

Connecting Queensland

15th October 2008

TraSiCAD v 2.8

Instruction Manual



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CHAPTER 1

INTRODUCTION TO THE MANUAL

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Section 1

About This User Manual

1.1 The Purpose of this Manual

This User Manual is intended for designers utilising the TraSiCAD software program for the design of signs.
 The User Manual describes the process involved to Create new signs with in Standard guidelines Produce designs for manufacture Interpret messages, warnings and errors
The User Manual assumes that the reader has a basic knowledge of:Personal computers

Expected Outcomes

After studying this manual, the reader should be able to

- Create new signs
- Understand sign clearances
- Print drawings
- Interpret messages, warnings and errors



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CHAPTER 2

USING TRASICAD

TraSiCAD 2.8 - October 2008

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Section 2

2.1 WHAT IS TRASICAD ?

TraSiCAD V2.8 is a program developed by Traffic Engineering and Road Safety Branch, a division of Main Roads to assist in the design of road signs.

This user manual is intended to be used in conjunction with:-

Australian Standards AS 1743 Road signs – Specifications

Australian Standard AS1744 Standard Alphabet for road signs

Australian Standard AS1742 Local Area Traffic Management

Manual of Uniform Traffic Control Devices (MUTCD)

More information can be found on the Queensland Main Roads Department web site at

www.mainroads.qld.gov.au

For TraSiCAD V2.8 downloads search on "TRASICAD"

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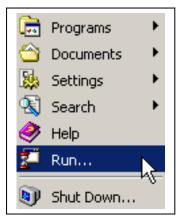
2.2 INSTALLING TraSiCAD

• BY CD

Browse the CD drive

Insert the TraSiCAD installation CD.

Select Run on the Windows desktop



Run	<u>? ×</u>
<u> </u>	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	D:\
	OK Cancel Browse

Browse					? 🛛
Look jn:	🚞 Trasicad		G	🦻 📂 🛄 -	
My Recent Documents	Trasicad_V2.7.	exe			
My Documents					
My Computer					
	File <u>n</u> ame:	Trasicad_V2.7.exe		~	<u>O</u> pen
My Network	Files of type:	Programs		✓	Cancel

Select Install TraSiCAD V2.8

TraSiCAD will automatically set up all files.

Follow all prompts till completed, then select Finish

• BY DOWNLOAD FILE

Go to Main Roads web site (www.mainroads.qld.gov.au)

- In the search bar search for TRASICAD. Find the relevant download
- Save to a relevant PC directory
- Select and run the Install file

TraSiCAD will automatically set up all files.

Follow all prompts till completed, then select Finish

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2.3 OPENING TraSiCAD

After installation has been completed, open the program by either:-

1. Running from the executable file in the directory in which the program was installed.

or

2. Double click on the TraSiCAD icon developed on the computer desktop during the installation.

The TraSiCAD working screen will appear showing options directories to be used in TraSiCAD design.

Note TraSiCAD has its own complete Help function that may be utilised in conjunction with this user manual.

2.4 SETTING UP DEFAULTS AND OPTIONS

TraSiCAD can set various default options required during the drawing design process. Before using TraSiCAD the various options can be set up with default characteristics. For faster and more efficient use of the program these options should be set prior to the commencement of any design.

2.4.1 Options

From the **Tools** directory select **Options**. This opens a dialogue box with 4 tab functions.

2.4.1.1 General

- Gives the option of selecting parameters with particular RTA characteristics.
- Accesses the clearance *Rule Set* that determines the particular clearance rules for the elements within the sign. A new rule set* is determined at Supervisor level by a separate Rule Generator.
- Sets the order in which clearances are made.
- Allows automatic setting of Borders and corner radii when clearing, if required.
- Redirects the default sign saving directory to user defined, if required.

* These Rule sets have been based on the AS 1743 standards and should not be modified unless there are valid design reasons. Because they are permanently editable, care should be taken in any modification process. It is advised to keep a Master copy of these rules or create a new working Rule set through the New option.

580 <u>5</u> 7	[raSi	CAD v	2.8		
File	Edit	View	Tools	Help	
	/				
_					

General Edit New Signs Display

Use RTA specific sign parameters

Use the clearance rules in Rule Set file: As1743clr.rls

Adjust horizontal clearances before vertical clearar

Adjust Sign Borders when clearance rules are applied

Adjust Sign Corner Radii when clearance rules are applied

OK

C:\PROGRA~1\MAINRO~1\TraSiCAD\Signs

Adjust vertical clearances before horizontal clearances

Sign Set

Clearance Rules

Default Sign Directory

х

•

Modify .

Help

Cancel

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2.4.1.2 Edit

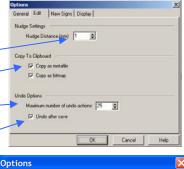
- Varies the nudge distance of elements on the sign face. Using the UP/DOWN/LEFT/RIGHT arrows on the keyboard, fine control of element placement can be achieved.
- Allows selection of copying file types
- Selects the number of Undo functions available.
- Can decide if the undo / redo stack is reset or not after a save function has been completed.

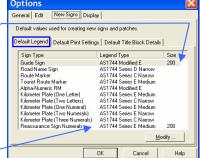
2.4.1.3 New Signs (1) Default legend

- Sets the Default Legend height. <u>This height sets</u> <u>clearances in association with the current rule set</u> <u>being used.</u>
- Enables the setting of default legend for the various signs and route markers, which are utilised in conjunction with the various wizards.
 TO BE COMPLETED PRIOR TO USE OF TraSiCAD.

(2) Default Print Settings

- Selects ability to show arrow heads in dimensions-
- Selects the default printing scales. -
- Sets the default print margins.
- Sets the default font for the print title block.-

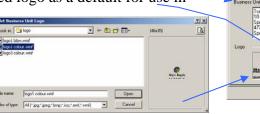




General Edit New Signs Display	1	
Default values used for creating new si	gns and palches.	
Default Legend Default Print Settings	Default Title Block D	etails
	Default Margins	
Show Dimension Anows	Top 2	000
🔽 Fit To Page	Bottom 2	500 主
► Scale: 1: 20 👲	Left 1	500 🚖
Default Title Block Font	Right 1	500 主
Anal	Margin width hundredths o	
	K Cancel	Hek

(3) Default Title Block Settings Sets default Business Unit Details

• Loads/deletes a pre designed logo as a default for use in the print title block.





2.4.1.4 Display

Sets the colouring characteristics of TraSiCad when non-system colours are displayed and represented. When using a display device with a colour palette smaller than 24 bits, some colours will not be available in the device palette and

will need to be approximated. Two methods are available:

- *Closest Match* Colours are represented by the closest matching colour from the logical palette of the display device.
- *Dithering* Colours are represented by drawing a pattern using similar colours.

General Edit New Signs Display	A	
When showing a colour the display approximate the colour using:	v device cannot exactly represent.	
Closest match from the	e logical palelte	
C Differing		
		_

2.5 STARTING A DRAWING

There are 4 different methods of accessing drawings within the TraSiCAD program. Selecting the **File** directory indicates *New*, *Open*, *Wizard* or the *file history bar*.

Note:- Once a drawing has been commenced, it is recommended that the Sign Properties Feature (Alt+P) is utilised to enable user nominated variables to be entered. (see 2.7.4)

2.5.1 *New* - Used to develop new signs utilising basic styles and backgrounds. There are up to 16 different styles that are selectable from this box.





2.5.2 **Open** –Used to open a previously designed sign from a file directory. This option can be used to modify, copy or print previously designed signs selected from the user's specific local or network files and directories. (see 2.4.1.1)

Open	<u>? ×</u>
Look in: 🔲 Local Disk (C:) 💽 🗢 🔁 📸 📰 🔻	
Intagent WINNT PKWARE Signage Design Program Files Suscetup Temp Usys	
File name: Oper	n
Files of type: All Sign Files Canc	el

or Can be used to access the specific Signs directory within TraSiCAD.

