



Geo-Reference Database

Introduction:

Geo-Reference Database provides geographic references information for users to carry out location enquiry and spatial analysis.

Types of Geo-reference Database:

<i>(A) Building Name and Address</i>	<i>(BG1000)</i>
<i>(B) Site Polygon</i>	<i>(SG1000)</i>
<i>(C) Road Centre Line</i>	<i>(RG1000)</i>

Formats available:

	ASCII	DXF	DWG	DGN	E00
(A) Building Name and Address (BG1000)	✓	—	—	—	—
(B) Site Polygon (SG1000)	✓	✓	✓	✓	✓
(C) Road Centre Line (RG1000)	✓	✓	✓	✓	✓

Database Structure:

<u>Format</u>	=	<u>Data File(s)</u>	+	<u>Textual Information</u>	+	<u>Additional Information</u>
ASCII	=	<sheet>.txt	+	<sheet>.sdf	+	add_<sheet>.csv
E00	=	<sheet>.E00	+	---	+	add_<sheet>.csv
DGN	=	<sheet>.dgn	+	<sheet>.csv	+	add_<sheet>.csv
DWG	=	<sheet>.dwg	+	<sheet>.csv	+	add_<sheet>.csv
DXF	=	<sheet>.dxf	+	<sheet>.csv	+	add_<sheet>.csv

(A) Building Name and Address (BG1000)

The Database of the Building Name and Address (BG1000) contains **textual information only** and is used in relation with the B1000 Topographic Maps. In the database, the Bldgpoly.txt file stores the coordinates of the label point and the Building ID of the Building Block, while the textual information of the database is stored in the Bldgpoly.sdf file and additional information of the same geo-referenced record is stored in the add_bldgpoly.csv file.

The database consists of the following information and is available in **ASCII** format only:

- Building ID*
- Geographic Reference Number of the Label Point of Building Block (the X and Y coordinates)*
- Building Name*
- Starting and Ending House Number*
- Address Type (Even, Odd or Sequential)*
- Street Name and Street Code (street where the building is located)*
- Building Top Level*
- Site Code*

1) Content Sample of Building Name and Address (Bldgpoly.sdf files): *St. Teresa's Church*

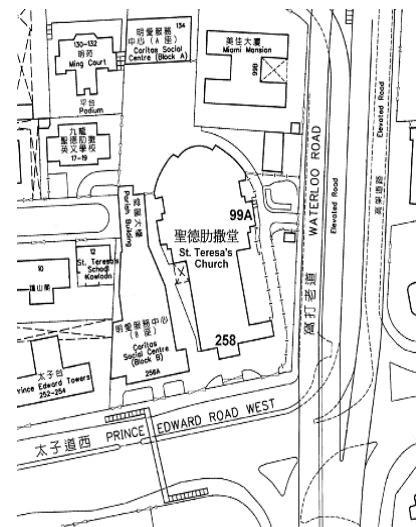
7659,"3638720806","St. Teresa's Church",聖德肋撒堂,258,258,E,"PRINCE EDWARD ROAD WEST",太子道西,11788,30.4,79590

Labels in diagram:
 - Geographic Reference No. of Building Block (X-Y coordinates) i.e. 836387mE 820806mN (Label Point)
 - Building ID (assigned)
 - Building Name
 - Starting House no., Ending House no.
 - Address Type (E=even)
 - Street Name
 - Building Top Level
 - Site Code

2) Content Sample of Building Name and Address (Add_bldgpoly.csv files): *St. Teresa's Church*

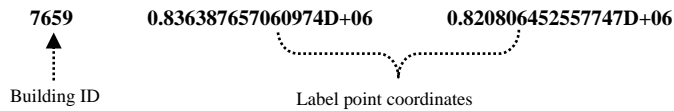
"3638720806","St. Teresa's Church",聖德肋撒堂,99,A,99,A,O,"WATERLOO ROAD",窩打老道,12690,79590

Labels in diagram:
 - Geographic Reference No. of Building Block (X-Y coordinates) i.e. 836387mE 820806mN (Label Point)
 - Building Name
 - Starting House no., Ending House no.
 - Address Type (O=odd)
 - Street Name
 - Building Top Level
 - Site Code



