

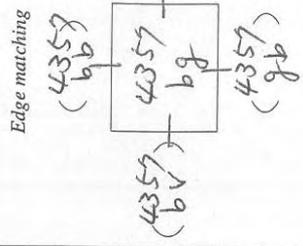
CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

Sheet No. 4357 bg

Checked by K. Usuba

Date: Dec / 23 / 04

| Inhabited Areas | Industry, Agriculture and Socio-cultural Field Objects | Hydrography and its facilities | Vegetations and Soils |
|---|---|--|---|
| Code | Code | Code | Code |
| O | O | O | O |
| M | M | M | M |
| 210101 | 222021 | 410701 | 511401 |
| Symbolized building | Transmission lines | Elevations of shorelines | Moraines |
| Buildings expressed at true scale | Transmission lines (hidden line) | Arrows showing direction of river streams | Herbal plants/point |
| 210201 | 222202 | 410801 | 611603 |
| Buildings expressed at true scale | Transmission lines (hidden line) | Arrows showing direction of river streams | Herbal plants/point |
| 210301 | 222301 | 410802 | 611701 |
| Symbolized ruin | Power transmission lines with wooden poles and reinforced poles | Velocity value of flow-text | Marshes/only to be used 1/25,000 scale map |
| 210401 | 222302 | 410803 | 611801 |
| Ruins expressed at true scale | Power transmission lines | Velocity value of flow | Marshes |
| 210501 | 222401 | 410901 | 611802 |
| Yurt, chum | Power transmission lines with metal poles and reinforced concrete poles | Characteristics of rivers and canals (minimum) | Marshes |
| 210601 | 222402 | 410902 | 611803 |
| Fire proofing building | Power transmission lines (hidden line) | Characteristics of river and canals (minimum) | Marshes |
| 210701 | 222501 | 411001 | 611901 |
| Non-fire proofing building | Light lines for industrial, agricultural and social-cultural object objects | Water gauges and tide gauges | Steppe plants |
| 210901 | 222601 | 411101 | 611902 |
| Sparsely built-up areas | Boundary of other areas except vegetation and soils | Canals and ditches (less than 3m wide) | Scrub-shrubs |
| 211001 | 222602 | 411102 | 611903 |
| Newly constructing areas | Railways | Canals and ditches (from 3m to 10m wide) | Steppe plants |
| 211101 | 310101 | 411103 | 612001 |
| Newly constructing areas | Railways | Canals and ditches (more than 10m wide) | Scrub-shrubs |
| 212101 | 310201 | 411201 | 612002 |
| Destroyed half-destroyed blocks | Railway stations | Irrigation canals (ditches) | Passable swamps |
| 220101 | 310301 | 411301 | 612002 |
| Plants, factories and mills without chimney | Block posts and clear posts | Water supplying facilities | Passable swamps |
| 220102 | 310401 | 411302 | 612101 |
| Plants, factories and mills without chimney expressed at true scale | Loding and unloading sites | Water supplying facilities | Passable solonchak |
| 220103 | 310501 | 411401 | 612201 |
| Plants, factories and mills with chimney | Blind alley of branch lines | Dred up ditches (single line) | Surfaces with hills |
| 220104 | 310502 | 411402 | 612301 |
| Plants, factories and mills | Branch lines | Dred up ditches (double lines) | Hilly surfaces |
| 220105 | 310601 | 411501 | 612401 |
| Chimneys | Culvert | Fords expressed to true scale | Stony depressions and angular stone surfaces |
| 220201 | 310701 | 411601 | 612402 |
| Py mounds of shafts and drills in operation | Embankments | Bridges crossing small obstacles and culverts (less than 3m in length) | Stony surfaces |
| 220202 | 310801 | 411602 | 612403 |
| Py mounds of shafts and drills out of operation | Cuttings | Bridges crossing small obstacles and culverts (more than 3m in length) | Stony surfaces/point |
| 220301 | 320101 | 411701 | 612404 |
| Open-exist mining areas | Automotive roads with improved pavement | Bridges and elevated bridges (rainman) | Conglomerate and gravel surfaces |
| 220302 | 320201 | 411801 | 612501 |
| Open-exist mining areas | Automotive roads with pavement | Quay | Study lists |
| 220401 | 320301 | 411802 | 710101 |
| Fuel and gas tanks | Automotive roads without pavement | Impassable dam | National boundaries |
| 220402 | 320302 | 411901 | 710201 |
| Area of fuel and gas tanks | Wide access in the built-up areas | Embankments (to scale) | Boundaries of Autonomous S.S.R. Districts and regions |
| 220501 | 320303 | 411902 | 710301 |
| Oil supply towers and gas stations | Narrow access in the built-up areas | Embankments | Boundaries of national preserves |
| 220601 | 320304 | 412001 | |
| Power stations(hydroelectric, thermal) | Roadside blank space | Rivers, canals and ditches with embankments on one side and both | |
| 220701 | 320401 | 412101 | |
| Power transmission stations | Earthen country road | Water pipes on the ground | |
| 220702 | 320501 | 412201 | |
| Area of power transmission stations | Field and forestry roads | Wells | |
| 220801 | 320601 | 412301 | |
| Radio stations and television centers | Foot paths | Artesian wells and artesian deep-bored wells | |
| 220901 | 320701 | 412401 | |
| Television, radio and radio relay masts | Foot bridges | Reservoirs and other water-storage facilities | |
| 221001 | 320801 | 412501 | |
| Airports on land water | Roads under-construction | Fountainheads | |
| 221101 | 320901 | 412601 | |
| Main tower-typed architectures | Embankments and cuttings | Equipped fountainheads | |
| 221201 | 321101 | 412701 | |
| Simple towers | Parking areas | Moorage without mowing facilities | |
| 221301 | 321102 | 412801 | |
| The bobhouse, beehive | Parking areas expressed to true scale | Moorage with mowing facilities | |
| 221302 | 321201 | 412901 | |
| Area of bobhouse, beehive | Boundary points between different purposes | Lighthouses | |
| 221401 | 410101 | 510501 | |
| Livestock enclosures (minimum size) | Water lines of sea, rivers, lakes and reservoirs | Dried river beds and dried up lake basins/double lines | |
| 221302 | 410201 | 510502 | |
| Livestock enclosures (actual size) | Coastal sand banks and shoals | Dried river beds and dried up lake basins/ filled with pattern | |
| 221501 | 410301 | 510503 | |
| Telegraph, radiotelegraph stations and benches, telephone exchanges | Criffy and rocky shores | Dried river beds and dried up lake basins/ filled with pattern (less than 5m wide) | |
| 221601 | 410401 | 510701 | |
| Meteorological stations | Permanent river and streams (less than 30m wide) | Passes, clear alluvials and predictable period | |
| 221701 | 410402 | 510801 | |
| Churches | Permanent river and streams (more than 30m wide) | Depressions/minimum | |
| 221801 | 410403 | 510802 | |
| Mosques | Centerlines of rivers through lands | Depressions/actual scale | |
| 221901 | 410404 | 510901 | |
| Masonry, subgrain, obo | Hidden lines on rivers passing through lands | Barrows and hills/minimum | |
| 222001 | 410405 | 510902 | |
| Remarkable monuments and statues | Dried up rivers and streams (single line) | Barrows and hills/actual scale | |
| 221201 | 410501 | 511001 | |
| Cemeteries (minimum size) | Dried up rivers and streams (double lines) | Entrances of natural and artificial caves | |
| 222102 | 410502 | 511101 | |
| Cemeteries (actual size) | Waterfalls expressed to true scale | Pine fields and permanent snow patches | |
| 222103 | 410601 | 511201 | |
| Gravestones (point) | Waterfalls/minimum | Glacier tongues | |
| | 410602 | 511301 | |
| | | Glacier crevasses | |