This directory contains a number of signs.

Open	? 🗙	Open	<u>?</u> ×
Look in: 🔁 TraSiCAD 💌 🗢 🖻 📸		Look in: 🔄 Signs	- 🖬 📩 🖃 -
Carles Sons Temp Files		G1-2 wizard.sgn 🛛 G3-5	i wizard.sgn wizard.sgn wizard.sgn
File name: Open		File name: G1-1 wizard.sgn	Open
Files of type: All Sign Files Cance		Files of type: All Sign Files	▼ Cancel
	↑ [5] Stanth CUNNINGHAM HWY Karara	orpe 42 🛪	
	Inglewood		

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2.5.3 Use Wizard - Used to select a particular type of sign from a list of wizards (RTA selection if needed. See 2.4.1.1). This gives a specific design of a sign which will be set out according to predetermined standard format and style.

Wizard selection process

- Select required Wizard (Dependant on which installation is used (RTA or MR) an example window indicates the type of sign to be selected.)
- Select number of panels (if available) the particular Legend Type and Height.

Note:- The legend value selected here only assigns the characteristics for the legends on that sign. They have **NO** bearing on the Default legend height value that set the clearance values between the elements on that sign.

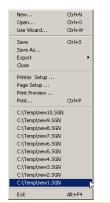
For each of the panels requested in the previous step, select and apply details for a *Road Name Patch*, *Route Marker* type and *number*, *Arrow* type and *Legend*

Note :- To assist with drawing efficiency, the subsequent use of any wizard allows the user to utilise previously entered values of a wizard when it was last run.

Gancel

For example if a three panelled wizard design was initially utilised and there was a requirement for a subsequent two panelled sign, then any of the legends or symbols from the first two panels may be selected for use in that new design

2.5.4 *History Bar* - Used to select up to ten previously worked on drawings with out the need to close off the current drawing.





RTA selection

=

AS1744

Nest >>







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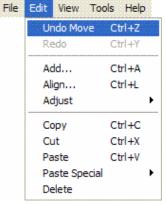
2.6 DRAWING OPTIONS

2.6.1 Functions

Modifications, additions and adjustments can be made to any sign drawing utilising the **Edit** directory on the tool bar.

The functions dialogue box gives access to options which include :-

- Undo File Edit
- Redo
- Add
- Align
- Adjust
- Copy
- Cut
- Paste
- Paste Special
- Delete



Selection from this list in the **Edit** directory or using the associated short cut keys will utilise the functions as follows:-

2.6.1.1 Undo

Undoes the last number of drawing steps carried out. (Undo levels are set in Tools directory under Options / Edit.) (see 2.4.1.2)

2.6.1.2 **Redo**

Redoes the previous Undo functions. Redo's are limited by the amount of undo levels.

2.6.1.3 Add

Facilitates the addition of various items to be inserted in a drawing. Consisting of :-

- Legends
- Road Name patches,
- Route markers
- Sub Signs
- Images from file (see 2.6.2)
- Arrows (see 2.6.3)
- Roundabout signs (see 2.6.4) and
- Diagrammatic Direction Symbols (see 2.6.5).



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2.6.1.4 Align

This function allows for the horizontal or vertical alignment of two or more separate items on a drawing.

Note:- All preselected items will aligned to the **LAST** item selected in the Align process.

Alignment of two single items

- 1. Select the first item requiring to be aligned to a another.
- 2. Hold down the shift key and select the second item.
- 3. Select **Edit** directory then **Align** (or Ctrl L). An *Alignment Tool* dialogue box will appear.
- 4. Select the relevant Horizontal (Top, Centre or Bottom) or Vertical (Left, Centre or Right) alignment box.
- 5. The items will appear aligned on the screen.

To correctly align these separated quantity items

6. Select OK.

with other legends :-

7. The sign will be permanently aligned and updated in the drawing.

Vertical alignment of multiple legends (eg.Rest Area & 1km)

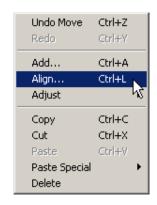
Quantity items may be made up of two separate "words" (eg. "1" &" km").

1. Select the number "1"

- 2. Hold the shift key then select "km".
- 3. While still holding the shift key select the legend "Rest Area" to which the quantity item is to be aligned.
- 4. Select **Edit** directory then Align (Ctrl L) where an *Alignment Tool* dialogue box will appear.
- 5. Select the Group Into Rows box.







Area

est

ign Horizontally C Top

C Centre

C Bottom

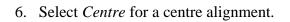
Left

C Centre

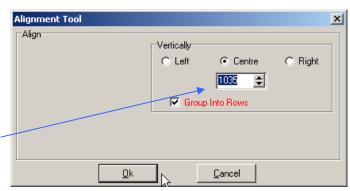
Cancel

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This will group select the "1" and the "km." This will be indicated on the screen with dotted box enclosing both items selected.



A position measurement indicator will appear signifying the centre position of the new alignment line. Manual modifications to this position measurement can be made in this box if required by direct editing or using the up / down arrows.



Area

Area

кm

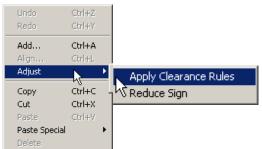
7. Select OK to generate the newly aligned sign.

2.6.1.5 Adjust

Sets the automatic adjustment of items on the sign face at predetermined clearances. Two separate options are available.

• Apply Clearance Rules

Enforces an automatic clearance on all items on the drawing to give predetermined spacings from rules installed within TraSiCAD. These rules can be found in the Rule Editor in the Options directory. (see 2.4.1.1 SETTING UP DEFAULTS AND OPTIONS).



Rest

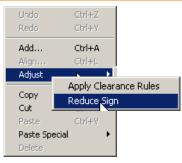
Note:Clearances are determined by the "Default legend" size which may
NOT be the size of the legend being utilised on the drawing.

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• Reduce Sign

This option completely reduces the sign to its smallest size, taking into consideration and applying clearance rules formulated in the Rule Sets previously mentioned in 2.4.1.1.

It will set the borders and corner radii to the appropriate values if the particular request boxes are checked in the Options / General dialogue box.(2.4.1.1.)



2.6.1.6 **Copy**

Takes a copy of the selected item on the drawing and places it on a working clipboard to be reutilised on that drawing or in other compatible software applications. The copied item remains intact on the drawing.

2.6.1.7 **Cut**

Takes a copy of the selected item before erasing it from the drawing. It places it on a working clipboard to be reutilised on that drawing or in other compatible software applications. This function can also be used as a delete.

Note that the working clipboard will only hold one item at a time. If another object is subsequently cut or copied the previous object will me overwritten, depending on the number of undo levels.

2.6.1.8 Paste

Places the object obtained by the last Cut or Copy function, from the working clipboard onto the present working drawing.

2.6.1.9 Paste Special

Enables two separate ways to import items from the Clipboard of <u>other</u> Windows applications.

• Paste Text as a Legend

Takes text copied or cut to the "Clipboard" from other compatible applications and places it on the working drawing in a "Text Editable" format.

• Paste Metafile as Image

Imports an object or text copied or cut to the "Clipboard" from <u>other</u> compatible applications and places it on the working drawing in a NON editable form. This is ideal for quickly importing logos and symbols from electronic brochures.

2.6.1.10 Delete

Deletes any object from the drawing. The option does not utilise the working clipboard and therefore the object will be deleted permanently. The Undo function will undelete any object deleted dependant on the amount of undo levels set in the Options \setminus Edit box (see 2.4.1.2)

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2.6.2 Adding a Legend

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing.

Selecting legend allows specified words to be imported into the drawing from the ensuing "Add to Panel" dialogue box.

