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1. Use of the data dictionary

The data dictionary has six components:

- · The feature class cross reference
- The included terms cross reference
- The feature class dictionary
- The secondary table dictionary
- The symbol dictionary
- The layer table dictionary

The feature class cross reference relates commonly used terms to feature classes in the data. The list is sorted alphabetically by the commonly used terms. While the list is not exhaustive it is designed to help assigning entities to the appropriate feature class. Once the appropriate feature class has been determined the feature class dictionary should be consulted for the conditions of use of the feature. Where a commonly used term relates to more than one feature the dictionary entries for both features should be consulted to determine the appropriate feature class for a particular entity.

The included terms cross reference relates the feature classes to commonly used terms. This list is sorted alphabetically by feature class and should be used to determine the range of features that fall within a feature class. Again the list is not exhaustive and the feature class dictionary should be consulted for the conditions of use of the feature class.

The feature class dictionary gives detailed information on the definition, conditions of use and other reference information for valid feature classes. An explanation of the feature class dictionary's components is given on the next page.

The secondary table dictionary defines secondary tables which are included in the GEODATA database. For the data quality table, the tile quality information table and the tile frequency table, the purpose and a brief description are included. The fields for the table are also defined. A field descriptor eg KEY FIELD is followed by the field code in round brackets e.g. (Q_INFO) and the data type in square brackets [CHARACTER; 8]. This information is followed by a short definition of the field. The remaining secondary tables decode attribute entries specific to certain feature classes. The dictionary entries for these secondary tables replicate the table. The table name is the name of the attribute in the primary table, the first column is the attribute code for legal entries and the second the description for each code. The first row defines the field names and data types. These secondary attribute tables are common to all GEODATA tiles and are included for reference.

The symbol dictionary defines the symbols that will be used on the map. Colours appearing in the dictionary are indicative only; the printed colours will be as specified. Symbols are not drawn to scale

The layer table dictionary gives definitions of the attribute tables for each layer.

1.1 The feature class dictionary layout

The facing page gives a sample dictionary entry. The entries include the following information:

Feature Class

This is the name of the feature class.

Definition

The definition which applies to the feature class

Classification of features is to be based on their match to the feature class definition and not their name. For example, an area named Williams Swamp may need to be classified as Land Subject to inundation.

Minimum size for inclusion

The size criteria for inclusion. Length and/or height criteria may apply to linear features such as levees or vertical features such as towers. Area criteria may apply to polygons.

All additional features captured from any other source must comply with the size criteria as stated in these specifications.

Length criteria will not apply to features that join two or more features in the same network at each end.

The minimum area indicated for polygon feature classes is the minimum area for the whole feature, ie. where a polygon feature crosses a tile edge the minimum area criteria will be applied against the total area of the polygon itself, not just that individual part appearing on either the GEODATA tile or the working database. Similarly for linear features the minimum length applies to the whole feature not just that part which falls on the tile.

Scales

This gives the scales for which the feature class applies. Some feature classes are only used for 1:100 000 or 1:250 000 mapping and data, others at both scales.

Feature usage

This shows whether the data is used for GEODATA and mapping, GEODATA only, mapping only or for the Working database only. Features used for GEODATA and/or mapping will also be included in the working database. The example on the facing page indicates a feature class used in GEODATA and the working database. A mapping entry indicates that some aspect of the feature's spatial object or its attribute object will appear on the map. In some cases this will be a text note attribute which will be reflected in an annotation feature. For example, a Crater feature is not symbolised on the map but the name and text note attributes will be reflected in the type on the map

Spatial object

Representation This is the spatial object type; polygon, chain or point (see

Section 1 chapter 2.1). Some features may have two representations depending on the size of the entity or the

scale which is being applied.

Planimetric accuracy Planimetric accuracy is given in metres with the accuracy for

1:250 000 before the slash and for 1:100 000 after the slash. Where planimetric accuracy is not applicable for a spatial object at a particular scale this is indicated by a dash (-).

Feature code The feature code is the code which identifies that spatial

object type for the feature class. The first field in every primary attribute table, feat_code, holds this code. This field has a data type of CHARACTER; 12. Feature codes will be

all lower case.

Coverage The letter code for the Arc/Info coverage(s) the feature is

stored in.

Data attributesThe data attributes define the fields in the primary table with

the exception of feat_code. For each field a field descriptor eg UNIQUE FEATURE IDENTIFIER is followed by the field code in round brackets e.g. (ufi) and the data type in square brackets e.g. [character; 10] and a brief description e.g. Alphanumeric feature Identifier. This information may be followed by legal entries used in the field and their description if held as codes (this information is also given in the secondary attribute tables). The data type definitions are standard ARC/INFO data type definitions of the form, Input width (n), output width (n), type.

Input and output width is numbers. Types are:

I means Integer D means Date

C means Character B means Binary

N,d means Number followed by the number of decimal places eg N,2 for a number with two decimal places

F,d means Floating point number followed by the number of decimal places eg F,2 for a Floating point number with two decimal places.

Attributes used in GEODATA and the working database are shown in normal type. Attributes specific to the working database are shown in italics.

General notes The general notes section includes any additional selection

criteria which may apply and other notes on usage which apply to the working database or both the maps and

GEODATA.

GEODATA The GEODATA section gives information specific to the use

of the feature class in GEODATA. This section will be blank if there are no specific notes or the feature class is not used in

GEODATA.

Map The map section gives information specific to the use of the

feature class on the map. This section will be blank if there are no specific notes or information from the feature class is

not used on the map.

Data rulesThe data rules section specifies usage of the feature class in

the working database and, if relevant, GEODATA. The relationship of the feature class to other classes is outlined.

Related features Feature classes which have a relationship with this feature

class.

Related chapters Chapters in the specification which include information

relevant to this feature class.

Note: Geoscience Australia does not warrant the Related features and Related chapters sections of the Feature class dictionary as being complete. Bidders and producers are cautioned to familiarise themselves with the whole specification (see page ii of the preamble to the specifications).

Feature Class

Definition

| Minimum Size for Inclusion | | | |
|--|--|--|--|
| Dimensions Area (sq m) 1:250 000 | | | |
| Length Height 100K 250K | | | |
| Length Height 100K 250K | | | |
| | | | |
| Spatial object | | | |
| Representation Spatial object type | | | |
| Planimetric Accuracy 1:250K / 1:100K | | | |
| Feature code Coverage (see Section 3 chapter 4) Feature code | | | |
| Coverage (see Section 3 chapter 4) | | | |
| Data Attributes | | | |
| GEODATA and working database | | | |
| DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (See | | | |
| Section 1 chapter 3.5 and Section 3 chapter 5.4) | | | |
| UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (See | | | |
| Section 1 chapter 3.4 and Section 3 chapter 5.4) | | | |
| Working database only | | | |
| | | | |
| SYMBOL (symbol) [binary; 4,5,B,0] Symbol number applicable: | | | |
| 420 | | | |
| General Notes | | | |
| | | | |
| GEODATA | | | |
| | | | |
| Мар | | | |
| тар ———————————————————————————————————— | | | |
| Date rules | | | |
| Data rules | | | |
| | | | |
| Related features | | | |
| | | | |
| Related chapters | | | |
| | | | |

Commonly used term

| Abandoned road | Road |
|---|-------------------------------|
| Aboriginal Area (Indigenous Area) | Reserve – Nature Conservation |
| Aboriginal community (indigenous community) | Building |
| Aboriginal community (indigenous community) | Builtup area |
| Aboriginal place (Indigenous Place) | Reserve – Nature Conservation |
| Aboriginal Reserve (Indigenous Reserve) | Reserve - Indigenous area |
| Aboriginal Site (Indigenous Site) | Reserve – Nature Conservation |
| Aerial Cableway | Aerial cableway |
| Aerodrome | Aircraft facility |
| Aerodrome | Airport |
| Aircraft facility | Aircraft facility |
| Aircraft facility line | Aircraft facility line |
| Airport | Aircraft facility |
| Airport | Airport |
| Alpine Reserve | Reserve - Nature conservation |
| Annotation | Annotation |
| Aquaculture pens (non land based) | Landmark area |
| Aquaculture pond | Settling pond |
| Aquarium | Water tank |
| Aquatic Reserve | Reserve - Nature conservation |
| Aqueduct | Canal |
| Area subject to inundation | Land subject to inundation |
| Artificial lake | Reservoir |
| Automatic weather station | Landmark point |
| Backshore | Saline coastal flat |
| Bank | Reef |
| Barchan dunes | Sand dunes |
| Barrage | Dam |
| Bay | Locality |
| Beach | Locality |
| Beach | Sand |
| Beacon | Landmark point |
| Bench mark | Bench mark |
| Billabong | Lake |
| Billabong | Waterhole |

Commonly used term

| Billabong boundary | Waterline |
|-------------------------------------|------------------------|
| Blowhole | Cave |
| Bluff | Cliff |
| Boat lift | Lock |
| Boat ramp | Boat ramp |
| Boom gate | Gate |
| Border - State or Territory | State border |
| Bore | Bore |
| Bore drain | Canal |
| Boulder | Pinnacle |
| Boulder field | Rocky outcrop |
| Boundary - National Park | Reserve line |
| Boundary - Nature Reserve | Reserve line |
| Boundary - Prohibited area | Prohibited area line |
| Boundary - Recreation Reserve | Reserve line |
| Boundary - Reserved area | Reserve line |
| Boundary - Reserved Indigenous Land | Reserve line |
| Boundary - Scenic Reserve | Reserve line |
| Boundary - State | State border |
| Boundary - State Forest | Reserve line |
| Boundary - State or Territory | State border |
| Boundary - State Park | Reserve line |
| Boundary - Territory | State border |
| Boundary - Water Catchment Area | Reserve line |
| Boundary Conservation Area | Reserve line |
| Boundary Defence Force | Prohibited area line |
| Boundary Fauna Reserve | Reserve line |
| Boundary Flora Reserve | Reserve line |
| Boundary Forest Reserve | Reserve line |
| Boundary Game Reserve | Reserve line |
| Boundary Historical Area | Reserve line |
| Boundary International | Boundary International |
| Breakaway | Cliff |
| Breakwater | Breakwater |
| Bridge - foot | Foot bridge |
| Bridge - railway | Railway bridge |
| Bridge - road | Road bridge |
| Bridle path | Foot track |
| Brook | Watercourse |

Commonly used term

| Building | Building |
|-----------------------------|-------------------------------|
| Building - factory | Building |
| Building - hospital | Building |
| Building - ruin | Building |
| Building - shopping complex | Building |
| Building line | Building line |
| Built-up area | Built-up area |
| Built-up area line | Built-up area line |
| Built-up area void | Built-up area void |
| Bush gate | Gate |
| Butte | Pinnacle |
| Cableway (aerial) | Aerial cableway |
| Canal | Canal |
| Canal | Salt evaporator internal line |
| Cane grass | Marine swamp |
| Cape | Locality |
| Cascade | Waterfall |
| Cataracts | Waterfall |
| Cattle grid | Stock grid |
| Causeway - rail | Railway causeway |
| Causeway - road | Road causeway |
| Cave | Cave |
| Cavern | Cave |
| Cay | Island |
| Cay | Reef |
| Cemetery | Cemetery |
| Cemetery | Locality |
| Chair lift | Aerial cableway |
| Channel | Canal |
| Chimney | Landmark point |
| City | Built-up area |
| Civic square | Park |
| Claypan | Lake |
| Claypan boundary | Waterline |
| Claypit | Open cut/Mining area |
| Cleared line | Seismic line/Cleared line |
| Cliff | Cliff |
| Coastal Park | Reserve - Nature conservation |
| Coastal Reserve | Reserve - Nature conservation |

Commonly used term

| Coastline | Waterline |
|------------------------------|-------------------------------|
| Connecting road | Road |
| Connector | Connector |
| Conservation Area | Reserve - Nature conservation |
| Conservation Area boundary | Reserve line |
| Conservation Park | Reserve - Nature conservation |
| Conservation Reserve | Reserve - Nature conservation |
| Contour | Contour |
| Control point - bench mark | Bench mark |
| Control point - horizontal | Horizontal control point |
| Control point - trig station | Horizontal control point |
| Conveyor | Conveyor |
| Conveyor belt | Conveyor |
| Cooling tower | Landmark point |
| Coral | Offshore rock |
| Coral | Reef |
| Cotton Gin (seasonal) | Landmark area |
| Cove | Locality |
| Cowal | Watercourse |
| Crater | Crater |
| Creek | Watercourse |
| Crescent dunes | Sand dunes |
| Culvert | Canal |
| Cut | Cutting |
| Cutting | Cutting |
| Dam | Dam |
| Dam - carrying road | Dam |
| Defence area | Prohibited area |
| Defence Force boundary | Prohibited area line |
| Defence Reserve | Prohibited area |
| Destination arrow - road | Road destination arrow |
| Digging | Mine |
| Digging | Open cut/mining area |
| Distance indicator | Kilometric distance indicator |
| Distorted surface | Distorted surface |
| Diversion cut | Spillway |
| Divided road | Road |
| Dock | Jetty |
| Dog fence | Fence |

Commonly used term

| Doline | Cave |
|----------------------------------|-------------------------------|
| Double line watercourse | Lake |
| Double line watercourse boundary | Waterline |
| Double line watercourse infill | Lake |
| Drain | Canal |
| Dry dock | Dry dock |
| Dunes - barchan | Sand dunes |
| Dunes - crescent | Sand dunes |
| Dunes - longitudinal | Sand ridge |
| Dunes - sand | Sand dunes |
| Embankment | Embankment |
| Environmental Park | Reserve - Nature conservation |
| Escarpment | Cliff |
| Factory | Building |
| Falls | Waterfall |
| Fauna Reserve | Reserve - Nature conservation |
| Fauna Sanctuary | Reserve - Nature conservation |
| Feature identifier arrow | Feature pointer |
| Feature pointer | Feature pointer |
| Fence | Fence |
| Fence - dog | Fence |
| Fence - vermin proof | Fence |
| Ferry | Ferry route |
| Ferry crossing | Ferry route |
| Ferry route | Ferry route |
| Ferry terminal | Jetty |
| Fire tower | Landmark point |
| Fish Habitat Reserve | Reserve - Nature conservation |
| Fish hatchery | Settling pond |
| Fish pen | Settling pond |
| Fish pond | Water tank |
| Floating dry dock | Dry dock |
| Floodway | Road causeway |
| Flora and Fauna Reserve | Reserve - Nature conservation |
| Flora Reserve | Reserve - Nature conservation |
| Foot bridge | Foot bridge |
| Foot path | Foot track |
| Foot track | Foot track |
| Ford | Ford |

Commonly used term

| Foreshore flat | Foreshore flat |
|--------------------------|-------------------------------|
| Foreshore flat line | Offshore line |
| Forest | Woody vegetation |
| Forest Park | Reserve - Forestry |
| Forest Reserve | Reserve - Forestry |
| Freeway | Road |
| Game Reserve | Reserve - Nature conservation |
| Game Reserve boundary | Reserve line |
| Gap | Locality |
| Gardens | Park |
| Gas pipeline | Pipeline |
| Gas well | Gas well |
| Gate | Gate |
| Gateway | Gate |
| Geothermal power station | Landmark area |
| Gilgai | Distorted surface |
| Gnamma hole | Waterpoint |
| Golf course | Park |
| Gorge | Locality |
| Graticule line | Graticule line |
| Grave | Locality |
| Gravel pit | Open cut/Mining area |
| Graveyard | Cemetery |
| Graving dock | Dry dock |
| Grid | Stock grid |
| Grid line | Grid line |
| Groyne | Breakwater |
| Gully | Watercourse |
| Headland | Locality |
| Hedge | Windbreak |
| Hedgerow | Windbreak |
| Helipad | Aircraft facility |
| Heliport | Aircraft facility |
| Highway | Road |
| Hill | Locality |
| Historical Area | Reserve - Nature conservation |
| Historical Area boundary | Reserve line |
| Homestead | Locality |
| Homestead tank | Water tank |

Commonly used term

| Horizontal control point | Horizontal control point |
|--|-------------------------------|
| Hospital | Building |
| Hovercraft route | Ferry route |
| Hut | Building |
| Hydrofoil route | Ferry route |
| Hypso area | Hypsometric area |
| Indigenous Area (refer Aboriginal entry) | Reserve – Nature Conservation |
| Inlet | Locality |
| International boundary | Boundary - International |
| Intertidal flat | Foreshore flat |
| Inundation area | Land subject to inundation |
| Island | Island |
| Jetty | Jetty |
| Jump-up | Cliff |
| Junction | Junction |
| Kilometric distance indicator | Kilometric distance indicator |
| Kilometric distances | Kilometric distance indicator |
| Knob | Locality |
| Lagoon | Lake |
| Lagoon | Waterhole |
| Lagoon boundary | Waterline |
| Lagoon infill | Lake |
| Lake | Lake |
| Lake | Waterpoint |
| Lake - artificial | Reservoir |
| Lake boundary | Waterline |
| Lake infill | Lake |
| Land subject to inundation | Land subject to inundation |
| Landing | Jetty |
| Landing Ground | Aircraft facility |
| Landing platform | Jetty |
| Landing stage | Jetty |
| Landing strip | Aircraft facility |
| Landmark | Landmark |
| Launching ramp | Boat ramp |
| Lava flow | Distorted surface |
| Levee | Levee |
| Levee | Salt evaporator internal line |
| Levee | Settling pond internal line |

Commonly used term

| Lighthouse | Lighthouse |
|------------------------------------|-------------------------------|
| Lignun | Marine Swamp |
| Locality | Locality |
| Lock | Lock |
| Lookout | Landmark point |
| Lookout | Locality |
| Mainland | Mainland |
| Mangrove | Mangrove |
| Mangrove flat | Mangrove flat |
| Map area | Map area |
| Map mask | Map mask |
| Marina | Jetty |
| Marina pens | Jetty |
| Marine and Coastal Park | Reserve - Nature conservation |
| Marine Park | Reserve - Nature conservation |
| Marine Park/Defence Reserve | Reserve - Nature conservation |
| Marine Park/Fish Habitat Reserve | Reserve - Nature conservation |
| Marine Reserve | Reserve - Nature conservation |
| Marine swamp | Marine swamp |
| Marker - National route | Route marker - National |
| Marker - state route | Route marker - State |
| Marsh | Swamp |
| Marshalling yard | Railway |
| Mast | Landmark point |
| Microwave tower | Landmark point |
| Mill | Windpump |
| Mine | Mine |
| Mine - open cut | Open cut/Mining area |
| Mole | Breakwater |
| Monorail | Railway |
| Monument | Landmark point |
| Mountain | Locality |
| Mountain range | Locality |
| Muttonbird Reserve | Reserve - Nature conservation |
| National Highway marker | Route marker - National |
| National Park | Reserve - Nature conservation |
| National Park boundary | Reserve line |
| National Park/Fish Habitat Reserve | Reserve - Nature conservation |
| National Park/Water Supply Reserve | Reserve - Nature conservation |

Commonly used term

| National Park/Wetland Reserve | Reserve - Nature conservation |
|-------------------------------|-------------------------------|
| National route marker | Route marker - National |
| Native well | Waterpoint |
| Nature conservation reserve | Reserve - Nature conservation |
| Nature Park | Reserve - Nature conservation |
| Nature Reserve | Reserve - Nature conservation |
| Nature Reserve boundary | Reserve line |
| Neatline | Tile edge |
| Nomenclature | Annotation |
| Notation | Annotation |
| Nursery | Orchard or vineyard |
| Ocean | Sea |
| Offshore line | Offshore line |
| Offshore rock | Offshore rock |
| Offshore void | Offshore void |
| Oil pipeline | Pipeline |
| Oil refinery | Building |
| Oil refinery | Landmark area |
| Oil refinery | Storage tank |
| Oil storage tank | Storage tank |
| Oil well | Gas well |
| Open Cut | Open cut/Mining area |
| Open cut mine | Open cut/Mining area |
| Orchard | Orchard or vineyard |
| Outcamp | Locality |
| Outcamp | Locality |
| Outstation | Building |
| Outstation | Locality |
| Outstation | Locality |
| Oval | Park |
| Overflow | Spillway |
| Overpass | Road bridge |
| Overpass/underpass | Rail overpass |
| Overpass/underpass | Road overpass |
| Oxbow | Lake |
| Oxbow | Waterhole |
| Oxbow boundary | Waterline |
| Oxbow infill | Lake |

Commonly used term

| Oyster beds | Landmark area |
|-----------------------------|----------------------|
| Park | Park |
| Pass | Locality |
| Patch | Reef |
| Patent slipway | Boat ramp |
| Peak | Locality |
| Peninsula | Locality |
| Penstock | Pipeline |
| Pier | Jetty |
| Pine plantation | Plantation |
| Pinnacle | Pinnacle |
| Pipeline | Pipeline |
| Pipeline - gas | Pipeline |
| Pipeline - oil | Pipeline |
| Pipeline - other than water | Pipeline |
| Pipeline - water | Pipeline |
| Place name | Locality |
| Plantation | Orchard or vineyard |
| Point | Locality |
| Pond | Lake |
| Pond | Waterhole |
| Pond - settling | Settling ponds |
| Pond - tailing | Settling ponds |
| Pond boundary | Waterline |
| Pond infill | Lake |
| Pondage | Reservoir |
| Pontoon | Jetty |
| Pool | Lake |
| Pool | Waterhole |
| Pool | Waterpoint |
| Pool - swimming | Water tank |
| Pool infill | Lake |
| Populated place | Locality |
| Power transmission line | Powerline |
| Powerline | Powerline |
| Precipice | Cliff |
| Prohibited area | Prohibited area |
| Prohibited area boundary | Prohibited area line |
| Prohibited area line | Prohibited area line |

Commonly used term

| Prohibited area void | Prohibited area void |
|-----------------------------------|-------------------------------|
| Protected area | Reserve - Nature conservation |
| Punt | Ferry route |
| Punt crossing point | Ferry route |
| Quarantine area | Prohibited area |
| Quarry | Open cut/Mining area |
| Quay | Jetty |
| Racecourse | Park |
| Racetrack | Park |
| Railway | Railway |
| Railway bridge | Railway bridge |
| Railway causeway | Railway causeway |
| Railway station | Railway station |
| Railway tunnel | Railway tunnel |
| Rainforest | Rainforest |
| Rainforest - temperate | Rainforest |
| Rainforest - tropical | Rainforest |
| Rapid area line | Rapid area line |
| Rapids | Rapid |
| Razorback | Razorback |
| Recreation area | Park |
| Recreation Park (SA only) | Reserve - Nature conservation |
| Recreation Reserve | Reserve - Nature conservation |
| Recreation Reserve boundary | Reserve line |
| Reef | Offshore rock |
| Reef | Reef |
| Reef line | Offshore line |
| Reference Area | Reserve - Nature conservation |
| Regional Reserve | Reserve - Nature conservation |
| Relief area line | Relief area line |
| Relief area void | Relief area void |
| Research station | Landmark area |
| Reserve boundary - recreation | Reserve line |
| Reserved Indigenous Land boundary | Reserve line |
| Reserved line | Reserve line |
| Reserved void | Reserve void |
| Reservoir | Reservoir |
| Reservoir | Water tank |
| Reservoir boundary | Waterline |

Commonly used term

| Rest area | Landmark area |
|-------------------------------|-------------------------------|
| Ridge | Locality |
| Rifle range | Park |
| Ring road | Road |
| River | Watercourse |
| Road | Road |
| Road - abandoned | Road |
| Road - approximate position | Road |
| Road bridge | Road bridge |
| Road causeway | Road causeway |
| Road destination arrow | Road destination arrow |
| Road distance marker | Kilometric distance indicator |
| Road junction | Locality |
| Road on dam | Road on dam |
| Road tunnel | Road tunnel |
| Road underground | Road tunnel |
| Roadhouse | Building |
| Rock | Locality |
| Rock | Offshore rock |
| Rock | Pinnacle |
| Rock | Reef |
| Rock column | Pinnacle |
| Rock ledge | Offshore rock |
| Rock ledge | Reef |
| Rockhole | Waterpoint |
| Rocky outcrops | Rocky outcrop |
| Rodeo grounds | Park |
| Route marker - national | Route marker - National |
| Route marker - State | Route marker - State |
| Rubbish tip | Rubbish tip |
| Ruin | Building |
| Runway | Aircraft facility |
| Runway | Runway centreline |
| Runway boundary line | Aircraft facility line |
| Runway centreline | Runway centreline |
| Runway void | Aircraft facility void |
| Saline coastal flat | Saline coastal flat |
| Salt evaporator | Salt evaporator |
| Salt evaporator internal line | Salt evaporator internal line |

Commonly used term

| Saltpan | Lake |
|-----------------------------|-------------------------------|
| Saltpan boundary | Waterline |
| Saltpan infill | Lake |
| Saltworks | Salt evaporator |
| Sand | Sand |
| Sand dunes | Sand dunes |
| Sand pit | Open cut/Mining area |
| Sand ridge | Sand ridge |
| Sandridge | Sand ridge |
| Scarp | Cliff |
| Scenic Reserve | Reserve - Nature conservation |
| Scientific Area | Reserve - Nature conservation |
| Scientific Purposes Reserve | Reserve - Nature conservation |
| Scientific Reserve | Reserve - Nature conservation |
| Scrape | Open cut/Mining area |
| Scrub | Woody vegetation |
| Sea | Sea |
| Sea wall | Sea wall |
| Seismic line | Seismic line/Cleared line |
| Settlement | Built-up area |
| Settling pond internal line | Settling pond internal line |
| Settling ponds | Settling ponds |
| Sewage filtration beds | Settling ponds |
| Sewage treatment plant | Settling ponds |
| Shaft | Mine |
| Shipwreck | Wreck |
| Shoal | Offshore rock |
| Shoal | Reef |
| Shopping complex | Building |
| Shoreline | Waterline |
| Showgrounds | Park |
| Shrub | Woody vegetation |
| Siding | Railway |
| Silo | Landmark point |
| Sinkhole | Cave |
| Ski lift | Aerial cableway |
| Slip rails | Gate |
| Slipway | Boat ramp |
| Slurry pond | Settling ponds |

Commonly used term

| Smokestack | Landmark point |
|-----------------------------------|-------------------------------|
| Soak | Waterpoint |
| Solar farm | Landmark area |
| Solar panels | Landmark point |
| Spillway | Spillway |
| Spoil dump | Open cut/Mining area |
| Spot elevation | Spot elevation |
| Spot height | Spot elevation |
| Spring | Spring |
| Spur line | Railway |
| State border | State border |
| State Boundary | State border |
| State forest | Reserve - Forestry |
| State Forest boundary | Reserve line |
| State Park | Reserve - Nature conservation |
| State Park boundary | Reserve line |
| State Reserve | Reserve - Nature conservation |
| State route marker | Route marker - State |
| Station - railway | Railway station |
| Stilling basin | Settling pond |
| Stock grid | Cattle grid |
| Stock grid | Stock grid |
| Storage tank | Storage tank |
| Storage well | Storage tank |
| Stream | Watercourse |
| Subject to inundation area | Land subject to inundation |
| Submerged rock | Offshore rock |
| Submerged rock | Reef |
| Suburb | Built-up area |
| Swamp | Swamp |
| Swimming pool | Water tank |
| Tailing ponds | Settling ponds |
| Tailings dump | Open cut/Mining area |
| Tank | Water tank |
| Tank - storage (other than water) | Storage tank |
| Taxiway | Aircraft Facility Line |
| Temperate rainforest | Rainforest |
| Territory border | State border |
| Territory Boundary | State border |

Commonly used term

| Through route | Road |
|-----------------------------------|--------------------------|
| Tidal flat | Foreshore flat |
| Tidal power farm | Landmark area |
| Tile edge | Tile edge |
| Timber Reserve | Reserve - Forestry |
| Tollway | Road |
| Tor | Locality |
| Tower | Landmark point |
| Town | Built-up area |
| Track - foot | Foot track |
| Track - vehicle | Road |
| Track - walking | Foot track |
| Tracking station | Landmark area |
| Trail | Foot track |
| Training track | Park |
| Tramway | Railway |
| Transition point | Transition point |
| Transmission line - power | Powerline |
| Trig station | Horizontal control point |
| Tropic of Capricorn | Tropic of Capricorn |
| Tropical rainforest | Rainforest |
| Tunnel - railway | Railway tunnel |
| Tunnel - road | Road tunnel |
| Turkey nest | Water tank |
| Underground road | Road tunnel |
| Underpass | Road bridge |
| Vegetation | Woody vegetation |
| Vegetation - clear | Vegetation Void |
| Vegetation - dense | Woody vegetation |
| Vegetation - Forest | Woody vegetation |
| Vegetation - hedge | Windbreak |
| Vegetation - medium | Woody vegetation |
| Vegetation - nursery | Orchard or vineyard |
| Vegetation - orchard | Orchard or vineyard |
| Vegetation - pine plantation | Plantation |
| Vegetation - plantation | Orchard or vineyard |
| Vegetation - rainforest | Rainforest |
| Vegetation - temperate rainforest | Rainforest |
| Vegetation - tropical rainforest | Rainforest |

Commonly used term

| Vegetation - vineyard | Orchard or vineyard |
|------------------------------------|-------------------------------|
| Vegetation - windbreak | Windbreak |
| Vegetation line | Vegetation Line |
| Vegetation void | Vegetation Void |
| Vehicle track | Road |
| Vermin proof fence | Fence |
| Village | Built-up area |
| Vineyard | Orchard or vineyard |
| Walking track | Foot track |
| Waste disposal site | Rubbish tip |
| Water body boundary | Waterline |
| Water body void | Water body void |
| Water Catchment Area | Reserve - Water Supply |
| Water pipeline | Pipeline |
| Water supply Reserve | Reserve - Water supply |
| Water tank | Water tank |
| Waterbody island | Locality |
| Waterbody island | Waterbody void |
| Watercourse | Watercourse |
| Watercourse - double line | Lake |
| Watercourse - double line boundary | Waterline |
| Watercourse - double line infill | Lake |
| Waterfall | Waterfall |
| Waterhole | Lake |
| Waterhole | Waterhole |
| Waterhole boundary | Waterline |
| Waterhole infill | Lake |
| Waterline | Waterline |
| Waterpoint | Waterpoint |
| Weir | Dam |
| Well | Bore |
| Well - gas | Gas well |
| Well - oil | Gas well |
| Well - storage | Storage tank |
| Well - water | Bore |
| Well (native) | Waterpoint |
| Wetland | Swamp |
| Wetland Reserve | Reserve - Nature conservation |
| Wharf | Wharf |

Commonly used term

| White water | Rapid |
|--------------------|-------------------------------|
| Wilderness | Reserve - Nature conservation |
| Wildlife Sanctuary | Reserve - Nature conservation |
| Wind farm | Landmark area |
| Wind generator | Landmark point |
| Windbreak | Windbreak |
| Windmill | Windpump |
| Windpump | Windpump |
| Woodland | Woody vegetation |
| Woolshed | Building |
| Wreck | Wreck |
| Yard | Yard |

3. INCLUDED TERMS CROSS REFERENCE

Feature class

| Aerial cableway | Aerial Cableway |
|--------------------------|----------------------------|
| Aerial cableway | Cableway (aerial) |
| Aerial cableway | Chair lift |
| Aerial cableway | Ski lift |
| Aircraft facility | Aerodrome |
| Aircraft facility | Aircraft facility |
| Aircraft facility | Airport |
| Aircraft facility | Helipad |
| Aircraft facility | Heliport |
| Aircraft facility | Landing Ground |
| Aircraft facility | Landing strip |
| Aircraft facility | Runway |
| Aircraft facility line | Aircraft facility line |
| Aircraft facility line | Runway boundary line |
| Aircraft facility line | Taxiway |
| Aircraft facility void | Runway void |
| Airport | Aerodrome |
| Airport | Airport |
| Annotation | Annotation |
| Annotation | Nomenclature |
| Annotation | Notation |
| Bench mark | Bench mark |
| Bench mark | Control point - bench mark |
| Boat ramp | Boat ramp |
| Boat ramp | Launching ramp |
| Boat ramp | Patent slipway |
| Boat ramp | Slipway |
| Bore | Bore |
| Bore | Well |
| Bore | Well - water |
| Boundary - International | International boundary |
| Boundary International | Boundary International |
| Breakwater | Breakwater |
| Breakwater | Groyne |

Feature Class

| Breakwater | Mole |
|--------------------|---|
| Building | Aboriginal Community (Indigenous Community) |
| Building | Building |
| Building | Building - factory |
| Building | Building - hospital |
| Building | Building - ruin |
| Building | Building - shopping complex |
| Building | Factory |
| Building | Hospital |
| Building | Hut |
| Building | Oil Refinery |
| Building | Outstation |
| Building | Roadhouse |
| Building | Ruin |
| Building | Shopping complex |
| Building | Woolshed |
| Building line | Building line |
| Builtup area | Aboriginal community (indigenous community) |
| Built-up area | Built-up area |
| Built-up area | City |
| Built-up area | Settlement |
| Built-up area | Suburb |
| Built-up area | Town |
| Built-up area | Village |
| Built-up area line | Built-up area line |
| Built-up area void | Built-up area void |
| Canal | Aqueduct |
| Canal | Bore drain |
| Canal | Canal |
| Canal | Channel |
| Canal | Culvert |
| Canal | Drain |
| Cave | Blowhole |
| Cave | Cave |
| Cave | Cavern |
| Cave | Doline |
| Cave | Sinkhole |

Feature Class

| Cemetery | Cemetery |
|-------------------|--------------------------|
| Cemetery | Graveyard |
| Cliff | Bluff |
| Cliff | Breakaway |
| Cliff | Cliff |
| Cliff | Escarpment |
| Cliff | Jump-up |
| Cliff | Precipice |
| Cliff | Scarp |
| Connector | Connector |
| Contour | Contour |
| Conveyor | Conveyor |
| Conveyor | Conveyor belt |
| Crater | Crater |
| Cutting | Cut |
| Cutting | Cutting |
| Dam | Barrage |
| Dam | Dam |
| Dam | Dam - carrying road |
| Dam | Weir |
| Distorted surface | Distorted surface |
| Distorted surface | Gilgai |
| Distorted surface | Lava flow |
| Dry dock | Dry dock |
| Dry dock | Floating dry dock |
| Dry dock | Graving dock |
| Embankment | Embankment |
| Feature pointer | Feature identifier arrow |
| Feature pointer | Feature pointer |
| Fence | Dog fence |
| Fence | Fence |
| Fence | Fence - dog |
| Fence | Fence - vermin proof |
| Fence | Vermin proof fence |
| Ferry route | Ferry |
| Ferry route | Ferry crossing |
| Ferry route | Ferry route |
| Ferry route | Hovercraft route |

Feature Class

| Ferry route | Hydrofoil route |
|--------------------------|------------------------------|
| Ferry route | Punt |
| Ferry route | Punt crossing point |
| Foot bridge | Bridge - foot |
| Foot bridge | Foot bridge |
| Foot track | Bridle path |
| Foot track | Foot path |
| Foot track | Foot track |
| Foot track | Track - foot |
| Foot track | Track - walking |
| Foot track | Trail |
| Foot track | Walking track |
| Ford | Ford |
| Foreshore flat | Foreshore flat |
| Foreshore flat | Intertidal flat |
| Foreshore flat | Tidal flat |
| Woody vegetation | Forest |
| Woody vegetation | Scrub |
| Woody vegetation | Shrub |
| Woody vegetation | Vegetation |
| Woody vegetation | Vegetation - dense |
| Woody vegetation | Vegetation - Forest |
| Woody vegetation | Vegetation - medium |
| Woody vegetation | Woodland |
| Gas well | Gas well |
| Gas well | Oil well |
| Gas well | Well - gas |
| Gas well | Well - oil |
| Gate | Boom gate |
| Gate | Bush gate |
| Gate | Gate |
| Gate | Gateway |
| Gate | Slip rails |
| Graticule line | Graticule line |
| Grid line | Grid line |
| Horizontal control point | Control point - horizontal |
| Horizontal control point | Control point - trig station |
| Horizontal control point | Horizontal control point |

Feature Class

| Horizontal control point | Trig station |
|-------------------------------|----------------------------------|
| Hypsometric area | Hypso area |
| Island | Cay |
| Island | Island |
| Jetty | Dock |
| Jetty | Ferry terminal |
| Jetty | Jetty |
| Jetty | Landing |
| Jetty | Landing platform |
| Jetty | Landing stage |
| Jetty | Marina |
| Jetty | Marina pens |
| Jetty | Pier |
| Jetty | Pontoon |
| Jetty | Quay |
| Junction | Junction |
| Kilometric distance indicator | Distance indicator |
| Kilometric distance indicator | Kilometric distance indicator |
| Kilometric distance indicator | Kilometric distances |
| Kilometric distance indicator | Road distance marker |
| Lake | Billabong |
| Lake | Claypan |
| Lake | Double line watercourse |
| Lake | Double line watercourse infill |
| Lake | Lagoon |
| Lake | Lagoon infill |
| Lake | Lake |
| Lake | Lake infill |
| Lake | Oxbow |
| Lake | Oxbow infill |
| Lake | Pond |
| Lake | Pond infill |
| Lake | Pool |
| Lake | Pool infill |
| Lake | Saltpan |
| Lake | Saltpan infill |
| Lake | Watercourse - double line |
| Lake | Watercourse - double line infill |

Feature Class

| Lake | Waterhole |
|----------------------------|-----------------------------------|
| Lake | Waterhole infill |
| Land subject to inundation | Area subject to inundation |
| Land subject to inundation | Inundation area |
| Land subject to inundation | Land subject to inundation |
| Land subject to inundation | Subject to inundation area |
| Landmark | Landmark |
| Landmark area | Aquaculture pens (non land based) |
| Landmark area | Cotton Gin (seasonal) |
| Landmark area | Geothermal Power Station |
| Landmark area | Oil refinery |
| Landmark area | Oyster Beds |
| Landmark area | Research station |
| Landmark area | Rest Area |
| Landmark area | Solar Farm |
| Landmark area | Tidal Power Farm |
| Landmark area | Tracking Station |
| Landmark area | Wind Farm |
| Landmark point | Automatic weather station |
| Landmark point | Beacon |
| Landmark point | Chimney |
| Landmark point | Cooling tower |
| Landmark point | Fire tower |
| Landmark point | Lookout |
| Landmark point | Mast |
| Landmark point | Microwave tower |
| Landmark point | Monument |
| Landmark point | Silo |
| Landmark point | Smokestack |
| Landmark point | Solar panels |
| Landmark point | Tower |
| Landmark point | Wind generator |
| Levee | Levee |
| Lighthouse | Lighthouse |
| Locality | Bay |
| Locality | Beach |
| Locality | Саре |

Feature Class

| Locality | Cemetery |
|---------------|------------------|
| Locality | Cove |
| Locality | Gap |
| Locality | Gorge |
| Locality | Grave |
| Locality | Headland |
| Locality | Hill |
| Locality | Homestead |
| Locality | Inlet |
| Locality | Knob |
| Locality | Locality |
| Locality | Lookout |
| Locality | Mountain |
| Locality | Mountain Range |
| Locality | Outcamp |
| Locality | Outcamp |
| Locality | Outstation |
| Locality | Outstation |
| Locality | Pass |
| Locality | Peak |
| Locality | Peninsula |
| Locality | Place Name |
| Locality | Point |
| Locality | Populated Place |
| Locality | Ridge |
| Locality | Road Junction |
| Locality | Rock |
| Locality | Tor |
| Locality | Waterbody Island |
| Lock | Boat lift |
| Lock | Lock |
| Mainland | Mainland |
| Mangrove | Mangrove |
| Mangrove flat | Mangrove flat |
| Map area | Map area |
| Map mask | Map mask |
| Marine swamp | Cane grass |

Feature Class

| Marine swamp | Lignun |
|----------------------|-------------------------|
| Marine swamp | Marine swamp |
| Mine | Digging |
| Mine | Mine |
| Mine | Shaft |
| Offshore line | Foreshore flat line |
| Offshore line | Offshore line |
| Offshore line | Reef line |
| Offshore rock | Coral |
| Offshore rock | Offshore rock |
| Offshore rock | Reef |
| Offshore rock | Rock |
| Offshore rock | Rock ledge |
| Offshore rock | Shoal |
| Offshore rock | Submerged rock |
| Offshore void | Offshore void |
| Open cut/Mining area | Claypit |
| Open cut/Mining area | Digging |
| Open cut/Mining area | Gravel pit |
| Open cut/Mining area | Mine - open cut |
| Open cut/Mining area | Open Cut |
| Open cut/Mining area | Open cut mine |
| Open cut/Mining area | Quarry |
| Open cut/Mining area | Sand pit |
| Open cut/Mining area | Scrape |
| Open cut/Mining area | Spoil dump |
| Open cut/Mining area | Tailings dump |
| Orchard or vineyard | Nursery |
| Orchard or vineyard | Orchard |
| Orchard or vineyard | Plantation |
| Orchard or vineyard | Vegetation - nursery |
| Orchard or vineyard | Vegetation - orchard |
| Orchard or vineyard | Vegetation - plantation |
| Orchard or vineyard | Vegetation - vineyard |
| Orchard or vineyard | Vineyard |
| Park | Civic square |
| Park | Gardens |
| Park | Golf course |

Feature Class

| Park | Oval |
|----------------------|------------------------------|
| Park | Park |
| Park | Racecourse |
| Park | Racetrack |
| Park | Recreation area |
| Park | Rifle range |
| Park | Rodeo grounds |
| Park | Showgrounds |
| Park | Training track |
| Plantation | Pine plantation |
| Plantation | Vegetation - pine plantation |
| Pinnacle | Boulder |
| Pinnacle | Butte |
| Pinnacle | Pinnacle |
| Pinnacle | Rock |
| Pinnacle | Rock column |
| Pipeline | Gas pipeline |
| Pipeline | Oil pipeline |
| Pipeline | Penstock |
| Pipeline | Pipeline |
| Pipeline | Pipeline - gas |
| Pipeline | Pipeline - oil |
| Pipeline | Pipeline - other than water |
| Pipeline | Pipeline - water |
| Pipeline | Water pipeline |
| Powerline | Power transmission line |
| Powerline | Powerline |
| Powerline | Transmission line - power |
| Prohibited area | Defence area |
| Prohibited area | Defence Reserve |
| Prohibited area | Prohibited area |
| Prohibited area | Quarantine area |
| Prohibited area line | Boundary - Prohibited area |
| Prohibited area line | Boundary Defence Force |
| Prohibited area line | Defence Force boundary |
| Prohibited area line | Prohibited area boundary |
| Prohibited area line | Prohibited area line |
| Prohibited area void | Prohibited area void |

Feature Class

| Rail overpass | Overpass/underpass |
|------------------|-----------------------------------|
| Railway | Marshalling yard |
| Railway | Monorail |
| Railway | Railway |
| Railway | Siding |
| Railway | Spur line |
| Railway | Tramway |
| Railway bridge | Bridge - railway |
| Railway bridge | Railway bridge |
| Railway causeway | Causeway - rail |
| Railway causeway | Railway causeway |
| Railway station | Railway station |
| Railway station | Station - railway |
| Railway tunnel | Railway tunnel |
| Railway tunnel | Tunnel - railway |
| Rainforest | Rainforest |
| Rainforest | Rainforest - temperate |
| Rainforest | Rainforest - tropical |
| Rainforest | Temperate rainforest |
| Rainforest | Tropical rainforest |
| Rainforest | Vegetation - rainforest |
| Rainforest | Vegetation - temperate rainforest |
| Rainforest | Vegetation - tropical rainforest |
| Rapid | Rapids |
| Rapid | White water |
| Rapid area line | Rapid area line |
| Razorback | Razorback |
| Reef | Bank |
| Reef | Cay |
| Reef | Coral |
| Reef | Patch |
| Reef | Reef |
| Reef | Rock |
| Reef | Rock ledge |
| Reef | Shoal |
| Reef | Submerged rock |
| Relief area line | Relief area line |
| Relief area void | Relief area void |

