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	downside of a name.  -  Well, Spring, Borehole Nam A name of Well, Spring, Bor Annotation Concrete  Collection Method To digitize the left downside of a name  Airport Name A name of Airport Annotation Concrete  Collection Method To digitize the left downside of a name  Graveyard, Cemetery Name A name of Graveyard, Cemetery Annotation Concrete  Collection Method To digitize the left downside of a name  Graveyard, Cemetery Name A name of Graveyard, Cemetery Annotation Concrete	To digitize the left downside of a name.

Data Type: point	To digitize the left	-	-
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code(1): 9701	**************************************	žą.	
Feature	Valley, Plateau Name		
Definition	A name of Valley, Plateau	5	
Parent class	Annotation		
Abstract / Concrete	Concrete	The second of the second secon	
Attributes	E appellement in communication mentional accountable accountable and the Medical Advantage and the contraction and contraction	Commission of the Property of the Commission of	g 18 och gra (1885) belga (1866) der der der der en staden Ardensen en annen 1860 (1871) av 1871 (1871) av 187
Name	Collection Method	Collection condition	Domain
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code(1): 9703	-	. Consequent and property of the Section (1900 for about more 1900 and application continued and account conjugate property of the Section (1900 for about more 1900 and 1900 for about more 1900 for about mo	
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Name	Collection Method	Collection condition	Domain
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Code(1): 9801	Section of the sectio		gottina - Monthan Hiller than we via management and an appropriate the second s

## 4.3 Definition of Graphics

Regulations of graphics of topographic features for displaying data on computer monitor and printing maps are follows;

Name of	Name of	Data	Code	Graphics	Remarks
package	feature item	type	of		
	<del>-</del>		item		
Boundar	International	Polygon	1101	+++++	color: red
У	Boundary				width: 0,2mm
	Province or	Polygon	1102		color: red
	Region			discribing & sectionists & sometimes & standards &	width: 0.2mm
	Boundary				
	District	Polygon	1103	electronicies & 6 stratumento E in attributamento & 6 and	color: red
	Boundary				width: 0.2mm
	City or	Polygon	1104		color: green
1	Township				width: 0.2mm
	Boundary				
	Consistency	polygon	1105		color: purple
	Boundary				width: 0.1mm
	Ward	polygon	1106		color: purple
	Boundary				width: 0.1mm
	Location	polygon	1107		color; black
	Boundary				width: 0.2mm
	National Park	polygon	1108		color; black
	Boundary				width: 0.2mm
	Game	polygon	1109	, ,	color: green
	Reserve,				width: 0.2mm
	Forest				
	Reserve,				
	Intensive			·	
	Conservation				
	Area				
	Boundary				
Transpor	Real Width	polygon	2101		color: grey red
tation	Road(Main)				width: 0.15mm
	Edge of Real	line	2102		color: grey
	Width			-	width: 0.2mm

Road(Main)				
Real Width Road(Second ary)	polygon	2103		color; grey orange width: 0.15mm
Edge of Real Width Road(Second	line	2104		color: grey width: 0.2mm
ary)  Real Width  Road(Tertiary	polygon	2105		color: grey black width: 0.15mm
Edge of Real Width Road(Tertiary	line	2106		color: grey width: 0,2mm
Real Width Road(District)	polygon	2107		color: grey gold
Edge of Real Width Road(District)	line	2108		color: grey width: 0.2mm
Real Width Road(Others)	line	2109		color: grey width: 0.15mm
Edge of Real Width Road(others)	line	2110		color; grey width: 0.2mm
Main Truck	line	2111		color: grey width: 0,3mm
Other Truck and Foot path	line	2112		color: grey width: 0.2mm
Road Under Construction	polygon	2113	Under Construction	color: grey width: 0.1mm
Cycle Track	Line	2114		color: grey width: 0.1mm
Roundabout	line	2115		color: black width: 0.1 mm

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	Desde III	12	2416		11
	Roads Island	line	2116		color: black
	· · · · · · · · · · · · · · · · · · ·				width: 0.1mm
l	Bridge	line	2201		color; grey
					width: 0.3mm
	Bridge for	line	2202		color: grey
	Main Truck,			<b>-&gt;</b>	width: 0,3mm
	Other Truck				
	and Footpath				
	Flyover	line	2203		color: grey
-					width: 0.15mm
	Culvert	point	2204		color: grey
			Į		width: 0.3mm
	Tunnel 1	line	2205		color: grey
				· · · · · · · · · · · · · · · · · · ·	width: 0.15mm
	Tunnel 2	point	2206	-)	color: grey
					width: 0.3mm
	Railway	line	2301	Acceptance of the second	color: black
				· ·	width: 0.2mm
	Railway light	line	2302	<del></del>	color: black
	[ [	 			width: 0.2mm
	Railway	line	2303	Under construction	color: black
	Under		ŀ	<del>                                     </del>	width: 0.2mm
	Construction				1.2mm
1	Railway	line	2401		color: black
	Bridge			+	width: 0.3mm
	Railway	line	2402		color: black
	Tunnel 1	·		<u>-+</u> +	width: 0.15mm
	Railway	point	2403		color: black
	Tunnel 2			<del></del>	width: 0.3mm
	Railway	Line	2404	4-4-4-	color: black
	Station				width: 0.1mm
	Level	point	2405	LC	color: black
	Crossing				width:
Building	Permanent	polygon	3001		color: grey
S	Buildings				width: 0.2mm
:	Semi-Perman	polygon	3002		color: grey
	ent Buildings				width: 0.2mm 0.1mm
<u> </u>	L	<u></u>	<u> </u>		<u> </u>

