



SURVEY DEPARTMENT

MINISTRY OF DEVELOPMENT

GEOSPATIAL MAPPING SECTION

GIS DATA DICTIONARY

This document provides a list of feature codes and the list is no means exhaustive and is subject to revision by the department.

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DOCUMENT AMENDMENT LOG

CHANGE / REVISION LOG

NO	DATE	FEATURE GROUP	FEATURE CODE				REVISION / CHANGE DETAIL
			L1	L2	L3	L4	
1.	15/02/2022	Land Use	10	00	00	00	This Feature Group is created for the Town & Country Planning Department (TCP) and is only used by TCP. This Feature Code will be moved to the end of the document to avoid confusion.
2.	15/02/2022	Land Use Zone	11	00	00	00	This Feature Group is created for the Town & Country Planning Department (TCP) and is only used by TCP. This Feature Code will be moved to the end of the document to avoid confusion.
3.	15/02/2022	Building – Permanent – Other Residential – Condominium	15	01	03	02	Spelling correction.
4.	15/02/2022	Building – Commercial – Hotel	15	02	16	00	Removed feature code for 'Hotel' as it duplicates with Land Use – Residential – Special Housing – Hotel.
5.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Technical College	15	02	16	00	Revised to include “/ Polytechnic”.
6.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Health Facilities – Rehabilitation	15	04	02	04	Spelling correction.
7.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Sport & Leisure – Football Field	15	04	06	10	Initially “Football Pitch”, revised to “Football Field”.
8.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Sport & Leisure – Tennis Court	15	04	06	12	Feature code correction. Initially, L1- 10, revised to L1- 15.
9.	15/02/2022	Building – Welfare, Community & Leisure Facilities –	15	04	06	13	Feature code correction. Initially, L1- 10, revised to L1- 15.

NO	DATE	FEATURE GROUP	FEATURE CODE				REVISION / CHANGE DETAIL
			L1	L2	L3	L4	
		Sport & Leisure – Basketball Court					
10.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Sport & Leisure – Futsal Court	15	04	06	14	Feature code correction. Initially, L1- 10, revised to L1- 15.
11.	15/02/2022	Vegetation	25	08	00	00	Revised from “Natural Vegetation & Vacant”
12.	15/02/2022	Road – Bridge – Titian / Footbridge	40	14	03	00	Malay translation for “Footbridge” – “Titian”
13.	15/02/2022	Road – Bridge – Jejantas – Pedestrian Bridge	40	14	05	00	Spelling correction.
14.	15/02/2022	Road – Transportation Points – Kilometer Post	40	02	08	00	Moved from Miscellaneous Features – Kilometer Post (93 04 06 00)
15.	15/02/2022	Soil – Cobbles	50	10	00	00	Spelling correction.
16.	15/02/2022	Utilities – Fire Hydrant	71	04	00	00	Feature representation correction. Initially, N N N. Revised to X X X.
17.	15/02/2022	Utilities – Reservoir – Water Dam Area	71	06	05	00	Feature representation correction for Map Scale 10K. Revised to PL from P.
18.	15/02/2022	Manhole	74	05	00	00	Revised from “Main Hole” to “Manhole”.
19.	15/02/2022	Electrical – Signal Light / Beacon (Land)	75	07	00	00	Revised to include “/Beacon”.
20.	15/02/2022	Electrical – Signal Light / Beacon (River / Sea)	75	12	00	00	Revised to include “/Beacon”.
21.	15/02/2022	Electrical – Cable Duct (Ducting)	75	18	00	00	Moved from Miscellaneous Features – Cable Duct (Ducting) (92 09 00 00)
22.	15/02/2022	Electrical – Cable Duct (Ducting) – Electrical wire	75	18	01	00	Moved from Miscellaneous Features – Cable Duct (Ducting) – Electrical wire (92 09 01 00)
23.	15/02/2022	Electrical – Cable Duct (Ducting) – Telephone wire	75	18	02	00	Moved from Miscellaneous Features – Cable Duct (Ducting) – Telephone wire (92 09 02 00)

NO	DATE	FEATURE GROUP	FEATURE CODE				REVISION / CHANGE DETAIL
			L1	L2	L3	L4	
24.	15/02/2022	Oil & Gas – Nodding Donkey	76	01	10	00	Spelling correction.
25.	15/02/2022	Oil & Gas – Oil Derrick	76	01	12	00	Spelling correction.
26.	15/02/2022	Hydrology – Natural – Mud – Coastal Sand (Pasir Laut)	80	01	10	00	Terms revised from “Pasir Laut (Coastal Sand)”.
27.	15/02/2022	Hydrology – Natural – Mud – Inland Sand (Pasir Darat)	80	01	11	00	Terms revised from “Pasir (Inland Sand)”.
28.	15/02/2022	Hydrology – Natural – Shoreline	80	01	12	00	Terms revised from “Shoreline (Definite)”.
29.	15/02/2022	Hydrology – Natural Rapids (Jeram)	80	01	13	00	Revised to include “(Jeram)”.
30.	15/02/2022	Hydrology – Manmade – Golf Bunker	80	02	03	00	Revised to include “Golf”.
31.	15/02/2022	Hydrology – Manmade – Drainage – Inlet Chamber	80	02	04	20	Moved from Miscellaneous Features – Inlet Chamber (92 08 00 00)
32.	15/02/2022	Hydrology – Manmade – Swimming Pool	80	02	10	00	Revised to include “Swimming”.
33.	15/02/2022	Miscellaneous Features – Monument – Dome	91	02	00	00	Moved from Miscellaneous Features – Inlet Chamber (93 03 05 01)
34.	15/02/2022	Miscellaneous Features – Cement / Concrete Compound	92	03	00	00	Terms revised from “Cement compound / Cement / Court”.
35.	15/02/2022	Miscellaneous Features – Label / Papan Tanda	93	02	00	00	Revised to include “Papan”.

ADDED FEATURE CODES LOG

NO	DATE	FEATURE GROUP	FEATURE CODE			
			L1	L2	L3	L4
1.	15/02/2022	Building – Commercial – Freight Forwarder / Courier Service	15	02	17	00
2.	15/02/2022	Building –Industrial – General Industry – Recycling Centre	15	03	04	12
3.	15/02/2022	Building –Industrial – General Industry – Scrap Yard	15	03	04	13
4.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Education Facility – Sixth Form Centre	15	04	01	05
5.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Education Facility – Child Development / Learning Centre	15	04	01	12
6.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Health Facilities – National Isolation Centre (NIC)	15	04	02	06
7.	15/02/2022	Building – Welfare, Community & Leisure Facilities – Health Facilities – National Isolation Centre (NIC) * Temporary	15	04	02	07
8.	15/02/2022	Boundaries – Administrative Unit – Heart of Borneo	20	01	10	00
9.	15/02/2022	Cadastre – Misc	21	05	00	00
10.	15/02/2022	Cadastre – Misc – Cadastre Misc Poly	21	05	01	00
11.	15/02/2022	Cadastre – Misc – Cadastre Misc Line	21	05	02	00
12.	15/02/2022	Cadastre – Misc – Cadastre Misc Point	21	05	03	00
13.	15/02/2022	Relief – Contour – LiDAR Generated	31	01	03	00
14.	15/02/2022	Relief – Spot Height (Ground Control Point) – LiDAR Generated	31	02	03	00
15.	15/02/2022	Road – Footpath / Track – Cycling Track	40	08	06	00

REMOVED FEATURE CODES LOG

NO	DATE	FEATURE GROUP	FEATURE CODE				REVISION / CHANGE DETAIL
			L1	L2	L3	L4	
1.	15/02/2022	Boundaries – Administrative Unit – Negeri	20	01	01	03	Not applicable for Brunei Darussalam.
2.	15/02/2022	Boundaries – Administrative Unit – Division	20	01	01	04	Not applicable for Brunei Darussalam.
3.	15/02/2022	Boundaries – Administrative Unit – District – Sub District	20	01	02	01	Not applicable for Brunei Darussalam.
4.	15/02/2022	Hydrology – Natural – River - Definite	80	01	01	03	Not needed.
5.	15/02/2022	Hydrology – Natural – Lake – Indefinite	80	01	05	01	Not needed.
6.	15/02/2022	Miscellaneous Features – Fence / wall	92	05	00	00	Feature code for “Fence” 92 04 00 00.
7.	15/02/2022	Miscellaneous Features – Monument	93	03	05	00	Duplication of 91 02 00 00.
8.	15/02/2022	Telecom – Manhole	74	12	00	00	Duplication of 74 05 00 00.

INTRODUCTION TO DATA DICTIONARY

What is a Data Dictionary?

A Data Dictionary is a feature coding system for displaying all spatial feature in digital mapping. It is needed for standardising the naming convention of features.