Feature Class

| Reserve - Forestry | Forest Park |
|-------------------------------|---|
| Reserve - Forestry | Forest Reserve |
| Reserve - Forestry | State forest |
| Reserve - Forestry | Timber Reserve |
| Reserve - Indigenous area | Aboriginal Reserve (Indigenous Reserve) |
| Reserve - Nature conservation | Aboriginal Area (Indigenous Area) |
| Reserve - Nature conservation | Aboriginal Place (Indigenous Place) |
| Reserve - Nature conservation | Aboriginal Site (Indigenous Site) |
| Reserve - Nature conservation | Alpine Reserve |
| Reserve - Nature conservation | Aquatic Reserve |
| Reserve - Nature conservation | Coastal Park |
| Reserve - Nature conservation | Coastal Reserve |
| Reserve - Nature conservation | Conservation Area |
| Reserve - Nature conservation | Conservation Park |
| Reserve - Nature conservation | Conservation Reserve |
| Reserve - Nature conservation | Environmental Park |
| Reserve - Nature conservation | Fauna Reserve |
| Reserve - Nature conservation | Fauna Sanctuary |
| Reserve - Nature conservation | Fish Habitat Reserve |
| Reserve - Nature conservation | Flora and Fauna Reserve |
| Reserve - Nature conservation | Flora Reserve |
| Reserve - Nature conservation | Game Reserve |
| Reserve - Nature conservation | Historical Area |
| Reserve - Nature conservation | Marine and Coastal Park |
| Reserve - Nature conservation | Marine Park |
| Reserve - Nature conservation | Marine Park/Defence Reserve |
| Reserve - Nature conservation | Marine Park/Fish Habitat Reserve |
| Reserve - Nature conservation | Marine Reserve |
| Reserve - Nature conservation | Muttonbird Reserve |
| Reserve - Nature conservation | National Park |
| Reserve - Nature conservation | National Park/Fish Habitat Reserve |
| Reserve - Nature conservation | National Park/Water Supply Reserve |
| Reserve - Nature conservation | National Park/Wetland Reserve |
| Reserve - Nature conservation | Nature conservation reserve |
| Reserve - Nature conservation | Nature Park |
| Reserve - Nature conservation | Nature Reserve |
| Reserve - Nature conservation | Protected area |
| Reserve - Nature conservation | Recreation Park (SA only) |

Feature Class

| Reserve - Nature conservation Reserve - Nature Reserve Reserve line Boundary - National Park Reserve line Boundary - Nature Reserve Reserve line Reserve line Boundary - Reserved area Reserve line Boundary - Reserved Indigenous Land Reserve line Reserve line Boundary - State Forest Reserve line Boundary - State Forest Reserve line Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary - Water Catchment Area Reserve line Reserve line Boundary - Water Catchment Area |
|--|
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water Supply Reserve - Water supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water Supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water Supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Nature conservation State Park Reserve - Nature conservation Reserve - Water Supply Reserve - Water Supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water Supply Reserve - Water supply Reserve line Boundary - National Park Reserve line Boundary - Nature Reserve Reserve line Boundary - Recreation Reserve Reserve line Boundary - Reserved area Reserve line Boundary - Reserved Indigenous Land Reserve line Boundary - State Forest Reserve line Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary - State Park Reserve line Boundary - Water Catchment Area |
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water Supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Nature conservation Reserve - Nature conservation Reserve - Nature conservation Reserve - Water Supply Reserve - Water supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Nature conservation Reserve - Water Supply Reserve - Water supply Reserve - Water supply Reserve line |
| Reserve - Nature conservation Reserve - Water Supply Reserve - Water supply Reserve - Water supply Reserve line |
| Reserve - Water Supply Reserve - Water supply Reserve - Water supply Reserve - Water supply Reserve line |
| Reserve - Water supply Reserve line |
| Reserve line Reserve line Boundary - Nature Reserve Reserve line Boundary - Recreation Reserve Reserve line Boundary - Reserved area Boundary - Reserved Indigenous Land Reserve line Boundary - Scenic Reserve Reserve line Boundary - State Forest Reserve line Boundary - State Forest Reserve line Boundary - Water Catchment Area Reserve line Boundary Conservation Area Reserve line Boundary Flora Reserve Reserve line Boundary Flora Reserve |
| Reserve line |
| Reserve line Reserve line Boundary - Recreation Reserve Boundary - Reserved area Boundary - Reserved Indigenous Land Reserve line Boundary - Scenic Reserve Reserve line Boundary - State Forest Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary Conservation Area Reserve line Boundary Fauna Reserve Reserve line Boundary Fauna Reserve |
| Reserve line Reserve line Boundary - Reserved area Boundary - Reserved Indigenous Land Reserve line Boundary - Scenic Reserve Reserve line Boundary - State Forest Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary Conservation Area Reserve line Boundary Fauna Reserve Reserve line Boundary Flora Reserve |
| Reserve line Reserve line Boundary - Reserved Indigenous Land Boundary - Scenic Reserve Reserve line Boundary - State Forest Reserve line Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary Conservation Area Reserve line Boundary Fauna Reserve Reserve line Boundary Flora Reserve |
| Reserve line Reserve line Boundary - Scenic Reserve Boundary - State Forest Boundary - State Park Boundary - Water Catchment Area Boundary - Water Catchment Area Boundary Conservation Area Boundary Fauna Reserve Boundary Flora Reserve |
| Reserve line Reserve line Boundary - State Forest Boundary - State Park Reserve line Boundary - Water Catchment Area Reserve line Boundary Conservation Area Reserve line Boundary Fauna Reserve Reserve line Boundary Flora Reserve |
| Reserve line Reserve line Boundary - State Park Boundary - Water Catchment Area Reserve line Boundary Conservation Area Reserve line Boundary Fauna Reserve Reserve line Boundary Flora Reserve |
| Reserve line Reserve line Boundary - Water Catchment Area Boundary Conservation Area Boundary Fauna Reserve Boundary Flora Reserve |
| Reserve line Boundary Conservation Area Reserve line Boundary Fauna Reserve Reserve line Boundary Flora Reserve |
| Reserve line Boundary Fauna Reserve Reserve line Boundary Flora Reserve |
| Reserve line Boundary Flora Reserve |
| · · · · · · · · · · · · · · · · · · · |
| |
| Reserve line Boundary Forest Reserve |
| Reserve line Boundary Game Reserve |
| Reserve line Boundary Historical Area |
| Reserve line Conservation Area boundary |
| Reserve line Game Reserve boundary |
| Reserve line Historical Area boundary |
| Reserve line National Park boundary |
| Reserve line Nature Reserve boundary |
| Reserve line Recreation Reserve boundary |
| Reserve line Reserve boundary - recreation |
| Reserve line Reserved Aboriginal Land boundary |
| Reserve line Reserved line |

Feature Class

| Reserve line | State Forest boundary |
|-------------------------|-----------------------------|
| Reserve line | State Park boundary |
| Reserve void | Reserved void |
| Reservoir | Artificial lake |
| Reservoir | Lake - artificial |
| Reservoir | Pondage |
| Reservoir | Reservoir |
| Road | Abandoned road |
| Road | Connecting road |
| Road | Divided road |
| Road | Freeway |
| Road | Highway |
| Road | Ring road |
| Road | Road |
| Road | Road - abandoned |
| Road | Road - approximate position |
| Road | Through route |
| Road | Tollway |
| Road | Track - vehicle |
| Road | Vehicle track |
| Road bridge | Bridge - road |
| Road bridge | Overpass |
| Road bridge | Road bridge |
| Road bridge | Underpass |
| Road causeway | Causeway - road |
| Road causeway | Floodway |
| Road causeway | Road causeway |
| Road destination arrow | Destination arrow - road |
| Road destination arrow | Road destination arrow |
| Road on dam | Road on dam |
| Road overpass | Overpass/underpass |
| Road tunnel | Road tunnel |
| Road tunnel | Road underground |
| Road tunnel | Tunnel - road |
| Road tunnel | Underground road |
| Rocky outcrop | Boulder field |
| Rocky outcrop | Rocky outcrops |
| Route marker - National | |

Feature Class

| Route marker - National | National Highway marker |
|-------------------------------|-------------------------------|
| Route marker - National | National route marker |
| Route marker - National | Route marker - national |
| Route marker - State | Marker - state route |
| Route marker - State | Route marker - State |
| Route marker - State | State route marker |
| Rubbish tip | Rubbish tip |
| Rubbish tip | Waste disposal site |
| Runway centreline | Runway |
| Runway centreline | Runway centreline |
| Saline coastal flat | Backshore |
| Saline coastal flat | Saline coastal flat |
| Salt evaporator | Salt evaporator |
| Salt evaporator | Saltworks |
| Salt evaporator internal line | Canal |
| Salt evaporator internal line | Levee |
| Salt evaporator internal line | Salt evaporator internal line |
| Sand | Beach |
| Sand | Sand |
| Sand dunes | Barchan dunes |
| Sand dunes | Crescent dunes |
| Sand dunes | Dunes - barchan |
| Sand dunes | Dunes - crescent |
| Sand dunes | Dunes - sand |
| Sand dunes | Sand dunes |
| Sand ridge | Dunes - longitudinal |
| Sand ridge | Sand ridge |
| Sand ridge | Sandridge |
| Sea | Ocean |
| Sea | Sea |
| Sea wall | Sea wall |
| Seismic line/Cleared line | Cleared line |
| Seismic line/Cleared line | Seismic line |
| Settling pond | Fish hatchery |
| Settling pond | Fish pen |
| Settling pond | Stilling basin |
| Settling pond internal line | Levee |
| Settling pond internal line | Settling pond internal line |

Feature Class

| Settling ponds | Aquaculture pond |
|---------------------|-----------------------------------|
| Settling ponds | Pond - settling |
| Settling ponds | Pond - tailing |
| Settling ponds | Settling ponds |
| Settling ponds | Sewage filtration beds |
| Settling ponds | Sewage treatment plant |
| Settling ponds | Slurry pond |
| Settling ponds | Tailing ponds |
| Spillway | Diversion cut |
| Spillway | Overflow |
| Spillway | Spillway |
| Spot elevation | Spot elevation |
| Spot elevation | Spot height |
| Spring | Spring |
| State border | Border - State or Territory |
| State border | Boundary - State |
| State border | Boundary - State or Territory |
| State border | Boundary - Territory |
| State border | State border |
| State border | State Boundary |
| State border | Territory border |
| State border | Territory Boundary |
| Stock grid | Grid |
| Stock grid | Stock grid |
| Storage tank | Oil refinery |
| Storage tank | Oil storage tank |
| Storage tank | Storage tank |
| Storage tank | Storage well |
| Storage tank | Tank - storage (other than water) |
| Storage tank | Well - storage |
| Swamp | Marsh |
| Swamp | Swamp |
| Swamp | Wetland |
| Tile edge | Neatline |
| Tile edge | Tile edge |
| Transition point | Transition point |
| Tropic of Capricorn | Tropic of Capricorn |
| | Tropic of Capricoffi |

Feature Class

| Vegetation Void | Vegetation - clear |
|-----------------|----------------------------------|
| Vegetation Void | Vegetation void |
| Water body void | Water body void |
| Water tank | Aquarium |
| Water tank | Fish pond |
| Water tank | Homestead tank |
| Water tank | Pool - swimming |
| Water tank | Reservoir |
| Water tank | Swimming pool |
| Water tank | Tank |
| Water tank | Turkey nest |
| Water tank | Water tank |
| Waterbody void | Waterbody island |
| Watercourse | Brook |
| Watercourse | Cowal |
| Watercourse | Creek |
| Watercourse | Gully |
| Watercourse | River |
| Watercourse | Stream |
| Watercourse | Watercourse |
| Waterfall | Cascade |
| Waterfall | Cataracts |
| Waterfall | Falls |
| Waterfall | Waterfall |
| Waterhole | Billabong |
| Waterhole | Lagoon |
| Waterhole | Oxbow |
| Waterhole | Pond |
| Waterhole | Pool |
| Waterhole | Waterhole |
| Waterline | Billabong boundary |
| Waterline | Claypan boundary |
| Waterline | Coastline |
| Waterline | Double line watercourse boundary |
| Waterline | Lagoon boundary |
| Waterline | Lake boundary |
| Waterline | Oxbow boundary |
| Waterline | Pond boundary |

Feature Class

| Waterline | Reservoir boundary |
|------------|------------------------------------|
| Waterline | Saltpan boundary |
| Waterline | Shoreline |
| Waterline | Water body boundary |
| Waterline | Watercourse - double line boundary |
| Waterline | Waterhole boundary |
| Waterline | Waterline |
| Waterpoint | Gnamma hole |
| Waterpoint | Lake |
| Waterpoint | Native well |
| Waterpoint | Pool |
| Waterpoint | Rockhole |
| Waterpoint | Soak |
| Waterpoint | Waterpoint |
| Waterpoint | Well (native) |
| Wharf | Wharf |
| Windbreak | Hedge |
| Windbreak | Hedgerow |
| Windbreak | Vegetation - hedge |
| Windbreak | Vegetation - windbreak |
| Windbreak | Windbreak |
| Windpump | Mill |
| Windpump | Windmill |
| Windpump | Windpump |
| Wreck | Shipwreck |
| Wreck | Wreck |
| Yard | Yard |

4. Feature Class Dictionary

Feature classes are listed in alphabetical order commencing on the next page.

AERIAL CABLEWAY

A conveyor system in which carrier units run on wire cables strung between supports.

Dimensions Area (sq m)

Length Height 100K 250K

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain |
|------------------------------------|-----------|
| Planimetric Accuracy | 100 / 40 |
| Feature code | chairlift |
| Coverage (see Section 3 chapter 4) | u |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of aerial cableway

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 30

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

GEODATA

Мар

A descriptive note is to be added e.g. 'chairlift'.

| Data rules | | |
|------------------|--|---|
| | | · |
| | | |
| Related features | | |
| Conveyor | | |
| | | |
| Related chapters | | |
| | | · |

AIRCRAFT FACILITY

A paved or cleared strip on which aircraft take off and land.

Minimum Size for Inclusion

| Dimens | ions | Area (sq m) | | |
|--------|--------|-------------|------|--|
| Length | Height | 100K | 250K | |
| | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | Polygon |
|------------------------------------|--------------|-------------|
| Planimetric Accuracy | 100 / / 9999 | |
| Feature code | aircrft_flty | aircrft_f_a |
| Coverage (see Section 3 chapter 4) | а | Z |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of aircraft facility.

AIRCRAFT FACILITY TYPE (facility) [integer; 1,1,I] Code for type of facility being

- 1 Airport (a licensed facility)
- 2 Landing Ground (other facilities)
- 3 Heliport

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

featcode aircraft flty

<tile-id>1 - Facility Type 1

<tile-id>4 - Facility Type 2 or 3

featcode aircrft_f_a

<tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable:

Point symbols;

701 : Airport (circle @ 250K)

703: Landing Ground

708: Heliport

0 : non printing for landing grounds on very small islands or helipads at 1:100000 where symbolisation can not occur do to rules set out in general notes

Polygon;

700 : Airport & Landing Ground (area @ 100K)

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

Attribute for point only.

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360

Attribute for point only. Features Aircraft facility type: Airport and Heliport have orientation of 0.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15). Attribute for point only.

General Notes

Only operational Aircraft Facilities found in the revision source material supplied for Aircraft Facilities and are clearly visible on imagery, will be included regardless of whether it was shown on/in the base material/digital data.

Only operational facilities will be shown. Abandoned facilities will not be shown.

The classification of facilities will be done according to the Enroute Supplement Australia published by the Airservices Australia and supplied as revision source material.

Only facilities shown as licensed in the Enroute Supplement are to be classified as airports. If the facility is not listed in the supplement or is listed as unlicensed it will be classified as a landing ground, with the feature and attribute reliabilities of the supplement or the base material/digital data respectively.

Only civilian licensed facilities will be named. Military facilities and unlicensed facilities will not be named.

Where an Aerodrome Reference Point (ARP) symbol is shown on the Enroute supplement diagram, the Aircraft facility point will be at the geographic coordinates given in the supplement. Where no ARP symbol exists in the Enroute supplement, the feature will be centred on the longest runway.

All runway centrelines for all licenced aircraft facilities will be captured.

Runway centrelines >457 metres (1500 feet) will be captured for unlicenced aircraft facilities.

At 1:100000 Helipads will be included within the boundaries of another Aircraft facility, a Builtup Area or a Park Polygon, however it will only be symbolised if space and cartographic generalisation permits.

At 1:250000 Helipads will be not be captured when they exist within the boundaries of another Aircraft Facility, Builtup Area or Park polygon.

At 1:100 000 Runways and Landing Grounds drawn to scale will be formed using parallel lines and should give the appearance of right angles at each end.

GEODATA

This feature will be shown as a point in the 1:250 000 product and a combination of polygon, chain and point in the 1:100 000 product (see section 1 chapter 3.8.10 Aircraft Facilities).

Map

For Landing grounds the orientation of the runway will be shown. If there is more than one runway the orientation of the main runway will be shown.

For named Aircraft Facilities, 'Airport' or 'Aerodrome' will be included in the name. The form used will be that used on the latest previous edition map. If the Aircraft Facility was not previously named 'Aerodrome' will be used.

Military aircraft facilities will be symbolised in the same way as civil facilities, but will not be named nor given any other indication of their military nature.

1:100 000:

All land airports and landing grounds will be drawn to scale with the landing strips or runways and taxiways outlined and correctly oriented. All polygon runways and landing grounds should have the appearance that they are formed using parallel lines and right angles at each end. All landing grounds will be labelled with a descriptive note "landing ground"

1:250 000:

For Airports the position, length and orientation of sealed runways will be shown. If there are no sealed runways, only the length and orientation of the main unsealed runway will be shown. See Runway centreline feature.

Data rules

The polygon feature will be bounded by an Aircraft facility line.

Related features

Aircraft facility line, Airport, Runway centreline, Taxiway and Tile edge

Related chapters

Section 1 chapter 3.8.10 Section 3 chapters 3.2.4 and 5.9

AIRCRAFT FACILITY LINE

A line defining the limits of an airfield, airport or the edge of runways, taxiways or aprons.

| Mi | nimum Siz | e for Inclus | sion | | Scales | Feature Usage |
|----------|---------------------------|--|---------------------|-----------------------------------|----------------------------------|-----------------------|
| | Dimens | sions | Area | (sq m) | 1:100 000 | GEODATA & Map |
| | Length | Height | 100K | 250K | | Мар |
| | | | | | | |
| Sp | atial objec | t | | | • | |
| | Represent | tation | | Chain | | |
| | - | c Accuracy | | - / 40 | | |
| | Feature co | ode | | aircrft_f_l | | |
| | Coverage | (see Sectio | n 3 chapter | 4) z | | |
| Da | ta Attribut | es | | | | |
| G | ODATA ar | nd working c | latabase | | | |
| Se | | | | character; 8,8, chapter 5.14); | C] Pointer to attribute and feat | ture reliability (see |
| <u>W</u> | orking datal | base only | | | | |
| Sy | mbol numb 2 : surround | mbol) [binar] er applicabl ding Aircraft ding Airport | le: Facility & A | Aircraft Facility | Void Polygons | |
| Ge | eneral Note | es | | | | |
| | | | | | | |
| GE | ODATA | | | | | |
| | | | | | | |
| Ma | ар | | | | | |
| | | | | | | |
| Da | ta rules | | | | | |
| Вс | unds the Ai | ircraft facility | y, Airport ar | nd Aircraft facil | ity void polygons. | |
| Re | lated featu | ires | | | | |
| Aiı | craft facility | , Aircraft fac | cility void, A | irport, Taxiwa | y and Vegetation line | |

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

Related chapters

Section 1 chapter 3.8.10 Section 3 chapter 5.11.2

AIRCRAFT FACILITY VOID

A void in an Aircraft facility polygon.

| Minimum Size for Inclusion | | Scales | Feature Usage |
|---|--------------------------------|----------------------------|----------------------|
| Dimensions Area (sq n | ٦) | 1:100 000 | GEODATA |
| Length Height 100K 25 | 50K | | |
| Spatial object | | | |
| Representation Planimetric Accuracy Feature code Coverage (see Section 3 chapter 4) | Polygon - / 9999 airc_f_void z | | |
| Data Attributes GEODATA and working database | | | |
| DATA QUALITY POINTER (q_info) [chark Section 1 chapter 3.5 and Section 3 chap <tile-id>2 Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 0 General Notes</tile-id> | | ter to attribute and featu | ure reliability (see |
| | | | |
| GEODATA | | | |
| | | | |
| Мар | | | |
| | | | |
| Data rules | | | |
| Will be bounded by an Aircraft facility line | | | |
| Related features | | | |
| Aircraft facility line and Tile edge | | | |
| Related chapters Section 1 chapters 3.8.2 and 3.8.10 | | | |

Feature Usage

AIRPORT

An area reserved for aircraft operations, excluding landing strips, runways and associated voids.

Scales

| Dimensions | Area (| sq m) | | 1:100 (| 000 | GEODATA |
|---|-----------------|---------------|----------|--------------|-----------|-------------------------|
| Length Height | 100K | 250K | | | | |
| | | | | | | |
| | | | | | | |
| Spatial object | | | | | | |
| Representation | | Polygon | | | | |
| Planimetric Accuracy | | - / 9999 | | | | |
| Feature code | | airport_a | | | | |
| Coverage (see Section | n 3 chapter | 4) z | | | | |
| | | | | | | |
| Data Attributes | l - (- 1, | | | | | |
| GEODATA and working d | <u>latabase</u> | | | | | |
| DATA QUALITY POINTE | | | C] Point | er to attrib | ute and f | eature reliability (see |
| Section 1 chapter 3.5 and <tile-id>2</tile-id> | Section 3 c | hapter 5.14); | | | | |
| Auto 1de L | | | | | | |
| Working database only | | | | | | |
| | | | | | | |
| SYMBOL (symbol) [binary Symbol number applicable | | | | | | |
| 0 | С. | | | | | |
| General Notes | | | | | | |
| Abandoned airports will no | ot be shown | | | | | |
| GEODATA | | | | | | |
| GLODATA | | | | | | |
| | | | | | | |
| Мар | | | | | | |
| | | | | | | |
| Data rules | | | | | | |
| Will be bounded by an Air | craft facility | line. | | | | |
| Related features | | | | | | |
| Aircraft facility, Aircraft fac | cility line and | tile edge | | | | |
| - | | - | | | | |
| Related chapters Section 1 chapter 3.8.10 | | | | | | |

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

Minimum Size for Inclusion

ANNOTATION

Type that appears on the map.

| Minimum Size for Inclusion | 1 | Scales | Feature Usage |
|---|---------------------------|-------------------------|------------------------------|
| Dimensions | Area (sq m) | 1:250 000 | 0 Мар |
| Length Height | 100K 250K | 1:100 000 | 0 |
| Length Height | 25010 | | |
| | | J | |
| Spatial object | | | |
| Representation | Annotati | ion | |
| Planimetric Accuracy | 7 | | |
| Feature code | | | |
| Coverage (see Section 3 | chapter 4) 5 and 6 | | |
| | | | |
| Data Attributes | | | |
| GEODATA and working data | <u>ibase</u> | | |
| | | | |
| Manting database anti- | | | |
| Working database only | | | |
| Type size (\$SIZE) Type point si 1:250 000 eg. where point si Section 2 chapter 9 is 35 me be 350. | ze is 10 point, \$SIZE | will be 875. Type poi | int size as specified in |
| Text to be printed (\$TEXT) 7 | his attribute will not in | nclude "\" (backslash c | haracters) |
| Justification (\$JUSTIFY) any | legitimate ARC/INFC | annoposition comma | and option. |
| x coordinate offset (\$OFFSE along the x axis. | TX) Any value in met | res on the ground to g | ive type a suitable position |
| y coordinate offset (\$OFFSE along the y axis. | TY) Any value in met | res on the ground to g | ive type a suitable position |
| Font and colour of type (\$SY | 'MBOL) Valid entries; | 6-11, 26-31, 36-41 | |
| Attributes which have standa (\$ALIGN) null or LEFT (\$FIT) OFF (\$WORD) 0 (\$ID),(\$LEVEL) and (\$RECN | | | ny value |
| General Notes | | | |

GEODATA

The annotation feature class uses the ARC/INFO annotation feature type.

Map

Data rules

Type for large polygons and long linear features may be held in an annotation feature for each word to allow for spacing and differences in orientation, see Section 2 chapter 4.

There are no subclasses for annotation.

Annotation will appear only in the Cartographic Features, Graticule and Map Grid layers in the working database. The Cartographic Features, Graticule and Map Grid layers will not be built for annotation.

Related features

Feature pointer, Grid line, Graticule line, Kilometric distance indicator, Route marker - National and Route marker - State

Related chapters

Section 2 chapters 2.9, 3.1.1, 5, 6 and 7

Section 3 chapters 3.2.4, 5.2, 5.3 5.10, 6.9.1, 6.9.2 and 6.10.1

Appendix E

Appendix F

Feature Usage

AUXILIARY CONTOUR

A line augmenting relief presentation where significant topographic features are not shown by the prescribed contour interval. The line represents an imaginary line on the ground joining points of equal elevation in relation to the Australian Height Datum.

Scales

| | Dimensions Area (s | sq m) | 1:100 | 000 | GEODATA & Map |
|---|--|----------------|----------------------|----------------|----------------------|
| | Length Height 100K | 250K | | | |
| | 5mm | | | | |
| | Spatial object | | - | | |
| | Representation | Chain | | | |
| | Planimetric Accuracy | - / 40 | | | |
| | Feature code | auxil con | nt | | |
| | Coverage (see Section 3 chapter | | | | |
| J | Data Attributes | | | | |
| г | GEODATA and working database | | | | |
| | ELEVATION (elevation) [number; 7,7, Datum. | ,N,2] Elevatio | n of contour in me | tres from the | Australian Height |
| | CONTOUR CODE (contour) [integer; 1 - Standard 3 - Connector on cliff/cuttings/emba 4 - Connector standard | | | | |
| | DATA QUALITY POINTER (q_info) [c Section 1 chapter 3.5 and Section 3 c <tile-id>3</tile-id> | | C] Pointer to attrib | oute and featu | ure reliability (see |
| | Working database only | | | | |
| | SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable: 59 - standard 0 - Connector on cliff/cuttings/emba (non printing line) 0 - Connector standard (non printing line) | ankments/razd | orback | | |
| | General Notes | | | | |
| | | | | | |
| | GEODATA | | | | |

Minimum Size for Inclusion

Map

All auxiliary contours will be labelled with their elevation, where space permits.

Contours will be given symbol 0 where they cross Waterbodies such as Watercourse areas, Salt evaporators, Sewage ponds, Canal and Rapid areas to scale;

There will be no gap between the contour and the feature it is broken for.

Contours with a CONTOUR CODE attribute of 3 or 4 will not be shown on the map.

Data rules

Auxiliary contours of different height must not touch each other or other contour features (in the c coverage).

No auxiliary contour can cross itself, another auxiliary contour or other contour features (in the c coverage)

Auxiliary contours height must not equal a standard 20m contour interval at 1:100 000.

Auxiliary contours will not be used to represent depressions.

Auxilary Contours cannot fall over Sea, Perennial lake, Reservoir or Open Cut mine.

Contours of code 3 will adhere to the rules in Section 3 chapter 6.1.1. These coincidence rules do not apply to contours of code 3 passing through cuttings and embankments.

Spot heights and Survey Marks must not contradict Auxiliary contours.

Related features

Benchmark, Cliff, Horizontal control point, Hypsometric area, Razorback, Contour, Spot elevation

Related chapters

Section 1 chapter 3.6.5 Section 2 chapter 2.8

BENCH MARK

A permanently marked point, the elevation of which above sea level has been determined by levelling.

| Minimum | Size for Inclu | sion | | Scales | Feature Usage |
|---------|----------------|------|--------|------------|------------------|
| Dim | ensions | Area | (sq m) | 1:250 000 | GEODATA & Map |
| Lengtl | n Height | 100K | 250K | | |
| | | | | | |

Spatial object

| Representation | Point | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | bench_mark | |
| Coverage (see Section 3 chapter 4) | у | |

Data Attributes

GEODATA and working database

ELEVATION (elevation) [number; 7,7,N,2] elevation in metres from the Australian Height Datum.

CODE (Code) [character; 24,24,C] Code which identifies the benchmark (to be populated if revision source material supplied). Alpha characters in this field are to be in the case used on the revision source material.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>10

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 50

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

No new features will be added. Bench Marks currently existing in the 250K product will be retained.

The elevation will not be duplicated in the text_note field.

GEODATA

Мар

Bench marks will be labelled 'BM' followed by the elevation to the nearest metre eg BM1902.

Data rules

Bench marks must fit logically with contours.

Related features

Contour, Horizontal control point and Spot elevation

Related chapters

Section 1 chapter 3.6.5

Feature Usage

BOAT RAMP

A sloping construction to facilitate launching or retrieving vessels from water.

Scales

| Dimens | sions | Area (| sq m) | | 1:100 | 000 | GEODATA & Map | |
|--|--------------|---------------|----------------|-----------|--------------|-------------|------------------------|--|
| Length | Height | 100K | 250K | | | | | |
| 1 mm | | | | | | | | |
| Spatial objec | t | | | 1 | | | | |
| | | | | | | | | |
| Represent | | | Chain | | | | | |
| | c Accuracy | | - / 40 | | | | | |
| Feature co | | 0 -1 | boat_ram | ıp | | | | |
| Coverage | (see Sectio | n 3 chapter | 4) <u> </u> h | | | | | |
| Data Attribute | es | | | | | | | |
| GEODATA an | | latabase | | | | | | |
| | TY POINTE | R (q_info) [c | | C] Point | er to attrib | ute and fea | ature reliability (see | |
| Working datal | base only | | | | | | | |
| SYMBOL (syr | - | v: 4.5.Bl | | | | | | |
| Symbol numb 755 | | | | | | | | |
| TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map | | | | | | | | |
| General Notes | | | | | | | | |
| | | | | | | | | |
| GEODATA | | | | | | | | |
| | | | | | | | | |
| Мар | | | | | | | | |
| All boat ramps | will be labe | elled with a | descriptive no | te or nar | med eg 'bo | at ramp'. | | |
| Data rules | | | | | | | | |
| | | | | | | | | |
| Related featu | ires | | | | | | | |
| | | | | | | | | |
| Related chap | ters | | | | | | | |
| | | | | | | | | |

Technical Specifications Version 3.6

Minimum Size for Inclusion

BORE

A small diameter hole in the ground for the purpose of obtaining subterranean water by natural flow or mechanical pumping.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | | |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | bore | |
| Coverage (see Section 3 chapter 4) | Х | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Bore name – for 100K use only

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] Bore name - for 250K use only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

11

0 (non printing) see map rules.

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

This feature will not be shown in densely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' regardless of whether it was shown on/in the base material/digital data. Refer to Appendix C for more information on when to capture this feature.

At 1:100 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to all feature occurrences.

At 1:250 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Where a bore and a windpump are situated together, only the windpump will be shown as it usually has the greater landmark value. (Refer to entity Windpump).

GEODATA

Map

Names of these features will be shown.

Where a bore and a water tank are situated together, both will be included in the data but only the water tank will be shown as it usually has the greater landmark value. Bore should be symbolised to 0 (non – printing on the map face).

Bores plotted within 2.5 mm at map scale of a populated place will not be shown (symbolised to 0 non-printing).

When due to the density of general map detail, the symbols are omitted, a suitable note will be added, eg, 'numerous bores'.

Bores will mask all other detail except dry docks, kilometric distance indicators, route markers and annotation.

Data rules

Related features

Spring, Water tank and Windpump

Related chapters

Appendix C

BOUNDARY - INTERNATIONAL

Boundaries defining the territorial sovereignty of a country. The international boundary will be taken to be the line of sea bed jurisdictions.

| Minimum Size for Inclusion | | Scales | Feature Usage |
|---|---------------------|----------------------|----------------|
| Dimensions Area (sq r | n) | 1:250 000 & | Мар |
| Length Height 100K 2 | 50K | 1:100 000 | |
| | | | |
| Spatial abject | | | |
| Spatial object | | | 1 |
| Representation | Chain | | |
| Planimetric Accuracy | 100 / 40 | | |
| Feature code | internat_l | | |
| Coverage (see Section 3 chapter 4) | 5 | | |
| Data Attributes | | | |
| GEODATA and working database | | | |
| GLODATA and Working database | | | |
| | | | |
| Working database only | | | |
| SYMBOL (symbol) [binary; 4,5,B] | | | |
| Symbol number applicable: | | | |
| 62 | | | |
| TEXT NOTE (text_note) [character; 30,36 | 0,C] Descriptive no | ote to appear on mar |) |
| General Notes | | | |
| All International boundaries will be shown See also feature class 'State Border'. | 1. | | |
| GEODATA | | | |
| | | | |
| Мар | | | |
| The names of the Countries will be show | n on the relevant s | side of the boundary | as Annotation. |
| Data rules | | | |
| | | | |
| Related features | | | |
| State Border | | | |
| Related chapters | | | |
| | | | |

BREAKWATER

A solid structure to break the force of the waves, sometimes detached from the coast, protecting a harbour or anchorage.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) |
|--------|--------|--------|-------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | breakwater | |
| Coverage (see Section 3 chapter 4) | h | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 751

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

GEODATA

Man

Features will be named if named on the latest previous edition map.

All breakwaters are to have an accompanying descriptive note eg 'breakwater'

| Data rules | |
|---------------------------|--|
| | |
| | |
| Related features | |
| Jetty, Sea wall and Wharf | |
| | |
| Related chapters | |
| | |

BUILDING

A permanent walled and roofed construction or the ruin of such a construction.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|--------|
| Length | Height | 100K | 250K |
| | | 22500 | 140625 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | Polygon |
|------------------------------------|----------|------------|
| Planimetric Accuracy | 100 / 40 | 9999/9999 |
| Feature code | building | building_a |
| Coverage (see Section 3 chapter 4) | g | i |

Data Attributes

GEODATA and working database

BUILDING CODE (building) [integer; 1,1,I] Status of the building;

- 1 Operational
- 2 Ruin
- 3 Abandoned homestead

BUILDING FUNCTION (function) [integer; 2,2,I] Function of Operational Building (if known);

- 1- Ambulance Station
- 2- Aged Care Facility
- 3- Community Centre
- 4- Day care centres/Kindergartens
- 5- Doctors Surgery
- 6- Fire Station
- 7- Historical Building
- 8- Hospital
- 9- Place of Worship
- 10- Police Station
- 11 -Power Station
- 12 -Public Hall
- 13- Refinery
- 14 -School
- 15 Emergency Services Centre
- 16 -Shopping Centre
- 99- Other or Function Unknown

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>4 - feat_code "building"

<tile-id>2 - feat_code "building_a"

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

Point symbols:

430 - Operational building & Abandoned homestead

41 – Ruin

40 - Significant Building

0 - non-printing

Polygon;

26 - Operational building & Abandoned homestead

0 - Ruin

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

Attribute for point only.

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0 Attribute for point only.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

The area criteria in the 'Minimum Size for Inclusion' box relates only to the building area feature code, not to building point features.

At 1:100 000 buildings captured from the base material/digital data will be shown unless there is strong evidence they no longer exist.

At 1:250 000 all feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

A new homestead may be shown by a single feature representing a group of buildings.

New buildings will be captured from supplied imagery where there is strong evidence on the image to support the interpretation or where other revision source material assists the interpretation.

Buildings will not be shown within Built-up areas. Buildings will be shown in Park, Cemetery and Built-up area void features.

The point entity will be used to represent the location of a group of buildings as well as an individual building. However, individual buildings will be shown as far as the scale permits.

A group of buildings that cannot be shown individually may also be shown by a representative pattern of building features. A group of buildings will not be aggregated to form a building drawn to scale.

Significant buildings should have landmark value. It is not intended that farm or poultry sheds would be considered significant, particularly in areas where there are many such features. Some examples of significant buildings may be: power stations, hospitals, oil refineries. In remote areas features may take on more significance than in populated centres for example: large roadhouses, paper mills, etc. A significant building such as a papermill that cannot be drawn to scale will be shown using symbol 40.

At 1:100 000 operational buildings of known function should be populated with a building function code. Buildings whose function is not known or not in the numbered list should be coded as "other or function unknown". Text_notes should reflect the function of the building.

Building polygons will be cloned as building point features.

At 1:250 000 the building item for building area features is a working database only item. At 1:100 000 the building item for building area features is a GEODATA and working database item. At both scales the building item for building point features is a GEODATA and working database item.

GEODATA

Named buildings other than operational homesteads will be cloned as Localities coded as place name. The name will be held against the Locality and not as a text note for building.

Operational homesteads will be shown as localities and cloned as a building subject to the rules for inclusion of homesteads. Operational homesteads that fail the rules for inclusion as Locality homesteads may still be shown as unnamed buildings. Abandoned homesteads will be shown as buildings of building code 3 and will named in a similar manner to the method of capture of locality homesteads (code 4) in reference to Appendix C. (i.e. In densely settled areas locality code 4 homesteads are not captured unless considered significant (e.g. historical) therefore buildings of code 3 Abandoned Homesteads should not be named in densely settled regions unless they are also considered significant).

At 1:250 000 building polygons will not be included in GEODATA. All buildings will be represented as points. Building polygons will be included at 1:100 000.

Map

The building symbol will be aligned parallel to the map grid.

If black type falls unavoidably over the building symbol, the feature's symbol attribute will be '0' (non-printing).

Buildings other than homesteads will be named or labelled where they have a distinctive function, eg. 'factory', 'sawmill', 'Wikipin Agricultural College', or where they were labelled on the latest previous edition map.

Operational homesteads will be shown by the feature class Locality code 'Homestead' subject to the rules for inclusion of homesteads. Abandoned homesteads and operational homesteads that fail the rules for inclusion as Locality homesteads may still be shown as buildings.

All ruins will be labelled 'ruin'. Abandoned homesteads will be labelled 'abandoned'.

Data rules

Operational Buildings, Ruins etc shown to scale will be bounded by a Building Line feature at 1:250 000 and a Cultural Area Line at 1:100 000.

The text_note attribute field will be used as required for adding descriptions or names to buildings which have a distinctive function.

Related features

Building line, Landmark Point, Locality (homestead), Locality (place name) and Tile edge

Related chapters

Section 2 chapter 2.2.3 Section 3 chapters and 6.5.2

BUILDING LINE

A line defining the limits of a building large enough to show to scale.

| Minimum Siz | e for Inclus | sion | | Scales | Feature Usage |
|--|--|---------------|-----------------------------|------------------------------|---------------|
| Dimens | sions | Area | (sq m) | 1:250 000 | Мар |
| Length | Height | 100K | 250K | | L |
| Spatial object | et | | | _ | |
| Feature c | ic Accuracy | n 3 chapter | Chain 100 / - building 4) i | <u>j_l</u> | |
| Data Attribut | | latabase | | | |
| Working data SYMBOL (syn Symbol numb 0 - Operation 60 - Ruin | base only mbol) [binar per applicabl | y; 4,5,B] | | | |
| General Note | es | | | | |
| | | | | | |
| GEODATA Only applicab | le for GEOD | DATA at 1:1 | 00 00 scale. | See building & Cultural Area | Line. |
| Мар | | | | | |
| | | | | | |
| Data rules | | | | | |
| Bounds a bui | lding shown | to scale at | 1:250 000. | | |
| Related featu | ıres | | | | |
| Building, Built | t-up area lin | e, Cultural A | Area Line an | d Vegetation line | |

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

Related chapters

Section 3 chapter 5.11.2

BUILT-UP AREA

An area where buildings are close together and have associated road and other infrastructure networks.

Minimum Size for Inclusion

| Dimen | Dimensions | | sq m) |
|--------|------------|-------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

| 1:250 000 |
|-----------|
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | builtup_a | |
| Coverage (see Section 3 chapter 4) | b | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the built-up area

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14).

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 420

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

A built-up area will include all buildings which are set out on street patterns and which are too close to be shown using individual symbols at map scale.

Dual carriageways, highways/principal roads and secondary roads will be shown through Built-up areas. The selection of minor roads within Built-up Area varies according to scale. (See Road)

Areas of open space which are not parks and have an area greater than 390625 square metres at 1:250 000 and 62500 square metres at 1:100 000 will be excluded from the built-up area.

In some instances, parts or suburbs of a town or city may be split from the main body of the built-uparea by open land or a double sided stream, in which case the separate built-up area polygons will carry the same name, eg 'Melbourne' which may be attached to a number of built-up area polygon features. Built-up area names will be as listed for the census. Where names have been combined for the census (eg hyphenated) they will be combined unless separate populations are given for the components in which case the components will be named separately.

Unless they are disconnected sections of a larger area, Built-up areas less than 390625 sq m. at 1:250 000 or 62500 sq m. at 1:100 000 will be represented by a Locality feature with a code of place name or populated place (see Locality).

GEODATA

The paracentroid of the polygon has no positional meaning, ie, it does not indicate the CBD, GPO or any other point considered the focus of that built-up-area.

The name of the built-up area will be attached to the paracentroid of the built-up area. Names of suburbs of a city or town will be included as separate Locality features with the code place name.

Map

Built-up areas will be named.

Built-up areas will mask contours.

Data rules

Built-up areas will be bounded by a built-up area line feature.

Built-up area features cannot overlap Built-up Area Void, Park, Lake, Watercourse Area, Canal Area, Mangrove, Mangrove Flat, Reservoir, Land Subject to Inundation and Sea features.

Related features

Built-up area line, Kilometric distance indicator, Locality (populated place), Locality (place name) and Tile edge

Related chapters

Section 3 chapter 6.5.1

Section 3 chapter 6.7.3

BUILT-UP AREA LINE

The bounding line of a Built-up-area, Built-up area void, park, cemetery or rubbish tip polygon.

Dimensions Area (sq m) Length Height 100K 250K

1:250 000 & 1:100 000 Feature Usage GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | builtup_l | |
| Coverage (see Section 3 chapter 4) | b | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Note: The Built-up area line feature can bound various polygon types & will have its symbol number changed accordingly. The symbol numbers shown apply to Built-up lines bounding the following features.

Line Polygon area symbol; bounded; 0 Built-up area (non printing line) 0 Park area

(non printing line)

170 Rubbish tip (@1:100K)

60 Cemetery

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

| General | Notes |
|---------|-------|
|---------|-------|

| GEODATA | | | |
|---------|--|--|--|
| | | | |

Мар

Symbols 170 (bounding Rubbish tip) and 60 (bounding Cemetery) will be masked out by symbolised linear features such as roads.

Symbols 170 (bounding Rubbish tip) and 60 (bounding Cemetery) will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data).

Data rules

Built-up area lines bound built-up areas, built-up area voids, cemeteries, parks and rubbish tips.