	Temporary	polygon	3003	<u> </u>	color: grey
	Buildings	potygon			width: 0.2mm
	Under	polygon	3004	F1	color: grey
	Construction	porgen		U/C	width: 0.1mm
	Buildings				1,2mm
	Pool	polygon	3401	 	color; blue
		polygon	3401		width: 0.1mm
	District	point	3501	2	color: black
	Commissione	ponit	3301	DC	width:
					width,
	r District		3502		color: black
	Division	point	3302	DUO	width:
	Head Quarters			DHQ	widin:
	Law Court	point	3503	LC	color: black
:			1		width:
	Post Office	point	3504	PO	color: black
	l				width:
	Police Station	point	3505	PS	color: black
					width:
	Police Post	point	3506	PP	color: black
					width:
	Fire Station	point	3507	FSt	color: black
					width:
	Labor Office	point	3508	LO	color: black
		·			width:
	Ministry of	point	3509	Mow	color; black
	Public Works				width:
	Market	point	3510	Mkt	color: black
					width:
i	Mosque	point	3511	<b>Y</b>	color: black
	*				width:
	Hindu	point	3512	w	color: black
		•		$\widetilde{\bullet}$	width:
	Church	point	3513		color: black
					width:
	School	point	3514	Sch	color; black
	DUITOUT	Pome	3317	) Done	width:
			<u> </u>		1.12.21.

	ويجان ويجانان والمالات		فتحبر بيسان فينسطوا		
	Kindergarten	Point	3515	Kg	color: black
					width:
	Public Hall	point	3516	PH	color: black
					width:
	Guest House	point	3517	GH	color: black
					width:
	Health Center	point	3518	_L	color: green
					width:
	Hospital	point	3519		color; black green
<u> </u> 					width:
	Dispensary	point	3520	Disp	color: black
					width:
	Bank	point	3521	В	color: black
					width:
	Factory	point	3522	F	color: black
		ļ			width:
	Power Station	point	3523	P/S	color: black
					width:
	Petrol Station	point	3524	<b>D</b>	color: black
				W Annual Proposition of the Prop	width:
	Police booth	point	3525	Pb	color: black
					width:
Small	Monument	point	4201	Λ	color: black
Object					width: 0.15mm
	Statue	point	4202	0	color: black
				L	width: 0.15mm
	Prominent	point	4203	A	color: green brown
	Trec				width: 0.15mm
	Oil Tank	line	4204		color: black
					width:
	Water	line	4205		color: blue
	Reservoir				width: 0.15mm
	Water Tank	line	4206		color: black, blue
					width: 0.15mm
	Wind Pump	point	4207		color: black
Į		[	-	<u> </u>	width: 0.15mm

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	Chimney	point	4208		color: black
					width: 0.15mm
	Pylon(Big)	line	4209		color: black
	7,111(2.8)			Д	width: 0.15mm
	Pylon(Small)	point	4210		color: black
				Ц	width: 0.15mm
	TV/Radio	point	4211	Y W	color; black
	Wave Tower		<u> </u>	ا آتر ا	width: 0.15mm
	Cellular	point	4212	\-\	color: black
	phone Tower				width:
	Lighthouse	point	4213	(i)	color: black
					width: 0.15mm
	Water Level	point	4214	·	color: black
	Observatory	 			width: 0,15mm
	Pipeline(on	line	4215		color: blue
	the ground)				width: 0,1mm
	Power Line	line	4216		color: black
					width: 0.1mm
Water	Shore Line	line	5101		color: blue
Area					width: 0.15mm
	Lake	polygon	5102		color: black, cyanogens
					width: 0.15mm
	Pond	polygon	5103		color: blue
-					width: 0.15mm
	River	line	5104		color: blue
					width: 0.15mm
	River(single	line	5105		color: blue
	line)				width: 0.15mm
	Seasonal	line	5106		color: blue
	River(double	 			width: 0.1mm
	line)				
	Seasonal	line	5107		color: blue
	River(single		i 	\_/	width: 0.1mm
	line)				
	Jetty(concrete	line	5201		color: black
	)		<u> </u>		width: 0.2mm

	Ferry	point	5202	6 / ^	color; black
	1 4,	ponit	3202		width: 0.1mm
	Dam	point	5203		color: black, blue
		p		-	width: 0.1mm
	Waterfall(line	line	5204		color; blue
	)		, ,		width: 0.2mm
	Waterfall(poi	point	5205		color: black
	nt)	•			width: 0.2mm
	Watergate(lin	line	5206		color; black
	e)				width: 0.2mm
	Watergate(poi	point	5207	ПП	color; black
	nt)				width: 0.2mm
	Borehole	point	5208	O	color: blue black
				₩ ВН	width: 0.2mm
	Well	point	5209		color: blue black
				W :	width: 0.2mm
	Spring	point	5210	$\bigcap$ a	color: blue black
				$\bigcup$ s	width: 0.2mm
	Direction of	point	5211		color; blue
	Flowing	-			width: 0.3mm
	Water				
Surround	Hedge	line	6101	· · · · · · · · · · · · · · · · · · ·	color: black
					width: 0.2mm
	Walls	line	6102		color: Black
		·		] W	width: 0.2mm
					Annotation:
		•			Font: gothic
		·			Size: 2mm
	Fences	line	6103		color; black
				J F	width: 0.2mm
					Annotation:
					Font: gothic
,					Size: 2mm
Open	Car	point	6201	• Car park	color: black
Space	Park(Small)				width: 0,2mm
					Annotation:
					Font: gothic, italic