Feature Coding System

A four (4) level feature code satisfies a wide range of users of digital map data ranging from the generalised to the most detailed.

The four (4) levels of code allows four levels of details to be associated or related to the feature and hence allow at least as many ways of manipulating, displaying or analysing it.

Depending on the level of detail required or permitted, the exchange of digital data can be controlled between departments or organisations.

Each of the levels are represented by two (2) digits. The first level, L1 ranges from 10 to 99 (90 possibilities); while the following three levels – L2, L3 and L4 range from 00 to 99 (100 possibilities each). This allows the feature codes to expand and hence prevent a situation where feature codes are exhausted or run out of for new feature types. New features are bound to be developed as needs vary as a result of new developments.

Structure of Feature Codes

The items or columns called L1, L2, L3 and L4 sequentially will be defined for each feature attribute table.

In ArcGIS, these items will be defined as follows:

ITEM NAME	L1	L2	L3	L4
WIDTH	2	2	2	2
OUTPUT WIDTH	2	2	2	2
TYPE	Character (C)	Character (C)	Character (C)	Character (C)
VALUES	1 – 9 0 – 9	0 – 9 0 – 9	0 – 9 0 – 9	0 – 9 0 – 9

These four items combined or concatenated will be redefined in the database as 'F_CODE' representing the feature code for the individual feature. The definition for this feature is as follows:

ITEM NAME	F_CODE
WIDTH	8
OUTPUT WIDTH	8
TYPE	I (Integer)
STARTING COLUMN	The first column occupied by L1

The feature codes assigned are independent of the feature type used to represent a feature. A particular feature may have different representations at different scales.

Each level of the feature code represents a level of hierarchy with L1 being the highest and most general and L4 being the lowest and more detailed.

Map Scale		Feature Type	
1K	1:1,000	P	Polygon
10K	1:10,000	X	Point
50K	1:50,000	L	Polyline

FEATURE GROUP			MAP SCALE			FEATURE CODE				
			1K	10K	50K		L1	L2	L3	L4
BUILDING [15]			P	PX	PX		15	*	*	*
Permanent			P	P	PX		15	00	00	00
	Residential		P	P	PX		15	01	00	00
		Damaged by fire	P	P	PX		15	01	00	01
		Collapse	P	P	PX		15	01	00	02
		Damaged	P	P	PX		15	01	00	03
		Derelict	P	P	PX		15	01	00	04
		Vacant	P	P	PX		15	01	00	05
		Under Construction	P	P	PX		15	01	00	06
		Temporary	P	P	PX		15	01	00	07
		Demolished	P	P	PX		15	01	00	08
	General Housing		P	P	PX		15	01	01	00
		Low	P	P	PX		15	01	01	01
		Medium	P	P	PX		15	01	01	02
		High	P	P	PX		15	01	01	03
	Special Housing		P	PX	PX		15	01	02	00
		Hotel	P	PX	PX		15	01	02	01
		Service Apartments	P	PX	PX		15	01	02	02
		Hostels	P	PX	PX		15	01	02	03
		Palace	P	PX	PX		15	01	02	04
		Rest House	P	PX	PX		15	01	02	05
		Homestay	P	PX	PX		15	01	02	06
	Other Residential		P	PX	PX		15	01	03	00
		Residential Institution	P	PX	PX		15	01	03	01
		Condominium	P	PX	PX		15	01	03	02
		Government Accommodation (Flats)	P	PX	PX		15	01	03	03
		Longhouse / Rumah Panjang	P	PX	PX		15	01	03	04
		Detached House	P	PX	PX		15	01	03	05
		Semi Detached House	P	PX	PX		15	01	03	06
		Terrace	P	PX	PX		15	01	03	07
		Labour Quarters	P	PX	PX		15	01	03	08
		Private Accommodation (Flats)	P	PX	PX		15	01	03	09
		Government Housing	P	PX	PX		15	01	03	10
		Private Housing	P	PX	PX		15	01	03	11
Commercial			P	PX	PX		15	02	00	00
	Retail Shop & Services		P	PX	PX		15	02	01	00
		Supermarket	P	PX	PX		15	02	01	01
		Department Store	P	PX	PX		15	02	01	02
		Individual Shop	P	PX	PX		15	02	01	03
		Hairdressers	P	PX	PX		15	02	01	04
		Travel Agent	P	PX	PX		15	02	01	05
		Dry Cleaner	P	PX	PX		15	02	01	06
		Tailor	P	PX	PX		15	02	01	07
		Bakery	P	PX	PX		15	02	01	08
		Shophouses	P	PX	PX		15	02	01	09
	Restaurant									
		Coffee Shop	P	PX	PX		15	02	02	01
		Fast Food Store	P	PX	PX		15	02	02	02

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
BUILDING [15]			P	PX	PX	15	*	*	*
	Canteen / Tuckshop / Dining Hall		P	PX	PX	15	02	02	03
	Food Court		P	PX	PX	15	02	02	04
	Market / Hawker Stall		P	PX	PX	15	02	03	00
	Retail Showroom		P	PX	PX	15	02	04	00
	Furniture		P	PX	PX	15	02	04	01
	Carpet		P	PX	PX	15	02	04	02
	Tiles		P	PX	PX	15	02	04	03
	Cars		P	PX	PX	15	02	04	04
	Offices		P	PX	PX	15	02	05	00
	Professional Services		P	PX	PX	15	02	05	01
	Insurance Agent		P	PX	PX	15	02	05	02
	Banks		P	PX	PX	15	02	06	00
	ATM		P	PX	X	15	02	06	01
	Medical Specialist Room		P	P	P	15	02	07	00
	Dentist		P	P	P	15	02	07	01
	Doctor		P	P	P	15	02	07	02
	Optician		P	P	P	15	02	07	03
	Private Tuition Centre		P	PX	PX	15	02	08	00
	Computer School		P	PX	PX	15	02	08	01
	Music School		P	PX	PX	15	02	08	02
	Leisure Activities		P	PX	PX	15	02	09	00
	Fitness Centre		P	PX	PX	15	02	09	01
	Snooker Hall		P	PX	PX	15	02	09	02
	Amusement Centre		P	PX	PX	15	02	09	03
	Recreation Centre		P	PX	PX	15	02	09	04
	Sport Facilities		P	PX	PX	15	02	09	05
	Petrol Filling Station		P	PX	PX	15	02	10	00
	Plant Nursery		P	PX	PX	15	02	11	00
	Public Entertainment		P	PX	PX	15	02	12	00
	Multi-Storey Office		P	PX	PX	15	02	13	00
	Mixed Use		P	PX	PX	15	02	14	00
	50 % Commercial 50% Residential		P	PX	PX	15	02	14	01
	25 % Commercial 75% Residential		P	PX	PX	15	02	14	02
	75 % Commercial 25% Residential		P	PX	PX	15	02	14	03
	Garbage Disposal		P	PX	PX	15	02	15	00
	Freight Forwarder / Courier Service		P	PX	X	15	02	17	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
BUILDING [15]		P	PX	PX	15	*	*	*
Industrial		P	PX	PX	15	03	00	00
	Wholesale / Storage	P	PX	PX	15	03	01	00
	Wholesale / Retail Warehouse	P	PX	PX	15	03	01	01
	Storage Yard	P	PX	PX	15	03	01	02
	Workshop	P	PX	PX	15	03	02	00
	Car Repair / Servicing	P	PX	PX	15	03	02	01
	Tyre Fitters	P	PX	PX	15	03	02	02
	Car Wash	P	PX	PX	15	03	02	03
	Furniture Making	P	PX	PX	15	03	02	04
	Printing Shop	P	PX	PX	15	03	02	05
	Metalworks Workshop	P	PX	PX	15	03	02	06
	Light Industry	P	PX	PX	15	03	03	00
	Motor Vehicle Dealer	P	PX	PX	15	03	03	01
	General Industry	P	PX	PX	15	03	04	00
	Bakery / Food Preparation	P	PX	PX	15	03	04	01
	Garment Manufacturer	P	PX	PX	15	03	04	02
	Bottling Plant / Food Processing	P	PX	PX	15	03	04	03
	Sawmill / Timber Processing	P	PX	PX	15	03	04	04
	Brickwork / Brick Kiln	P	PX	PX	15	03	04	05
	BSP Industrial Area	P	PX	PX	15	03	04	06
	Oil and Gas / Refinery	P	PX	PX	15	03	04	07
	Industrial Processing	P	PX	PX	15	03	04	08
	Factory	P	PX	PX	15	03	04	09
	Construction Sites	P	PX	PX	15	03	04	10
	Timber Industries	P	PX	PX	15	03	04	11
	Recycling Centre	P	PX	PX	15	03	04	12
	Scrap Yard	P	PX	PX	15	03	04	13
	Quarry	P	PX	PX	15	03	05	00
	Sand Mining	P	PX	PX	15	03	05	01
	Coarse Aggregate Extraction	P	PX	PX	15	03	05	02
	Aggregate Washing	P	PX	PX	15	03	05	03
Welfare, Community & Leisure Facilities		P	PX	PX	15	04	00	00
	Education facility	P	PX	PX	15	04	01	00
	Kindergarten	P	PX	PX	15	04	01	01
	Primary School	P	PX	PX	15	04	01	02
	Secondary School	P	PX	PX	15	04	01	03
	Technical College / Polytechnic	P	PX	PX	15	04	01	04
	Sixth Form Centre	P	PX	PX	15	04	01	05
	Religious School	P	PX	PX	15	04	01	06
	Institute	P	PX	PX	15	04	01	07
	University	P	PX	PX	15	04	01	08
	Other Education Establishment	P	PX	PX	15	04	01	09
	Day Care Centre	P	PX	PX	15	04	01	10
	Training Centre	P	PX	PX	15	04	01	11
	Child Development / Learning Centre	P	PX	PX	15	04	01	12

