

## **1:100,000 Map Manuscript**

CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/100,000 SCALE MANUSCRIPT

Sheet No. 4345

Checked by K. Usuta

Date: Dec 24 / 04

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M
<b>Inhabited Areas</b>	Symbolized building Buildings expressed at true scale	21001		Transmission lines (hidden lines)	22201			<b>Vegetations and Soils</b>	Herbal plants/point		611603
	Symbolized ruin	21001		Power transmission lines (with wooden towers)	22202				Roads and other species bushes		611701
	Ruins expressed at true scale	21001		Power transmission lines (hidden lines)	22203				Marshes/only to be used 1/25,000 scale map		611801
	Yurt, cham	210501		Power transmission lines with metal towers	22204				Marshes		611802
	Fire proofing building	210601		Light fence for national, agricultural and archaeological objects	222401				Marshes		611803
	Non-fire proofing building	210701		Boundaries of arable lands	222402				Steppe plants		611901
	Sparsely built-up areas	210901		Vegetation and soil	222601				Semi-shrubs		611902
	Newly constructing areas	211001		Railways	310101				Steppe plants		611903
	Newly constructing areas	211101		Railway stations	310201				Semi-shrubs		611904
	Destroyed half-destroyed blocks	211201		Block posts and clear posts	310301				Passable swamps		612001
	Plains, tundra and mulls without chimney	220101		Logging and unloading sites	310401				Passable swamps		612002
	Plains, tundra and mulls without chimney expressed at true scale	220102		Blind alley of branch lines	310501				Passable solonchak		612101
	Plains, tundra and mulls with chimney	220103		Branch lines	310502				Surfaces with hills		612201
	Area of plants, factories and mills	220104		Culvert	310601				Hilly surfaces		612301
	Chimneys	220105		Embankments	310701				Stony dispersions and angular stone surfaces		612401
	Pit mounds of shafts and drifels in operation	220201		Cuttings	310801				Stony surfaces/point		612402
	Pit mounds of shafts and drifels out of operation	220202		Automotive roads with improved pavement	320101				Stony surfaces		612403
	Open-cast mining areas	220301		Automotive roads with pavement	320201				Stony surfaces/point		612404
	Open-cast mining areas	220302		Automotive roads without pavement	320301				Conglomerate and gravel surfaces		612501
	Fuel and gas tanks	220401		Wide streets in the built-up areas	320302				Stony flats		612601
	Area of fuel and gas tanks	220402		Narrow streets in the built-up areas	320303				National boundaries		710101
	Oil supply towers and gas stations	220501		Roadside blank space	320504				Boundaries of Autonomous S.S.R. Districts and regions		710201
	Power stations(hydroelectric, thermal)	220601		Earthen country road	320401				Boundaries of national preserves		710301
	Power transmission stations	220701		Field and forestry roads	320501						
	Power transmission stations	220702		Foot paths	320601						
	Power transmission stations	220703		Foot bridges	320701						
	Radio stations and television centers	220801		Roads under-construction	320801						
	Telephone, radio and cable relay masts	220901		Embankments and cuttings	320901						
	Airports on land water	221001		Parking areas	321101						
	Main tower-type architectures	221101		Parking areas expressed to true scale	321102						
	Simple towers	221201		Boundary points between different reserves	321301						
	The ironhouse, hothod	221301		Water lines of dam, river, lake and reservoirs	410101						
	Area of ironhouse, hothod	221302		Coastal sand banks and shoals	410201						
	Livestock enclosures (minimum size)	221401		Criffly and rocky shores	410301						
	Livestock enclosures (actual size)	2213402		Permanent river and streams (less than 5m wide)	410401						
	Telegraph, radiotelegraph stations and branches, telephone exchanges	221501		Permanent rivers and streams (from 5 to 30m wide)	410402						
	Meteoological stations	221601		Permanent rivers and streams (more than 30m wide)	410403						
	Churches	221701		Hidden lines on rivers passing through banks	410404						
	Mosques	221801		Hidden lines on rivers passing through banks and streams (single line)	410405						
	Mazary, suburban, obo	221901		Dried up rivers and streams (double lines)	410501						
	Remarkable monuments and statues	222001		Waterfalls expressed to true scale	410601						
	Cemeteries (minimum size)	221201		Waterfalls/minimum	410602						
	Cemeteries (actual size)	221202									
	Gravestone (point)	221203									
<b>Industry, Agriculture and Socio-cultural Field Objects</b>				<b>Relief</b>				<b>Vegetations and Soils</b>			
				Elevations of shorelines	410701			Moraines	511401		
				Arrows showing direction of river streams	410801			Debris flows	511501		
				Velocity value of flow/text	410802			Prescriptions and rock walls/upper line	511701		
				Velocity value of flow (hidden line)	410803			Prescriptions and rock walls/lower line	511702		
				Characteristics of rivers and canals (true scale)	410901			Prescriptions and rock walls/lower line	511799		
				Characteristics of river and canals (minimum)	410902			Boundaries of firn fields	511801		
				Water gauges and tide gauges	411001			Turf-thanked terraces	511999		
				Canals and ditches (less than 3m wide)	411101			Ice scarps /upper line	512001		
				Canals and ditches (more than 3m wide)	411102			Ice scarps /lower line	512002		
				Canals and ditches (more than 10m wide)	411103			Ice scarps /ports	512099		
				Irrigation canals (ditches)	411201			Ice scarps /minimum	512101		
				Water supplying facilities	411301			Classic sediments of hard strata (polygon)	512201		
				Water supplying facilities	411302			Classic sediments of hard strata (line)	512301		
				Dried up ditches (single line)	411401			Classic sediments of hard strata (pentagon)	512399		
				Dried up ditches (double line)	411402			Land slides/upper line	512401		
				Fords expressed to true scale	411501			Land slides/lower line	512402		
				Bridges crossing small obstacles and fords (actual size in English)	411601			Canyons and gullies/vertical line	512501		
				Bridges crossing small obstacles and fords (minimum)	411602			Canyons and gullies/horizontal line	512502		
				Bridges and elevated bridges (minimum)	411701			Escarpments	512601		
				Quay	411801			Boundaries of vegetations and soils	610101		
				Impassable dam (to scale)	411802			Forests	610201		
				Embankments	411901			Dominant species trees in the forest /coniferous	610301		
				Embankments (minimum)	411902			Dominant species trees in the forest /deciduous	610302		
				Rivers, canals and ditches with embankments on one side and both	412001			Dominant species trees in the forest /mixed	610303		
				Water pipes on the ground	412101			Narrow forest belts and protective plantings	610401		
				Wells	412201			Isolated trees, non landmark trees	610501		
				Artesian wells and artesian deep-bored wells	412301			Forest stumps, macesies and saplings/less than 4m height	610601		
				Reservoirs and other water-storage f artificial	412401			Thin woods	610701		
				Fountainheads	412501			Shrubs/point	610801		
				Equipped fountainheads	412601			Shrubs/filled with color	610802		
				Moorage without mooring facilities	412701			Thorny bushes/point	610901		
				Moorage with mooring facilities	412801			Thorny bushes/filled with color and symbols	610902		
				Lighthouses	412901			Coniferous trees	611001		
				Dried river bank and dried up lake basin (double line)	510501			Broad leaf trees	611002		
				Dried river bank and dried up lake basin (filled with pattern)	510502			Narrow shrub belts and hedges	611101		
				Dried river bank and dried up lake basin (single line)	510503			Creeping shrubs/point	611201		
				Islands, peninsulas and peninsular point	510701			Creeping shrubs/filled with color and symbols	611202		
				Depressions/minimum	510801			Fruits and citrus gardens	611301		
				Depressions/actual scale	510802			Vineyards	611401		
				Barrows and hills/minimum	510901			Fruits and citrus gardens with vineyards	611402		
				Barrows and hills/actual scale	510902			Berry gardens	611501		
				Earthenness of natural and artificial firn fields and permanent snow patches	511101			Fruits-berry gardens	611502		
				Glacier (ragged)	511201			Herbal plants/polygon	611601		
				Glacier crevasses	511301			Herbal plants/polygon	611602		

