25"x14.25"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-21	2"	33.375"x19"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-21	3"	50.125"x28.5"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-21	4"	66.875"x38"	4"x6"	HDO-3/ALU-3	48"	RD/WH



DNG-22

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-22	1.5"	22.875"x16.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-22	2"	30.5"x22"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-22	3"	45.625"x33"	4"x4"	HDO-3/ALU-3	48"	RD/WH
DNG-22	4"	60.875"x44"	4"x6"	HDO-3/ALU-3	48"	RD/WH

Specific areas in and around a water project are restricted to maintain safety and security. Access to restricted or hazardous areas around a dam or waterway should be controlled using the appropriate combination of fencing and signs.

However, an over-proliferation of less important signs will cause critically important messages to lose their impact. Secondly, signs should only be as large as necessary. Overly large signs of this type will not necessarily increase the quality of communications desired.

All restricted and U.S. Government property signs specified in Section 14 and Workplace Safety signs shown in Section 11 may be used in lieu of the signs shown below if more appropriate; however, all sign placement of a given type must be consistent throughout the area being signed.

These signs are for land-side viewing only and are shown with Helvetica Bold legends. These land-side signs are generally placed for pedestrian viewing and need not be overly large; see Viewing Distance Guide, page 2-6.



RES-01

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RES-01	.75"	11.875"x5.625"	4"x4"	HDO-5/HDO-6/ ALU-5/ALU-6	36"-60"	RD/WH



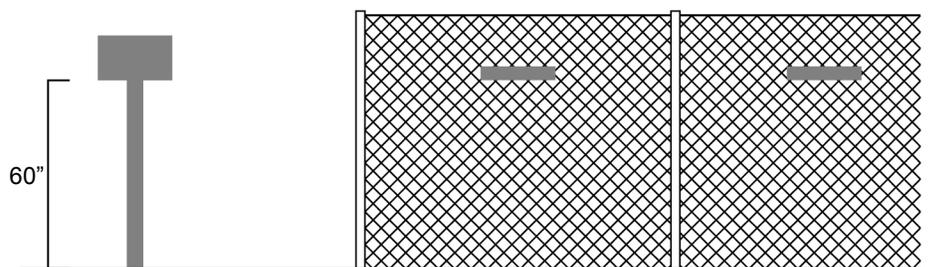
RES-01

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RES-02	.75"	11.875"x6.75"	4"x4"	HDO-5/HDO-6/ ALU-5/ALU-6	36"-60"	RD/WH



RES-01

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
RES-03	.75"	11.875"x7.875"	4"x4"	HDO-5/HDO-6/ ALU-5/ALU-6	36"-60"	RD/WH



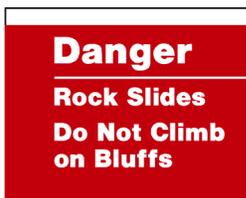
If trail users do not respect the trail environment they may suffer injury, their action may destabilize the trail, or others could be injured as a result. The three safety signs shown below are intended for use along trails to identify potentially hazardous conditions and instruct trail users on the basic rules of trail environments.

Because trails are narrow and viewing distances relatively short, the sizes specified for these three signs are small.

Generally the smaller (A=1") size is recommended unless viewing conditions require a larger sign. This small size is also intended to make maintenance easier and less expensive, assuming out of the

way installations may be vandalized more frequently than a sign within a developed project area.

The graphic format shown below follows Grid 1, page 7-63. If conditions dictate alternate wording consult your district Sign Program Manager for assistance.



DNG-07

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-07	1"	13.875"x11"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-07	1.5"	20.875"x16.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH



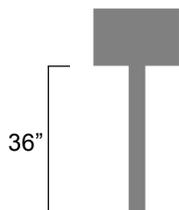
WRN-01

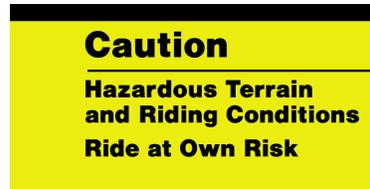
Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-01	1"	13.5"x11"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-01	1.5"	20.25"x16.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK



DNG-08

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-08	1"	14.125"x11"	4"x4"	HDO-5/ALU-5	36"	RD/WH
DNG-08	1.5"	21.25"x16.5"	4"x4"	HDO-5/ALU-5	36"	RD/WH





WRN-15

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-15	1"	22.125"x11"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-15	1.5"	33.125"x16.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK

The word "Trail" may be replaced with "Park," "Area," etc., as the situation dictates.