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
BUILDING [15]			P	PX	PX	15	*	*	*
	Health Facilities		P	PX	PX	15	04	02	00
		Clinic	P	PX	PX	15	04	02	01
		Health Centre	P	PX	PX	15	04	02	02
		Hospital	P	PX	PX	15	04	02	03
		Rehabilitation Centre	P	PX	PX	15	04	02	04
		Private Health Clinic	P	PX	PX	15	04	02	05
		National Isolation Centre (NIC)	P	PX	PX	15	04	02	06
		National Isolation Centre (NIC) *Temporary	P	PX	PX	15	04	02	07
	Post Office		P	PX	PX	15	04	03	00
	Community Centre		P	PX	PX	15	04	04	00
		Balai Raya	P	PX	PX	15	04	04	01
		Community Hall	P	PX	PX	15	04	04	02
	Cultural Facilities		P	PX	PX	15	04	05	00
		Art Gallery	P	PX	PX	15	04	05	01
		Library	P	PX	PX	15	04	05	02
		Museum	P	PX	PX	15	04	05	03
		Theatre	P	PX	PX	15	04	05	04
		Cinema	P	PX	PX	15	04	05	05
		Exhibition Hall	P	PX	PX	15	04	05	06
		Concert Hall	P	PX	PX	15	04	05	07
		Place for moon sighting / Observatory Tower	P	PX	PX	15	04	05	08
	Sport & Leisure		P	PX	PX	15	04	06	00
		Stadium	P	PX	PX	15	04	06	01
		Gymnasium	P	PX	PX	15	04	06	02
		Swimming Pool	P	PX	PX	15	04	06	03
		Bowling Alley	P	PX	PX	15	04	06	04
		Sports Centre Level 4	P	PX	PX	15	04	06	05
		Sports Centre Level 3	P	PX	PX	15	04	06	06
		Athletic Track	P	PX	PX	15	04	06	07
		Golf Clubhouse	P	PX	PX	15	04	06	08
		Grandstand	P	PX	PX	15	04	06	09
		Football Field	P	PX	PX	15	04	06	10
		Windsurfing Clubhouse	P	PX	PX	15	04	06	11
		Tennis Court	P	PX	PX	15	04	06	12
		Basketball Court	P	PX	PX	15	04	06	13
		Futsal Court	P	PX	PX	15	04	06	14
	Places of worship		P	PX	PX	15	04	07	00
		Mosque	P	PX	PX	15	04	07	01
		Surau	P	PX	PX	15	04	07	02
		Kuil / Hindu Temple	P	PX	PX	15	04	07	03
		Church	P	PX	PX	15	04	07	04
		Buddhist Temple	P	PX	PX	15	04	07	05
		Others	P	PX	PX	15	04	07	06
	Cemetery		P	P	PX	15	04	08	00
		Muslim	P	P	PX	15	04	08	01
		Buddha	P	P	PX	15	04	05	02

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
BUILDING [15]			P	PX	PX	15	*	*	*
	Christian		P	P	PX	15	04	08	03
	Hindu		P	P	PX	15	04	08	04
	International		P	P	PX	15	04	08	05
	Archeological Feature		P	P	PX	15	04	08	06
	Makam		P	P	PX	15	04	08	07
	Iban		P	P	PX	15	04	08	08
	Dusun		P	P	PX	15	04	08	09
	Crematorium		P	PX	PX	15	04	09	00
Open Space			P	PX	PX	15	05	00	00
	Recreation		P	PX	PX	15	05	01	00
	Playing Field		P	PX	PX	15	05	01	01
	Park		P	PX	PX	15	05	01	02
	Golf Course		P	PX	PX	15	05	01	03
	Children's Play area / Playground		P	PX	PX	15	05	01	04
	Marina		P	PX	PX	15	05	01	05
	Amenity		P	PX	PX	15	05	02	00
	Private Garden		P	PX	PX	15	05	02	01
	Soft Landscape Centre		P	PX	PX	15	05	02	02
	Amenity Centre		P	PX	PX	15	05	02	03
	Open Stage		P	PX	PX	15	05	02	04
	Cement		P	PX	PX	15	05	03	00
Government use			P	PX	PX	15	06	00	00
	Government Office		P	PX	PX	15	06	01	00
	District Office		P	PX	PX	15	06	01	01
	Government Depot		P	PX	PX	15	06	02	00
	Fire Station		P	PX	PX	15	06	03	00
	Police Station		P	PX	PX	15	06	04	00
	Military Security		P	PX	PX	15	06	05	00
	Palace / Istana		P	PX	PX	15	06	05	01
	Prison		P	PX	PX	15	06	05	02
	Firing Range		P	PX	PX	15	06	05	03
	Military Buildings		P	PX	PX	15	06	05	04
	Stesen Uji Kaji Pertanian		P	PX	PX	15	06	06	00
	Stesen Kastam		P	PX	PX	15	06	07	00
	Barracks		P	PX	PX	15	06	08	00
	Public Toilet (Tandas Awam)		P	PX	PX	15	06	09	00
	Guard House (Police, Security, Parking, etc)		P	PX	PX	15	06	10	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
BUILDING [15]		P	PX	PX	15	*	*	*
	Store	P	PX	PX	15	06	11	00
	Stesen Imigresen	P	PX	PX	15	16	12	00
	Tower (Military, Police, Prison, Fire Station)	P	PX	PX	15	16	13	00
Road & Utilities		P	PX	LX	15	07	00	00
	Transportation	P	PX	PX	15	07	02	00
	Surface Car Park	P	PX	PX	15	07	02	01
	Multi-Storey Car Park	P	PX	PX	15	07	02	02
	Other Transport Uses	P	PX	PX	15	07	03	00
	Bus Station	P	PX		15	07	03	01
	Taxi Rank	P	PX		15	07	03	02
	Jetty	P	PX	X	15	07	03	03
	International Airport	P	PX	P	15	07	03	06
	Terminal	P	P	P	15	07	03	10
	Airport Hangar	P	P	P	15	07	03	11
	Roadside Bus Stop	P	PX		15	07	03	12
	Airport Terminal	P	P	P	15	07	03	13
	Ferry Terminal	P	P	P	15	07	03	14
	Port Terminal	P	P	P	15	07	03	15
	Garage	P	PX		15	07	03	16
	Walkway (roof)	P	P		15	07	03	17
	Helipad	P	PX	X	15	07	03	18
	Utilities	P	PX	PX	15	07	04	00
	Power Station	P	PX	PX	15	07	04	01
	Power Substation	P	PX	X	15	07	04	02
	Sewerage Treatment / Oxidation Pond	P	PX	PX	15	07	04	03
	Reservoir	P	PX	PX	15	07	04	04
	Major Drain / Main Drain	P	PL	X	15	07	04	05
	Telephone Exchange	P	PX	X	15	07	04	06
	Water Tank	P	PX	X	15	07	04	07
	Radio Mast	P	X	X	15	07	04	08
	Transmitter Tower	P	X	X	15	07	04	09
	Lighthouse	P	X	X	15	07	04	10
	Power Transformer	P	X	X	15	07	04	11
	Power transmission Pylons	P	X	X	15	07	04	13
	Satellite Station	P	X	X	15	07	04	14
	Service Reservoir	P	X	X	15	07	04	15
Imaginary line		L	L	L	15	11	00	00
Temporary		P	PX	PX	16	*	*	*