Edge matching  
(+ =)  
4345 (4346)  
(4357)

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/100,000 SCALE MANUSCRIPT

Sheet No. 4346

Checked by K. Usata

Date: Dec 28 / 04

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M	
Industry, Agriculture and Socio-cultural Field Objects												
Inhabited Areas	21001			Transmission lines	22201			Elevations of levelines	41070			
Symbolized building	21001			Transmission lines (hidden line)	22202			Arrows showing direction of river streams	41080			
Buildings expressed at true scale	21001			Power transmission lines with wooden poles and reinforced poles	22230			Velocity value of flow	41082			
Symbolized run	21001			Power transmission lines (hidden line)	22231			Characteristics of rivers and canals (true scale)	41083			
Runs expressed at true scale	21040			Power transmission lines with metal towers	22240			Characteristics of river and canals (minimum)	41090			
Yurt, chum	21050			Power transmission lines (hidden line)	22241			Water gauges and tide gauges	41100			
Fire proofing building	21060			Power transmission lines (double line)	22242			Canals and ditches (less than 3m wide)	41110			
Non-fire proofing building	21070			Power transmission lines (triple line)	22243			Canals and ditches (more than 3m wide)	41120			
Sparsely built-up areas	21090			Power transmission lines (quadruple line)	22244			Cracks and ditches	41130			
Newly constructing areas	21100			Power transmission lines (with metal towers)	22260			Integration canals (ditches)	41140			
Newly constructing areas	21110			Power transmission lines (with steel towers)	22261			Water supplying facilities	41150			
Destroyed half-destroyed blocks	21200			Power transmission lines (with towers and poles)	22262			Water supplying facilities (for scale)	41160			
Plants, forests and mills without chimney	22001			Railways	31001			Dried up ditches (double lines)	41170			
Plants, forests and mills without chimney expressed at true scale	22002			Railway stations	31020			Fords expressed to true scale	41180			
Plants, forests and mills with chimney	22003			Block points and clear points	31050			Bridges consisting of small abutments and culverts (less than 5m in length)	41190			
Plants, factories and mills with chimney	22004			Loading and unloading sites	31040			Bridges crossing small obstacles and culverts (minimum)	41200			
Area of plains, factories and mills	22010			Blind alley of branch lines	31050			Bridges and elevated bridges (minimum)	41210			
Chimneys	22015			Branch lines	31052			Wells	41220			
Fit months of shafts and drills in previous periods	22020			Culvert	31060			Artesian wells and artesian deep-bored wells	41230			
Open-east mining areas	22030			Embankments	31070			Reservoirs and other water-storing facilities	41240			
Open-east mining areas	22030			Waterfalls	31080			Fountainheads	41250			
Fuel and gas tanks	22040			Autonomous roads with improved pavement	32001			Equipped fountainheads	41260			
Area of fuel and gas tanks	22042			Autonomous roads without pavement	32020			Moorage without mooring facilities	41270			
Oil supply towers and gas stations	22050			Autonomous roads with pavement	32030			Moorage with mooring facilities	41280			
Power stations (hydroelectric, diesel)	22060			Wide streets in the built-up areas	32030			Lighthouses	41290			
Power transmission stations	22070			Narrow streets in the built-up areas	32030			Dried river beds and dried up lake basins/ filled with pattern	51050			
Power transmission stations	22070			Roadside blank space	32034			Dried river beds and dried up lake basins/ single line	51052			
Area of power transmission stations	22073			Earthen country road	32040			Canals and ditches with pebbles and pebbles period	51070			
Radio stations and television centers	22080			Field and forestry roads	32050			Depressions/minimum	51080			
Television, radio and radio relay masts	22090			Foot paths	32060			Depressions/actual scale	51082			
Airports on land water	22100			Foot bridges	32070			Barrows and hills/minimum	51090			
Main tower-typed architectures	22110			Roads under-construction	32080			Barrows and hills/actual scale	51092			
Simple towers	22120			Parking areas	32090			Entrances of tunnel and artificial caves	51100			
The hobhouse, hobbed	22130			Parking areas expressed to true scale	32110			Firm fields and permanent snow patches	51110			
Area of hobhouse, hobbed	22132			Boundary points between different types of sea, rivers, lakes and reservoirs	32130			Glacier tongues	51120			
Levostock enclosures (minimum size)	22140			Waterfalls of sea, rivers, lakes and reservoirs	41010			Glacier crevasses	51130			
Levostock enclosures (actual size)	22142			Coastal sand banks and shoals	41020							
Telegraph, radiotelegraph stations and branches, telephone exchanges	22150			Griffy and rocky shores	41030							
Meteorological stations	22160			Permanent river and streams (less than 5m wide)	41040							
Churches	22170			Permanent rivers and streams (from 5 to 30m wide)	41042							
Mosques	22180			Permanent rivers and streams (more than 30m wide)	41043							
Mazary, shurgan, obo	22190			Conterlines of rivers	41044							
Remarkable monuments and sites	22200			Hidden lines on river posting	41045							
Ceneteries (minimum size)	22201			Dried up rivers and streams (single line)	41050							
Ceneteries (actual size)	22202			Dried up rivers and streams (double lines)	41052							
Gravestone (point)	22203			Waterfalls expressed to true scale	41060							
				Waterfalls/minimum	41062							