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

CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

| Item | Code | O | M | Item | Code | O | M | Item | Code | O | M |
|-----------------|-------|---|---|--|-------|---|---|---|--------|---|---|
| Inhabited Areas | 21001 | | | Symbolized building | 21001 | | | Herbal plants/point | 611803 | | |
| | 21020 | | | Buildings expressed at true scale | 21020 | | | Reeds and other species bushes | 611701 | | |
| | 21030 | | | Symbolized ruin | 21030 | | | Marshes/only to be used 1/25,000 scale map | 611801 | | |
| | 21040 | | | Ruins expressed at true scale | 21040 | | | Marshes | 611802 | | |
| | 21050 | | | Yurt, chum | 21050 | | | Marshes | 611803 | | |
| | 21060 | | | Fire proofing building | 21060 | | | Steppe plants | 611801 | | |
| | 21070 | | | Non-fire proofing building | 21070 | | | Semi-shrubs | 611902 | | |
| | 21080 | | | Sparsely built-up areas | 21080 | | | Steppe plants | 611903 | | |
| | 21100 | | | Newly constructing areas | 21100 | | | Semi-shrubs | 611904 | | |
| | 21110 | | | Newly constructing areas | 21110 | | | Passable swamps | 612001 | | |
| | 21120 | | | Destroyed half-destroyed blocks | 21120 | | | Passable swamps | 612002 | | |
| | 22010 | | | Plains, lacustrine and mts without chimney | 22010 | | | Passable solonchak | 612101 | | |
| | 22020 | | | Plains, lacustrine and mts without chimney expressed at true scale | 22020 | | | Surfaces with hills | 612201 | | |
| | 22030 | | | Plains, lacustrine and mts with chimney | 22030 | | | Hilly surfaces | 612301 | | |
| | 22040 | | | Area of plains, lacustrine and mts | 22040 | | | Sony depressions and saguar stone surfaces | 612401 | | |
| | 22050 | | | Chimneys | 22050 | | | Sony surfaces | 612402 | | |
| | 22060 | | | Plr mounds of shale and debris in operation | 22060 | | | Sony surfaces/point | 612403 | | |
| | 22070 | | | Plr mounds of shale and debris out of operation | 22070 | | | Sony surfaces/point | 612404 | | |
| | 22080 | | | Open-cast mining areas | 22080 | | | Conglomerate and gravel surfaces | 612501 | | |
| | 22090 | | | Open-cast mining areas | 22090 | | | Sony flats | 612601 | | |
| | 22100 | | | Open-cast mining areas | 22100 | | | National boundaries | 710101 | | |
| | 22110 | | | Fuel and gas tanks | 22110 | | | Boundaries of Autonomous S.S.R. Districts and regions | 710201 | | |
| | 22120 | | | Area of fuel and gas tanks | 22120 | | | Boundaries of national preserves | 710301 | | |
| | 22130 | | | Oil supply towers and gas stations | 22130 | | | | | | |
| | 22140 | | | Power stations (hydroelectric, thermal) | 22140 | | | | | | |
| | 22150 | | | Power transmission stations | 22150 | | | | | | |
| | 22160 | | | Power transmission stations | 22160 | | | | | | |
| | 22170 | | | Area of power transmission stations | 22170 | | | | | | |
| | 22180 | | | Radio stations and television centers | 22180 | | | | | | |
| | 22190 | | | Television, radio and radio relay masts | 22190 | | | | | | |
| | 22200 | | | Airports on land water | 22200 | | | | | | |
| | 22210 | | | Main tower-typed architectures | 22210 | | | | | | |
| | 22220 | | | Simple towers | 22220 | | | | | | |
| | 22230 | | | The hobnoses, hobbed | 22230 | | | | | | |
| | 22240 | | | Area of hobnoses, hobbed | 22240 | | | | | | |
| | 22250 | | | Livestock enclosures (minimum size) | 22250 | | | | | | |
| | 22260 | | | Livestock enclosures (actual size) | 22260 | | | | | | |
| | 22270 | | | Telegraph, radio-telegraph stations and line-frames, telegraph exchanges | 22270 | | | | | | |
| | 22280 | | | Meteorological stations | 22280 | | | | | | |
| | 22290 | | | Churches | 22290 | | | | | | |
| | 22300 | | | Mosques | 22300 | | | | | | |
| | 22310 | | | Mazary, suburgan, obo | 22310 | | | | | | |
| | 22320 | | | Remarkable monuments and statues | 22320 | | | | | | |
| | 22330 | | | Cemeteries (minimum size) | 22330 | | | | | | |
| | 22340 | | | Cemeteries (actual size) | 22340 | | | | | | |
| | 22350 | | | Gravestones (point) | 22350 | | | | | | |
| | 22360 | | | | 22360 | | | | | | |
| | 22370 | | | | 22370 | | | | | | |
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CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