FEATURE GROUP			MAP SCALE			FEATURE CODE				
			1K	10K	50K		L1	L2	L3	L4
BOUNDARIES [20]			P	PL	PL		20	*	*	*
Administrative Unit			P	PL	PL		20	01	00	00
	International boundary on land		P	PL	PL		20	01	01	00
		Defined	P	PL	PL		20	01	01	01
		Undefined	P	PL	PL		20	01	01	02
	District		P	PL	PL		20	01	02	00
	Mukim		P	PL	PL		20	01	03	00
		Proposed Mukim	P	PL	PL		20	01	03	01
	Kampung		P	PL	PL		20	01	04	00
		Proposed Kampung	P	PL	PL		20	01	04	01
	Municipal		P	PL	PL		20	01	05	00
		Old Municipal	P	PL	PL		20	01	05	01
		New Municipal	P	PL	PL		20	01	05	02
	Forest Reserve		P	PL	PL		20	01	06	00
	Danger Area		P	PL	PL		20	01	07	00
	BSP Concession Area		P	PL	PL		20	01	08	00
	BSP Occupied Area		P	PL	PL		20	01	09	00
	Heart of Borneo		P	PL	PL		20	01	10	00
Planning Unit			P	P	P		20	02	00	00
	DCCA		P	P	P		20	02	01	00
	Local Plan		P	P	P		20	02	02	00
	Planning Scheme		P	P	P		20	02	03	00
Project							20	03	00	00
	JUA						20	03	01	00
		JUA Boundary Poly	P	P	P		20	03	01	01
		JUA Boundary Line	L	L	L		20	03	01	02
		JUA Boundary Station	X	X	X		20	03	01	03
	Kg Ayer						20	03	02	00
		Kg Ayer Grid Poly	P	P	P		20	03	02	01
		Kg Ayer Grid Line	L	L	L		20	03	02	02
		Kg Ayer Grid Point	X	X	X		20	03	02	03
	House Numbering		P	PL	PL		20	03	03	00
	International Boundary on Water		P	PL	PL		20	04	00	00
		Economic Exclusive Zone (EEZ)	P	P	PL		20	04	01	00
		Shoreline	L	L	L		20	04	01	02
		Order in Council (OIC)	L	LX	X		20	04	01	03
	Continental Shelf		L	L	L		20	04	02	00
		International Continental Shelf	L	L	L		20	04	02	01

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
BOUNDARIES [20]			P	PL	PL	20	*	*	*
		Territorial Sea	L	L	L	20	04	03	00
		200 Nautical Miles (nM or M)	PL	PL	L	20	04	03	01
		100 Nautical Miles (nM or M)	PL	PL	L	20	04	03	02
		12 Nautical Miles (nM or M)	L	L	L	20	04	03	03
		Reef	P	PL	PL	20	04	04	00
		Annotation	X	X	X	20	04	05	00

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
CADASTRE [21]			P	P	P	21	*	*	*
	LOT		P	P	P	21	01	00	00
		Surveyed	P	P	P	21	01	01	00
		Transformed	P	P	P	21	01	02	00
	TOL		P	P	P	21	00	00	00
		Surveyed	P	P	P	21	02	01	00
		Transformed	P	P	P	21	02	02	00
		Unsurveyed	P	P	P	21	02	03	00
	LA		P	P	P	21	03	00	00
		Surveyed	P	P	P	21	03	01	00
		Transformed	P	P	P	21	03	02	00
	Gazette		P	P	P	21	04	00	00
		Surveyed	P	P	P	21	04	01	00
		Transformed	P	P	P	21	04	02	00
	Misc		P	P	P	21	05	00	00
		Cadastre Misc Poly	P	P	P	21	05	01	00
		Cadastre Misc Line	PL	L	L	21	05	02	00
		Cadastre Misc Point	X	X	X	21	05	03	00
Reserves			P	P	P	22	00	00	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
CONTROL [24]		X	X	X	24	*	*	*
	Triangulation Station	X	X	X	24	01	00	00
	Traverse Point	X	X	X	24	02	00	00
	Standard	X	X	X	24	02	01	00
	First Class				24	02	02	00
	Bench Mark	X	X	X	24	03	00	00
	International Boundary Mark	X	X	X	24	04	00	00
	GPS Station	X	X	X	24	05	00	00
	RTK Station	X	X	X	24	06	00	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
VEGETATION [25]		P	P	P	25	08	*	*
	Natural Vegetation	P	P	P	25	08	01	00
	Forest (Hutan tebal / Hutan rimba)	P	P	P	25	08	01	01
	Mangrove	P	P	P	25	08	01	02
	Nipah	P	P	P	25	08	01	03
	Secondary Forest (Hutan Rendah)	P	P	P	25	08	01	04
	Swamp	P	P	P	25	08	01	05
	Ridge Conservation	P	P	P	25	08	01	06
	Rubber	P	P	P	25	08	01	07
	Grassland	P	P	P	25	08	01	08
	Plain Forest	P	P	P	25	08	01	09
	Cultivation	P	P	P	25	08	01	10
	Belukar	P	P	P	25	08	01	11
	Small Bushes / Scrub Forest	P	P	P	25	08	01	12
	Sundry Tree Cultivation	P	P	P	25	08	01	13
	Sundry Non-Tree	P	P	P	25	08	01	14
	Primary Mixed Dipterocarp Forest	P	P	P	25	08	01	15
	Secondary / logged Mixed Dipterocarp Forest	P	P	P	25	08	01	16
	Karangas (Tropical Heath Forest)	P	P	P	25	08	01	17
	Peat Swamp Forest	P	P	P	25	08	01	18
	Coastal Forest	P	P	P	25	08	01	19
	Montane	P	P	P	25	08	01	20
	Cleared Ground	P	P	P	25	08	01	21
	Natural Reserve	P	P	P	25	08	03	00
	White Sands Nature Reserve	P	P	P	25	08	03	01
	Vacant	P	P	P	25	08	04	00
	Construction Site	P	P	P	25	08	04	01
	Stateland	P	P	P	25	08	04	02
	Wasteland	P	P	P	25	08	04	03
	Agriculture	P	P	P	25	09	00	00
	Plantation	P	P	P	25	09	01	00
	Paddy Field	P	P	P	25	09	02	00
	Wet Paddy	P	P	P	25	09	02	01
	Dry Paddy	P	P	P	25	09	02	02
	Animal Breeding Farm / Poultry Farming	P	P	P	25	09	03	00
	Market Gardening / Orchards	P	PX	PX	25	09	04	00
	Livestock Grazing	P	PX	PX	25	09	05	00
	Abattoir	P	PX	PX	25	09	06	00
	Aquaculture	P	P	PX	25	10	00	00
	Fish Pond	P	P	PX	25	10	01	00
	Fish Breeding Pond	P	PX	PX	25	10	02	00
	Prawn Breeding Pond	P	PX	PX	25	10	03	00

FEATURE GROUP			MAP SCALE			FEATURE CODE				
			1K	10K	50K		L1	L2	L3	L4
RELIEF [31]			L	L	L		31	*	*	*
Contour			L	L	L		31	01	00	00
	Photogrammetric		L	L	L		31	01	01	00
		Photogrammetric Imperial	L	L	L		31	01	01	01
		Photogrammetric Major (Contour interval at 50m)	L	L	L		31	01	01	02
	Surveyed		L	L	L		31	01	02	00
	LiDAR Generated		L	L	L		31	01	03	00
Spot Height (Ground Control Point)			X	X	X		31	02	00	00
	Photogrammetric		X	X	X		31	02	01	00
	Surveyed (Imperial)		X	X	X		31	02	02	00
	LiDAR Generated		X	X	X		31	02	03	00
Height Control			X	X	X		31	03	00	00
Cliff			L	L	L		31	10	00	00
Cutting			L	L	L		31	11	00	00
Terrace			L	L	L		31	12	00	00
Groyne			L	L	L		31	13	00	00
Slip			L	L	L		31	14	00	00
Escarpment			L	L	L		31	15	00	00
Terrain			L	L	L		31	16	00	00
	Embankment		L	L	L		31	16	01	00
		Top	L	L	L		31	16	01	01
		Bottom	L	L	L		31	16	01	02