### Vegetations and Soils

Herbal plants/point	611603		
Beds and other species bushes	611701		
Muscles/only to be used 1/25,000 scale map	611801		
Muscles	611802		
Marshes	611803		
Steppe plants	611901		
Semi-shrubs	611902		
Steppe plants	611903		
Semi-shrubs	611904		
Passable swamps	612001		
Passable swamps	612002		
Passable solonchak	612101		
Surfaces with hills	612201		
Hilly surfaces	612301		
Stony dispersions and angular stony surfaces	612401		
Stony surfaces	612402		
Stony surfaces/point	612403		
Stony surfaces/point	612404		
Conglomerate and gravel surfaces	612501		
Stony flats	612601		

### Boundaries

National boundaries	710101		
Boundaries of Autonomous S.S.R.	710201		
Districts and regions			
Boundaries of national preserves	710301		

Edge matching  
(73)

(4345) - 4346 (4347)

(4358)

\* O → the number of omissions M → the number of misdescriptions

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/100,000 SCALE MANUSCRIPT

Sheet No. 4347

Checked by *Kellcyda*

Date: *Dec 28 / 04*

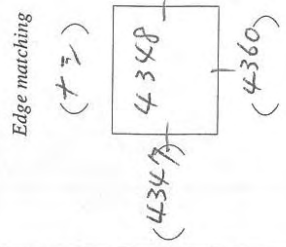
Item	Code	O	M	Item	Code	O	M	Item	Code	O	M	Item	Code	O	M
<b>Inhabited Areas</b>				<b>Industry, Agriculture and Socio-cultural Field Objects</b>				<b>Hydrography and its facilities</b>				<b>Vegetations and Soils</b>			
Symbolized building	210101			Transmission lines	222201			Elevations of shorelines	410701			Moraines	511401		
Buildings expressed at true scale	210201			Transmission lines (hidden line)	222202			Arrows showing direction of river streams	410801			Debris flows	511501		
Symbolized ruin	210301			Power transmission lines with wooden poles and reinforced poles	222301			Velocity value of flow	410802			Prospectives and rock walls/upper line	511701		
Ruins expressed at true scale	210401			Power transmission lines (hidden line)	222302			Velocity value of flow (true scale)	410803			Prospectives and rock walls/lower line	511702		
Yurt, chum	210501			Power transmission lines with metal and reinforced concrete poles (hidden line)	222401			Characteristics of rivers and canals (width, depth, discharge, etc.)	410901			Prospectives and rock walls/points	511799		
Fire proofing building	210601			Power transmission lines (hidden line)	222402			Characteristics of rivers and canals (width, depth, discharge, etc.) (actual)	410902			Boundaries of firm fields	511801		
Non-fire proofing building	210701			Stony, bricky walls and meiotic fences	222501			Water gauges and tide gauges	411001			Turf-banked terraces	511999		
Sparsely built-up areas	210801			Light fences for industrial, agricultural and socio-cultural objects	222601			Canals and ditches	411101			Ice scarps/upper line	512001		
Newly constructing areas	211001			Boundary of other areas except vegetation and soils	222602			Canals and ditches (form 3m to 10m wide)	411102			Ice scarps/lower line	512002		
Newly constructing areas	211101			Railways	310101			Canals and ditches (more than 10m wide)	411103			Ice scarps/points	512099		
Destroyed half-destroyed blocks	211201			Railway stations	310201			Irrigation canals (ditches)	411201			Ice scarps/minimum	512101		
Plains, forests and mills without chimney	220101			Block posts and clear posts	310301			Water supplying facilities	411301			Clastic sediments of fragile strata (polygon)	512201		
Plains, forests and mills without chimney expressed at true scale	220102			Loading and unloading sites	310401			Water supplying facilities (single line)	411302			Clastic sediments of hard strata	512301		
Plains, factories and mills with chimney	220103			Blind alley of branch lines	310501			Dried up ditches	411401			Clastic sediments of hard strata (pairs)	512302		
Area of plants, forests and mills	220104			Branch lines	310502			Dried up ditches (double lines)	411402			Land slides/upper line	512401		
Chimneys	220105			Chimney	310601			Fords expressed to true scale	411501			Land slides/lower line	512402		
Pyramids of shafts and shafts in operation	220201			Embankments	310701			Bridges crossing small obstacles and culverts (less than 3m in length)	411601			Clayons and gullies/vertical line	512501		
