

Infra Applications



In short, Infra Applications is a simple, cost effective and time saving way to do civil engineering works.

Infra Applications is a collection of civil engineering applications. It is specially designed for civil and structural consulting engineers. It consists of Drain Network Analysis and Design (DNAAD), Sewer Network Analysis (SNAAD) and Design and Earthworks Computation (EC).

One of the main tasks as civil and structural consulting engineers is to prepare design drawings. Civil engineers may know that they are always in fighting with time. A number of clients who they meet will only asking for engineering drawings. These clients may not want to know how good an engineering design is! They only concern about when the engineering drawings can be ready. As a result, a civil and structural engineer will always looking for a smart way to prepare the engineering drawings. As current market, civil and structural consulting firm also facing problem in get experience draft persons and civil and structural engineers.

Shortage of experience draft persons and civil engineers!

The shortage can be overcome by using computer software such as Infra Applications

Infra Applications offers a good solution for civil and structural engineers. It comes out with a total solution. Infra Applications can offer a solution for civil engineering works. The solutions are output in layout, cross sections and design calculation. These solutions are primary target for civil engineers. Engineers need layout and cross section drawings for construction and quantities. Engineers need design calculation for submission to relevant authorities. In short, it means that these software can do drafting in layout and cross sections, it can produce design calculations. Do more with work less!

Output drawings in layouts and cross sections; and design calculations!

Most of the time, beside site matters; civil and structural engineers are always in position of producing drawings and design calculations. The engineers also facing problem on producing a few project's drawings in the same time. Design office works are important. Failure to produce these will cause civil and structural engineers losing their business.



Do more with work less!

Infra Applications Benefits.

In short, it summary as below:

Simple, affordable and easy to learn!

Infra Applications is simple software that only requires some civil engineering knowledge to work on. The user who has manually design civil engineering knowledge will able to learn the software in short of period. The software is custom make to suit civil engineers used. It targeted for consulting engineers. Infra Applications is not like other total solution engineering software; where engineer needs to do drafting and design concurrently. The software was created in such a way that drafting works remain to draft person and design work to designer or civil engineer.

In a way, civil engineers do not require to do drafting. Engineers can 'SAVE' out the drafting time to do more effective tasks. No doubt, engineer can do drafting works in Infra Applications. It has become optional.

Infra Applications has been simplified that only practical items are incorporate into program. It will not performs very detail calculations.

Below are the benefits of Infra Applications:

***Time saving on drafting and design**

It replaces manual computation and drafting by computer especially the iteration work on network and transferring data from design output into layouts and cross sections.

***Simple civil engineering software**

Software created by making it simple, less design parameter and reduces complexity. User with basic understanding of civil engineering works can easily catch up.

***Short learning curve of software**

With some technical knowledge on civil engineering, user is able to learning the software in very short of time. It does not required intensive training like other complicated engineering software.

***Do not require very technical person to use software**

Since design or drafting work can partly given to draft person to work out, designer or civil engineer needs to work only on the design portion. Even engineer can train civil engineering draft person to use the software.

As we know; It is common that special trained operator on certain special software is highly demand in market. Consulting engineer firm may face this dilemma. With simple software, the operator can be able to replace by another person any time. The software will not be “wasted” by reason of no one can operate the software.

***Interlink with CAD software**

Software is created in such a way that interlink with common CAD software in market. CAD software that supported is AutoCAD and IntelliCAD compatible. User does not require to learn new CAD application. It works in CAD software. A CAD operator can easily pick up to use the CAD portion of software.

***Affordable**

The cost of software can easily be returned by a small scale of few acres project size. The maximum price of software is about RM6500.00. Consulting engineer does not needs to worry of wrong investment of buying the software. The risk of software is low.

Infra Application Features. *Our list of features wills surprisingly you.*

Each application is rich in features. Software is continually being improved and updated to ensure our customers’ benefit from the latest in software technology. Software features such as:

***Ease of use**

A clear, user friendly interface includes help. Software is automatically checks for mistakes during data input. It ensures a high level of accuracy in design work.

***Easy Installation & Flexible Licensing**

Installing software is simple. It provides flexibility of transferring software license by introducing of hardware dongle. Simply shift the hardware dongle to another system; user is able to use software. The software can be installed to any number of computer systems. Without hardware dongle, the software will perform as DEMO mode. Infra Applications also be created that support on most common operating system in market. It supports Microsoft Windows 98SE, XP and Vista.

***CAD applications.**

Since most of consulting engineers firm has CAD software, Infra Applications offer an Interlink feature. The Interlink feature available in DNAAD, SNAAD and EC. Our software provides support on multiple versions of AutoCAD to minimize the need to upgrade frequently. It works on AutoCAD 2000 or later.

Besides, software also provides further support in BricsCAD V8.0 Professional Version. Bricscad provide an optional budget CAD software. It can save user for investing in expensive AutoCAD software.

***Multiple units support.**

Infra applications allow user to use metric or imperial unit in design.




***Flexibility of custom sizes in DNAAD and SNAAD.**

Software allows user to custom define own sizes in design of DNAAD and SNAAD.

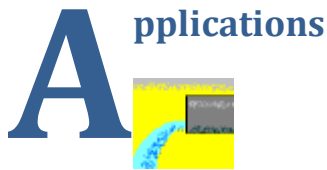
***Free Updates**

Software’s latest fixes and minor new features are available on our website at no additional cost to customers.

As a result, software is producing final products that are a “NEED” for civil engineer in dealing with civil engineering works. It listed as below:

-  *Output in layout**
-  *Output in cross sections*
-  *Design calculation*

*It needs CAD software to work on.