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
ROAD [40]		PL	L	L	40	*	*	*
Interstate Highway		PL	L	L	40	01	00	00
Highway		PL	L	L	40	02	00	00
	Sealed Dual Carriageway	PL	L	L	40	02	01	00
	Sealed (2 way)	PL	L	L	40	02	02	00
	Sealed (1 way)	PL	L	L	40	02	03	00
	Unsealed (2 way)	PL	L	L	40	02	04	00
	Unsealed (1 way)	PL	L	L	40	02	05	00
	Highway Verge	PL	L	L	40	02	06	00
Major Road		PL	L	L	40	03	00	00
Secondary Road		PL	L	L	40	04	00	00
Minor Road		PL	L	L	40	05	00	00
	Motor Track	PL	L	L	40	05	01	00
Access Road		PL	L	L	40	06	00	00
	Access Road less than 10M (Sealed)	PL	L	L	40	06	01	00
	Access Road less than 10M (Unsealed)	PL	L	L	40	06	02	00
	Access Road less than 20M (Sealed)	PL	L	L	40	06	03	00
	Access Road less than 20M (Unsealed)	PL	L	L	40	06	04	00
Rural Road		PL	L	L	40	07	00	00
	Sealed	PL	L	L	40	07	01	00
	Unsealed	PL	L	L	40	07	02	00
Footpath / Track		PL	P	L	40	08	00	00
	Forest Trails	PL	L	L	40	08	01	00
	Nature Walks	PL	L	L	40	08	02	00
	Golf Track	PL	L	L	40	08	03	00
	Horse Riding Track	PL	L	L	40	08	04	00
	Athletic Track	PL	L	L	40	08	05	00
	Cycling Track	PL	L	L	40	08	06	00
Road shoulder		PL	L		40	09	00	00
	Center Median	PL	L		40	09	01	00
	Road Hump	PL	L		40	09	02	00
Other Road		PL	L	L	40	10	00	00
	PL	L	L	L	40	10	01	00
Road under construction		PL	L	L	40	11	00	00
Flyover		PL	L	L	40	12	00	00
	Level 1	PL	L	L	40	12	01	00
Railway		PL	L	L	40	13	00	00
	Light	PL	L	L	40	13	01	00
	Heavy	PL	L	L	40	13	02	00
Bridge		P	L	L	40	14	00	00
	Steel	P	L	L	40	14	01	00

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
ROAD [40]			PL	L	L	40	*	*	*
	Wooden		P	L	L	40	14	02	00
	Titian / Footbridge		P	L	L	40	14	03	00
	Permanent		P	L	L	40	14	04	00
	Jejantas / Pedestrian Bridge		P	L	L	40	14	05	00
	Jetty		P	L	L	40	14	06	00
Airport runway			P	PL	L	40	15	00	00
Tunnel			P	L	L	40	16	00	00
Roundabout			P	L	L	40	17	00	00
Zebra Crossing			P	L	L	40	18	00	00
Road Maintenance Zones			P	P	P	40	19	00	00
Facility Boundary			P	P	PX	40	20	00	00
Transportation Points			X	X	X	40	20	00	00
	Intersection Points		X	X		40	20	01	00
	Route Callibration Points		X	X		40	20	02	00
	Tunnel Points		X	X		40	20	03	00
	Bridge Points		X	X		40	20	04	00
	Sign Gantries		X	X		40	20	05	00
	Temp Traffic Works		X	X		40	20	06	00
	U turn		X	X		40	20	07	00
	Kilometer Post		X	X	X	40	20	08	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
SOIL [50]		P	P	P	50	*	*	*
	Clay	P	P	P	50	01	00	00
	Sand	P	P	P	50	02	00	00
	Silt	P	P	P	50	03	00	00
	Loam	P	P	P	50	04	00	00
	Peat	P	P	P	50	05	00	00
	Mud	P	P	P	50	06	00	00
	Stones	P	P	P	50	07	00	00
	Gravel	P	P	P	50	08	00	00
	Pebbles	P	P	P	50	09	00	00
	Cobbles	P	P	P	50	10	00	00
	Shells	P	P	P	50	11	00	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
MINERAL [55]		P	P	P	55	*	*	*
	Gravel	P	P	P	55	01	00	00
	Silica Sand	P	P	P	55	02	00	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
GEOLOGY [60]		PL	PL	PL	60	*	*	*
Formation		PL	PL	PL	60	01	00	00
	Recent	PL	PL	PL	60	01	01	00
	Pleistocene	PL	PL	PL	60	01	02	00
	Liang	PL	PL	PL	60	01	03	00
	Seria	PL	PL	PL	60	01	04	00
	Miri	PL	PL	PL	60	01	05	00
	Tukau	PL	PL	PL	60	01	06	00
	Lambir	PL	PL	PL	60	01	07	00
	Belait	PL	PL	PL	60	01	08	00
	Sibuti	PL	PL	PL	60	01	09	00
	Setap Shale	PL	PL	PL	60	01	10	00
	Meligan	PL	PL	PL	60	01	11	00
	Melinau Limestone	PL	PL	PL	60	01	12	00
	Kelalan	PL	PL	PL	60	01	13	00
	Mulu	PL	PL	PL	60	01	14	00
Fault		L	L	L	60	10	00	00
	Surface	L	L	L	60	10	01	00
	Below Alluvium	L	L	L	60	10	02	00
Strata		L	L	L	60	11	00	00
	Horizontal	L	L	L	60	11	01	00
	Vertical	L	L	L	60	11	02	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
UTILITIES [71]		L	L	L	71	*	*	*
Water Pipe		L	L	L	71	00	00	00
	Transmission Main	L	L	L	71	01	00	00
	Distribution Main	L	L	L	71	02	00	00
	Service Pipe	L	L		71	02	01	00
	Domestic Pipe	L	L		71	02	02	00
	Pipe feeder	L	L		71	02	03	00
	Pipe main	L	L		71	02	04	00
	Water Tap	X	X		71	02	05	00
	Water Meter	X	X		71	02	06	00
	Water Manhole	P	PX		71	02	07	00
	Water Pipeline Buried	L	L		71	02	08	00
	Water Pipeline Surface	L	L		71	02	09	00
	Water Pipeline Intrerpreted	L	L		71	02	10	00
	Water Connection Pipe	L	L		71	02	11	00
	Water Pressure Pipe	L	L		71	02	12	00
	Valve	X	X	X	71	03	00	00
	Air Valve	X			71	03	01	00
	Sluice Valve	X			71	03	02	00
	Gate Valve	X			71	03	03	00
	Butterfly Valve	X			71	03	04	00
	Throttle Valve	X			71	03	05	00
	Closed Valve	X			71	03	06	00
	Boundary Valve	X			71	03	07	00
	Pressure Reducing Valve	X			71	03	08	00
Fire Hydrant		X	X	X	71	04	00	00
	Pillar	X	X	X	71	04	01	00
	Numbered	X	X	X	71	04	02	00
	Washout	X	X	X	71	04	03	00
Pumping Station		X	X	X	71	05	00	00
Reservoir		P	P	P	71	06	00	00
	Ground	P	P	P	71	06	01	00
	Tower	P	PX	PX	71	06	02	00
	Water Chamber	P	P	PX	71	06	03	00
	Water Complex	P	P	PX	71	06	04	00
	Water Dam Area	P	PL	PX	71	06	05	00
	Water Pump Station	P	PX	PX	71	06	06	00
	Water Treatment Plant	P	P	PX	71	06	07	00
	Water Zone	P	P	P	71	06	08	00
	Water Zone OLD	P	P	P	71	06	09	00
Water Tank		P	X	X	71	07	00	00
Telemetry Control		P	X	X	71	08	00	00
Water Points		X	X		71	09	00	00
	Water Connection Point	X	X		71	09	01	00
	Water Connection Valve	X	X		71	09	02	00
	Water Flowmeter	X	X		71	09	03	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
UTILITIES [71]		L	L	L	71	*	*	*
	Water Hydrant	X	X		71	09	04	00
	Water Monitoring Point	X	X		71	09	05	00
	Water Reservoir	X	X		71	09	06	00
	Water Valve	X	X		71	09	07	00
	Water Pressure Pipe Vertices	X	X		71	09	08	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
SEWERAGE [72]		P	PX	P	72	*	*	*
	Treatment Plant	P	P	P	72	01	00	00
	Refuse Transfer Station	P	PX	PX	72	02	00	00
	Oxidation Pond	P	P	P	72	03	00	00
	Septic Tank	P	PX	X	72	04	00	00
	Pumping Station	P	PX	X	72	05	00	00
	Major Sewer Pump Station	P	PX	X	72	05	01	00
	Sub Sewer Pump Station	P	PX	X	72	05	02	00
	Pipe	L	L	L	72	06	00	00
	Major Collector	L	L	L	72	06	01	00
	Minor Collector	L	L	L	72	06	02	00
	Sewerage Pipeline Buried	L	L	L	72	06	03	00
	Sewerage Pipeline Surface	L	L	L	72	06	04	00
	Sewerage Pipeline Interpreted	L	L	L	72	06	05	00
	Connection Pipe	L	L	L	72	06	06	00
	Gravity Pipe	L	L	L	72	06	07	00
	Pressure Pipe	L	L	L	72	06	08	00
	Solid Waste							
	Manhole	X	X		72	07	00	00
	Sewer Valve	X	X		72	08	00	00
	Catchment	P	P	P	72	09	00	00
	Flowmeter	P	X	X	72	10	00	00
	Network Facility	X	X	X	72	11	00	00
	Refuse Bin	P	X	X	73	01	00	00
	Transfer Station	P	P	X	73	10	00	00
	Land Fill Site	P	P	P	73	20	00	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
TELECOM [74]					74	*	*	*
	Telephone Line	L	L	L	74	01	00	00
	Exchange	X	X	X	74	02	00	00
	Telephone Pole	X	X	X	74	03	00	00
	Satellite Station	X	X	X	74	04	00	00
	Manhole	PX	X	X	74	05	00	00
	Satellite Disc	X	X	X	74	06	00	00
	Radio Mast	X	X	X	74	07	00	00
	Telephone Booth	PX	X	X	74	08	00	00
	Transmitter Box	PX	X	X	74	09	00	00
	Transmitter tower	P	X	X	74	10	00	00
	Distribution Pillar	P	X	X	74	11	00	00
	Telecom Cable Buried	L	L	L	74	13	00	00
	Telecom Cable Surface	L	L	L	74	14	00	00
	Telecom Cable Interpreted	L	L	L	74	15	00	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
ELECTRICAL [75]					75	*	*	*
	Transmission Line	L	L	L	75	01	00	00
	Power Station	P	P	P	75	02	00	00
	Substation	P	P	P	75	03	00	00
	Lamp Post	X	X	X	75	04	00	00
	Pylon	X	X	X	75	05	00	00
	Electrical Post	X	X	X	75	06	00	00
	Signal Light / Beacon (Land)	X	X	X	75	07	00	00
	Electric Box	X	X	X	75	08	00	00
	Traffic Light	X	X	X	75	09	00	00
	Power Transmission Wayleave	X	X		75	10	00	00
	Power Station Pylon	P	P	X	75	11	00	00
	Signal Light / Beacon (River / Sea)	X	X	X	75	12	00	00
	Light House	P	X	X	75	13	00	00
	Service Pillar	P	X	X	75	14	00	00
	Electrical Cable Buried	L	L	L	75	15	00	00
	Electrical Cable Surface	L	L	L	75	16	00	00
	Electrical Cable Interpreted	L	L	L	75	17	00	00
	Cable Duct (Ducting)	L	L	L	75	18	00	00
	Electrical wire	L			75	18	01	00
	Telephone wire	L			75	18	02	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
OIL & GAS [76]		L	L	L	76	*	*	*
	Distribution	L	L	L	76	01	00	00
	Oil Pipe	L	L	L	76	01	01	00
	Gas Pipe	L	L	L	76	01	02	00
	Valve	X	X	X	76	01	03	00
	Gas Meter	X	X	X	76	01	04	00
	Gas Tank	P	X	X	76	01	05	00
	Petroleum Tank	P	X	X	76	01	06	00
	Palm oil Tank	P	X	X	76	01	07	00
	Storage Tank	P	X	X	76	01	08	00
	Platform	P	PX	X	76	01	09	00
	Nodding Donkey	P	X	X	76	01	10	00
	Oil Processing Plant	P	X	X	76	01	11	00
	Oil Derrick	X	X	X	76	01	12	00

