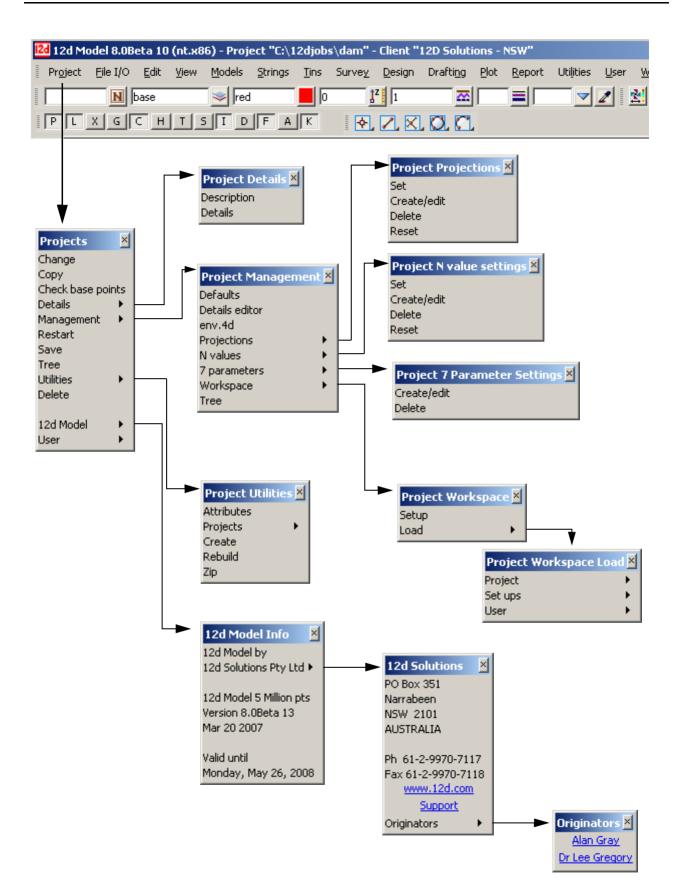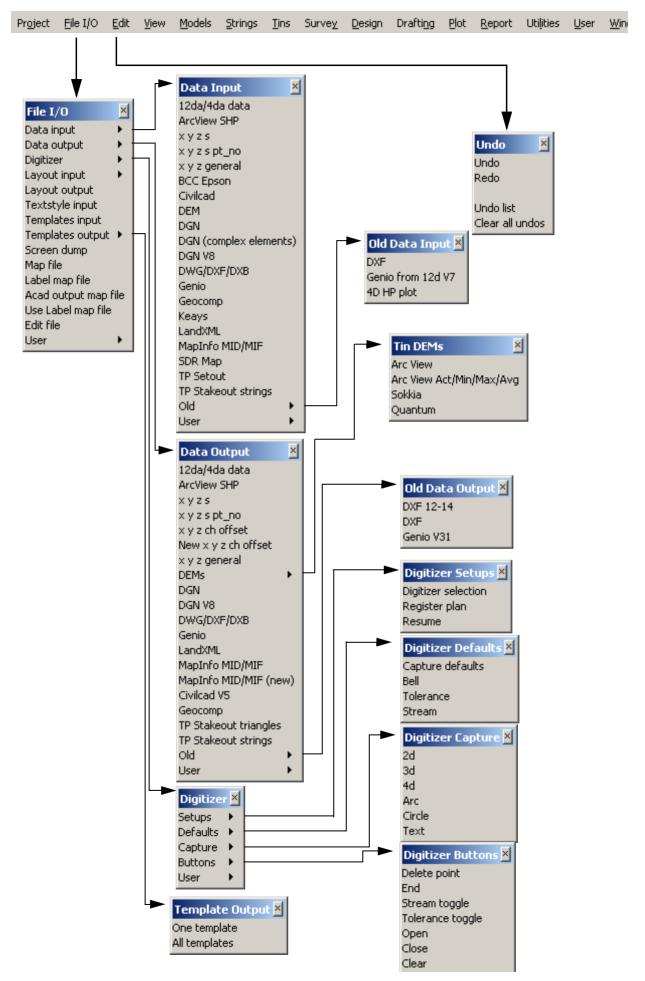# 12d Model 8 Menu Map

The **12d Model 8** menu map shows the menu structure for all the sub-menus on the main 12d Model menu and the menus on the views.

The map is designed to be printed out for users who wish to affix it to a wall.

