BANGLADESH ROAD SIGN MANUAL
Traffic Signs Manual

Volume 2
Appendices

Bangladesh Road Transport Authority
Ministry of Communication
GOVERNMENT OF THE PEOPLE’S REPUBLIC OF BANGLADESH

TRAFFIC SIGNS MANUAL

VOLUME 2 OF 2 - APPENDICES

Bangladesh Road Transport Authority
Ministry of Communications

MARCH 2000
J. Appendices

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J2  Sign Lettering (Bangla and English)

J3  Layout of Route Signs

J4  Destinations to be shown on Route Signs
J1 Working Drawings
Notes:—
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:—
- RED
- WHITE
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Colours:
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- WHITE
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Colours:—
- [ ] BLACK
- [ ] RED
- [ ] WHITE

SCALE 1:5.5
Notes:—
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:—
- BLACK
- RED
- WHITE

SCALE 1:5.5
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- BLACK
- YELLOW
- RED
- WHITE
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Notes:
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Colours:
- BLACK
- RED
- WHITE
Notes:
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Colsours:
- BLACK
- RED
- WHITE

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Colours:
- BLACK
- RED
- WHITE

Scale 1:5.5
Notes:
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Scale 1:5.5

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BANGLADESH ROAD TRANSPORT AUTHORITY

TRAFFIC SIGNS MANUAL

Title:— NO PASSING WITHOUT STOPPING

Drawing No. :— A21

SCALE 1:5.5

Notes:—
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:—

WHITE
RED
BLACK
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

**Notes:**

**Colours:**

- WHITE
- RED
- BLACK
Notes:
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Colours:
- WHITE
- RED
- BLACK
Notes:
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Colours:
- WHITE
- RED
- BLACK
Notes:
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Colours:
- WHITE
- RED
- BLACK

SCALE 1: 5.5
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Notes:

Colours:
- WHITE
- BLACK
- RED

Scale: 1:5.5
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Notes:

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Colours:
- WHITE
- GREEN
Notes:
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Colours:
- WHITE
- GREEN

SCALE 1:5.5
Notes:—
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:—

- WHITE
- BLACK
Notes:
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Colours:—
- WHITE
- BLUE

SCALE 1:5.5
Notes:  
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2. All dimensions shown in millimetres.

Colours: 
- WHITE
- BLUE
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- BLUE

SCALE 1:5.5
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2. All dimensions shown in millimetres.
Notes: --
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2. All dimensions shown in millimetres.

Colours: --

SCALE 1: 5.5
Notes:
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2. All dimensions shown in millimetres.

Colours:
- WHITE
- BLUE

SCALE 1:5.5
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2. All dimensions shown in millimetres.
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.

2. All dimensions shown in millimetres.

Notes:

White

Blue
Notes:—
1. If using alternative overall sign dimensions, shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:—
- WHITE
- RED
- BLACK
Notes:
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Colours:
- WHITE
- RED
- BLACK

Scale: 1:5.5
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Notes:

Colours:
- WHITE
- RED
- BLACK

SCALE 1:5.5
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- RED
- BLACK

SCALE 1:5.5
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- RED
- BLACK
Notes:—
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally
2. All dimensions shown in millimetres

Colours:—
- WHITE
- RED
- BLACK
Notes:

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2. All dimensions shown in millimetres.

Colours:

- WHITE
- RED
- BLACK
Notes :-
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours :-
- WHITE
- BLACK

SCALE 1:22
SCALE 1: 5.5

Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.
Notes:--
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:--
WHITE
RED
BLACK

SCALE 1: 5.5
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- RED
- BLACK

Scale 1:5.5
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- AMBER
- RED
- GREEN
- BLACK
Notes:—
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:—
- WHITE
- BLACK
- RED

SCALE 1: 5.5
Notes:
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Colours:
- WHITE
- BLACK
- RED

Scale: 1:5.5
Notes:
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Colours:
- WHITE
- BLACK
- RED

SCALE 1: 5.5
Notes:
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Colours:
- WHITE
- BLACK
- RED
Notes:
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Colours:
- WHITE
- BLACK
- RED

SCALE 1:5.5
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Colours:
- WHITE
- BLACK
- RED

Scale: 1:5.5
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Colours:
- WHITE
- BLACK
- RED
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- RED
Notes:
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Colours:
- WHITE
- BLACK
- RED

SCALE 1:5.5
Notes: -
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours: -
- WHITE
- BLACK
- RED

Scales: 1:5.5
Notes:—
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2. All dimensions shown in millimetres.