FEATURE GROUP				MAP SCALE			FEATURE CODE				
				1K	10K	50K		L1	L2	L3	L4
HYDROLOGY [80]								80	*	*	*
Natural				P	PL	PL		80	01	00	00
	River			P	PL	P		80	01	01	00
		Single		L	L	L		80	01	01	01
		Double		P	PL	PL		80	01	01	02
		Indefinite		L	L	L		80	01	01	04
	Stream			L	L	L		80	01	02	00
	Tributary			L	L	L		80	01	03	00
	Estuary			L	L	L		80	01	04	00
	Lake			P	P	P		80	01	05	00
	Reservoir			P	P	P		80	01	06	00
	Waterfall			X	X	X		80	01	07	00
	Breakwater			P	PL	L		80	01	08	00
		Tidal		P	PL	L		80	01	08	01
		Non Tidal		P	PL	L		80	01	08	02
	Mud			P	P	P		80	01	09	00
	Coastal Sand (Pasir Laut)			P	P	P		80	01	10	00
	Inland Sand (Pasir Darat)			P	P	P		80	01	11	00
	Shoreline			L	L	L		80	01	12	00
		Shoreline (Indefinite)		L	L	L		80	01	12	01
		Shoreline (Definite)		L	L	L		80	01	12	02
	Rapids (Jeram)			L	L	X		80	01	13	00
	Batu Mandi (Rocks Awash)			P	PX	X		80	01	14	00
	Batu Karam (Submerged)			P	PX	X		80	01	15	00
	Batu Timbul (Rocks)			P	PX	X		80	01	16	00
	Flooded Area			P	PX	X		80	01	17	00
	Edge of Sea			P	P	P		80	01	18	00
		HWM (High Water Mark)		P	P	P		80	01	18	01
		LWM (Low Water Mark)		P	P	P		80	01	18	02
	Karangan			X	X	X		80	01	19	00
	Foreshore			P	P	P		80	01	20	00
	Hot Spring			P	P	P		80	01	21	00
	Batu Karang / Inter Tidal Reef			P	P	P		80	01	22	00
	Terumbu Karang / Reef			P	P	P		80	01	23	00
Manmade								80	02	00	00
	Canal			PL	L	L		80	02	01	00
	Fountain			P	X	X		80	02	02	00
	Golf Bunker			P	PX	X		80	02	03	00
	Drainage			PL	L	L		80	02	04	00
		Storm Water Drain		PL	PL	L		80	02	04	01
		Drain		P	L	L		80	02	04	02
		Double		P	PL	L		80	02	04	03
		Single		L	L	L		80	02	04	04
		Earth Drain (Double)		P	PL	L		80	02	04	05

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
HYDROLOGY [80]						80	*	*	*
	Earth Drain (Single)		L	L	L	80	02	04	06
	Culvert		P	L	L	80	02	04	07
	Manhole		P	PX		80	02	04	08
	Debris Screen		X	X		80	02	04	09
	Drop Structure		X	X		80	02	04	10
	Flap Valve		X	X		80	02	04	11
	Hydro Stations		X	X		80	02	04	12
	Outfall		L	L		80	02	04	13
	Closed Channels		L	L		80	02	04	14
	Open Channels		P	X		80	02	04	15
	Chamber		P	X		80	02	04	16
	Detention Area		P	P	PX	80	02	04	17
	Drainage Catchment		P	P	P	80	02	04	18
	Drainage Pump Station		P	P	PX	80	02	04	19
	Inlet Chamber		P			80	02	04	20
	Catch Basin		P	P	L	80	02	05	00
	Service Reservoir		P	P	P	80	02	06	00
	Breakwater		P	P	L	80	02	07	00
	Channel		L	L	L	80	02	08	00
	Pond		P	X	X	80	02	09	00
	Swimming Pool		P	X	X	80	02	10	00
	Well		X	X	X	80	02	11	00
	Artesian		X	X	X	80	02	11	01
	Public		X	X	X	80	02	11	02
	Ferry Crossing		P	P	L	80	02	12	00
	Empangan (dam)		P	P	P	80	02	13	00
	Lombong Batu (Quarry)		P	P	P	80	02	14	00
	Lagoon		P	P	P	80	02	15	00
	Drainage Points		P	P	P	80	02	16	00
	Culvert Points		X	X	X	80	02	16	01

FEATURE GROUP	MAP SCALE			FEATURE CODE			
	1K	10K	50K	L1	L2	L3	L4
MISCELLANEOUS FEATURES							
Miscpoly	P	P	P	91	00	00	00
Benutan	P	P	P	91	01	00	00
Monument	P	PX	X	91	02	00	00
Dome	X	X	X	91	02	00	00
Miscline	L	L	L	92	00	00	00
Stairs	P	L		92	01	01	00
Concrete	P	L		92	01	02	00
Wooden	P	L		92	01	03	00
Fence / Pagar	L	L		92	02	00	00
Cement / Concrete Compound	L	L	L	92	03	00	00
Gate				92	04	00	00
Steel	L	L		92	04	01	00
Guard Rail	L			92	06	00	00
Metal grate / grille	L			92	07	00	00
Miscpnt	X	X	X	93	00	00	00
Flag pole	X			93	01	00	00
Label / Papan Tanda	X	X	X	93	02	00	00
Pusat Bandar	X	X	X	93	02	01	00
Pekan	X	X	X	93	02	02	00
Kampung	X	X	X	93	02	03	00
Bukit	X	X	X	93	02	04	00
Goal Post				93	03	00	00
Football	X			93	03	01	00
Netball	X			93	03	02	00
Hockey	X			93	03	03	00
Basketball	X			93	03	04	00
CCTV	X	X	X	93	04	07	00