Pyramids of shafts and shafts out of operation	220202			Cuttings	310801			Bridges crossing small obstacles and culverts (more than 3m in length)	411602			Clayons and gullies/horizontal line	512502		
Open-cast mining areas	220301			Automotive roads with improved pavement	320101			Barrows (levelled ledges)	411701			Escarpments	512601		
Open-cast mining areas	220302			Automotive roads with pavement	320201			Quay	411801			Boundaries of vegetations and soils	610101		
Fuel and gas tanks	220401			Automotive roads without pavement	320301			Impassable dam	411802			Forests	610201		
Area of fuel and gas tanks	220402			Wide streets in the built-up areas	320302			Embankments (to scale)	411901			Dominant species trees in the forest	610301		
Oil supply towers and gas stations	220501			Narrow streets in the built-up areas	320303			Embankments (minimum)	411902			Dominant species trees in the forest (deciduous)	610302		
Power station (hydroelectric, thermal)	220601			Roadside blank space	320304			Embankments (one-side and both-side)	412001			Deciduous	610303		
Power transmission stations	220701			Earthen country road	320401			Water pipes on the ground	412101			Narrow forest belts and protective plantings	610401		
Power transmission stations	220702			Field and forestry roads	320501			Wells	412201			Isolated trees, non landmark trees	610501		
Area of power transmission stations	220703			Foot paths	320601			Artesian wells and artesian deepened wells	412301			Forest stumps, nurseries and saplings/less than 4m height	610601		
Radio stations and television centres	220801			Foot bridges	320701			Reservoirs and other water-storing facilities	412401			Thin woods	610701		
Television, radio and radio relay masts	220901			Roads under-construction	320801			Fountainheads	412501			Shrubs/point	610801		
Airports on land water	221001			Embankments and cuttings	320901			Equipped fountainheads	412601			Shrubs/field with color	610802		
Main tower-type architectures	221101			Parking areas	321101			Moorage without mooring facilities	412701			Thorny bushes/field with color and symbols	610901		
Simple towers	221201			Parking areas expressed to true scale	321102			Moorage with mooring facilities	412801			Coniferous trees	610902		
The bathhouse, hobbed	221301			Boundary points between different water lines of sea, rivers, lakes and reservoirs	321301			Lighthouse	412901			Broad leaf trees	611001		
Area of bathhouses, hobbed	221302			Coastal sand banks and shoals	410101			Dried river beds and dried up lake basins/ filled with pattern	510301			Narrow shrub belts and hedges	611101		
Livestock enclosures (minimum size)	221401			Criffy and rocky shores	410201			Dried river beds and dried up lake basins/ single line	510302			Creeping shrubs/point	611201		
Livestock enclosures (actual size)	221302			Permanent river and streams (less than 5m wide)	410401			Depressions/actual scale	510801			Openings shrubs/field with color and symbols	611202		
Telegraph, radiotelegraph stations and branches, telephone exchanges	221501			Permanent rivers and streams (more than 5m wide)	410402			Depressions/minimum	510802			Fruits and citrus gardens	611301		
Meteorological stations	221601			Contourlines of rivers	410404			Barrows and hills/minimum	510901			Fruits and citrus gardens with vineyards	611402		
Churches	221701			Hidden lines on rivers passing through built-up areas	410405			Barrows and hills/actual scale	510902			Berry gardens	611501		
Mosques	221801			Dried up rivers and streams (single line)	410501			Form fields and permanent snow patches	511101			Fruits-berry gardens	611502		
Mazary, suburgan, obo	221901			Dried up rivers and streams (double lines)	410502			Glacier tongues	511201			Herbal plants/polygon	611601		
Remarkable monuments and structures	222001			Waterfalls expressed to true scale	410601			Glacier crevasses	511301			Herbal plants/polygon	611602		
Cemeteries (minimum size)	221201			Waterfalls/minimum	410602										
Cemeteries (actual size)	221202														
Gravestones (point)	221203														