| Sheet No. 4357 ga | | Date: Dec / 23 / 04 | |
|---|--------|---------------------|---|
| Checked by K. Usuda | | K. Usuda | |
| Item | Code | O | M |
| Inhabited Areas | | | |
| Symbolized building | 210101 | | |
| Buildings expressed at true scale | 210201 | | |
| Symbolized run | 210301 | | |
| Runs expressed at true scale | 210401 | | |
| Yurt, chin | 210501 | | |
| Fire proofing building | 210601 | | |
| Non-fire proofing building | 210701 | | |
| Sparsely built-up areas | 210901 | | |
| Newly constructing areas | 211001 | | |
| Newly constructing areas | 211101 | | |
| Destroyed half-destroyed blocks | 211201 | | |
| Pitons, factories and mills without chimney | 220101 | | |
| Pitons, factories and mills without chimney expressed at true scale | 220102 | | |
| Plants, factories and mills with chimney | 220103 | | |
| Area of plants, factories and mills | 220104 | | |
| Chimneys | 220105 | | |
| Pit mounds of shafts and drills in operation | 220201 | | |
| Pit mounds of shafts and drills out of operation | 220202 | | |
| Open-cast mining areas | 220301 | | |
| Open-cast mining areas | 220302 | | |
| Fuel and gas tanks | 220401 | | |
| Area of fuel and gas tanks | 220402 | | |
| Oil supply towers and gas stations | 220501 | | |
| Power station (hydroelectric, thermal) | 220601 | | |
| Power transmission stations | 220701 | | |
| Power transmission stations | 220702 | | |
| Area of power transmission stations | 220703 | | |
| Radio stations and television centers | 220801 | | |
| Television, radio and radio relay masts | 220901 | | |
| Airports on land water | 221001 | | |
| Main tower-typed architectures | 221101 | | |
| Simple towers | 221201 | | |
| The bollhouses, loaked | 221301 | | |
| Area of hoodiehouse, loaked | 221302 | | |
| Livestock enclosures (minimum size) | 221401 | | |
| Livestock enclosures (actual size) | 221302 | | |
| Telegraph, tele-telephone stations and branches, telephoto exchanges | 221501 | | |
| Meteorological stations | 221601 | | |
| Churches | 221701 | | |
| Mosques | 221801 | | |
| Mazary, suburgan, obo | 221901 | | |
| Remarkable monuments and statues | 222001 | | |
| Cometeries (minimum size) | 221201 | | |
| Cometeries (actual size) | 222102 | | |
| Gravestone (point) | 222103 | | |
| Industry, Agriculture and Socio-cultural Field Objects | | | |
| Transmission lines | 222201 | | |
| Transmission lines (hidden line) | 222202 | | |
| Power transmission lines with wooden poles and reinforced poles | 222301 | | |
| Power transmission lines | 222302 | | |
| Power transmission lines with metal poles and reinforced concrete poles (hidden line) | 222401 | | |
| Power transmission lines (hidden line) | 222402 | | |
| Stony, brickly walls and meane fences | 222501 | | |
| Light fences for industrial, agricultural and social-cultural object | 222601 | | |
| Boundary of other areas except vegetation and soils | 222602 | | |
| Railways | 310101 | | |
| Railway stations | 310201 | | |
| Block posts and clear posts | 310301 | | |
| Loading and unloading sites | 310401 | | |
| Blind alley of branch lines | 310501 | | |
| Branch lines | 310602 | | |
| Cutvert | 310601 | | |
| Embankments | 310701 | | |
| Cuttings | 310801 | | |
| Automotive roads with improved pavement | 320101 | | |
| Automotive roads with pavement | 320201 | | |
| Automotive roads without pavement | 320301 | | |
| Wide streets in the built-up areas | 320302 | | |
| Narrow streets in the built-up areas | 320303 | | |
| Roadside blank space | 320304 | | |
| Earthen country road | 320401 | | |
| Field and forestry roads | 320501 | | |
| Foot paths | 320601 | | |
| Foot bridges | 320701 | | |
| Roads under construction | 320801 | | |
| Embankments and cuttings | 320901 | | |
| Parking areas | 321101 | | |
| Parking areas expressed to true scale | 321102 | | |
| Boundary points between different pavings | 321301 | | |
| Water lines of sea, rivers, lakes and reservoirs | 410101 | | |
| Coastal sand banks and shoals | 410201 | | |
| Criffy and rocky shores | 410301 | | |
| Permanent river and streams (less than 5m wide) | 410401 | | |
| Permanent river and streams (more than 5m wide) | 410402 | | |
| Centerlines of rivers | 410403 | | |
| Centerlines of rivers passing through lands | 410404 | | |
| Hidden lines on rivers passing through lands | 410405 | | |
| Dried up rivers and streams (single line) | 410501 | | |
| Dried up rivers and streams (double lines) | 410502 | | |