Where a built-up area line is within 50 meters at 1:250 000 and 20 meters at 1:100 000 of and runs alongside the following features it will be coincident with the other feature:

Waterline

Sea wall

Building line

Cultural Area Line

Offshore line

Road

Railway

Prohibited area line

Reserve area line

Vegetation line

Related features

Building line, Built-up area, Built-up area void, Cemetery, Offshore line, Park, Prohibited area line, Railway, Reserve line, Road, Rubbish tip, Sea wall, Vegetation line and Waterline

Related chapters

Section 3 chapters 5.11.2 and 5.11.3

BUILT-UP AREA VOID

An empty or void area in a Built-up area, Park or Cemetery polygon which is not occupied by a Park or a Cemetery feature.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) | |
|---------------|--|--------|--------|--|
| Length Height | | 100K | 250K | |
| | | 62500 | 390625 | |

Scales

| 1:250 000 | - |
|-----------|---|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | bua_void | |
| Coverage (see Section 3 chapter 4) | b | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

Areas of open space which are not parks and have an area greater than 390625 square metres at 1:250 000 and 62500 square metres at 1:100 000 will be excluded from the built-up area.

This feature will complete voids in builtup area left by Lake, Watercourse Area, Canal Area, Mangrove, Mangrove Flat, Reservoir, Land Subject to Inundation. As well as completing voids in Park left by Aeronautical Areas. When used for this purpose the minimum size will be that of the feature that creates the void. For example 62 500 sq m at 1:250 000 and 10 000 sq m at 1:100 000 if the void is created by a new lake.

GEODATA

Мар

Data rules

Built-up Area Void features cannot overlap Built-up Area and Park features.

Related features

Built-up area line, Cemetery, Park, Rubbish tip and Tile edge

Related chapters

Section 1 chapter 3.8.2

CANAL

An artificial watercourse conveying water for inland navigation, irrigation or drainage purposes.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|--------|
| Length | Height | 100K | 250K |
| 5 mm | | 50000 | 312500 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | Polygon |
|------------------------------------|----------|-----------|
| Planimetric Accuracy | 100 / 40 | 9999/9999 |
| Feature code | canal | canal_a |
| Coverage (see Section 3 chapter 4) | d | W |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Canal name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>4 - feat_code "canal"
<tile-id>5 - feat_code "canal_a"

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable: 947 (line) 10 (polygon)

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features

old_ufi will only be an attribute for canal chains.

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

When a new undersized length of canal exists between two water pipelines which meet their selection criterion, then the section of canal should be represented as a pipeline feature, accepting

the attributes of its adjoining pipelines.

Features plotted wider than 1.0 mm to scale will be shown as polygons.

Canals do not carry perenniality or hierarchy attributes.

GEODATA

Map

Canals will be masked for roads. The break will be the same as the width of the road it crosses. If not included in the name canals will have a descriptive note eg 'canal', 'drain'.

Data rules

Waterlines and Junctions bound canal polygons.

Polygon canals cannot overlap Built-up or Vegetation areas.

Connectors will be placed through polygon canals to complete stream networking.

With respect to contours, only standard connectors can cross polygon canals.

The following cannot overlap or fall within polygon canals;

Spot elevations, Localities, any morphology coverage features any waterpoint coverage feature, Windbreaks, Horizontal control points, Bench marks, Aircraft facilities and Sea.

Related features

Connector, Junction, Salt evaporator, Salt evaporator internal line, Tile edge, Watercourse and Waterline

Related chapters

Section 1 chapters 3.8.3 and 3.8.4 Section 2 chapter 2.2.3

CAVE

The mouth of a naturally formed, subterranean open area or chamber.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|---------------|-------------|------|
| Length | Length Height | | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | cave | |
| Coverage (see Section 3 chapter 4) | m | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The Cave's name

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable : 96

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Only caves shown on the base material/digital data or the latest previous edition map (if provided) will be shown.

This feature will be used to represent the location of an individual cave as well as groups of caves.

GEODATA

Named caves will be cloned as localities with locality code 10 (Place name)

Map

Caves will be named where they were named on the base material/digital data or the latest previous edition map.

All caves are to have an accompanying descriptive note 'cave', 'sinkhole', etc. unless the word 'cave', 'sinkhole', etc. is included in the name.

Data rules

Caves cannot fall within the following polygons;

Lakes, Reservoirs, Watercourses, Canals, Buildings and Offshore coverage polygons other than voids.

Related features

Related chapters

Section 3 chapter 5.11.1

CEMETERY

An area of land for burying the dead

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|---------|
| Length | Height | 100K | 250K |
| | | 22 500 | 140 625 |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |
| | | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | cemetery | |
| Coverage (see Section 3 chapter 4) | b | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Cemetery name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Named features whose area is less than the minimum size for inclusion shall be shown as Localities coded cemetery.

See Locality

Cemeteries to scale can be surrounded by built-up areas or can be isolated polygons.

GEODATA

Map

All cemeteries are to have an accompanying descriptive note 'cemetery' unless the word 'cemetery' is included in the name.

Data rules

Cemeteries to scale are bounded by built-up area line.

Cemeteries cannot appear in or overlap the following polygons;

Lakes, Reservoirs, Watercourses, Canals, Buildings and Offshore coverage polygons other than voids.

Related features

Built-up area line, Built-up area void, Locality and Tile edge

Related chapters

Section 3 chapter 6.5.5

CLIFF

A high, steep, significant or overhanging face of rock.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) | |
|------------|--------|--------|-------|--|
| Length | Height | 100K | 250K | |
| 5 mm | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | cliff | |
| Coverage (see Section 3 chapter 4) | m | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 924

0 - non-printing - see Map rules

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Height of high cliffs and escarpments are to be indicated by the use of spot elevations where available.

Geological faults will be shown as cliffs when there is a relative vertical displacement of the land mass at the fault.

GEODATA

Map

Contours & Auxiliary Contours will be broken for cliffs.

Coastal cliffs will be treated in the same way as inland cliffs. Coastline (Waterline feature) will be non-printing (symbol 0) where cliff and waterline symbols overlap, disregarding the ticks on cliff symbols. A cliff will be symbolised to 0 a maximum of 0.8 mm either side of the location point of a lighthouse or horizontal control point symbol where the symbol touches the cliff.

No differentiation will be made between cliffs and escarpments.

Cliffs will be named where named on the latest previous edition map unless adjacent development means this would lead to clutter.

Cliff symbols will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

The feature shall be digitised such that the down hill side is on the left going from start node to end node.

Cliffs cannot appear in;

Sea, Lakes, Reservoirs, Building Area and Offshore polygons.

Cliffs cannot intersect Roads and Railways.

Related features

Auxiliary Contour, Contour, Lighthouse, Razorback, Waterfall and Waterline

Related chapters

Section 3 chapters 5.7 and 6.1.1

CONNECTOR

An artificial line used to connect linear Hydrographic features across an area feature to allow network analysis of riverine networks.

Dimensions Area (sq m) Length Height 100K 250K

| Scales |
|-----------|
| 1:250 000 |
| & |
| 1:100 000 |

| Feature Usage |
|---------------|
| GEODATA |
| |

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | connector | |
| Coverage (see Section 3 chapter 4) | d | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of associated watercourse

PERENNIALITY (perennial) [integer; 1,1,I] Code for perenniality;

- 0 Not Applicable
- 1 Perennial
- 2 Non-perennial

HIERARCHY (hierarchy) [integer; 1,1,I] Importance of associated watercourse

- 0 Not Applicable
- 1 Major
- 2 Minor

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 0

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

GEODATA

Where a connector joins two canals, or joins a canal to another connector it will have a perenniality of '0' and a hierarchy of '0'. A connector joining a canal to a stream will take the perenniality of the stream. See Section 1 3.8.3

Map

Data rules

Connectors must fall wholly within waterbodies except where there is evidence that a loss in hydrological connectivity would occur eg. a connector may be used to duplicate a water pipeline to provide hydrological connectivity. Such a connector may also be used in areas where a watercourse feature flows underground and re-emerges.

The number of vertices used to define connectors should be sufficient only to keep it well within the waterbody area.

Connectors may be used through all waterbodies except Mangrove Flat, Waterbody Voids, Salt Evaporators and Settling ponds. An exception is where a watercourse ends at a Mangrove Flat and there is no channel to the sea. In this case a connector may cross a mangrove flat.

If there is no flow through the waterbody then no connector feature will be added.

Connectors will carry the attributes of the watercourse they represent ie. the classification and perenniality shown in the supplied Water Guide in Appendix D (see Section 1, chapter 3.8.3).

Connectors will be used to extend the stream network to the coastline where applicable.

It is preferable that the ends of connectors are positioned perfectly over a node or vertice in the underlying waterbodies perimeter, and at worst should fall within 1 metre of the features perimeter line.

Connectors will not be shown around both sides of an island. That is, only one main connector will appear, with associated tributary connectors coming in from one or both sides.

Connectors will pass through Reservoirs to connect to the Spillway linear feature.

Related features

Canal, Junction, Lake, Land subject to inundation, Lock, Mangrove, Marine swamp, Rapid, Reservoir, Spillway, Swamp, Watercourse and Waterhole

Related chapters

Section 1 chapters 3.8.3 and 3.9.1 Section 3 chapters 5.11.2, 5.11.3 and 6.10.1

CONTOUR

A line which represents an imaginary line on the ground joining points of equal elevation in relation to the Australian Height Datum.

Minimum Size for Inclusion

| | Dimensions | | Area | ı (sq m) |
|---|------------|--------|------|----------|
| L | ength. | Height | 100K | 250K |
| | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | contour | |
| Coverage (see Section 3 chapter 4) | С | |

Data Attributes

GEODATA and working database

ELEVATION (elevation) [number; 7,7,N,2] Elevation of contour in metres from the Australian Height Datum.

CONTOUR CODE (contour) [integer; 1,1,I] Type of contour;

- 1 Standard
- 2 Depression
- 3 Connector on cliff/cuttings/embankments/razorback
- 4 Connector standard
- 5 Interpolated contour

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>3 - contour code <= 3

<tile-id>8 - contour code >= 4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol numbers applicable:

- 56 Standard
- 55 Index standard
- 58 Standard depression
- 57 Index depression
 - 0 Connector on cliff/cuttings/embankments/razorback (non printing line)
 - 0 Connector standard (non printing line)
- 0 0 elevation contour when cloned from Waterlines, Junctions and other features forming the coastline.

Interpolated contours;

These may or may not be printed on the map, according to requirements. Use 0 for non printing lines, and the appropriate class symbol no. above for printable lines.

General Notes

See Section 3 chapter 6.1.

GEODATA

Map

Contours will be given symbol 0 where they cross Waterbodies such as Watercourse areas, Salt evaporators, Sewage ponds, Canal and Rapid areas to scale;

There will be no gap between the contour and the feature it is broken for.

Contours with a CONTOUR CODE attribute of 3 or 4 will not be shown on the map.

For depression contours the ticks will be on the downhill side of the line.

Contours with a CONTOUR CODE attribute of 5 will be shown on the map where the contours were previously deleted from symbols such as highway shields and the new symbols are smaller on the revised map or shown in a different location. In some instances contours were unnecessarily deleted well before cliff symbols or broken for sand ridges. These contours should also be interpolated and shown on the map, provided they do not run into each other.

Where contours in steep terrain were deleted from previous maps to avoid them running into each other, they must be interpolated to close the Hypsometric polygons but they should not print ie they will be given symbol 0.

Data rules

Contours of different height must not touch each other. No contour can cross itself, another contour or an auxiliary contour.

The Standard contour interval is 20m (1:100 000) and 50m (1:250 000).

Depression contours shall be digitised such that the downhill side is on the left going from start node to end node.

Waterline, Junctions & other features forming the coastline will be cloned as 0 (zero) elevation contours. The 0 contour will have a CONTOUR CODE of 1 except where there are coastal cliffs in which case it will have a code of 3 or where it is cloned from a junction in which case it will have a code of 4.

One contour is to be shown at each contour interval height.

At 1:250 000 no intermediate contours shall be used. At 1:100 000 intermediate contours may be shown using the feature 'Auxiliary Contour'.

Contours will carry the Symbol code for Index contours at every 100m (1:100 000) & 250m (1:250 000) taken from elevation 0.

Contours of code 3 will adhere to the rules in Section 3 chapter 6.1.1. These coincidence rules do not apply to contours of code 3 passing through cuttings and embankments.

No gaps should appear in contours.

Contours cannot fall over Sea, Perennial lake and Reservoir polygons.

Benchmarks, Spot heights and Survey Marks must not contradict contours.

Related features

Auxiliary Contour, Benchmark, Cliff, Horizontal control point, Hypsometric area, Junction, Razorback, Sea wall and Waterline

Related chapters

Section 1 chapter 3.6.5 Section 2 chapter 2.8

Section 3 chapters 5.7 5.11.1 and 6.1

CONVEYOR

A continuous belt or series of belts mounted on rollers and used to move large quantities of goods, especially grain or ore.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) | |
|--------|--------|--------|-------|--|
| Length | Height | 100K | 250K | |
| 3 mm | | | | |

Scales

| 1:250 000 | 5 |
|-----------|---|
| & | |
| 1:100 000 |) |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | conveyor | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 183

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Conveyor features inside built-up areas will not be shown.

GEODATA

Мар

All conveyors are to have an accompanying descriptive note 'conveyor' unless the word 'conveyor' is included in the name.

Conveyors will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

| Data rules | | |
|------------------|--|--|
| | | |
| | | |
| Related features | | |
| Aerial Cableway | | |
| | | |
| Related chapters | | |
| | | |

CRATER

A bowl shaped natural depression with steep slopes at the rim, formed by volcanic activity or meteor impact.

Minimum Size for Inclusion

| Dimen | Dimensions | | sq m) |
|--------|------------|-------|-------|
| Length | Height | 100K | 250K |
| | | 10000 | 62500 |

Scales

| | |
|-----------|--|
| 1:250 000 | |
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | crater | |
| Coverage (see Section 3 chapter 4) | q | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The crater's name

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Crater polygons will extend to the top of the crater rim.

GEODATA

Map

See relief area line

All craters are to have an accompanying descriptive note 'crater' unless the word 'crater' is included in the name.

Data rules

Craters will be bounded by a Relief area line feature.

Crater features cannot overlap Sea polygons.

The crater perimeter cannot cross the perimeter of other relief area features.

Related features

Relief area line and Tile edge

Related chapters

CULTURAL AREA LINE

A line defining the limits of either a building large enough to show to scale or a Landmark area.

| | e for Inclus | sion | | Scales | Feature Usage |
|--------|--------------|------|--------|-----------|------------------|
| Dimens | sions | Area | (sq m) | 1:100 000 | GEODATA & Map |
| Length | Height | 100K | 250K | | |
| | | | | | |

Spatial object

| Representation | Chain | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | - / 40 | |
| Feature code | cultural_a_l | |
| Coverage (see Section 3 chapter 4) | i | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

0 - Operational building

60 – Ruin

63 -Landmark Area

| General | Notes |
|---------|-------|
|---------|-------|

GEODATA

See building.

Map

When a Landmark Area and Ruin to Scale are adjacent then the ruin boundary symbology should take precedence. When a Landmark Area or Ruin to Scale is adjacent to an operational building then the symbology for Landmark Area or Ruin to Scale should take precedence.

Data rules

Bounds a building shown to scale & Landmark Area.

Related features

Building, Built-up area line and Vegetation line & Landmark Area, Building Line

Related chapters

Section 3 chapter 5.11.2

CUTTING

An open excavation of the Earth's surface to provide passage for a road, railway, canal or similar entity.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) | |
|--------|----------------|--------|-------|--|
| Length | Height | 100K | 250K | |
| 2 mm | ½ contour int. | | | |

Scales

| | |
|-----------|--|
| 1:250 000 | |
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | cutting | |
| Coverage (see Section 3 chapter 4) | m | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 923

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

The linear feature for which the cutting was made need no longer exist, eg a dismantled railway line.

A cutting may be either on one side of the linear feature (or its former position) or may be paired with a second cutting on the other side. The combination of a cutting on one side and an embankment on the other is permissible.

GEODATA

Map

Data rules

A Cutting feature represents the bottom of the cutting entity. The feature will always be oriented so that the upslope will be on the right going from start node to end node.

Cuttings can not cross the feature for which the cutting was created or other Roads, Railways, Canals, Watercourses, Dam or other Morphology coverage features.

Cuttings cannot appear in Sea, Lakes, Reservoirs, Watercourse, Canal and Building Area polygons.

Related features

Embankment

Related chapters

DAM

A barrier of earth and rock, concrete or masonry constructed to form a reservoir for water storage purposes or to raise the water level.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|-------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain |
|------------------------------------|----------|
| Planimetric Accuracy | 100 / 40 |
| Feature code | dam |
| Coverage (see Section 3 chapter 4) | u |
| | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Dam's name.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 925 - for normal dam

0 - where coincident with Road on dam.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Dams will not be shown where the associated water storage is shown as a Water tank feature.

Dams not shown to scale on the latest previous edition map will be captured as a chain 1mm long at map scale.

Dam features will be associated with a spillway feature where the spillway is behind the wall or separated from it and meets other selection criteria for spillways. Where excess water overtops the dam wall along all or most of its length a spillway will not be shown e.g. Hume Dam or Scrivener Dam (see Spillway).

In densely and moderately settled regions as defined by Appendix C where a Dam wall meets the minimum size criteria, the attached reservoir should be shown regardless of whether or not it is below the minimum size criteria for reservoirs. If a reservoir no longer exists (ie. Filled with sediment) then the dam wall will not be shown.

GEODATA

Where a spillway feature is not included (see Spillway), the reservoir connector and watercourse or watercourse connector will meet node to node at the dam.

Map

Where the dam carries a road the dam will be symbolised as a road on dam. See feature class Road on dam.

If a dam wall and its associated reservoir have the same name, then:

- where the name of the reservoir can be placed on the map face in a cartographically acceptable manner the associated dam wall name will not be included but a descriptive note e.g. 'dam','weir' will be added where space permits.
- where the reservoir name can not be placed on the map face in a cartographically acceptable manner then the waterbody feature will remain unnamed but its associated dam wall would be named, where the name is known. It should also have an accompanying descriptive note e.g. 'dam', 'weir' unless the word 'dam', 'weir' is included in the name.

Data rules

Dams that carry roads across them will be cloned to the roads cover as a Road on dam feature.

Dams cannot cross any drainage coverage feature (excepting Watercourse chains and connectors) or Roads and Railways.

Dams cannot appear in the following; Sea, Lakes, Canal, Watercourse and Building Area polygons.

Related features

Reservoir, Road on dam, Spillway and Water tank

Related chapters

Section 3 chapters 3.2.4 and 5.11.1

DISTORTED SURFACE

An area over which vehicular movement is difficult or impossible due to the fractured nature of the ground, or rock debris lying on the surface.

Minimum Size for Inclusion

| | Dimensions | | Area (sq m) | | |
|----|------------|--------|-------------|--------|--|
| Le | ngth | Height | 100K | 250K | |
| | | | 62500 | 390625 | |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | dist_surf | |
| Coverage (see Section 3 chapter 4) | q | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

90

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that form clusters may be represented by one large polygon if the individual polygons that constitute the cluster are smaller than the minimum size for inclusion.

This feature can include distinctive broken country characterised by fractures, joints, faults, gilgai, or broken stone.

GEODATA

Map

See Relief area line.

All distorted surfaces are to have an accompanying descriptive note, eg 'gilgai', 'lava flow'.

Data rules

Distorted surface polygons will be bounded by a Relief area line feature.

Where the boundary of an area of Distorted Surface has a similar shape to another natural feature such as a cliff, the relevant section of Relief Area Line will be made coincident with this other feature (see Relief Area Line).

Distorted surfaces can not appear in or overlap Sea, Lake, Watercourse area, canal area or reservoir polygons. Distorted surfaces can not overlap other relief area coverage polygons.

Related features

Relief area line and Tile edge

Related chapters

DRY DOCK

A structure or basin providing support for a vessel and from which water can be removed so that the bottom of the vessel is exposed.

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K 22500 Spatial object Representation Planimetric Accuracy - / 40 Feature code dry dock

| Scales | _ |
|-----------|---|
| 1:100 000 | |

Feature Usage GEODATA & Map

| Representation | Point |
|------------------------------------|----------|
| Planimetric Accuracy | - / 40 |
| Feature code | dry_dock |
| Coverage (see Section 3 chapter 4) | u |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Dry dock's name.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

753

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

GEODATA

Мар

All dry docks are to have an accompanying descriptive note 'dry dock' unless the word 'dry dock' is included in the name.

Dry Docks will mask all other detail except route markers, kilometric distance indicators and annotation.

| Data rules |
|---|
| Dry Docks must appear over the sea or waterbody features. ie. they cannot appear over land. |
| Related features |
| |
| Related chapters |
| |

EMBANKMENT

An artificial bank of earth and or stone built above the natural surface.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) | |
|------------|----------------|--------|-------|--|
| Length | Height | 100K | 250K | |
| 2 mm | ½ contour int. | | | |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | embankment | |
| Coverage (see Section 3 chapter 4) | m | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 31

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

The linear feature for which the embankment was made need no longer exist, eg a dismantled railway line.

An embankment may be either on one side of the linear feature (or its former position) or may be paired with a second embankment on the other side. The combination of an embankment on one side and a cutting on the other is permissible.

GEODATA

Map

Data rules

An embankment feature represents the top of the embankment entity. The feature will always be oriented so that the downslope will be on the right going from start node to end node.

Embankments can not cross the feature for which the embankment was created or other Roads, Railways, Canals, Watercourses, Dam or other Morphology coverage features.

Embankments cannot appear over the following;

Sea, Lakes, Reservoirs, Offshore and Building Area features.

Related features

Cutting and Levee

Related chapters

FEATURE POINTER

A symbol used to graphically link text to a feature where the density of detail may result in ambiguity.

| Minim | um Siz | e for Inclus | sion | | | Scales | Feature Usage |
|---------|----------|------------------------------|---------------|-----------------|-------------|---------------------|-------------------------|
| | Dimens | sions | Area (| sq m) | | 1:250 000 | Мар |
| l e | ngth | Height | 100K | 250K | | & 1:100 000 | |
| | 9 | 1.0.g.n. | 10011 | 20011 | | | • |
| | | | | | _ | | |
| Spatia | l objec | t | | | | | |
| Re | present | tation | | Chain | | | |
| Pla | ınimetri | c Accuracy | | 9999 / 9 | 999 | | |
| Fea | ature co | ode | | pointer | | | |
| Co | verage | (see Section | n 3 chapter | 4) 5 | | | |
| | | | | | | | |
| Data A | ttribut | es | | | | | |
| GEOD | ATA ar | <u>id working d</u> | latabase | | | | |
| | | | | | | | |
| Montein | | haaa anb. | | | | | |
| vvorkir | ig datai | base only | | | | | |
| | | mbol) [binary | | | | | |
| 265 | numb | er applicabl | e: | | | | |
| _ | | | | | | | |
| | al Note | | (a. 1.1.1. a. | | and a Const | | (] . (.) 0 |
| | | the feature pter 5.3 rule | | name or des | criptive r | note refers in area | s of dense detail. See |
| To bo | ucod or | dy whore a | footuro cuel | a ac a cmall r | oolygon i | must be named or | · labelled and the name |
| | | ot be placed | | | olygon | must be named of | labelled and the name |
| Thous | o of thi | e feature is t | to he kent to | o a minimum. | | | |
| THE US | e or un | s leature is | to be kept to | J a minimum. | | | |
| GEOD | ATA | | | | | | |
| | | | | | | | |
| Мар | | | | | | | |
| | | | | | | | |
| Data r | ules | | | | | | |
| | | ers will be di | gitised such | n that the star | rt node is | s near the annotat | ion and the end node is |
| | | re being ind | | | | | |

Related features

Annotation

Related chapters

Section 2 chapter 5.3

FENCE

A structure which encloses, bounds or divides a property or part thereof. Includes vermin proof fences.

Minimum Size for Inclusion

| Dimensions | | Area (| (sq m) |
|------------|--------|--------|--------|
| Length | Height | 100K | 250K |
| 10 mm | | | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | Fence | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 927

0 Where a vermin proof fence follows a state border or road.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide'. The exception is that major vermin proof fences will be shown in all locations. Size and any other selection criteria apply to all feature occurrences.

At 1:250 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide', regardless of whether it previously existed in the base Series 2 data. The exception is that major vermin proof fences will be shown in all locations. Size and any other selection criteria apply to new feature occurrences. All vermin proof fences and feature occurrences in sparsely settled regions existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Fences around small paddocks adjacent to farm houses and homesteads will be omitted.

Fence features less than 10 mm in length may be used to depict yards greater than 2.5 mm x 2.5 mm at map scale - refer feature 'Yard'.

Where a vermin proof fence follows a state border or a road (excluding Vehicle Tracks), the fence feature should be symbolised to 0 (non-printing) and the text_note 'vermin proof fence follows state border' or 'vermin proof fence follows road' should be applied.

Where a vermin proof fence and a vehicle track are adjacent, an assessment must be made as to whether

- The vehicle track is considered important in terms of road network connectivity; and/or
- The vehicle track is servicing a natural or cultural feature, excluding the fence, represented within the new topographic map and data product eg. Tower, mine, spring, etc.

If the track is deemed important, show the track, add the text_note 'vermin proof fence follows track' and symbolise vermin proof fence to 0. If not, the track should not be included in the data and a text_note 'track follows vermin proof fence' should be added to the fence feature shown on the map.

All of the above text_notes should be applied to the features in the utilities coverage.

Where a fence follows a road (excluding vehicle tracks) the fence should not be included in the data. Where a fence and a vehicle track are adjacent, an assessment must be made as to whether:

- The vehicle track is considered important in terms of road network connectivity; and/or
- The vehicle track is servicing a natural or cultural feature, excluding the fence, represented within the new topographic map and data product eg. Tower, mine, spring, etc.

If the vehicle track meets either of the above criteria then the vehicle track should be shown on the map, in accordance with the specifications. Alternatively, if the vehicle track does not meet either of the above criteria then the fence should be shown, provided it adds a meaningful connection to the existing fence network. These guidelines apply to both features existing on the previous edition maps and new features and are subject to Appendix C rules regarding fence selection.

GEODATA

Map

Vermin proof fences will have an accompanying descriptive note eg 'vermin proof fence'.

Fences will be masked by gate stock grid and yard symbols and by roads.

Fences will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

Fences cannot overlap;

Sea and Building area features.

If the fence feature crosses other utilities features a node will be shown at the intersection point. ie. the arcs will be split.

Related features

Gate, Stock grid and Yard

Related chapters

Section 3 chapter 5.11.2 Appendix C

FERRY ROUTE

A route across a river, lake, reservoir or sea used by a vessel for the regular transport of vehicles or passengers from one terminal point to another.

Minimum Size for Inclusion

| | Dimensions | | Area | (sq m) |
|----|---------------|--|------|--------|
| Le | Length Height | | 100K | 250K |
| | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | ferry_route | |
| Coverage (see Section 3 chapter 4) | V | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the ferry service.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 20

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 All feature occurances existing in the base material/digital data will be retained unless there is clear evidence they no longer exist. Revision source material will be provided for ferry routes to be shown.

At 1:250 000 All feature occurances existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Revision source material will be provided for new ferry routes to be shown.

Only operational ferry routes will be shown. If a ferry route is not part of the road network, ie the ferry does not carry vehicles, the route will only be shown if it is longer than 3 mm at map scale.

Trans- Tasman and other long distance Ferry routes will be shown.

GEODATA

Ferry routes that form part of the road network will connect to the road network.

Мар

All ferry routes, including those not symbolised, are to be labelled 'ferry'.

Where a Ferry route crosses the edge of the map a note will be placed along the route close to the edge giving the main destination eg 'Sydney to Devonport.'

Data rules

Ferry Routes will have as their starting point the appropriate terminating point of Road or Rail features. That is, the end node of the Road/Railway will be a shared node used for the starting point of the Ferry Route. This is required to ensure network connectivity.

Where one Ferry Route crosses another Ferry Route or overhead bridge a node will be shown at their intersection point. ie. the arcs will be split.

Ferry Routes will only appear over; Rivers, Lakes, Reservoirs and Sea area features.

Related features

Railway and Road

Related chapters

Section 3 chapter 3.2.4

FLOW DIRECTION ARROW

A symbol used to indicate the direction of flow of water through a river system where it is unclear using the topological relationships shown on the map face.

| Minimum Siz | Minimum Size for Inclusion | | | | | Feature Usage |
|-----------------------------------|---|---|---|---|----------------------------|--|
| Dimensions Area (sq r | | | sq m) | 1:100 | 000 | Мар |
| Length | Height | 100K | 250K | | | |
| | | | | | | |
| | | | | 1 | | |
| Spatial object | ct | | | | | |
| Representation Poin | | | | | | |
| 1 | ic Accuracy | | 9999 | | | |
| Feature c | ode | | flow_dire | ct | | |
| Coverage | (see Section | on 3 chapter | 4) 5 | | | |
| Data Attribut | res | | | | | |
| GEODATA ar | | database | | | | |
| Working data | base only | | | | | |
| SYMBOL (syn Symbol numb 948 | per applicabi | le: | 4.5.01 | | | |
| ORIENTATION Orientation in | | | | clockwise; 0-360 | | |
| General Note | es | | | | | |
| the direction of the downstrea | of flow may l am end of th in a swamp | be unclear. ` ne feature. N n, or where d | The flow direction of lirection of flow | ain of watercourse tion arrow must be flow arrow will be v can be reasonab | e coincident added wher | t with the node at n a watercourse |
| the centre of | the arrow sy | mbol (e.g. a | approximately | | d exist betw | ects directly through reen each branch of |
| GEODATA | | | | | | |
| | | | | | | |
| Мар | | | | | | |
| | | | | | | |
| Data rules | | | | | | |
| | | | | | | |
| - | | | | | | |

Related features

Watercourse

Related chapters

FOOT BRIDGE

A structure erected over a depression or obstacle to carry foot traffic.

| Mi | nimum Siz | e for Inclus | sion | | Scales | | Feature Usage |
|---|---|-------------------------------|--------------------------------|---------------|---------------------|--------------|---------------------|
| | Dimens | ions | Area (| sq m) | 1:100 | 000 | GEODATA & Map |
| | Length | Height | 100K | 250K | | | |
| | 1 mm | | | | | | |
| | | | | <u> </u> | J | | |
| Sp | atial objec | t | | | | | |
| | Represent | ation | | Chain | | | |
| | Planimetri | c Accuracy | | - / 40 | | | |
| | Feature co | ode | | foot_brid | ge | | |
| | Coverage | (see Sectio | n 3 chapter | 4) v | | | |
| | | | | | | | |
| _ | ta Attribute | | | | | | |
| <u>GE</u> | ODATA an | d working d | <u>latabase</u> | | | | |
| NA | ME (name) | [character; | 50,50,C] TI | he name of th | e foot track on whi | ch the bridg | ge is located. |
| Se <til< td=""><td colspan="7">DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4 Working database only</tile-id></td></til<> | DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4 Working database only</tile-id> | | | | | | |
| | mbol numb | nbol) [binary er applicabl | | | | | |
| General Notes | | | | | | | |
| | | | | | | | |
| GE | ODATA | | | | | | |
| | | | | | | | |
| Ма | ıp | | | | | | |
| | | | | | | | |
| Da | ta rules | | | | | | |
| | | | h a foot trac e ends of the | | nd end points of th | e bridge mu | ust fall exactly on |
| Re | lated featu | res | | | | | |
| Fo | ot track | | | | | | |
| Re | lated chap | ters | | | | | |
| | | | | | | | |

FOOT TRACK

A track designed to carry pedestrian traffic only.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|-------|
| Length | Height | 100K | 250K |
| 5 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | foot_track | |
| Coverage (see Section 3 chapter 4) | V | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the foot track.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 22

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:250 000 details of foot tracks to be included will be supplied, only tracks of national significance will be included.

At 1:100 000 scale popular scenic / tourist foot or bridle paths will be shown.

Foot tracks will only be shown where they do not follow roads or vehicle tracks shown on the map.

GEODATA

Map

Foot tracks are to have an accompanying descriptive note 'foot track' unless 'foot track' or an equivalent term is included in the name.

Where the position of new foot tracks can not be verified on the imagery or other revision source material they are to be labelled ' (position approximate)'

A descriptive note may be added on the map where a Foot track is not included because it follows a road, for example 'Hume and Hovell Walking Trail follows track'.

Foot tracks will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

Related features

Foot bridge

Related chapters

Section 3 chapter 3.2.4

FORD

A shallow or flat portion of the bed of a watercourse or lake where a crossing may be effected.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|------|
| Length | Height | 100K | 250K |
| | | | |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | Point | |
|------------------------------------|----------|----------|--|
| Planimetric Accuracy | 100 / 40 | 100 / 40 | |
| Feature code | ford_l | ford_p | |
| Coverage (see Section 3 chapter 4) | V | V | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road on which the ford is located.

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,I] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

21 (line)

0 (point / non printing line)

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

Λ

Attribute for point only.

ORIENTATION (orientation) [binary; 4,5,B] Currently not used for symbology;0 Attribute for point only.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

All feature occurrences on the base material/digital data or the latest previous edition map will be shown unless there is clear evidence they no longer exist.

The NAME attribute will carry the name of the road the ford is on. Named fords may be shown as a locality coded place name.

GEODATA

Where a ford creates a gap in the road network it will be closed by a chain Ford.

Map

Fords shorter than 3 mm at map scale, including point features, will not be symbolised.

All fords, including those not symbolised, are to be labelled 'ford'.

Data rules

Linear Fords can only appear over Watercourse areas or perennial Lakes, and must connect end to end with a road (ie. node to node) on either side of the watercourse.

Point Fords must be within a metre of the chord on a linear watercourse in both geographical and MGA94 coordinates, and be coincident with a node in the road network.

The Formation, National route number, State route number & Classification attributes will be shown on the Ford feature exactly as on the Road feature to which it is attached.

Related features

Road, Road bridge, Road causeway and Watercourse

Related chapters

Section 3 chapters 5.9 and 5.11.2

FORESHORE FLAT

That part of the seabed or estuarine areas, between mean high water and the line of lowest astronomical tide.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | forshor_flat | |
| Coverage (see Section 3 chapter 4) | 0 | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 22

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

GEODATA

Мар

Data rules

Foreshore flats are bounded by the offshore line feature.

Foreshore Flats must be over either Sea, Watercourse area or Lake, and cannot overlap other Offshore areas.

Related features

Mainland, Offshore line and $\overline{\text{Tile edge}}$

Related chapters

Section3 chapter 6.9.3

GAS WELL

A pipe sunk in the ground for the purpose of obtaining subterranean oil or gas.

Minimum Size for Inclusion

| Dim | ensions | Area (| (sq m) |
|--------|---------|--------|--------|
| Length | Height | 100K | 250K |
| | | | |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | gas_well | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 103

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

All feature occurrences on the base material/digital data or the latest previous edition map will be captured/retained unless there is clear evidence they no longer exist.

Wells will not be shown within a built-up area.

These features may be located inland or offshore.

Abandoned wells will only be shown if of landmark significance.

GEODATA

Map

Gas wells are to have an accompanying descriptive note eg 'gas well', 'oil well' unless the words 'gas well', 'oil well' etc are included in the name.

Abandoned wells will have '(abandoned)' at the end of the descriptive note or name.

Data rules

Gas wells can not appear over Building area or Built-up areas.

Related features

Mine

Related chapters

GATE

An opening in a fence or wall for the passage of vehicles, people or animals and which may contain a device to limit passage.

Dimensions Area (sq m) Length Height 100K 250K

1:250 000 & 1:100 000

Feature Usage GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | gate | |
| Coverage (see Section 3 chapter 4) | ٧ | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 26

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' except for gates on Vermin Proof fences which will be shown in all areas.

At 1:250 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide', regardless of whether it previously existed in the base Series 2 data, except for gates on Vermin Proof fences which will be shown in all areas.

Gates will not be shown on vehicle tracks with the exception of gates in Vermin or Dog-proof fences which will be shown in all areas.

GEODATA

Map

The underlying fence symbol will be masked out for the gate symbol.

Data rules

Gates must fall exactly on the Fence and underlying road feature. They will be coincident with a node in the road. If necessary a vertice can be added to the fence to ensure the fence, road and gate are coincident with each other.

Gates cannot appear in;

Building Area, Sea, Lake, Canal area, Watercourse area or Reservoir features.

Related features

Fence, Road and Stock grid

Related chapters

Section 3 chapters 5.9 and 5.11.2

Appendix C

GRATICULE LINE

A line on a map or chart representing a parallel of latitude or a meridian of longitude including cross ticks.

| Minimum Size | e for Inclus | ion | | Scales | | Feature Usage |
|-------------------|---------------|----------------|-----------------|---|------------|--|
| Dimens | ions | Area (s | sq m) | 1:250 & | 000 | Мар |
| Length | Height | 100K | 250K | 1:100 | 000 | |
| | | | | | | |
| Spatial object | t | | | | | |
| Represent | ation | | Chain | | | |
| • | c Accuracy | | 100/40 | | | |
| Feature co | • | | graticule | | | |
| | | n 3 chapter | | | | |
| Data Attribute | • | | | | | |
| GEODATA an | | atahase | | | | |
| <u>OLODATA an</u> | d Working d | <u>atabase</u> | | | | |
| Working datab | oase only | | | | | |
| SYMBOL (syn | nhol) [hinar | r: 4 5 Bl | | | | |
| Symbol number | | | | | | |
| 575 | | | | | | |
| General Note | s | | | | | |
| See appendix | B for spacir | ng of lines a | nd ticks | | | |
| GEODATA | | | | | | |
| | | | | | | |
| Мар | | | | | | |
| | | | | | | avoidable then it is nt reference points on |
| measurement | will be 0.2 r | mm on eithe | r side of the t | voidably overprint ype where it cross complete in the d | es the fea | |
| Data rules | | | | | | |
| | | | | | | |
| Related featu | res | | | | | |
| Annotation and | d Grid line | | | | | |
| | | | | | | |

Related chapters

Section 2 chapter 3.1.2, Section 3 chapter 5.10 Appendix B chapters 2, 3 and 9

GRID LINE

A line forming part of a rectangular Cartesian coordinate system that is superimposed on maps and charts to permit identification of ground locations with respect to other locations and the computation of direction and distance to other points.

| Minimum Siz | ze for Inclus | sion | | Scales | Feature Usage |
|-------------|---------------|------|--------|----------------|---------------|
| Dimen | sions | Area | (sq m) | 1:250 000 & | Мар |
| Length | Height | 100K | 250K | 1:100 000 | |
| | | | | | |

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100/40 | |
| Feature code | grid_map | |
| Coverage (see Section 3 chapter 4) | 6 | |

Data Attributes

GEODATA and working database

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

573 - Standard line

574 – 100 000 metre line at 1:250 000 & 10 000 metre line at 1:100 000

0 - Where the grid line follows the central meridian.

General Notes

The grid line will be broken for grid values. Breaks on northings will be 2 mm and breaks on eastings will be 3 mm.

GEODATA

Map

Black and red type should be placed such that it does not overprint the grid. If this is unavoidable then it is preferable that the grid intersections are kept visible, as these are an important mensuration points on the map.

The grid will not be broken where overprinted by black and red type.

The grid line will have a symbol 0, ie: will not print, where it follows the central meridian of the UTM zone.

| Data rules | | | |
|------------|--|--|--|
| | | | |

Related features

Annotation and Graticule line

Related chapters

Section 2 chapters 2.4 and 3.1.1 Appendix B chapters 2 and 3

HORIZONTAL CONTROL POINT

A point on the ground, the geographical position of which has been determined by geodetic survey.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|---------------|--|--------|-------|
| Length Height | | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 1/1 | |
| Feature code | trig_station | |
| Coverage (see Section 3 chapter 4) | у | |

Data Attributes

GEODATA and working database

ELEVATION (elevation) [number; 7,7,N,2] elevation in metres from the Australian Height Datum.

CODE (code) [character; 24,24,C] The code which identifies the Horizontal control point. Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>6

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The name of the feature the Horizontal control point is located on.

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

51

0 - see Section 3 chapter 6.6 - Locality mountain features, Spot elevations and Horizontal control points

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

ORDER (order) [character, 4,4,C] The horizontal control point's horizontal accuracy order

General Notes

Horizontal control points will be selected from the Horizontal control points data file. Only permanently marked and monumented horizontal control points (ie those with a beacon, cairn or pole) that have elevations will be shown. Only points with a horizontal accuracy of double zero, zero, first, second and third order will be shown.

No more than fifty points will be included on a standard map area. Where the land area of the map differs from the standard size, the maximum number will be in proportion.

If the number of monumented stations in the working database exceeds fifty all lowest order stations will be dropped. This process will be repeated until the number is less than the maximum. This process will take precedence over the overlap rules in Section3 chapter 5.3

The NAME field will be populated with the name of a prominent feature upon which the horizontal control point is situated. This feature must have a defined position within a localised area and should be represented elsewhere in the database under a different feature class, such as a locality mountain or a locality place name of clear locality (symbolised with symbol 52). Large area features such as ranges are not appropriate. The National Geodetic Database items name 1, name 2 and name 3 will not be used to populate the horizontal control point name field.

The CODE field will be populated with the alphanumeric designations from the National Geodetic Database. The alphanumeric designation will be found in the name 1, name 2 or name 3 field in the National Geodetic Database. Where there is no alphanumeric designation code this field will be left blank. Only alphanumeric designations containing letters and numerals will be included. Solely numeric designations will not be included nor will designations including words or place names such as 'Ravensthorpe 1' or 'log2'. Horizontal control point names from the name 1, name 2 or name 3 field will not be shown in the code field. Where more than one alphanumeric designation exists in the National Geodetic Database for a Horizontal control point an arbitrary choice will be made.

GEODATA

Мар

Where a horizontal control point and another cultural feature such as a Landmark Point feature are adjacent or coincident, precedence will be given to the other cultural feature (see Section 3 chapter 6.6).

Alphanumeric designations will be shown when the horizontal control has no feature name. If a horizontal control point has a feature name, the alphanumeric designation will not be shown (See Section 2 chapter 5.13).

Data rules

Horizontal control points will not appear over;

Sea, Lakes, Reservoirs, Canal areas, Watercourse areas and Building Areas.

Auxiliary Contours, Contours and Horizontal Control Points or Spot elevations will not contradict each other.

Except for the application of the datum shift, Horizontal control points will not be moved from the coordinates supplied.

Related features

Auxiliary Contour, Benchmark, Contour, Landmark Point, Locality (mountain) and Spot elevation

Related chapters

Section 1 chapter 3.6.5 Section 2 chapter 5.13

Section 3 chapters 3.2.4 and 6.6

HYPSOMETRIC AREA

The area enclosed between adjacent contours.

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K

| Sc | ales | |
|----|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage GEODATA

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | hypso_a | |
| Coverage (see Section 3 chapter 4) | С | |

Data Attributes

GEODATA and working database

ELEVATION (elevation) [number; 7,7,N,2] Elevation in metres from the Australian Height Datum (see general notes)

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

The elevation of the hypsometric areas is defined as the minimum elevation of all the bounding contours (excluding auxiliary contours).

Areas enclosed by one depression contour will carry for elevation the value of the depression contour minus the contour interval.

This feature will not be shown in sea areas.