WRN-20

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-20	1"	15.75"x10.5"	4"x4"	HDO-5/ALU-5	36"	LY/BK
WRN-20	1.5"	23.5"x21"	4"x4"	HDO-5/ALU-5	36"	LY/BK

Seasonal flooding or unusually high water conditions may create public hazards at Corps facilities. During these conditions, access to flooded areas shall be prohibited. The three Danger signs displayed below may be placed at swimming areas, entrances, and along project roads. These flood condition signs are intended

for temporary use and it is imperative that they be removed once flood waters recede or when the hazard no longer exists.

The typeface is Helvetica Bold and follows Corps standard letter- and word-spacing. The sign panel format uses standard Grid

1. If a larger size sign is required, follow the specified format on page 7-63.

The signs are fabricated with retro-reflective sheeting applied to HDO plywood or aluminum. There are two common sizes identified below.



DNG-09

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-09	2"	28.75"x21"	4"x4"	HDO-3/ALU-3	36"-60"	RD/WH
DNG-09	3"	43.125"x31.5"	4"x4"	HDO-3/ALU-3	36"-60"	RD/WH



DNG-10

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-10	2"	28"x18"	4"x4"	HDO-3/ALU-3	36"-60"	RD/WH
DNG-10	3"	42"x27"	4"x4"	HDO-3/ALU-3	36"-60"	RD/WH



DNG-11

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
DNG-11	2"	28"x18"	4"x4"	HDO-3/ALU-3	36"-60"	RD/WH
DNG-11	3"	42"x27"	4"x4"	HDO-3/ALU-3	36"-60"	RD/WH

Bicycle riding on dam structures can be extremely dangerous because bicycle tires can easily get caught in expansion joints, mechanical access points, and the seating frame around a walkway grate. On structures that are also part of the state or county highway system, or where access is open to the public, bike riders must be warned that these conditions exist.

The sign illustrated below is designed for placement at access points to roads on top of dam structures and areas adjacent to lock walls where a hazard exists and the facilities are used by bicycle riders.

These signs are fabricated with retro-reflective sheeting applied to HDO plywood or aluminum. These signs are to be

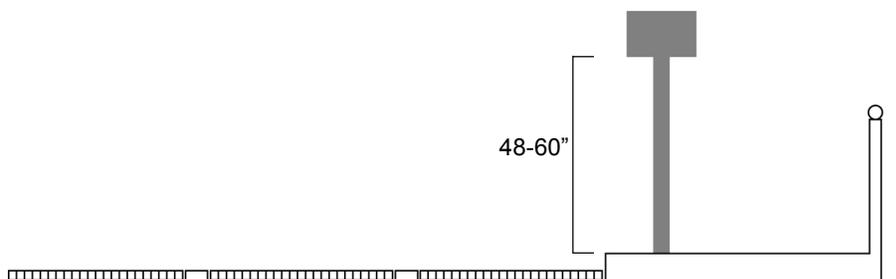
placed on the right side of the roadway. If there is a sidewalk that is physically separated from the road by a barrier, place the sign on the barrier for view from either approach. There are two sizes available, with the smaller size sign used on single-lane roadways; the larger sign on multilane roads.

The typeface is Helvetica Bold and follows Corps standard letter- and word-spacing. The sign panel format uses standard Grid 1, page 7-63.



WRN-04

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-04	1.5"	19.5"x21"	4"x4"	HDO-5/ALU-5	48"	LY/BK
WRN-04	2"	26"x28"	4"x4"	HDO-5/ALU-5	60"	LY/BK



The sign shown below is used to notify boaters traveling upstream and downstream of underwater cables to prevent anchoring and dredging in this area.

The sign can be used anywhere to protect communication cables or other transmission systems lying on the river bed. This can be either temporary while construction is in progress, or permanently to protect electrical cables connected to water

meters or other lock and dam signal devices.

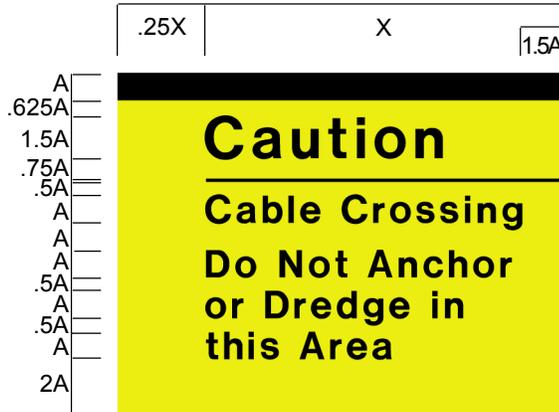
Mounting configuration is to be determined by local conditions and may be perpendicular or parallel to the boaters approach.