Drain Network Analysis and Design (DNAAD)

DNAAD is a software that resolve problem in drain network. Drain network design is the most tedious work in drain design. No doubt is it simple but it is time consuming. With DNAAD, it can provide a great help to civil engineer. DNAAD can carry out computation in drain sizes, gradients, and invert levels. Finally produce cross sections drawings in DXF format. Somehow, it also produces an optional feature in CAD software. User can start drawing nodes and lines for a drain network in CAD software. After that user can transfers the file data to DNAAD software to perform further computation.

- Simple spread sheet format
- Calculate sizes, gradient and levels.
- Generate cross section drawings in DXF.
- Easy input and fast output.
- Incorporate part of MSMA (Malayisa only).
- Simple quantities computation.
- CAD input and output.
- Design data can export to Microsoft Excel.



Sewer Network Analysis and Design (SNAAD)

SNAAD is a software that has similar feature as DNAAD. It resolves the problem of sewer network design. Sewer network design also is a simple but tedious computation as drain network. It requires sewer reticulation to calculate sizes, gradient and levels. Final result to be transferred into sewer layout drawing and cross section drawings. SNAAD is able to produce layout in CAD file and cross sections drawing in DXF format. The ability of

layout producing requires a independent of CAD software such as AutoCAD or IntelliCAD compatibles.

- Simple spread sheet format
- Calculate sizes, gradient and levels.
- Generate cross section drawings in DXF.
- Easy input and fast output.
- Incorporate IWK format (Malayisa only).
- Simple quantities computation.
- CAD input and output.
- Design data can export to Microsoft Excel.



Earthworks Computation (EC)

EC is simple software that performs earthwork quantities computation. Method of computations are grid system method and cross section method. It speeds up quantities computation. User has to input proposed levels and existing levels into software and let software to perform necessary tasks.

- Grid system and cross section method
- Calculate cut and fill and total volume.
- Generate cross sections drawing in DXF format.
- Graphical display.
- Suitable for property developers and earthworks contractor.
- CAD input for cross section method.

Crash Control (CC)

Crash control is a special module that only available for user who has DNAAD and SNAAD software. CC must work under DNAAD and SNAAD. After outputs are obtained in CAD application, user is able to run CC to check any crash sewer and drain line. CC will inform user that which location of crash or conflict of networks. This module is "FREE" for DNAAD and SNAAD user.

Summary

Each productivity of software can be purchased separately or as a bundle copies for adding saving. The choices of applications depend on user requirement. User can refer to our pricing list for further information.

Thanks for interested in our software. Please visit our website at www.civilstructural.com.my to get more information on the products.

You can also contact us by email, phone or fax anytime to the following contact.

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 Malaysia

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 Website www.civilstructural.com.my

POPULATION EQUIVALENT TABULATION
 Project: Job No:
 Date: 26/2007
 Designer: Sheet: 1

Item	Type of material/quantity	Quantity	Population equivalent	EQ Total PE
1	Concrete Deck 150mm	20.00	1.00	20.00
2	Concrete Deck 100mm	15.00	0.75	11.25
3	Concrete Subgrade	10.00	0.50	5.00
4	Concrete Subgrade	10.00	0.50	5.00
5	Concrete Road Pavement 100mm	20.00	1.00	20.00
6	Concrete Road Pavement 150mm	20.00	1.00	20.00
7	Concrete Road Pavement 200mm	20.00	1.00	20.00
8	Concrete Road Pavement 250mm	20.00	1.00	20.00
9	Concrete Road Pavement 300mm	20.00	1.00	20.00
10	Concrete Road Pavement 350mm	20.00	1.00	20.00
11	Concrete Road Pavement 400mm	20.00	1.00	20.00
12	Concrete Road Pavement 450mm	20.00	1.00	20.00
13	Concrete Road Pavement 500mm	20.00	1.00	20.00
14	Concrete Road Pavement 550mm	20.00	1.00	20.00
15	Concrete Road Pavement 600mm	20.00	1.00	20.00
16	Concrete Road Pavement 650mm	20.00	1.00	20.00
17	Concrete Road Pavement 700mm	20.00	1.00	20.00
18	Concrete Road Pavement 750mm	20.00	1.00	20.00
19	Concrete Road Pavement 800mm	20.00	1.00	20.00
20	Concrete Road Pavement 850mm	20.00	1.00	20.00
21	Concrete Road Pavement 900mm	20.00	1.00	20.00
22	Concrete Road Pavement 950mm	20.00	1.00	20.00
23	Concrete Road Pavement 1000mm	20.00	1.00	20.00
24	Concrete Road Pavement 1050mm	20.00	1.00	20.00
25	Concrete Road Pavement 1100mm	20.00	1.00	20.00
26	Concrete Road Pavement 1150mm	20.00	1.00	20.00
27	Concrete Road Pavement 1200mm	20.00	1.00	20.00
28	Concrete Road Pavement 1250mm	20.00	1.00	20.00
29	Concrete Road Pavement 1300mm	20.00	1.00	20.00
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31	Concrete Road Pavement 1400mm	20.00	1.00	20.00
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38	Concrete Road Pavement 1750mm	20.00	1.00	20.00
39	Concrete Road Pavement 1800mm	20.00	1.00	20.00
40	Concrete Road Pavement 1850mm	20.00	1.00	20.00
41	Concrete Road Pavement 1900mm	20.00	1.00	20.00
42	Concrete Road Pavement 1950mm	20.00	1.00	20.00
43	Concrete Road Pavement 2000mm	20.00	1.00	20.00
44	Concrete Road Pavement 2050mm	20.00	1.00	20.00
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57	Concrete Road Pavement 2700mm	20.00	1.00	20.00
58	Concrete Road Pavement 2750mm	20.00	1.00	20.00
59	Concrete Road Pavement 2800mm	20.00	1.00	20.00
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