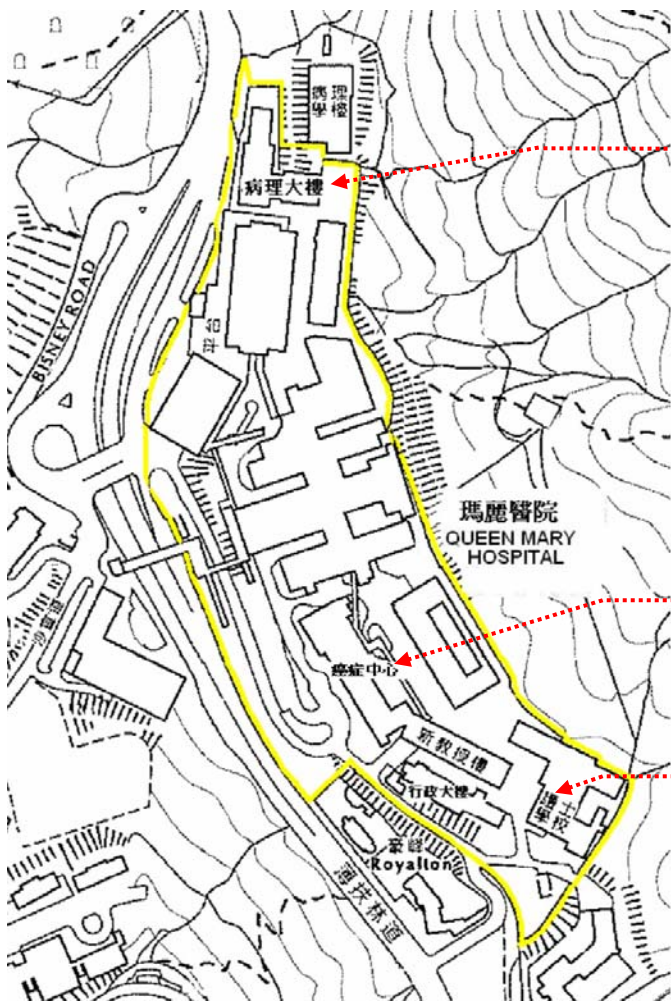
(Topographic Map for reference only, not include in the G1000 data)

3) Content Sample of Building Name and Address (Bldgpoly.txt file): *St. Teresa's Church*



Special case (for example Queen Mary Hospital):

For building polygons that share the same address, e.g. buildings within one site polygon, the corresponding address information will be given in the same Site Polygon only. **Complete** address of the building in BG1000 can be obtained from the linkage with the record in the SG1000 by using the common **Site Code**.



Records of building information in **BG1000**:

- 8268,"3153514752","Clinical Pathology Building",臨床病理大樓,0,,,"",,0,174.1
76251
- 8344,"3152914694","QUEEN MARY HOSPITAL Block K",瑪麗醫院K座,0,,,"",
",,0,253.8,76251
- 8439,"3148914630","QUEEN MARY HOSPITAL Block S",瑪麗醫院S座,0,,,"",
",,0,195.8,76251
- 8714,"3162514505","Queen Mary Hospital Nurses' Quarters Block A",瑪麗醫院護士宿
舍A座,0,,,"",,0,183.5,76251
- 8756,"3156914524","Cancer Centre",癌症中心,0,,,"",,0,177.5,76251
- 8904,"3161714460","New Clinical Building",新教授樓,0,,,"",,0,176.5,76251
- 8999,"3168614413","School of General Nursing",護士學校,0,,,"",,0,191.2,76251

(Topographic Map for reference only, not include in the G1000 data)

Record carries the address information in SG1000 :

337,"3148714622","QUEEN MARY HOSPITAL",瑪麗醫院,102,,102,,E,"POK FU LAM ROAD",薄扶林道,11768,76251 Site Code

(B) Site Polygon (SG1000)

A site is an area of estate, village, park, hospital, university etc. or area with more than one main building serving the same nature of property, e.g. police station, private residential site.

In ASCII format, the <site>.txt file stores the coordinate data while the <site>.sdf stores the corresponding textual information of the database. Whereas the additional information of the same geo-referenced record is stored in the add_<site>.csv file.