Colours:—
WHITE
BLACK
RED
Notes:
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Colours:
- WHITE
- BLACK
- RED
Notes:
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SCALE 1: 5.5
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SCALE 1:5.5
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Colours:

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- RED

SCALE 1:5.5
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- WHITE
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- RED

Scale: 1:5.5
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Colours:
- WHITE
- BLACK
- RED
1. All dimensions shown in millimetres
Notes:
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Colours:
- WHITE
- RED
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Notes:
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2. All dimensions shown in millimetres.

Colours:
- BLACK
- YELLOW

SCALE 1:11
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- BLACK
- YELLOW
Notes: --
1. All dimensions shown in millimetres

Colours: --

1. BLACK
2. YELLOW
Notes: –
1. All dimensions shown in millimetres

Colours: –

SCALE 1:22
Notes: -
1. All dimensions shown in millimetres

Colours: -
- BLACK
- YELLOW
1. All dimensions shown in millimetres
SCALE 1:22

Notes:
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2. All dimensions shown in millimetres.
Notes:  
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2. All dimensions shown in millimetres.

Colours:  
- WHITE
- BLUE
- RED
Notes:—
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2. All dimensions shown in millimetres.

Colours:—
- WHITE
- BLUE
- BLACK

SCALE 1: 5.5
Notes:

1. All dimensions shown in millimetres

Colours:

- WHITE
- BLUE
Notes :-
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally
2. All dimensions shown in millimetres

Colours :-
- WHITE
- BLUE
- BLACK
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

<table>
<thead>
<tr>
<th>Colours</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITE</td>
<td></td>
</tr>
<tr>
<td>BLUE</td>
<td></td>
</tr>
<tr>
<td>BLACK</td>
<td></td>
</tr>
</tbody>
</table>
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.
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Colours:
- WHITE
- BLUE
- RED
Notes:
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Colours:
- WHITE
- BLUE
- BLACK

SCALE 1:5.5
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2. All dimensions shown in millimetres.

Colours:
- WHITE
- BLUE
- BLACK

Scale 1:5.5
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Colours:
- WHITE
- BLUE
- BLACK

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Colours:
- WHITE
- RED
- BLUE
- BLACK

Scale: 1:5.5
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Colours:—
- WHITE
- BLUE
Notes:—
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- WHITE
- BLUE
Notes:
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- WHITE
- BLUE
Notes:
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Colours:
- WHITE
- BLUE
- BLACK
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

SCALE 1:5.5
Scale 1:5.5

Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- BLUE
Notes :-
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally
2. All dimensions shown in millimetres

Colours :-
- WHITE
- BLACK

SCALE 1:11
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- BLACK
1. All dimensions shown in millimetres

Notes:

Colours:

- WHITE
- BLUE
Route symbol thickness (100mm letter height)
National Highways : 100mm
Other Roads : 70mm

This sign is dimensioned for 100mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.

Notes :
1. All dimensions shown in millimetres

Colours :
- WHITE
- GREEN

SCALE 1:16.5
This sign is dimensioned for 100mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.
This sign is dimensioned for 100mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.

SCALE 1:11

Notes:
1. All dimensions shown in millimetres
This sign is dimensioned for 175mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.

SCALE 1:33

Notes:—
1. All dimensions shown in millimetres

Colours:—

[ ] WHITE
[ ] BLACK
This sign is dimensioned for 100mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.
This sign is dimensioned for 100mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.

Notes:

1. All dimensions shown in millimetres

Colours:

- WHITE
- BLACK

SCALE 1:11
<table>
<thead>
<tr>
<th>Height of Sign (mm)</th>
<th>Width of Chevron</th>
</tr>
</thead>
<tbody>
<tr>
<td>480</td>
<td>70</td>
</tr>
<tr>
<td>623</td>
<td>90</td>
</tr>
<tr>
<td>691</td>
<td>100</td>
</tr>
<tr>
<td>834</td>
<td>130</td>
</tr>
</tbody>
</table>

This sign is dimensioned for 100mm high capital letters (English script). If using other lettering sizes the other sign dimensions must be varied proportionally.
Notes:
1. If using alternative overall sign dimensions shown in brackets, the other sign dimensions must be varied proportionally.
2. All dimensions shown in millimetres.