Place signs on both sides of the marked section of waterway.

It is recommended that the sign be

mounted so that it tilts slightly forward and is slightly angled so that it is not directly head on to approaching vessels. Tilting it forward will provide some protection from environmental damage (e.g., precipitation and bird droppings). Both the tilting and the angling will prevent the sign from reflecting back a blinding glare when towboats shine their powerful searchlights on it as they approach a lock at night.

Underrule is .125A

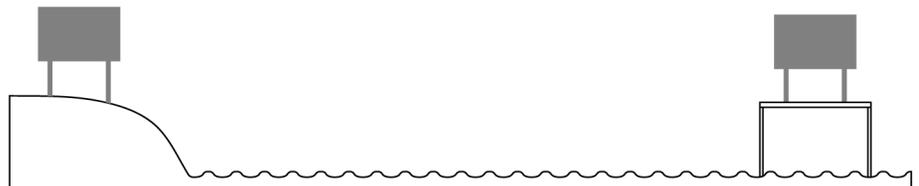


WRN-11

Sign background color is Lemon Yellow retroreflective sheeting with black non-retroreflective legend, overbar and rule.

The typeface is Helvetica Medium and follows Corps standard letter- and word-spacing for waterway signs (see note, page 14-1). The sign panel format is the same format used for the sign on page 7-32.

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
WRN-11	A	16.375A x 12A	Engineered	WTW-3/5/6	60"	LY/BK



The Opening Hours sign shown below informs project or facility users of public operating hours and seasonal closures. It is placed at the entrance of a project, or at the entrance to individual facilities within a project.

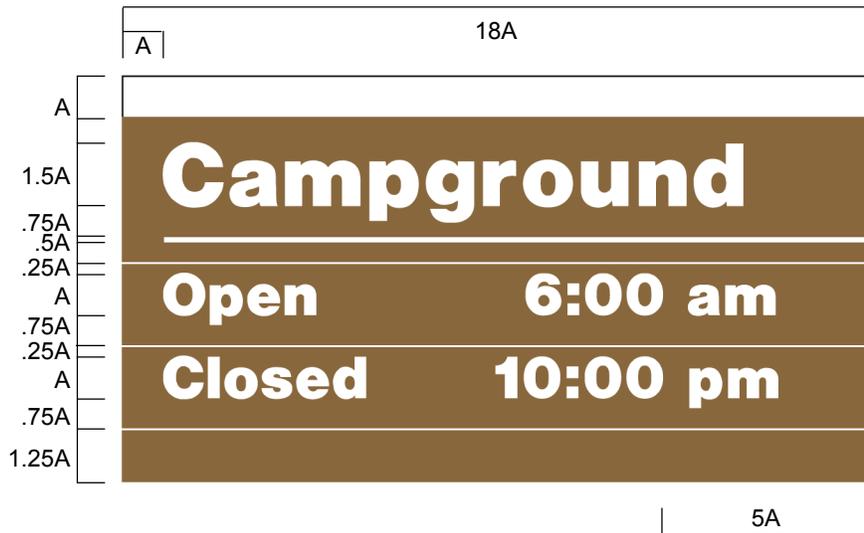
The sign panel is fabricated of retroreflective sheeting applied to HDO plywood. The header panel and base strip are

permanently attached to the back-up HDO panel, with glue and wood screws. The two insert strips, one for the opening time and one for the closing time, are individually screw-mounted to the back-up panel, without glue. With this mounting method, the strips with specific times can be changed, without replacing or refinishing the entire sign panel.

The two formats for this sign are modified versions of the standard recreation Grids 1 and 2.

There are three legend sizes available. The small one is for mounting on walls. The larger two are for free standing ground-mounted signs on two posts. Note that the legend size of the header panel is 1.5A.

Header panel and base; Format A



Underrule is .125A.

Opening Hours insert strip

Closing Hours insert strip

Note: 5A measurement is from right edge of 0 in 10:00, not from left edge of p in pm.