Where hypsometric areas meet the edge of the working database the elevations must match those of any adjoining areas which have working data available.

GEODATA

Map

Data rules

Hypsometric areas are bounded by contour features.

Waterbodies do not form voids in Hypsometric areas.

All non-sea areas must be covered by Hypsometric areas

Adjacent Hypsometric areas must have their elevations differing by only one contour interval.

Related features

Contour and Tile edge

Related chapters

Section 3 chapter 6.1

ISLAND

An area of land fully surrounded by the sea.

Minimum Size for Inclusion

| Dimen | Dimensions | | sq m) |
|--------|---------------|-----|-------|
| Length | Length Height | | 250K |
| | | 625 | 3906 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | island | |
| Coverage (see Section 3 chapter 4) | f | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the island

STATE/TERRITORY (state) [integer; 1,1,I] State identifier code;

- 0 NOT APPLICABLE
- 1 ACT: Australian Capital Territory
- 2 JBT: Jervis Bay Territory
- 3 NSW: New South Wales
- 4 NT: Northern Territory
- 5 QLD: Queensland
- 6 SA: South Australia
- 7 TAS: Tasmania
- 8 VIC: Victoria
- 9 WA: Western Australia

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

This feature refers to offshore islands only.

New features smaller than the minimum size will be shown as Offshore Rocks with a RELATIONSHIP of 4 – Bare.

See Section 1 chapter 3.8.5.

GEODATA

Map

The island name will appear on the map.

Data rules

Islands are bounded by Waterline Junction and/or Sea wall features.

Islands cannot overlap each other.

Related features

Junction, Sea Wall, Tile edge and Waterline

Related chapters

Section 1 chapter 3.8.5

Section 3 chapters 6.3 and 6.9.3

JETTY

A structure projecting into a body of water for use as a promenade or as a platform alongside which vessels may be secured for loading and unloading passengers and cargo.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) |
|---------------|------|--------|-------|
| Length Height | | 100K | 250K |
| 1 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | jetty | |
| Coverage (see Section 3 chapter 4) | h | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 70

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

See also Wharf.

GEODATA

Мар

Jetties are to have an accompanying descriptive note eg 'jetty', 'marina', 'pier' unless the words 'jetty', 'marina' 'pier' etc are included in the name.

Data rules

Jetties can not overlap Building areas.

Related features

Breakwater, Sea wall and Wharf

Related chapters

Section 3 chapter 3.2.4

JUNCTION

An artificial line used to separate adjacent hydrographic areas which have differing attributes and across which flow can occur.

| Minimum Size for Inclusion | on | | Scales | | Feature Usage |
|---|---------------|------------|----------------------|--------------|-----------------------|
| Dimensions | Area (sq | m) | 1:250 & | 000 | GEODATA |
| Length Height | 100K 2 | 250K | 1:100 | 000 | |
| Spatial object | | | | | |
| Representation | | chain | | | |
| Planimetric Accuracy | | 9999 / 999 | 99 | | |
| Feature code | | junction | | | |
| Coverage (see Section | 3 chapter 4) | f and w | | | |
| Data Attributes | | | | | |
| GEODATA and working da | <u>tabase</u> | | | | |
| DATA QUALITY POINTER Section 1 chapter 3.5 and 9 <tile-id>2</tile-id> | | | C] Pointer to attrib | ute and feat | ture reliability (see |
| UNIQUE FEATURE IDENT Section 1 chapter 3.4 and \$ | | | 0,10,C] Alphanum | eric feature | identifier (see |
| Working database only | | | | | |
| SYMBOL (symbol) [binary; Symbol number applicable: 0 | | | | | |
| OLD UNIQUE FEATURE IL GEODATA TOPO-250K Se | | | | | |
| General Notes | | | | | |

Мар

Data rules

GEODATA

Junctions will be included in the Framework coverage where they form part of the coastline, and will replace the equivalent section of waterline. They will also appear in the framework cover where they separate two seas.

See Section 1 chapter 3.8.4

Junctions may also form a section of the boundary of lakes, Land subject to inundation, swamps, marine swamps, reservoirs, settling ponds, canal polygons and watercourse polygons.

Junctions are generally 2 point lines except where more vertices are needed to close the polygon and maintain the correct polygon closing line shape.

Junctions must be bordered by waterbodies in the Waterbodies coverage or by the sea on one side in the Framework coverage.

Junctions are only used to separate water polygons where there is no physical feature already doing so.

They are most commonly used to separate water polygon features with different names.

Related features

Canal, Connector, Contour, Island, Lake, Land subject to inundation, Mainland, Reservoir, Sea, Saline coastal flat, Swamp and Watercourse

Related chapters

Section 1 chapter 3.8.4 Section 3 chapters 5.11.1 and 5.11.3

KILOMETRIC DISTANCE INDICATOR

A symbol used to indicate points between which road distances are given.

| Minimum Size fo | or Inclusion | | Scales | Feature Usage |
|-----------------|--------------|------------------|-----------------------------|---------------|
| Dimension: | s Are | a (sq m) 250K | 1:250 000 & 1:100 000 | Мар |
| | | | | |

Spatial object

| Representation | Point | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | distance_ind | |
| Coverage (see Section 3 chapter 4) | 5 | |

Data Attributes

GEODATA and working database

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 54

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360

General Notes

Pairs of Kilometric distance indicators must have a number showing distance between them.

Distances shall be measured to the nearest kilometre.

Use to show distances between two significant features eg between towns, major road intersections and road junctions or a combination of the above.

At 1:250 000

When a destination point falls on an adjoining sheet to the south or west, a kilometric distance marker will be placed at the intersection of the road and the neatline. When a destination point falls on an adjoining sheet to the north or east, a kilometric distance marker will be placed at the intersection of the road and the graticule line which forms the boundary of the adjoining map. When a destination falls within the bleed edge the Kilometric distance indicator will be placed on the destination. In these two cases no distance is required between the Kilometric distance indicator at the graticule and the trim line of the map. See Section 2 chapter 5.9

At 1:100 000

When a destination point falls on an adjoining sheet to the south or west, a kilometric distance marker will be placed at the intersection of the road and the neatline. When a destination point falls on an adjoining sheet to the north or east, a kilometric distance marker will be placed at the intersection of the road and the GDA94 graticule line which forms the boundary of the adjoining GDA94 map. No destination point will be indicated within the area between the GDA94 and AGD66 neatlines. No distance is required between the Kilometric distance indicator at the graticule and the trim line of the map. See Section 2 chapter 5.9

GEODATA

Map

The needle end of the symbol should point exactly at the town or road junction from which the distance is to be measured and will just touch the outside of the road or town symbol.

Kilometric distance indicators along the graticule lines that form the edge of the adjacent maps to the north and east will preferably be aligned so that the symbol falls in the bleed edge for 1:250 000 and inside the Geodata tile extents for 1:100 000 – see section 3 chapter 6.4.

Distances between Kilometric distance indicators will be shown as Annotation features.

Data rules

Related features

Annotation, Built-up area, Locality, Road, Road destination arrow and Tile edge

Related chapters

Section 2 chapter 5.9 Section 3 chapters 5.9 and 6.4

LAKE

A naturally occurring body of mainly static water surrounded by land.

Minimum Size for Inclusion

| Dimens | sions | Area (| sq m) |
|--------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | 10000 | 62500 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | lake | |
| Coverage (see Section 3 chapter 4) | W | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Lake's name

PERENNIALITY (perennial) [integer; 1,1,I] Code for perenniality;

- 1 Perennial
- 2 Non-perennial

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable:

10 - Perennial

11 - Non-perennial

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

New features smaller than the minimum area and on a watercourse will be shown by the feature 'waterhole'.

New features smaller than the minimum area and not on a watercourse will be shown by the feature 'Waterpoint'. This includes small lakes within the boundaries of a braided stream which are not on a watercourse.

Perenniality of lakes will be according to Appendix D - Inland water features guide where the lake is shown on the guide. Perenniality of Lakes not on the guide will be as shown on the base material/digital data. Where a lake was not previously shown, perenniality should be non-perennial unless there is strong evidence to the contrary.

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Map

In areas containing numerous small lakes, sufficient will be shown to indicate the extent of the area and a suitable descriptive note added eg 'numerous small lakes'.

Claypans and saltpans will be labelled eg 'claypan'. Lakes will be labelled 'salt' where known to be saline.

Lakes will mask parks.

Data rules

Lakes will be bounded by Waterline and Junction features. (See Section 1, 3.8.4).

Lakes cannot overlap other waterbody cover polygons or Sea, Built-up area, Relief area cover features (except for Relief area voids) or Vegetation polygons (except voids and Woody vegetation).

Perennial Lakes cannot overlap Woody vegetation.

Related features

Connector, Junction, Reservoir, Tile edge, Watercourse, Waterhole, Waterline and Waterpoint

Related chapters

Section 1 chapters 3.8.3, 3.8.4, 3.8.9 and 3.9.1 Section 3 chapters 6.9.1 and 6.9.4

LAND SUBJECT TO INUNDATION

Low lying land usually adjacent to lakes or watercourses, which is regularly covered with flood water for short periods.

Minimum Size for Inclusion

| | Dimens | sions | Area (| sq m) | |
|---|--------|--------|--------|--------|--|
| L | ength | Height | 100K | 250K | |
| | | | 62500 | 390625 | |

Scales

| | |
|-------------|--|
| 1:250 000 | |
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | sub_to_inund | |
| Coverage (see Section 3 chapter 4) | W | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The feature's name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 14

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where the small polygons are less than 0.5 mm apart at map scale.

GEODATA

Map

Data rules

Land subject to inundation will be bounded by waterline and junction features. (See Section 1, 3.8.4).

Land subject to inundation cannot overlap other waterbody cover polygons or Sea or Built-up areas.

Connectors may be shown through this feature.

Related features

Connector, Junction, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.3, 3.8.9 and 3.8.4 Section 3 chapter 6.9.2

LANDMARK AREA

Man-made or defined permanent features having landmark value or useful for navigation.

Minimum Size for Inclusion

| Dimens | sions | Area (| sq m) |
|--------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | 40 000 | |

Scales

1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon |
|------------------------------------|------------|
| Planimetric Accuracy | - / 9999 |
| Feature code | landmark_a |
| Coverage (see Section 3 chapter 4) | i |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The feature's name

DESCRIPTION (description) [character; 20,20,C] Description of the type of Landmark area feature, for example 'wind farm', 'oyster beds', 'solar farm'. The description field will be all lower case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

U

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

Landmark area features will only be used for man made entities or areas defined by man for a specific use which are clearly identifiable either through signage or infrastructure.

Landmark area features will not be used for entities covered by another feature class, for example buildings, park, prohibited areas.

Landmark area features include the following or any other feature specified by Geoscience Australia through a special instruction or action request:

Wind Farm Solar Farm Tracking Station
Tidal Power Farm Cotton Gin (seasonal) Rest Area

Geothermal Power Farm Oyster Beds Aquaculture Pens (non land based)
Research Station Recycling Facilities

When representing a Windfarm as a landmark area individual Wind generators should still be captured in landmark points but not symbolised. Similar situations where landmark points have a direct relationship with a landmark area may be treated in the same manner.

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Map

Landmark area features are to have an accompanying descriptive note eg 'wind farm', 'oyster bed' unless the words 'wind farm', 'oyster bed' etc are included in the name.

Data rules

Landmark areas cannot overlap: Built-up Areas, Airport, Park, Cemetery, Rubbish Tip, Open Cut Mine

Landmark Area will be bounded by a Cultural Area Line feature.

Related features

Building, Settling Pond, Reserve Areas, Prohibited Areas, Park, Cemetery, Rubbish Tip, Airport, Landmark Point, Cultural Area Line

Related chapters

LANDMARK POINT

Man-made permanent features having landmark value or useful for navigation. Such features will have a height above the local terrain.

Dimensions Area (sq m) Length Height 100K 250K

| Scales | | | |
|--------|-----------|--|--|
| | 1:250 000 | | |
| | & | | |
| | 1.100 000 | | |

| Feature Usage | |
|---------------|---|
| GEODATA & | |
| Мар | |
| | • |

Spatial object

| Representation | Point | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | landmark_p | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

DESCRIPTION (description) [character; 20] Description of the type of Landmark Point feature, for example 'mircowave tower', 'wind generator', 'chimney'. The description field will be all lower case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

HEIGHT (height) [number; 6,6,N,2] Height of feature above ground level

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

501

0 – At 1:100 000 where landmark points have a direct relationship with landmark area (see general notes)

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map, may include a name

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

New towers and other obstructions will be added from the towers revision source material. Where the position of new towers can not be verified on the imagery or other revision source material they be labelled '(position approximate)'. If the feature is in a closely settled area, the exact location should be sought via an Action Request.

Landmark point features will only be used for man made entities. See the included terms cross reference.

Landmark point features are not shown in or in close proximity to Built-up areas, unless the feature is of significant landmark value.

Landmark point features will only be used for entities which cover a small area on the ground and which are usually prominent from a distance.

See the included terms cross reference. Landmark point features will not be used for entities covered by another feature class, for example buildings.

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

Offshore marine lights and beacons will not be included as landmark point features at 1:250 000. All features meeting selection criteria will be shown at 1:100 000.

At 1:250 000 the height attribute will only be populated where it is greater than or equal to **44.5** metres and a figure is provided in the base material/digital data or revision source material. At 1:100 000 the height attribute will be populated where a figure is provided in the base material/digital data or revision source material.

At 1:100 000 landmark point features whose area is larger than 40 000 sq. m will be shown as a landmark area feature.

At 1:100 000 when representing a Windfarm as a landmark area individual Wind generators should still be captured in landmark points but not symbolised. Similar situations where landmark points have a direct relationship with a landmark area may be treated in the same manner.

GEODATA

Map

Landmark point features are to have an accompanying descriptive note eg 'tower', 'lookout' unless the words 'tower', 'lookout' etc are included in the name.

Height above ground level of features will be shown as part of the descriptive note where it equals or exceeds **44.50** metres rounded to the nearest metre and when that information is available.

The height shown on the map will be rounded to the nearest metre.

Data rules

Related features

Building, Horizontal control point, Landmark Area, Lighthouse, Spot elevation, Storage tank and Water tank

Related chapters

Section 3 chapters 3.2.4 and 6.6

LEVEE

A low earth wall erected to restrain flood waters or to contain irrigation water.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | | |
|------------|--------|-------------|------|--|
| Length | Height | 100K | 250K | |
| 2 mm | 2 m | | | |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | levee | |
| Coverage (see Section 3 chapter 4) | m | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 921

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Height criteria will not apply to levees within Salt evaporators. (see Salt evaporator)

Where a levee and a road co-exist and the road travels the whole length of the levee then an embankment feature should be used instead of a levee.

GEODATA

Мар

Data rules

Levees cannot overlap Sea, or Building area features.

Levees cannot cross other morphology coverage lines.

Related features

Embankment, Salt evaporator and Salt evaporator internal line

Related chapters

LIGHTHOUSE

A building or structure housing a light used as a navigation aid to shipping.

Minimum Size for Inclusion

| | Dimens | sions | Area (sq m) | | |
|----|---------------|-------|-------------|------|--|
| Le | Length Height | | 100K | 250K | |
| | | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | lighthouse | |
| Coverage (see Section 3 chapter 4) | n | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Lighthouse's name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 72

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Lighthouse will be named in the data, but will only be named on the map (in accordance with approved reference sources) where the lighthouse does not have the same root name as the Island or Cape feature. For example, the name Bedout Lighthouse would not be shown when it is situated on Bedout Island.

The lighthouse need not be operational to be included.

Navigation beacons will not be classified as lighthouses.

Reference should be made to Supplementary Guideline No 6 (Lighthouses vs Marine Lights) when making decisions on whether a feature should be included in the new product.

Revision source material for Lighthouses will be supplied.

GEODATA

Where a Lighthouse and an Offshore rock are shown on the base material/digital data or revision source material to be coincident, one of the two features will be displaced by a maximum of 10 metres in any direction so both can be included in the data.

Map

Where a lighthouse and an offshore rock are in close proximity the lighthouse symbol will be given precedence but the name of the offshore rock will take precedence over the lighthouse name.

Data rules

Lighthouses cannot overlap the sea except when within 10m of an offshore rock.

Related features

Cliff, Landmark point and Offshore rock

Related chapters

Section 3 chapter 3.2.4

LOCALITY

A named place or area.

Minimum Size for Inclusion

| Dimens | Dimensions | | (sq m) |
|--------|---------------|--|--------|
| Length | Length Height | | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|---------------------------|--------------------------|
| Planimetric Accuracy | Codes 4, 5 & 12: 100 / 40 | Other codes: 9999 / 9999 |
| Feature code | locality | |
| Coverage (see Section 3 chapter 4) | I | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The locality's name.

LOCALITY CODE (locality) [integer; 2,2,I] Code identifying the type of locality;

- 1 Bay-inlet-cove
- 2 Beach
- 3 Cape-headland-point
- 4 Homestead
- 5 Road junction
- 6 Mountain-peak-hill
- 7 Pass
- 8 Populated place
- 9 Waterbody island
- 10 Place name
- 11 Gorge
- 12 Cemetery

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>1 - locality code 5

<tile-id>2 - locality code < 12 and not 4 or 5

<tile-id>4 - locality code 4 or 12

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable:

- 0 Bay-inlet-cove (non printing)
- 0 Beach

- (non printing)
- 0 Cape-headland-point (non printing)
- 40 Homestead
- 0 Road junction (non printing)
- 0 Mountain-peak-hill (non-printing see data rules for exceptions where symbol to be 52)
- 0 Pass (non printing)
- 0 Populated place (non-printing see data rules for exceptions where symbol to be 420)
- 0 Waterbody island (non printing)
- 0 Place name
 - (non-printing see data rules for exceptions where symbol to be 420 or 52)
- 0 Gorge (non printing)
- 451 Cemetery (see map rules for exceptions where symbol is to be 0 non-printing)

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

See also Section 3 chapter 6.5.

The homestead feature (Code 4) will only be shown in densely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' when considered significant. This will be regardless of whether it was shown on the base material/digital data (at 1:100 000) or base Series 2 data (at 1:250 000). For information on capture and display of the homesteads feature (Code 4) in moderately and sparsely settled areas refer to Appendix C.

Code 1, Bay, inlet, and cove: This code will be used for an indentation of the sea into the land and for the equivalent features in inland waterbodies. The Locality point will be positioned at a point in the sea or waterbody in the middle of the indentation.

Code 2, Beach: The names of all beaches on the base material/digital data and revision source material are to be included except where an adjacent populated place has the same root-name. ie. 'Bondi Beach' would not appear if there is an adjacent populated place on the map named 'Bondi'. The position of the Locality point will be coincident with the Waterline at the approximate centre of the beach.

Code 3, Cape, headland, head, point: This code will be used for a section of land protruding into the sea and for the equivalent features in inland waterbodies. The Locality point will be positioned at a point on the land representative of the location of the entity.

Code 4, Homesteads: Only operational homesteads will have this code. Outstations are to be considered as homesteads. The locality point for a homestead must be cloned with a building (see Building). Outcamps will be shown as a locality place name not as a homestead.

Code 5, Road Junction: Named road junctions are included. The position of the Locality point will be coincident with the node of the road intersection.

Code 6, Mountain-peak-hill: The locality point will be positioned exactly as shown on the latest previous edition map or base material/digital data. If a positioning point is not shown on the map

then other compilations or large scale maps may be used to position the locality feature.

Code 7, Pass: Named passes on the road network will be included. Any other passes included on the latest previous edition map or base material/digital data will be included. The locality point will be at the highest point on the pass. Where a pass is traversed by a road feature, the point will be coincident with a vertice on the road. If necessary, a vertice will be created on the road coincident with the highest point on the road.

Code 8, Populated Places: Populated places have a population of 200 or more. All populated places in the supplied Census database clip will be included as populated place localities. The names of populated places will be as named for the census. Where names have been combined for the census (eg hyphenated) they will be combined unless separate populations are given for the components in which case the components will be named separately.

The feature point for a populated place will be positioned coincident with a node or vertice on the road network unless there is no road within 1 mm at map scale of the built-up area associated with the populated place. If necessary, a vertice will be created on the road coincident with the locality populated place feature. For populated places with a population over 20 000 the point should be placed as near as possible on the road network to the location of the central post office.

The name of some populated places may appear two or three times in the Infrastructure layer eg. if there is also a Railway Station or a Built-up area polygon of the same name.

Code 9, Waterbody island: Only named inland islands and those which form part of the coastline will be depicted. (See Section 1 3.8.5). The locality point will be placed on land at the approximate centre of the island. Offshore islands will be named as an attribute of the polygon, see Island.

Code 10, Place Name: This category will be used to show localities that do not fall in any other category. Text & the locality point for large area features shown on Appendix F will be placed within the limits of the area. If the area on Appendix F occupies less than 5% of the area of the map (including the bleed edges) it will not be shown. The Locality point for other area features will be located where the name was located in the base material/digital data or where text was placed on the latest previous edition map.

'Other Waters' indicated on Appendix E will be shown as Locality Place Names. Oceans that overlay Seas will only be shown as annotation features in the Working Database.

Text & the locality point for Indigenous Lands shown on Appendix O will be placed within the limits of the area. If the area on Appendix O occupies less than 20% of the area of the map (including the bleed edges) it will not be shown.

Suburb names included on the latest previous edition map and confirmed on the authorised revision source material for suburb names will be included as place names.

Code 11, Gorge: The locality point will be placed approximately half way along the length of the gorge. The locality point will be coincident with a vertice on the main watercourse in the gorge, where there is a watercourse. Where there is no water course the locality point will be placed central to the gorge.

Code 12, Cemeteries: Used for cemeteries smaller than the size criteria for the Cemetery feature. Cemeteries which exceed the size criteria will be shown using the feature 'cemetery'. The locality point is to be placed within the cemetery.

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Code 4, Homestead; Homestead localities will be cloned as buildings.

Map

Code 4,

Homestead names will be shown as on the reference material supplied.

1:100 000

Individual buildings around the main homestead will be shown, if scale permits, by Building features.

Where a number of buildings in a homestead complex are grouped together and cannot be shown individually, they will be shown using one Homestead.

1:250 000

A homestead may be shown by a single feature representing a group of buildings.

Code 6, Mountain-peak-hill:

Locality Mountain-peak-hills will be named. See Section 2 chapter 5.10 for naming conventions.

Code 8, Populated place: Populated places will be named.

Code 10, Where symbol 420 is used, the symbol will mask all other detail.

Code 12, Where inclusion of a locality Cemetery would result in clutter they are to be symbolised to 0 non-printing.

Data rules

Where a locality name refers to a wide area the name may appear on a number of adjacent tiles eg 'Nullarbor Plain'. A locality of the same code and name should not be repeated on the same tile unless it relates to a number of entities sharing the same name.

Code 6 Mountain-peak-hill: If a Mountain-peak-hill feature appears on the latest previous edition map with a name and spot identifier only and a matching spot elevation does not exist then the Locality will have a symbol code of 52, otherwise a symbol code of 0.

Where there is a known elevation for the Mountain-peak-hill feature it will be cloned as a Spot elevation (see Spot elevation). Should the spot elevation need to be moved (see Section 3 chapter 6.6) the Locality Mountain-peak-hill will be moved with it.

Code 8 Populated places: Populated places will not be symbolised on the map if they fall within a Built-up area polygon but will have symbol 420 when no Built-up area polygon exists.

Code 10 Place name: Places with a population of less than 200 and a Built-up area not large enough to be shown as a polygon will be positioned coincident with a vertice or node on the road network. These places will have a symbol code 420. Note: symbol 420 will only be used where the place name is associated with a small built-up area. Small features with an indentifable location that are not represented by another feature class will be represented using symbol 52 (e.g. historical markers, rocks, etc).

Related features

Building, Built-up area, Cemetery, Horizontal control point, Kilometric distance marker, Railway station, Road, Spot elevation, Watercourse and Waterbody void

Related chapters

Section 1 chapters 3.8.5 and 3.8.7

Section 3 chapters 3.2.4, 5.11.1, 5.11.2, 6.3, 6.5 and 6.6

Appendix E

Appendix F

LOCK

An enclosure in a water body with gates at both ends to raise or lower the water level to enable vessels to pass from one level to another.

Minimum Size for Inclusion

| | Dimens | ions | Area (sq m) | | |
|---|---------------|------|-------------|------|--|
| L | Length Height | | 100K | 250K | |
| | | | | | |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | lock | |
| Coverage (see Section 3 chapter 4) | d | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Lock's name.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 754

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

The lock should appear central to the watercourse area passage width.

GEODATA

Map

The symbol will be oriented so the point faces upstream.

Locks are to have an accompanying descriptive note 'lock' unless the word 'lock' is included in the name.

Features should be labelled or named appropriately.

Locks will mask Lock Lines.

Data rules

Locks must appear in a watercourse area.

Locks must be coincident with a node on the connector feature.

At 1:100 000 Locks must be coincident with the middle vertex on a Lock Line.

Related features

Connector, Watercourse and Lock Line

Related chapters

Section 3 chapters 5.9 and 5.11.2

LOCK LINE

A line used to complete the representation of a lock and ensure the impression of an obstruction across the full width of the water passage (i.e a watercourse area).

| Minimum Siz | e for Inclus | sion | | Scales | | Feature Usage |
|---------------------------|---------------|----------------|---------------------|---------------------|-------------|-----------------------|
| Dimen | sions | Area (| sq m) | 1:10 | 0 000 | Мар |
| Length | Height | 100K | 250K | | | |
| Longin | ricigiit | 10010 | 23010 | | | |
| | | | | | | |
| Spatial object | et | | | | | |
| Donrocon | tation | | Chain | | | |
| Represen | ic Accuracy | | - / 40 | | | |
| Feature c | • | | Lock I | | | |
| | (see Sectio | n 3 chapter | | | | |
| o o r o r ag o | (000 0000 | 0 0 | ., | | | |
| Data Attribut | tes | | | | | |
| GEODATA a | nd working c | latabase | | | | |
| Working data | booo only | | | | | |
| Working data | | 4.5.01 | | | | |
| SYMBOL (sy Symbol numl | | | | | | |
| 42 | o. appineans. | | | | | |
| General Note | es | | | | | |
| | | | | | | a watercourse area at |
| right angles to | o the orienta | tion of the ic | ock leature und | der which it is sit | luated. | |
| GEODATA | | | | | | |
| | | | | | | |
| Мар | | | | | | |
| | | | | | | |
| Data rules | | | | | | |
| Lock Lines m | ust appear i | n a waterco | urse area. | | | |
| Fach end of t | he Lock Line | a must ha co | nincident with a | a vertey in the II | nderlying w | raterline surrounding |
| the watercou | | J IIIust DC CC | Siriolaciii Witii (| a vertex in the u | nachynig w | aterine surrounding |
| At 1:100 000 | Locks must | be coincide | nt with the mid | dle vertex on a | Lock Line. | |
| | | | | | | |
| Related feat | | and Lost | | | | |
| Connector, W | atercourse | and Lock | | | | |
| Related chap | | | | | | |
| Section 3 cha | nters 5 9 an | nd 5 11 2 | | | | |

Technical Specifications Version 3.6

Feature Usage GEODATA

MAINLAND

The area of continental Australia including Tasmania.

| Minimum Size | for Inclus | _ | Scales | | |
|--------------|------------|--------|--------|--|----------------|
| Dimensio | ons | Area (| sq m) | | 1:250 000 & |
| Length | Height | 100K | 250K | | 1:100 000 |
| | | | | | |

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | mainland | |
| Coverage (see Section 3 chapter 4) | f | |

Data Attributes

GEODATA and working database

STATE/TERRITORY (state) [integer; 1,1,I] State identifier code;

- 1 ACT: Australian Capital Territory
- 2 JBT: Jervis Bay Territory
- 3 NSW: New South Wales
- 4 NT: Northern Territory
- 5 QLD: Queensland
- 6 SA: South Australia
- 7 TAS: Tasmania
- 8 VIC: Victoria
- 9 WA: Western Australia

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

| General Notes | | |
|---------------|--|--|
| | | |
| GEODATA | | |
| GLODATA | | |

Map

Data rules

The mainland feature will be bounded by a combination of Waterline, State border, Sea wall and Junction features.

Mainland excludes Sea areas, and Islands surrounded by the Sea.

Mainland cannot overlap Offshore areas except Foreshore flats and associated Offshore voids in estuarine areas (see Foreshore flat).

Related features

Foreshore flat, Junction, Offshore void, Sea wall, State border, Waterline and Tile edge

Related chapters

Section 3 chapter 6.9.3

MANGROVE

A dense growth of mangrove trees, which grow to a uniform height on mud flats in estuarine or salt waters.

Minimum Size for Inclusion

| Dimer | nsions | Area (| (sq m) |
|--------|---------------|--------|--------|
| Length | Length Height | | 250K |
| | | 62500 | 390625 |

Scales

| 1:250 000 |
|-----------|
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | mangrove | |
| Coverage (see Section 3 chapter 4) | t | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Mangroves will be revised from the thematic mapper imagery to be supplied.

Size criteria will not apply where mangrove completely covers small islands i.e boundary of island is completely coincident with boundary of mangrove.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where the small areas of mangrove are less than 0.5 mm apart at map scale.

GEODATA

Map

Data rules

Mangrove will be bounded by a vegetation line feature.

Mangrove cannot overlap;

Aircraft facility polygon, Airport Area, Sand, Open cut/Mining area, Sand dunes, Windbreaks, other vegetation polygons, Sea, Building area and waterbody coverage features except Mangrove Flat.

At 1:250 000 Mangrove and Mangrove Flat must be a perfect clone of each other. ie each arc must be replicated in the other feature.

Related features

Connector, Woody vegetation, Mangrove flat, Tile edge, Vegetation line and Watercourse

Related chapters

Section 3 chapter 5.11.1

MANGROVE FLAT

A nearly level tract of land between the low and high water lines vegetated with mangroves

| Mi | inimum Siz | e for Inclus | ion | | Scales | Feature Usage |
|---|--------------|-------------------|----------------|---------------|---|---|
| | Dimens | sions | Area (| sq m) | 1:250 000 | GEODATA |
| | Length | Height | 100K | 250K | | |
| | Lengin | Tieigni | 62500 | 390625 | | |
| | | | 62500 | 390025 |] | |
| Sp | oatial objec | ;t | | | | |
| | Represen | tation | | Polygon | | |
| | • | ic Accuracy | | 9999 / - | | |
| | Feature co | ode | | mangrov | e_flt | |
| | Coverage | (see Sectio | n 3 chapter | 4) w | | |
| L | | | | | | |
| Da | ata Attribut | es | | | | |
| Gl | EODATA ar | nd working d | atabase | | | |
| l _D | ATA OLIALI | TY POINTE | R (a. info) [c | haracter: 8.8 | Cl Pointer to attribute | and feature reliability (see |
| Se | ection 1 cha | | | hapter 5.14); | | and realtire reliability (see |
| <t< th=""><td>le-id>2</td><td></td><td></td><td></td><td></td><td></td></t<> | le-id>2 | | | | | |
| UI | NIQUE FEA | TURE IDEN | ITIFIER (ufi) | [character; 1 | 0,10,C] Alphanumeric | feature identifier (see |
| | | | | hapter 5.14) | | · |
| <u>w</u> | orking data | base onl <u>y</u> | | | | |
| S | YMBOL (svi | mbol) [binar | /: 4.5.Bl | | | |
| | | er applicabl | | | | |
| 0 | | | | | | |
| | | | | | naracter; 10,10,C] UFI atures (see Section 3 | used for this feature in chapter 5.15). |
| G | eneral Note | es | | | · | |
| Se | ee Mangrov | e. | | | | |
| At | 1:250 000 | Mangrove fla | ats will be cl | oned from the | e revised Mangrove fe | atures. |
| GI | EODATA | | | | | |
| | | | | | | |
| Ma | ар | | | | | |
| _ | • | | | | | |

Data rules

Mangrove flats will be bounded by a waterline feature. They will not be bounded by a junction feature.

At 1:250 000 mangrove flats will be cloned from the revised Mangroves, and must perfectly match the mangrove, ie: each arc must be replicated in the other feature.

Related features

Mangrove, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.3, 3.8.4 and 3.8.9 Section 3 chapter 5.11.1

MAP AREA

The area covered by the working database.

| Minimum Siz | e for Inclus | sion | | _ | Scales | | Feature Usage |
|----------------|--------------|-------------|-----------|----------|------------|-----|-----------------------|
| Dimens | sions | Area (| sq m) | | 1:250 & | | Working database only |
| Length | Height | 100K | 250K | | 1:100 | 000 | |
| | | | | | | | |
| | | | | J | | | |
| Spatial object | t | | | | | | |
| Represen | tation | | Polygon | | | | |
| | ic Accuracy | | 9999 / 99 | 99 | | | |
| Feature c | • | | map_are | | | | |
| | | n 3 chapter | | <u> </u> | | | |
| | | | , | | | I | ' |
| Data Attribut | es | | | | | | |
| GEODATA ar | | database | | | | | |
| | | | | | | | |
| | | | | | | | |
| Working data | base only | | | | | | |
| | | | | | | | |
| | | | | | | | |
| General Note |)S | | | | | | |
| | | | | | | | |
| GEODATA | | | | | | | |
| | | | | | | | |
| Мар | | | | | | | |
| Мар | | | | | | | |
| | | | | | | | |
| Data rules | | | | | | | |
| | | | | | | | |
| Related featu | ıres | | | | | | |
| Map mask | | | | | | | - |
| Related chap | nters | | | | | | |
| Appendix H | | | | | | | |

MAP MASK

The bounding line for Map area.

| Minimum Siz | e for Inclus | sion | | <u></u> | Scales | | Feature Usage |
|-------------------------------|------------------|-----------------|-------------|-----------|-------------|--------------|-----------------------|
| Dimens | sions | Area (| sq m) | | 1:250 & | | Working database only |
| Length | Height | 100K | 250K | | 1:100 | 000 | |
| | | | | | | | |
| | • | | | _ | | | |
| Spatial objec | t | | | | | | |
| Represent | tation | | Chain | | | | |
| - | c Accuracy | | 1/1 | | | | |
| Feature co | ode | | map_ma | ısk | | | |
| Coverage | (see Sectio | n 3 chapter | 4) 8 | | | | |
| | | | | | | | |
| Data Attribut | | | | | | | |
| GEODATA ar | nd working d | <u>latabase</u> | | | | | |
| | | | | | | | |
| Manhina a ala (a) | | | | | | | |
| Working data | <u>base only</u> | | | | | | |
| | | | | | | | |
| General Note | es | | | | | | |
| | | | | | | | |
| | | | | | | | |
| GEODATA | | | | | | | |
| | | | | | | | |
| Мар | | | | | | | |
| | | | | | | | |
| Data rules | | | | | | | |
| | between ve | rtices will be | 0.002 degre | es (appro | oximately 2 | 200 metres o | on the ground). |
| | | | | | | | |
| Related featured Map area and | | | | | | | |
| iviap arca and | The eage | | | | | | |
| Related chap | ters | | | | | | |
| Appendix H | | | | | | | |

MARINE SWAMP

That low lying part of the backshore area of tidal waters, usually immediately behind saline coastal flat, which maintains a high salt water content, and is covered with characteristic thick grasses and reed growths.

Minimum Size for Inclusion

| | Dimens | ions | Area (| sq m) | |
|---|---------------|------|--------|--------|--|
| L | Length Height | | 100K | 250K | |
| | | | 40000 | 250000 | |

Scales

| Oddies |
|-----------|
| 1:250 000 |
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon |
|------------------------------------|--------------|
| Planimetric Accuracy | 9999 / 9999 |
| Feature code | swamp_marine |
| Coverage (see Section 3 chapter 4) | W |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 908

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where the small areas of marine swamp are less than 0.5 mm apart at map scale.

GEODATA

Мар

Watercourses entering swampy areas will be shown only to the limits of eroded channels.

Marine Swamps having distinctive vegetation will be labelled appropriately e.g. lignum, marsh, wetlands, cane grass unless a description is included in the name.

Marine Swamps will have a descriptive note "marine swamp". Where clutter occurs this note will take precedence to the distinctive vegetation label, otherwise where applicable both shall be shown.

Data rules

Marine Swamps cannot overlap;

Other waterbody coverage polygons, Sea or Open cut polygon areas.

Marine swamps will be bounded by Waterlines and may be bounded by Junction features (see Section 1 chapter 3.8.4)

Related features

Connector, Swamp, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.3, 3.8.4 and 3.8.9 Section 3 chapters 6.9.2 and 6.9.3

MINE

An excavation for the extraction of minerals.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) |
|--------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | mine | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Mine's name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 106 - symbolised mine

0 - Cloned Open cut/mining area

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Indicative revision source material for mines will be supplied. However, mines will be retained from the existing base material/digital data unless there is clear evidence they no longer exist and new mines will only be added when their position can be verified on the imagery or other reliable revision source material.

This feature may be used to indicate a small group of mines.

Open cut/mining area paracentroids will be cloned as mines.

GEODATA

Map

Mines larger than 140 625 square metres at 1:250 000 and 22 500 at 1:100 000 scale will be shown as Open Cut/Mining area features on the map.

Abandoned mines will be labelled 'abandoned'

Mines may have a descriptive note where its known function is expanded beyond that of the strict definition of a mine and where it provides additional meaningful detail to the map e.g. clay pit, gravel pit, mining area unless the words clay pit, gravel pit, mining area, etc are included in the name.

Where a mine is a clone of an open cut paracentroid a descriptive note may only be included where its known function is expanded beyond that of the strict definition of a mine and an open cut mine and where it would provide additional meaningful detail to the map. Descriptive notes meeting this criterion should be duplicated in the open cut mine feature but not on the map face. A descriptive note of "mine" is not to be used.

Data rules

Mines can appear in Built-up area. They will not overlap Building area features.

Related features

Gas well, Open Cut/mining area and Settling ponds

Related chapters

Section 3 chapters 3.2.4 and 5.11.1

OFFSHORE LINE

The line bounding polygons in the Offshore layer.

| Minimum Siz | e for Inclus | sion | | Scales | Feature Usage |
|---------------------------|---------------|-----------------|------------------|-----------------------------|------------------------------|
| Dimen | | | (sq m) | 1:250 000 | GEODATA |
| | | 7.1.00 | (= 4) | & | |
| Length | Height | 100K | 250K | 1:100 000 | |
| | | | | | |
| | | | | _ | |
| Spatial object | ct | | | | |
| | | | 0 | | |
| Represen | | | Chain | | |
| | ic Accuracy | | 100 / 40 | | |
| Feature c | | 0 -1 | offshor_ | | |
| Coverage | (see Section | n 3 cnapte | r 4) [o | | |
| | | | | | |
| Data Attribut | | | | | |
| GEODATA a | nd working o | <u>database</u> | | | |
| DATA QUALI | TY POINTE | R (q_info) | [character; 8,8 | B,C] Pointer to attribute a | and feature reliability (see |
| Section 1 cha | | | chapter 5.14) | | • (|
| <tile-id>4</tile-id> | | | | | |
| | | | | 10,10,C] Alphanumeric | feature identifier (see |
| Section 1 cha | apter 3.4 and | d Section 3 | chapter 5.14) | | |
| Working data | base only | | | | |
| | | | | | |
| SYMBOL (sy Symbol numb | | | | | |
| | | | een Reef of c | ode 2 (shoal) and Offsh | ore void, and between |
| Reef of code | 2 (shoal) an | | | , | , |
| 0 - all other c | ases. | | | | |
| OLD UNIQUE | E FEATURE | IDENTIFIE | ER (old_ufi) [c. | haracter; 10,10,C] UFI ເ | used for this feature in |
| GEODATA T | OPO-250K | Series 1.x. | Null for new fe | eatures (see Section 3 o | chapter 5.15). |
| General Note | 26 | | | | |
| Ocheral Not | | | | | |
| | | | | | |
| GEODATA | | | | | |
| | | | | | |
| Мар | | | | | |
| Ινιαμ | | | | | |
| | | | | | |
| Doto rulos | | | | | |

Offshore lines will bound Foreshore flat, Offshore void and Reef features.

Offshore lines will be coincident with waterlines bounding the sea, estuarine lakes or estuarine

watercourse areas where the area enclosed by the Offshore line abuts the features and falls within 50 metres at 1:250 000 and 20 metres at 1:100 000 of that Waterline feature.

Related features

Built-up area line, Foreshore flat, Offshore void, Reef and Waterline

Related chapters

Section 3 chapter 5.11.2

OFFSHORE ROCK

A rock located offshore that represents a hazard to shipping.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) |
|--------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000 Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | rock_offshor | |
| Coverage (see Section 3 chapter 4) | n | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Offshore rock's name.

RELATIONSHIP (relationship) [Integer; 1,1,I] Code for relationship to sea level;

- 4 Bare
- 5 Tidal
- 6 Submerged

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

980 - Submerged 98 – Bare or Tidal

0 - when in close proximity to a lighthouse or unavoidably clashes with text.

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

When larger than 390625 sq. m at 1:250 000 or 62 500 sq. m at 1:100 000 and has a RELATIONSHIP Code of 5, the Reef feature will be used.

GEODATA

Where a Lighthouse and an Offshore rock are shown on the base material/digital data or revision source material to be coincident, one of the two features will be displaced by a maximum of 10 metres in any direction so both can be included in the data.

Map

Offshore rocks may be symbolised as non printing (Symbol Number 0) where they unavoidably clash with text.

Where a lighthouse and an offshore rock are in close proximity, the lighthouse symbol will be given precedence (the offshore rock will have a symbol number of 0) but the name of the offshore rock will take precedence over the lighthouse name.

Data rules

Offshore rocks must appear in the Sea, Reefs, Foreshore flats or Offshore voids.

Related features

Lighthouse and Reef

Related chapters

Section 3 chapter 3.2.4

OFFSHORE VOID

A void in an offshore polygon

| Min | imum Siz | e for Inclus | ion | | | | Scales | | Feature Usage |
|---|-------------|-------------------------------|---------------|--------|------------|---------|----------------|-------------|----------------------------------|
| I | Dimens | | Area (| (sa m) |) | 1 | 1:250 | 000 | GEODATA |
| | | | | (, | , | | & | | |
| | Length | Height | 100K | 250 | 0K | | 1:100 | 000 | |
| L | | | | | | | | | |
| _ | | | | | | | | | |
| Spa | tial objec | t | | | | | | | |
| | Represent | ation | | F | Polygon | | | | |
| | Planimetri | c Accuracy | | 9 | 9999 / 99 | 99 | | | |
| | Feature co | ode | | С | offshor_v | oid | | | |
| | Coverage | (see Sectio | n 3 chapter | 4) c |) | | | | |
| | | | | | | | | | |
| Dat | a Attribut | es | | | | | | | |
| <u>GE</u> | ODATA ar | nd working d | latabase | | | | | | |
| DA- | ΓΑ Ωυαι Ι΄ | TY POINTE | R (a info) [a | charac | cter: 8.8 | C1 Poin | ter to attrib | ute and fe | eature reliability (see |
| Sec | tion 1 cha | pter 3.5 and | | | | 01.0 | itor to attrib | ato ana re | January (555 |
| <tile< td=""><td>e-id>5</td><td></td><td></td><td></td><th></th><td></td><td></td><td></td><td></td></tile<> | e-id>5 | | | | | | | | |
| | | TURE IDEN pter 3.4 and | | | | 0,10,C] | Alphanum | eric featui | re identifier (see |
| <u>Wo</u> | rking datal | base onl <u>y</u> | | | | | | | |
| | | nbol) [binar] er applicabl | | | | | | | |
| | | FEATURE DPO-250K S | | | | | | | for this feature in er 5.15). |
| Ger | neral Note | | | | | | | | |
| | iciai iiote | | | | | | | | |
| GF | ODATA | | | | | | | | |
| | DAIA | | | | | | | | |
| Mar | <u> </u> | | | | | | | | |
| | | | | | | | | | |
| Dat | a rules | | | | | | | | |
| _ | | s will be bou | ınded by an | offsh | nore line. | | | | |
| | | , | | | | | | | |

Mainland, Offshore line and Tile edge

Related features

Related chapters

Section 1 chapter 3.8.2

OPEN CUT/MINING AREA

An excavation made by the removal of stone, gravel, clay or mineral from the ground for commercial or industrial purposes and tailings dumps from mining operations.