					Size: 2.0mm
	Car Park(big)	polygon	6202		color: black
	Garden	point	6203	Garden	color; black annotation width: 0.2mm
	Graveyard	polygon	6204		color: black width: 0.15mm
	Cemetery	point	6205	<u></u>	color: black width: 0.2mm
	Crater	line	6206	**	color; black width;
Vegetatio n	Rice Field	polygon	6301	Rice	color: black green width: 0,1mm
	Cultivated	polygon	6302		color: green width: 0.1mm
	Coffee Plantation	polygon	6303	С	color: black green width: 0.1mm
	Sisal Plantation	polygon	6304	<i>"                                    </i>	color: black green width: 0.1mm
	Sugar Plantation	polygon	6305	Su	color: black green width: 0,1mm
	Palm Plantation	polygon	6306		color: black green width: 0.1mm
	Wattle Plantation	polygon	6307	<i>W</i>	color: black green width: 0.1mm
	Cashew Nut Plantation	polygon	6308	СИ	color: black green width: 0.1mm
	Turf	polygon	6309		color: green green 60 dot 75/25 diagonal
	Grass	polygon	6310		color: brown
	Forest	polygon	6311		color: green

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	Thicket	polygon	6312		color: black green
				<u>h</u> — —	width: 0.1mm
1	Bamboo	polygon	6313		color: black green
					width: 0.1mm
	Woodland	polygon	6314	$\phi_{\Lambda} \phi$	color; green
				Τ ()	width: 0.1mm
	Shrub	polygon	6315	ш,	color; green
				1	width: 0.1mm
	Scattered	polygon	6316		color; green
	Trees			Q Q Q	width: 0.1mm
	Palm	polygon	6317	_ 本_ 本	color: green
				<u> </u>	width: 0.1mm
	Marsh	polygon	6318	44.	color: blue
				******	width: 0.1mm
	Dambo	polygon	6319		color: blue
	<u> </u>				width: 0.1mm
	Sand or	polygon	6320		color; brown
	Mud(Inland)			******	
	Sand or	polygon	6321	*****	color: grown
 	Mud(Coastal)			*****	
Topogra	Contour	line	7101		color: brown
phic	Index (10m)				width: 0.2mm
Features	Contour	line	7102		color: brown
	Normal (2m)		*		width: 0.1mm
	Supplementar	line	7103		color: brown
	y Contour				width: 0.1mm
	(1m)				
	Depression	Line	7104		color: brown
					width: 0.2mm
	Steep Slope	line	7201	Alleria TIT	color: brown
				SECTION TITE	width: 0.1mm
	Cliff	line	7202	TYYYY A	color: brown
				LEFF H	width: 0.1mm
			·	<del></del>	<del></del>
	Outcrop Rock	polygon	7203		color: black

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		l ,,	7204		
	Quarry	line	7204		color: brown
					width: 0.1mm
	Congealed	point	7205		color; black
	Lava				width: 0.1mm
	Artificial	line	7206		color: black
	Slope(Emban				width: 0.1mm
	kment)	Ę.		, , , , , ,	,
	Artificial	line	7207		color: black
	Slope(Cutting	1		'	width: 0.1mm
	)				
	Riverbank	line	7208	· · ·	color: black
		}			width: 0.1mm
	Covering(Coa	line	7209		color: black
	ting)			0 0	width: 0.2 0.1mm
Control	Geodetic	point	7301	<b>A</b>	color; black brown
Points	Point-Primary	Pour	7501		width: 0.2 0.3mm
romis	Geodetic	point	7302	^	color: black
	ļ	ponit	7302		width: 0.3 0.2mm
	Point-Second	!			width: 0.3 0.2mm
	ary			•	
	Geodetic	point	7303		color: black
	Point-				width: 0.3 0.2mm
	Tertiary				
	Unclassified	point	7304		color: black
	Geodetic			0	width: 0.3mm
	Point				
	Bench Mark	point	7305		color; black
				1245.6	
	Boundary	point	7306		color: black
	   Pillar			▲ BP	
	Spot Height	point	7307		color: black annotation
				· 1250.6	width: 0.2mm
Others	Point arrow	point	8101		color: black
	Principal	point	8102	, !	color: black
			i	\ <del>+</del> +	i