Project   File I/O   Edit   View   Models   Strings   Tins   Survey   Design   Drafting   Plot   Report   Utilities   User   Win

File I/O ☒
- Data input ▶
- Data output ▶
- Digitizer ▶
- Layout input ▶
- Layout output
- Textstyle input
- Templates input
- Templates output ▶
- Screen dump
- Map file
- Label map file
- Acad output map file
- Use Label map file
- Edit file
- User ▶

Data Input ☒
- 12da/4da data
- ArcView SHP
- x y z s
- x y z s pt_no
- x y z general
- BCC Epson
- Civilcad
- DEM
- DGN
- DGN (complex elements)
- DGN V8
- DWG/DXF/DXB
- Genio
- Geocomp
- Keays
- LandXML
- MapInfo MID/MIF
- SDR Map
- TP Setout
- TP Stakeout strings
- Old ▶
- User ▶

Undo ☒
- Undo
- Redo

- Undo list
- Clear all undos

Old Data Input ☒
- DXF
- Genio from 12d V7
- 4D HP plot

Tin DEMs ☒
- Arc View
- Arc View Act/Min/Max/Avg
- Sokkia
- Quantum

Data Output ☒
- 12da/4da data
- ArcView SHP
- x y z s
- x y z s pt_no
- x y z ch offset
- New x y z ch offset
- x y z general
- DEMs ▶
- DGN
- DGN V8
- DWG/DXF/DXB
- Genio
- LandXML
- MapInfo MID/MIF
- MapInfo MID/MIF (new)
- Civilcad V5
- Geocomp
- TP Stakeout triangles
- TP Stakeout strings
- Old ▶
- User ▶

Old Data Output ☒
- DXF 12-14
- DXF
- Genio V31

Digitizer Setups ☒
- Digitizer selection
- Register plan
- Resume

Digitizer Defaults ☒
- Capture defaults
- Bell
- Tolerance
- Stream

Digitizer Capture ☒
- 2d
- 3d
- 4d
- Arc
- Circle
- Text

Digitizer ☒
- Setups ▶
- Defaults ▶
- Capture ▶
- Buttons ▶
- User ▶

Digitizer Buttons ☒
- Delete point
- End
- Stream toggle
- Tolerance toggle
- Open
- Close
- Clear

Template Output ☒
- One template
- All templates

File I/O   Edit   View   Models   Strings   Tins   Survey   Design   Drafting   Plot   Report   Utilities   User   Window   Help

Views
- Views ▶
- View info
- Create ▶
- Dump
- Rename
- Delete
- Models save/restore
- Models transfer
- Visualisation ▶
- User ▶

View List
- 1 ▶
- 2 ▶
- 3 ▶

View Create
- Plan view
- Perspective view
- Perspective OpenGL view
- Section view

Visualisation
- Tin render settings
- Render drape
- Texture map edit
- Billboards ▶
- Extrusions ▶
- Utiltities ▶

Billboards
- Create and add
- Add/Remove
- Create Forest
- Trees/shrubs

Extrusions
- String along string
- Library extrude
- Roadside furniture
- Create
- Fences
- Tutorial

Visualise Utilities
- Trees/shrubs faces
- Clouds
- Houses
- Line marking
- Explode (text)
- Colour within polygon

Models
- Models ▶
- Model info
- Model info table
- String info table
- Create
- Rename
- Global rename
- Utilities ▶
- Sharing ▶
- Clean
- User ▶
- Delete ▶

Model List
- Project models ▶
- Removed models ▶

Model Utilities
- Attributes
- Add ▶
- Copy project models
- Remove ▶
- Save ▶
- Project Models Utilities
- User ▶

Model Adds
- Add to project
- Add all to project
- Add to view

Model Removes
- Remove from project
- Remove all from project
- Remove from view

Model Saves
- Save a model
- Save all models

Shared Models
- Share
- Add
- Remove

Model Deletes
- Delete a model
- Delete empty models
- Delete all models

Models   Strings   Tins   Survey   Design   Drafting   Plot   Report   Utilities   User   Window   Help

Strings
CAD
Create
Editor
Points edit
Strings edit
Cogo
Convert
Inquire
Properties
Label
Rasters
Utilities
User
Delete

Cad
Points
Lines
Intersect
Circles
Arcs
Polygons
Text
Symbols
Fills
Images
Modify
Change points
Change segments
Change strings
Delete

Cad Lines
Line
Tangent
Line string
Traverse create
Traverse append
Traverse edit
Tape baseline
Tape baseline absolute

Cad Points
By selection
Mid-segment
Centre point
Mid-point
Chainage
Bearing/distance
Offset
Deflection
Perpendicular
Projection
Between points
Between points (3d)
Radiation
Divide segment by number
Divide segment by chainage length
Divide string by number
Divide string by chainage

Cad Intersect
Segments
Offset segments
2 pts 2 bearings
2 pts 2 dist
2 pts bearing distance

Cad Polygons
Rectangle
Rectangle Width Height
Rectangle 3 Points
Parallelogram
Polygon Inscribed
Polygon Circumscribed
Polygon Free Hand
Boundary Polygon
Add Holes
Remove Holes

Cad Circles
3 points
3 tangents
3 tangents direction
2 tangents radius
2 tangents radius direction
2 points
2 points,radius
Point, radius and bearing
Centre, radius
Centre, point
Centre, circumference