Header panel and base; Format B

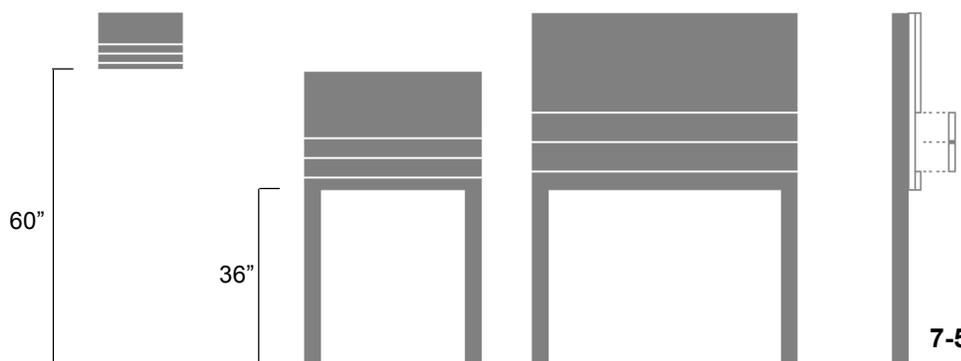


Underrule is .125A.

Example shows use of strips to inform visitors that an area is closed. The second strip gives the opening date.

Illustration shows both wall and ground-mounted signs.

Panel Assembly: Header panel (.5" HDO plywood) and base strip are attached to sign back (.75" HDO plywood). Replaceable Hours strips (.5" HDO plywood) are screwed to sign panel assembly. Refer to Appendix B for complete HDO-8 specifications.



Shown below are standard Opening Hours closing times to be placed on individual panels. Only the different header panels are shown in the display. The panel size noted in the matrix below includes the entire panel assembly.

Custom headers can be created to fit local situations.

When ordering, specify the opening and

Header panel: Format A

Note: (A) is size of individual replacement hours strips. Header panel letters are 1.5(A).



HRS-01



HRS-02



HRS-03



HRS-04



HRS-05



HRS-06



HRS-07

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
HRS-00	1"	18"x9.75"	-	HDO-8	60"	BR/WH
HRS-00	2"	36"x19.5"	4"x4"	HDO-8	36"	BR/WH
HRS-00	3"	54"x29.25"	4"x4"	HDO-8	36"	BR/WH

Header panel: Format B

Note: (A) is size of individual replacement hours strips. Header panel letters are 1.5(A).



HRS-09



HRS-10



HRS-11



HRS-12



HRS-13

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
HRS-00	1"	18"x12"	-	HDO-8	60"	BR/WH
HRS-00	2"	36"x24"	4"x4"	HDO-8	36"	BR/WH
HRS-00	3"	54"x36"	4"x4"	HDO-8	36"	BR/WH

Individual replacement hours strips



HRS-14



HRS-15



HRS-16



HRS-17

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
HRS-00	1"	18"x2"	-	HDO-8	-	BR/WH
HRS-00	2"	36"x4"	-	HDO-8	-	BR/WH
HRS-00	3"	54"x6"	-	HDO-8	-	BR/WH

Entrances to designated national trails that traverse Corps projects are to be identified using approved trail markers. These include the Pacific Crest National Scenic Trail, Appalachian Trail, Oregon National Historic Trail, Lewis and Clark National Historic Trail, and other designated national recreation trails.

Below are some of the trail marker crests with an illustration that shows how these markers are to be used on approach roadways, project roads, and trails. The identification marker is available in three sizes. The largest panel (18") is intended for placement along approach roadways where a designated trail may originate or cross the roadway. Similarly the 9" panel

is for placement along slow speed project roadways. The smaller panel is to be placed for trail identification by pedestrians.

For signing trails other than national trails, consult the district Sign Program Manager.

The name of the national recreation trail must be incorporated into the crest artwork on TR-001 in a way that is similar to the way trail names are displayed on TR-002, TR-003 and TR-004 in the three displays to the right.



TR-001



TR-002



TR-003

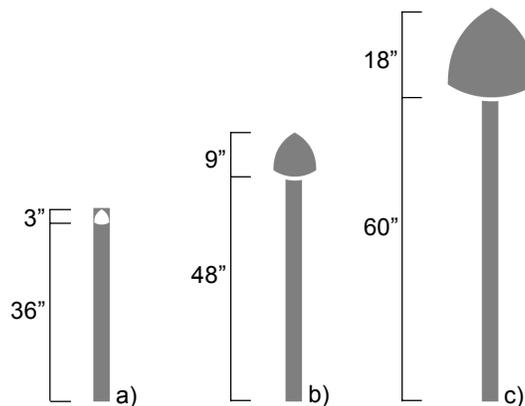


TR-004



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
TR-000	-	3"x3"	4"x4"	FSM-7	36"	BR/WH
TR-000	-	9"x9"	4"x4"	HDO-5	48"	BR/WH
TR-000	-	18"x18"	4"x4"	HDO-5	60"	BR/WH