	Contour	point	8103	1250	color: black annotation
	height value			1 250	width: 0.2mm
Annotati	Nation	point	9101		color; black annotation:
on					Font: Gill Sans Regular
					Size: 5.0mm
:	Province or	point	9102	e.g.	color: black annotation:
	Region				Font: Gill Sans Regular
					Size: 4.5mm
	District	point	9103	e.g.	color: black annotation:
				. "	Font: Gill Sans Regular
					Size: 4.0mm
	City or	point	9104	e.g.	color: black annotation:
	Township				Font: Gill Sans Regular
					Size: 4.5mm
	Consistency	point	9105	e.g.	color: purple
					annotation;
					Font: Gill Sans Regular
				es. Ve	Size: 3.5mm
	Ward	point	9106	c.g.	color: black annotation:
ļ					Font: Gill Sans Regular
				·	Size: 3.0mm
	Location	point	9107	e.g.	color: dark blue
					annotation:
					Font: Gill Sans Regular
					Size: 3.5mm
	National Park	point	9108	c.g.	color: green annotation:
					Font: Gill Sans Regular
					Size: 4.0mm
	Common	point	9109	e.g.	color: black annotation:
	name				Font: Gill Sans Regular
					Size: 3.0mm
	Real Width	point	9201	c.g.	color: black annotation:
	Road(Main)				Font: Gill Sans Regular
					Size: 2.0mm
	Real Width	point	9202	e.g.	color: black annotation:
	Road(Second				Font: Gill Sans Regular
	ary)				Size: 1.8mm
	1	L	<u> </u>	1	<u></u>

Post of State of Stat		——————————————————————————————————————	of the same of		T
	Real Width	point	9203	e.g.	color: black annotation;
	Road(Tertiary				Font: Gill Sans Regular
	)	<u></u>			Size: 1.5mm
	Real Width	point	9204	e.g.	color: black annotation:
	Road(District)		<u> </u> 		Font: Gill Sans Regular
					Size: 1.5mm
	Bridge	point	9205	e.g.	color: black annotation:
					Font: Gill Sans Regular
					Size; 2.5mm
	Tunnel	point	9206	e.g.	color; black annotation:
					Font: Gill Sans Regular
					Size: 2.5mm
	Railway	point	9207	c.g.	color: black annotation;
					Font: Gill Sans Regular
					Size: 3.0mm
	Railway	point	9208	e.g.	color: black annotation:
	Station				Font: Gill Sans Regular
					Size: 2.5mm
:	Building	point	9301	e.g.	color: black annotation:
					Font: Gill Sans Regular
					Size: 2.5mm
	Small Object	point	9401	e.g.	color: black annotation;
					Font: Gill Sans Regular
	,				Size: 2.5mm
	River	point	9501	e.g.	Color: blue
					Font: Gill Sans Regular
					Size: 4.0mm
	River(Single)	point	9502	c.f.	color: blue annotation:
					Font: Gill Sans Regular
					Size: 3.2mm
	Lake/Pond/S	point	9503	e.g.	color: blue annotation:
	wamp				Font: Gill Sans Regular
	•				Size: 4.7mm
	Cape/Cape	point	9504	c.g.	color: blue annotation:
	Point	-		-	Font: Gill Sans Regular
					Size: 2.6mm
	Harbor/Bay	point	9505	mendenne menden propriet sent to community construction of the con	color: blue annotation:
				The control of the c	

				Font: Gill Sans Regular
				Size: 2.9mm
Island	point	9506	c.g.	color: black annotation:
-5		3000		Font: Gill Sans Regular
				Size: 4.7mm
Ferry	point	9507	e.g.	color: black annotation
,	pomi	3307		Font: Gill Sans Regular
				Size: 2.5mm
Dam	point	9508	e.g.	color: black annotation
22 1111	Pom	7500	V.5.	Font: Gill Sans Regula
				Size: 2,5mm
Waterfall	point	9509	c.g.	color: black annotation
ratorian	pom	)307	o.g.	Font: Gill Sans Regular
l				Size: 1.5mm
Well/Spring/B	Point	9510	0.0	color: blue annotation:
orchole	Pont	9310	c.g.	Font: Gill Sans Regula
orchoic			٠.	Size: 1.5mm
A	Point	9601		
Airport	Point	שטעו	c.g.	color: black annotation
			·	Font: Gill Sans Regula
		0.000		Size: 3.5mm
Graveyard/Ce	point	9602	c.g.	color: black annotation
metery				Font: Gill Sans Regula
		0.000		Size: 2.0mm
Vegetation	point	9603	c.g.	color: black annotation
				Font: Gill Sans Regula
	_			Size: 2.5mm
Mountain	point	9701	e.g.	color: black annotation
				Font: Gill Sans Regula
·				Size: 3.0mm
Valley/Plateau	point	9702	e.g.	color: black annotation
				Font: Gill Sans Regula
	<u> </u>			Size: 2.5mm
Hin	point	9703	c.g.	color: black annotation
				Font: Gill Sans Regula
				Size: 2.5mm
Control Point	point	9801	c.g.	color: black annotation
				Font: Gill Sans Regula