| Waterfalls expressed to true scale | 410601 | | |
| Waterfalls/minimum | 410602 | | |
| Relife | | | |
| Elevations of shorelines | 410701 | | |
| Arrows showing direction of river streams | 410801 | | |
| Velocity value of flow/text | 410802 | | |
| Velocity value of flow | 410803 | | |
| Characteristics of rivers and canals (minimum) | 410901 | | |
| Characteristics of river and canals (maximum) | 410902 | | |
| Water gauges and tide gauges | 411001 | | |
| Canals and ditches (less than 3m wide) | 411101 | | |
| Canals and ditches (from 3m to 10m wide) | 411102 | | |
| Canals and ditches (more than 10m wide) | 411103 | | |
| Irrigation canals (ditches) | 411201 | | |
| Water supplying facilities | 411301 | | |
| Water supplying facilities (single line) | 411302 | | |
| Dried up ditches (single line) | 411401 | | |
| Dried up ditches (double lines) | 411402 | | |
| Fords expressed to true scale | 411501 | | |
| Bridges crossing small obstacles and culverts (less than 3m in height) | 411601 | | |
| Bridges crossing small obstacles and culverts (minimum) | 411602 | | |
| Bridges and elevated bridges (minimum) | 411701 | | |
| Quays | 411801 | | |
| Impassable dam | 411802 | | |
| Embankments (to scale) | 411901 | | |
| Embankments (minimum) | 411902 | | |
| Rivers, canals and ditches with embankments on one side and both | 412001 | | |
| Water pipes on the ground | 412101 | | |
| Wells | 412201 | | |
| Artesian wells and artesian deep-bored wells | 412301 | | |
| Reservoirs and other water-storage facilities | 412401 | | |
| Pountainheads | 412501 | | |
| Equipped fountainheads | 412601 | | |
| Moorage without mooring facilities | 412701 | | |
| Moorage with mooring facilities | 412801 | | |
| Lighthouses | 412901 | | |
| Dried river beds and dried up lake basins (double lines) | 510501 | | |
| Dried river beds and dried up lake basins (filled with pattern) | 510502 | | |
| Dried river beds and dried up lake basins (single line) | 510503 | | |
| Passes, their altitudes and practicable period | 510701 | | |
| Depressions/minimum | 510801 | | |
| Depressions/actual scale | 510802 | | |
| Barrows and hills/minimum | 510901 | | |
| Barrows and hills/actual scale | 510902 | | |
| Entrances of natural and artificial caves | 511001 | | |
| Pen fields and permanent snow patches | 511101 | | |
| Glacier tongues | 511201 | | |
| Glacier crevasses | 511301 | | |
| Vegetations and Soils | | | |
| Moraines | 511401 | | |
| Debris flows | 511501 | | |
| Precipices and rock walls/upper line | 511701 | | |
| Precipices and rock walls/lower line | 511702 | | |
| Precipices and rock walls/parts | 511799 | | |
| Boundaries of firm fields | 511801 | | |
| Turf-banked terraces | 511999 | | |
| Semi-shrubs | 611902 | | |
| Steppe plants | 611903 | | |
| Semi-shrubs | 611904 | | |
| Passable swamps | 612001 | | |
| Passable swamps | 612002 | | |
| Passable solonchak | 612201 | | |
| Surfaces with hills | 612201 | | |
| Hilly surfaces | 612301 | | |
| Stony dispersions and angular stone 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.R. Districts and regions | 710201 | | |
| Boundaries of national preserves | 710301 | | |
| Vegetations and Soils | | | |
| Forests | 610101 | | |
| Dominant species trees in the forest | 610201 | | |
| Dominant species trees in the forest /deciduous | 610302 | | |
| Dominant species trees in the forest /mixed | 610303 | | |
| Narrow forest belts and protective plantings | 610401 | | |
| Isolated trees, non landmark trees | 610501 | | |
| Forest stumps, numerous and saplings/less than 4m height | 610601 | | |
| Thin woods | 610701 | | |
| Shrubs/point | 610801 | | |
| Shrubs/filled with color | 610802 | | |
| Thorny bushes/point | 610901 | | |
| Thorny bushes/filled with color and symbols | 610902 | | |
| Coniferous trees | 611001 | | |
| Broad leaf trees | 611002 | | |
| Narrow shrub belts and hedges | 611101 | | |
| Creeping shrubs/point | 611201 | | |
| Creeping shrubs/filled with color and symbols | 611202 | | |
| Fruits and citrus gardens | 611301 | | |
| Vineyards | 611401 | | |
| Fruits and citrus gardens with vineyards | 611402 | | |
| Berry gardens | 611501 | | |
| Fruits-berry gardens | 611502 | | |
| Herbal plants/polygon | 611601 | | |
| Herbal plants/polygon | 611602 | | |
| Edge matching | | | |
| (4357) (bV) | | | |
| (4357) (VB) | | | |
| (4357) (g-a) | | | |
| (4357) (g-b) | | | |
| (4357) (f3) | | | |