Cad Text
Simple edit
Simple create
Create
Create v
Create s
Rotate v
Rotate j
Move v
Move j
Height
Text
Style
Colour
Reset j
Label perp. offset
All
Delete

Cad Arcs
3 points
3 tangents
3 tangents direction
2 tangents radius
2 tangents radius direction
2 points and radius
2 points and end bearing
Centre, start and end
Centre, radius, start and end
Centre, start and sweep angle
Start, radius, arc l, bearing
Start, radius, arc l, chord bearing
Start, radius, chord l, bearing
Fillet
Fillet by start point

Cad Fills
Solid Fill
Solid Fill Many

Cad Images
Insert Image
Move Image
Rotate Image
Scale Image
Width Image
Height Image
Delete Image

Cad Symbol
Simple edit
Simple create
Create
Create v
Rotate j
Move v
Move j
Height
Symbol
Colour
Reset j

String Create

- 2d
- 3d
- 4d
- Alignments ►
- Super alignments ►
- Arcs ►
- Circles ►
- Feature
- Pipe
- Polyline
- Super
- Text
- Create Control Station
- Old ►
- New ►

- Same as
- User ►

Alignments

- Alignment
- Culdesac
- 3 Centre curve
- Circle
- Fillet
- Traffic island

Super alignments

- Super alignment
- Super alignment style
- Design parameters

- Resolve
- Deref
- Parallel
- Split
- Join
- Fixed/floating to IPs
- Change style
- Explode labels
- Move settings

Create Arcs

- Arc
- Centre,start,sweep
- Centre,2 pts on arc
- Centre,radius,2 pts
- 3 pts on arc
- Start, rad, arc l,bearing
- Start, rad, arc l,chord bearing
- User ►

Points Edit

- Append
- Between
- Delete
- Extend
- Extend Ht
- Height
- Insert
- Move
- Add 3pt curve
- Del 3pt curve
- Vertex
- User ►

Create Circles

- Centre,radius
- Centre,pt on circle
- 3 pts on circle
- User ►

Create Circles

- Centre,radius
- Centre,pt on circle
- 3 pts on circle
- User ►

Strings Edit

- Change
- Clip
- Close
- Delete
- Duplicate
- Join
- Join many
- Link clip
- Open
- Parallel
- Reverse
- Split
- Translate
- Textdata info
- Arc to chords
- Segment strings
- Corner splays
- Surrounding polygon
- User ►

Strings Create Old

- 2d
- 3d
- 4d
- Pipe
- Polyline
- Super alignment

Strings Create New

- Interface
- Face

Cad Modify

- Move
- Copy
- Array
- Rotate
- Mirror
- Mirror X Axis
- Mirror Y Axis
- Scale
- Scale Dynamic

Cad Edits

- Move point
- Move point (including z)
- Extend point
- Extend point (ht)
- Extend point by length
- Extend point by length (ht)
- Point append
- Point between
- Point insert
- Point height

Cad Segment Edits

- Segment colour
- Segment radius
- Insert 3pt curve
- Remove 3pt curve

Cad String Edits

- Close
- Open
- Reverse
- Copy
- Parallel
- Extend
- Trim
- Extend by Chainage Length
- Clip
- Clip Internal
- Link clip
- Split
- Join
- Join many
- Join fillet
- Cad Cross Split

Cad Delete

- Points
- Segments
- Strings

Strings Properties ☒
String
Vertex
Vextex (all)
Segment
Segment (all)
Vertex/Segment
Attributes
Super strings ▶
Match

Super Strings ☒
Chainage interval
Visible
Compress
Tinable
Fills
Symbol
Segment colour
Height
Attribute
Vertex id
Pipe/culvert
Radius
Segment geometry
Text
Convert same start/end point strings
User ▶

Create ☒
Point
Line
Between
Perpend
Projection
Tangent
Parallel
Traverse
Radiation

String Labelling ☒
Chainages
Chainages (function)
Cut/fill ▶
Names
Vertices
User ▶

Cut/fill Marks ☒
Tadpoles
Ticks
User symbols
From file

Divide ☒
by #
by dist

Fillet ☒
by 3 pts
by start pt
by radius
strings by radius

Rasters ☒
Create
Create from ECW's
Create from TAB's
Edit
Plan to raster
Set boundary
Reset boundary

Fillet Trim ☒
by start pt
by radius
strings by radius

Cogo ☒
Create ▶
Divide ▶
Fillet ▶
Fillet (T) ▶
Fillet (TJ) ▶
Intersect ▶
Locate ▶

Fillet Trim Join ☒
by start pt
by radius
strings by radius

String Utilities ☒
Chainage
Depth string
Linear regression
Loop removal
Strings from sections
Sections from points

Developments ▶
User ▶
On grade
Old editor

String Developments ☒
Design HG/VG
Kerb returns(test)
Kerb returns
User Attributes
Cogo (trial) ▶