## 5 Reference System

## 5.1 Spatial reference system

The spatial reference system of 1:10,000 scale digital topographic maps is as

					ooo scare digitar topograpine maps is as
C	Compound coordinates reference system  Identical name				
	Co			es reference system 1 (Horiz	contal component)
				cal name	The same of the sa
	Domain of validity			The Republic of Malawi	
		D	atu <u>n</u>		
				entical name	n/a
		- 1	Ty	pe	17/a
				ced (False) origin	500,000m Easting, 10,000,000m Northing
٠			Ell	ipsoid	
	1			Identical name	Clarke 1880 (Modified)
				Semi major axis	6,378,249,145326
. ' '		ìì		Inverse flattening	1 / 293,4663076
	1.5		Pri	me meridian	
				Identical name	Greenwich meridian
				Greenwich longitude	33deg 00min East of Greenwich
:		C	oord	inate system	
			Ide	entical name	Universal Transversal Mercator (UTM)
			Ту		UTM Projection in Zone 36
				ımber of dim	2
			Co	ordinate axis	
			. [	Name	Northing
				Direction	Positive to true north at origin
	'	١. ١	ا اا	Unit identifier	Meter
		l	Co	ordinate axis	
٠, ١		l. 1		Name	Easting
. :		l .		Direction	Positive to true east at origin
				Unit identifier	Meter
	Co	ord	inate	es reference system 2 (Verti	cal component)
				cal name	the mean sea level of the Indian Ocean
		D	oma	in of validity	The Republic of Melawi
		D	atun	1 .	
:			Ide	entical name	the mean sea level of the Indian Ocean
		٠.	Ту	ре	Altitude
. '	· · ·	1	Fi	xed origin	0.00.
		Ιc	oord	linate system	
				entical name	Altitude
				pe	AND THE AND THE RESIDENCE OF THE PROPERTY OF T
				imber of dim	- to top P and to 3 these processing and an appropriate management of the control
				oordinate axis	
				Name	Altitude
1				Direction	Vertical from each geoidal surface
				Unit identifier	Meter

## **5.2** Temporal reference system

The temporal reference system of 1:10,000 scale digital topographic maps is as follows;

The calendar: Gregorian calendar

The standard time: East African Standard Time (ESAT)

#### Data quality

## 6.1 Quality requirements and evaluation procedure

#### 6.1.1 Completeness

#### (1)Excess

Domain of validity	Data quality evaluation ind	ex
Boundary,	Name	Excess percentage
Control Point.	Definition	The feature items that are targeted for quality evaluation in the 0.5km grid cell of the map sheet are compared with original data. The error rate is found by computing the ratio of 0.5km grid cells where there is no reference data in correspondence to the topographic map data. The following cases are designated as grid cell errors.  No reference data that corresponds with the topographic map data  The duplicate topographic map data is present. Error Rate (%) = (the number of grid cells with errors/the total number of cells in the map sheet)×100.
	Quality conformity level	Error rate = 0%

#### Quality evaluation procedure

Full Inspection

Display or output 0.5km grid cells and data included in the domain of validity so that it can be identified.

Determine the error grid cell based on the definition for the data quality evaluation index.

Count the number of error grid cells and total number of grid cells, and calculate the error rate based on the error rate formula.

The error rate shall be acceptable when it equals 0%, and unacceptable when greater than 0%.

Domain of validity	Data quality evaluation ind	ex
Transportation, Buildings,	Name	Excess percentage
Small Objects, Water areas, Surround, Open Spaces, Vegetation, Topographic features, Others.	Definition	The feature items that are targeted for quality evaluation in the 0.5km grid cell of the map sheet are compared with reference data. The error rate is found by computing the ratio of 0.5km grid cells where there is no reference data in correspondence to the topographic map data. The following cases are designated as grid cell errors.  • The duplicate topographic map data is present.  • When excess data extends across multiple cells, all of the related cells are counted as errors.  Error Rate (%) = (the number of grid cells with errors/the total number of cells inspected)×100.
	Quality conformity level	Error Rate ≤ 5%
Quality evaluation procedure	and the second s	The first of the f
Sample Increation	1.000-000	

Sample Inspection

- Display or output 0.5km grid cells and data included in the domain of validity so that it can be identified.
- Extract 20% of the total grid cells at random from the map sheet. Use a random number table to extract grid cells with consecutive numbers.
- The conditions to be followed when conducting a random extraction of grid cells are as follows:
  - No gaps in features, such as bodies of water.
  - A large number of features in the domain of validity are contained.

If the extracted grid cells are not appropriate, an adjacent cell will be extracted.

- Target the extracted grid cell and determine the error grid cell based on the definition for the data quality evaluation index.
- Find the error rate by calculating the number of error grid cells and the number of extracted grid cells based on the error rate formula.
- The error rate is acceptable when it is less than or equal to 5% and unacceptable if greater than 5%.

Domain of validity	Data quality evaluation index	K
Annotation.	Name	Excess percentage
	Definition	The feature items (annotations) that are targeted for quality evaluation in the map sheet are compared with reference data. The error rate is found by computing the
De remain stage de la constanta de la constant		ratio of errors where there is no reference data in

	corresponding to the topographic map data. The
	following cases are designated as errors.
	The annotation in the topographic map data that
	does not correspond to reference data is present.
	The annotation duplicates.
	Error Rate (%) = (the number of errors/the total
	number of annotations in the original material)× 100.
Quality conformity leve	Error Rate ≤ 5%

#### Quality evaluation procedure

Full Inspection

- Display or output data included in the domain of validity so that it can be identified.
- Identify errors based on the definition of data quality evaluation index.
- Find the error rate by calculating the number of errors and the total number in the inspection based on the error rate formula.
- The error rate is acceptable when it is less than or equal to 5% and unacceptable if greater than 5%.