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

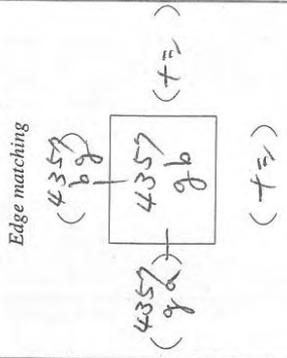
CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

Sheet No. 4357 gb

Checked by K. L. Suda

Date: Dec / 23 / 88

| Item | Code | O | M | Item | Code | O | M | Item | Code | O | M |
|--|--------|---|---|--|--------|---|---|---|--------|---|---|
| Inhabited Areas | 21001 | | | Industry, Agriculture and Socio-cultural Field Objects | 410701 | | | Relife | 511401 | | |
| Symbolized building | 21001 | | | Transmission lines | 410701 | | | Elevations of shorelines | 511401 | | |
| Buildings expressed at true scale | 21002 | | | Transmission lines (hidden line) | 222201 | | | Arrows showing direction of river streams | 511401 | | |
| Symbolized ruin | 21003 | | | Power transmission lines with poles and reinforced bases | 222202 | | | Velocity value of flowtext | 511501 | | |
| Ruins expressed at true scale | 21004 | | | Power transmission lines (hidden line) | 222301 | | | Velocity value of flowtext (less than 10m wide) | 511701 | | |
| Yurt, chum | 21005 | | | Power transmission lines with metal poles and reinforced bases (hidden line) | 222302 | | | Velocity value of flow (more than 10m wide) | 511701 | | |
| Fire proofing building | 21006 | | | Power transmission lines (hidden line) | 222401 | | | Characteristics of rivers and canals (true scale) | 511799 | | |
| Non-fire proofing building | 21007 | | | Power transmission lines (hidden line) | 222402 | | | Characteristics of river and canals (minimum) | 511801 | | |
| Sparsely built-up areas | 21009 | | | Slopy, bricky walls and mosaic fences | 222501 | | | Boundaries of fir fields | 511999 | | |
| Newly constructing areas | 21100 | | | Light fence (wooden, agnetium and social-cultural object) | 222601 | | | Turf-banked terraces | 512001 | | |
| Newly constructing areas | 21101 | | | Boundary of other areas except vegetation and soils | 222602 | | | Ice scarps /upper line | 512002 | | |
| Destroyed half-destroyed blocks | 21201 | | | Railways | 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 | 220102 | | | Block posts and clear posts | 310301 | | | Classic sediments of fragile areas (polygon) | 512201 | | |
| Plants, factories and mills with chimney | 220103 | | | Loading and unloading sites | 310401 | | | Classic sediments of hard areas (polygon) | 512301 | | |
| Area of plants, factories and mills | 220104 | | | Blind alley of branch lines | 310501 | | | Classic sediments of hard areas (part) | 512399 | | |
| Chimneys | 220105 | | | Branch lines | 310602 | | | Land slides/upper line | 512401 | | |
| Pin mounds of shafts and drills in pits | 220201 | | | Culvert | 310601 | | | Land slides/lower line | 512402 | | |
| Pit mounds of shafts and drills out of operation | 220202 | | | Embankments | 310701 | | | Canyons and gullies/vertical line | 512501 | | |
| Open-cast mining areas | 220301 | | | Cuttings | 310801 | | | Canyons and gullies/horizontal line | 512502 | | |
| Open-cast mining areas | 220302 | | | Automotive roads with improved pavement | 320101 | | | Escarpments | 512601 | | |
| Fuel and gas tanks | 220401 | | | Automotive roads with pavement | 320201 | | | Boundaries of vegetation and soils | 610101 | | |
| Area of fuel and gas tanks | 220402 | | | Automotive roads without pavement | 320301 | | | Forests | 610201 | | |
| Oil supply towers and gas stations | 220501 | | | Wide streets in the built-up areas | 320302 | | | Dominant species trees in the forest /coniferous | 610301 | | |
| Power station(s) (hydroelectric, thermal) | 220601 | | | Narrow streets in the built-up areas | 320303 | | | Dominant species trees in the forest /deciduous | 610302 | | |
| Power transmission stations | 220701 | | | Roadside blank space | 320304 | | | Dominant species trees in the forest /deciduous | 610303 | | |
| Power transmission stations | 220702 | | | Earthen country road | 320401 | | | Narrow forest belts and protective plantings | 610401 | | |
| Power transmission stations | 220703 | | | Field and forestry roads | 320501 | | | Isolated trees, non landmark trees | 610501 | | |
| Radio stations and television centers | 220801 | | | Foot paths | 320601 | | | Forest swamps, meadows and saplings/trees less than 4m height | 610601 | | |
| Television, radio and radio relay masts | 220901 | | | Road bridges | 320701 | | | Thin woods | 610701 | | |
| Airports on land water | 221001 | | | Roads under-construction | 320801 | | | Shrubs/point | 610801 | | |
| Main tower-typed architectures | 221101 | | | Embankments and cuttings | 320901 | | | Stubs/filled with color | 610802 | | |
| Simple towers | 221201 | | | Parking areas | 321101 | | | Thorny bushes/point | 610901 | | |
| The hobhouse, hobbed | 221301 | | | Parking areas expressed to true scale | 321102 | | | Thorny bushes/filled with color and symbols | 610902 | | |
| Area of hobhouse, hobbed | 221302 | | | Boundary points between different types of use, rivers, beds and reservoirs | 321301 | | | Coniferous trees | 611001 | | |
| Livestock enclosures (minimum size) | 221401 | | | Coastal sand banks and shoals | 410101 | | | Broad leaf trees | 611002 | | |
| Livestock enclosures (actual size) | 221302 | | | Criffy and rocky shores | 410201 | | | Narrow shrub belts and hedges | 611101 | | |
| Telegraph, radiotelegraph stations and branches, telephone exchanges | 221501 | | | Permanent river and streams (less than 5m wide) | 410401 | | | Creeching shrubs/point | 611201 | | |
| Meteorological stations | 221601 | | | Permanent rivers and streams (from 5 to 10m wide) | 410402 | | | Creeching shrubs/filled with color and symbols | 611202 | | |
| Churches | 221701 | | | Permanent rivers and streams (more than 10m wide) | 410403 | | | Fruits and citrus gardens | 611301 | | |
| Mosques | 221801 | | | Centerlines of rivers | 410404 | | | Vineyards | 611401 | | |
| Mazary, subargan, obo | 221901 | | | Hidden lines on rivers passing through the area | 410405 | | | Fruits and citrus gardens with vineyards | 611402 | | |
| Remarkable monuments and statues | 222001 | | | Dried up rivers and streams (single line) | 410501 | | | Berry gardens | 611501 | | |
| Cemeteries (minimum size) | 222101 | | | Dried up rivers and streams (double line) | 410502 | | | Fruit-berry gardens | 611502 | | |
| Cemeteries (actual size) | 222102 | | | Waterfalls expressed to true scale | 410601 | | | Herbal plants/polygon | 611601 | | |
| Gravestone (point) | 222103 | | | Waterfalls/minimum | 410602 | | | Herbal plants/polygon | 611602 | | |