Particular Legend types and heights can be selected as required. Note that all fonts used in TraSiCAD are derived from the *C:\Windows\Fonts* directory. All Australian Standard Highway fonts (sold separately to this software) should be installed there.



2.6.3 Adding a Road Name Patch

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing.

Selecting Road Name Patch allows one of the following a specified shaped patches to be imported into the drawing from the ensuing "Add to Panel" dialogue box.

- Not Pointed
- Left Pointed
- Right Pointed
- Double pointed

 New Road Name Patch

 Lines of Legend

 ROBERTS RD

 Legend Type: AS1744 Series D Narrow

 Legend Height:

 150

 Legend Type and Height

 0

 0

 Legend Type and Height

 0

 0

 0

 0

 0

 0

 0

 0



Note that the legend height used in a Road Name patch is automatically reduced to 75% of the main sign legend height.

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2.6.4 Adding a Route marker

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing

Selecting Route Marker allows one of six different types of markers to be imported into the drawing from the ensuing "Add to Panel" dialogue box.

- Alpha-numeric Route markers
- Tourist Route markers
- State Route markers
- Metroad Route markers
- National Highway Route markers
- National Route markers



Sign Properties Add Dimensions

Add Dimensions Zoom

d to Panel 1 of Main Sign

Houte Marker Other Sub-Sign Image From File Arrow Symbol Roundabout Symbol Diagrammatic Direction Symbol

Add New.

Legend Road Name Patch Route Marker Ctrl+Z

Add

Close

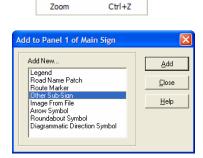
<u>H</u>elp

2.6.5 Adding an Other Sub-Sign

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing

Selecting Other Sub-sign allows selection of all types of signs to be imported onto the main sign from the ensuing "Add to Panel" dialogue box.



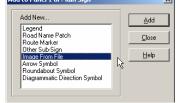


2.6.6 Adding an Image

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing.

Selecting Image From File allows special image files to be imported into the drawing from the ensuing "Add to Panel" dialogue box.

	Sign Proper	ties	
	Add		
	Dimensions		
	Zoom	Ctrl+Z	
Ad	d to Panel 1 of Mai	in Sign	
	Add New		Add



TraSiCAD has access to an internal directory of .wmf symbol files that can be directly imported into the drawing.

Selecting add an *Image From File* will usually directly access the Symbols library within the TraSiCAD program.

	AS1742 Symbols	1-1	• • •	(35x35)	D
S05 resta	e. went L.vent t. infornation , vent	S07 cafeteria.wmf S00 camp area.wmf S00 camp area.wmf S09 caravan.vm/ S10 caravan camp.wmf S11 arport e.wmf S11 arport e.wmf	 S11 arport ne. S11 arport nw. S11 arport nw. S12 rest area. S13 truck park. S14 parking are 		
•			<u></u>		
File name:	S01 hospital we	C. C	Open		
Files of type:	Metalles (* vml		Cancel		

In a typical install this file location will be C:\Program files\MainRoads\TraSicad\Symbols

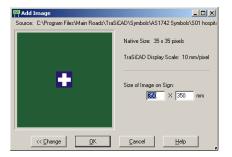
Note: TraSiCAD allows the importation of any .emf or .wmf files. If other self generated symbols files are designed they may be placed in this directory for convenience or located in other directory locations to be "browsed" for.

Select the required symbol.

Select Open

An "Add Image" dialogue box will appear indicating the symbol selected. The height and width are shown along with a scaling option to increase or reduce the importing size.

Options can then be made to accept, change (reverts to previous dialogue box for another selection) or cancelling the symbol.



Various types and sizes of arrows can be added to

a sign by selection of the Arrow Symbol from the

"Add to Panel" dialogue box.

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2.6.7 Adding an Arrow symbol

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing.

Sign Properties Add Dimensions Ctrl+Z Zoom Add to Panel 1 of Main Sign х Add New... Add Legend Road Name Patch <u>C</u>lose Route Marker Other Sub-Sign <u>H</u>elp Image From File Arrow Symbol 닎 Roundabout Symbol Diagrammatic Direction Symbol

Various types and sizes of arrows can be designed and modified from the "Add New Arrow Symbol" dialogue box.

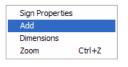
Through various individual boxes the Add New Arrow Symbol X actual size of the arrow based on a Width 275 ŧ particular legend height can be established along with, Length 313 ŧ Shaft Width 63 ŧ Widths, • Base Width 85 ŧ Lengths, • Shaft lengths, • Head Height 176 ÷ • Base widths, Indent 21 ¢ Arrow head heights, • Corner Radius Arrow indents, 13 ŧ • 100 ŧ Zoom Corner radius and Legend Height 200 ÷ **Rotation angles** Rotation Angle Arrow Colour Ю ŧ Other functions to determine *colours*. Rounded Point rounded or pointed arrowheads and Long Arrow standardised long or short length shafts can be made in this option. *Note: Double clicking on any colour* <u>0</u>K Close Help brings up a full colour pallet

A *zoom* function is also available to enhance the details in the design box. Note: this does not affect the zoom in the actual drawing

Connecting Queensland

2.6.8 Adding a Roundabout Symbol

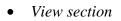
Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing



Various types and sizes of roundabouts can be added to a sign by selection of the Roundabout Symbol from the "Add to Panel" dialogue box.

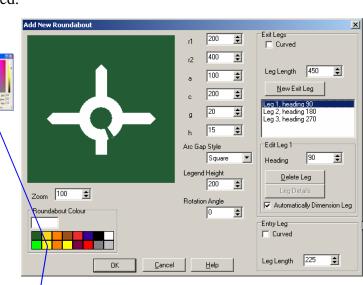


Various types and sizes of Roundabouts can be designed in the ensuing "Add New Roundabout" dialogue box. Three sections are can be accessed through various boxes in each, where a number of options for specific designs can be entered.



- r1 Inner roundabout radius
- r2 Outer roundabout radius,
- **a** Views, sets and changes the value, in mm, of the height of the triangular tip of the exit leg.

- **c** Width of the exit legs.
- **g** Location in degrees of the gap.
- **h** Width of the arc gap in degrees.



Roundabout colour Sets the symbol colour.

Note: *Double clicking on any colour brings up a full colour pallet* Sets the overall size of the symbol

Legend height	Sets the overall size of the symbol
Arc Gap Style	Sets a Square ended exit, a Pointed end on the exit or a Double Point that gives a
	pointed entry and exit.
Rotation Angle	Sets the rotation angle (in degrees) of the symbol.
Zoom	Sets screen viewing for better design detail.

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• Exit Legs Section

Exit legs may be straight or curved. By checking the **Curved box**, two options become available.

Curved left and	Sets the exits to curve clockwise as opposed to the default anticlockwise.
Attached at Base	Determines if the arc of a curved leg should be tangential to the roundabout body or tangential to centreline of the triangular tip of that leg.

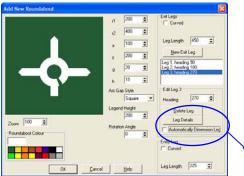
Other options:-

Leg LengthDetermines the radial distance in millimetres, from the roundabout outer edge
to the base of the Exit leg's triangular tip.

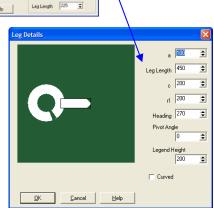
New Exit Leg Inserts extra legs and indicates them in the associated list box.

Selection of a particular leg in the list box enables the user to:

- Modified parts of exit legs.
- **Delete** or **Add** a selected leg.
- Automatic size an exit leg via the **Automatic Dimensioning Leg** option.



If the *Automatic Dimensioning Leg* box is not checked when an exit leg is selected, the leg can be "manually" sized via the **Leg Details** box. This separate dialogue box individually tailors the characteristics of that particular exit leg.