Minimum Size for Inclusion

| Dimen | sions | Area (| (sq m) |
|--------|---------------|--------|--------|
| Length | Length Height | | 250K |
| | | | 140625 |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon |
|------------------------------------|-------------|
| Planimetric Accuracy | 9999 / 9999 |
| Feature code | open_cut |
| Coverage (see Section 3 chapter 4) | q |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The Mine's name

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 102

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

New features smaller than the minimum size for inclusion will be represented as Mines. (see Mines).

GEODATA

Open cut/mining area paracentroids will be cloned as mines except where they relate to tailings dumps not adjacent to a mine or where a mine feature already exists.

Мар

Open cut/mining areas are NOT to be labelled with descriptive text indicating the mineral which is extracted.

Tailings dumps not adjacent to a mine will be labelled 'tailings'.

Abandoned mines will be labelled 'abandoned'.

A descriptive note may be included where its known function is expanded beyond that of the strict definition an open cut mine, and where it would provide additional meaningful detail to the map. A descriptive note of "mine" is not to be used.

Data rules

Open cut/Mining areas will be bounded by a Relief area line symbol.

The following cannot overlap or appear inside Open Cut/Mining areas; Aeronautical points, Aeronautical area, Built-up areas, Contours other than of type connector standard, Watercourses, Spot elevations, Sea, any waterbody coverage feature, any vegetation coverage feature or any other relief area polygon.

Related features

Mine, Relief area line, Settling ponds and Tile edge

Related chapters

Section 3 chapters 3.2.4 and 5.11.1

ORCHARD OR VINEYARD

An area covered by an orderly planting of trees, vines or bushes which yield fruits, nuts or other edible products.

Minimum Size for Inclusion

| Dimen | sions | Area (sq m) | | |
|--------|---------------|-------------|--------|--|
| Length | Length Height | | 250K | |
| | | | 390625 | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Мар

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | orchard | |
| Coverage (see Section 3 chapter 4) | t | |

Data Attributes

GEODATA and working database

PLANTING TYPE (type) [integer;1,1,1] Type for horticultural planting and/or product.

- 3 Vineyard
- 4 Coffee
- 5 Bananas
- 6 Tree Nuts
- 7 Other Orchard type (unspecified).

DATA QUALITY POINTER (q info) [character; 8.8.C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

GEODATA

Map

At 1:100 000 orchards are to have an accompanying descriptive note e.g. 'bananas',' tree nuts',' vineyard', etc if the horticultural type/product is known.

Data rules

Orchard or vineyards will be bounded by a Vegetation line feature.

The following cannot overlap Orchard or vineyard areas;

Aircraft facility polygons, Airport area, Built-up areas, Building areas, Sea, Offshore coverage features (except Offshore void), Reservoirs, Lakes, Canal areas, Watercourse areas, Mangrove Flats, Salt evaporators, Settling ponds, Open cut, Sand, Sand dunes or other vegetation coverage polygons.

Related features

Woody vegetation, Plantation, Tile edge and Vegetation line

Related chapters

PARK

An area of land developed for recreational purposes.

Minimum Size for Inclusion

| Dimens | sions | Area (| sq m) |
|---------------|-------|--------|--------|
| Length Height | | 100K | 250K |
| | | | 140625 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | park | |
| Coverage (see Section 3 chapter 4) | b | |
| | | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The park's name

PARK CODE (park) [integer; 2,2,I] Code for type of park;

- 1 Gardens
- 2 Recreation area
- 3 Golf course
- 4 Racecourse
- 5 Oval
- 6 Multiple use
- 7 Civic square
- 8 Showground
- 9 Rifle range
- 10 Other

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 24

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Parks such as ovals shown on the latest previous edition map as a Landmark point symbol will not be shown unless they meet the size criteria for Parks.

Parks will usually occur surrounded by built-up areas. They may also be isolated polygons outside the built up area.

Parks should not be confused with the Reserve - Nature Conservation feature.

Parks may overlap waterbody polygons. Waterbodies fully included in parks will be considered part of the park. These waterbodies will also be shown in the waterbodies layer.

Where different types of park adjoin one another, each area which meets or exceeds the minimum size for inclusion will be shown as a separate polygon and attributed accordingly. Adjoining areas too small to show separately but which together create an area at or above the minimum size will be shown as a single polygon.

GEODATA

Map

Parks will be named where they are considered to be nationally cultural or historically significant. E.g. Melbourne Botanical Gardens, Taronga Zoo.

Parks are to have an accompanying descriptive note eg 'golf course', 'showgrounds' unless the words 'golf course', 'showgrounds' etc are included in the name. 'Multiple use' and 'other' will not be used as descriptive labels.

In areas where there are a number of parks and other detail the labels may be dropped to avoid clutter. In such cases preference will be given to showing labels on the following types of park in descending order.

rifle range showground racecourse golf course oval

All other categories

Data rules

Parks will be bounded by a Built-up area line feature.

Parks cannot overlap;

Sea, Aeronautical areas and other built-up area coverage polygons.

Related features

Built-up area line, Reserve - Nature Conservation and Tile edge

Related chapters

Section 1 chapter 3.8.9

PINNACLE

A tall, slender spire shaped rock; projecting from a level or gently sloping surface, or the top of a mountain.

Minimum Size for Inclusion

| | Dimensions | | Area (sq m) | | |
|--|---------------|--|-------------|------|--|
| | Length Height | | 100K | 250K | |
| | | | | | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | pinnacle | |
| Coverage (see Section 3 chapter 4) | m | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The pinnacle's name

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 84

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

All feature occurrences on in the base material/digital data will be retained unless there is clear evidence they no longer exist.

If the elevation of the top of the Pinnacle is known it will be cloned as a Spot elevation..

GEODATA

Map

Pinnacles will be named where known.

Where a pinnacle is coincident with a spot elevation feature the elevation of the spot elevation will be shown on the map.

Data rules

Pinnacles cannot appear in the following;

Sea, Lakes, Reservoirs, Canal areas, Watercourse areas, Building areas and Aircraft facilities.

Related features

Spot elevation

Related chapters

Section 3 chapter 5.11.1

PIPELINE

A pipe used for carrying gases and/or liquids.

Minimum Size for Inclusion

| | Dimensions | | Area (sq m) | | |
|--|---------------|--|-------------|------|--|
| | Length Height | | 100K | 250K | |
| | | | | | |

Scales

1:250 000 & 1:100 000 Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | pipeline | |
| Coverage (see Section 3 chapter 4) | р | |

Data Attributes

GEODATA and working database

PRODUCT CODE (product) [integer; 1.1,I] Code for the liquid or gas transported by the pipe;

- 1 Water
- 2 Gas
- 3 Oil
- 4 Gas and Oil
- 5 Other
- 6 Unknown

RELATIONSHIP (relationship) [integer; 1,1,I] code for the relationship of the feature to ground level

- 1 Elevated
- 2 Above ground
- 3 Underground

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The pipeline's name

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

281 - Above ground/Elevated Pipelines whose product is not water

282 - Underground Pipelines whose product is not water

947 - Water Pipelines

0 - Pipeline running too close to another pipeline to be shown or pipeline within or bounding a Builtup Area or areas nested within Built-up area

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences. Submerged pipelines will not be shown.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. However, submerged pipelines will not be shown.

When a new undersized length of water pipeline exists between two canals which meet their selection criterion, then the section of water pipeline should be represented as a canal feature, accepting the attributes of its adjoining canals.

Only Pipelines included in the revision source material for pipelines will be added. Two or more pipelines running closer that 1mm to scale, parallel to each other and carrying the same substance will be shown as a single feature.

Small pipelines serving individual homesteads or farmhouses will not be shown.

If base material/digital data and revision source material does not provide information on oil or gas pipeline relationships to ground level, then they should be attributed as Underground. However, if base material/digital data and revision source material does not provide information on water pipeline relationships to ground level, then this information be sought via an Action Request to Geoscience Australia.

GEODATA

Map

Pipelines are to have an accompanying descriptive note eg 'pipeline', 'gas pipeline', unless the word 'pipeline' is included in the name. Underground pipelines will be labelled with a descriptive note, 'underground'.

Two or more pipelines running closer that 1mm to scale, parallel to each other and carrying the different substances will be symbolised as a single line. In this case one or more of the pipelines will have a symbol number 0 and the descriptive note will describe both substances, for example 'gas and oil pipelines'.

Pipelines in or bounding a Built-up Area and areas nested in Built-up areas will not be symbolised, they will be allocated symbol '0' (non-printing).

Pipelines will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

Where the pipeline meets the edge of a Built-up area polygon boundary it will be snapped to either a node or vertice on that boundary.

Where one pipeline crosses another a node will be shown at the intersection point. ie. the arcs will be split.

Related features

Related chapters

Section 3 chapter 5.11.3

| Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters |
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PLANTATION

Intensively managed stands of trees of either native or exotic species, created by the regular placement of seedlings or seeds.

Minimum Size for Inclusion

| Dimen | Dimensions | | sq m) | |
|--------|---------------|--|--------|--|
| Length | Length Height | | 250K | |
| | | | 390625 | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | plantation | |
| Coverage (see Section 3 chapter 4) | t | |
| | | |

Data Attributes

GEODATA and working database

PLANTING TYPE (type) [integer;1,1,I] Code for the type of plantation wood product planted and/or produced.

- 1 Softwood (e.g. pine plantation)
- 2 Hardwood (e.g. eucalyptus)

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

Polygons (250K only)

6

Polygons (100K only)

6 - Softwood

600 - Hardwood

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

GEODATA

Map

Data rules

Plantations will be bounded by a Vegetation line feature.

Plantations cannot overlap;

Open cut, Sand, Sand dunes, other Vegetation types, Lakes, Reservoirs, Canal areas, Watercourse areas, Building areas, Built-up areas, Aircraft facility polygons, Airport areas, Sea, Mangrove Flats, Salt evaporators and Settling ponds.

Related features

Woody vegetation, Orchard or vineyard, Tile edge and Vegetation line

Related chapters

POWERLINE

Wire or wires supported on poles, towers or pylons, used for the transmission of high voltage electricity.

Minimum Size for Inclusion

| | Dimens | ions | Area (| sq m) |
|---|---------------|------|--------|-------|
| | Length Height | | 100K | 250K |
| ٠ | | | | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | powerline | |
| Coverage (see Section 3 chapter 4) | k | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 541 (250K only) 542 (100K only) 0 non printing line

General Notes

At 1:100 000 only powerlines included in the supplied revision source materials for powerlines will be shown.

At 1:250 000 only powerlines included in the supplied revision source materials for powerlines with a rated capacity of 110kv or greater will be shown.

Several powerlines running closer than 1 mm to scale and parallel to each other will be shown as one line.

Cartographic generalisation should take into account the width of the powerline symbol. It is acceptable for Powerline pylon symbols to overprint linear features such as roads.

GEODATA

Мар

Powerlines in or bounding Built-up Area and areas nested in Built-up areas will not be symbolised, they will be allocated symbol '0' (non-printing).

Powerlines will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Powerlines sourced from the electricity (ele) database with the words 'position approximate' indicated in the 'data supplier assessment column' will be labelled with a descriptive note *position* approximate where practical.

Data rules

Where the powerline meets the Built-up Area it will be snapped to either a node or vertice on that feature.

Where one powerline crosses another a node will be shown at their intersection point. ie. the arcs will be split.

Related features

Powerline pylon symbol

Related chapters

Section 3 chapters 3.2.4 and 5.11.3

POWERLINE PYLON SYMBOL

A cartographic feature to complete powerline symbology.

| Minimum Size for Inclusion | | | Scales | Feature Usage | |
|----------------------------|--------|------|--------|---------------|-----|
| Dimen | sions | Area | (sq m) | 1:250 000 | Мар |
| Length | Height | 100K | 250K | | |
| | | | | | |

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 9999 / - | |
| Feature code | pylon | |
| Coverage (see Section 3 chapter 4) | 5 | |

Data Attributes

GEODATA and working database

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 540

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 180

General Notes

The placement of Powerline pylon symbols is for cartographic purposes only and does not match real world entities.

GEODATA

Map

The Powerline pylon symbol should be oriented such that it does not appear 'upside down' when viewed from the southern neatline.

Powerline pylon symbols will be placed a minimum of 20 mm and a maximum of 30 mm apart along Powerlines. Powerline pylon symbols will be placed to avoid clashes with other map detail. Powerline pylon symbols will be regularly spaced along powerlines where this can be achieved without clashing with other detail.

Powerline pylon symbols will be aligned so that the long axis of the symbol is perpendicular with the Powerline.

Data rules

Powerline pylon symbols must fall exactly on the underlying Powerline feature. If necessary a vertice will be added to ensure the Powerline and the Powerline pylon symbol are coincident with one another.

Related features

Powerline

Related chapters

Section 3 chapter 5.9 and 5.11.2

PROHIBITED AREA

Area into which entry is prohibited without permission from the controlling authority.

Minimum Size for Inclusion

| Dimensions | | Area (| (sq m) |
|---------------|--|--------|---------|
| Length Height | | 100K | 250K |
| | | 500000 | 3125000 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | proh_a | |
| Coverage (see Section 3 chapter 4) | 1 | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.4)

AUTHORITY CODE (authority) [Integer; 4,4,1] Code for identifying controlling authority

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

At 1:250 000 all prohibited areas should be fully revised using the NPIL database clip supplied. All features in the NPIL database meeting the size and other selection criteria will be included in the new database. The only exceptions to this rule are those prohibited areas in the base Series 2 data with an authority code of 9999 or 0 which do not have an equilivant feature in NPIL as well as any additional features which may appear on the source map (when the source map is not the previous edition NTMS). These features should be reviewed against the project file and if no instruction has been supplied the producer should seek clarification from Geoscience Australia on how and/or if these features should be represented in the revised database.

At 1:100 000 size and other selection criteria apply to all feature occurrences. All features in the NPIL database clip supplied will be included which meet the selection criteria. Feature occurrences on the latest previous edition map or in base material/digital data (e.g. state mapping databases) meeting the selection criteria but which do not have an equilivant feature in the NPIL database should be reviewed against the project file. If a feature is not addressed in the project file the

producer should seek clarification from Geoscience Australia on how and/or if the feature should be represented in the revised database.

The Authority code for prohibited areas should not be populated with a value of 0. All prohibited areas obtained from miscellaneous sources (e.g. previous edition map or special instruction) whose authority is not known should have an authority value of 9999 (other not specified).

Prohibited areas will be named if names are included in the supplied material.

GEODATA

Map

Prohibited areas are to have an accompanying note 'prohibited area' unless the words 'prohibited area' are included in the name. Type style for this note will be that specified for 'notes for areas restricted access' Section 2 chapter 6.1. Where the reserve is identified by a number, only the reserve type will be shown.

Data rules

Prohibited areas will be bounded by a Prohibited area line.

Prohibited areas cannot overlap other Security area polygons.

Related features

Prohibited area line and Tile edge

Related chapters

Section 3 chapters 3.2.4 and 5.17

PROHIBITED AREA LINE

The boundary of a prohibited area or prohibited area void polygon.

Minimum Size for Inclusion

| Dimens | Dimensions | | (sq m) |
|---------------|------------|------|--------|
| Length Height | | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | proh_a_l | |
| Coverage (see Section 3 chapter 4) | 1 | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 64 Single boundary 641 Dual boundary

0 Boundary coincident with coastline

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Offset from coincident features in millimetres The offset will move the feature to the left when viewed from start node to end node.

TEXT NOTE (text_note) [character; 50,50,C] Descriptive note to appear on map

General Notes

Where different Reserves are separated by a linear feature such as a road two Reserve lines will be shown each at greater than 50 metres at 1:250 00 and 20 metres at 1:100 000 from the feature separating the reserves. Road reserves will not be shown through Prohibited areas.

GEODATA

Map

When a Prohibited area line of symbol number 64 follows linear features symbolised in red, reflex blue or black the Reserve line will be offset from the other feature. The FEATURE WIDTH value will be such that there will be a gap of 0.15 mm between the respective symbols. For example, where a

Reserve line is coincident with a principal Road the FEATURE WIDTH value will be 0.75 (0.15 plus half the width of the principal road symbol (0.45) plus half the width of the Prohibited area line's symbol (0.15)).

The Prohibited area line symbol will not be offset from Reserve line symbols if they are not also coincident with another symbolised linear feature.

Area symbols will be masked for the Prohibited area line verge.

Boundaries of prohibited areas formed by, and coincident with, the coastline will not be shown. (See Section 2 chapter 5.8.)

At 1:100 000 a descriptive note may be added on the map where a prohibited area boundary is not displayed because it follows the coastline, for example 'prohibited area boundary follows coastline'.

Data rules

Prohibited area lines will bound Prohibited areas and Prohibited area voids.

Prohibited area lines of symbol number 64 will be digitised such that the reserve is on the left going from start node to end node.

Where the Prohibited area line has a similar shape to another feature, such as a Road, Reserve line, Watercourse, Waterline or Railway, and is within 50 metres at 1:250 000 and 20 metres at 1:100 000 of the feature, then the relevant section of Prohibited area line will be coincident with this other feature. Where the lines are of similar shape but the distance separating them is greater than 50 metres at 1:250 000 and 20 metres at 1: 100 000 the prohibited area line will be made coincident with the feature if it appears the Prohibited area line should be following the feature, for example where the boundary is following a stream line.

Related features

Built-up area line, Prohibited area, Prohibited area void, Railway, Road Watercourse, and Waterline

Related chapters

Section 2 chapters 2.9 and 5.8 Section 3 chapters 5.7, 5.8, 5.11.2, and 5.17

PROHIBITED AREA VOID

A void in a prohibited area.

| Minimum Si | ze for Inclus | sion | | | Scales | | Feature Usage |
|--|---|-------------|--------|-------|------------------|--------------|---------------------|
| Dimen | sions | Area (| (sq m) | | 1:250 000 & |) | GEODATA & Map |
| Length | Height | 100K | 250K | | 1:100 000 |) | Ινιαρ |
| | | 62500 | 390625 | | | | |
| | 1 | | | | | | |
| Spatial obje | ct | | | | | | |
| Represer | ntation | | Polygo | n | | | |
| Planimet | ric Accuracy | | 9999 / | 9999 | | | |
| Feature of | | | proh_a | _void | | | |
| Coverage | e (see Sectio | n 3 chapter | 4) 1 | | | | |
| Data Attailea | 1 | | | | | | |
| Data Attribu | | latabase | | | | | |
| | - | | | | | | |
| DATA QUAL Section 1 cha <tile-id>2</tile-id> | | | | | ter to attribute | and featu | re reliability (see |
| UNIQUE FEA | | | | | Alphanumerio | c feature id | dentifier (see |
| Working database only | | | | | | | |
| | SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: | | | | | | |
| 0 | ост аррпоавт | <i>o.</i> | | | | | |
| General Not | es | | | | | | |
| | | | | | | | |
| GEODATA | | | | | | | |
| | | | | | | | |
| Мар | | | | | | | |
| | | | | | | | |
| Data rules | Data rules | | | | | | |

Related features

Prohibited area line and Tile edge

Prohibited area voids will be bounded by a Prohibited area line.

Prohibited area voids cannot overlap other Security area polygons.

Related chapters

Section 1 chapter 3.8.2

RAILWAY

A transportation system using one or more rails to carry freight or passengers.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|---------------|--|--------|-------|
| Length Height | | 100K | 250K |
| 5 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain |
|------------------------------------|----------|
| Planimetric Accuracy | 100 / 40 |
| Feature code | railway |
| Coverage (see Section 3 chapter 4) | r |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the railway line

TRACKS (tracks) [integer; 1,1,I] Code for number of tracks;

- 1 One
- 2 Multiple
- 3 Unknown

STATUS (status) [integer; 1,1,I] Code for operational status;

- 1 Operational
- 2 Abandoned
- 3 Under Construction

GAUGE (gauge) [integer; 1,1,I] Code for gauge

- 0 Not applicable
- 1 Standard: 1435 mm
- 2 Broad: 1600 mm
- 3 Narrow: 1067 mm
- 4 Other
- 5 Unknown
- 6 standard-broad
- 7 standard-narrow

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable: 206 Single

210 Multiple

208 Light

209 Abandoned

0 Railway coincident with jetty

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences. Dismantled railways, including those on the latest previous edition map or base data/material will not be shown.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Dismantled railways, including those on the latest previous edition map or base data/material will not be shown.

All railways and permanent sections of light railways will be shown. Short lengths of light railways in position only during the seasonal harvesting of crops will be omitted.

Light railways are lightly constructed railways or tramways used for special purposes, for example scenic railways.

Where railways exist upon a jetty they must be coincident for the length of the railway.

GEODATA

Map

All railways, including sidings and marshalling yards should be shown to scale if greater than the minimum size criteria.

Where scale limits the depiction of all tracks, show only those that depict a general representative pattern.

Railways will be labelled with their name. Railway lines will be labelled with their appropriate gauge width (eg. gauge 1435mm) where known. Abandoned railways will be labelled 'abandoned'.

Railways will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

Nodes will appear at all Railway intersections.

Railways cannot overlap Canal areas, Perennial lakes, Perennial watercourse areas, Reservoirs or Sea except when coincident with a Jetty.

Railways cannot intersect Cliff, Cutting and Embankment lines.

Related features

Ferry route, Prohibited area line, Railway bridge, Railway causeway, Railway station, Railway tunnel, Reserve line and Transition point

Related chapters

Section 1 chapter 3.8.6 Section 2 chapter 2.2.3 Section 3 chapter 5.11.2

RAILWAY BRIDGE

A structure erected over a depression or obstacle to carry rail traffic.

Minimum Size for Inclusion

| Dimen | Dimensions | | (sq m) | |
|---------------|------------|------|--------|---|
| Length Height | | 100K | 250K | _ |
| | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point |
|------------------------------------|---------|
| Planimetric Accuracy | 100 / 4 |
| Feature code | bridge_ |
| Coverage (see Section 3 chapter 4) | r |

| Point | Chain |
|-------------|-------------|
| 100 / 40 | 100 / 40 |
| bridge_rl_p | bridge_rl_l |
| r | r |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the railway line

TRACKS (tracks) [integer; 1,1,I] Code for number of tracks;

- 1 One
- 2 Multiple
- 3 Unknown

STATUS (status) [integer; 1,1,I] Code for operational status;

- 1 Operational
- 2 Abandoned
- 3 Under Construction

GAUGE (gauge) [integer; 1,1,I] Code for gauge

- 0 Not applicable
- 1 Standard: 1435 mm
- 2 Broad: 1600 mm
- 3 Narrow: 1067 mm
- 4 Other
- 5 Unknown
- 6 standard-broad
- 7 standard-narrow

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 260 - (Point and line)

0 - Coincident road and rail bridge

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Width of symbol in millimetres 0.15 for bridge on light railway 0.25 for bridge on other railways

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360 Attribute for point only.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Only significant bridges will be shown. The significance of the bridge depends on the number of bridges in the vicinity, the importance of the road etc. As guidance, the selection from the latest previous edition map will be taken and a similar approach applied to any new bridges.

Bridges will be shown as points when they are shorter than .4 mm to scale. When the length is longer than .4 mm to scale, bridges will be shown as chains.

The railway line for which the bridge was made need no longer exist, however, to be shown the bridge must still exist.

The name attribute will be populated with the name of the Railway line to which the bridge relates.

GEODATA

Map

Bridges of distinctive construction may be labelled (e.g 'drawbridge', 'swing bridge').

Data rules

Bridges which carry both road and rail traffic will be held as coincident road bridge and railway bridge features in their respective layers.

Point Railway bridges must fall exactly over a node on the Railway feature.

Linear Railway bridges will replace the equivalent section of the Railway and must meet exactly on the node at each end of the Railway feature.

Railway bridges may be shown off the rail network if they are on a dismantled railway.

Related features

Railway and Road bridge

Related chapters

Section 3 chapters 5.8, 5.9 and 5.11.2

RAILWAY CAUSEWAY

An embankment of earth or masonry erected across open water or area subject to inundation and carrying a railway.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|---------------|--|--------|-------|
| Length Height | | 100K | 250K |
| 2 mm | | | |

Scales

| _ | | |
|---|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

Feature Usage

GEODATA & Мар

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | causeway_rl | |
| Coverage (see Section 3 chapter 4) | r | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the railway line

TRACKS (tracks) [integer; 1,1,I] Code for number of tracks;

- 1 One
- 2 Multiple
- 3 Unknown

STATUS (status) [integer; 1,1,I] Code for operational status;

- 1 Operational2 Abandoned
- 3 Under Construction

GAUGE (gauge) [integer; 1,1,I] Code for gauge

- 0 Not applicable 1 - Standard: 1435 mm 2 - Broad: 1600 mm
- 3 Narrow: 1067 mm
- 4 Other
- 5 Unknown
- 6 standard-broad
- 7 standard-narrow

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

245 - Rail only

0 - Coincident road and rail causeway

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Width of symbol in millimetres 0.15 - on light railway 0.25 – on other railways

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

The railway line for which the causeway was made need no longer exist, however, to be shown the causeway must still exist.

Causeways which carry both road and rail traffic will be held as coincident road causeway and railway causeway features in their respective layers.

The name attribute will be populated with the name of the Railway line to which the causeway relates.

GEODATA

Map

Railway causeways will be labelled 'causeway'.

Data rules

Railway causeways will replace the equivalent length section of the Railway and must meet exactly on the node at each end of the Railway feature.

Railway causeways may be shown off the rail network if they are on a dismantled railway.

Related features

Railway and Road Causeway

Related chapters

Section 3 chapter 5.8 and 5.11.2

RAILWAY OVERPASS

A separation of surface levels constructed to prevent direct intersection with other rail or road networks.

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K 40 Feature Usage GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | - / 40 | |
| Feature code | overpass_rl | |
| Coverage (see Section 3 chapter 4) | r | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the railway line

TRACKS (tracks) [integer; 1,1,I] Code for number of tracks;

- 1 One
- 2 Multiple
- 3 Unknown

STATUS (status) [integer; 1,1,I] Code for operational status;

- 1 Operational
- 2 Abandoned
- 3 Under Construction

GAUGE (gauge) [integer; 1,1,I] Code for gauge

- 0 Not applicable
- 1 Standard: 1435 mm
- 2 Broad: 1600 mm
- 3 Narrow: 1067 mm
- 4 Other
- 5 Unknown
- 6 standard-broad
- 7 standard-narrow

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

266

0 - Coincident road overpass

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Width of symbol in millimetres 0.15 for overpass on light railway 0.25 for overpass on other railways

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Only significant overpasses will be shown. The significance of the overpass depends on the number of overpasses in the vicinity, the importance of the road etc. As guidance, the selection from the latest previous edition map (if supplied) will be taken and a similar approach applied to any new overpasses.

The name attribute will be populated with the name of the Railway line to which the overpass relates.

| GEODATA | | | |
|---------|--|--|--|
| | | | |
| | | | |

Data rules

Map

Overpasses which carry both road and rail traffic will be held as coincident road overpass and railway overpass features in their respective layers.

Linear Railway overpasses will replace the equivalent section of the Railway and must meet exactly on the node at each end of the Railway feature.

Railway overpasses may be shown off the rail network if they are on a dismantled railway.

Related features

Railway and Road bridge, Road Overpass, Road and Rail Causeway

Related chapters

Section 3 chapters 5.8, 5.9 and 5.11.2

RAILWAY STATION

A recognised stopping place for trains where passengers may board or alight or freight be loaded or unloaded. There may or may not be a platform. The railway station may not be in use.

| Minimum Siz | e for Inclus | sion | | Scales | Feature Usage |
|-------------|--------------|------|--------|-------------|---------------|
| Dimens | sions | Area | (sq m) | 1:250 000 & | GEODATA & Map |
| Length | Height | 100K | 250K | 1:100 000 | |
| | | | | | |

Spatial object

| Representation | Point | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | rail_station | |
| Coverage (see Section 3 chapter 4) | r | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the railway station

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 222

0 - when situated on a underground railway

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

All railway stations on operational and abandoned lines will be shown, including disused railway stations. An exception will be former railway stations where there is clear evidence that the buildings and associated structures no longer exist.

Former railway stations on dismantled railway lines will not be shown as railway stations. Their names will be depicted as Localities (place name) if the same name is not in use for another Locality place name, Locality populated place or Built-up area feature. Unless there is clear evidence they no longer exist, the buildings of former railway stations on dismantled railway lines will be shown as Building features

GEODATA

Map

Type for Railway stations which are cloned as localities (see Data rules) will be as specified for Railway stations and not Locality place names.

Abandoned railway stations on operational lines will be labelled '(abandoned)' outside Builtup Areas. Abandoned Railway stations on abandoned lines will not be so labelled.

Railway stations on underground lines will not be symbolised (e.g symbol = 0 non printing).

1:100 000: all railway stations will be named unless station is not symbolised.

1:250 000: railway stations within Built-up areas will only be named where space permits, all other railway stations will be named unless station is not symbolised.

Data rules

Railway stations will be coincident with a node on a railway line.

A Railway Station situated on a Jetty must be coincident with a vertex on both the Jetty and its associated Railway Line.

Railway stations will be cloned as a Locality place name if the same name is not in use for another Locality feature coded Place name or Populated place.

Related features

Locality (place name) and Railway

Related chapters

Section 3 chapters 5.11.1 and 5.11.2

RAILWAY TUNNEL

An artificial underground or underwater passage carrying a railway.

Minimum Size for Inclusion

| Dimen | sions | Area | (sq m) | |
|---------------|-------|------|--------|--|
| Length Height | | 100K | 250K | |
| | | | | |

Scales

1:250 000 1:100 000

Feature Usage

GEODATA & Мар

Spatial object

| Representation |
|------------------------------------|
| Planimetric Accuracy |
| Feature code |
| Coverage (see Section 3 chapter 4) |
| |

| Point | Chain |
|-------------|-------------|
| 100 / 40 | 100 / 40 |
| tunnel_rl_p | tunnel_rl_l |
| r | r |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of the railway line

TRACKS (tracks) [integer; 1,1,I] Code for number of tracks;

- 1 One
- 2 Multiple
- 3 Unknown

STATUS (status) [integer; 1,1,I] Code for operational status;

- 1 Operational
- 2 Abandoned
- 3 Under Construction

GAUGE (gauge) [integer; 1,1,I] Code for gauge

- 0 Not applicable 1 - Standard: 1435 mm 2 - Broad: 1600 mm
- 3 Narrow: 1067 mm
- 4 Other
- 5 Unknown
- 6 standard-broad
- 7 standard-narrow

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

205 - Line 0 - Point

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

Attribute for point only.

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0 Attribute for point only.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Railway tunnels will be shown as points when they are shorter than 1 mm to scale. When the length is longer than 1 mm to scale, tunnels will be shown as chains.

Tunnels which carry both road and railway traffic will be held as a coincident road tunnel and railway tunnel feature in their respective layers.

GEODATA

Map

Railway tunnels may be named.

Data rules

The points of disappearance and emergence of Railway tunnel features will be shown by the feature Transition point.

Point Railway tunnels will be coincident with a node on a railway line.

Linear Railway tunnels will replace the equivalent section of the Railway and must meet exactly on the node at each end of the Railway feature.

Railway tunnels may be shown off the rail network if they are on a dismantled railway.

Related features

Railway, Road tunnel and Transition point

Related chapters

Section 3 chapter 5.11.2

RAINFOREST

Vegetation community which contains key rainforest species, with a foliage cover greater than 70%

Minimum Size for Inclusion

| Dimens | Dimensions | | sq m) |
|--------|------------|-------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | rainforest | |
| Coverage (see Section 3 chapter 4) | t | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

4

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representive polygon where they are less than 0.5 mm apart at map scale.

GEODATA

Map

Rainforest should be named where named on base material/digital data or rainforest revision source material. Type styles for named areas of rainforest will be those used for Vegetation features, see Section 2 chapter 8.4 (for 1:250 000) and 9.4 (for 1:100 000).

Data rules

Rainforest is bounded by a vegetation line feature.

Rainforest cannot overlap other vegetation type polygons.

Rainforest cannot overlap Open Cut, Building Area, Built-up area, Sand, Sand dunes, Aircraft facility polygons, Airport areas, Reservoirs, Settling ponds, Salt evaporators, Lakes, perennial Watercourse areas, Canal areas, Mangrove Flat or Sea.

Related features

Woody vegetation, Tile edge and Vegetation line.

Related chapters

RAPID

An area of broken, fast flowing water in a watercourse, where the slope of the bed increases (but without a prominent break of slope which might result in a waterfall), or where a gently dipping bar of harder rock outcrops.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | | |
|---------------------------------|--|--|
| Planimetric Accuracy | | |
| Feature code | | |
| Coverage (see Section 3 chapter | | |

| Chain | Polygon |
|----------|-------------|
| 100 / 40 | 9999 / 9999 |
| rapid_I | rapid_a |
| d | W |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of associated watercourse

PERENNIALITY (perennial) [integer; 1,1,I] Code for perenniality;

1 - Perennial

HIERARCHY (hierarchy) [integer; 1,1,I] Importance of associated watercourse

- 0 Not Applicable
- 1 Major
- 2 Minor

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>4 - feat_code "rapid_l" <tile-id>5 - feat_code "rapid_a"

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

881 (Chain - major watercourse chain)

882 (Chain – minor watercourse chain)

881 (Polygon - watercourse polygon perennial)

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Rapids are only to be shown in perennial streams.

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist or they are on a non-perennial stream.

Rapids in double line streams will be shown as area features.

GEODATA

Map

Rapids will be labelled 'rapid' if rapid is not included in the name.

Data rules

A rapid polygon will be bounded by a Rapid area line in water and by waterline on the river banks.

Rapid chains break Watercourse chains with coincident nodes with the Watercourses at both ends of the Rapid chain.

Rapids will be digitised with the start node at the upstream end.

Rapids cannot overlap;

Sea, or Building areas.

Related features

Connector, Rapid area line, Tile edge, Watercourse and Waterline

Related chapters

Section 3 chapter 5.7

RAPID AREA LINE

The boundary of a rapid area polygon.

| Minimum Siz | e for Inclus | sion | | Scales | | Feature Usage |
|----------------------|-------------------|-----------------|--------------|----------------------|--------------|------------------------|
| Dimens | sions | Area (sq | m) | 1:250 | 000 | GEODATA |
| Length | Height | 100K | 250K | 4 1:100 | 000 | |
| | | | | | | |
| Spatial object | •• | | | | | |
| Spatial Object | , L | | | | | |
| Represent | tation | | Chain | | | |
| Planimetri | c Accuracy | | 100 / 40 | | | |
| Feature co | ode | | rapid_a_l | | | |
| Coverage | (see Section | n 3 chapter 4) | W | | | |
| Data Attribut | es | | | | | |
| GEODATA ar | | latabase | | | | |
| | TV DOINTE | P (a info) [ch | aractor: 8 8 | C1 Pointer to attrib | oute and fea | ture reliability (see |
| | | ISection 3 cha | | C) Forther to attrib | ute and lea | iture reliability (see |
| <tile-id>4</tile-id> | | | | | | |
| UNIQUE FEA | TURE IDEN | NTIFIER (ufi) [| character; 1 | 0,10,C] Alphanum | eric feature | identifier (see |
| Section 1 cha | pter 3.4 and | Section 3 cha | apter 5.14) | | | |
| Working data | base onl <u>y</u> | | | | | |
| SYMBOL (syi | mbol) [binar | v: 4.5 Bl | | | | |
| Symbol numb | | | | | | |
| <u>oʻ</u> | | | | | | |
| General Note | s | | | | | |
| See Rapid | | | | | | |
| GEODATA | | | | | | |
| | | | | | | |
| Мар | | | | | | |
| | | | | | | |
| Data rules | | | | | | |
| Rapid area lin | es will boun | nd Rapid polyg | ons | | | |
| Related featu | ires | | | | | |
| Rapid | | | | | | |
| Related chap | iters | | | | | |
| | | | | | | |

RAZORBACK

A Long and Narrow upland with Steep Sides

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K 5 mm

| 1:100 000 | |
|-----------|--|

Caalaa

Feature Usage GEODATA & Map

Spatial object

| Representation | Chain |
|------------------------------------|-----------|
| Planimetric Accuracy | - / 40 |
| Feature code | razorback |
| Coverage (see Section 3 chapter 4) | m |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 929

J2.J

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Height of razorbacks are to be indicated by the use of spot elevations where available.

GEODATA

Map

Contour & Auxiliary Contours will be broken for razorbacks.

Razorbacks will be named where named on the latest previous edition map unless adjacent development means this would lead to clutter.

Razorback symbols will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

Razorbacks cannot appear in;

Sea, Lakes, Reservoirs, Building Area and Offshore Polygons.

Razorbacks cannot intersect Watercourse, Roads and Railways

Related features

Cliff, Contour

Related chapters

REEF

An area of rock or coral that is exposed between mean high water and lowest tide, or just below approximate lowest tide, which is visually prominent or a hazard to shipping.

Minimum Size for Inclusion

| [| Dimensions | | Area (sq m) | | |
|-----|------------|--------|-------------|--------|--|
| Ler | ngth | Height | 100K | 250K | |
| | | | 62500 | 390625 | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | reef | |
| Coverage (see Section 3 chapter 4) | 0 | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Reef's name

RELATIONSHIP (relationship) [Integer; 1,1,I] Code for relationship to sea level;

- 4 Bare
- 5 Tidal
- 6 Submerged

REEF CODE (reef)

[Integer; 1,1,I] Code for type of reef:

- 1 Reef, Cay
- 2 Shoal, Bank, Patch

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 97 for Reef and Cay 0 for Shoal, Bank, Patch

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

For new features when the area is smaller than the minimum size and REEF code would be 1 (Reef, Cay), the feature 'offshore rock' will be used.

GEODATA

Map

Reefs should be named, where name is known.

Descriptive notes may be included.

Data rules

Reefs cannot overlap other Offshore coverage polygons, Mainland or Islands.

Reef will be bounded by Offshore line features

Related features

Offshore line, Offshore rock, Spot elevation and Tile edge

Related chapters

Section 3 chapter 3.2.4

RELIEF AREA LINE

The line bounding a Crater, Distorted Surface, Open cut, Relief area void, Rocky outcrop, Sand or Sand dune polygon

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K

| Scales |
|-----------|
| 1:250 000 |
| & |
| 1.100 000 |

Feature Usage GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | rel_area_l | |
| Coverage (see Section 3 chapter 4) | q | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>1 - if surround "open cut" <tile-id>4 - if not surround "open cut"

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

Note: The Relief area line feature can bound various polygon types & will have its symbol number changed accordingly. The symbol numbers shown apply to Relief area lines bounding the following features.

Line Polygon area symbol; bounded; 90 Crater 90 Distorted Surface 102 Open cut 912 Rocky outcrops 0 Sand

0 Sand dunes

| General | Notes |
|---------|-------|
|---------|-------|

GEODATA

Мар

Where symbolised, relief area lines will be masked where black type unavoidably overprints the Feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Where the boundary of an area of Distorted Surface, Rocky Outcrops, Sand and Sand Dunes has a similar shape to another natural feature such as a cliff, the relevant section of Relief Area Line will be made coincident with this other feature.

Data rules

Relief area lines will bound Crater, Distorted Surface, Open cut, Relief area void, Rocky outcrop, Sand and Sand dune polygons.

Relief area lines cannot overlap;

Sea, Watercourse areas, Canal areas, Lakes and Reservoirs.

Related features

Crater, Distorted surface, Open cut/mining area, Relief area void, Rocky outcrop, Sand, Sand dune and Vegetation line

Related chapters

Section 3 chapter 5.11.2

RELIEF AREA VOID

An empty or void area in a Distorted Surface, Open cut, Rocky outcrop, Sand or Sand dune polygon.

Minimum Size for Inclusion Scales Feature Usage GEODATA 1:250 000 **Dimensions** Area (sq m) 1:100 000 100K Length Height 250K 10000 62500 **Spatial object** Polygon Representation 9999 / 9999 Planimetric Accuracy Feature code rel_a_void Coverage (see Section 3 chapter 4) **Data Attributes GEODATA** and working database DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5 UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14) Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: **General Notes GEODATA** Map **Data rules** Relief area voids will be bounded by a relief area line feature.

Related features

Relief area line and Tile edge

Relief area voids cannot overlap other Relief area coverage polygons.

Related chapters

Section 1 chapter 3.8.2

RESERVE - INDIGENOUS AREA

Land reserved due to its Indigenous significance, (excludes freehold land).

Minimum Size for Inclusion

| Dimen | Dimensions | | (sq m) |
|--------|------------|--------|---------|
| Length | Height | 100K | 250K |
| | | 500000 | 3125000 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | abor_res | |
| Coverage (see Section 3 chapter 4) | 3 | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Indigenous area's name

AUTHORITY CODE (authority) [Integer; 4,4,I] Code for identifying controlling authority

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

Reserve - Indigenous areas included in the NPIL data base and meeting the size criteria will be shown. Where a Reserve-Indigenous Area is broken into a number of areas each area will be shown regardless of size if the total area of the reserve meets the size criteria.

The Authority code for reserve areas should not be populated with a value of 0. All reserves whose authority is not known or whose authority does not fit within the current categories specified in section 3 5.17 NPIL database, should have a authority value of 9999 (other not specified).

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Map

Reserve - Indigenous areas will be named.

Data rules

Reserve - Indigenous areas will be bounded by a reserve line feature.

Reserve - Indigenous areas cannot overlap other reserved areas coverage polygons ie. two differing reserve types cannot share a common polygon area.

Related features

Reserve line and Tile edge

Related chapters

Section 3 chapters 3.2.4 and 5.17

RESERVE - FORESTRY

Public land reserved for forestry purposes.

Minimum Size for Inclusion

| Dimer | Dimensions | | (sq m) |
|--------|------------|--------|---------|
| Length | Height | 100K | 250K |
| | | 500000 | 3125000 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | forest_res | |
| Coverage (see Section 3 chapter 4) | 3 | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Reserve - Forestry's name

AUTHORITY CODE (authority) [Integer; 4,4,I] Code for identifying controlling authority

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

Reserve - Forestry areas included in the NPIL database and meeting the size criteria will be shown. Where a Reserve-Forestry Area is broken into a number of areas each area will be shown regardless of size if the total area of the reserve meets the size criteria.

The Authority code for reserve areas should not be populated with a value of 0. All reserves whose authority is not known or whose authority does not fit within the current categories specified in section 3 5.17 NPIL database, should have a authority value of 9999 (other not specified).