Edge matching  
(73)  
4346-4347-4348  
4349

\* O → the number of omissions M → the number of misdescriptions

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/100,000 SCALE MANUSCRIPT

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M						
Checked by <u>K. Usuda</u> Date: <u>Dec / 26 / 04</u>																	
Sheet No. <u>4348</u>																	
<b>Inhabited Areas</b>				<b>Socio-cultural Field Objects</b> Industry, Agriculture and Railways				<b>Hydrography and its facilities</b>				<b>Vegetations and Soils</b>					
Symbolized building	210101			Transmission lines	222201			Elevations of shorelines	410701			Moraines	511401			Herbal plants/point	611603
Buildings expressed at true scale	210201			Transmission lines (hidden line)	222202			Arrows showing direction of river streams	410801			Debris flows	511501			Reeds and other aquatic bushes	611701
Symbolized run	210301			Power transmission lines with wooden poles and reinforced poles (hidden line)	222301			Velocity value of flowtext	410802			Prescriptions and rock walls/upper line	511701			Marshes/only to be used 1/25,000 scale map	611801
Runs expressed at true scale	210401			Power transmission lines (hidden line)	222302			Velocity value of flow	410803			Prescriptions and rock walls/lower line	511702			Marshes	611802
Yurt, chum	210501			Power transmission lines with metal poles and reinforced concrete poles (hidden line)	222401			Characteristics of rivers and canals	410901			Prescriptions and rock walls/upper line	511799			Marshes	611803
Fire proofing building	210601			Power transmission lines (hidden line)	222402			Characteristics of river and canals (minimum)	410902			Boundaries of firm fields	511801			Steppe plants	611901
Non-fire proofing building	210701			Stony, brickly walls and masonry fences	222501			Water gauges and tide gauges	411001			Turf-thatched terraces	511999			Semi-shrubs	611902
Sparsely built-up areas	210901			Light fences for industrial, agricultural and social-cultural objects	222601			Canals and ditches (less than 10m wide)	411101			Ice scamps/upper line	512001			Steppe plants	611903
Newly constructing areas	211001			Boundary of other areas except vegetation and soils	222602			Canals and ditches (from 10 to 10m wide)	411102			Ice scamps/lower line	512002			Semi-shrubs	611904
Newly constructing areas	211101			Railways	310101			Canals and ditches (more than 10m wide)	411103			Ice scamps/points	512099			Passable swamps	612001
Destroyed, half-destroyed blocks	211201			Railway stations	310201			Integration canals (ditches)	411201			Ice scamps/minimum	512101			Passable swamps	612002
Plains, fescovee and muls - without chimney	220101			Block points and clear points	310301			Water supplying facilities	411301			Clastic sediments of hard areas (polygon)	512201			Passable solonchak	612101
Plains, fescovee and muls - without chimney expressed at true scale	220102			Loading and unloading sites	310401			Dried-up ditches (single line)	411302			Clastic sediments of hard areas (line)	512302			Surfaces with hills	612201
Plains, fescovee and muls with chimney	220103			Blind alley of branch lines	310501			Dried-up ditches (double lines)	411401			Clastic sediments of hard areas (point)	512399			Hilly surfaces	612301
Area of plains, fescovee and muls	220104			Branch lines	310502			Fords expressed to true scale	411402			Land slides/upper line	512401			Stony depressions and sagar	612401
Chimneys	220105			Chivert	310601			Bridges crossing small obstacles and culverts (less than 3m in length)	411501			Land slides/lower line	512402			Stony surfaces	612402
Pls possible of shafts and dells in operation	220201			Embankments	310701			Bridges crossing small obstacles and culverts (more than 3m in length)	411601			Canyons and gullies/vertical line	512501			Stony surfaces/point	612403
Pls possible of shafts and dells out of operation	220202			Cuttings	310801			Bridges and elevated bridges (restoration)	411602			Canyons and gullies/horizontal line	512502			Conglomerate and gravel surfaces	612404
Open-cast mining areas	220301			Automotive roads with improved pavement	320101			Quay	411701			Escarpments	512601			Stony flats	612601
Open-cast mining areas	220302			Automotive roads with pavement	320201			Impassable dam (to scale)	411802			Boundaries of vegetation and soils	610101			National boundaries	710101
Fuel and gas tanks	220401			Automotive roads without pavement	320301			Embankments (to scale)	411901			Dominant species trees in the forest /coniferous	610201			Boundaries of Autonomous S.S.R.	710201
Area of fuel and gas tanks	220402			Wide streets in the built-up areas	320302			Embankments	411902			Dominant species trees in the forest /deciduous	610301			Boundaries of national preserves	710301
Oil supply towers and gas stations	220501			Narrow streets in the built-up areas	320303			Reservoirs	412001			Dominant species trees in the forest /mixed	610302				
Power stations (hydroelectric, thermal)	220601			Roadside blank space	320304			Water pipes on the ground	412101			Narrow forest belts and protective plantings	610303				
Power transmission stations	220701			Earthen country road	320401			Wells	412201			Isolated trees, non landmark trees	610401				
Power transmission stations	220702			Field and forestry roads	320501			Artesian wells and artesian deep-bored wells	412301			Forest stamps, nurseries and saplings/less than 4m height	610501				
Area of power transmission stations	220703			Foot paths	320601			Reservoirs and other water-storing facilities	412401			Thin woods	610601				
Radio stations and television centers	220801			Foot bridges	320701			Fountainheads	412501			Shrubs/point	610801				
Television, radio and radio relay masts	220901			Roads under-construction	320801			Equipped fountainheads	412601			Shrubs/point	610802				
Airports on land water	221001			Embankments and cuttings	320901			Moorage without mooring facilities	412701			Shrubs/point	610901				
Main tower-typed architectures	221101			Parking areas	321101			Moorage with mooring facilities	412702			Shrubs/point	610902				
Television, radio and radio relay masts	221201			Parking areas expressed to true scale	321102			Lighthouses	412901			Thorny bushes/point	610903				
Simple towers	221301			Boundary points between different zones	321301			Dried river beds and dried up lake basins/double lines	510501			Thorny bushes/point	610904				
The hothouse, hothed	221301			Water lines of sea, rivers, lakes and reservoirs	410101			Dried river beds and dried up lake basins/ filled with pattern	510502			Coniferous trees	611001				
Area of hothouse, hothed	221302			Coastal sand banks and shoals	410201			Dried river beds and dried up lake basins/ filled with pattern (less than 5m wide)	510503			Broad leaf trees	611002				
Livestock enclosures (minimum size)	221401			Griffy and rocky shores	410301			Passes, clear alludes and practicable period	510701			Narrow shrub belts and hedges	611101				
Livestock enclosures (actual size)	221402			Permanent river and streams (less than 5m wide)	410401			Depressions/minimum	510801			Creeping shrubs/point	611201				
Telegraph, radio, telegraph stations and facilities, telephone exchanges	221501			Permanent river and streams (more than 5m wide)	410402			Depressions/actual scale	510802			Creeping shrubs/point	611202				
Meteorological stations	221601			Hidden lines on rivers passing through lands	410403			Barrows and hills/minimum	510901			Fruits and citrus gardens	611301				
Churches	221701			Dried up rivers and streams (single line)	410501			Barrows and hills/actual scale	510902			Fruits and citrus gardens	611401				
Mosques	221801			Dried up rivers and streams (double lines)	410502			Enclosures of natural and artificial caves	511001			Fruits and citrus gardens	611402				
Masonry, stiburgart, obo	221901			Waterfalls expressed to true scale	410601			Firn fields and permanent snow patches	511101			Berry gardens	611501				
Remarkable monuments and status	222001			Waterfalls/minimum	410602			Glacier tongues	511201			Fruits-berry gardens	611502				
Cemeteries (minimum size)	221201							Glacier crevasses	511301			Herbal plants/polygon	611601				
Cemeteries (actual size)	221202											Herbal plants/polygon	611602				
Gravestone (point)	222103																