- a) Trail mount: 3"
- b) Road mount: 9"
- c) Highway mount: 18"



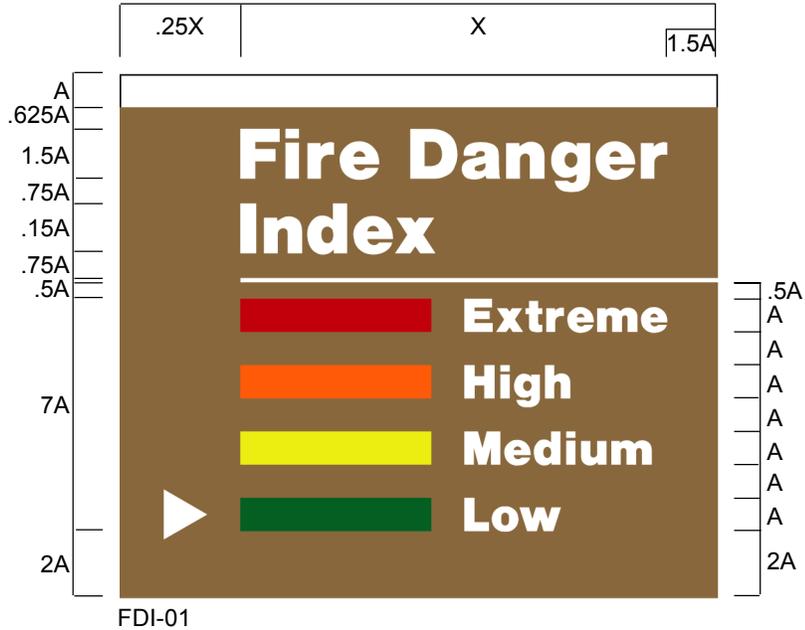
At many projects, especially in the areas west of the Mississippi River that become very dry in late summer and fall, the danger of forest fires is extreme. This sign may be used to inform visitors of fire danger. Fire Danger Index signs may be placed on the road fronting a project, or

at the entrance to a specific area. Two different sizes of the signs are shown. The larger is intended for highway applications and may be constructed as a double-face installation mounted perpendicular to the road. The small size is for intraproject installations.

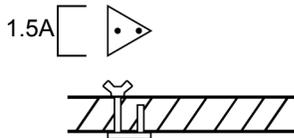
The sign is shown with a moveable indicator that can be appropriately placed by project personnel. The indicator scale consists of vinyl strips in standard retro-reflective colors.

Sign background is Corps Brown with white legend. The rectangular vinyl strips denoting levels of fire danger use the same standard retroreflective colors used for highway sign applications. These include red, orange, yellow and green as shown on page 4-6.

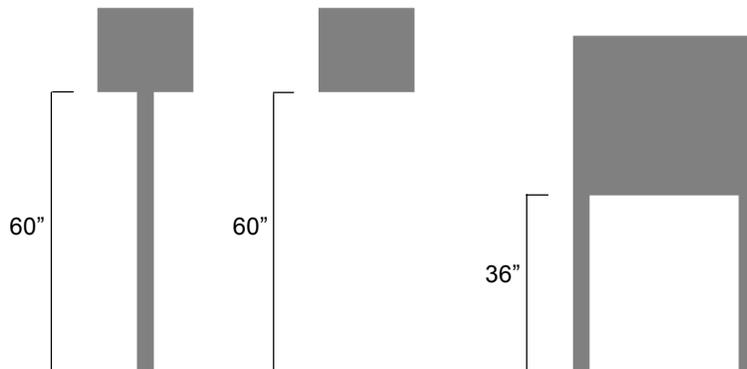
Underrule is .125A



The indicator arrow is an aluminum triangle, cut to the proportions noted. Weld two threaded aluminum studs to the back of the arrow with one projecting far enough through the back of the sign so that a wing nut can be screwed on. The other is used for alignment.



Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
FDI-01	1"	18"x15.75"	4"x4"	HDO-5/HDO-6/ ALU-5/ALU-6	60"	BR/WH
FDI-01	3"	53.875"x47.25"	4"x4"	HDO-3/ALU-3	36"	BR/WH



During dry seasons and drought conditions, the danger of forest fires increases dramatically. The sign specified below is provided for use as needed to warn visitors that this hazard exists. The Fire Danger Index sign may also be used to inform visitors of current conditions (see

page 7-59). If fires are not allowed in an area, post the "No Fires" Prohibition Symbol sign PS-042 (Section 8).