GEODATA

Mar

Reserve - Forestry features will be named where named in the NPIL database. Where the reserve is only identified by a number only the reserve type will be shown.

Data rules

Reserve - Forestry features will be bounded by a reserve line feature.

The Forestry Reserve area cannot overlap other reserved areas coverage polygons. ie. two differing reserve types cannot share a common polygon area.

Related features

Reserve line and Tile edge

Related chapters

Section 3 chapters 3.2.4 and 5.17

RESERVE - NATURE CONSERVATION

Land reserved for the conservation of native species.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | | |
|---------------|--|-------------|---------|--|
| Length Height | | 100K | 250K | |
| | | 500000 | 3125000 | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | nat_res | |
| Coverage (see Section 3 chapter 4) | 3 | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Reserve - Nature conservation's name.

AUTHORITY CODE (authority) [Integer; 4,4,I] Code for identifying controlling authority

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

Reserve - Nature conservation areas included in the NPIL database and meeting the size criteria will be shown. Where a Reserve-Nature Conservation Area is broken into a number of areas each area will be shown regardless of size if the total area of the reserve meets the size criteria.

The Authority code for reserve areas should not be populated with a value of 0. All reserves whose authority is not known or whose authority does not fit within the current categories specified in section 3 5.17 NPIL database, should have a authority value of 9999 (other not specified).

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Map

Reserve - Nature Conservation features will be named where named in the NPIL database. Where the reserve is only identified by a number only the reserve type will be shown.

Data rules

Reserve - Nature Conservation features will be bounded by a reserve line feature.

The Nature Conservation Reserve area cannot overlap other reserved areas coverage polygons. ie. two differing reserve types cannot share a common polygon area.

Related features

Park, Reserve line and Tile edge

Related chapters

Section 3 chapters 3.2.4 and 5.17

RESERVE - WATER SUPPLY

Land reserved to protect water supply catchments.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|---------------|--|-------------|---------|
| Length Height | | 100K | 250K |
| | | 500000 | 3125000 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | water_res | |
| Coverage (see Section 3 chapter 4) | 3 | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Reserve - Water supply's name

AUTHORITY CODE (authority) [Integer; 4,4,I] Code for identifying controlling authority

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

Reserve - Water Supply Areas included in the NPIL database and meeting the size criteria will be shown. Where a Reserve-Water Supply Area is broken into a number of areas each area will be shown regardless of size if the total area of the reserve meets the size criteria.

The Authority code for reserve areas should not be populated with a value of 0. All reserves whose authority is not known or whose authority does not fit within the current categories specified in section 3 5.17 NPIL database, should have a authority value of 9999 (other not specified).

GEODATA

Mar

Reserve - Water Supply features will be named where named in the NPIL database. Where the reserve is only identified by a number only the reserve type will be shown.

Where a Water Supply Reserve surrounds, or is coincident with a waterbody of the same root name, name the waterbody in the Waterbodies cover and do not name the Water Supply Reserve.

Data rules

Reserve - Water Supply features will be bounded by a reserve line feature.

The Water Supply Reserve area cannot overlap other reserved areas coverage polygons. ie. two differing reserve types cannot share a common polygon area.

Related features

Reserve line and Tile edge

Related chapters

Section 3 chapters 3.2.4 and 5.17

RESERVE LINE

The boundary of a reserved area polygon.

Minimum Size for Inclusion

| Dimens | Dimensions | | (sq m) |
|---------------|------------|---------|--------|
| Length Height | | 100K 25 | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | res_a_l | |
| Coverage (see Section 3 chapter 4) | 3 | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

65 - Single boundary

68 - Dual boundary not coincident with another feature

681 – Dual boundary coincident with another symbolised feature

0 - Boundary coincident with coastline

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Offset from coincident features in millimetres. The offset will move the feature to the left when viewed from start to node to end node.

TEXT NOTE (text_note) [character; 50,50,C] Descriptive note to appear on map

General Notes

Road reserves, powerline reserves and other linear feature reserves will not be shown through reserve areas.

GEODATA

Map

When a Reserve line of symbol number 65 follows linear features symbolised in red, reflex blue or black the Reserve line will be offset from the other feature. The FEATURE WIDTH value will be

such that there will be a gap of 0.15 mm between the respective symbols. For example, where a Reserve line is coincident with a principal Road the FEATURE WIDTH value will be 0.725 (0.15 plus half the width of the principal road symbol (0.45) plus half the width of the Reserve line's symbol (0.125)).

The Reserve line symbol will not be offset from coincident Prohibited area line symbols unless the two lines are also coincident with another symbolised feature.

Boundaries of reserves formed by, and coincident with, the coastline will not be shown. Such boundaries will have Symbol 0. (See Section 2 chapter 5.8.). This rule may be overridden in areas where not showing the boundary along the coastline causes ambiguity.

At 1:100 000 a descriptive note may be added on the map where a reserve boundary is not displayed because it follows the coastline, for example 'Reserve boundary follows coastline'

Data rules

Reserve line features will bound Reserve - Indigenous area, Reserve - Forestry, Reserve - Nature Conservation, Reserve - Water Supply and Reserve Void features.

Reserve lines of symbol 65 will be digitised such that the reserve is on the left going from start node to end node.

Where the Reserve line has a similar shape to another feature, such as a Road, Watercourse, Waterline or Railway, and is within 50 metres at 1: 250 000 and 20 metres at 1:100 000 of the feature, then the relevant section of Reserve line will be coincident with this other feature. Where the lines are of similar shape but the distance separating them is greater than 50 metres at 1:250 000 and 20 metres at 1:100 000 the Reserve line will be made coincident with the feature if it appears the Reserve line should be following the feature, for example where the boundary is following a stream line. These rules will not apply where two reserves are separated by a road reserve. In such cases the separation between the two boundaries will be maintained.

Where a Reserve area line has Reserve - Indigenous area, Reserve - Forestry, Reserve - Nature Conservation or Reserve - Water Supply on one side only it will be digitised such that the reserve is on the left going from start node to end node.

Related features

Built-up area line, Railway, Reserve - Indigenous area, Reserve - Forestry, Reserve - Nature conservation, Reserve - Water supply, Reserve void, Road, Watercourse and Waterline

Related chapters

Section 2 chapter 5.8

Section 3 chapters 5.7, 5.8 5.11.2 and 5.17

RESERVE VOID

A void in a reserved area.

Minimum Size for Inclusion

| Dimens | Dimensions | | sq m) |
|---------------|------------|-------|--------|
| Length Height | | 100K | 250K |
| | | 40000 | 250000 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA

Spatial object

| Representation | Polygon |
|------------------------------------|-------------|
| Planimetric Accuracy | 9999 / 9999 |
| Feature code | res_a_void |
| Coverage (see Section 3 chapter 4) | 3 |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

General Notes

GEODATA

Map

Data rules

Reserve voids will be bounded by reserve lines.

Reserve voids cannot overlap other reserved areas coverage polygons. ie. two differing reserve types cannot share a common polygon area.

Related features

Reserve line and Tile edge

Related chapters

Section 1 chapter 3.8.2

RESERVOIR

A body of water collected and stored behind a constructed barrier for some specific use.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|---------------|--|--------|--------|
| Length Height | | 100K | 250K |
| | | 22500 | 140625 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon |
|------------------------------------|-------------|
| Planimetric Accuracy | 9999 / 9999 |
| Feature code | reservoir |
| Coverage (see Section 3 chapter 4) | W |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Reservoir's name ie the name of the water body not the dam wall.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 10

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

New reservoirs smaller than 140625 sq. m at 1:250 000 or 22500 sq. m at 1:100 000. will be shown as a Water tank feature.

In densely and moderately settled regions as defined by Appendix C where a Dam wall meets the minimum size criteria, the attached reservoir should be shown regardless of whether or not it is

below the minimum size criteria for reservoirs. If a reservoir no longer exists (ie. filled with sediment) then the dam wall will not be shown.

GEODATA

Map

Reservoirs will be named where named in the base material/digital data or revision source material supplied.

Reservoirs are to have an accompanying descriptive note e.g.: aquarium for features not being used directly for human or livestock consumption.

Reservoirs will mask Parks.

Data rules

Reservoirs will be bounded by the waterline feature and segments may be bounded by a Junction feature. (See Section 1, 3.8.4).

Reservoirs cannot overlap;

Relief area coverage features (except voids), Sand ridges, Roads and Railways (except bridges, tunnels or fords), Waterpoints, Survey marks, other waterbody coverage polygons, Built-up area, Streams of any sort (except connectors), Spot elevations, Sea, Buildings, Vegetation coverage features of any type (except voids), Morphology coverage features, Navigation coverage features, Aircraft facilities and Seismic lines/Cleared lines.

Related features

Connector, Dam, Junction, Lake, Spillway, Tile edge, Water tank, Watercourse and Waterline

Related chapters

Section 1 chapters 3.2.4, 3.8.3, 3.8.4 and 3.8.9 Section 3 chapter 6.9.2

ROAD

A route for the movement of vehicles, people or animals.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|------|
| Length | Height | 100K | 250K |
| 5 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | road | |
| Coverage (see Section 3 chapter 4) | V | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road. (see Section 3 chapter 6.7.1)

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,1] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>1 - class not 5

<tile-id>4 - class 5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol numbers applicable:

250 - Dual carriageway

251 - Principal sealed

258 - Principal unsealed

256 - Secondary sealed

259 - Secondary unsealed

257 - Minor sealed

253 - Minor unsealed

254 - Vehicular track

252 - Under construction

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Feature width is only used for roads under construction (symbol 252). All other roads will have a feature width of '0'. The width of symbol 252 reflects the road classification, the following values will be used:

Feature width; Road class;

0.9 - Dual carriageway
0.9 - Principal road
0.6 - Secondary road
0.4 - Minor road
0.2 - Vehicular track

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences. An exception will be minor roads in built up areas which will be treated as per the rules below.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. An exception will be minor roads in built up areas which will be treated as per the rules below.

Road classifications will be as shown on the roads revision source material supplied.

Classifications are:

Dual carriageway - Divided Highway, Freeway, Tollway, or other major roads with separated carriageways in opposite directions.

Principal Road: - Highways, major through routes and major connecting roads as defined by the Australian Automobile Association (AAA) or other approved revision source material.

Secondary road: - Connecting roads that provide a connection between major through routes and/or major connecting roads, or connections between regional centres.

Minor road: - All other roads which form part of the public roads system between Principal roads and Secondary roads.

Vehicle tracks: - Public or private roadways of minimum or no construction which are not necessarily maintained.

Roads not shown on the authorised roads revision source material will maintain the classification on the latest previous edition map at scale or base material/digital data. Where the latest previous edition map uses a different road classification the least important class will be used. For example, road will be classified as minor road. Where use of the latest previous edition map or data would result in an illogical connection, for example if a secondary road connects only to minor roads, a logical connection will be used.

Roads will not be added only from interpretation of the imagery. However obvious road realignments may be captured when significant.

Where the carriage ways of a dual carriageway are separated by less than 1 mm at map scale the dual carriageway will be symbolised using symbol 250. If the separation of the carriageways is greater than 1mm at map scale, each carriageway will be shown in its true position, classified as principal road and have symbol number 251.

For detailed rules regarding situations involving roads, vehicle tracks, fences and vermin proof fences please refer to Appendix A page 106 Fence.

All dual carriageways and principal roads will be named. Secondary roads should be named where named on the latest previous edition map or data, or on the roads revision source material supplied.

At 1:250 000 minor roads and vehicular tracks will be named where named on the base Series 2 data unless there is clear evidence they no longer exist. No new names for Minor roads and vehicular tracks will be added in densely settled regions as defined by Appendix C. New names for Minor roads and vehicular tracks will be added in sparsely settled regions as defined by Appendix C where named on road revision source material supplied. A selection of new names for Minor roads and vehicular tracks may be added in moderately settled regions as defined by Appendix C, these should be taken from the roads revision source material supplied. In moderately settled regions preference should be given to minor roads and vehicular tracks which consititute through routes and/or lead to cultural or natural features.

At 1: 100 000 minor roads and vehicular tracks will be named where named on the base material/digital data (e.g. state mapping source) unless there is clear evidence they no longer exist. New names for Minor roads and vehicular tracks will be added where named on road revision source material supplied.

All dual carriageways, principal and secondary roads will be shown including those in built-up areas.

At 1:250 000 minor roads entering a builtup area will be continued to the first intersection with a dual carriageway, principal or secondary road. Minor roads totally contained in built-up areas will not be shown. This rule extends to other features in the built-up area layer where they are surrounded by a built-up area.

At 1:100 000 minor roads entering a builtup area will be continued to the first intersection with a major through route (preference should be given to intersections with dual carriageways, principal or secondary roads). In addition, sufficient minor roads will be shown to reflect the Built-up Area's road pattern. Select the major through routes (from Primary Reference material) to reflect the road pattern within the area whilst avoiding clutter. This rule will also extend to other features in the built-up area layer where they are surrounded by a built- up area.

GEODATA

Map

All dual carriageways, principal & secondary roads will be named where name is known.

At 1:100 000 naming of minor roads and vehicular tracks should give preference to features which consititute through routes and/or lead to cultural or natural features. Density of detail should determine the number of names shown. If a previous edition 1:100 000 map has been supplied this should be used as a guide for which roads are to be named in the new product.

At 1: 250 000 naming of minor roads and vehicular tracks should be consistent with name content in the digital data, subject to generalisation rules and clutter considerations.

Outside built-up areas, roads and highways should be named as above. The main roads through built-up areas may be named where space permits.

Roads under construction will be labelled 'under construction'.

Roads whose position is questionable will be labelled 'position approximate'.

Vehicle tracks labelled as 'four-wheel drive' on previous edition maps will not be labelled as such on the new product, as legend indicates 'access and condition not assured'.

The road subclass 'Dual Carriageway' will mask all other road subclasses (e.g. 'Principle Road', 'Secondary Road', 'Minor Road', 'Track').

Data rules

Roads will have nodes at all intersections.

Roads cannot overlap;

Sea, Reservoir, Perennial Lakes, Canal areas, Perennial Watercourse areas.

Roads cannot intersect cliff, cutting and embankment lines.

Related features

Built-up area line, Ferry route, Ford, Gate, Kilometric distance indicator, Locality, Prohibited area line, Road bridge, Road causeway, Road destination arrow, Road on dam, Road tunnel, Route marker - National, Route marker - State, Reserve line, Stock grid and Transition point

Related chapters

Section 1 chapters 3.2 and 3.8.6

Section 2 chapter 2.2.3

Section 3 chapters 3.2.4, 5.8, 5.11.2, 6.5.3 and 6.7

Appendix C

ROAD BRIDGE

A structure erected over a depression or obstacle to carry road traffic.

Minimum Size for Inclusion

| Dimensions | | Area | (sq m) |
|------------|---------------|------|--------|
| Length | Length Height | | 250K |
| | | | |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | Chain |
|------------------------------------|-------------|-------------|
| Planimetric Accuracy | 100 / 40 | 100 / 40 |
| Feature code | bridge_rd_p | bridge_rd_l |
| Coverage (see Section 3 chapter 4) | V | V |
| | | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road on which the bridge is located.

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,I] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

260 (Point and line)

0 (Point) When in close proximity to other features causing clutter.

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] The width of the symbol determined by the road classification (in millimetres);

Width; Road class;

0.9 - Dual Carriageway (note; width varies)

0.9 - Principal road

0.6 - Secondary road

0.4 - Minor road

0.2 - Vehicular track

- Under construction

* * use appropriate road width.

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360 Attribute for point only.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences. Road bridges will not be included when the road crossing the bridge has been removed within a Built-up area (see Road).

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist or unless the road crossing the bridge has been removed within a Built-up area (see Road).

Only significant bridges will be shown. The significance of the bridge depends on the number of bridges in the vicinity, the importance of the road etc.

Bridges will be shown as points when they are shorter than 0.4 mm to scale. When the length is longer than 0.4 mm to scale, bridges will be shown as chains.

The road for which the bridge was made need no longer exist, however, to be shown the bridge must still exist.

Bridges which carry both road and rail traffic will be held as coincident road bridge and railway bridge features in their respective layers.

The name attribute will be populated with the name of the Road to which the bridge relates.

GEODATA

Мар

Bridges of distinctive construction may be labelled (e.g 'drawbridge', 'swing bridge').

Where clutter would occur by symbolising a point bridge feature, the point bridge may be symbolised to symbol number '0' non-printing value.

Data rules

Road bridges may be shown off the road network if they are on a dismantled road.

Point Road bridges must fall exactly over a node on the Road feature.

Linear Road bridges break Road chains with coincident nodes with the Roads at both ends of the Road bridge chain.

Related features

Ford, Railway bridge, Road and Road causeway

Related chapters

Section 3 chapters 5.8, 5.9, 5.11.2 and 6.7

ROAD CAUSEWAY

An embankment of earth or masonry erected across open water or an area subject to inundation and carrying a road.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) | |
|--------|--------|--------|-------|--|
| Length | Height | 100K | 250K | |
| 2 mm | | | | |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | causeway_rd | |
| Coverage (see Section 3 chapter 4) | V | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road on which the Causeway is located.

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,I] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

245

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] The width of the symbol determined by the road classification (in millimetres);

Width; Road class;

0.9 - Dual Carriageway

(note; width varies)

0.9 - Principal road

0.6 - Secondary road

0.4 - Minor road

0.2 - Vehicular track

- Under construction

* * use appropriate road width.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

The road for which the causeway was made need no longer exist, however, to be shown the causeway must still exist.

Causeways which carry both road and rail traffic will be held as coincident road causeway and railway causeway features in their respective layers.

The name attribute will be populated with the name of the Road to which the causeway relates.

GEODATA

Map

Road causeways will be labelled 'causeway'.

Data rules

Road causeways break Road chains with coincident nodes with the Roads at both ends of the Road causeway chain.

Related features

Ford, Railway causeway, Road and Road bridge

Related chapters

Section 3 chapters 5.8 and 5.11.2

ROAD DESTINATION ARROW

A symbol at the neatline of the map within the margin indicating the direction of a road's destination or objective.

| Minimum Siz | ze for Inclus | sion | | Scales | Feature Usage |
|-------------|---------------|------|--------|----------------|---------------|
| Dimen | sions | Area | (sq m) | 1:250 000 & | Мар |
| Length | Height | 100K | 250K | 1:100 000 | |
| <u> </u> | | .] | 1 | | |

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | arrow_dest | |
| Coverage (see Section 3 chapter 4) | 5 | |

Data Attributes

GEODATA and working database

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

255 - with arrow head

42 - without arrow head (see Appendix B chapter 12)

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear in margin.

General Notes

At 1:250 000 road destination arrows and the name of the destination will be shown on the western and southern map edges only.

At 1:100 000 road destination arrows and the name of the destination will be shown from all edges of the bounding GDA94 Graticule.

Road destination arrows will normally be shown on dual carriageway, principal and secondary Roads. The use of Road destination arrows will be consistent with the use of Kilometric distance indicators, that is, Roads with distances shown will also have Road destination arrows where they meet the western and southern neatline (at 1:250 000) or the bounding GDA94 Graticule (at 1:100 000). When road destination arrows and related text unavoidably clash with Graticule values or are too close to the trim line,see Appendix B chapter 11 (for 1:250 00) or the 1:100 000 Layout Guide (for 1:100 000).

The destination will be a significant town or locality, generally on the adjoining map.

GEODATA

Map

The Road destination arrow will be placed in the map margin and will be oriented to show the direction of the destination point. The Road destination arrow will be labelled with the name of the destination and the road distance to the destination point, to the nearest kilometre from the neatline (at 1:250 000) or the bounding GDA94 graticule (at 1:100 000).

Data rules

Road destination arrows will be digitised such that the start node is at the map neatline(at 1:250 000) or the bounding GDA94 graticule (at 1:100 000) and the end node at the arrow head.

Related features

Road, Kilometric distance indicator

Related chapters

Section 3 chapter 5.7 Appendix B chapters 2, 3 and 11

ROAD ON DAM

The section of a road carried by a dam.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|-------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | road_on_dam | |
| Coverage (see Section 3 chapter 4) | V | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road on which the Road on dam is located.

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,I] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

45

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] The width of the symbol determined by the road classification (in millimetres);

Width: Road class:

0.9 - Dual Carriageway (note; width varies)

0.9 - Principal road

0.6 - Secondary road

0.4 - Minor road

0.2 - Vehicular track

** - Under construction

* * use appropriate road width.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

The name attribute will be populated with the name of the Road to which the Road on dam relates.

GEODATA

Map

This feature will take precedence over the Dam feature.

Data rules

The Road on dam feature will be created by cloning the dam feature from the utilities cover, and reassigning the feature class to Road on dam in the roads cover. This feature will replace the relevant section of road. The start and endpoint of the road must snap exactly to the respective start and endpoint of the Road on dam symbol.

Roads on dams cannot overlap;

Sea, Reservoirs, Lakes, Canal areas, Watercourse areas.

Roads on dams cannot intersect; any Morphology coverage lines and Watercourse lines except a spillway and connector.

Roads on dams will have nodes at all intersections.

Related features

Dam and Road

Related chapters

Section 3 chapters 5.8 and 5.11.1

ROAD OVERPASS

A separation of surface levels constructed to prevent direct intersection with other road or rail networks.

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K 40

| Scales | Featur |
|-----------|--------|
| 1:100 000 | GEOD |
| | Man |

Feature Usage GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | - / 40 | |
| Feature code | overpass_rd | |
| Coverage (see Section 3 chapter 4) | ٧ | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road on which the overpass is located.

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,I] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

267

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] The width of the symbol determined by the road classification (in millimetres);

Width; Road class;

0.9 - Dual Carriageway

(note; width varies)

0.9 - Principal road

0.6 - Secondary road

0.4 - Minor road

0.2 - Vehicular track

- Under construction
 - * * use appropriate road width.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences. Road overpasses will not be included when the road crossing the overpass has been removed within a Built-up area (see Road).

Only significant overpasses will be shown. When a road overpasses another road (only), the overpass will **not** be shown if there are related on and off ramps for full road inter-access. These cases will be shown as standard intersections. When this information is not available then the assumption should be that there is no inter-access.

Overpasses which carry both road and rail traffic will be held as coincident road overpass and railway overpass features in their respective layers.

The name attribute will be populated with the name of the Road to which the overpass relates.

GEODATA

Map

Data rules

Linear Road overpasses break Road chains with coincident nodes with the Roads at both ends of the Road bridge chain.

Related features

Ford, Railway and Road bridge, Railway and Road causeway, Railway Overpass

Related chapters

Section 3 chapters 5.8, 5.11.2 and 6.7

ROAD TUNNEL

An artificial underground or underwater passage carrying a road.

Minimum Size for Inclusion

| Dimens | sions | Area (| (sq m) |
|--------|--------|--------|--------|
| Length | Height | 100K | 250K |
| | | | |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | Chain |
|------------------------------------|-------------|-------------|
| Planimetric Accuracy | 100 / 40 | 100 / 40 |
| Feature code | tunnel_rd_p | tunnel_rd_l |
| Coverage (see Section 3 chapter 4) | V | V |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The name of the road on which the tunnel is located.

CLASSIFICATION (class) [Integer; 1,1,I] The road's classification;

- 1 Dual Carriageway
- 2 Principal Road
- 3 Secondary Road
- 4 Minor Road
- 5 Track

FORMATION (formation) [integer; 1,1,1] Type of road surface;

- 1 Sealed
- 2 Unsealed
- 3 Unknown
- 4 Under construction

NATIONAL ROUTE NUMBER (NRN) [character; 12,12,C] The national route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

STATE ROUTE NUMBER (SRN) [character; 12,12,C] The state route number/s assigned to the road (if multiple numbers, delimited by a minus sign). Alpha characters in this field are to be in upper case.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol Number applicable; 205 – Line 0- Point

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

Attribute for point only.

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0 Attribute for point only.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Road tunnels will be shown as points when they are shorter than 1 mm to scale. When the length is longer than 1 mm to scale, tunnels will be shown as chains.

Tunnels which carry both road and railway traffic will be held as a coincident road tunnel and railway tunnel feature in their respective layers.

The name attribute will be populated with the name of the Road to which the tunnel relates.

GEODATA

Map

Road tunnels may be named.

Data rules

Linear Road tunnels must meet exactly on the node at each end of the Road feature where they disappear and resurface.

The TEXT_NOTE field will be used to enter the name of the tunnel itself (note: the NAME field is used to enter the name of the road to which the tunnel is attached)

Related features

Railway tunnel, Road and Transition point

Related chapters

Section 3 chapters 5.11.2 and 6.7

ROCKY OUTCROP

An area of land where large rocks or boulders protrude from or rest on the surface.

Minimum Size for Inclusion

| Dimen | sions | Area (| sq m) |
|--------|--------|--------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | rocky_a | |
| Coverage (see Section 3 chapter 4) | q | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 90

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

New polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

GEODATA

Map

Rocky outcrops are to have an accompanying note 'rocky outcrops'.

Data rules

Rocky outcrop polygons will be bounded by a Relief area line feature.

Rocky outcrops cannot overlap;

Other relief area coverage polygons, aeronautical points, Built-up area, Sea, Building area, Woody vegetation, Lakes, Reservoir, Watercourse area, Canal area and aeronautical area.

Related features

Relief area line and Tile edge

Related chapters

ROUTE MARKER - NATIONAL

The symbol printed over a road indicating a national route.

| Mi | nimum Siz | e for Inclus | sion | | |
|----|-----------|--------------|--------|-------|---|
| | Dimens | ions | Area (| sq m) | |
| | Length | Height | 100K | 250K | _ |
| | | | | | |

| Sc | ales | |
|----|-----------|--|
| | 1:250 000 | |
| | & | |
| | 1:100 000 | |

| -eature | Usage |
|---------|-------|
| Мар | |
| | |

Spatial object

| Representation | Point | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | route_nat | |
| Coverage (see Section 3 chapter 4) | 5 | |

Data Attributes

GEODATA and working database

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol Number applicable; 27

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Route markers are to be shown both inside and outside built-up areas.

Route markers will be placed at sufficient locations to enable the route to be readily identified for its whole length on a map.

A route marker will be placed on each route in close proximity to the map edge. See Section 2, chapter 5.9.

GEODATA

Map

The route number will be shown in the centre of the shield as annotation. Alpha characters in route numbers will be in upper case.

National route markers will generally be placed clear of other map detail, but where this is not possible they will mask all other detail except the route number.

Data rules

The route marker must be coincident with a node or vertice on the road feature to which it relates.

Related features

Annotation and Road

Related chapters

Section 2 chapter 5.9

Section 3 chapters 3.2.4, 5.11.2 and 6.7.2

ROUTE MARKER - STATE

The symbol printed over a road indicating a state route.

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K

| Sc | ales |
|----|-----------|
| | 1:250 000 |
| | & |
| | 1:100 000 |

| -eature | Usage |
|---------|-------|
| Мар | |
| | |

Spatial object

| Representation | Point | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | route_state | |
| Coverage (see Section 3 chapter 4) | 5 | |

Data Attributes

GEODATA and working database

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol Number applicable; 28 Standard symbol 281 – Oversize symbol

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology;

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

Route markers are to be shown both in and outside built-up areas.

Route markers will be placed at sufficient locations to enable the route to be readily identified for its whole length on a map.

The oversize symbol 281 will be used when the state route number annotation can not comfortably fit within the boundaries of the standard symbol. This will generally be the case when the state route number is formed by 3 or more characters.

A route marker will be placed on each route in close proximity to the map edge. See Section 2, chapter 5.9

GEODATA

Map

The route number will be shown in the centre of the rectangle as annotation. Alpha characters in route numbers will be in upper case.

State route markers will generally be placed clear of other map detail, but where this is not possible they will mask all other detail except the route number.

Data rules

The route marker must be coincident with a node or vertice on the road feature to which it relates.

Related features

Annotation and Road

Related chapters

Section 2 chapter 5.9

Section 3 chapters 3.2.4, 5.11.2 and 6.7.2

RUBBISH TIP

An area above ground for the disposal of rubbish.

| Mi | nimum Siz | e for Inclus | ion | | Scales | Feature Usage |
|-----------|-------------------|--------------------|----------------|---------------------------------|-------------------------------|-------------------------|
| | Dimens | sions | Area (s | sq m) | 1:100 000 | GEODATA & Map |
| | Length | Height | 100K | 250K | | Μαρ |
| | | | 62500 | | | |
| <u>۔</u> | atial ahiaa | 4 | | | 1 | |
| Sp | atial objec | τ | | | | |
| | Represent | tation | | Polygon | | |
| | Planimetri | c Accuracy | | - / 9999 | | |
| | Feature co | ode | | tip | | |
| | Coverage | (see Section | n 3 chapter | | | |
| <u> </u> | 4- A 44-14 | | | | | |
| | ta Attribute | es nd working d | atahasa | | | |
| <u>GL</u> | ODATA att | ia working a | <u>alabase</u> | | | |
| Se | | | | haracter; 8,8, hapter 5.14); | C] Pointer to attribute and f | eature reliability (see |
| W | orking datal | base only | | | | |
| SY | MBOL (svr | nbol) [binary | v: 4.5 Bl | | | |
| Sy | | er applicabl | | | | |
| 0 | | | | | | |
| TE | XT NOTE (| (text_note) [| character; 3 | 0,30,C] Desc | riptive note to appear on ma | ap |
| Ge | neral Note | ·s | | | | |
| | | | | | | |
| GE | ODATA | | | | | |
| | | | | | | |
| Ma | ıp | | | | | |
| Fe | atures shou | ıld be labelle | ed 'rubbish t | ip'. | | |
| Da | ta rules | | | | | |
| Ru | bbish tips v | vill be bound | ded by a Bui | lt-up area line | e feature. | |
| Re | lated featu | ires | | | | |
| Bu | ilt-up area l | ine, Built-up | area void a | nd Tile edge | | |
| Re | lated chan | tors. | | | | |

RUNWAY CENTRELINE

A symbol used to indicate the length and orientation of an airport's runway.

| Minimum Size fo | or Inclusion | | Scales | Feature Usage |
|--|------------------------------|---------------------|---------------------|------------------------|
| Dimensions | s Area (sq | m) | 1:250 000 | Мар |
| Length H | eight 100K 2 | 250K | | |
| | | | | |
| Spatial object | | | | |
| Representation | nn | Chain | | |
| Planimetric Ac | | 100 / - | | |
| Feature code | odiady | runway_c_l | | |
| | e Section 3 chapter 4) | 5 | | |
| Data Attributes | | | | |
| GEODATA and w | orking database | | | |
| Working database | e only | | | |
| SYMBOL (symbo Symbol number a 706 licenced airc 0 unlicenced airc | applicable; raft facility | | | |
| General Notes | | | | |
| | | | | |
| GEODATA | | | | |
| | | | | |
| Мар | | | | |
| | | | | |
| Data rules | | | | |
| This chain will be | the length of the runwa | ay, and correctly | oriented. | |
| All runway centre | lines for all licenced air | craft facilities wi | ll be captured. | |
| Runway centrelin | es >457metres (1500 f | eet) will be capto | ured for unlicenced | d aircraft facilities. |
| Related features | | | | |
| Aircraft facility | | | | |

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

Related chapters

Section 1 chapter 3.8.10

SALINE COASTAL FLAT

That nearly level tract of land between mean high water and the line of the highest astronomical tide.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

| | |
|-----------|--|
| 1:250 000 | |
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | saln_cst_flt | |
| Coverage (see Section 3 chapter 4) | W | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable; 23

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

GEODATA

Map

A descriptive note is only required when the previous edition map, revision source material or a special instruction from Geoscience Australia indicates precise characteristics of the foreshore flat e.g. mud.

Data rules

Saline coastal flats will be bounded by the Waterline feature.

Saline coastal flat cannot overlap Sea, other Waterbody coverage polygons.

Related features

Junction, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.3 and 3.8.4 Section 3 chapter 6.9.3

SALT EVAPORATOR

A flat area, usually segmented, used for the commercial production of salt by evaporation.

Minimum Size for Inclusion

| Dimens | Dimensions | | sq m) |
|---------------|------------|-------|--------|
| Length Height | | 100K | 250K |
| | | 62500 | 390625 |

Scales

| 1:250 000 |
|-----------|
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | salt_evapor | |
| Coverage (see Section 3 chapter 4) | W | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 23

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators.

Adjacent segments will be shown as one polygon, divided by salt evaporator internal lines.

GEODATA

Map

Salt evaporators will be labelled 'salt evaporator'.

Data rules

Salt evaporators will be bounded by a Waterline feature.

Salt evaporators cannot overlap;

Relief area coverage polygons (except voids), Building area, any Built-up area coverage feature, Aeronautical area, Sea, any Vegetation coverage feature (except voids)

Related features

Canal, Levee, Salt evaporator internal line, Tile edge and Waterline

Related chapters

SALT EVAPORATOR INTERNAL LINE

A levee bank or small canal within a salt evaporator.

| Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K 5 mm Spatial object Representation Planimetric Accuracy Feature code Coverage (see Section 3 chapter 4) Data Attributes GEODATA and working database Morking database only SYMBOL (symbol) [binary; 4,5,8] Symbol number applicable: 11.250 000 size and any other selection criteria apply to all feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map Data rules | | | | | | | |
|---|------------------|-------------|----------------|------------------|-------------|--------------------|-----------------------|
| Length Height 100K 250K 5 mm Spatial object Representation Planimetric Accuracy Feature code Coverage (see Section 3 chapter 4) Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:250 000 size and any other selection criteria apply to all feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA | Minimum Size | for Inclus | sion | | 5 | Scales | Feature Usage |
| Length Height 100K 250K 1:100 000 | Dimensio | ons | Area (| sq m) | | | Мар |
| Spatial object Representation Chain 100 / 40 salt_ev_i 1 5 Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:250 000 size and any other selection criteria apply to all feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA | Length | Height | 100K | 250K | | | <u> </u> |
| Representation Planimetric Accuracy Feature code Coverage (see Section 3 chapter 4) Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA | 5 mm | | | | | | |
| Representation Planimetric Accuracy Feature code Coverage (see Section 3 chapter 4) Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA | | | | | _ | | |
| Planimetric Accuracy Feature code Coverage (see Section 3 chapter 4) Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA | Spatial object | | | | | | |
| Feature code Coverage (see Section 3 chapter 4) Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA | Representat | tion | | Chain | | | |
| Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | Planimetric A | Accuracy | | 100 / 40 | | | |
| Data Attributes GEODATA and working database Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | Feature cod | е | | salt_ev_i | _l | | |
| Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | Coverage (s | see Sectio | n 3 chapter | 4) 5 | | | |
| Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | | | | | |
| Working database only SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | latabasa | | | | |
| SYMBOL (symbol) [binary; 4,5,8] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | GEODATA and | working a | <u>atabase</u> | | | | |
| SYMBOL (symbol) [binary; 4,5,8] Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | | | | | |
| Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | Working databa | ise only | | | | | |
| Symbol number applicable: 114 95 Warburton Groove only. General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | SVMBOL (symb | nol) [hinan | r: 4 5 Bl | | | | |
| General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | | | | | |
| General Notes At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | Graava an | h. | | | | |
| At 1:100 000 size and any other selection criteria apply to all feature occurrences. At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | 95 Warburton C | 3100ve on | iy. | | | | |
| At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | | | | | |
| occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | At 1:100 000 siz | ze and any | other selec | ction criteria a | pply to all | feature occurren | ces. |
| no longer exist. Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | | | | | |
| Levee banks or canals less than 5 mm in length at map scale will not be shown within salt evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | sting in th | e base Seri | es 2 data will | be retaine | ed unless there is | clear evidence they |
| evaporators. The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | | | | | | |
| The lines bounding the Warburton Groove feature should be included in the drainage coverage with a symbol 95, rather than symbol 114. GEODATA Map | | canals les | ss than 5 mr | m in length at | map scal | e will not be show | vn within salt |
| a symbol 95, rather than symbol 114. GEODATA Map | · | | | | | | |
| Мар | | | | | should be | included in the d | rainage coverage with |
| Мар | GEODATA | | | | | | |
| | 0_0 | | | | | | |
| | Man | | | | | | |
| Data rules | map | | | | | | |
| | Data rulos | | | | | | |

Must be entirely within a Salt Evaporator polygon.

Related features

Canal, Levee, Salt evaporator

Related chapters

SAND

An area predominantly covered with sand and devoid of vegetation.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | sand | |
| Coverage (see Section 3 chapter 4) | q | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 22

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Note: where existing areas of sand are overlapped by newly defined Woody vegetation, Rainforest or Plantation by definition the sand feature no longer exists.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

Sand will not be shown in area or braided watercourses. (See features Lake and Watercourse).

GEODATA

Map

Data rules

Sand will be bounded by a Relief area line feature.

Sand cannot overlap;

Other Relief area coverage polygons, any Vegetation coverage feature (except voids), Aeronautical areas, Lakes, Reservoirs, Watercourse areas, Canal areas or Sea.

Related features

Plantation, Rainforest, Relief area line, Woody vegetation, and Tile edge

Related chapters

SAND DUNES

Mounds of loose sand usually crescent shaped transverse to the prevailing winds.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | dunes | |
| Coverage (see Section 3 chapter 4) | q | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable; 25

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one larger representative polygon where they are less than 0.5 mm apart at map scale.

GEODATA

| Мар | | | |
|-----|--|--|--|
| | | | |

Data rules

Sand dunes will be bounded by a Relief area line feature.

Sand dunes cannot overlap;

Other Relief area coverage polygons, any Vegetation coverage feature (except voids), Aeronautical areas, Lakes, Reservoirs, Watercourse areas, Canal areas or Sea.

Related features

Relief area line and Tile edge

Related chapters

SAND RIDGE

Sand drifts in long ridges tending parallel to and elongating in the direction of the prevailing winds.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|-------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | sand_ridge | |
| Coverage (see Section 3 chapter 4) | S | |

Data Attributes

GEODATA and working database

AVERAGE HEIGHT (average_height) [integer; 2,2,I] The average height of the Sand ridges above the surrounding country

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 33

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

The average height of the sand ridges attribute is to be populated, where the average height is shown on the latest previous edition map or compilation. Where the average height was not shown this attribute will be 0.

GEODATA

Map

Descriptive notes indicating the average height of the sand ridges are to be included, where the average height is shown on the latest previous edition map or compilation.

Data rules

Sand ridges cannot overlap:

Sea, Lakes, Reservoirs, Watercourses or Canals.

Related features

Related chapters

SEA

The water area surrounding the Australian continent and its offshore islands.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) |
|------------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | sea | |
| Coverage (see Section 3 chapter 4) | f | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Sea or ocean's name.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 10

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

The boundaries and names of Seas will be as defined by Appendix E - 'Limits of Oceans and Seas'.

Note: The sea feature class will be used for seas and oceans on Appendix E. 'Other waters' will be shown as localities. For example, on Burketown E5406 the sea feature will carry the name attribute 'ARAFURA SEA' and the Gulf of Carpentaria would be a locality of type place name.

If two seas/oceans appear on the one tile the boundary will be shown by a junction feature.

Where a sea is nested in an ocean the sea will take precedence.

GEODATA

Map

The names of seas will be shown.

The names of Oceans which overlap seas and 'other waters' shown on Appendix E - Limits of Oceans and Seas will be named. Such features will be stored in the working database as Annotation features.

Where space permits, areas of sea will include the note:

'CAUTION: THIS MAP IS NOT TO BE USED FOR MARITIME NAVIGATION PURPOSES

Refer to the appropriate hydrographic chart for depth information'

The note will be in black, on three lines broken as above and centre justified. The first two lines will be UMC 10 point all caps and the third line will be UMC 5 point caps and lower case.

Data rules

Seas will be bounded by Waterline and Tile edge features. Seas may also be bounded by Junction and Sea wall features.

Sea cannot overlap other framework polygons.

Related features

Junction, Sea wall, Tile edge and Waterline

Related chapters

Section 1 chapter 3.9

Section 3 chapter 6.9.3

Appendix E

SEA WALL

A solid structure usually of concrete masonry or earth, built to prevent erosion or encroachment by the sea.

Minimum Size for Inclusion

| Dimensions | | Area (| (sq m) |
|------------|--------|--------|--------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | sea_wall | |
| Coverage (see Section 3 chapter 4) | f | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 71

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Only walls that form part of the coastline and are usually under daily tidal influence will be shown.

GEODATA

Мар

Sea walls will be labelled 'sea wall'. Wharves will not be labelled but may be named where named on the latest previous edition map.

Data rules

Sea walls form part of the coastline in the Framework cover, and will replace the equivalent section of waterline.

Wharves coincident with the coastline will be cloned as sea walls.

Related features

Built-up area line, Breakwater, Contour, Island, Jetty, Mainland, Sea, Vegetation line and Wharf

Related chapters

Section 1 chapter 3.8.11 Section 3 chapters 5.11.1 and 5.11.2

SEISMIC LINE/CLEARED LINE

A graded path in a straight line.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) | |
|--------|--------|--------|-------|--|
| Length | Height | 100K | 250K | |
| 10 mm | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | seismic_l | |
| Coverage (see Section 3 chapter 4) | 4 | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 99

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:250 000 Seismic Lines/Cleared Lines shown on the base Series 2 data will be shown, unless there Is clear evidence they no longer exist. No new Seismic lines/Cleared lines will be added.

At 1:100000 Seismic Lines/Cleared Lines shown on the latest previous edition map and its related 'parent' 250K maps will be shown, unless there Is clear evidence they no longer exist. No new Seismic lines/Cleared lines will be added.

GEODATA

Map

Seismic lines/Cleared lines will be labelled, for example 'seismic line', 'cleared line'.

Seismic lines/Cleared lines will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

Seismic lines/Cleared lines cannot overlap; Sea, Lakes, Reservoirs, Watercourse areas or Canal areas.

Related features

Related chapters

SETTLING PONDS

Shallow beds, usually segmented by constructed walls, for the treatment of sewage or other wastes, or used for aquaculture.

Minimum Size for Inclusion

| Dimer | nsions | Area (| (sq m) |
|--------|--------|--------|--------|
| Length | Height | 100K | 250K |
| | | 62500 | 390625 |

Scales

| 1:250 000 |
|-----------|
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | sew_pond | |
| Coverage (see Section 3 chapter 4) | w | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable; 23

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Levee banks less than 5 mm in length at map scale will not be shown within Settling ponds.

Adjacent ponds will be shown as one polygon, separated by Settling pond internal lines.

GEODATA

Map

Settling ponds are to have an accompanying descriptive note eg 'settling ponds', 'tailings pond' unless the words 'settling pond' or 'tailings pond' are included in the name.

Data rules

Settling ponds will be bounded by a Waterline feature.

Settling ponds cannot overlap; Other waterbody coverage polygons, Aeronautical coverage areas, Sea, Vegetation coverage polygons (except voids).