• Entry Leg Section

Entry legs may be straight or curved. By checking the **Curved** box, two options are made available.

- **Curved left** Sets the exits to curve clockwise as opposed to the default anticlockwise.
- Attached at Base Determines if the arc of a curved leg should be tangential to the roundabout body or tangential to centreline of the triangular tip of that leg.

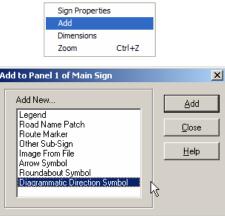
Leg Length modification can also be achieved in this section.

Connecting Queensland

2.6.9 Adding a Diagrammatic Direction Symbol

Note. The Add function can be activated in a shortcut mode by placing the cursor somewhere on the active drawing and right clicking the mouse. A dialogue box with four options, including Add, will appear on the drawing

Various types and sizes of Direction Symbols can be added to a sign by selection of the *Diagrammatic Direction Symbol* from the "Add to Panel" dialogue box.



Various types and sizes of Diagrammatic Direction Symbols can be designed in the created "Add New Diagrammatic Direction Symbol" dialogue box. When utilising Diagrammatic Direction Symbols, three processes areas are used to assist the design.

- Select, add and modify various **branches** to make up the basic design.
- Select and modify curved or straight segments that when added together, make up a branch.
- Actively **viewing** the design.
- View section

Zoom This assists in design view. It has no effect on the size of the diagram in the drawing

Rotation Angle This rotates the diagram as required.

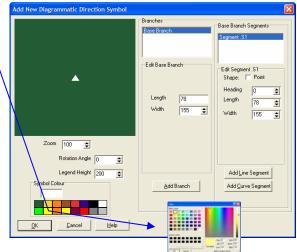
Legend Height This determines the size of the diagram on the drawing

Symbol Colour This sets the symbol colour. Note: Double clicking on any colour brings up a full colour pallet

• Branch Segment Section

Initial opening branch is tagged a **Base Branch**. This is in fact a pointed segment. As subsequent segments are added (straight or curved) they are nominated a sequential number.

The latest segment is allocated the "Segment S1" notation (*this notation increases as another segment is added*)



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Selecting a particular segment in **Base Branch Segments** area activates modifiers that enable *Headings, Lengths Widths Radius and Sweep* to be altered as required.

Add or remove segments by using the Add Line Segment/ Curve Segment or Delete Segment options.

Curved Left option allows a default right curve to be changed to left if required.

Note: every required left curve segment must be selected each time.

Branch Sections

Once the main base branch has been designed it may be necessary to "overlay" another branch in the design.

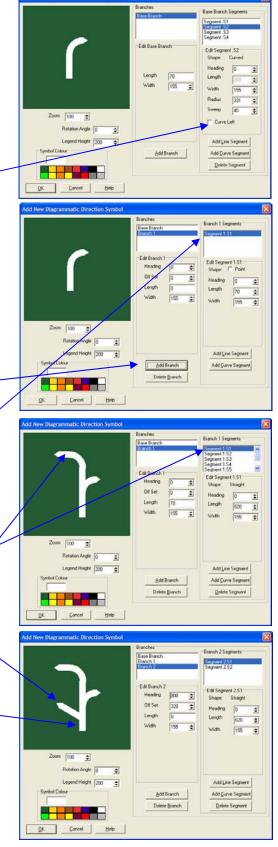
Selecting the **Add Branch** button produces another branch superimposed on the base branch. This is signified by Branch 1 in the "Branches" box. The Branch 1 Segment box now indicates another S1 segment.

This S1 segment although shown in the box actually sits on the base branch and appears invisible. Only adding other sections shows its existence.

When a new branch segment is selected The Edit branch area gives two other options:-

- *Heading.* This sets the direction to which the segment points _____
- Off set This sets the amount of offset or distance the segment is set vertically up the branch

As many new branches can be added as required to make up a detailed represented drawing.



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2.7 VIEWING OPTIONS

During the drawing process TraSiCAD utilises various viewing options to assist accurate sign design.

These options can be found in the View directory and consist of the four options :-

- Zoom
- Gridlines Setup
- Dimensions
- Sign Properties

Zoom	Alt+Z
Gridlines Setup	
Dimensions	
Sign Properties	Alt+P

2.7.1 Zoom

This feature scales the drawing up or down on the screen to assist the detailed designing of a sign.

	Set Zoom		×
	Zoom Levels	C 500%	
	C 100%	C 600%	
Zoom levels range from 50% to 1000% A Custom zoom range is also available and can	C 150%	C 800%	
be used to suit individualised viewing needs.	C 200%	○ 1000%	
	O 300%	 Custom 	
	O 400%	250 🚖	
	ОК	Cancel	1

2.7.2 Gridlines Setup

Enables a series of gridlines to be added to the drawing. This assists the particular spacing of items as each item is placed on the drawing.

Any nominated grid size intervals up to a **maximum** of 1000 millimetres can be utilised.

Gridlines Setup	×
Grid Spacing	
X Interval 👤 🛨 mm	
Y Interval 200 🛫 mm	
🥅 Show <u>G</u> rid	
Snap to Grid	
OK Cancel	

Connecting Queensland

2.7.2.1 *Show Grid*

When selected, this option enables the previously set grid to be visible on the screen for the drawing process.

2			÷							÷	÷
	÷.			÷	÷					÷	÷
			÷	÷	÷	÷			÷	÷	÷
	-			÷.,	, de l	t.			÷	÷	÷
		5		S	ba		16		÷.	÷	÷
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Į	÷	÷	÷	÷	÷	÷	÷	÷		÷	÷
	-	÷	÷	÷	÷	÷	÷	÷		÷	÷
÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	

2.7.2.2 Snap to Grid

When checked this enables the items to be placed and "snapped" onto the drawing along the previously determined grid pattern. "Snapping" will occur whether or not the grid is visible.



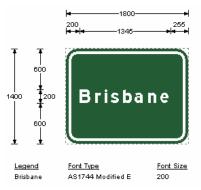
2.7.3 **Dimension**

Selecting this feature gives an exact indication of the lengths, heights and clearances of legends $\$ symbols on a drawing. See 2.9.2.1 for details on removing arrow heads for clearer detail

In this mode there are two separate areas on the screen drawing that show,

- (a) All horizontal and vertical dimensions associated with any items on that drawing.
- (b) A tabled view of all font legends, font types and sizes being used on all the panels and sub signs within that drawing.

Note: These dimensions actively vary as any drawing changes are being made.



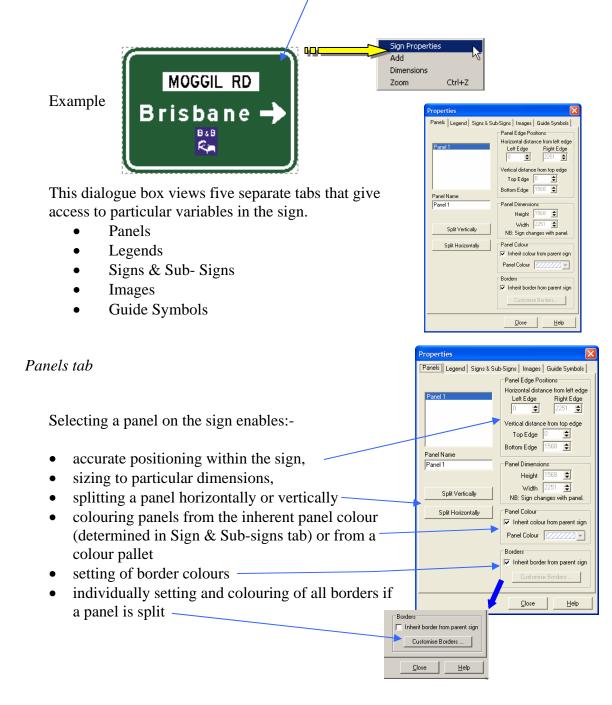
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2.7.4 Sign Properties