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

CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

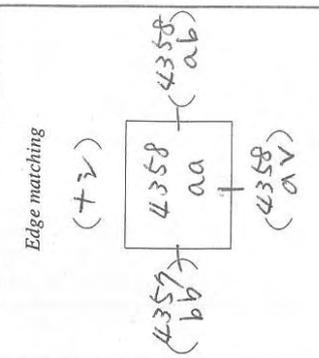
Sheet No. 4358 a9

Checked by K. Usab

Date: Dec / 23 / 04

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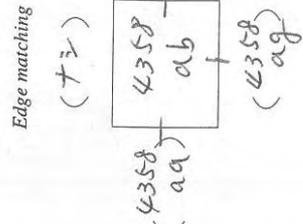
| Item | Code | O | M | Item | Code | O | M | Item | Code | O | M |
|---|--------|---|---|---|--------|---|---|--|--------|---|---|
| Inhabited Areas | | | | Industry, Agriculture and Socio-cultural Field Objects | | | | Vegetations and Soils | | | |
| Symbolized building | 210101 | | | Transmission lines | 222201 | | | Moraines | 511401 | | |
| Buildings expressed at true scale | 210201 | | | Transmission lines (hidden line) | 222202 | | | Debris flows | 511501 | | |
| Symbolized ruin | 210301 | | | Power transmission lines with wooden poles and reinforced poles (hidden line) | 222301 | | | Precipice and rock walls/upper line | 511701 | | |
| Runs expressed at true scale | 210401 | | | Power transmission lines (hidden line) | 222302 | | | Precipice and rock walls/lower line | 511702 | | |
| Yurt, chum | 210501 | | | Power transmission lines with metal and reinforced concrete poles (hidden line) | 222401 | | | Precipice and rock walls/upper line | 511799 | | |
| Fire proofing building | 210601 | | | Power transmission lines (hidden line) | 222402 | | | Boundaries of firm fields | 511801 | | |
| Non-fire proofing building | 210701 | | | Stony, bricky walls and masonry fences | 222501 | | | Turf-banked terraces | 511999 | | |
| Sparsely built-up areas | 210901 | | | Light fences for industrial, agricultural and socio-cultural objects | 222601 | | | Semi-shrubs | 611902 | | |
| Newly constructing areas | 211001 | | | Boundary of other areas except vegetations and soils | 222602 | | | Steppe plants | 611903 | | |
| Newly constructing areas | 211101 | | | Railways | | | | Semi-shrubs | 611904 | | |
| Destroyed half-destroyed blocks | 211201 | | | Railways | 310101 | | | Passable swamps | 612001 | | |
| Plants, factories and mills without chimney | 220101 | | | Railway stations | 310201 | | | Passable swamps | 612002 | | |
| Plants, factories and mills without chimney expressed at true scale | 220102 | | | Block posts and clear posts | 310301 | | | Passable subsochak | 612101 | | |
| Plants, factories and mills with chimney | 220103 | | | Loading and unloading sites | 310401 | | | Surfaces with hills | 612201 | | |
| Area of plants, factories and mills | 220104 | | | Blind alley of french lines | 310501 | | | Hilly surfaces | 612301 | | |
| Chimneys | 220105 | | | Branch lines | 310502 | | | Stony dispersions and augur stone surfaces | 612401 | | |
| Fit inside of shafts and drills in operation | 220201 | | | Culvert | 310601 | | | Stony surfaces | 612402 | | |
| Fit inside of shafts and drills out of operation | 220202 | | | Embankments | 310701 | | | Stony surface/point | 612403 | | |
| Open-cast mining areas | 220301 | | | Cuttings | 310801 | | | Conglomerate and gravel surfaces | 612404 | | |
| Open-cast mining areas | 220302 | | | Automotive roads with improved pavement | 320101 | | | Sandy flats | 612601 | | |
| Field and gas tanks | 220401 | | | Automotive roads with pavement | 320201 | | | Boundaries | | | |
| Area of fuel and gas tanks | 220402 | | | Automotive roads without pavement | 320301 | | | National boundaries | 710101 | | |
| Oil supply towers and gas stations | 220501 | | | Wide streets in the built-up areas | 320302 | | | Boundaries of Autonomous S.S.R. | 710201 | | |
| Power station (hydroelectric, thermal) | 220601 | | | Narrow streets in the built-up areas | 320303 | | | Boundaries of national preserves | 710301 | | |
| Power transmission stations | 220701 | | | Roadside blank space | 320304 | | | | | | |
| Power transmission stations | 220702 | | | Earthen country road | 320401 | | | | | | |
| Area of power transmission stations | 220703 | | | Field and forestry roads | 320501 | | | | | | |
| Radio stations and television centers | 220801 | | | Foot paths | 320601 | | | | | | |
| Television, radio and radio relay masts | 220901 | | | Foot bridges | 320701 | | | | | | |
| Airports on land water | 221001 | | | Roads under-construction | 320801 | | | | | | |
| Main tower-typed architectures | 221101 | | | Embankments and cuttings | 320901 | | | | | | |
| Simple towers | 221201 | | | Parking areas | 321101 | | | | | | |
| The hollows, holed | 221301 | | | Parking areas expressed to true scale | 321102 | | | | | | |
| Area of hollows, holed | 221302 | | | Boundary points between different types of roads | 321301 | | | | | | |
| Livestock enclosures (minimum size) | 221401 | | | Water lines of sea, rivers, lakes and reservoirs | 410101 | | | Vegetations and Soils | | | |
| Livestock enclosures (actual size) | 221302 | | | Coastal sand banks and shoals | 410201 | | | Elevations of shorelines | 410701 | | |
| Telegraph, subtelegraph stations and telephoto, telephone exchanges | 221501 | | | Griffy and rocky shores | 410301 | | | Arrows showing direction of river streams | 410801 | | |
| Metereological stations | 221601 | | | Permanent river and streams (less than 5m wide) | 410401 | | | Velocity value of flow/vent | 410802 | | |
| Churches | 221701 | | | Permanent river and streams (from 5 to 10m wide) | 410402 | | | Velocity value of flow (single line) | 410901 | | |
| Mosques | 221801 | | | Permanent river and streams (more than 10m wide) | 410403 | | | Characteristics of rivers and canals (true scale) | 410902 | | |
| Mosque, submosque, obelisk | 221901 | | | Centerlines of rivers | 410404 | | | Characteristics of river and canals (minimum) | 410903 | | |
| Remarkable monuments and statues | 222001 | | | Hidden lines on rivers passing through lands | 410405 | | | Water gauges and tide gauges | 411001 | | |
| Cemeteries (minimum size) | 221201 | | | Dried up rivers and streams | 410501 | | | Canals and ditches (less than 10m wide) | 411101 | | |
| Cemeteries (actual size) | 221202 | | | Waterfalls expressed to true scale | 410502 | | | Canals and ditches (more than 10m wide) | 411103 | | |
| Gravestone (point) | 222103 | | | Waterfalls/minimum | 410601 | | | Irrigation canals (ditches) | 411201 | | |
| | | | | | 410602 | | | Water supplying facilities | 411301 | | |
| | | | | | | | | Dried up ditches (single line) | 411302 | | |
| | | | | | | | | Dried up ditches (double line) | 411401 | | |
| | | | | | | | | Folds expressed to true scale | 411402 | | |
| | | | | | | | | Bridges crossing small obstacles and culverts (less than 3m in length) | 411501 | | |
| | | | | | | | | Bridges crossing small obstacles and culverts (more than 3m in length) | 411601 | | |
| | | | | | | | | Bridges and elevated bridges (minimum) | 411602 | | |
| | | | | | | | | Quay | 411701 | | |
| | | | | | | | | Impassable dam | 411801 | | |
| | | | | | | | | Embankments (to scale) | 411802 | | |
| | | | | | | | | Embankments | 411901 | | |
| | | | | | | | | Rivers, canals and ditches with embankments on one side and both | 411902 | | |
| | | | | | | | | Water pipes on the ground | 412101 | | |
| | | | | | | | | Wells | 412201 | | |
| | | | | | | | | Artesian wells and artesian deep-bored wells | 412301 | | |
| | | | | | | | | Reservoirs and other water-storing facilities | 412401 | | |
| | | | | | | | | Frontanheads | 412501 | | |
| | | | | | | | | Equipped fountainheads | 412601 | | |
| | | | | | | | | Moorage without mooring facilities | 412701 | | |
| | | | | | | | | Lighthouses | 412801 | | |
| | | | | | | | | Dried river beds and dried up lake basins | 510501 | | |
| | | | | | | | | Dried river beds and dried up lake basins, filled with pattern | 510502 | | |
| | | | | | | | | Dried up rivers and streams with bare banks/steep banks | 510503 | | |
| | | | | | | | | Passes, steep alluvial and precipitable period | 510701 | | |
| | | | | | | | | Depressions/minimum | 510801 | | |
| | | | | | | | | Depressions/actual scale | 510802 | | |
| | | | | | | | | Barrows and hills/minimum | 510901 | | |
| | | | | | | | | Barrows and hills/actual scale | 510902 | | |
| | | | | | | | | Entrances of natural and artificial caves | 511001 | | |
| | | | | | | | | Firm fields and permanent snow patches | 511101 | | |
| | | | | | | | | Glacier tongues | 511201 | | |
| | | | | | | | | Glacier crevasses | 511301 | | |