The standard sizes specified are relatively small and are intended for site specific posting similar to the way

Undesignated Safety signs and Prohibition Symbol signs are displayed.

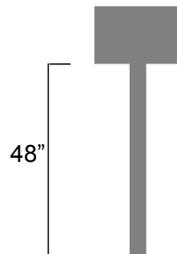
This sign is intended for temporary use, and must be removed as soon as the hazard no longer exists.

The typeface is Helvetica Bold and follows Corps standard letter- and word- spacing. The sign panel format uses standard Grid 1, page 7-63.



FDI-02

Sign Type	Legend Size (A)	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
FDI-02	1"	15.375"x10.5"	4"x4"	HDO-5/ALU-5	48"	LY/BK
FDI-02	1.5"	23.125"x15.75"	4"x4"	HDO-5/ALU-5	48"	LY/BK

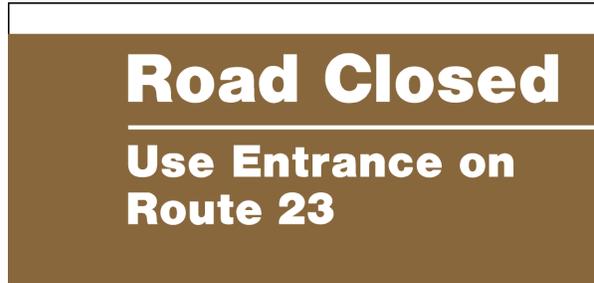


The system of recreation signs illustrated in this section is comprehensive. It addresses the basic activities occurring on Corps projects. However, there may be local situations or conditions that will need site-specific signs. It is important that these signs follow the format of recreation signs. Standard sign layout grids are specified on pages 7-63 through

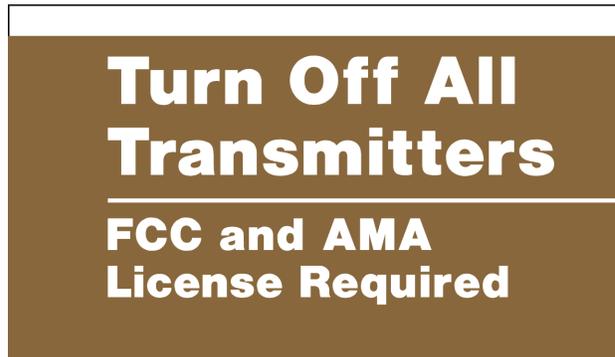
7-65. The grid used will be determined by the legend required. For assistance in formulating special legends and utilizing the grids, contact your district Sign Program Manager.

Shown below are three examples of one-of-a-kind signs.

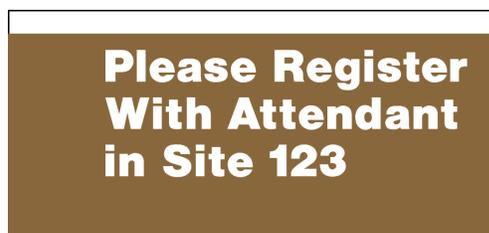
Special sign using Grid 1, page 7-63.



Special sign using Grid 2, page 7-64.



Special sign using Grid 3, page 7-65.



An Electronic Display Sign (EDS), also known as a variable message sign, is a programmable lighted sign that can be used indoors as well as out. The messages displayed can be easily changed to meet current needs. Signs of this type may be used to enhance communications with visitors and to supplement approved signs.

An EDS may not be used in lieu of existing signs approved in the sign manual. An EDS might typically be used at a visitor center or the entrance to a major recreation area or other high traffic area to advertise interpretive programs, announce special events, display water safety messages, or to advise of special conditions.

The National Sign Standards Program does not provide specifications for these signs, nor does it recommend or list specific manufacturers.



For custom signs with a one-line headline, use the grid illustrated below. The height of capital letters used for the legend, referred to as A, is the basic unit on which all measurements are based. Refer to the chart on page 2-6, Viewing Distance Guide, to determine the required letter size for the primary sign legend. No

matter what letter size is chosen, the proportional relationships shown in the grid will remain the same.

The legend can be one or more lines. Regardless of the number of lines used, the bottom of the sign panel is 2A units below the baseline of the last legend line.