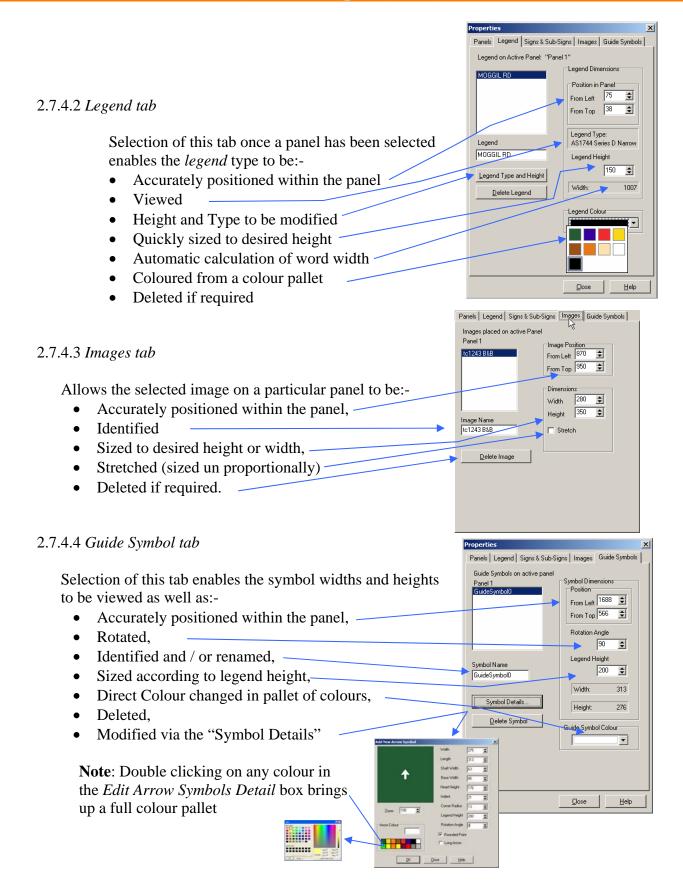
2.7.4.1

This feature enables the user to select and accurately modify colours and values of panels, plates, legends and elements associated within a particular sign.

Note. Properties can be activated by either "Alt P" or placing the cursor somewhere on the active drawing and <u>right clicking the mouse</u>. A dialogue box with four options will appear. Select Sign Properties for that dialogue box.



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2.7.4.5 Signs & Sub-signs tab

Selection of this tab gives an overview of all the panels in the entire sign. Modifications to sizes and positions of legends and panels are available in the areas within this tab.

- Selecting any of the *Main-Sign* in the list box indicates all features that are associated with the make up of that sign.
- Selection will indicate all of the attributes of the panel and subsequently access control over panel positions, colour, dimensions, border sizes and colours.
- It indicates the default legend types and heights,

Note : The default legend height is used to calculate ALL clearances on a sign irrespective of what size is being used on the sign see 2.4.1.3

Properties	<u>×</u>
Panels Legend Sign	s & Sub-Signs Images Guide Symbols
Main-Sign and Sub-Sign	15
Main Sign	
(Testile) Hoad Name P	accr
	Dimensions
	Width 2241 🚖
Sign Name	Height 1576 🚖
Main Sign	Corner Radius 100 호
Default Legend Height 200	Panel Colour
Default Legend Type	Borders
AS1744 Modified E	10 1
Legend Type and Hei	ght Edge Width 40 🗲
Delete Sub-Sign	Border Colour
Preview Patch	
	<u>C</u> lose <u>H</u> elp

Selecting a Sub-Sign, Road Name Patch or Route Marker will:-

 Display an "Auto Resize Route Markers and Road Name Patches" check box.
 When this box is checked, changing the size of legend on the "active sign" (if it is a Route Marker or Road Name Sign/Patch) will change that "active" sign's width and height proportionally.

If it is not checked the size of the legend will not automatically be scaled with the signs resizing.

- Highlight the active sign / patch and subsequently access control over panel / patch positions, dimensions, border sizes and colours.
- Indicate the default legend types and heights,
- Enable panel legend modification and deletion
- Enable options to *Publish Legend* and *Print Details* of any sub panel or patch when the drawing is printed out.

(When *Publish Legend* is left unchecked only legend for the <u>Main</u> panel will be printed. When *Print Details* is left unchecked no subsequent sub panels and their details will be printed out.)

Properties	×
Panels Legend Signs & Su	ub-Signs Images Guide Symbols
Main-Sign and Sub-Signs	Automatically resize Road Name S Sign Position From Left 522 1 From Top 240
Patch Name Road Name Patch Default Legend Height 150	Dimensions Width 1157 🚖 Height 226 🛫 Corner Radius 23 😴 Panel Colour
Default Legend Type AS1744 Series D Narrow	Borders Border Width
Legend Type and Height	Edge Width 0 👤
Delete Sub-Sign	Border Colour
Preview Patch	Publish Legend 🔽 Print Details
	Close Help

Connecting Queensland

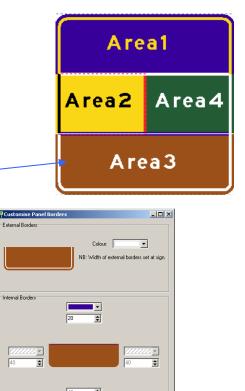
2.7.4.6 Multi Panel Border and Colour control

roperties Panels Legend Signs & Su	ub-Signs Images Guide Symbols
Trogonal oight doc	Panel Edge Positions
Panel 1	Horizontal distance from left edge Left Edge Right Edge
Panel 2 Panel 4 Panel 3	0 😫 2500 🚔
	Vertical distance from top edge Top Edge 0
Panel Name	Bottom Edge 833 🗲
Panel 1	Panel Dimensions
	Height 833 🚖
Split Vertically	Width 2500 🗲 NB: Sign changes with panel.
Split Horizontally	Panel Colour
	✓ Inherit colour from parent sign
	Panel Colour
	Borders
	Inherit border from parent sign
	Customise Borders
	<u>Close</u> <u>H</u> elp
Panel 1 Panel 2 Panel 4 Panel 3 Panel Name Panel 3 Split Vertically Split Horizontally	Panel Edge Positions Horizontal distance from left edge Left Edge 1
	Panel Colour
	Borders
	Borders Inherit border from parent sign Customise Borders



When a Multi Panel sign is selected there are options to:-

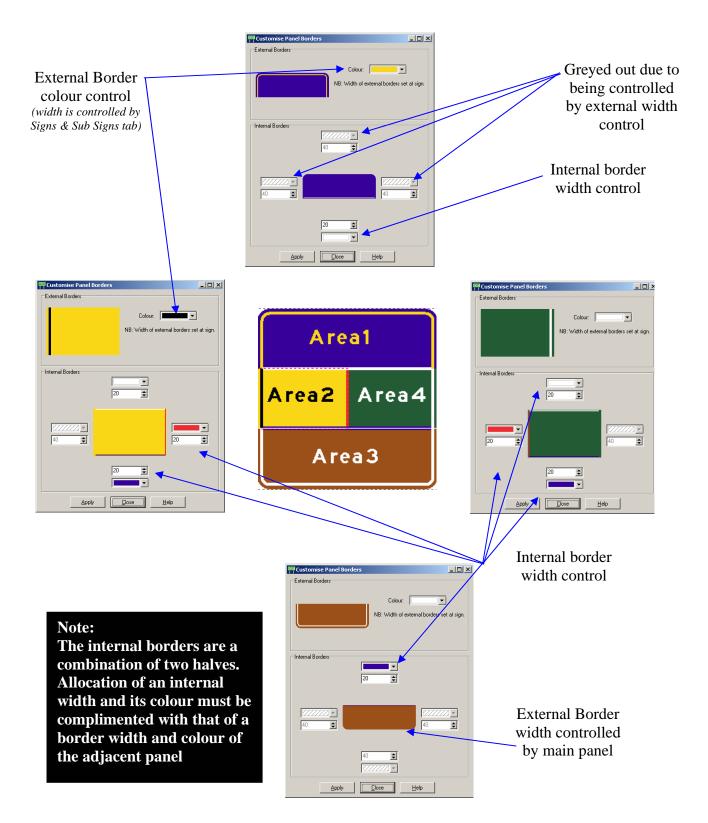
- keep all of the panel colours and border widths and
 colours the same as the inherent properties of the main or parent panel by checking the appropriate boxes or
- change the colours and border widths and colours the same as the inherent properties of the main or parent panel by unchecking the appropriate boxes