Intersect ☒
Intersect
Offset
by bearings

Locate ☒
Bearing dist
Offset
Deflection
2 pts 2 dists
Chainage

Strings   Tins   Survey   Design   Drafting   Plot   Report   Utilities   User   Window   Help

Triangles ☒
Tins ▶
Tin info
Check breaklines
Create ▶
Edit ▶
Boundary
Colour ▶
Contour ▶
Drape ▶
Tin analysis ▶
Inquire ▶
Null ▶
Utilities ▶
Sections ▶
Sharing ▶
User ▶
Delete ▶

Tin List ☒
Project tins ▶
Removed tins ▶

Tin Create ☒
Triangulate data
Supertin
Function
User ▶

Tin Edit ☒
Tin
Supertin
Function
Retriangulate ▶
Style
Render settings
Add breaklines
Flip triangles

Tin Colouring ☒
Colour of tin
Colour within polygon
Reset
Tin height colour
Tins depths colour
Aspect colouring
Slope colouring
User ▶

Tin Contours ☒
Contour, Smooth and Label
Change
Colour
Contour
Depth contours
Label
Smooth

Tin Drape ☒
Drape
Alignment
Alignment (macro)
Heights for boundary

Tin Analysis ☒
Aspect ▶
Slope ▶
Intersection
Surface area
Surface area 2
Viewshed
Flow arrows
Ridges/Valleys
Depth range polygons
Polygons from colours

Tin Aspect ☒
Aspect analysis
Aspect analysis 2
Aspect analysis 2 (new)

Tin Slope ☒
Slope analysis
Slope analysis 2
Slope analysis 2 (new)

Tin Inquire ☒
Aspect
Colour
Depth from height
Depth from string
Depth between tins
Height
Slope
User ▸

Tin Null ☒
Include/exclude
Null
Reset
by length
by angle/length
by angle/length (seed)
by centroids
by strings
by points
by polygons
User ▸

Tin Adds ☒
Add to project
Add all to project
Add to model

Tin Utilities ☒
Add ▸
Copy
Copy project tin
Grid DTM
Rotated grid DTM
DEMs ▸
Remove ▸
Rename
Report
Save ▸
Tin to strings
Translate/copy
Weed
Z diffs from tins
Z diffs from string to tin
Tin client
Tin client Z Inquire
User ▸

Tin DEMs ☒
Arc View
Arc View Act/Min/Max/Avg
Sokkia
Quantum

Tin Removes ☒
Remove from project
Remove all from project
Remove from model

Tin Saves ☒
Save a tin
Save all tins
Forced Save all tins

Tin Sections ☒
Long section
Mesh
Polygon sections
X sections

Tin Deletes ☒
Delete a tin
Delete all tins

Tins   Survey   Design   Drafting   Plot   Report   Utilities   User   Window   Help

Survey [×]
Setup
Download raw
Convert raw
Create ▶
Edit ▶
Report
Adjustments ▶
Conversions ▶
Geodetics ▶
Traverse Spreadsheet ▶
Conformance ▶
Extras ▶
Leica ▶
Setout ▶
Upload ▶
Mapfile to Field 12d
Field 12d (1100)
TP Stakeout/Setout ▶
Adac write
ADAC read
User ▶

Create Reduction [×]
Field file
Typed entry

Edit Reduction [×]
Function
Field data
Field data by string
Coding ▶
Order ▶
Points ▶
Stringing ▶
Target height ▶

SDR Code Edits [×]
Change
Quick change
Quick mult-code

SDR String Ordering [×]
by points
by CL
Auto order
Remove

SDR Point Edits [×]
Additional text
Attachment
Arc next 3 points
Arc last 3 points
Arc fitting start
Arc fitting end
Circle feature
Invisible
Invisable last seg
Invisable next seg
Non tinable
Non tinable last seg
Non tinable next seg
Pipe invert
Pipe cl
Pipe obvert
Rectangle last 3 points
Rectangle last 2 points
Remove point
Remove height

Survey Adjustments [×]
2D Helmert
Least squares network
Level network
Height adjustment
Traverse adjustment
Traverse Adjustment (new)

Survey Conversions [×]
---Same Ellipsoid---
Australian conversions
Cartographic
NZ conversions
---Different Ellipsoid---
AGD66/84 <--> GDA94
General transformations
IGN72 <--> RGNC1991
NZ49 <--> NZ2000

SDR String Edits [×]
New string
End string
Close
Join
Reverse
2d string
3d string
4d string
Pipe string
Culvert string

Geodetics Measure [×]
Projection bearing/distance entry
E,N, from ellip dist, plane bearing
Plane bearing/distance measure
Projection bearing/distance measure
GDA94/AGD66-84 bearing/distance measure
Long,lat from grid coordinates
GDA94/AGD66-84 point scale factor
Non-projection to projection coordinates
Projection to non-projection coordinates
Bearing/distance label
Projection bearing/distance label
Geodetic reporting
Solar reduction
Star reduction