Related features

Mine, Open cut/mining area, Settling pond internal line, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.3

SETTLING POND INTERNAL LINE

Levee banks within settling ponds.

| Minimum Size for Inclusion | | Scales | Feature Usage |
|----------------------------------|-----------------------|----------------------------|----------------|
| Dimensions | Area (sq m) | 1:250 000 & | Мар |
| Length Height 10 | 00K 250K | 1:100 000 | |
| 5 mm | | | |
| Spatial object | | | |
| Representation | Chain | | |
| Planimetric Accuracy | 100 / 40 | | |
| Feature code | sew_pond | LiJ | |
| Coverage (see Section 3 of | chapter 4) 5 | | |
| | | | |
| Data Attributes | | | |
| GEODATA and working datab | <u>ase</u> | | |
| | | | |
| Working database only | | | |
| Working database only | | | |
| SYMBOL (symbol) [binary; 4,5 | | | |
| Symbol number applicable; 1 | 14 | | |
| General Notes | | | |
| Levee banks less than 5 mm i | n length at map scale | will not be shown within S | ettling ponds. |
| GEODATA | | | |
| | | | |
| Мар | | | |
| • | | | |
| Data rules | | | |
| Must be entirely within a Settli | ng pond polygon. | | |
| Related features | | | |
| Settling ponds | | | |
| Related chapters | | | |

SPILLWAY

A channel or duct formed around the side of a reservoir past the end of the dam, to convey flood discharge from the watercourse above the reservoir into the watercourse below the dam.

Minimum Size for Inclusion

| Dimens | ions | Area (| (sq m) |
|--------|--------|--------|--------|
| Length | Height | 100K | 250K |
| 1 mm | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | spillway | |
| Coverage (see Section 3 chapter 4) | d | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] Name of associated watercourse

PERENNIALITY (perennial) [integer; 1,1,I] Code for perenniality;

- 0 Not Applicable
- 1 Perennial
- 2 Non-perennial

HIERARCHY (hierarchy) [integer; 1,1,I] Importance of associated watercourse

- 0 Not Applicable
- 1 Major
- 2 Minor

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 926

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

A Spillway feature will represent the spillway chute and any associated stilling basins. Where water overtops the dam wall a spillway will not be shown e.g. Hume Dam or Scrivener Dam. (see Dam)

The spillway will carry the Name, Hierarchy and Perenniality attributes of the watercourse to which it relates.

GEODATA

Мар

Data rules

Spillways must be adjacent to a Reservoir.

Spillways can not overlap;

Built-up areas, Sea, Reservoirs, Lakes, Canal areas or Watercourse areas.

Spillways start on the node of connectors across reservoirs and end on the node of a connector or watercourse below a dam wall.

Related features

Connector, Dam and Reservoir

Related chapters

SPOT ELEVATION

A point on the earth's surface, of known elevation, above or below the Australian Height Datum (AHD66)

Dimensions Area (sq m) Length Height 100K 250K

| Scales |
|-----------|
| 1:250 000 |
| & |
| 1:100 000 |

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | spot_elevatn | |
| Coverage (see Section 3 chapter 4) | е | |

Data Attributes

GEODATA and working database

ELEVATION (elevation) [number; 7,7,N,2] Elevation in metres from the Australian Height Datum

SOURCE (source) [integer;1,1,1] Code for the source of the Spot elevation;

- 1 Printed Map
- 2 Compilation material
- 3 Digital Topographic Data

POINT DETERMINATION (point) [integer; 1,1,1] Code for the type of Spot elevation

- 1 Spot elevation
- 2 Spot elevation inside depression contour
- 3 Spot elevation on sand ridge
- 4 Spot elevation captured from contour (to be used only at 1:100 000. For 1:250 000 permission is required from Geoscience Australia see section 3 chapter 6.6.1 Spot Elevations)

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>7

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

52

0 (see Section 3 chapter 6.6)

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

Spot elevations will be selected to best show terrain shape, change of slope and high and low points.

In any group of related features (ridges, peaks, saddles), the highest elevation shall be shown. See Section 3 chapter 6.6.1

The highest spot elevation on the map including the bleed edges shall be shown.

GEODATA

The highest spot elevation within the tile will be shown. See Section 3 chapter 6.6 for treatment of Spot elevations in close proximity to Locality mountains and Horizontal control points and chapter 6.6.1 for selection rules for Spot elevations.

Map

Spot elevations will be labelled with their elevation (See Section 2 chapter 5.12)

Data rules

Contours and Auxiliary Contours must fit logically with Spot elevations.

Spot elevations cannot overlap Lakes, Reservoirs, Watercourse areas, Canal areas, Sea, Building area.

Related features

Benchmark, Horizontal control point, Landmark point, Locality (mountain), Pinnacle and Reef

Related chapters

Section 1 chapter 3.6.5

Section 3 chapters 5.11.1 and 6.6

SPRING

A place where water issues from the ground naturally.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|---------------|--|-------------|------|
| Length Height | | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | spring | |
| Coverage (see Section 3 chapter 4) | X | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Spring's name - for 100K use only

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The Spring's name - for 250K use only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 73

, 0

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

This feature will not be shown in densely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' regardless of whether it was shown on/in the base material/digital data. Refer to Appendix C for more information on when to capture this feature.

At 1:100 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to all feature occurrences.

At 1:250 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to new feature occurrences. All

| feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist. |
|--|
| · · · · · |
| GEODATA |
| |
| Мар |
| |
| |
| Data rules |
| Springs cannot overlap Perennial Lakes, Reservoirs, Watercourse areas, Canal areas or Sea. |
| Related features |
| Bore and Waterpoint |
| |
| Related chapters |
| Appendix C |

STATE BORDER

The boundary defining the division of the Commonwealth of Australia into State/Territory administrations.

Minimum Size for Inclusion Dimensions Area (sq m) Length Height 100K 250K

| Scales |
|-----------|
| 1:250 000 |
| & |
| 1.100 000 |

Feature Usage GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|--------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | state_border | |
| Coverage (see Section 3 chapter 4) | f | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>1

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable; 80

0 non-printing

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

State Borders which do not follow physical features will be imported from the Geoscience Australia GEODATA 100K Coast Product. State borders which follow physical features will be coincident with those features.

Where a state border coincides with a lock symbol it is logical that the border symbol should be broken and the lock symbol shown. In such circumstances, the state border symbol may be symbolised to symbol number '0' non-printing value.

GEODATA

Map

State borders will be labelled with State names (See Section 2, 4.6)

State borders will be masked where black type unavoidably overprints the feature. The break measurement will be 0.2 mm on either side of the type where it crosses the feature. (Note: the feature will be masked only on the map and will be complete in the data.)

Data rules

State borders will bound mainland polygons.

State borders cannot overlap Sea.

Related features

Boundary - International and Mainland

Related chapters

Section 3 chapters 3.2.4, 5.11.2 and 6.8

STOCK GRID

A grid at the opening in a fence to prevent livestock crossing but allowing for the free passage of vehicles.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|---------------|--|-------------|------|
| Length Height | | 100K | 250K |
| | | | |

Scales

| | |
|-----------|--|
| 1:250 000 | |
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | grid | |
| Coverage (see Section 3 chapter 4) | V | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 25

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360

General Notes

At 1:100 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' except for Stock grids on Vermin Proof fences which will be shown in all areas.

At 1:250 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide', regardless of whether it previously existed in the base Series 2 data, except for Stock grids on Vermin Proof fences which will be shown in all areas.

Stock grids will not be shown on vehicle tracks with the exception of Stock grids in Vermin or Dog Proof fences which will be shown in all areas.

GEODATA

Map

The underlying fence symbol will be masked out for the stock grid symbol.

Data rules

Stock grids must be coincident with a node on the road feature, and must fall exactly on the fence. If necessary a vertice should be added to ensure the fence, road and stock grid are coincident with each other.

Stock grids cannot overlap Lakes, Reservoirs, Watercourse areas, Canal areas, Building areas or Sea.

Related features

Fence, Gate and Road

Related chapters

Section 3 chapters 5.9 and 5.11.2 Appendix C

STORAGE TANK

Large vessel for the storage of liquids (not water) or gases, usually associated with refineries or chemical plants.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|---------------|--|-------------|------|
| Length Height | | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | stor_tank_p | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 801

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Storage tanks will be shown when the features are sufficiently prominent to serve as landmarks.

This feature will be used to represent the location of an individual storage tank as well as groups of tanks. A group of tanks that cannot be shown individually may also be shown by a representative pattern.

GEODATA

Map

Storage tanks are to have an accompanying descriptive note eg 'storage tanks', 'oil tanks' unless a description is included in the name.

Data rules

Related features

Landmark point and Water tank

Related chapters

SWAMP

Land which is so saturated with water that it is not suitable for agricultural or pastoral use and presents a barrier to free passage.

Minimum Size for Inclusion

| Dimensions | | Area (| sq m) | |
|------------|--------|--------|---------|--|
| Length | Height | 100K | 250K | |
| | | 250000 | 1562500 | |

Scales

| 1:250 000 |
|-----------|
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | swamp | |
| Coverage (see Section 3 chapter 4) | W | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Swamp's name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 908

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Polygons that are smaller than the minimum size for inclusion and are in groups may be aggregated into one large representative polygon where the small areas of swamp are less than 0.5mm apart at map scale.

GEODATA

Map

Watercourses entering swampy areas will be shown only to the limits of the eroded channels.

No direction of flow arrow will be added when a watercourse symbol stops in a swamp. (see Watercourse)

Swamps having distinctive vegetation will be labelled appropriately e.g. lignum, marsh, wetlands, cane grass unless a description is included in the name

Data rules

Swamps will be bounded by Waterlines and may be bounded by Junction features. (See Section 1 3.8.4)

Swamps cannot overlap;

Other waterbody coverage polygons or Sea.

Related features

Connector, Junction, Marine swamp, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.3, 3.8.4 and 3.8.9 Section 3 chapter 6.9.2

TAXIWAY

A route for the movement of Aircraft and vehicles which service them.

| Mi | nimum Siz | e for Inclus | sion | | Scales | | Feature Usage |
|-----|-------------------------------|---|-----------------|----------------|------------------------------------|-----------------|----------------------|
| | Dimens | sions | Area (s | sq m) | 1:100 | 000 | GEODATA & Map |
| | Length | Height | 100K | 250K | | | |
| | | | | | | | |
| Sn. | atial objec | + | | | ı | | |
| | atiai objec | | | | | | |
| | Represent | tation | | Chain | | | |
| | Planimetri | c Accuracy | | - / 40 | | | |
| | Feature co | ode | | taxiway | | | |
| | Coverage | (see Sectio | n 3 chapter | 4) a | | | |
| Da | ta Attribut | es | | | | | |
| GE | ODATA ar | nd working d | | | | | |
| DA | TA QUALI | TY POINTE | R (q_info) [c | haracter; 8,8, | C] Pointer to attrib | oute and feato | ure reliability (see |
| | ction 1 cha ile-id>1 | pter 3.5 and | Section 3 c | hapter 5.14); | | | |
| | | | | | | | |
| | orking datal MBOL (svr | <u>base only</u> nbol) [binar _] | v: 4 5 B1 | | | | |
| | | er applicabl | | | | | |
| 70 | 9 | | | | | | |
| Ge | neral Note | es | | | | | |
| | | | | | ement pattern. Se | | |
| | hin the area by shall be s | | iding clutter. | Where all tax | liways can be sho | wn without ca | ausing clutter then |
| | y onan bo c | 5110 W11. | | | | | |
| | | | | | a vertex on the pertination point. | erimeter of the | e Aircraft Facility |
| GE | ODATA | | | | | | |
| | | | | | | | |
| Ма | ıp | | | | | | |
| | | | | | | | |
| Da | ta rules | | | | | | |
| Ta | xiways mus | st fall wholly | within Airpo | rt features. | | | |
| Re | lated featu | ires | | | | | |
| Air | craft facility | , Airport, Ai | rcraft Facility | / Line | | | |
| Re | lated chap | ters | | | | | |
| | ction 1 cha | | | | | | |

TILE EDGE

The line defining the limits of the GEODATA and working database extents.

| Mı | nımum Sız | e tor Inclus | sion | | |
|----|-----------|--------------|--------|------|--|
| | Dimens | ions | Area (| | |
| | Length | Height | 100K | 250K | |
| | | | | | |

| Scales |
|-----------|
| 1:250 000 |
| & |
| 1:100 000 |

Feature Usage GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|------------------------------------|--|
| Planimetric Accuracy | 1/1 | |
| Feature code | tile_edge | |
| Coverage (see Section 3 chapter 4) | b, c, f, i, o, q, t, w, z, 1 and 3 | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>9

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15). For framework cover only.

General Notes

Tile edge features will be used to show the extent of both the working database and GEODATA tile. For the extents of Working data and GEODATA see appendices G and H.

| GEODATA | | |
|---------|--|--|
| | | |
| | | |
| Мар | | |
| | | |

Data rules

Tile edge features will bound all polygon features which touch the tile edge in either the working database or the GEODATA tile database.

Sections of tile edge in layers other than the Framework layer will be coincident with the Tile edge in the Framework layer.

Related features

Aircraft facility, Aircraft facility void, Airport, Building, Built-up area, Built-up area void, Canal, Cemetery, Crater, Distorted surface, Foreshore flat, Woody vegetation, Hypsometric area, Island, Kilometric distance indicator, Lake, Land subject to inundation, Mainland, Mangrove, Mangrove flat, Map mask, Marine swamp, Offshore void, Open Cut/mining area, Orchard or vineyard, Park, Plantation, Prohibited area, Prohibited area void, Rainforest, Rapid, Reef, Relief area void, Reserve - Indigenous area, Reserve - Forestry, Reserve - Nature conservation, Reserve - Water supply, Reserve void, Reservoir, Rocky outcrop, Rubbish tip, Saline coastal flat, Salt evaporator, Sand, Sand dunes, Sea, Settling ponds, Swamp, Vegetation Void, Water body void and Watercourse

Related chapters

Section 1 chapters 3.2, 3.7 and 3.8.1 Section 3 chapters 5.11.2 and 5.12 Appendix H

TRANSITION POINT

The point where a road or railway enters a tunnel.

| Minimum Siz | e for Inclus | sion | | Scales | Feature Usage | |
|----------------------------|------------------------|-----------------|----------------|------------------------------|--------------------|--|
| Dimens | Dimensions Area (sq m) | | sq m) | 1:250 000 Map & | | |
| Length | Height | 100K | 250K | 1:100 000 | | |
| | | | | | | |
| | _ | | | _ | | |
| Spatial objec | t | | | | | |
| Represent | tation | | Point | | | |
| Planimetri | c Accuracy | | 100 / 40 | | | |
| Feature co | | | transitio | n_p | | |
| Coverage | (see Section | on 3 chapter | 4) 5 | | | |
| | | | | | | |
| Data Attribut | | | | | | |
| GEODATA an | <u>ia working c</u> | <u>database</u> | | | | |
| | | | | | | |
| Norking datal | base only | | | | | |
| _ | - | 4 5 DI | | | | |
| SYMBOL (syr Symbol numb | | | | | | |
| 290 | , , | | | | | |
| EATURE WI | IDTH (feat_ | wid) [Floatir | ng point; 8,10 | 0,F,4] Currently not used by | symbology; | |
|) | | | | | | |
| | | on) [binary; | 4,5,B] Orien | tation in whole degrees fron | n East going anti- | |
| clockwise; 0 - | 360 | | | | | |
| General Note | es. | | | | | |
| See Railway t | unnel and F | Road tunnel. | | | | |
| GEODATA | | | | | | |
| | | | | | | |
| | | | | | | |
| Мар | | | | | | |
| | | | | | | |
| Data rules | | | | | | |
| Francition noi | nte only and | near on lines | ir tunnels an | d not on point tunnels | | |

Transition points cannot overlap Lakes, Reservoirs, Watercourse areas, Canal areas or Sea.

Transition points must be coincident with a node on the railway or road to which they relate.

Related features

Railway, Railway tunnel, Road, Road tunnel

Related chapters

Section 3 chapters 5.9 and 5.11.2

TROPIC OF CAPRICORN

The parallel of latitude 23°26.5'S.

| Mi | nimum Siz | e for Inclus | sion | | _ Scales | Feature Usage |
|----------|--------------|---------------|-----------------|-----------------|--------------------------|--|
| | Dimens | sions | Area (| sq m) | 1:250 000 | Мар |
| | Length | Height | 100K | 250K | 4 1:100 000 | |
| | | | | | J | |
| Sp | atial objec | t | | | | |
| | Dannara | | | Ola a ira | | |
| | Represent | | | Chain | | |
| | | c Accuracy | | 1/1 | | |
| | Feature co | | n 3 chapter | tropic_ca | ıp | |
| | Covolago | (000 000 | n o onaptor | ., [0 | L | |
| Da | ta Attribut | es | | | | |
| | | nd working d | latabase | | | |
| | | | | | | |
| | | | | | | |
| <u>W</u> | orking datal | base only | | | | |
| SY | MBOL (syr | mbol) [binary | y; 4,5,B] | | | |
| | mbol numb | er applicabl | le: | | | |
| 66 | | | | | | |
| | | | character; 3 | 80,30,C] Desc | riptive note to appear o | on map; TROPIC OF |
| CA | PRICORN | | | | | |
| Ge | neral Note | s | | | | |
| | | | | | | |
| GE | ODATA | | | | | |
| | | | | | | |
| Ма | q | | | | | |
| _ | - | Capricorn w | vill be labelle | ed 'Tropic of C | Capricorn' close to the | east and west edges of any |
| | p on which | | | | | |
| | | | | | | erprints the feature. The sses the feature. (Note: |
| | | | | | I be complete in the da | |
| | | | | | | |
| Da | ta rules | | | | | |
| | | | | | | |
| Re | lated featu | ıres | | | | |
| | | | | | | |
| | | | | | | |

Related chapters

VEGETATION LINE

A line depicting the boundary of a vegetation polygon.

| Minimum S | Size for Inclu | sion | | Scales | Feature Usage |
|---|---|--|----------------|------------------------------|---------------|
| Dime | ensions | Area | (sq m) | 1:250 000 | GEODATA |
| Length | Height | 100K | 250K | & 1:100 000 | <u> </u> |
| | | | | | |
| Spatial obj | ect | | | _ | |
| Repres | entation | | Chain | | |
| | etric Accuracy | | 100 / 40 | | |
| Feature | code | | veg_l | | |
| Covera | ge (see Section | on 3 chapte | r 4) t | | |
| DATA QUA Section 1 c <tile-id>1 UNIQUE FI Section 1 c</tile-id> | and working on LITY POINTE hapter 3.5 and | ER (q_info) d Section 3 NTIFIER (uf d Section 3 | chapter 5.14); | ,C] Pointer to attribute and | |
| General No | otes | | | | |
| | | | | | |
| GEODATA | | | | | |
| | | | | | |
| Мар | | | | | |

Data rules

Vegetation lines will bound Woody vegetation, Mangrove, Orchard or vineyard, Plantation, Rainforest and Vegetation void polygons.

Vegetation lines must be coincident with the following features if they fall within 50m at 1:250 000 and 20m at 1:100 000 or if the area created between the boundaries of these features and the vegetation line is less than 62 500 sq m at 1:250 000 and 10 000 sq m at 1:100 000:

Built-up area lines

Building lines

Cultural Area Lines

Offshore lines

Relief area lines where they surround open cut, sand & dunes.

Waterlines where they bound Reservoirs, Settling ponds, Salt evaporators, Sea, Lakes and Perennial Watercourse areas.

Sea wall.

Aircraft facility lines.

Related features

Aircraft facility line, Built-up area line, Building line, Woody vegetation, Mangrove, Offshore line, Orchard or vineyard, Plantation, Rainforest, Relief area line, Sea Wall, Vegetation void and Waterline

Related chapters

Section 2 chapter 2.2.3

Section 3 chapter 5.11.2

VEGETATION VOID

An area of land with less than 10% foliage cover of trees or scrub.

Minimum Size for Inclusion

| Dimens | sions | Area (sq m) | | |
|--------|--------|-------------|---------|--|
| Length | Height | 100K | 250K | |
| | | 40 000 | 250 000 | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | veg_void | |
| Coverage (see Section 3 chapter 4) | t | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

O

General Notes

The feature will be used for cleared areas within Woody vegetation, Mangrove, Orchard or vineyard, Plantation and Rainforest polygons. When used for this purpose the minimum size will be 250 000 square metres at 1:250 000 scale and 40 000 square metres for 1:100 000 scale.

This feature will also complete voids in vegetation left by Lakes, Perennial watercourses, Built-up areas, Open cut mines, Runways, Dunes, Aircraft facilities, Airport areas, Reservoirs, Canal areas, Sewage ponds, Salt evaporators, salt pans, claypans and other features which have low tree or shrub coverage. When used for this purpose the minimum size will be that of the feature that creates the void. For example 62 500 sq m at 1:250 000 and 10 000 sq m at 1:100 000 if the void is created by a new lake.

GEODATA

| Мар | | | |
|-----|--|--|--|
| | | | |

Data rules

Vegetation voids will be bounded by a Vegetation line.

Vegetation voids cannot overlap;

Other vegetation coverage polygons or Sea.

Related features

Tile edge and Vegetation line

Related chapters

Section 1 chapter 3.8.2

WATER BODY VOID

A void in a water body polygon.

Minimum Size for Inclusion

| Dimen | Dimensions | | (sq m) |
|--------|------------|-------|--------|
| Length | Height | 100K | 250K |
| | | 10000 | 62500 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | w_body_void | |
| Coverage (see Section 3 chapter 4) | W | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>5

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

This feature will be used for islands in the mainland.

GEODATA

Map

Data rules

Water body voids will be bounded by a Waterline feature.

Water body voids can not overlap other water body area coverage polygons or Sea.

Related features

Locality, Tile edge and Waterline

Related chapters

Section 1 chapters 3.8.2 and 3.8.5 Section 3 chapter 6.3

WATER TANK

A feature constructed on or below the ground for the storage of water.

Minimum Size for Inclusion

| Dimens | sions | Area | (sq m) |
|--------|--------|------|--------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | tank_dam_p | |
| Coverage (see Section 3 chapter 4) | Х | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Water tank's name – for 100K use only.

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The Water tank's name –for 250K use only.

SYMBOL (symbol) [binary; 4,5,B]

Symbol number applicable:

86

0 – Non-printing in close proximity to a populated place.

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

This feature will not be shown in densely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' regardless of whether it was shown on/in the base material/digital data. Refer to Appendix C for more information on when to capture this feature.

At 1:100 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to all feature occurrences.

At 1:250 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Water tanks larger than 140625 sq. m at 1:250 000 or 22500 sq. m at 1:100 000. will be shown as a Reservoir feature.

This feature may represent a group of tanks.

Where a Water tank and Windpump are situated together, only the Windpump, which has the greater landmark value, will be shown. (Refer feature Windpump).

GEODATA

Map

Names will be shown in sparsely settled areas.

As the density of the cultural detail increases, names will be progressively omitted.

Water Tanks to have an accompanying descriptive note e.g.: aquarium for features not being used directly for human or livestock consumption.

Where a bore and a water tank are situated together, both will be included in the data but only the water tank will be shown as it usually has the greater landmark value. Bore should be symbolised to 0 (non - printing).

Water Tanks plotted within 2.5 mm at map scale of a populated place will be symbolised to 0 (non-printing).

Data rules

Water tanks can not overlap Reservoirs, Building area, Watercourse areas, Canal areas or Sea.

Related features

Bore, Dam, Landmark point, Reservoir, Storage tank, Waterpoint and Windpump

Related chapters

Appendix C

WATERCOURSE

A natural channel along which water may flow from time to time.

Minimum Size for Inclusion

| Dimens | ions | Area (| sq m) |
|--------|--------|--------|--------|
| Length | Height | 100K | 250K |
| 10 mm | | 100000 | 625000 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | Polygon |
|------------------------------------|--------------|--------------|
| Planimetric Accuracy | 100 / 40 | 9999 / 9999 |
| Feature code | watercours_l | watercours_a |
| Coverage (see Section 3 chapter 4) | d | w |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Watercourse name

PERENNIALITY (perennial) [integer; 1,1,I] Code for perenniality;

- 1 Perennial
- 2 Non-perennial

HIERARCHY (hierarchy) [integer; 1,1,I] Importance of associated watercourse

- 1 Major
- 2 Minor

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>4 - feat_code "watercours_l"

<tile-id>5 - feat_code "watercours_a"

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B]

Symbol numbers applicable:

Lines (250K only):

92 - Major

940 - Minor

942 - Minor with direction of flow

922 - Major with direction of flow

Lines (100K only):

91 – Major Non Perennial

92 - Major Perennial

940 - Minor Perennial

944 - Minor Non Perennial

Polygons (250K & 100K);

10 - Perennial

11 - Non perennial

0 - Containing linear braided watercourses.

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Watercourses shown as double line streams on the latest previous edition map or compilation material at the comparable scale will be shown as polygons. Other watercourses will be shown as polygons where they are wider than 1 mm at scale and meet the area criteria.

The perenniality and hierarchy of Watercourses will be classified according to Appendix D - Inland water features guide where the watercourse is shown on the guide. Perenniality of watercourses not on the guide will be non-perennial unless there is strong evidence to the contrary. Watercourse not shown on the guide will be classified as minor-non perennial except for tidal watercourses in mangrove. Once a watercourse enters or bounds a mangrove, that watercourse will become perennial and then remains perennial from that point to the coastline.

A watercourse may be classified on the guide as perennial but shown as an area with one or more channels running down its length. The channels will be coded as perennial watercourse lines and the watercourse areas will be coded as non-perennial watercourse areas. In this situation a channel may at times be in close proximity to or coincident with the waterline that defines the edge of the watercourse area. Both the linear and area instances will be coded as major. See GEODATA notes for the handling of braided streams.

Braided streams fall into two categories; those that flow within clearly defined primary banks and those that don't. There is slightly different handling of each category. Section 3 chapter 6.9.4 shows the handling of braided streams lying in primary banks

GEODATA

For braided streams within clearly defined primary banks all channels will carry the name and perenniality of the Watercourse. All channels will have a planimetric accuracy of 9999. For Watercourses with hierarchy major the channel(s) identified in Appendix D will be coded as major. Remaining channels will have a hierarchy of minor. The area between the primary banks will be shown as a watercourse area.

For braided streams not in clearly defined banks, at least one channel will carry the name and perenniality of the watercourse. Other channels that form part of the watercourse should carry the name and perenniality. However, if it is unclear whether the channel is part of the named watercourse it should be left unnamed and follow the rules for watercourses not shown on Appendix D. For Watercourses with hierarchy major a contiguous channel will be coded as major. Where possible this channel will be an identifiable main channel. Where there is no identifiable main channel a channel will be selected which follows the general course of the stream and, where possible, links waterholes. Remaining channels will have a hierarchy of minor

Мар

At 1:250 000 symbols 922 and 942 will be used for the last chain of watercourses which dissipate and where the direction of flow may be unclear. The end node must be at the downstream end of the feature. No direction of flow arrow will be added when a watercourse symbol stops in a swamp, or where direction of flow can be reasonably determined from the interpretation of topography at 1:250 000.

The perenniality of single line watercourses will not appear on the map. The hierarchy of double line Watercourses will not be shown.

There is no polygon infill associated with a braided watercourse. Braided streams with a hierarchy of major will have only the channel coded as major shown with symbol 92 (major watercourse).

Data rules

Watercourses will have nodes at all intersections.

Watercourse lines cannot overlap Lake perennial, Reservoirs, Perennial Watercourse areas and Canal areas.

Perennial watercourse polygons cannot overlap Sea, Built-up areas, other waterbody coverage areas or vegetation coverage polygons (except voids).

Non-perennial watercourse polygons cannot overlap Sea, Built-up areas, other waterbody coverage areas or vegetation coverage polygons (except voids, Woody vegetation and Rainforest).

Watercourse polygons will be bounded by waterline features and may be bounded by Junction and Rapid area line features.

Related features

Canal, Connector, Flow Direction Arrow, Ford, Junction, Lake, Locality (gorge), Lock, Mangrove, Prohibited area line, Rapid, Rapid area line, Reserve line, Reservoir, Tile edge, Waterfall, Waterhole and Waterline

Related chapters

Section 1 chapters 3.8.3, 3.8.4, 3.8.8 and 3.9.1

Section 2 chapters 2.2.3 and 5.16

Section 3 chapters 5.7, 5.11.2, 6.9.1, 6.9.4 and 6.10

WATERFALL

A sudden descent of water over a step or ledge in the bed of a watercourse.

Minimum Size for Inclusion

| Dimer | sions | Area | (sq m) |
|--------|--------|------|--------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | fall_p | |
| Coverage (see Section 3 chapter 4) | d | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Waterfall's name

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable:

89 - printing

0 - where coincident with a cliff symbol

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Width of symbol in millimetres; minimum feature width is 1.

ORIENTATION (orientation) [binary; 4,5,B] Orientation in whole degrees from East going anticlockwise; 0 - 360

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

GEODATA

Map

Waterfalls will be symbolised except where the waterfall is associated with a symbolised cliff, in which case the Waterfall symbol will not be shown.

Whether or not they are symbolised Waterfalls are to have an accompanying descriptive note 'falls' or 'numerous falls' unless the word 'falls' or 'waterfall' is included in the name.

Data rules

Waterfalls must be coincident with a node on a watercourse chain or fall within a watercourse area.

Waterfalls cannot overlap;

Sea, Lakes, Canal areas or Reservoirs.

Related features

Cliff and Watercourse

Related chapters

Section 3 chapters 5.8, 5.9 and 5.11.2

WATERHOLE

A natural depression which holds water, within a non-perennial watercourse or a non-perennial lake.

Minimum Size for Inclusion

| Dimens | sions | Area (| sq m) |
|--------|--------|--------|-------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000 Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|-----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | waterhole | |
| Coverage (see Section 3 chapter 4) | d | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Waterhole's name

PERENNIALITY (perennial) [integer; 1,1,I] Code for perenniality;

1 - Perennial

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 81

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

This feature will be shown when it does not exceed 62500 sq m for 1:250 000 or 10000 sq m for 1:100 000. Features larger than these dimensions will be shown as lakes. (see Lakes and Waterpoints)

All waterholes will be classified as perennial.

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Map

Waterholes which are distinctive may have an accompanying descriptive note e.g: 'salt', 'billabong' unless the words 'salt', 'billabong' etc are included in the name.

Data rules

Waterholes must be coincident with a node on a Watercourse chain or fall within a Watercourse polygon.

Waterholes cannot overlap;

Sea, perennial Lakes or Reservoirs.

Related features

Connector, Lake, Watercourse and Waterpoint,

Related chapters

Section 3 chapters 5.11.2 and 6.9.4

WATERLINE

A line depicting the boundary of a hydrographic area feature.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|--------|-------------|------|
| Length | Height | 100K | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|-----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | waterline | |
| Coverage (see Section 3 chapter 4) | f | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14);

<tile-id>1 - in Framework layer

<tile-id>1 - in Waterbody layer, delimiting "lake" or "reservoir" <tile-id>4 - in Waterbody layer, not delimiting "lake" or "reservoir"

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol numbers applicable:

Note: The Waterline feature can bound various polygon types & will have its symbol number changed accordingly. The symbol numbers shown apply to Waterlines bounding the following features.

Line Polygon area symbol; bounded;

94 Definite boundary on Lake, watercourse area, canal area, coastline

 Coastline under cliff (non printing line)
 Subject to inundation (non printing line)

0 Mangrove flat (non printing line)

94 Reservoir

 Saline coastal flat (non printing line)

0 Swamp

(non printing line)

0 Marine swamp (non printing line) 114 Salt evaporator114 Settling pond

OLD UNIQUE FEATURE IDENTIFIER (old_ufi) [character; 10,10,C] UFI used for this feature in GEODATA TOPO-250K Series 1.x. Null for new features (see Section 3 chapter 5.15).

General Notes

When bounding sea and estuarine areas, the line is indicative of the position of mean high water. The exception is in Mangroves, where the line is indicative of the position of the seaward side of the mangroves.

The shoreline of lakes will be the line washed by the water when the feature is filled.

The shoreline of reservoirs formed by water impounded by dams or weirs will be shown at the top water level.

This feature is also used to depict the banks of a double line watercourse.

GEODATA

Map

Data rules

Waterlines will bound Canal, Island, Lake, Land subject to inundation, Mainland, Mangrove Flat, Marine swamp, Reservoir, Saline Coastal Flat, Salt evaporator, Sea, Settling pond, Swamp, Waterbody void and Watercourse polygons.

Waterlines bounding saline coastal flats and mangrove flats will be coincident with the waterline in the framework layer where the saline costal flat or mangrove abuts the sea.

Related features

Built-up area line, Canal, Cliff, Contour, Island, Lake, Land subject to inundation, Mainland, Mangrove flat, Marine swamp, Offshore line, Prohibited area line, Rapid, Reserve line, Reservoir, Saline coastal flat, Salt evaporator, Sea, Settling ponds, Swamp, Vegetation line, Water body void and Watercourse

Related chapters

Section 1 chapter 3.9

Section 2 chapter 2.2.3

Section 3 chapters 5.11.1, 5.11.2, 6.9.3 and 6.9.4

WATERPOINT

An isolated natural depression which holds water, not within Watercourses.

Minimum Size for Inclusion

| Dimens | Dimensions | | Area (sq m) | |
|--------|------------|------|-------------|--|
| Length | Height | 100K | 250K | |
| | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|------------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | waterpoint | |
| Coverage (see Section 3 chapter 4) | Х | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Waterpoint's name – for 100K use only

WATERPOINT CODE (waterpoint) [integer; 1,1,I] Code for the type of Waterpoint;

- 1 Native well
- 2 Gnamma hole
- 3 Soak
- 4 Rockhole
- 5 Pool

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The Waterpoint's name –for 250K use only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

This feature will not be shown in densely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' regardless of whether it was shown on/in the base material/digital data. Refer to Appendix C for more information on when to capture this feature.

At 1:100 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to all feature occurrences.

At 1:250 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

This feature will be shown when it does not exceed 62500 sq m for 1:250 000 or 10000 sq m for 1:100 000. Features larger than these dimensions will be shown as lakes. (see Lakes and Waterholes)

Indigenous sacred sites will not be named as sacred sites on the map even if named on a previous edition map, but the feature may be a lake, pool or waterhole in which case the appropriate map symbol and hydrological name will be used.

GEODATA

Map

Waterpoints are to have an accompanying descriptive note eg 'pool', 'soak' unless the words 'pool' or 'soak' etc are included in the name.

Data rules

Waterpoints can not overlap Sea, Watercourse line, Watercourse area, Lakes, Canal areas, Reservoirs or Building areas.

Related features

Lake, Spring, Water Tank and Waterhole

Related chapters

Appendix C

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

WHARF

A structure built from the land parallel to shore to provide for the berthing of vessels.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|---------------|--|-------------|------|
| Length Height | | 100K | 250K |
| 1 mm | | | |

Scales

| 1:250 000 |
|-----------|
| & |
| 1:100 000 |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Chain | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | wharf | |
| Coverage (see Section 3 chapter 4) | h | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

752

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

See also Jetty

GEODATA

Мар

Data rules

Wharves coincident with coastlines will be cloned to the Framework coverage as sea walls.

Related features

Breakwater, Jetty and Sea wall

Related chapters

Section 3 chapters 3.2.4 and 5.11.1

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

WINDBREAK

A narrow strip of natural or planted trees, or scrub, positioned so as to break the force of the prevailing wind.

Minimum Size for Inclusion Scales Feature Usage GEODATA & 1:250 000 **Dimensions** Area (sq m) Мар & 1:100 000 Length Height 100K 250K 5 mm Spatial object

Chain

100 / 40

windbreak

Data Attributes

Representation

Feature code

Planimetric Accuracy

GEODATA and working database

Coverage (see Section 3 chapter 4)

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 87

General Notes

At 1:250 000 Windbreaks shown on base Series 2 data will be retained, unless there Is clear evidence they no longer exist. No new Windbreaks will be added.

At 1:100 000 Windbreaks shown on the latest previous edition map and its related 'parent' 250K maps will be shown, unless there is clear evidence they no longer exist. Windbreaks will be added when they can be confirmed on imagery <u>and</u> on additional approved revision source material.

No distinction will be made between different types of trees. This feature does not include uncleared portions of road reserves or fauna protection corridors regardless of whether or not that feature is represented on the previous edition map or in the data.

| GEODATA | |
|---------|--|
| | |
| | |
| Мар | |
| | |

Data rules

Windbreaks cannot overlap;

Sea, Watercourse areas, Lakes, Canal areas, Reservoirs, Building areas, Sand areas, Open Cut areas or Sand dune areas.

Related features

Woody vegetation

Related chapters

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

WINDPUMP

A tower fitted with a wind-driven pump.

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | | |
|---------------|--|-------------|------|--|
| Length Height | | 100K | 250K | |
| | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | windpump | |
| Coverage (see Section 3 chapter 4) | Х | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Windpump's name – for 100K use only

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

NAME (name) [character; 50,50,C] The Windpump's name – for 250K use only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

434

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

This feature will not be shown in densely settled regions as defined by Appendix C 'Fence and Water Facilities Guide' regardless of whether it was shown on/in the base material/digital data. Refer to Appendix C for more information on when to capture this feature.

At 1:100 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to all feature occurrences.

At 1:250 000 in sparsely and moderately settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

Windpumps will be shown when the features are sufficiently prominent to serve as landmarks.

This feature will be used to represent the location of an individual windpump as well as groups of windpumps. A group of windpumps that cannot be shown individually may also be shown by a representative pattern.

GEODATA

Map

Windpumps will be named where named on the latest previous edition map.

Data rules

Windpumps cannot overlap Sea, perennial Watercourse areas, Lakes perennial, Canal areas, Reservoirs or Building areas.

Related features

Bore and Water tank

Related chapters

Appendix C

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

WOODY VEGETATION

An area of land with woody vegetation greater than 10% foliage cover (includes trees and shrubs).

Minimum Size for Inclusion

| Dimensions | | Area (sq m) | |
|------------|---------------|-------------|--------|
| Length | Length Height | | 250K |
| | | 40000 | 250000 |

Scales

| 1:250 000 | |
|-----------|--|
| & | |
| 1:100 000 | |

Feature Usage

GEODATA & Map

Spatial object

| Representation | Polygon | |
|------------------------------------|-------------|--|
| Planimetric Accuracy | 9999 / 9999 | |
| Feature code | forest | |
| Coverage (see Section 3 chapter 4) | t | |

Data Attributes

GEODATA and working database

COVER DENSITY (coverdensity) [integer; 1,1,I] Density of foliage coverage;

- 1 Sparse (Foliage coverage of 10-30%)
- 2 Dense (Foliage coverage of 30-70%)
- 3 Closed (Foliage coverage of 70%+)

GROWTH FORM (growthform) [integer; 1,1,I] The Majority Growth Form Type;

- 1 Tree
- 2 Tree Mallee
- 3 Shrub
- 4 Mallee Shrub
- 5 Heath Shrub
- 6 Chenopod Shrub
- 7 Other (unknown)

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>2

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable:

Polygons (250K only)

2

Polygons (100K only)

201 - Sparse

200 – Dense

2 – Closed

General Notes

This classification excludes mangroves, orchards, plantations and rainforest.

Size criteria will not apply where Woody vegetation completely covers small islands, i.e. such islands will have a matching Woody vegetation polygon.

GEODATA

Woody vegetation can overlap Built-up area.

Map

Woody vegetation will be masked for Built-up areas on the map

Data rules

Woody vegetation is bounded by a Vegetation line feature.

Woody vegetation cannot overlap;

Open Cut, Building area, Sand, Sand dunes, Aircraft facility polygons, Airport area, Canal area, Reservoirs, Rocky Outcrop, Settling ponds, Salt evaporators, Lake perennial, Watercourse area perennial, Mangrove Flat and Sea.

Related features

Mangrove, Orchard or vineyard, Plantation, Rainforest, Sand, Tile edge, Vegetation line and Windbreak

Related chapters

Section 3 chapter 6.2

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

WRECK

A disabled vessel, either submerged or visible, which is attached to, or foul of, the bottom or cast up on the shore.

Minimum Size for Inclusion

| Din | Dimensions | | Area (sq m) | | |
|-------|---------------|--|-------------|------|------|
| Lengt | Length Height | | | 100K | 250K |
| | | | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | wreck | |
| Coverage (see Section 3 chapter 4) | n | |

Data Attributes

GEODATA and working database

NAME (name) [character; 50,50,C] The Wreck's name

RELATIONSHIP (relationship) [Integer; 1,1,I] Code for relationship to sea level;

- 4 Bare
- 5 Tidal
- 6 Submerged

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable;

756 – Bare or Tidal

759 - Submerged

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology;

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 size and any other selection criteria apply to all feature occurrences.

At 1:250 000 size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data will be retained unless there is clear evidence they no longer exist.

All wrecks visible above water level and all those submerged wrecks which constitute a danger to shipping will be shown.

GEODATA

Map

Wrecks may be named and the date the vessel went aground may be included when it is of historical or general interest.

Data rules

Wrecks cannot overlap Building areas.

Related features

Related chapters

Section 2 Chapter 8.1, 9.1, 10 Section 3 chapter 3.2.4

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

YARD

A small area of land enclosed by a fence and generally used for confining stock.

Minimum Size for Inclusion

| Dimens | Dimensions | | sq m) |
|--------|---------------|--|-------|
| Length | Length Height | | 250K |
| | | | |

Scales

1:250 000 & 1:100 000

Feature Usage

GEODATA & Map

Spatial object

| Representation | Point | |
|------------------------------------|----------|--|
| Planimetric Accuracy | 100 / 40 | |
| Feature code | yard | |
| Coverage (see Section 3 chapter 4) | u | |

Data Attributes

GEODATA and working database

DATA QUALITY POINTER (q_info) [character; 8,8,C] Pointer to attribute and feature reliability (see Section 1 chapter 3.5 and Section 3 chapter 5.14); <tile-id>4

UNIQUE FEATURE IDENTIFIER (ufi) [character; 10,10,C] Alphanumeric feature identifier (see Section 1 chapter 3.4 and Section 3 chapter 5.14)

Working database only

SYMBOL (symbol) [binary; 4,5,B] Symbol number applicable: 433

0 – non-printing in close proximity to a bore or homestead

FEATURE WIDTH (feat_wid) [Floating point; 8,10,F,4] Currently not used by symbology; 0

ORIENTATION (orientation) [binary; 4,5,B] Currently not used by symbology; 0

TEXT NOTE (text_note) [character; 30,30,C] Descriptive note to appear on map

General Notes

At 1:100 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide', size and any other selection criteria apply to all feature occurrences.

At 1:250 000 this feature will only be shown in sparsely settled regions as defined by Appendix C 'Fence and Water Facilities Guide', regardless of whether it previously existed in the base Series 2 data. Size and any other selection criteria apply to new feature occurrences. All feature occurrences existing in the base Series 2 data in sparsely settled regions will be retained unless there is clear evidence they no longer exist.

Features greater than 390625 sq m for 1:250 000 scale and 62500 for 1:100 000 will be depicted using the feature Fence (see Fence).

GEODATA

Map

Yards that are within 2mm at map scale of a bore or homestead will be symbolised to 0 (non-printing)

Data rules

Yards cannot overlap Sea, Watercourse area perennial, Lakes perennial, Canal areas, Reservoirs or Building areas.

Related features

Fence

Related chapters

Appendix C

Note: See disclaimer in Appendix A chapter 1.1 regarding Related features and Related chapters

5. Secondary Table Dictionary

5.1 Data Quality Table

The Data Quality Table is a secondary table which holds data quality information about each feature instance in the data set. Each tile has one DQT, which has six fields.

COLUMNS

KEY FIELD

(Q_INFO) [CHARACTER; 8]

Value held in the foreign key attribute of the primary attribute tables.