Apply Close Help

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Example



ł

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2.8 SAVING A DRAWING

The saving of a drawing will be necessary at some stage in the process to have it archived for future reference and use. TraSiCAD has three alternatives of saving a drawing. Saving is initiated from the **File** directory to gain access to one of three options -

Save As, Save and Export

2.8.1 Save As

This saves a new drawing into a default TraSiCAD $\$ Signs directory (see 2.4.1.1). A user defined file name is requested at this point and a .SGN extension will be assigned.

If an alternate location is required, select the required drive (eg C drive) and directory (eg Signage Design) then name the file and select the Save button.

ave Sign File (SUN) ? X Save in: 🕞 Local Disk (C:) 🔹 🕈 🏝 🕂 🖫+	0
Indagent MVINIT MVINIT Monapel Monapel Monapel MVINIT Monapel Monapel MVINIT Monapel MVINIT MVINIT MVINIT	E
s•	
File name: newSgn1.SGN Open	



C:\Temp\new10.5GN C:\Temp\new9.5GN C:\Temp\new8.5GN C:\Temp\new7.5GN C:\Temp\new6.5GN

C:\Temp\new5.SGN

Alt+F4

Ctrl+N Ctrl+O Ctrl+W

Chrl+S

Open

Use Wizard

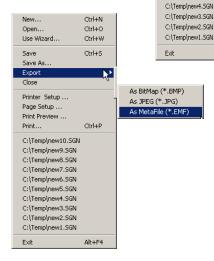
2.8.2 Save

Once a drawing has been initially saved or opened from a file, this function updates and saves any modifications performed on the working drawing to that point. All updates are saved in that <u>same</u> file name and directory.

2.8.3 Export

This feature enables the exporting of a drawing in a non editible Bitmap (*.BMP) and Jpeg (*.JPG) or as an editable Metafile (*.EMF) format.

These formatted files can then be imported into other compatible software programs.



Connecting Queensland

2.9 PRINTING

TraSiCAD has four options to customise drawing printouts. These options can be found in the **File** directory.

2.9.1 Printer Setup

Produces a Printer Setup dialog box that enables the paper size, source and orientation to be modified on a selected networked or local printer.

2.9.2 Page Setup

Produces a Page Setup dialog box with *Layout*, *Title Block* and *Margins* tabs.

2.9.2.1 Layout tab

Enables options that determine ways to,

- Show Dimension Arrows Toggles arrowheads on drawing for clearer viewing and printing
- Change the drawing scale Sets a scale of either **Fit to Page** or **Custom** to determine the view of the drawing on the page.
- Show Patch details Enables any patch details to be separately viewed and printed.
- Show Symbol details
 - Sets a requirement for any symbol details on the drawing to be shown superimposed on a grid pattern, in the print preview or when printed out as an attachment to the sign drawing. See Appendix A When checked, a *Symbols per Page* box appears. This sets the number of symbols required to be set out on each additional page.

As the number increases the grid pattern size will change to suit.

- Determine Printer Setup
 - Enables a separate access to the printer options by producing a Print Setup dialog box that enables paper size, source and orientation to be modified on a selected networked or local printer.

New	Ctrl+N
Open	Ctrl+O
Use Wizard	Ctrl+₩
Save	Ctrl+S
Save As	
Export	
Close	
Printer Setup	Ν
Page Setup	V
Print Preview	
Print	Ctrl+P
Exit	Alt+F4
New	Ctrl+N
Open	Ctrl+O
Use Wizard	Ctrl+W
Save	Ctrl+S
Save As	
Export	
Close	
Printer Setup	
Page Setup	
Print Preview	1
Print	Ctrl+P
Exit	Alt+F4

Show Dimension Arrows	Printer Setup
Drawing Size	
vonneng stor ⊽ Fit To Page	
Palch Detail	
Print Patch Detail	
* Patches must have their PRINT DETAILS property se	t to be printed.
Symbol Detail	
Print Symbol Detail	
Symbos Per Page: 4	

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2.9.2.2 Title Block tab

Gives access to areas, that when filled out, will automatically be installed in the title block of the drawing.

Business Unit and Logo details are recalled from Defaults options (see 2.4.1.3) Details can be modified if required

Logos can be replaced utilising the Load, Delete and Load Defaults functions.

Title Block Font

Sets the font that will be utilised throughout the entire title block.

Sign No.

Usually a drawing record number

Designed

Usually the person completing the drawing.

Checked

Usually an office supervisor.

Add Materials

When selected brings up a list of materials that can be selected and added quickly to the **Specifications** area of the drawing. This materials list can be modified in any text file editor tool (eg. Notepad)

The *materials list* file (materials_list.ini) can be found in the

TraSiCAD directory (for default installations - C:\Program Files\Main Roads\TraSiCAD)

Specifications

Typed and materials list information is inserted in the title block area.

Additional information

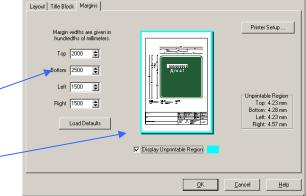
Information inserted outside the title block and inside the drawing area.

Date Last Modified

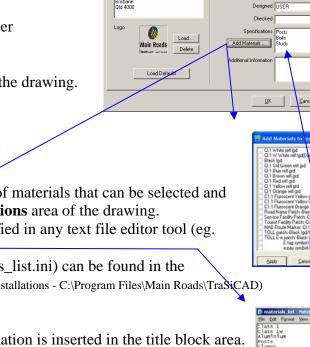
Time and the date drawing last saved.

2.9.2.3 Margins tab

- Allows the setup of the drawing margins with independent sizing of all boundaries or installation of set defaults. (see 2.4.1.3)
- Option to display actual printable area (in blue • colour) along with unprintable region measurements.



Printer setup option.



ayout Title Block Print Margins Title Block Font

•

Sign No. newSan2

ast Modified 21/05/2006 4:33 PM

•

-

4

-

Help

Arial

Title Block Details

Business Unit Main Roads Dep GPO Box 1412

Connecting Queensland

2.9.3 Print Preview

Enables the designer to preview the active drawing to view its details as a printed output. This dialogue box gives five options to aid preview including a Help function for on screen assistance.

Previous

If the drawing contains Route markers or Road Name patches and the *Print Symbol Details* or *Patch Details* boxes are checked in the layout tab of Page Setup (see2.9.2.1), or on the Sign & sub-sign box of Sign Properties, this option will allow scrolling backwards to view other pages in the drawing.

Next

Acts as a forward scrolling button to access other pages in the drawing.