This grid is used for creating custom signs with codes CST-01 and CST-04. (The CST-04 version of the grid is used for signs intended to be viewed from the water. The spacing between the letters is slightly wider.)

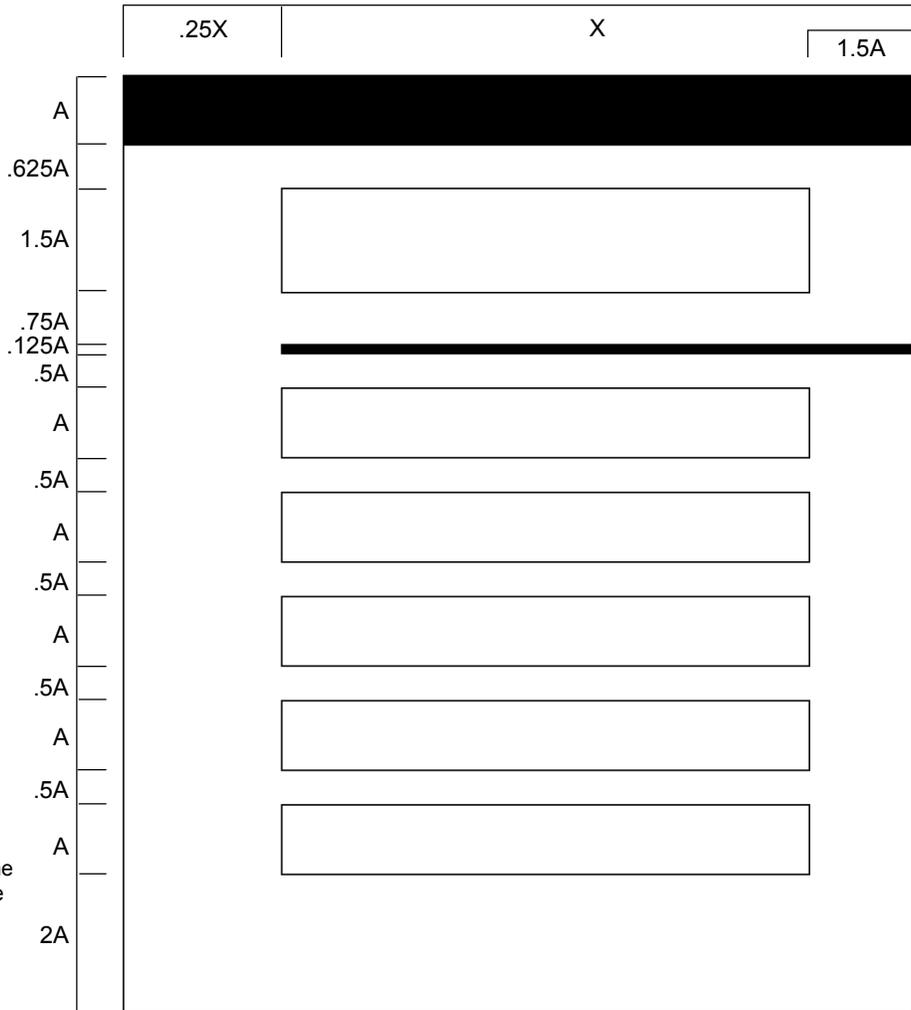
Signal words or headline

Underrule

Primary sign legend

The grid shown is for a legend with a single message. For signs with more than one message (see BTR-01, page 7-32), place a line space equal to A between the messages.

The distance X indicates the width of the longest line of the sign legend plus the distance (1.5A) from the end of that line to the right edge of the panel. To calculate the overall width of the sign panel, multiply the distance X by 1.25.



For custom signs with a two-line headline, use the grid illustrated below. The height of capital letters used for the legend, referred to as A, is the basic unit on which all measurements are based. Refer to the chart on page 2-6, Viewing Distance Guide, to determine the required letter size of the primary sign

legend. No matter what letter size is chosen, the proportional relationships shown in the grid will remain the same.

The legend can be one or more lines. Regardless of the number of lines used, the bottom of the sign panel is 2A units below the baseline of the last legend line.

This grid is used for creating custom signs with codes CST-02 and CST-05. (The CST-05 version of the grid is used for signs intended to be viewed from the water. The spacing between the letters is slightly wider.)