LIST OF FEATURE CODES USED BY THE TOWN AND COUNTRY PLANNING DEPARTMENT

FEATURE GROUP				MAP SCALE			FEATURE CODE				
				1K	10K	50K		L1	L2	L3	L4
LANDUSE [10]				P	P	P		10	*	*	*
Permanent				P	P	P		10	00	00	00
	Residential			P	P	P		10	01	00	00
	General Housing			P	P	P		10	01	01	00
		Low		P	P	P		10	01	01	01
		Medium		P	P	P		10	01	01	02
		High		P	P	P		10	01	01	03
	Special Housing			P	P	P		10	01	02	00
		Hotel		P	P	P		10	01	02	01
		Service Apartments		P	P	P		10	01	02	02
		Hostels		P	P	P		10	01	02	03
		Palace		P	P	P		10	01	02	04
		Rest House		P	P	P		10	01	02	05
		Homestay		P	P	P		10	01	02	06
	Other Residential			P	P	P		10	01	03	00
		Residential Institution		P	P	P		10	01	03	01
		Condominium		P	P	P		10	01	03	02
		Government Accommodation (Flats)		P	P	P		10	01	03	03
		Longhouse / Rumah Panjang		P	P	P		10	01	03	04
		Detached House		P	P	P		10	01	03	05
		Semi Detached House		P	P	P		10	01	03	06
		Terrace		P	P	P		10	01	03	07
		Labour Quarters		P	P	P		10	01	03	08
		Private Accommodation (Flats)		P	P	P		10	01	03	09
		Government Housing		P	P	P		10	01	03	10
		Private Housing		P	P	P		10	01	03	11
Commercial				P	P	P		10	02	00	00
	Retail Shop & Services			P	P	P		10	02	01	00
		Supermarket		P	P	P		10	02	01	01
		Department Store		P	P	P		10	02	01	02
		Individual Shop		P	P	P		10	02	01	03
		Hairdressers		P	P	P		10	02	01	04
		Travel Agent		P	P	P		10	02	01	05
		Dry Cleaner		P	P	P		10	02	01	06
		Tailor		P	P	P		10	02	01	07
		Bakery		P	P	P		10	02	01	08
		Shophouses		P	P	P		10	02	01	09
	Restaurant			P	P	P		10	02	02	00
		Coffee Shop		P	P	P		10	02	02	01
		Fast Food Store		P	P	P		10	02	02	02
		Canteen / Tuckshop / Dining Hall		P	P	P		10	02	02	03
		Food Court		P	P	P		10	02	02	04
	Market / Hawker Stall			P	P	P		10	02	03	00

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
LANDUSE [10]			P	P	P	10	*	*	*
		Retail Showroom	P	P	P	10	02	04	00
		Furniture	P	P	P	10	02	04	01
		Carpet	P	P	P	10	02	04	02
		Tiles	P	P	P	10	02	04	03
		Cars	P	P	P	10	02	04	04
		Offices	P	P	P	10	02	05	00
		Professional Services	P	P	P	10	02	05	01
		Insurance Agent	P	P	P	10	02	05	02
		Banks	P	P	P	10	02	06	00
		ATM	P	P	P	10	02	06	01
		Medical Specialist Room	P	P	P	10	02	07	00
		Dentist	P	P	P	10	02	07	01
		Doctor	P	P	P	10	02	07	02
		Optician	P	P	P	10	02	07	03
		Private Tuition Centre	P	P	P	10	02	08	00
		Computer School	P	P	P	10	02	08	01
		Music School	P	P	P	10	02	08	02
		Leisure Activities	P	P	P	10	02	09	00
		Fitness Centre	P	P	P	10	02	09	01
		Snooker Hall	P	P	P	10	02	09	02
		Amusement Centre	P	P	P	10	02	09	03
		Recreation Centre	P	P	P	10	02	09	04
		Sport Facilities	P	P	P	10	02	09	05
		Petrol Filling Station	P	P	P	10	02	10	00
		Plant Nursery	P	P	P	10	02	11	00
		Public Entertainment	P	P	P	10	02	12	00
		Multi-Storey Office	P	P	P	10	02	13	00
		Mixed Use	P	P	P	10	02	14	00
		50 % Commercial 50% Residential	P	P	P	10	02	14	01
		25 % Commercial 75% Residential	P	P	P	10	02	14	02
		75 % Commercial 25% Residential	P	P	P	10	02	14	03
		Garbage Disposal	P	P	P	10	02	15	00
		Hotel	P	P	P	10	02	16	00
		Industrial	P	P	P	10	03	00	00
		Wholesale / Storage	P	P	P	10	03	01	00
		Wholesale / Retail Warehouse	P	P	P	10	03	01	01
		Storage Yard	P	P	P	10	03	01	02
		Workshop	P	P	P	10	03	02	00
		Car Repair / Servicing	P	P	P	10	03	02	01
		Tyre Fitter	P	P	P	10	03	02	02
		Car Wash	P	P	P	10	03	02	03

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
LANDUSE [10]			P	P	P	10	*	*	*
		Furniture Making	P	P	P	10	03	02	04
		Printing Shop	P	P	P	10	03	02	05
		Metalworks Workshop	P	P	P	10	03	02	06
		Light Industry	P	P	P	10	03	03	00
		Motor Vehicle Dealer	P	P	P	10	03	03	01
		General Industry	P	P	P	10	03	04	00
		Bakery / Food Preparation	P	P	P	10	03	04	01
		Garment Manufacturer	P	P	P	10	03	04	02
		Bottling Plant / Food Processing	P	P	P	10	03	04	03
		Sawmill / Timber Processing	P	P	P	10	03	04	04
		Brickwork / Brick Kiln	P	P	P	10	03	04	05
		BSP Industrial Area	P	P	P	10	03	04	06
		Oil and Gas Refinery	P	P	P	10	03	04	07
		Industrial Processing	P	P	P	10	03	04	08
		Factory	P	P	P	10	03	04	09
		Construction Sites	P	P	P	10	03	04	10
		Timber Industries	P	P	P	10	03	04	11
		Quarry	P	P	P	10	03	05	00
		Sand Mining	P	P	P	10	03	05	01
		Coarse Aggregate Extraction	P	P	P	10	03	05	02
		Aggregate Washing	P	P	P	10	03	05	03
Welfare, Community & Leisure Facilities			P	P	P	10	04	00	00
		Education facility	P	P	P	10	04	01	00
		Kindergarten	P	P	P	10	04	01	01
		Primary School	P	P	P	10	04	01	02
		Secondary School	P	P	P	10	04	01	03
		Technical College	P	P	P	10	04	01	04
		Vocational Training	P	P	P	10	04	01	05
		Religious School	P	P	P	10	04	01	06
		Institute	P	P	P	10	04	01	07
		University	P	P	P	10	04	01	08
		Other Education Establishment	P	P	P	10	04	01	09
		Day Care Centre	P	P	P	10	04	01	10
		Training Centre	P	P	P	10	04	01	11
		Health Facilities	P	P	P	10	04	02	00
		Clinic	P	P	P	10	04	02	01
		Health Centre	P	P	P	10	04	02	02
		Hospital	P	P	P	10	04	02	03
		Rehabilitation Centre	P	P	P	10	04	02	04
		Private Health Clinic	P	P	P	10	04	02	05
		Post Office	P	P	P	10	04	03	00
		Community Centre	P	P	P	10	04	04	00
		Balai Raya	P	P	P	10	04	04	01
		Community Hall / Dewan Kemasyarakatan	P	P	P	10	04	04	02

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
LANDUSE [10]		P	P	P	10	*	*	*
	Cultural Facilities	P	P	P	10	04	05	00
	Art Gallery	P	P	P	10	04	05	01
	Library	P	P	P	10	04	05	02
	Museum	P	P	P	10	04	05	03
	Theatre	P	P	P	10	04	05	04
	Cinema	P	P	P	10	04	05	05
	Exhibition Hall	P	P	P	10	04	05	06
	Concert Hall	P	P	P	10	04	05	07
	Place for moon sighting / Observatory Tower	P	P	P	10	04	05	08
	Sport & Leisure	P	P	P	10	04	06	00
	Stadium	P	P	P	10	04	06	01
	Gymnasium	P	P	P	10	04	06	02
	Swimming Pool	P	P	P	10	04	06	03
	Bowling Alley	P	P	P	10	04	06	04
	Sports Centre Level 4	P	P	P	10	04	06	05
	Sports Centre Level 3	P	P	P	10	04	06	06
	Athletic Track	P	P	P	10	04	06	07
	Golf Clubhouse	P	P	P	10	04	06	08
	Grandstand	P	P	P	10	04	06	09
	Football Pitch	P	P	P	10	04	06	10
	Windsurfing Clubhouse	P	P	P	10	04	06	11
	Tennis Court	P	P	P	10	04	06	12
	Basketball Court	P	P	P	10	04	06	13
	Futsal Court	P	P	P	10	04	06	14
	Places of Worship	P	P	P	10	04	07	00
	Mosque	P	P	P	10	04	07	01
	Surau	P	P	P	10	04	07	02
	Kuil / Hindu Temple	P	P	P	10	04	07	03
	Church	P	P	P	10	04	07	04
	Wat / Buddhist Temple	P	P	P	10	04	07	05
	Others	P	P	P	10	04	07	06
	Cemetery	P	P	P	10	04	08	00
	Muslim	P	P	P	10	04	08	01
	Buddha	P	P	P	10	04	05	02
	Christian	P	P	P	10	04	08	03
	Hindu	P	P	P	10	04	08	04
	International	P	P	P	10	04	08	05
	Archeological Feature	P	P	P	10	04	08	06
	Makam	P	P	P	10	04	08	07
	Iban	P	P	P	10	04	08	08
	Dusun	P	P	P	10	04	08	09
	Crematorium	P	P	P	10	04	09	00
	Open Space	P	P	P	10	05	00	00
	Recreation	P	P	P	10	05	01	00
	Playing Field	P	P	P	10	05	01	01
	Park	P	P	P	10	05	01	02
	Golf Course	P	P	P	10	05	01	03