#### (2)Omission

Domain of validity	Data quality evaluation inde	ex
Boundary,	Name	Omission percentage
Control Point.	Definition	The feature items that are targeted for quality evaluation in the 0.5km grid cell of the map sheet are compared with reference data. The error rate is found by computing the ratio of 0.5km grid cells where there is no topographic map data corresponding to the reference data. The following cases are designated as grid cell errors.  • The topographic map data that corresponds to reference material is not present.  Error Rate (%) = (the number of grid cells with errors/the total number of cells in the map sheet)×100.
_	Quality conformity level	Error Rate = 0%
Quality evaluation procedure	et dan Corre de gest e estado en arres armentos (file e el el estado en acesa. E	The science of the second state of the second

#### Quality evaluation procedure

**Full Inspection** 

- Display or output 0.5km grid cells and data included in the domain of validity so that it can be identified.
- Specify the error cells based on the definition of the data quality evaluation measurement.
- Find the error rate by calculating the number of error grid cells and total number of cells, based on the error rate formula.
- The error rate is acceptable when it equals 0% and unacceptable if greater than 0%.

Domain of validity	Data quality evaluation index	(
Transportation, Buildings,	Name	Omission percentage
Small Objects, Water areas, Surround, Open Spaces, Vegetation, Topographic features, Others.	Definition	The feature items that are targeted for quality evaluation in the 0.5km grid cell of the map sheet are compared with reference data. The error rate is found by computing the ratio of 0.5km grid cells where there is no topographic map data corresponding to reference data. The following cases are designated as grid cell errors.  • The topographic map data that corresponds to reference data is not present.  • When omission data extends across multiple grid cells, all of the related grid cells are counted as errors.  Error Rate (%) = (the number of grid cells with errors/the total number of cells inspected)× 100.
	Quality conformity level	Error Rate ≤ 5%

Sample Inspection

- Display or output 0.5km grid cells and data included in the domain of validity so that it can be identified.
- Extract 20% of the total grid cells at random from the map sheet. Use a random number table to extract grid cells with consecutive numbers.
- The conditions to be followed when conducting a random extraction of grid cells are as follows:
  - No gaps in features, such as bodies of water
  - A large number of features in the domain of validity are contained

If the extracted grid cells are not appropriate, an adjacent grid cell will be extracted.

- Target the extracted grid cells and specify the error grid cells based on the definition for the data quality evaluation measurement.
- Find the error rate by calculating the number of error grid cells and the number of extracted grid cells based on the error rate formula.
- 6 The error rate is acceptable when it is less than or equal to 5% and unacceptable if greater than 5%.

Domain of validity	Data quality evaluation ind	ex
Annotation	Name	Omission percentage
	Definition	The feature items (annotation) that are targeted for quality evaluation in the map sheet are compared with reference data. The error rate is found by computing the ratio of errors where there is no topographic map data corresponding to reference data. The following cases are designated as errors.  There are no annotations that correspond with reference data in the topographic map data.  Error Rate (%) = (the number of errors/the total number of annotation in the original data)×100.
	Quality conformity level	Error Rate ≤ 5%

Quality evaluation procedure

Full Inspection

① Display or output data included in the domain of validity scope so that it can be identified.

② Identify errors based on the definition of data quality evaluation measurement.

- Find the error rate by calculating the number of errors and the total number in the inspection based on the error rate formula.
- The error rate is acceptable when it is less than or equal to 5% and unacceptable if greater than 5%.

#### 6.1.2 Logical consistency

#### (1) Formal consistency

Domain of validity	Data quality evaluation inde	
The 1:10,000 scale digital	Name	Package range error percentage
topographic maps	Definition	Each package that is consisted of the 1:10,000 scale
		digital topographic maps are inspected to find the
		formal consistency error. The error rate is found by
•		calculating the ratio of formal consistency error. The
		following cases are designated as errors.
		There are eases that are not open the package data
•		using designated software coresspond with each
	-	package data.
•		Error Rate $(\%)$ = (the number of formal errors/the total
•		number of data file in the all package)×100.
	Quality conformity level	Error Rate = 0%

Quality evaluation procedure

Full Inspection

- ① Choose the package data included in the domain of validity so that it can be identified.
- ② Identify open errors with designated software based on the definition of data quality evaluation measurement.
- Find the error rate by calculating the number of errors and the total number of package data in the inspection based on the error rate formula.

The error rate is acceptable when it equals 0% and unacceptable if greater than 0%.

#### (2) Conceptual consistency

The domain consistency is not adopted.

#### (3) Domain consistency

Domain of validity	Data quality evaluation index	
The 1:10,000 scale digital	Name	Feature item range error percentage
topographic maps	Definition	Each package that is consisted of the 1:10,000 scale
· -	,	digital topographic maps are inspected by the software
		to find the domain consistency error. The error rate is
		found by calculating the ratio of domain consistency
		error. The following cases are designated as errors.
		<ul> <li>There are item codes that are not disigneted in the</li> </ul>

	product specification.  There are relationships between item code and data type that not designated in the product specification.  Error Rate (%) = (the number of domain errors/the total number of data in the package)×100.
Quality conformity level	Error Rate = 0%

Quality evaluation procedure

Full Inspection

① Choose the data package included in the domain of validity so that it can be identified.