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

CHECKLIST OF CARTOGRAPHIC SYMBOLS ON THE 1/25,000 SCALE MANUSCRIPT

| Sheet No. 4358 ab | | Date: Dec / 23 / 08 | |
|---|--------|---------------------|---|
| Checked by K. Usuda | | Code O M | |
| Item | Code | O | M |
| Inhabited Areas | | | |
| Symbolized building | 210101 | | |
| Buildings expressed at true scale | 210201 | | |
| Symbolized ruin | 210301 | | |
| Ruins expressed at true scale | 210401 | | |
| Yurt, chum | 210501 | | |
| Fire proofing building | 210601 | | |
| Non-fire proofing building | 210701 | | |
| Sparsely built-up areas | 210901 | | |
| Newly constructing areas | 211001 | | |
| Newly constructing areas | 211101 | | |
| Destroyed hail-destroyed blocks | 211201 | | |
| Plains, lacustrine and mounds without chimney | 220101 | | |
| Plains, lacustrine and mounds without chimney expressed at true scale | 220102 | | |
| Plains, lacustrine and mounds with chimney | 220103 | | |
| Area of plains, lacustrine and mounds | 220104 | | |
| Chimneys | 220105 | | |
| Pit mounds of shafts and drills in operation | 220201 | | |
| Pit mounds of shafts and drills out of operation | 220202 | | |
| Open-cast mining areas | 220301 | | |
| Open-cast mining areas | 220302 | | |
| Fuel and gas tanks | 220401 | | |
| Area of fuel and gas tanks | 220402 | | |
| Oil supply towers and gas stations | 220501 | | |
| Power station(s) (hydroelectric, thermal) | 220601 | | |
| Power transmission stations | 220701 | | |
| Power transmission stations | 220702 | | |
| Area of power transmission stations | 220703 | | |
| Radio stations and television centers | 220801 | | |
| Television, radio and radio relay masts | 220901 | | |
| Airports on land water | 221001 | | |
| Main tower-typed architectures | 221101 | | |
| Simple towers | 221201 | | |
| The hobhouse, hobbed | 221301 | | |
| Area of hobhouse, hobbed | 221302 | | |
| Livestock enclosures (minimum size) | 221401 | | |
| Livestock enclosures (actual size) | 221501 | | |
| Telegraph, radiotelegraph stations and beacons, telephone exchanges | 221601 | | |
| Meteorological stations | 221701 | | |
| Churches | 221801 | | |
| Mosques | 221901 | | |
| Mazary, subargat, dho | 222001 | | |
| Remarkable monuments and azares | 222101 | | |
| Cemeteries (minimum size) | 222201 | | |
| Cemeteries (actual size) | 222301 | | |
| Gravestone (point) | 222303 | | |
| Socio-cultural Field Objects | | | |
| Transmission lines | 222201 | | |
| Transmission lines (hidden line) | 222202 | | |
| Power transmission lines with wooden poles and reinforced poles | 222301 | | |
| Power transmission lines (hidden line) | 222302 | | |
| Power transmission lines with metal poles and reinforced poles | 222401 | | |
| Power transmission lines (hidden line) | 222402 | | |
| Stony, brickly walls and meagre fences | 222501 | | |
| Light fences for industrial, agricultural and social-cultural objects | 222601 | | |
| Boundary of other areas except vegetation and soils | 222602 | | |
| Railways | | | |
| Railways | 310101 | | |
| Railway stations | 310201 | | |
| Block posts and clear posts | 310301 | | |
| Loading and unloading sites | 310401 | | |
| Blind alley of branch lines | 310501 | | |
| Branch lines | 310502 | | |
| Culvert | 310601 | | |
| Embankments | 310701 | | |
| Cuttings | 310801 | | |
| Automotive roads with improved pavement | 320101 | | |
| Automotive roads with pavement | 320201 | | |
| Automotive roads without pavement | 320301 | | |
| Wide streets in the built-up areas | 320302 | | |
| Narrow streets in the built-up areas | 320303 | | |
| Roadside blank space | 320304 | | |
| Earthen country road | 320401 | | |
| Field and forestry roads | 320501 | | |
| Foot paths | 320601 | | |
| Foot bridges | 320701 | | |
| Roads under-construction | 320801 | | |
| Embankments and cuttings | 320901 | | |
| Parking areas | 321101 | | |
| Parking areas expressed to true scale | 321102 | | |
| Boundary points between different pavements | 321301 | | |
| Water lines of sea, river, lake and reservoirs | 410101 | | |
| Coastal sand banks and shoals | 410201 | | |
| Criffy and rocky shores | 410301 | | |
| Permanent river and streams (less than 5m wide) | 410401 | | |
| Permanent river and streams (from 5 to 10m wide) | 410402 | | |
| Permanent river and streams (more than 10m wide) | 410403 | | |
| Centerlines of rivers | 410404 | | |