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
LANDUSE [10]			P	P	P	10	*	*	*
		Children's Play Area	P	P	P	10	05	01	04
		Marina	P	P	P	10	05	01	05
		Bunker	P	P	P	10	05	01	06
		Amenity	P	P	P	10	05	02	00
		Private Garden	P	P	P	10	05	02	01
		Soft Landscape Centre	P	P	P	10	05	02	02
		Amenity Centre	P	P	P	10	05	02	03
		Open Stage	P	P	P	10	05	02	04
		Cement	P	P	P	10	05	03	00
		Sand / Inland Sand	P	P	P	10	05	04	04
		Cleared Ground	P	P	P	10	05	05	04
Government Use			P	P	P	10	06	00	00
		Government Office	P	P	P	10	06	01	00
		District Office	P	P	P	10	06	01	01
		Government Depot	P	P	P	10	06	02	00
		Fire Station	P	P	P	10	06	03	00
		Police Station	P	P	P	10	06	04	00
		Military Security	P	P	P	10	06	05	00
		Palace	P	P	P	10	06	05	01
		Prison	P	P	P	10	06	05	02
		Firing Range	P	P	P	10	06	05	03
		Military Buildings	P	P	P	10	06	05	04
		Stesen Uji Kaji Pertanian	P	P	P	10	06	06	00
		Stesen Kastam	P	P	P	10	06	07	00
		Barracks	P	P	P	10	06	08	00
		Public Toilet	P	P	P	10	06	09	00
		Guard House (Police, Security, Parking etc)	P	P	P	10	06	10	00
		Store	P	P	P	10	06	11	00
		Stesen Imigresen	P	P	P	10	16	12	00
Road & Utilities			P	P	P	10	07	00	00
		Road & Footpath	P	P	P	10	07	01	00
		Paved Area	P	P	P	10	07	01	01
		Unpaved Road	P	P	P	10	07	01	02
		Road Reserve	P	P	P	10	07	01	03
		Car Park	P	P	P	10	07	02	00
		Surface Car Park	P	P	P	10	07	02	01
		Multi-Storey Car Park	P	P	P	10	07	02	02
		Other Transport Uses	P	P	P	10	07	03	00
		Bus Station	P	P	P	10	07	03	01
		Taxi Rank	P	P	P	10	07	03	02
		Jetty	P	P	P	10	07	03	03
		Airfield	P	P	P	10	07	03	04

FEATURE GROUP			MAP SCALE			FEATURE CODE			
			1K	10K	50K	L1	L2	L3	L4
LANDUSE [10]			P	P	P	10	*	*	*
		Wharf	P	P	P	10	07	03	05
		International Airport	P	P	P	10	07	03	06
		Anduki Airfield	P	P	P	10	07	03	07
		Airstrip	P	P	P	10	07	03	08
		Helipad	P	P	P	10	07	03	09
		Terminal	P	P	P	10	07	03	10
		Airport Hangar	P	P	P	10	07	03	11
		Roadside Bus Stop	P	P	P	10	07	03	12
		Airport Terminal	P	P	P	10	07	03	13
		Ferry Terminal	P	P	P	10	07	03	14
		Port Terminal	P	P	P	10	07	03	15
		Garage	P	P	P	10	07	03	16
		Walkway (roof)	P	P	P	10	07	03	17
		Utilities	P	P	P	10	07	04	00
		Power Station	P	P	P	10	07	04	01
		Power Substation	P	P	P	10	07	04	02
		Sewerage Treatment / Oxidation Pond	P	P	P	10	07	04	03
		Reservoir	P	P	P	10	07	04	04
		Major Drain / Main Drain	P	P	P	10	07	04	05
		Telephone Exchange	P	P	P	10	07	04	06
		Water Tank	P	P	P	10	07	04	07
		Radio Mast	P	P	P	10	07	04	08
		Transmitter Tower	P	P	P	10	07	04	09
		Lighthouse	P	P	P	10	07	04	10
		Power Transformer	P	P	P	10	07	04	11
		Power Transmission Wayleave	P	P	P	10	07	04	12
		Satellite Station	P	P	P	10	07	04	13
		Service Reservoir	P	P	P	10	07	04	14
		Power Station Pylons	P	P	P	10	07	04	15
		Satellite Station	PX			10	07	04	16
		Service Reservoir	PX			10	07	04	17
		Radio Room	X			10	07	04	18
		Chiller Room	P	P	P	10	07	04	01
		Gas Marker	P	P	P	10	07	04	02
Water & Coastal Feature			P	P	P	10	10	00	00
		Water Feature	P	P	P	10	10	01	00
		Water Courses	P	P	P	10	10	01	01
		Lake	P	P	P	10	10	01	02
		Coastal Feature	P	P	P	10	10	02	00
		Beach	P	P	P	10	10	02	01
		Mooring Bouys	P	P	P	10	10	02	02
		Island	P	P	P	10	10	03	00

FEATURE GROUP		MAP SCALE			FEATURE CODE			
		1K	10K	50K	L1	L2	L3	L4
LAND USE ZONE [11]		P	P	P	11	*	*	*
Residential		P	P	P	11	01	00	00
Commercial		P	P	P	11	02	00	00
Industrial		P	P	P	11	03	00	00
Welfare, Community & Leisure Facilities		P	P	P	11	04	00	00
Open space		P	P	P	11	05	00	00
Government Use		P	P	P	11	06	00	00
Roads and Transport		P	P	P	11	07	00	00
Natural Vegetation		P	P	P	11	08	00	00
Agriculture		P	P	P	11	09	00	00
	Class 1 & 2 Agriculture Land	P	P	P	11	09	01	00
	KKP Sites	P	P	P	11	09	02	00
	KPLB Sites	P	P	P	11	09	03	00
	Mechanized Rice Areas	P	P	P	11	09	04	00
Aquaculture		P	P	P	11	10	00	00
Water and Coastal Features		P	P	P	11	11	00	00
	Indicative Catchment Areas	P	P	P	11	11	01	00
	River Corridors	P	P	P	11	11	02	00
	Beaches and Escarpments	P	P	P	11	11	03	00
Environment Protection Zone		P	P	P	11	12	00	00
	National Parks Wildlife	P	P	P	11	12	01	00
	Significant Landscape Features	P	P	P	11	12	02	00
	Ridge Conservation Area	P	P	P	11	12	03	00
	Mangrove Conservation Area	P	P	P	11	12	04	00
	Island Protection Area	P	P	P	11	12	05	00
	Catchment Protection Areas	P	P	P	11	12	06	00
	River Corridors and Floodplains	P	P	P	11	12	07	00
	Key Scenic Ridgelines	P	P	P	11	12	08	00
Forest		P	P	P	11	13	00	00
	Community Forest	P	P	P	11	13	01	00
	Forests Corridor	P	P	P	11	13	02	00
	Heart of Borneo	P	P	P	11	13	03	00
	Production Forests	P	P	P	11	13	04	00
	Protection Forests	P	P	P	11	13	05	00
	Recreation Forests	P	P	P	11	13	06	00
	Research Forests	P	P	P	11	13	07	00
Utilities / Wayleaves		P	P	P	11	14	00	00
Minerals and Gravel Resources		P	P	P	11	15	00	00
	Sand Deposits	P	P	P	11	15	01	00
	Gravel Deposits	P	P	P	11	15	02	00
	Silica Sand Deposits	P	P	P	11	15	03	00
Planning Administrative Boundary		P	P	P	11	16	00	00
	Future Investigation Areas	P	P	P	11	16	01	00
	Special Investigation Areas	P	P	P	11	16	02	00
	Urban Footprint	P	P	P	11	16	03	00
	General Rural / Non-Urban Zone	P	P	P	11	16	04	00