(5) Identify errors with imspection software based on the definition of data quality evaluation measurement.

(6) Find the error rate by calculating the number of errors and the total number of data in the inspection based on the error rate formula.

The error rate is acceptable when it equals 0% and unacceptable if greater than 0%.

#### (4) Topological consistency

The topological consistency is not adopted.

#### 6.1.3 Positional accuracy

(1) Absolute exterior positional accuracy

The absolute exterior positional accuracy is not adopted.

(2) Relative interior positional accuracy

The relative interior positional accuracy is not adopted.

(3) Gridded data positional accuracy

The gridded data positional accuracy is not adopted.

#### 6.1.4 Temporal accuracy

(1) Accuracy of a time measurement

The accuracy of a time measurement is not adopted.

(2) Temporal consistency

The temporal consistency is not adopted.

(3) Temporal validity

The temporal validity is not adopted.

#### 6.1.5 Thematic accuracy

(1) Thematic Classification Correctness

The thematic classification correctness is not adopted.

(2) Non Quantitative Attribute Accuracy

The non quantitative attribute accuracy is not adopted.

(3) Quantitative Attribute Accuracy

The quantitative attribute accuracy is not adopted.

## 7 Data product distribution

#### 7.1 Format name

ArcGIS shape format (ESRI), DXF, DGN, PDF and kml is applied for Label/Point, Arc and Polygon.

### 7.2 Encoding rules

n/a

#### 7.3 Language encoding method

The Language encoding is the UTF-8

## 7.4 Language

The language to be used is English

### **7.5** Unit of product

(1) Unit of dataset

The unit of dataset is 1: 10,000

(2) Display Scale

The display scale is 1: 10,000.

(3) Components of

The 1:10,000 scale digital topographic maps consists of 12 topographic packages depending on the character of the feature and each topographic class consists of data depending on the type of data.

Name of data	Name of Package	Name of data	Description of data
The 1:10,000 scale digital topographic	Boundaries	International B (interbpl)	Polygon data of the international
maps		Administrative B (adminibpl)	Polygon data of administrative boundary
	Transportation	Transportation (transpl)	Polygon data of transportation
•	·	Transportation(transli)	Line data of transportation
		Transportation(transpo)	Point data of transportation
	Buildings	Buildings (buildpl)	Polygon data of buildings
		Buildings(buildpo)	Point data of buildings
	Small objects	Small objects (smallli)	Line data of small objects
		Small objects (smallpo)	Point data of small objects
	Water Areas	Water Areas (waterapo)	Point data of water areas
		Water Areas (waterali)	Line data of water areas
		Water Areas (waterapl)	Polygon data of water areas
	Surround	Surround (surroundli)	Line data of surround
	Open Spaces	Open Spaces (ospacepo)	Point data of open spaces
		Open Spaces (ospaceli)	Line data of open spaces
		Open Spaces (ospacepl)	Polygon data of open spaces
	Vegetation	Vegetation (vegetapl)	Polygon data of vegetation
	Topographic	Topographic Features	Point data of topographic features

Features	(topografeapo)	
	Topographic Features (topografeali)	Line data of topographic features
	Topographic Features (topograpfeapl)	polygon data of topographic features
Control Point	Control points (contpopo)	Point data of control point
Others	Others (otherspo)	Point data of others
Annotation	Annotation (annotapo)	Point data of annotation

# 7.6 Media name (Option)

The media to be used is a DVD.

8	Metadata	(Option	1)

Not adopted.

## 9 Others

# 9.1 Portrayal schema (Option)

Not adopted

## 9.2 Maintenance of spatial data products (Option)

n/a

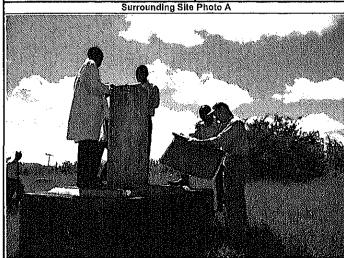
Appendix 4: Descriptions for Ground Control Point



## **Descriptions for Ground Control Point**

#### LCA/ DOS/ JICA

Point No.	142/ MWT	Point Name	SAKDULA	Operated by	S .Nishio
Photo Signal Type	Pricking	Date of Observation	6-Apr-2009	Inspected by	A. Nishimura
Consultanta 3	ana, 11734 26	Horizontal Coord	linates (m)	Ortho H	elght (m)
Coordinate Zone: UTM 36		Easting (E)	Northing (N)	Pillar Point	Ground Height
WGS	3-84	587,213 Handy GPS	8,471,570 Handy GPS		-1.40
Clarke 1880	(Modified)	587,187.711	8,471,885.706	1,250.900	1,249.500
	Surray allan Sila I	Shata A		ingline City Dhate 8	<u> </u>







	ı		

		Descriptions for	Ground Control F	Point		
						LGA/ DOS/ JICA
Point No.	240/ MWT	Point Name	ALIMAUND	E EAST	Operated by	S .Nishio
Photo Signal Type	Pricking	Date of Observatio	n 6-Apr-20	009	Inspected by	A. Nishimura
	Zone: UTM 36	Horizo	ontal Coordinates (m)	dinates (m)		leight (m)
Coordinate	20118: UTM 36	Easting (E)	Northing			Ground Height
wo	3S-84	586,182 Hand	dy GPS 8,463,040	Handy GPS	شا پوشلىپ ليد 30 شر	-2.40
Clarke 188	80 (Modified)	586,159.152	8,463,360	.625	1,134.400	1,132.000
A CONTRACTOR OF THE PARTY OF TH	Surrounding Site	Photo A	WALE-2000000	Surro	unding Site Photo B	
			osition on QB Images	A THE		
			Section of QD mages			