SDR Target Edits [×]
Insert
Change

Traverse Spreadsheet [×]
Parameters
Create
Edit
Utilities
Lot check
NZ report
Standard report
Drafting
Radiation table
Landonline XML read
Landonline XML write

Survey Conformance ☒
Batter slope report
Pavement report

Survey Extras ☒
Auslig AusGeoid98 *.dat -> xyz
Bearing/Distance entry
Traverse/Radiation
Catenary Measurement
Create Control stations
Check Control model
Linear regression
Export reduction
On grade

Leica GSI ☒
Points
Triangles
Roads

Leica 1100 / TP-Stakeout ☒
Triangles
Triangles (TSC)
Strings
Alignments to HZA/VTA
2d/3d/4d strings to PTA

Leica Outputs ☒
GSI ▶
1100 ▶
1200 ▶
GradeSmart 3D ▶

Leica 1200 / RoadRunner ☒
Strings
Triangles
Roads
Tunnel

Leica GradeSmart 3D ☒
Strings to CL
Triangles to FLT
Triangles to TSB
Strings to PLN
Write CRD file
Read CRD file

Setout ☒
Create centres of string curves
Create x,y text of centres of HIPs
Setout lip line
Setout points
Setout points using super string

Conversions ☒
TP-setout Conversions ▶
TP-stakeout Conversions ▶

TP-setout Conversions ☒
Alignments to TP-setout
Convert polyline to .HZA format
Create BTA
Create BTA User Slope
Create CFA
Create CLO
Create HLA
Create HLA model
Create VTA
Tin to TP-setout 'TSA'
2d/3d/4d strings to TP-setout '.PTA format'

Survey Upload ☒
Create triangle upload file
Create points upload file
Create road upload file
Create points upload file (new)
Create road upload file (new)
Upload

TP Stakeout/Setout ☒
Conversions ▶
Piles and boxes drafting ▶
Subgrade strings ▶
TP conformance ▶

Chainage offset input
Display chainage offset

Cut 2 strings, print level diff
Hatch an area
Model listing

TP data output ▶
TP models ▶
TP triangles ▶

For further details
Contact Mick Gunter
mick.gunter@12d.com

Piles and boxes drafting ☒
Boxes
Boxes (centres)
Piles
Piles to PTA

Subgrade strings ☒
Subgrade intersections
Subgrade parallel

TP conformance ☒
Conformance points vs tin

TP-stakeout Conversions ☒
Alignments to TP-stakeout
Convert polyline to .HZA format
Create BTA User Slope
Create CFA
Create CLO
Create HLA
Create HLA model
Create HOL
Tin to TP-stakeout 'TSA'
2d/3d/4d strings to TP-setout '.PTA format'

TP data output ☒
2d/3d/4d strings to TP-setout '.PTA format'

TP models ☒
List models to file

TP triangles ☒
Tin to TP-setout 'TSA'
List valid triangles

Design Drafting Plot Report Utilities User Window Help

Design ⊠
Templates ▶
Apply ▶
Boxing ▶
MTF ▶
Drainage-Sewer ▶
Pipeline ▶
Volumes ▶
Estate/Lots ▶
Pads ▶
Rivers ▶
Roads ▶
Overlay ▶
X-Sections ▶
More ▶
Ortho ▶

Templates ⊠
Templates ▶
Create/edit
Copy
Rename
Utilities ▶
User ▶
Delete ▶

Template List ⊠
Project templates ▶
Removed templates ▶

Template Adds ⊠
Add to project
Add all to project

Template Utilities ⊠
Add ▶
Input
Output ▶
Remove ▶
Save ▶
User ▶

Template Output ⊠
One template
All templates

Template Removes ⊠
Remove from project
Remove all from project

Template Saves ⊠
Save a template
Save all templates

Design Functions ⊠
Apply defaults
Apply many defaults
Apply
Apply many
Kerb return
String modifiers
Interface
Alignment/Super alignment table
Amend VG
User ▶

Template Deletes ⊠
Delete a template
Delete all templates

Template Boxing ⊠
Create
Create file
Edit ▶
Edit file ▶
Boxing
Boxing many
Boxing many (function)
User ▶

MTF ⊠
Create
Create file
Edit ▶
Edit file ▶
Rename
Apply many
Edit by string
Copy MTF
Delete MTF
User ▶

Drainage Defaults ⊠
Tin (fs)
Manholes
Pipes
Property controls
House connections

Drainage Network Plots ⊠
Longsections
Melbourne Water
Plan annotations

Drainage ⊠
Defaults ▶
Create
Create from strings
String editor
Network editor
Rainfall editor
String split/join
Adjust pit locations
Extract sewer controls
Calc pit overflow areas
Calc flooded widths
Plots ▶
Reports ▶
More ▶

Drainage Reports ⊠
Network quantities
Network report
Property controls
Excavation quantities
Pit schedules
Barwon quantities
Barwon HC's
Barwon design checks
Barwon service reports