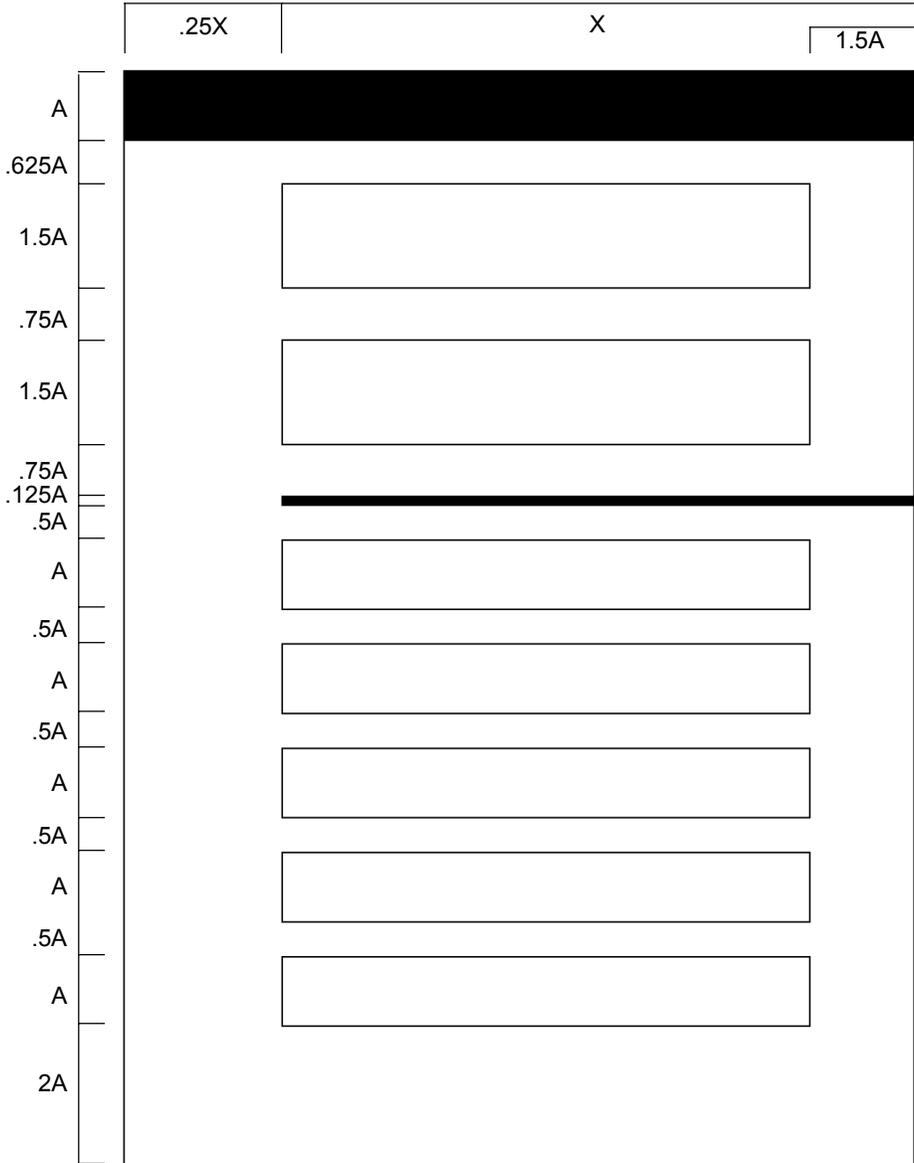
Signal words or headline

Underrule

Primary sign legend

The grid shown is for a legend with a single message. For signs with more than one message (see BTR-01, page 7-32), place a line space equal to A between the messages.

The distance X indicates the width of the longest line of the sign legend plus the distance (1.5A) from the end of that line to the right edge of the panel. To calculate the overall width of the sign panel, multiply the distance X by 1.25.



For custom signs with a legend and no headline, use the grid illustrated below. The height of capital letters used for the legend, referred to as A, is the basic unit on which all measurements are based. Refer to the chart on page 2-6, Viewing Distance Guide, to determine the required letter size. No matter what letter

size is chosen, the relationships shown in the grid will remain the same.

The legend can be one or more lines. Regardless of the number of lines used, the bottom of the sign panel is 2A units below the baseline of the last legend line.

This grid is used for creating custom signs with codes CST-03 and CST-06. (The CST-06 version of the grid is used for signs intended to be viewed from the water. The spacing between the letters is slightly wider.)

The grid shown is for a legend with a single message. For signs with more than one message (see BTR-01, page 7-32), place a line space equal to A between the messages.

The distance X indicates the width of the longest line of the sign legend plus the distance (1.5A) from the end of that line to the right edge of the panel. To calculate the overall width of the sign panel, multiply the distance X by 1.25.