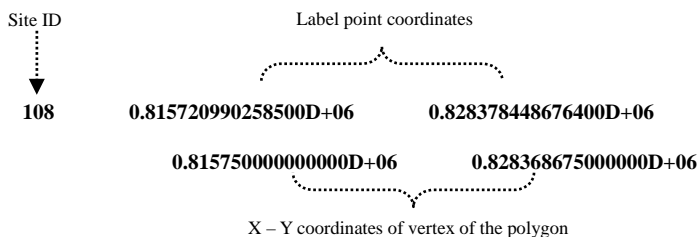
In E00, DGN, DWG and DXF formats, the <site>.E00, <site>.dgn, <site>.dwg and the <site>.dxf are the respective drawing files. The textual information is stored in the <site>.csv file, which is linked to the concerned record by using a common ID (Site ID).

The database of Site Polygon consists of the following information:

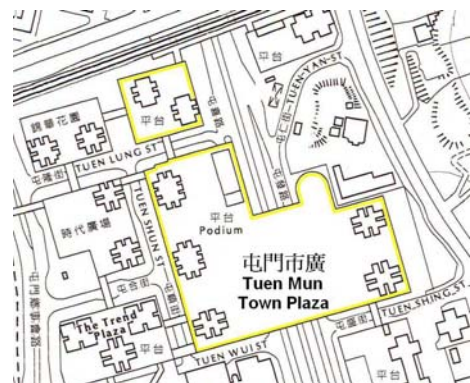
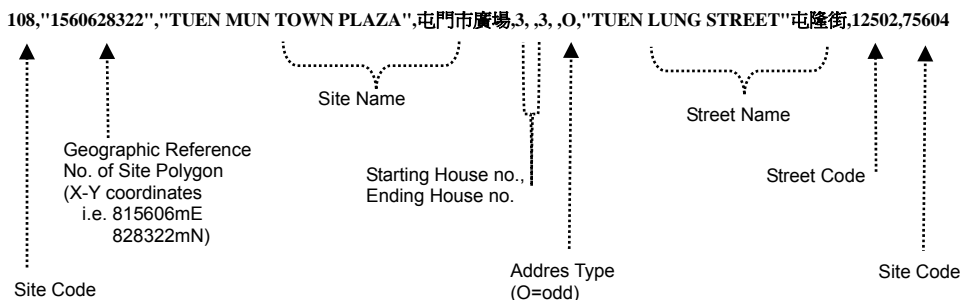
- Site ID
- Geographic Reference Number of Site Polygon (the X and Y coordinates)
- Site Name
- Starting and Ending House Number
- Address Type (Even, Odd or Sequential)
- Street Name and Street Code (street where the site is located)
- Site Code
- X & Y coordinates of vertices of the polygon

Examples:

1) Content Sample of Site Polygon (Site.txt file in ASCII format) : Tuen Mun Town Plaza

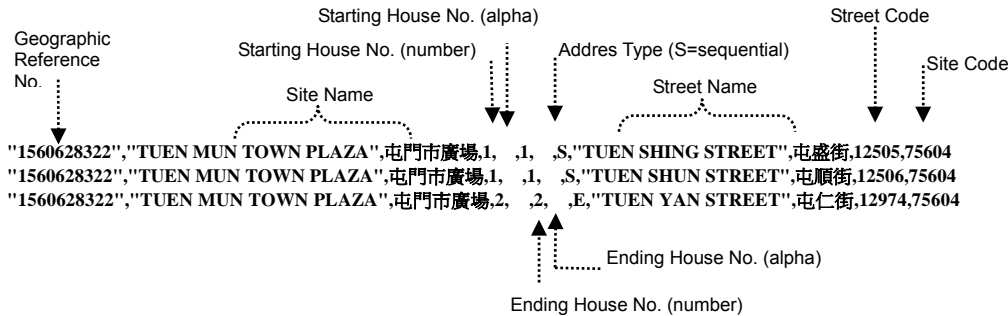


2) Content Sample of Site Polygon (Site.sdf file in ASCII format): Tuen Mun Town Plaza



(Topographic Map for reference only, not include in the G1000 data)

3) Content Sample of Site Polygon (Add_site.sdf file in ASCII format): Tuen Mun Town Plaza



In the Site Polygon (SG1000) Digital Map Data, i.e. E00, DGN, DWG and DXF formats, each site polygon is linked to its corresponding record by Site ID. Additional information is stored at an add_<site>.csv file, which is linked to the concerned records using the Geo_Reference Number.