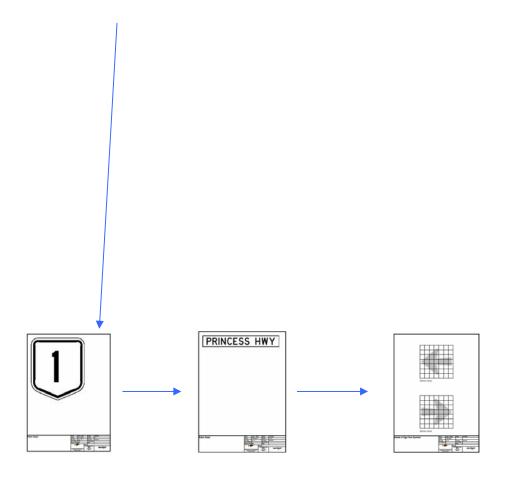
Print

Starts the printing process through a print box where print settings can be checked and modified. **Prints can be made to Adobe PDF files as well as printers** *Set Up*

Reverts to the Page Setup box. See 2.9.2.1

Close

Closes the print preview and reverts to the screen view of the drawing.



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2.9.4 Print

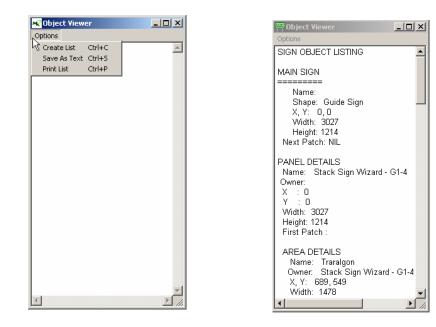
Starts the printing process through a print dialogue box. At this point print settings can be checked and modified before committing to the nominated Adobe PDF or hard copy printer.

See Appendix A for printed output format.

Print Printer Name: <u>\\shf7sw21\hp8100dn3</u> Status: Ready Type: HP LaserJet 8100 Series PS Where: \\shf7sw21\hp8100dn3 Comment:	Properties	1 PRINCES HWY
Print range	Copies Number of copies: 1 * 12 12 K Collate	Traralgon Bairnsdale

- 2.9.5 Sign Object Viewer
- 2.9.5.1 Create List

Option found in Sign Object Viewer as part of Tools \ Options. Allows screen viewing of a created list of parts associated with the active sign design. Details of every element on that sign can be viewed in this list.



2.9.5.2 Save as Text

Allows the Object list to be saved as a text file, for exporting to other documents.

2.9.5.3 Print List

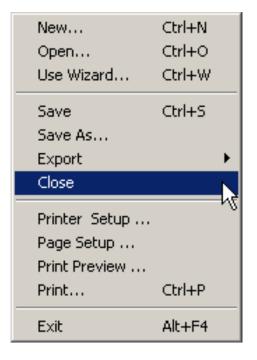
This prints out a copy of the Object list directly from TraSiCAD to the nominated printer.

Connecting Queensland

2.10 CLOSING A DRAWING

On completion of the drawing select File $\$ Close.

Select Close



An Information dialogue box will appear challenging your decision.

Informa	ition 2	<u>s</u>
•	Do you wish to save changes to newSgn1.SGN	
	Yes No Cancel	

• Select **Yes** for the drawing to be either

Saved in the current working file (if the drawing has already been nominated a file name previously)

A file directory dialogue box will appear allowing selection of an appropriate file name in a preferred directory.

• Select No for the drawing to be closed without saving last changes.

or

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CHAPTER 3

LICENSING

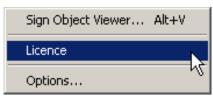
Connecting Queensland

3.0 GENERAL WARNING

Warning !! TraSiCAD is protected by a registered Software protection locking system. Any attempt to bypass this lock licensing software will result in the permanent closing down of the TraSiCAD program.

3.1 Licensing Details

All licensing details and options to extend or transfer the licence of the TraSiCAD program can be found in the Tools / Licence directory.



Selection of the License option will initiate a *Register TraSiCAD* dialogue box indicating the number of days left until the licence expires.

Initial installation of a 30 day evaluation or full year version, registers the TraSiCAD program for that amount of time.

The Register tab indicates TraSiCAD as being the licensed program.

Register TraSiCAD	X
Licence expires in 525 days.	
Register Extend Transfer	
Application: TraSiCAD V2.8	
Unlock Cancel	

Application for the purchase or extension of a TraSiCAD program license must be preceded by payment of the appropriate fees. Application forms (as found on the last page of this manual) and payment should be directed to:-

The Director Traffic Engineering and Road Safety Branch Corridor Management and Operations Division Main Roads Department G.P.O Box 1412 Brisbane, Qld 4001 Ph (07) 3834 7315 Fax (07)3834 9401

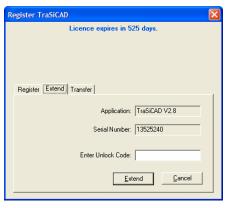
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3.2 Extension of Licence

- On submission of a registration form and payment of appropriate licensing fees an "Unlock code" will be issued to the user. (*Note:- the supplied Registration form will have contained the user's serial*
- *number.*)Select Tools / License
- If the program is already licensed or still in the evaluation period the serial number will be found in the **Extend** tab. If the licence has expired the serial number

will be found on the **Register** tab

- With the serial number displayed enter the supplied Unlock code, provided by the supplier, into the Enter Unlock Code box.
- The Licence expiry date will be upgraded showing:-Licence expires in ... days



3.3 Transfer of Licence

If necessary a TraSiCAD program may be transferred to another personal computer. Note:- only the balance of the unused time of the licence is transferred and the host PC then becomes unlicensed. Any transfer will require the destination PC have an evaluation copy of the TraSiCAD program installed (See Section 2.1 -What is TraSiCAD and 2.2 - Installing TraSiCAD

- Go to the destination PC. (Where the program is to be transferred to and an evaluation copy has been installed.)
- Select Tools / License and the **Extend** tab
- Record the serial number of that installed program.
- Return to the original PC. (Where the program is to be removed from)
- Select Tools / License and the **Transfer** tab.
- Enter the previously recorded serial number (from the destination PC) in the appropriate window.

Register TraSiCAD	×
Licence expires in 525 days.	
Register Extend Transfer	
Application: TraSiCAD V2.8	
Appleator, ThateAp v2.0	
Enter Serial Number of Destination Program	
<u>I</u> ransfer <u>C</u> ancel	

- Click the Transfer button and record the displayed 8 digit unlock alpha numeric code.
- On the destination PC enter that recorded unlock code into the Register or Extension tab as appropriate.

NB. ENSURE ENTRY IS IN CAPITAL LETTERS AND THAT THE ALPHA-NUMERIC SEQUENCE IS ENTERED CORRECTLY.

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Appendix A

Drawing 1	Example of Advance direction Sign without dimensions
Drawing 2	Example of Advance Direction sign showing dimensions
Drawing 3	Example of Route marker layout
Drawing 4	Example of Road Patch layout.
Drawing 5	Example of symbol on grid layout.