ILSAX editors ⊠
Ilsax pipe editor
Ilsax rainfall file editor

More Drainage ⊠
Reverse all strings
ILSAX editors ▶
Delete all attributes in a model
Create pit type from PC Drain gully files
Drains to drainage.4d
Drainage io defaults
Edit drainage.4d
Version 6 ▶

Version 6 ⊠
Misc. utilities
Pit/pipe design interface
Pit schedule
Top ten attribute editor
Convert drainage string to polyline
Create drainage sewer plan

Pipeline ⊠
Create
Editor
Defaults ▶
Plots ▶
Reports ▶

Pipeline Defaults ⊠
Depth to tin
Joints

Pipeline Plots ⊠
Longsections

Pipeline Reports ⊠
Deflection
Crest/sag points

Volumes
End Area ▶
Exact ▶
Grid cell
Stockpile
Tin to tin ht range
Cut/Fill Text in Poly
User ▶

End Area Volumes ✕
Tin to height
Tin to tin
String tin to height
String tin to tin

Sections to height
Sections to sections
Tin to sections
User ▶

Exact Volumes ✕
Between heights
Removal calcs
Storage calcs
Tin to height
Tin to height 2
Tin to ht curve
Tin to tin
Tin to tin 2

Balanced volumes
User ▶

Estate/Lots ✕
Create lots ▶
Edit lots ▶
Filter lots
Number lots ▶
Label lots ▶
Delete lot attributes/text
Setout lots ▶
Report lots
Lot utilities ▶

Create lots ✕
Create lots
Create lots by picking point inside
Create lots by picking segments
Create lots from polygons
Read geocomp lots file

Edit lots ✕
Adjust area ▶
Subdivide area▶

Adjust area ✕
Pivot
Parallel edge
Parallel bearing
Perpendicular

Number lots ✕
Create lot numbers
Change lot numbers

Subdivide area ✕
Pivot
Parallel edge
Parallel bearing
Perpendicular

Label lots ✕
Lot labelling
String h/d labelling

Setout lots ✕
Create lot points number
Drape points

Lot utilities ✕
Colour lots by range file
Remove lot colour
Reverse bearing
Short line/arc table
Short line/arc report
Table utilities

Pads ✕
Balance a pad
Dynamic pad
Create/grade pad
Edit/grade pad

Rivers
HEC-RAS interface ▶
XP SWMM interface ▶
MIKE11 interface ▶
UNET interface ▶
ISIS interface ▶
River Mapper
X-sections rename & move

HEC-RAS interface
Create HEC-RAS project
Read HEC-RAS reports
Import cross sections (GIS file)
Read HEC-RAS intep sections
Read HEC2 data

XP SWMM interface
Create xpx file and run XP SWMM
Read XP SWMM xpx results file

MIKE11 interface
Create Mike11 files
Read Mike11 results (max)

UNET interface
Create UNET CSECT file
Read UNET reports

ISIS interface
Create ISIS file
Read ISIS results

Roads
Create ▶
Sight distance
Trarr output
Trarr input
Vehicle Path ▶
Mass haul
Traffic island
More ▶
User ▶

Create Roads
Create Roads - Manager
Create Roads - Setup

Vehicle Path
Steering Path
Steering Path (Windows Version)

More Roads
Traffic island alignment creation
Island profile/tin
Drape alignment string
Line marking
Mass haul
Road polygons
Road widening
Roundabout
Kerbs special chainage file
Special chainage file
Table drain

Overlay
Overlay
Optimal overlay

X-Sections
Construction tables
Cut/fill polygons from sections
Name cross section by chainage
Polygons from sections
Read x-section file
Sort cross section model
Strings from sections
X-section filter
X-sections along a string
X-sections from cuts thru strings
X-sections from points
Report X-section CivilCAD/Moss/QLD MR format

More Design
Culverts from file
Settlement

Ortho 12d
Create triangles
Start Ortho 12d

Drafting   Plot   Report   Utilities   User   Window   Help

Drafting   ☒
Bearing/distance labelling (1)
Bearing/distance labelling (2)
Create line marking
Create title block
Create crosses for strings
Create cut/fill symbols
Create world grid
Create/edit dimensions
Chainage/offset label-inquire
Display colours, text and line styles
Draw symbols for alignment
Hatch polygon
Multi string translate
North arrow
Quarter points bubbles and table
Scale bar
Text and Tables ....►

Text and Tables   ☒
Defaults
Create quick text
Create/edit paragraph text
Table create/edit
Leader create
Leader edit
Replace text
Reverse bearing
Short segment table
Short segment report
Short segment table utilities
Alignment/super alignment table
Tabulate alignment - IP's TC's
Tabulate alignment - elements
Tabulate kerb return
Tabulate range file
Tabulate symbol/linestyle legend
Text file input