\* O → the number of omissions M → the number of misdescriptions

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/100,000 SCALE MANUSCRIPT

Date: Dec / 24 / 04

Checked by K. L. Syder

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M
<b>Inhabited Areas</b>	21001			<b>Symboleized building</b>	410701			<b>Herbal plants/point</b>	611603		
Buildings expressed at true scale	210201			Arrows showing direction of river streams	410801			Moraines	511401		
Symboleized ruin	210301			Velocity of flow	410802			Debris flows	511501		
Ruins expressed at true scale	210401			Velocity value of flow (true scale)	410901			Precipices and rock wall/upper line	511701		
Yurt, chum	210501			Characteristics of rivers and canals (minimum)	410902			Precipices and rock wall/lower line	511702		
Fire proofing building	210601			Water gauges and tide gauges	411001			Precipice and rock wall/part	511799		
Non-fire proofing building	210701			Canals and ditches (less than 10m wide)	411101			Boundaries of firm fields	511801		
Sparsely built-up areas	210901			Canals and ditches (more than 10m wide)	411102			Turf-banked terraces	511999		
Newly constructing areas	211001			Irrigation canals (ditches)	411103			Ice scarps /upper line	512001		
				Water supplying facilities	411201			Ice scarps /lower line	512009		
<b>Socio-cultural Field Objects</b>				Water supply/drainage facilities	411301			Passable swamps	612001		
<b>Industry, Agriculture and</b>				Dred up ditches (double lines)	411401			Passable solonchak	612101		
<b>Transmission lines</b>	22201			Fords expressed to true scale	411501			Surfaces with hills	612201		
Transmission lines (hidden line)	22202			Bridges crossing small obstacles and culverts (less than 1m in length)	411601			Hilly surfaces	612301		
Power transmission lines with wooden poles and reinforced concrete poles (hidden line)	222301			Bridges crossing small obstacles and culverts (minimum)	411602			Stony dispersions and angular stone surfaces	612401		
Power transmission lines (hidden line)	222401			Bridges and elevated bridges (minimum)	411701			Stony surfaces	612402		
Power transmission lines with metal poles and reinforced concrete poles (hidden line)	222402			Quay	411801			Stony surfaces/point	612403		
Step, rocky walls and vertical fences	222501			Impassable dam	411802			Stony surfaces/point	612404		
Light fences for pavement, asphalt and concrete (hidden line)	222601			Embankments	411901			Conglomerate and gravel surfaces	612501		
Boundary of other areas except vegetation and soils	222602			Embankments (minimum)	411902			Study flats	612601		
<b>Railways</b>	310101			Embankments (maximum)	411903			<b>Vegetation and Soils</b>			
Railway stations	310201			Roadside blank space	420304			<b>Relite</b>			
Block posts and clear posts	310301			Earthen country road	320401			<b>Hydrography and its facilities</b>			
Loading and unloading sites	310401			Field and forestry roads	320501			<b>Vegetation and Soils</b>			
Blind alley of branch lines	310501			Foot paths	320601			<b>Relite</b>			
Branch lines	310602			Foot bridges	320701			<b>Hydrography and its facilities</b>			
Culvert	310601			Roads under-construction	320801			<b>Vegetation and Soils</b>			
Embankments	310701			Embankments and cuttings	320901			<b>Relite</b>			
Cuttings	310801			Parking areas	321101			<b>Hydrography and its facilities</b>			
Assessive roads with improved pavement	320101			Parking areas expressed to true scale	321102			<b>Vegetation and Soils</b>			
Automotive roads with pavement	320201			Boundary points between different pavings	321301			<b>Relite</b>			
Automotive roads without pavement	320301			Water lines of can, rivers, locks and reservoirs	410101			<b>Hydrography and its facilities</b>			
Wide areas in the built-up areas	320302			Coastal sand banks and shoals	410201			<b>Vegetation and Soils</b>			
Narrow areas in the built-up areas	320303			Curry and rocky shores	410301			<b>Relite</b>			
Roadside blank space	320304			Permanent river and streams	410401			<b>Hydrography and its facilities</b>			
Earthen country road	320401			Permanent river and streams (from 5 to 30m wide)	410402			<b>Vegetation and Soils</b>			
Field and forestry roads	320501			Permanent river and streams (more than 30m wide)	410403			<b>Relite</b>			
Foot paths	320601			Centerlines of rivers	410404			<b>Hydrography and its facilities</b>			
Foot bridges	320701			Hidden lines on rivers passing through banks	410405			<b>Vegetation and Soils</b>			
Roads under-construction	320801			Dried up rivers and streams (double lines)	410501			<b>Relite</b>			
Embankments and cuttings	320901			Waterfalls expressed to true scale	410601			<b>Hydrography and its facilities</b>			
Parking areas	321101			Waterfalls/minimum	410602			<b>Vegetation and Soils</b>			
Parking areas expressed to true scale	321102							<b>Relite</b>			
Boundary points between different pavings	321301							<b>Hydrography and its facilities</b>			
Water lines of can, rivers, locks and reservoirs	410101							<b>Vegetation and Soils</b>			
Coastal sand banks and shoals	410201							<b>Relite</b>			
Curry and rocky shores	410301							<b>Hydrography and its facilities</b>			
Permanent river and streams	410401							<b>Vegetation and Soils</b>			
Permanent river and streams (from 5 to 30m wide)	410402							<b>Relite</b>			
Permanent river and streams (more than 30m wide)	410403							<b>Hydrography and its facilities</b>			
Centerlines of rivers	410404							<b>Vegetation and Soils</b>			
Hidden lines on rivers passing through banks	410405							<b>Relite</b>			
Dried up rivers and streams (double lines)	410501							<b>Hydrography and its facilities</b>			
Waterfalls expressed to true scale	410601							<b>Vegetation and Soils</b>			
Waterfalls/minimum	410602							<b>Relite</b>			