Notes:

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						LCA/ DOS/ JIC
Point No.	143/ MWT	Point Nam	ne	CAPITAL	Operated by	S .Nishlo
hoto Signal Type	Pricking	Date of Obser	rvation	6-Apr-2009	Inspected by	A. Nishimura
Coordinate	Zone: UTM 36	Н	lorizontal Coo	dinates (m)	Ortho Height (m)	
Coordinate	7 20110; OTNI 30	UTM 36 Easting (E)		Northing (N)	Pillar Point	Ground Heigh
W	GS-84	585,275	Handy GPS	8,457,962 Handy GPS		-1.20
Clarke 18	80 (Modified)	585,254.1	71	8,458,288.006	1,110.800	1,109.600
	Surrounding Site	A MARKET AND TANK	6104889788 <b>8</b> 8	Surro	unding Site Photo B	77 VAN 3 VAN 18
	"PORTED TO THE PROPERTY OF THE			THE PARTY OF THE P	ASS A CARROLLE AND ASS.	and the second s
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		W.			un monte a monte a municipal de la constante d	A part of the second se
	atheir					
			Position on	QB Images		
			Position on	QB Images		
			Position on	QB Images		
			Position on	GB Images		
			Position on	QB Images		
			Position on	QB Images		



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	·	

					LCA/ DOS/ JICA
Point No.	81/ MWT	Point Name	LIKUNI	Operated by	S .Nishlo
Photo Signal Type	Pricking	Date of Observation	7-Apr-2009	Inspected by	A. Nishimura
		Horizontal Coor	rdinates (m)	Ortho Height (m)	
Coordinate	Zone: UTM 36	Easting (E)	Northing (N)	Pillar Point	Ground Height
wo	S-84	576,214 Handy GPS	8,451,090 Handy GPS		-1.50
Clarke 188	0 (Modified)	576,188.961	8,451,408.624	1,108.200	1,106.700
	Surrounding Site	Photo A Surro		ounding Site Photo B	
		Position on	QB Images	and the second s	

36 L 576201 26 m E 8451088 88 m S Notes:

		·

#### **Descriptions for Ground Control Point**

		Descriptions for Groun	na Control Point		
					LCA/ DOS/ JICA
Point No.	80/ MWT	Point Name	NCHENCHE	Operated by	S .Nishlo
Photo Signal Type	Pricking	Date of Observation	7-Apr-2009	Inspected by	A. Nishimura
Consilinata	2 UTM 26	Horizontal Coor	rdinates (m)	Ortho H	elght (m)
Coordinate	Zone: UTM 36	Easting (E)	Northing (N)	Pillar Point Ground Hel	
we	9S-84	577,094 Handy GPS	8,446,886 Handy GPs	-1.80	
Clarke 188	0 (Modified)	577,069.821	8,447,205.697	1,098.900	1,097.100
	Surrounding Site	Photo A	Surro	unding Site Photo B	
		Position on	QB Images		

Google

Notes:

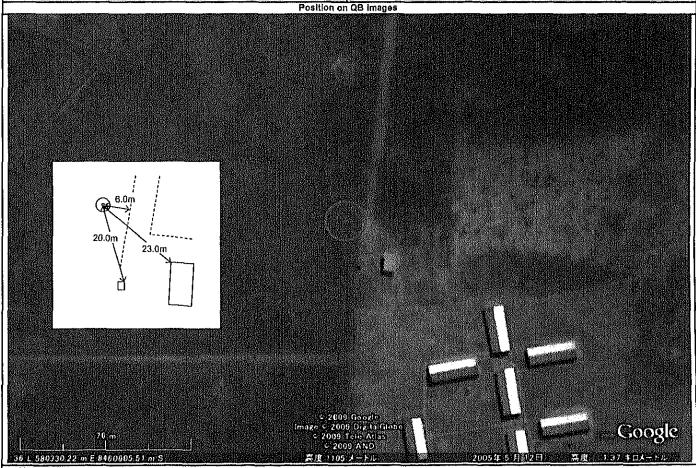
,			
		·	
		·	

## **Descriptions for Ground Control Point**

					LCA/ DOS/ JICÀ	
Point No.	135/ MWT	Point Name	МКОМАСНІ	Operated by	S .Nishlo	
Photo Signal Type	Pricking	Date of Observation	7-Apr-2009	Inspected by	A. Nishimura	
		Horizontal Coo	rdinates (m)	(m) Ortho Helg		
Coordinate	Zone: UTM 36	Easting (E)	Northing (N)	Pillar Point	Ground Height	
WGS-84		580,309 Handy GPS	8,460,608 Handy GPS		-1.70	
Clarke 1880 (Modified)		580,285.010	8,460,928.355	1,110.300	1,108.600	
Surrounding Site Photo A			Surrounding Site Photo B			
Tables Tables Tables Tables						







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