PPF Editors   ☒
Cross sections
Long sections
Plot frames
Drainage
Drainage plan
Melbourne Water
Pipelines

Convert ascii to binary
Copy title data

Plot a binary ppf   ☒
Plot Cross sections   ►
Plot Long sections   ►
Plot Plot frame   ►
Plot Drainage   ►
Plot Drainage plan   ►
Plot Melbourne water   ►
Plot Pipeline   ►

Plots   ☒
Plot and PPF Editors ►

Plot binary ppf's   ►
Edit binary ppf's   ►

Plot frames   ►

Plotting setups   ►
Old plotting   ►
User   ►

Edit a binary ppf   ☒
Edit Cross sections   ►
Edit Long sections   ►
Edit Plot frame   ►
Edit Drainage   ►
Edit Drainage plan   ►
Edit Melbourne water   ►
Edit Pipeline   ►

Plot Frames ☒
Create
Editor
Change
Copy
Plot
Rotate
Translate
Delete
More   ►

Old Plotting   ☒
Edit a ppf   ►
Plot a ppf   ►
X plot
Long plot
Long Section Plot Many
Drainage/Sewer
Melbourne Water
Pipeline

Edit title block alias data

Create plot frame
Edit plot frame
Plot plot frame

Plotting Setups   ☒
Create/edit title block file
Read title block file

Pen mapping
Plotter mapping editor
Plotter mapping
Pixels to mm
Hardware arcs

ACAD plot map file
Interface colours
DGN plot seed file
Default DPI
DWT plot template file

More Plot Frames ☒
Plot frames along string
Plot frame insert
Plot frame seed create

Plot   Report   Utilities   User   Window   Help

String Reports ⊠
Coords/Brg-Dst
Crest/sag points
Names
Super alignment
Super strings
More   ►

Function Reports ⊠
One
All

Reports ⊠
Edit   ►
Strings   ►
Functions   ►
Length/Area
Set-out   ►
Quantities
Xfall/offset
QA Reports ►
More   ►
User   ►

Set-Out Report ⊠
Old Setout Report
Setout Report
Radial Report

QA Reports ⊠
Check asbuilt string vs design string
Check asbuilt string vs wall tin
Check points above tin
Check points vs tin
Check survey points vs design points

More Reports ⊠
4d strings
Alignment - strings cut
Alignment z diff from tin
Alignment string
Alignment table - IP's TC's
Alignment table - elements
Area by string colour
Construction tables
Diff elev between x-section and tin
Quarter points bubbles and table
Report min z
Rough areas between sections
X-section CivilCAD/Moss/QLD MR format

...port   Utilities   User   Window   Help

Utilities
Snaps

Chains
Functions
Macros
Measure
Recalc

Fence
Super strings
A-G
H-Z
User

Snaps Ops
Snaps
Snaps (Vert)
Cogo
New

Snaps Cogo
Create
Divide
Fillet
Intersect
Locate

XTRA Snaps
Tangential
Perpendicular
Normal

Snap Create
Point
Line
Between
Perpend
Projection
Tangent
Parallel

Snap Divide
by #
by dist

Snap Fillet
by 3 pts
by start pt
by radius

Snap Intersect
Intersect
Offset
by bearings

Snap Locate
Bearing dist
Offset
Deflection
2 pts 2 dists
Chainage

Recalc Chains
Create
Edit
Recalc
Rename a chain
Delete a chain
Copy a chain

Functions
Functions
Editor
Lock
Order
Recalc
Rename
Add
Save
User
Delete
Delete many

Recalc
Auto
Editor
Edit data
Recalc
Recalc all
User

Edit chain
Run chain

Function Auto
Auto
Auto all

Function Adds
Add all to project

Function Saves
Save a function
Save all functions

Function Deletes
Delete a function
Delete all functions

Macros
Compile
Compile/Run
Create
Edit
Run
Version
User

Measure
Angle x 3 pts
Bearing/Distance
Plan area
Surface area
Value
XFall by strings
User

Recalc
Auto
Editor
Edit data
Recalc
Recalc all
User

Edit chain
Run chain

Function Auto
Auto
Auto all

Super Strings
Chainage interval
Visible
Compress
Tinable
Fills
Symbol
Segment colour
Height
Attribute
Vertex id
Pipe/culvert
Radius
Segment geometry
Text
Convert same start/end point strings
User ▶

Fence
Fence
Fence stem
Multi fence
Multi fence stem
User ▶

Utilities A-G
Affine 2D
Cartographic
Change
Change string chainage
Check breaklines
Check strings
Convert ▶
Create centres of string curves
Cuts ▶
Delete
Duplicate
Explode
Explode (text)
Factor
Filter ▶
Create Grid
User ▶

Convert
Convert
2d to 3d
3d to 2d
4d to 3d
Text to 3d
Poly to Alignment
Same start/end point strings