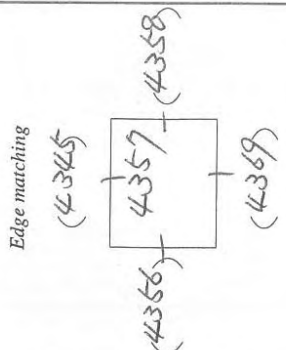
\* O → the number of omissions M → the number of misdescriptions

Edge matching  
(+ =)  
4358 (4355)  
4368 (4368)

# CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/100,000 SCALE MANUSCRIPT

Sheet No. 4357  
 Checked by K. Usuda  
 Date: Dec / 28 / 04

Item	Code	O	M	Item	Code	O	M	Item	Code	O	M
<b>Inhabited Areas</b>				<b>Industry, Agriculture and Socio-cultural Field Objects</b>				<b>Vegetations and Soils</b>			
Symbolized building	210101			Transmission lines	22201			Miraines	511401		
Buildings expressed at true scale	210201			Transmission lines (hidden line)	22202			Debris flows	511501		
Symbolized ruin	210301			Power transmission lines with wooden poles and reinforced poles	222301			Arrows showing direction of river streams	511701		
Ruins expressed at true scale	210401			Power transmission lines (hidden line)	222302			Velocity value of flow/est	511702		
Yurt, chum	210501			Power transmission lines with metal poles and reinforced poles	222401			Precipice and rock walls/lower line	511799		
Fire proofing building	210601			Power transmission lines (hidden line)	222402			Precipices and rock walls/upper line	511999		
Non-fire proofing building	210701			Shanty, tenky walls and metallic fences	222501			Boundaries of firm fields	511801		
Sparsely built-up areas	210901			Light fences for individual agricultural and social-estate edge objects	222601			Turf-thatched terraces	511902		
Newly constructing areas	211001			Boundary of other areas except vegetations and soils	222602			Ice scarps / upper line	512001		
Newly constructing areas	211101							Ice scarps / lower line	512002		
Destroyed half-destroyed blocks	211201			<b>Railways</b>	310101			Ice scarps / parts	512099		
Plants, factories and mills without chimney	220101			Railway stations	310201			Ice scarps / minimum	512101		
Plants, factories and mills without chimney expressed at true scale	220202			Block posts and clear posts	310301			Clastic sediments of fragile strata (polygon)	512201		
Plants, factories and mills with chimney	220303			Loading and unloading sites	310401			Clastic sediments of hard strata	512201		
Area of plants, factories and mills	220104			Blind alley of branch lines	310501			Clastic sediments of hard strata (single line)	512302		
Chimneys	220105			Branch lines	310502			Clastic sediments of hard strata (double line)	512399		
Per month of shafts and drifts in the month of shafts and drifts out of operation	220201			Culvert	310601			Land slides/upper line	512401		
Open-cast mining areas	220301			Embankments	310701			Land slides/lower line	512402		
Open-cast mining areas	220302			Cuttings	310801			Canyons and gullies/vertical line	512501		
Fuel and gas tanks	220401			Automotive roads with improved pavement	320101			Canyons and gullies/horizontal line	512502		
Area of fuel and gas tanks	220402			Automotive roads with pavement	320201			Escarpments	512601		
Oil supply towers and gas stations	220501			Automotive roads without pavement	320301			Boundaries of vegetations and soils	610101		
Power stations(hydroelectric, thermal)	220601			Wide streets in the built-up areas	320302			Forests	610201		
Power transmission stations	220701			Narrow streets in the built-up areas	320303			Dominant species trees in the forest	610301		
Power transmission stations	220702			Roadside blank space	320304			Dominant species trees in the forest (deciduous)	610302		
Power transmission stations	220703			Earthen country road	320401			Narrow forest belts and protective plantings	610303		
Radio stations and television centers	220801			Field and forestry roads	320501			Isolated trees, non landmark trees	610401		
Television, radio and radio-relay masts	220901			Foot paths	320601			Forest swamps, tarriettes and saplings/less than 4m height	610501		
Airports on land water	221001			Foot bridges	320701			Thin woods	610601		
Main tower-typed architectures	221101			Roads under construction	320801			Shrubs/point	610701		
Simple towers	221201			Embankments and cuttings	320901			Shrubs/point with color	610801		