| Hidden lines on rivers passing through lands | 410405 | | |
| Dried up rivers and streams (single line) | 410501 | | |
| Dried up rivers and streams (double line) | 410502 | | |
| Waterfalls expressed to true scale | 410601 | | |
| Waterfalls/minimum | 410602 | | |
| Hydrography and its facilities | | | |
| Elevations of shorelines | 410701 | | |
| Arrows showing direction of river streams | 410801 | | |
| Velocity values of flow/text | 410802 | | |
| Velocity values of flow | 410803 | | |
| Characteristics of rivers and canals (true scale) | 410901 | | |
| Characteristics of river and canals (minimum) | 410902 | | |
| Water gauges and tide gauges (minimum) | 411001 | | |
| Canals and ditches (more than 10m wide) | 411101 | | |
| Canals and ditches (less than 10m wide) | 411102 | | |
| Canals and ditches (more than 10m wide) | 411103 | | |
| Irrigation canals (ditches) | 411201 | | |
| Water supplying facilities | 411301 | | |
| Dried up ditches (single line) | 411401 | | |
| Dried up ditches (double line) | 411402 | | |
| Fords expressed to true scale | 411501 | | |
| Bridges crossing small obstacles and culverts (less than 3m in length) | 411601 | | |
| Bridges crossing small obstacles and culverts (3m to 10m in length) | 411602 | | |
| Bridges and elevated bridges (minimum) | 411701 | | |
| Quays | 411801 | | |
| Impassable dam | 411802 | | |
| Embankments (to scale) | 411901 | | |
| Embankments (minimum) | 411902 | | |
| Embankments and ditches with embankments on one side and both | 412001 | | |
| Water pipes on the ground | 412101 | | |
| Wells | 412201 | | |
| Artesian wells and areolas | 412301 | | |
| Deep-bored wells | 412401 | | |
| Reservoirs and other water-storing facilities | 412501 | | |
| Fountainheads | 412601 | | |
| Equipped fountainheads | 412701 | | |
| Moorage without mooring facilities | 412801 | | |
| Moorage with mooring facilities | 412802 | | |
| Lighthouses | 412901 | | |
| Dried river beds and dried up lake basins | 510501 | | |
| Dried river beds and dried up lake basins/ filled with pattern | 510502 | | |
| Dried river beds and dried up lake basins/ filled with pattern (practicable period) | 510503 | | |
| Passes, abutments and depressions/minimum | 510701 | | |
| Depressions/actual scale | 510801 | | |
| Barrows and hills/minimum | 510901 | | |
| Barrows and hills/actual scale | 510902 | | |
| Entrances of natural and artificial caves | 511001 | | |
| Fern fields and permanent snow patches | 511101 | | |
| Gleets/ troughs | 511201 | | |
| Gleets/ crevasses | 511301 | | |
| Relite | | | |
| Boundaries of vegetation and soils | 610101 | | |
| Forests | 610201 | | |
| Dominant species trees in the forest | 610301 | | |
| Dominant species trees in the forest (minimum) | 610302 | | |
| Dominant species trees in the forest (maximum) | 610303 | | |
| Narrow forest belts and protective plantings | 610401 | | |
| Isolated trees, non landmark trees | 610501 | | |
| Forest stumps, nurseries and saplings/less than 4m height | 610601 | | |
| Thin woods | 610701 | | |
| Shrubs/point | 610801 | | |
| Shrubs/filled with color | 610802 | | |
| Thorny bushes/point | 610901 | | |
| Thorny bushes/filled with color and symbols | 610902 | | |
| Coniferous trees | 611001 | | |
| Broad leaf trees | 611002 | | |
| Narrow shrub belts and hedges | 611101 | | |
| Creeping shrubs/point | 611201 | | |
| Creeping shrubs/filled with color and symbols | 611202 | | |
| Fruits and citrus gardens | 611301 | | |
| Vineyards | 611401 | | |
| Fruits and citrus gardens with vineyards | 611402 | | |
| Berry gardens | 611501 | | |
| Fruits-berry gardens | 611502 | | |
| Herbal plants/polygon | 611601 | | |
| Herbal plants/polygon | 611602 | | |
| Vegetations and Soils | | | |
| Moraines | 511401 | | |
| Debris flows | 511501 | | |
| Prescribes and rock walls/upper line | 511701 | | |
| Prescribes and rock walls/lower line | 511702 | | |
| Prescribes and rock walls/parts | 511799 | | |
| Boundaries of firm fields | 511801 | | |
| 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 depressions and angular some surfaces | 612401 | | |
| Stony surfaces | 612402 | | |
| Stony surfaces/point | 612403 | | |
| Stony surfaces/point | 612404 | | |
| Conglomerate and gravel surfaces | 612501 | | |
| Sandy flats | 612601 | | |
| Boundaries | | | |
| 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