Cuts
by strings
by centreline

Filter
String filter
Vertex filter
z filter

Utilities H-Z
Head to tail
Height
Helmert 2D
Inquire
Map
Null heights ▶
Polygon Logic
Rotate
Rename strings
Set heights for 2d/super strings
Smooth strings
Swap XY
Text
Find/Replace Text
Translate
Test wildcards
User ▶

Null Height Ops
Height
Height range
Null to height

Plan 16

View "1"
Models ▶
Settings ▶
Redraw
Fit
Previous
Zoom ▶
Pan ▶
Utilities ▶
Delete

Model Ops "1"
Models ▶
Add model ▶
Add all models
Remove model ▶
Remove all models
Remove tin models ▶
Model order
Models to front ▶
Models to back ▶
Calc extents

Toggle "1"
Culling [off]
Linestyles [on]
Sewer [n/a]
Text [on] ▶
Vertices [n/a] ▶
Vertex indices [n/a] ▶
Z values [n/a] ▶
String names [n/a] ▶
Attributes [n/a] ▶
Arc centres [n/a]
Tin contours [n/a]
Tin edges [n/a]
Tin flow [n/a]
Tin solid [n/a]
Grid [off]
Rasters [n/a]
Point id's [n/a] ▶

View Settings "1"
Toggle ▶
Culling
Faces
Linestyles
Rotate
Sewer
Plotting scale
Text ▶
Tins ▶
Vertices ▶
Point/Vertex id's ▶
Vertex indices ▶
Z values ▶
Names ▶
Attributes ▶
Arc centres
Work plane
Rasters
Grid
Colour
Drawing Filter

Model text "1"
Text
Single
Table
Toggle ▶

Tin Settings "1"
Contours
Edges
Flow arrows
Mesh
Solid

Vertices "1"
Single
Table
Toggle ▶

Vertex id's "1"
Single
Table
Toggle ▶

Vertex Indices "1"
Single
Table
Toggle ▶

Z Values "1"
Single
Table
Toggle ▶

String Names "1"
Single
Table
Toggle ▶

Plan Attributes "1"
Single
Table
Toggle ▶

Zoom Ops "1"
by String
by Model
by View
Zoom
Shrink
factor
2x in
3x in
4x in
8x in
8x out
4x out
3x out
2x out

Pan Ops "1"
Pan
Pan delta
Many pans
Many pans delta
Autopan plan view
Autopan section view

View Utilities "1"
New view
Dump
Plot
Plot frames
View to raster

Perspective fly over

View "3"
Models ▶
Settings ▶
Redraw
Fit
Previous
Eye/Target
Joy
Utilities ▶
Delete

Model Ops "1" ✕
Models ▶
Add model ▶
Add all models
Remove model ▶
Remove all models
Add tin models ▶
Remove tin models ▶
Model order
Models to front ▶
Models to back ▶
Calc extents

Toggle "3" ✕
Tin contours [n/a]
Tin edges [n/a]
Tin flow [n/a]
Tin mesh [n/a]
Shade [n/a]
Extrusions [n/a]
1x
2x
5x
Grid [off]

View Settings "3" ✕
Toggle ▶
Culling
Faces
Hide
Planes
Exaggeration
Tins ▶
Shade
Work plane
Grid
Colour
Drawing Filter

Tin Settings "3" ✕
Contours
Edges
Flow arrows
Mesh
Shade

View Utilities "3" ✕
String drive ▶
String walk ▶
String movie ▶
Tin shade
Dump
Plot

String Drive "3" ✕
Along string
Fixed target

String Walk "3" ✕
Along string
Fixed target

String Movie "3" ✕
Along string
Fixed target

Section Drawing

View "2"
Models ▶
Settings ▶
Redraw
Fit
Previous
Zoom ▶
Pan ▶
Profile ▶
Regenerate
Plotting ▶
Utilities ▶
Delete

Model Ops "1"
Models ▶
Add model ▶
Add all models
Remove model ▶
Remove all models
Add tin models ▶
Remove tin models ▶
Model order
Models to front ▶
Models to back ▶
Calc extents

View Settings "2"
Toggle ▶
Corridor
Draw tolerance
Drainage
Extend
Geom annot
Grade annot
Exaggeration
Grid
Colour

Toggle "2"
Grades [n/a]
HG [on]
VG [on]
1x
2x
5x
10x
20x
Exaggeration
Grid [off]

Zoom Ops "2"
Zoom
Shrink
factor
2x in
3x in
4x in
8x in
8x out
4x out
3x out
2x out

Pan Ops "2"
Pan
Pan delta
Many pans
Many pans delta
Autopan plan view
Autopan section view
Autopan perspective view

Profiling "2"
One string
Many strings
Model strings
2 Points
Perpendicular to CL
One substring
Many substrings
Super alignment

View Utilities "2"
New view
Report
VG edit
Dump

View Plotting "2"
Plot
Long plot
X plot
Drainage/Sewer
Melbourne Water
Pipeline