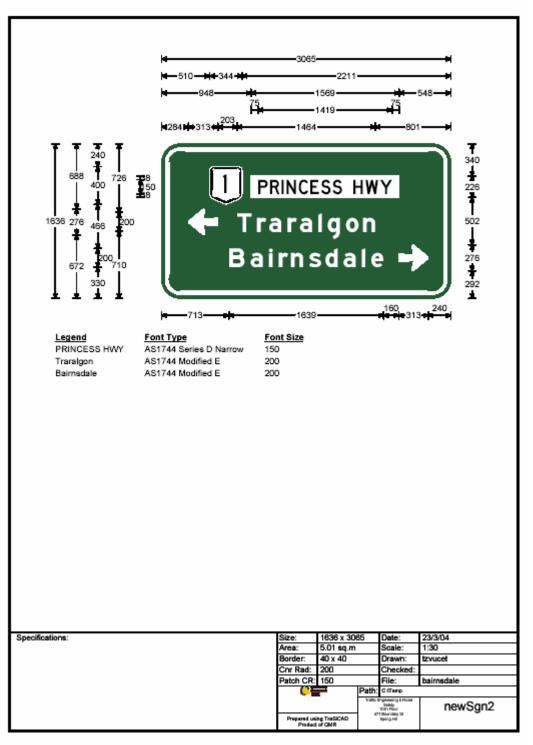
TraSiCAD Order Form

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1 PRINCE Trara Bairns	١g	0	n		→
Specifications:	Size:	1636 x 30	65	Date:	23/3/04
	Area:	5.01 sq.m		Scale:	1:18.9
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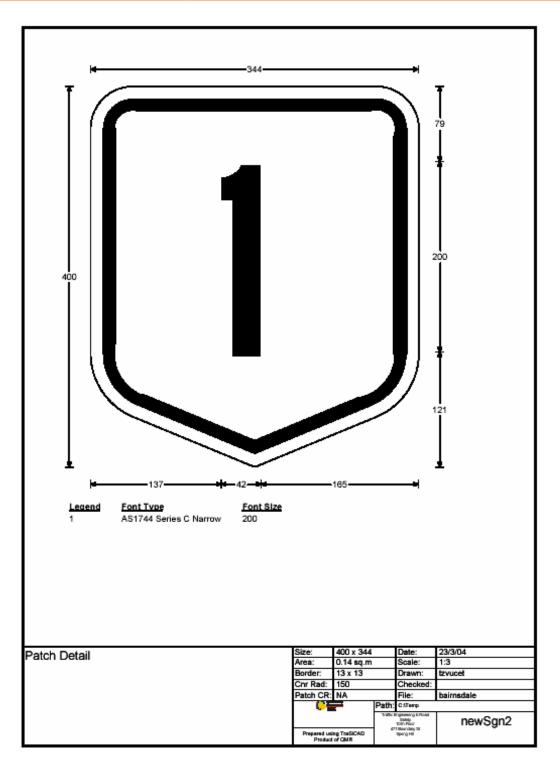
Drawing 1 Option A - Main panel without dimensions

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Drawing 2 Option B - Main panel with dimensions

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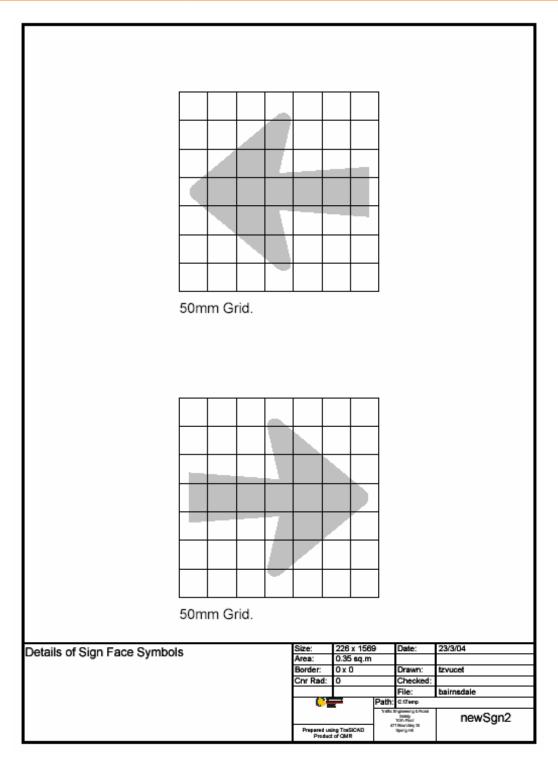
Drawing 3 Route Marker patch details

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Drawing 4 Road patch details

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Drawing 5 Guide symbol details

These details are set out on automatically scaled grids for the easier manufacturing of complex shapes by sign makers. (eg. Arrows, Roundabouts and Diagrammatical symbols)

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Queensland Government Department of Main Roads

Corridor Management and Operations Division Traffic Engineering & Road Safety Branch

Corridor Management and Operations Division aims to support the safe and efficient movement of road users and road freight by achieving maximum traffic performance from existing road infrastructure, and providing specialist services in traffic engineering, intelligent transport systems (development and applications), road safety, heavy vehicle management and traveller information systems.

TraSiCAD - Traffic Sign Computer Aided Design V2.8

TraSiCAD is a Windows application developed by Main Roads to interactively design and draw road signs. The software is very easy to use. Fully dimensioned guide signs that conform with Australian Standard 1743 (Road Signs Specifications) can be created using a 'wizard' tool, or alternatively, non-standard signs can be created from first principles. Australian Standard arrow types and route marker shields are provided as well as a comprehensive selection of service and tourist symbols. Non-standard images can also be imported.

Wizards enable the following signs to be quickly created:

- Advance direction signs (G1-1, G1-2, G1-4, G1-5 and G1-6)
- · Intersection direction signs (G2-1, G2-2 and G3-4)
- · Road name boards (G2-3/G3-4)
- Rural road name finger boards (G3-5)
- Reassurance direction signs (G4-1)

Sign face templates are provided for kilometer plates, warning signs, give way signs, stop signs, pedestrian crossing signs and route markers.

TraSiCAD is now widely used by Queensland Main Roads and the NSW Roads and Traffic Authority, as well as sign manufacturers and design consultants. Feedback suggests design productivity improvements of up to 500% are achievable.

V2.8 enhancements include:

- · More Wizard applications in RTA version
- Extra symbols in MR version

TraSiCAD can be downloaded from

www.mainroads.qld.gov.au - simply type 'TraSiCAD' in the search box in the upper right corner. TraSiCAD utilises software locking technology, which enables it to be installed for a free 30 day trial period. To activate the full version (either during or after the trial period), please complete the details below (making sure that you provide the serial number found on the TraSiCAD start up screen) and send (with a purchase order or cheque payable to 'Main Roads') to:

Tom Vucetic

Main Roads Traffic Engineering & Road Safety Branch Floor 5 - Spring Hill Office Complex GPO Box 1412, Brisbane 4001 Phone: 3834 7315, Fax: 3834 9401 E-mail: TrafficEngineering.support@mainroads.qld.gov.au

An unlock code for the full version will be dispatched via e-mail. The TraSiCAD software will be mailed on CD-ROM. Note that in order to facilitate ongoing development of the software and free maintenance releases/updates, TraSiCAD is licensed for a 12 month period only.

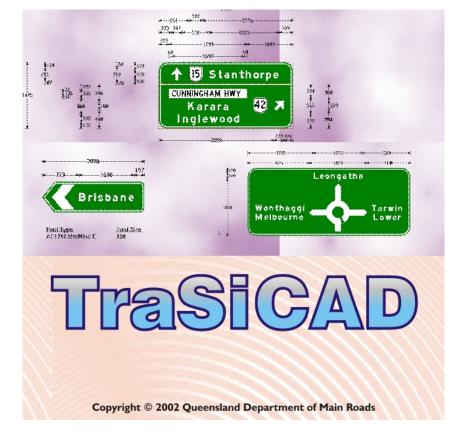
Also, while TraSiCAD supports all Windows fonts, third party fonts that meet Australian Standard 1744 requirements are necessary. Queensland Main Roads currently uses the Traffic Sign Type fonts (refer attached flyer).

NB. Australian Standard fonts are not supplied with TraSiCAD

ORDER / REGISTRATION FORM - TraSiCAD V2.8

Please send me copies of the TraSiCAD V2.8 at \$750.00 per copy per year					\$
Plus 10% GST (excl	uding MR Dept.) (Dep	artment of Main Ro	ads ABN: 5783672	7711)	\$
Total					\$
Cost Centre (MR Dep	ot. purchasers only):	<u></u>			
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Official Use Only				Despatch D	Date
Project Job	C/C	Work Type	Task	PTS Inv. #	Client
	1713				October

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Main Roads Department Corridor Management and Operations Division Traffic Engineering and Road Safety Branch PO Box 1412 Brisbane Queensland 4001 Email:- TrafficEngineering.support@mainroads.qld.gov.au