Colours:
- WHITE
- GREEN
Notes:

1. All dimensions shown in millimetres

Colours:
- WHITE
- BLACK
1. All dimensions shown in millimetres

Colours:
- WHITE
- BLACK
1. All dimensions shown in millimetres

Notes:

Colours:
- WHITE
- BLACK
Notes:

1. All dimensions shown in millimetres

Colours:
- WHITE
- BLACK
These Symbols are dimensioned for 100mm high capital letters (English script). If using other lettering sizes the dimensions must be varied proportionally.
J2. Sign Lettering (Bangla and English)

J2.1 Lettering Styles

Lettering on signs needs to be of a plain style and be easy to read at a distance. After some research the following styles were chosen:

Bangla – *Sulekha TE Bold* (designed by Ghulam Farooque Ahmed)

English – *Transport Heavy* (produced by the Department of Environment, Transport and the Regions, United Kingdom)

Permission has been granted for the use of these styles. Both are available as Windows TrueType fonts for those wishing to design route signs on computer. All English words will be in capital letters, as tests showed that these were the easiest to read at a distance.

J2.2 Size and Spacing

The size of letters and numbers on signs other than route signs is specified on the appropriate working drawing. On route signs the lettering size should be determined from the following table:

<table>
<thead>
<tr>
<th>Site type</th>
<th>Capital letter height (English script) (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traffic speeds up to 50 km/h</td>
<td>100</td>
</tr>
<tr>
<td>Traffic speeds between 50 km/h and 70 km/h</td>
<td>150</td>
</tr>
<tr>
<td>Traffic speeds between 70 km/h and 80 km/h. Roads with more than two lanes in the direction of travel. Signs mounted overhead.</td>
<td>175</td>
</tr>
</tbody>
</table>

To ensure correct spacing when forming a word, the characters in each alphabet are placed on imaginary tiles – see Figure 1 below. The tiles vary in width, according to the size of the character, but have a fixed height which ensures correct line spacing. The working drawings generally show the tile outlines, not the actual characters.

**Figure 1 Tiles and Letters**

All dimensions in millimetres

Note that the tiles for the Bangla characters are considerably higher than for the equivalent size English characters. This is because some Bangla characters have elements which go above or below the main part of the letter – called *ascenders* and *descenders*. So, lines of Bangla take up more space than lines of English. The only exception is lines containing
only route numbers in both English and Bangla; because the Bangla characters used in route numbers do not have ascenders and descenders, they are placed on the same height of tile as the English characters.

Design details for each Bangla and English character are given in Figures 2 and 3 on the following pages. The designs for the arrows are given in Figure 4.
Figure 2 Bangla

Font is Sulekha TE Bold.
The letters are placed on tiles for the purpose of spacing.
Dimensions are given in millimetres.
Letter size is equivalent to 100mm high English capital letter.
Figure 3  English

The letters are placed on tiles for the purpose of spacing. Dimensions are given in millimetres and relate to 100 mm high letters. When the W is followed by T, V, X, Y or Z the larger tile is used.
Figure 3 (Continued)
Figure 4  Arrows

The arrows are placed on tiles for the purpose of spacing. Dimensions are given in millimetres and are for arrows used with 100 mm high capital letters (English script).

Arrows on some signs may have non standard dimensions in which case dimensions will be shown on the working drawing.
### J3 Layout of Route Signs

#### J3.1 Design Considerations

Route signs must be legible and easy to understand. Legibility of the legends on the signs is achieved through the use of the appropriate letter size and word spacing. The individual destinations shown on the signs have to be spaced sufficiently far apart to avoid confusion. However, if there is lots of space between legends and route symbols, the sign can become too large and too expensive to manufacture.

#### J3.2 Design Steps

The main steps in the design of route signs are:

1. Determine what size of lettering to use – refer to Table 1.
2. Calculate the length of each legend (words and numerals) to appear on the sign (refer to Section J2) and the size of each arrow and symbol (if used).
3. Refer to the appropriate working drawing in Section J1 and set out the sign in the same way. For additional guidance refer to the design rules given below. It is recommended that for map-type signs you start at the base of the approach road symbol and work upwards and outwards. For stack-type signs it is best to first set out the panel with the longest legend, and then proceed to design the other panels.

#### J3.3 Design Rules Common to All Route Signs

1. Try to make the sign as small as the design rules allow.
2. No more than four destinations are permitted on one sign.
3. No more than two destinations are permitted for any one direction (except for route confirmation signs).
4. The destinations in Bangla shall appear above those in English.
5. Where two destinations are shown for one direction the nearer of the two shall appear above the other. The destinations in Bangla shall be kept together and shall be above the destinations in English.
6. Route numbers shall be shown for all National Highways (except on temporary diversion signs).