The hobhouse, hobbed	221301			Parking areas	321101			Shrubs/point with color	610802		
Area of hobhouse, hobbed	221302			Parking areas expressed to true scale	321102			Theory bushes/point	610901		
Livestock enclosures (minimum size)	221401			Boundary posts between adjacent pastures	321202			Theory bushes/point with color and arabesque	610902		
Livestock enclosures (actual size)	221302			Coastal sand banks and shoals	410101			Coniferous trees	611001		
Telegraph, radiotelegraph stations and branches, telephone exchanges	221501			Criffy and rocky shores	410201			Broad leaf trees	611002		
Metronological stations	221601			Permanent river and streams (less than 5m wide)	410301			Narrow shrub belts and hedges	611101		
Churches	221701			Permanent rivers and streams (from 5 to 10m wide)	410401			Creeping shrubs/point	611201		
Mosques	221801			Permanent river and streams (more than 10m wide)	410402			Creeping shrubs/point with color and arabesque	611202		
Mazary, suburgan, obo	221901			Centrifuges of rivers	410403			Fruits and citrus gardens	611301		
Remarkable monuments and statues	222001			Hidden lines on rivers passing through bank	410404			Vineyards	611401		
Comerietes (minimum size)	221201			Permanent rivers and streams (double lines)	410405			Fruits and citrus gardens with vineyards	611402		
Comerietes (actual size)	221202			Dried up rivers and streams	410501			Berry gardens	611501		
Gravestone (point)	222103			Waterfalls expressed to true scale	410502			Fruits-berry gardens	611502		
				Waterfalls/minimum	410602			Herbal plants/polygon	611601		
								Herbal plants/polygon	611602		
				<b>Roads</b>				<b>Vegetations and Soils</b>			
				Impassable dam	411802			Boundaries of vegetations and soils	610101		
				Embankments	411901			Forests	610201		
				(to scale)	411902			Dominant species trees in the forest	610301		
				Rivers, canals and ditches with embankments on one side and both embankments on one side and both	412001			Dominant species trees in the forest (deciduous)	610302		
				Water pipes on the ground	412101			Narrow forest belts and protective plantings	610303		
				Wells	412201			Isolated trees, non landmark trees	610401		
				Artesian wells and artesian deep-bored wells	412301			Forest swamps, tarriettes and saplings/less than 4m height	610501		
				Reservoirs and other water-storage facilities	412401			Thin woods	610601		
				Fountainheads	412501			Shrubs/point	610701		
				Equipped fountainheads	412601			Shrubs/point with color	610801		
				Moorage without mooring facilities	412701			Shrubs/point with color	610802		
				Moorage with mooring facilities	412801			Theory bushes/point	610901		
				Lighthouses	412901			Theory bushes/point with color and arabesque	610902		
				Dried river beds and dried up lake basins/ double lines	510501			Coniferous trees	611001		
				Dried river beds and dried up lake basins/ filled with pebbles	510502			Broad leaf trees	611002		
				Dried river beds and dried up lake basins/ single line	510503			Narrow shrub belts and hedges	611101		
				Passes, their arboreal and practicable period	510701			Creeping shrubs/point	611201		
				Depressions/minimum	510801			Creeping shrubs/point with color and arabesque	611202		
				Depressions/actual scale	510802			Fruits and citrus gardens	611301		
				Barrows and hills/minimum	510901			Vineyards	611401		
				Barrows and hills/actual scale	510902			Fruits and citrus gardens with vineyards	611402		
				Entrances of natural and artificial passages	511001			Berry gardens	611501		
				Dried up rivers and streams (double lines)	511101			Fruits-berry gardens	611502		
				Glacier tongues	511201			Herbal plants/polygon	611601		
				Glacier crevasses	511301			Herbal plants/polygon	611602		
								<b>Boundaries</b>			
								National boundaries	710101		
								Boundaries of Autonomous S.S.R. Districts and regions	710201		
								Boundaries of national preserves	710301		



\* O → the number of omissions M → the number of misdescriptions