#### J3.4 Design Rules for Map-type Advance Direction Signs (C28) (see Figure 5)

1. The actual layout of the junction shall be shown in diagrammatic form, but the route symbol representing the approach road shall always be vertical. Where the junction is on a bend there should be a vertical section (equal in length to the capital letter height (English)) before the route symbol starts to curve.
2. The width of the route symbol shall equal the capital letter height (English) if it is a National Highway; for other roads the width will be 0.7 x the capital letter height. The width of the route symbol for a roundabout shall always equal the capital letter height (English) whatever the status of the routes at the junction.
3. Forward destinations shall be positioned above the forward route symbol.
4. The minimum vertical distance between the forward destination tile and the side destination tile shall be equivalent to twice the capital letter height (English).
5. The minimum length of a horizontal route symbol shall be equivalent to three times the capital letter height (English), except in the case of roundabouts, where it will be twice the capital letter height.
6. Side destinations shall be stacked one beneath the other. With left-turn destinations the initial letters shall be aligned. With right-turn destinations the last letters shall be aligned.
7. Where there are two side directions opposite each other the route symbols shall generally be equal in length.

**J3.5 Design Rules for Stack-type Advance Direction Signs (C29, C30) (see Figure 6)**

1. Legends are set out using the longest line (Bangla or English).
2. The route number in Bangla appears below the destination in Bangla and the initial letters are aligned. The route number in English appears above the destination in English and the last letters are aligned. Where there is no route number the initial letters of the destinations are aligned.
3. On a forward destination panel the arrow shall be to the right of the destination and shall point upwards. The legend shall be set out from the right. The panel shall be at the top of the sign, above all other panels.
4. On a right-turn panel the arrow shall be to the right of the destination and shall point right. The legend shall be set out from the right. The panel shall be below a forward destination panel and above a left-turn panel.
5. On a left-turn panel the arrow shall be to the left of the destination and shall point left. The legend shall be set out from the left. The panel shall be at the bottom of the sign, below all other panels.
6. Arrows may be placed at an angle between the horizontal and the vertical if this will better indicate the direction to be taken.

**J3.6 Design Rules for Direction Signs (C32, C33)**

As for rules 1 and 2 in Section J3.5

**J3.7 Incorporating Regulatory and Warning Signs in Route Signs (see Figure 7)**

Small-size regulatory and warning signs may be incorporated into advance direction signs and direction signs where the information they give will help road users chose their route. The diameter of the regulatory sign and the height of the warning sign shall equal three times the capital letter height (English). Where the route sign has a green background a narrow white edge shall be added to the outside of the red triangle / roundel.

On *map-type advance direction signs* the signs will normally be centred over the appropriate route symbol. Except for the A3 No Entry sign, the A22 No Right Turn sign, and the A23 No Left Turn sign, the route symbol shall extend beyond the sign for a minimum distance equal to 1.5 x the width of the route symbol. The separation between the sign and the route symbol shall equal 0.27 x the capital letter height (English).

On *stack-type advance direction signs* the signs will normally be positioned between the arrow and the legend. The separation between the sign and the arrow or legend shall equal 0.45 x the capital letter height (English).
On direction signs the signs will normally be positioned between the chevron and the legend. The separation between the sign and the chevron or legend shall equal 0.45 x the capital letter height (English).

**J3.7 Symbols on Route Signs**

Symbols may be used on route signs to help road users make the correct route choice. Examples include the S1 aircraft symbol, the S2 ferry symbol, the hospital symbol from the C9 sign, and many others. On route signs with a green background a white symbol will be used; on other signs the symbol will be black. The height of the symbol will normally be equal to 2.2 x the capital letter height (English). Those symbols which have a directional element should point left or right in accordance with the direction indicated by the route symbol, arrow, or chevron. Where the route symbol or arrow is vertical the symbol should point left.

The S1 aircraft (airport) symbol is normally positioned to the right of the airport name or the name of the place where the airport is located. It can also be used on its own. The aircraft generally points in the same direction as the route symbol, arrow, or chevron, except that it never points below the horizontal. The height and width of the symbol shall be equal to 1.8 x the capital letter height (English).

The S2 ferry symbol is normally positioned to the right of the name of the place where the ferry terminal is located, but it can also be used on its own.
## J4 Destinations to be shown on Route Signs

Place names shown in bold are primary destinations that should appear on route confirmation signs.

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