FEATURE RELIABILITY (FEAT_REL) [DATE]

Date of satellite imagery, field verification or other event which verified the existence of the feature. For first production of Series 2 GEODATA see table in Section 1 chapter 4.3. Only month and year information are significant. The default will be the first of the respective month. If the month is not known then the default is 1 January of that year.

ATTRIBUTE RELIABILITY (ATT_REL) [DATE]

Date on which an attribute value of the feature was last verified. If one attribute of the feature is amended it is assumed that all attributes have been verified. For first production of Series 2 GEODATA see table in Section 1 chapter 4.3. The default will be the first of the respective month. If the month is not known then the default is 1 January of that year.

PLANIMETRIC ACCURACY (PLAN_ACC) [INTEGER; 4]

Standard deviation in metres of the position of the feature in horizontal coordinates. If a planimetric accuracy for the feature is not applicable relevant or cannot be reliably quoted then this field shall contain 9999.

ELEVATION ACCURACY (ELEV_ACC) [INTEGER; 4]

Standard deviation in metres of the accuracy of the elevation coordinates of the feature.

SOURCE AUTHORITY (SOURCE) [CHARACTER; 50]

Official name of the authority which originated the spatial object.

5.2 Tile Quality Information Table

The Tile Quality Information Table is a secondary table holding quality information about the data set in general. Each layer has attached its own copy of this table, which has eight fields.

COLUMNS

TILE NAME (TILE_NAME) [CHARACTER; 50]

TILE CODE OR MAP NUMBER (TILE_CODE) [CHARACTER; 10]

THEME (THEME) [CHARACTER, 20]

TECHNICAL SPECIFICATION / VERSION (TECH_SPEC) [CHARACTER; 20]

QUALITY CONTROL PASSED DATE (QC_PASSED) [DATE]

FORMAT CONVERSION SOFTWARE (FMT_CONV_SW) [CHARACTER, 30]

FORMAT CONVERSION DATE (FMT_CONV_DT) [DATE]

DATUM (DATUM) [CHARACTER, 30]

5.3 Tile Frequency Table

The Tile Frequency Table is a secondary table holding data quality information about the quantities of each feature class in a layer. Each layer has attached its own copy of this table, which has two fields. Note: the universe polygon will not be listed.

COLUMNS

FEATURE CLASS (FEAT_CODE) [CHARACTER; 12]

NUMBER OF FEATURE INSTANCES (FREQUENCY) [BINARY;4,5,B]

Examples of the contents held by Tile Quality Information table and the Tile Frequency table can be found in Appendix I.

5.4 Secondary Attribute Tables

Most of the attributes in GEODATA are 'encoded'. The Secondary Attribute Tables set out the meaning of the attribute codes.

The following secondary tables are required:

AUTHORITY

| authority [integer; 4] | description [character; 80] |
|------------------------|--|
| 0 | Not applicable |
| 1 | State/Territory National Parks and Wildlife Service or equivalent |
| 2 | Aboriginal and Torres Strait Islander Commission |
| 3 | Aboriginal Lands Trust |
| 4 | State Wildlife Authority |
| 5 | Local Government authority |
| 6 | Department of the Environment and Heritage |
| 7 | Department of Defence (Commonwealth) |
| 9 | State Forestry Commission |
| 10 | State/Territory Lands Department |
| 11 | Aboriginal Land Council |
| 12 | ACT Parks and Conservation Service |
| 13 | Other State or Federal Government organisations |
| 14 | Great Barrier Reef Marine Park Authority |
| 15 | State Department of Primary Industry |
| 16 | State Department of Water Resources/Public Works |
| 17 | Queensland Department of Family and Community Services and Aboriginal and Islander Affairs |
| 18 | Department of Natural Resources, Mines and Energy |
| 19 | Conservation and Land Management |
| 20 | Department of Indigenous Affairs |
| 9999 | Other (not specified) |

BUILDING

| 20.22.1.0 | |
|-----------------------|-----------------------------|
| building [integer; 1] | description [character; 20] |
| 1 | OPERATIONAL |
| 2 | RUIN |
| 3 | ABANDONED HOMESTEAD |

CLASSIFICATION

| class [integer; 1] | description [character; 20] |
|--------------------|-----------------------------|
| 0 | N/A |
| 1 | DUAL CARRIAGEWAY |
| 2 | PRINCIPAL ROAD |
| 3 | SECONDARY ROAD |
| 4 | MINOR ROAD |
| 5 | TRACK |

CONTOUR

| contour [integer; 1] | description [character; 20] |
|----------------------|--|
| 0 | N/A |
| 1 | STANDARD |
| 2 | DEPRESSION |
| 3 | CONNECTOR ON CLIFF/ CUTTINGS/ EMBANKMENT/ RAZORBACK |
| 4 | CONNECTOR STANDARD |
| 5 | INTERPOLATED CONTOUR |

COVER DENSITY

| coverdensity [integer; 1] | description [character; 10] |
|---------------------------|-----------------------------|
| 0 | N/A |
| 1 | SPARSE |
| 2 | DENSE |
| 3 | CLOSED |

FACILITY

| facility [integer; 1] | description [character; 20] |
|-----------------------|-----------------------------|
| 1 | AIRPORT |
| 2 | LANDING GROUND |
| 3 | HELIPORT |

FORMATION

| formation [integer; 1] | description [character; 20] |
|------------------------|-----------------------------|
| 0 | N/A |
| 1 | SEALED |
| 2 | UNSEALED |
| 3 | UNKNOWN |
| 4 | UNDER CONSTRUCTION |

FUNCTION

| facility [integer; 2] | description [character; 35] |
|-----------------------|----------------------------------|
| 0 | N/A |
| 1 | AMBULANCE STATION |
| 2 | AGED CARE FACILITY |
| 3 | COMMUNITY CENTRE |
| 4 | DAY CARE CENTRES / KINDERGARTENS |
| 5 | DOCTORS SURGERY |
| 6 | FIRE STATION |
| 7 | HISTORICAL BUILDING |
| 8 | HOSPITAL |
| 9 | PLACE OF WORSHIP |
| 10 | POLICE STATION |
| 11 | POWER STATION |
| 12 | PUBLIC HALL |
| 13 | REFINERY |
| 14 | SCHOOL |
| 15 | EMERGENCY SERVICES CENTRE |
| 16 | SHOPPING CENTRE |
| 99 | OTHER OR FUNCTION UNKNOWN |

GAUGE

| gauge [integer; 1] | description [character; 20] |
|--------------------|-----------------------------|
| 0 | N/A |
| 1 | STANDARD |
| 2 | BROAD |
| 3 | NARROW |
| 4 | OTHER |
| 5 | UNKNOWN |
| 6 | STANDARD-BROAD |
| 7 | STANDARD-NARROW |

GROWTH FORM

| growthform [integer; 1] | description [character; 20] |
|-------------------------|-----------------------------|
| 0 | N/A |
| 1 | TREE |
| 2 | TREE MALLEE |
| 3 | SHRUB |
| 4 | MALLEE SHRUB |
| 5 | HEATH SHRUB |
| 6 | CHENOPOD SHRUB |
| 7 | OTHER (UNKNOWN) |

HIERARCHY

| hierarchy [integer; 1] | description [character; 15] |
|------------------------|-----------------------------|
| 0 | N/A |
| 1 | MAJOR |
| 2 | MINOR |

LOCALITY

| locality [integer; 2] | description [character; 25] |
|-----------------------|-----------------------------|
| 1 | BAY-INLET-COVE |
| 2 | BEACH |
| 3 | CAPE-HEADLAND-POINT |
| 4 | HOMESTEAD |
| 5 | ROAD JUNCTION |
| 6 | MOUNTAIN-PEAK-HILL |
| 7 | PASS |
| 8 | POPULATED PLACE |
| 9 | WATERBODY ISLAND |
| 10 | PLACE NAME |
| 11 | GORGE |
| 12 | CEMETERY |

PARK

| park [integer; 2] | description [character; 20] |
|-------------------|-----------------------------|
| 0 | N/A |
| 1 | GARDEN |
| 2 | RECREATION AREA |
| 3 | GOLF COURSE |
| 4 | RACECOURSE |
| 5 | OVAL |
| 6 | MULTIPLE USE |
| 7 | CIVIC SQUARE |
| 8 | SHOWGROUND |
| 9 | RIFLE RANGE |
| 10 | OTHER |

PERENNIALITY

| perenniality [integer; 1] | description [character; 15] |
|---------------------------|-----------------------------|
| 0 | N/A |
| 1 | PERENNIAL |
| 2 | NON PERENNIAL |

PLANTING TYPE

| type [integer; 1] | description [character; 40] |
|-------------------|----------------------------------|
| 1 | SOFTWOOD |
| 2 | HARDWOOD |
| 3 | VINEYARD |
| 4 | COFFEE |
| 5 | BANANAS |
| 6 | TREE NUTS |
| 7 | OTHER ORCHARD TYPE (unspecified) |

POINT DETERMINATION

| point [integer; 1] | description [character; 40] |
|--------------------|-----------------------------------|
| 1 | SPOT HEIGHT |
| 2 | SPOT HEIGHT IN DEPRESSION |
| 3 | SPOT HEIGHT ON SAND RIDGE |
| 4 | SPOT HEIGHT CAPTURED FROM CONTOUR |

PRODUCT

| product [integer; 1] | description [character; 15] |
|----------------------|-----------------------------|
| 1 | WATER |
| 2 | GAS |
| 3 | OIL |
| 4 | GAS AND OIL |
| 5 | OTHER |
| 6 | UNKNOWN |

REEF

| reef [integer; 1] | description [character; 15] |
|-------------------|-----------------------------|
| 1 | REEF-CAY |
| 2 | SHOAL-BANK-PATCH |

RELATIONSHIP

| relationship [integer; 1] | description [character; 20] |
|---------------------------|-----------------------------|
| 0 | N/A |
| 1 | ELEVATED |
| 2 | ABOVE GROUND |
| 3 | UNDERGROUND |
| 4 | BARE |
| 5 | TIDAL |
| 6 | SUBMERGED |

SOURCE

| source [integer; 1] | description [character; 40] |
|---------------------|-----------------------------|
| 1 | PRINTED MAP |
| 2 | COMPILATION MATERIAL |
| 3 | DIGITAL TOPOGRAPHIC DATA |

STATE/ TERRITORY

| state [integer; 1] | Description [character; 3] |
|--------------------|----------------------------|
| 0 | N/A |
| 1 | ACT |
| 2 | JBT |
| 3 | NSW |
| 4 | NT |
| 5 | QLD |
| 6 | SA |
| 7 | TAS |
| 8 | VIC |
| 9 | WA |

STATUS

| status [integer; 1] | description [character; 20] |
|---------------------|-----------------------------|
| 1 | OPERATIONAL |
| 2 | ABANDONED |
| 3 | UNDER CONSTRUCTION |

TRACKS

| tracks [integer; 1] | description [character; 10] |
|---------------------|-----------------------------|
| 1 | ONE |
| 2 | MULTIPLE |
| 3 | UNKNOWN |

WATERPOINT

| waterpoint [integer; 1] | description [character; 20] |
|-------------------------|-----------------------------|
| 0 | N/A |
| 1 | NATIVE WELL |
| 2 | GNAMMA HOLE |
| 3 | SOAK |
| 4 | ROCK HOLE |
| 5 | POOL |

6. Symbol Dictionary

6.1 Symbols

Symbols are arranged in alphanumeric order by symbol number. The same number may be used for different symbols provided they have different spatial object types.

Hot spots and orientation are given for point symbols. The hot spot is the location on the symbol of the point feature in the database which the symbol represents. Where a value is given for orientation, the example in the symbol dictionary is aligned in that orientation. Where no value is given the orientation is not used for that feature and it is shown in the default orientation of 0.

For chain features the symbol is the length of the feature and centred on the feature unless otherwise stated.

Measurements follow these conventions: for Point symbols the measurement will be to the outer boundary of the symbol unless otherwise indicated; for Chains measurements will be from line centre to line centre for spacing ticks etc and from line centre to the edge for tick lengths and verges. Both conventions for chains will be unless otherwise indicated.

Screen angles will be measured in a clockwise direction from horizontal.

Samples of screens referenced are given in the following section.

| | | | | All measurements are in mm |
|---------------|--------------|--|------------------------|---|
| | | | | Screen: LINE/PATTERN/DOT_%_ANGLE_LPI_COLOUR eg: Screen: LINE_25_45_41_RED 485 |
| Sym Number | ibol Type | Feature | Description | Symbol colour is Black unless otherwise specified |
| 10 | Polygon | Lake perennial Canal Watercourse perennial Reservoir Sea | Dot_20_105_150_ | Process Blue |
| 102 | Chain | Relief area line Bounding open cutr mining area | 0.15 | |
| 102 | Polygon | Open cut/ mining area | Scree | en: Dot_10_45_150_Black |
| 103 | Point | Gas well | 0.60mm | Hot spot at the centre of the circle |
| 106 | Point | Mine | 90° 0.15 1.75 | Hot spot |
| 11 | Point | Bore | 0.75mm Colour: Process | 0.15 Hot spot at the centre of the circle Blue |

All measurements are in mm

| Symbol Sy | Type | Feature | Description Symbol colour is Black unless otherwise specified |
|--|---------|--|---|
| 11 | Polygon | Lake non-perennial Watercourse non-perennial | Screen: Equivalent to Screen Random Dot 1 100% PROCESS BLUE |
| 114 | Chain | Waterline Bounding salt evaporator & settling pond Salt evaporator internal line Settling pond internal line | Colour: Process Blue |
| 14 | Polygon | Land subject to inundation | A minimum of two lines will be included in each polygon. Sufficient lines will be included in small polygons to indicate their shape. 0.095 Note: The horizontal line will be broken by a line screen at 45°. Pattern_100%_ Process Blue Equivalent to Screen SMW-4 |
| 170 | Chain | Built-up area line Bounding Rubbish tip | 0.75 0.25 |
| 183 | Chain | Conveyor | 0.75 0.25 |
| 2 | Polygon | Woody Vegetation All 250K or Closed (100K) | Screens: Dot_15%_60_150_Green PMS 347 Dot_30%_90_150_Process Yellow |
| 20 | Chain | Ferry route | 0.75 0.25 |
| 200 | Polygon | Woody Vegetation Dense | Pattern Screen: DW-10 Screens: Dot_15%_60_150_Green PMS 347 Dot_30%_90_150_Process Yellow |
| 201 | Polygon | Woody Vegetation Sparse | Pattern Screen: DW-9 Screens: Dot_15%_60_150_Green PMS 347 Dot_30%_90_150_Process Yellow |
| 205 | Chain | Railway and Road Tunnel | 0.75 0.3 0.1 mm lineweight |
| 206 | Chain | Railway Single | 0.10 0.25 Cross ties at 90° to the line and centred on the line |
| 208 | Chain | Railway <i>Light</i> | 0.05 0.15 Cross ties at 90° to the line and centred on the line |

All measurements are in mm

| Sym Number | bol Type | Feature | Description Symbol colour is Black unless otherwise specified |
|---------------|-------------|--|---|
| 209 | Chain | Railway <i>Abandoned</i> | Cross ties at 90° to the line and centred on the line Gaps centred between cross ties |
| 21 | Chain | Ford | $\sqrt{}_{0.25}$ $\sqrt{}_{0.75}$ 0.10 |
| 210 | Chain | Railway <i>Multiple</i> | 0.10 0.25 |
| 22 | Chain | Foot track | 1.75 0.25 |
| 22 | Polygon | Foreshore flat Sand | Screen: Equivalent to Screen Random Dot 1 Solid BROWN 471 |
| 222 | Point | Railway station | 1 mm Hot spot at the centre of the circle |
| 23 | Polygon | Saline coastal flat Salt evaporator Settling ponds | Screen: Equivalent to Screen Random Dot 1 100% PROCESS BLUE |
| 24 | Polygon | Park | Screen: Dot_80%_60_150_Green PMS 347 |
| 245 | Chain | Railway causeway Road causeway | If feat_wid is 0.15 or 0.25 the symbol is 0.5 wide and solid black. For other valid feat_wid values the symbol is 0.4 plus the value of feat_wid wide and the infill is the value of feat_wid wide and solid red PMS 485. |
| 25 | Point | Stock grid | 0.75 1.50 Hot spot at centre of square Road Orientation 0 |
| 25 | Polygon | Sand dunes | Screen: Equivalent to Screen Sand Dunes 1 100% BROWN PMS 471 |
| 250 | Chain | Road Dual carriageway | 0.15 Digital feature lies halfway between the two lines ——————————————————————————————————— |
| 251 | Chain | Road <i>Principal sealed</i> | 0.9 Colour: 100% Red PMS 485 |
| 252 | Chain | Road Under construction | Lineweight as per classification Colour: 100% Red PMS 485 |
| 253 | Chain | Road <i>Minor unsealed</i> | 0.25 2.3 Colour: 100% Red PMS 485 |

All measurements are in mm

Screen: LINE/PATTERN/DOT_%_ANGLE_LPI_COLOUR eg: Screen: LINE_25_45_41_RED 485

Symbol Feature Description Symbol colour is Black unless otherwise specified Number Type

| 254 | Chain | Road Vehicular track | 0.25 1.50 Colour: 100% Red PMS 485 |
|-----|---------|---|---|
| 255 | Chain | Road destination arrow (With Arrow) | 0.1 Start node End node |
| 256 | Chain | Road Secondary sealed | 0.6 Colour: 100% Red PMS 485 |
| 257 | Chain | Road <i>Minor sealed</i> | 0.4 Colour: 100% Red PMS 485 |
| 258 | Chain | Road Principal unsealed | |
| 259 | Chain | Road Secondary unsealed | 0.6 Colour: 100% Red PMS 485 |
| 26 | Point | Gate | Hot spot Road 1.50 Orientation 90 |
| 26 | Polygon | Building Building type: operational | 100% black |
| 260 | Chain | Railway bridge Road bridge | 0.6mm Unfill the lineweight of the road or railway symbol. Where the value of feat_wid is 0.15 or 025 the infill will be solid black. For other valid feat_wid values the infill will be solid red PMS 485. |
| 260 | Point | Railway bridge Road bridge | 0.6mm 45° Gap of the lineweight of the road or railway symbol. Orientation 0 |
| 265 | Chain | Feature Pointer | 0.1 1.0mm Start node End node |
| 266 | Chain | Railway Overpass | 0.2mm space on either side of inner rail symbol will mask all rail and road features which cross its path (measurement to be taken from edge of rail line symbol) Lineweight of the rail symbol (feat_wid). |
| 267 | Chain | Road Overpass | 0.2mm space on either side of inner road symbol lineweight of the road will mask all rail and road features which cross its path (measurement to be taken from edge of road line symbol) |

All measurements are in mm

| Syml Number | ool Type | Feature | Description | Symbol colour is Black unless otherwise specified |
|----------------|-------------|---|-----------------------|---|
| 268 | Chain | Foot bridge | 0.4mm 45° 0.20 | Digital feature |
| 27 | Point | Route marker - national | 0.15 | Route Number in black as annotation feature 1.5 Hot spot 1.2 |
| 28 | Point | Route marker - State | 2.5 | Route Number in black as annotation feature Hot spot Infill: Screen: DOT_20%_105_150_PROCESS BLUE |
| 281 | Point | Route marker - State (oversize) | 2.2 4.8 | Route Number in black as annotation feature Infill: Screen: DOT_20%_105_150_PROCESS BLUE |
| 281 | Chain | Pipeline above ground & elevated(not water) | | - 0.15 |
| 282 | Chain | Pipeline underground (not water) | 1.75 0.25 | - 0.15 |
| 290 | Point | Transition point On roads and railways | 0.15mm line, 180° arc | Hot spot Tunnel Road or railway Orientation 0 |
| 30 | Chain | Aerial Cableway | 0.75 | - 0.15 |
| 31 | Chain | Embankment | 0.6 0.50 | 0.4 Feature in database 0.20 Start node End node |
| 33 | Chain | Sand ridge | 0.25 lir screen | ne ed to Dot_60_90_150_BROWN PMS 471 |
| 4 | Polygon | Rainforest | | Screens: Dot_15_60_150_Green 347 Dot_30_90_150_Process Yellow with Line_solid_Green 347 Pattern: 0.9 0.9 0.09 0.09 0.09 0.09 0.09 0.09 |
| 40 | Point | Locality Locality code: Homestead & Building Significant (under size) | 0.6 | Hot spot at the centre of the square |
| 41 | Point | Building Building code: ruin | 0.15 0.6mm | Hot spot at the centre of the square |

All measurements are in mm

| Syml Number | ool Type | Feature | Description Symbol colour is Black unless otherwise specified |
|----------------|-------------|---|--|
| 42 | Chain | Lock Line & Road Destination Arrow (without arrow) | —————————————————————————————————————— |
| 420 | Point | Locality Locality code: populated place & place name | 1.2 Hot spot at the centre of the circle Red circle: Colour red PMS 485 Yellow fill: Colour Solid Process Yellow |
| 420 | Polygon | Builtup area | Screen: DOT_30_75_150_RED PMS 485 |
| 430 | Point | Building Building code: operational & abandoned homestead | 0.5 mm Hot spot at the centre of the square |
| 433 | Point | Yard | 1mm Hot spot at the centre of square 0.1 |
| 434 | Point | Windpump | 1.5mm Hot spot 1.4mm centre of base line to centre of cross 0.15 mm line |
| 45 | Chain | Road on dam | 0.15 Solid Red PMS 485 infill Spacing is dependent on road/rail width |
| 451 | Point | Locality Cemetery | 0.75mm Hot spot at the centre of the circle |
| 5 | Polygon | Orchard or Vineyard | 1.0 mm line centre to line centre Dot_40_90_150_Process Yellow with 0.05mm lines 100% Process Blue at 45 degrees |
| 50 | Point | Bench mark | 0.5 Hot spot at the centre of the circle |
| 501 | Point | Landmark | 0.75mm Hot spot at the centre of the circle |
| 51 | Point | Horizontal control point | 0.15 line and dot diameter 1.5 Hot spot at the centre of the dot within the triangle |
| 52 | Point | Spot elevation Locality Mountain-peak-hill & place name | 0.375mm Hot spot at the centre of the circle |

All measurements are in mm

| Sym Number | bol Type | Feature | Description Symbol colour is Black unless otherwise specified |
|---------------|-------------|--|--|
| 54 | Point | Kilometric distance indicator | 0.9mm Orientation 90 2.0mm Colour: Solid Red PMS 485 Hot spot at the end of line |
| 540 | Point | Powerline pylon | 0.25 0.16 0.4 |
| 541 | Chain | Powerline | —————————————————————————————————————— |
| 542 | Chain | Powerline (100K only) | 0.5mm t Colour: Reflex Blue 1.0mm |
| 55 | Chain | Contour Index standard | Colour: Solid PMS 471 |
| 56 | Chain | Contour Standard | Colour: Solid PMS 471 |
| 57 | Chain | Contour Index depression | 0.2 Colour: Solid PMS 471 Start node End node |
| 573 | Chain | Grid line Standard | Colour: Solid Process Blue |
| 574 | Chain | Grid line 100 000 m @ 250K 10 000m @ 100K | Colour: Solid Process Blue |
| 575 | Chain | Graticule line | |
| 58 | Chain | Contour Standard Depression | 0.15 1 0.3 ticks at 90° to line 4 0.1 Colour: Solid PMS 471 Start node End node |
| 59 | Chain | Auxiliary Contour | 0.8 Colour: Solid PMS 471 |
| 6 | Polygon | Plantation All features at 250K & Softwood (100K only) | Screens: Dot_40%_90_150_Process Yellow with Pattern_solid_Process Blue Pattern equivalent to Screen MP-2 |
| 60 | Chain | Building & Cultural Area line Bounding ruin Built-up area line Bounding cemetery | |
| 600 | Polygon | Plantation Hardwood (100K only) | Screens: Dot_40%_90_150_Process Yellow with Pattern_solid_Process Blue Pattern equivalent to Screen Hardwood |

All measurements are in mm

| Sym Number | ibol Type | Feature | Description | Symbol colour is Black unless otherwise specified |
|---------------|--------------|--|---|--|
| 62 | Chain | Boundary - International | 1.50 6.25 | 0.5 |
| 63 | Chain | Cultural Area Line Bounding Landmark Area | 0.3 | 0.1 mm lineweight |
| 64 | Chain | Prohibited area line Single boundary | 1.25 3.75 0.25 | 0.3 Black Start node End node Screen: Dot_40_45_150_Reflex Blue |
| 641 | Chain | Prohibited area line Dual boundary | 1.5 mm / 1.25 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 0.3 Black he boundary Screen: Dot_40_45_150_Reflex Blue |
| 65 | Chain | Reserve line Single boundary | | 0.25 Green solid Pantone 347 0.75 60_150_GREEN 347 End node Start node |
| 66 | Chain | Tropic of Capricorn | / _{0.25} \ / _{1.75} \ - 0 | 1.15 |
| 68 | Chain | Reserve line Dual boundary not coincident with a symbolised feature | 1.5 Solid green line on the | ereen: Dot_40_60_150_GREEN 347 ——————————————————————————————————— |
| 681 | Chain | Reserve line Dual boundary coincident with a symbolised feature | 0.75 Note: solid green line on the | O.25 Green solid Pantone 347 Half width of symbolised feature plus 0.15mm he boundary |
| 7 | Polygon | Mangrove | Dot_45 Dot_40 | %_105_150_ Process Blue %_90_150_ Process Yellow |
| 70 | Chain | Jetty | Coast 0.3 x le | ngth to scale |
| 700 | Polygon | Aircraft Facility Polygon Airport and Landing Ground | Dot_30 | %_45_150_ Reflex Blue |
| 701 | Point | Aircraft facility Point Airport | 0.4 | Hot spot at the centre of the circle Colour: Reflex Blue |
| 702 | Chain | Aircraft facility line | | 0.15 Colour: Reflex Blue |

All measurements are in mm

| Sym Number | ibol Type | Feature | Description Symbol colour is Black unless otherwise specified |
|---------------|--------------|--|---|
| 703 | Point | Aircraft facility Point Landing ground | 0.3 Hot spot at the centre of the circle Orientation 0. Colour: Reflex Blue |
| 706 | Chain | Runway centre line | 0.4mm Colour: Reflex Blue |
| 708 | Point | Aircraft facility Point Heliport | Hot spot at the centre of the circle Line weight for vertical bars of H 0.4mm, Line weight for horizontal bar of H 0.3mm, Height of H 1.75 mm, Width of H 1.42mm Crossbar halfway up uprights, centre of crossbar at centre of circle. |
| 709 | Chain | Taxiway | 0.30 Colour: Reflex Blue |
| 71 | Chain | Sea wall | 0.30 |
| 72 | Point | Lighthouse | 1.5 Hot spot at the centre of the circle |
| 73 | Point | Spring | 0.15 Hot spot at the centre of the circle Orientation 0 Color: Process Blue |
| 751 | Chain | Breakwater | |
| 752 | Chain | Wharf | 0.3 |
| 753 | Point | Dry dock | 1.0mm Hot spot 0.1 Orientation 0 |
| 754 | Point | Lock | 0.15 River Point faces upstream 1.0 Orientation 90 |
| 755 | Chain | Boatramp | 0.2 Coast 0.2 0.2 In water Out of water |
| 756 | Point | Wreck Bare or Tidal | Hot spot at centre of circle at base of symbol radius of arc 0.29 Hot spot at centre of circle at base of symbol 0.10 Arc for measurement only, not part of symbol 0.5 |

All measurements are in mm

| Sym Number | ibol Type | Feature | Description | Symbol colour is Black unless otherwise specified |
|---------------|--------------|--|--|---|
| 759 | Point | Wreck Submerged | 0.6mm | Hot spot at centre of symbol 0.8mm 0.10 mm lineweight |
| 80 | Chain | State border | 0.75 | 3 |
| 801 | Point | Storage Tank | 0.75mm | Hot spot at centre of circle |
| 81 | Point | Waterhole | 0.75mm | Hot spot at centre of circle Color: Process Blue |
| 82 | Point | Waterpoint | 0.75mm | Hot spot at centre of circle Color: Process Blue |
| 84 | Point | Pinnacle | 0.5 | 0 mm Hot spot at the centre of the circle |
| 86 | Point | Water tank | 0.75mm | Hot spot at centre of square Color: Solid Process Blue |
| 87 | Chain | Windbreak | | 0.3 Colour: Green PMS 347 |
| 881 | Chain | Rapids On major watercourse chain | 0.15 45° | Arrows point downstream Start node 1 mm Color: Process Blue |
| 881 | Polygon | Rapids On perennial watercourse polygon | Sc | Dot_20_105_150_Process Blue Orandom pattern equivalent to creen Random Dot 1 (negative screen) terline |
| 882 | Chain | Rapids On minor watercourse chain | 0.15 45° | Arrows point downstream Start node 1 mm Colour: Solid Process Blue |
| 89 | Point | Waterfall | 1mm except on waterc to be set so the ends of beyond the banks of th | Color: Process Blue Orientation 0 Ourse polygon feat_wid of the line extend 0.5mm e watercourse |

All measurements are in mm

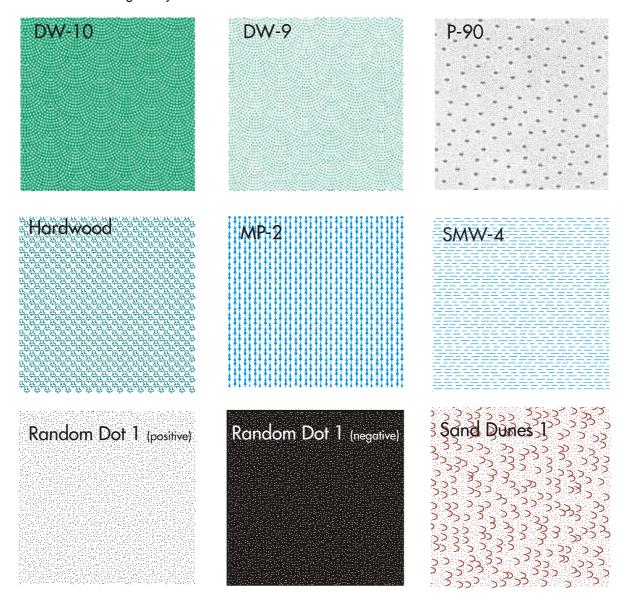
| Symb Number | ool Type | Feature I | Description Symbol colour is Black unless otherwise specified |
|----------------|-------------|---|--|
| 90 | Chain | Relief area line Bounding a crater & distorted surface | 0.75 0.30 |
| 90 | Polygon | Distorted surface Rocky outcrop | Screen: Dot_15_90_150 Brown PMS 471 |
| 908 | Polygon | Swamp Marine Swamp | Screen: Pattern_100%_ Process Blue Equivalent of Screen P-90 At least one grass symbol is to fall in each polygon Color: Process Blue |
| 91 | Chain | Watercourse Hierarchy: Major (100K use only for Non-perennial features) | 0.20 |
| 912 | Chain | Relief area line Bounding Rocky outcrops | 0.10 |
| 92 | Chain | Watercourse Hierarchy: Major (250K no flow arrow & 100K use only for Perennial features) | 0.20 Color: Process Blue |
| 921 | Chain | Levee | 0.5 cross ticks at 90° to the line and centre on the line 0.10 0.10 |
| 922 | Chain | Watercourse Hierarchy: Major with direction of flow | Arrowhead Start node End node 60° 0.10 1 mm Colour: Solid Process Blue |
| 923 | Chain | Cutting | (including outline) 0.8 0.25mm Feature in database 0.50 0.20 Start node End node |
| 924 | Chain | Cliff | 0.15 ticks at 90° to the line 1 mm Start node End node |
| 925 | Chain | Dam | 0.40 |
| 926 | Chain | Spillway | — 0.3 mm Color: Process Blue |
| 927 | Chain | Fence | 0.10 |

All measurements are in mm

| Symbol Number Type | | Feature | Description | Symbol colour is Black unless otherwise specified |
|-----------------------|---------|---|---|---|
| 929 | Chain | Razorback | 0.15 0.30 1 mm | ticks at 90° to the line |
| 94 | Chain | Waterline definite | 0. Color: Process Blue | 15 |
| 940 | Chain | Watercourse Hierarchy: Mnor (250K no flow arrow &100K used for Perennial features only.) | 0.15 Color: Process Blue | ; |
| 942 | Chain | Watercourse Hierarchy: Minor with direction of flow | 0.15 | Arrowhead 60° 0.10 1 mm Colour: Solid Process Blue |
| 944 | Chain | Watercourse Hierarchy: Minor (100K use only for Non-perennial features) | 0.3 4.0 \(\subseteq \text{L} - 0.15\) Color: Process Blue | 5 |
| 948 | Point | Flow Direction Arrow | 60° 150° Hot spot | Start node End node Arrowhead Colour: Solid Process Blue |
| 947 | Chain | Canal and Pipeline <i>Water</i> | | 0.25 Color: Process Blue |
| 95 | Chain | Offshore line Shoal | 0.25 | 1.75 Color: Process Blue |
| 96 | Point | Cave | 0.2 0.17 0.1 1.15 mm | mm - 0.46 mm 0.57 mm |
| 97 | Polygon | Reef Reef and Cay | | Screen: Dot_50_105_150_PROCESS BLUE |
| 98 | Point | Offshore rock Bare and/or Tidal | 60° | 1 mm Hot spot |
| 980 | Point | Offshore rock Submerged | 90° | 1 mm Hot spot |
| 99 | Chain | Seismic line | 0.25\ /1.75\ | - 0.15 |

6.2 Screens

The following representations of the screens were embedded in this document as a WMF graphic, a clearer view of these may occur through increasing the zoom factor of the document. They are supplied as an indication of the screen only, film or eps copies must be used when building the symbol libraries.



7. Cover Table Definitions

The following tables show the required attribute field definitions, including the column starting position for the tables as held in ARC/INFO coverages. A typical cover name has been shown as an example of how a normal working file would look.

Normal type: indicates standard ARC/INFO system coverage items.

Bold type: indicates items common to both <u>GEODATA and working database</u>.

Italic type: indicates items relevant to the Working database only.

7.1 1:250 000 TABLES

H5504AAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAM | ME INDEXED? |
|--------|-------------|-------|--------|------|-------|---------------|-------------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504AAD# | 4 | 5 | В | - | | - |
| 21 | H5504AAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | С | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | FACILITY | 1 | 1 | I | - | | - |
| 88 | Q_INFO | 8 | 8 | С | - | | - |
| 96 | UFI | 10 | 10 | C | - | | - |
| 106 | SYMBOL | 4 | 5 | B | - | | - |
| 110 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 118 | ORIENTATION | 4 | 5 | B | - | | - |
| 122 | OLD_UFI | 10 | 10 | C | - | | - |
| | | | | | | | |

H5504BAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504BAD# | 4 | 5 | В | - | | | - |
| 29 | H5504BAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | | - |
| 53 | UFI | 10 | 10 | C | - | | | - |
| 63 | SYMBOL | 4 | 5 | В | - | | | - |
| 67 | OLD_UFI | 10 | 10 | C | - | | | - |
| | | | | | | | | |

H5504BAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504BAD# | 4 | 5 | В | - | | | - |
| 21 | H5504BAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | С | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | PARK | 2 | 2 | I | - | | | - |
| 89 | Q_INFO | 8 | 8 | C | - | | | - |
| 97 | UFI | 10 | 10 | C | - | | | - |
| 107 | SYMBOL | 4 | 5 | В | - | | | - |
| 111 | TEXT_NOTE | 30 | 30 | C | - | | | - |
| 141 | OLD_UFI | 10 | 10 | C | - | | | - |
| | | | | | | | | |

H5504CAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504CAD# | 4 | 5 | В | - | | - |
| 29 | H5504CAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | ELEVATION | 7 | 7 | N | 2 | | - |
| 52 | CONTOUR | 1 | 1 | I | - | | - |
| 53 | Q_INFO | 8 | 8 | C | - | | - |
| 61 | UFI | 10 | 10 | C | - | | - |
| 71 | SYMBOL | 4 | 5 | В | - | | - |
| | | | | | | | |

H5504CAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAM | ME INDEXED? |
|--------|-------------|-------|--------|------|-------|---------------|-------------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504CAD# | 4 | 5 | В | - | | - |
| 21 | H5504CAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | ELEVATION | 7 | 7 | N | 2 | | - |
| 44 | Q_INFO | 8 | 8 | C | - | | - |
| 52 | UFI | 10 | 10 | C | - | | - |
| 62 | SYMBOL | 4 | 5 | B | - | | - |
| | | | | | | | |

H5504DAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504DAD# | 4 | 5 | В | - | | | - |
| 29 | H5504DAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | NAME | 50 | 50 | C | - | | | - |
| 95 | PERENNIAL | 1 | 1 | I | - | | | - |
| 96 | HIERARCHY | 1 | 1 | I | - | | | - |
| 97 | Q_INFO | 8 | 8 | C | - | | | - |
| 105 | UFI | 10 | 10 | C | - | | | - |
| 115 | SYMBOL | 4 | 5 | В | - | | | - |
| 119 | TEXT_NOTE | 30 | 30 | C | - | | | - |
| 149 | OLD_UFI | 10 | 10 | C | - | | | - |
| | | | | | | | | |

H5504DAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504DAD# | 4 | 5 | В | - | | | - |
| 21 | H5504DAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | PERENNIAL | 1 | 1 | I | - | | | - |
| 88 | Q_INFO | 8 | 8 | C | - | | | - |
| 96 | UFI | 10 | 10 | C | - | | | - |
| 106 | SYMBOL | 4 | 5 | В | - | | | - |
| 110 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 118 | ORIENTATION | 4 | 5 | В | - | | | - |
| 122 | TEXT NOTE | 30 | 30 | C | _ | | | - |

H5504EAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504EAD# | 4 | 5 | В | - | | | - |
| 21 | H5504EAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT CODE | 12 | 12 | С | - | | | - |
| 37 | ELEVATION | 7 | 7 | N | 2 | | | - |
| 44 | SOURCE | 1 | 1 | I | - | | | - |
| 45 | POINT | 1 | 1 | I | - | | | - |
| 46 | Q_INFO | 8 | 8 | С | - | | | - |
| 54 | UFI | 10 | 10 | С | - | | | - |
| 64 | SYMBOL | 4 | 5 | B | - | | | - |
| 68 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 76 | ORIENTATION | 4 | 5 | B | - | | | - |
| 80 | OLD UFI | 10 | 10 | C | - | | | - |
| | _ | | | | | | | |

H5504FAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NA | AME INDEXED? |
|--------|--------------|-------|--------|------|-------|--------------|--------------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504FAD# | 4 | 5 | В | - | | - |
| 29 | H5504FAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | - |
| 53 | UFI | 10 | 10 | C | - | | - |
| 63 | SYMBOL | 4 | 5 | B | - | | - |
| 67 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| 97 | OLD_UFI | 10 | 10 | C | - | | - |
| | | | | | | | |

H5504FAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504FAD# | 4 | 5 | В | - | | | - |
| 21 | H5504FAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | STATE | 1 | 1 | I | - | | | - |
| 88 | Q_INFO | 8 | 8 | C | - | | | - |
| 96 | UFI | 10 | 10 | C | - | | | - |
| 106 | SYMBOL | 4 | 5 | B | - | | | - |
| 110 | OLD_UFI | 10 | 10 | C | - | | | - |
| | | | | | | | | |

H5504GAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME INDEXED? |
|--------|-------------|-------|--------|------|-------|-------------------------|
| 1 | AREA | 8 | 18 | F | 5 | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | - |
| 17 | H5504GAD# | 4 | 5 | В | - | - |
| 21 | H5504GAD-ID | 4 | 5 | В | - | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | - |
| 37 | BUILDING | 1 | 1 | I | - | - |
| 38 | Q_INFO | 8 | 8 | C | - | - |
| 46 | UFI | 10 | 10 | C | - | - |
| 56 | SYMBOL | 4 | 5 | B | - | - |
| 60 | FEAT_WID | 8 | 10 | F | 4 | - |
| 68 | ORIENTATION | 4 | 5 | В | - | - |
| 72 | TEXT_NOTE | 30 | 30 | C | - | - |

| TTEEA | 4 TT A D | 2 2 177 | TABLE |
|-------|----------|---------|-------|
| HOOU | 4HAD | AAT. | TABLE |

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|--------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504HAD# | 4 | 5 | В | - | | - |
| 29 | H5504HAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | - |
| 53 | UFI | 10 | 10 | C | - | | - |
| 63 | SYMBOL | 4 | 5 | B | - | | - |
| 67 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| | _ | | | | | | |

H5504IAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504IAD# | 4 | 5 | В | - | | | - |
| 29 | H5504IAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | SYMBOL | 4 | 5 | В | - | | | - |

H5504IAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|--------------|-------|--------|------|-------|----------------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504IAD# | 4 | 5 | В | - | | - |
| 21 | H5504IAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | SYMBOL | 4 | 5 | B | - | | - |
| 41 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| 71 | BUILDING | 1 | 1 | I | _ | | _ |

H5504JAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE N | AME INDEXED |)? |
|--------|-------------|-------|--------|------|-------|-------------|-------------|----|
| 1 | FNODE# | 4 | 5 | В | - | | - | |
| 5 | TNODE# | 4 | 5 | В | - | | - | |
| 9 | LPOLY# | 4 | 5 | В | - | | - | |
| 13 | RPOLY# | 4 | 5 | В | - | | - | |
| 17 | LENGTH | 8 | 18 | F | 5 | | - | |
| 25 | H5504JAD# | 4 | 5 | В | - | | - | |
| 29 | H5504JAD-ID | 4 | 5 | В | - | | - | |
| 33 | FEAT CODE | 12 | 12 | С | - | | - | |
| 45 | Q INFO | 8 | 8 | С | - | | - | |
| 53 | UFI | 10 | 10 | С | - | | - | |
| 63 | SYMBOL | 4 | 5 | B | - | | - | |
| | | | | | | | | |

H5504KAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504KAD# | 4 | 5 | В | - | | - |
| 29 | H5504KAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | С | - | | - |
| 53 | UFI | 10 | 10 | С | - | | - |
| 63 | SYMBOL | 4 | 5 | В | - | | - |

H5504LAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | E INDEXED? |
|--------|--------------|-------|--------|------|-------|----------------|------------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504LAD# | 4 | 5 | В | - | | - |
| 21 | H5504LAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | LOCALITY | 2 | 2 | I | - | | - |
| 89 | Q_INFO | 8 | 8 | C | - | | - |
| 97 | UFI | 10 | 10 | C | - | | - |
| 107 | SYMBOL | 4 | 5 | B | - | | - |
| 111 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 119 | ORIENTATION | 4 | 5 | B | - | | - |
| 123 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| 153 | OLD_UFI | 10 | 10 | C | - | | - |
| | | | | | | | |

H5504MAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504MAD# | 4 | 5 | В | - | | - |
| 29 | H5504MAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | - |
| 53 | UFI | 10 | 10 | С | - | | - |
| 63 | SYMBOL | 4 | 5 | B | - | | - |
| 67 | TEXT_NOTE | 30 | 30 | C | - | | - |

H5504MAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504MAD# | 4 | 5 | В | - | | | - |
| 21 | H5504MAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | Q_INFO | 8 | 8 | C | - | | | - |
| 45 | UFI | 10 | 10 | C | - | | | - |
| 55 | NAME | 50 | 50 | C | - | | | - |
| 105 | SYMBOL | 4 | 5 | В | - | | | - |
| 109 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 117 | ORIENTATION | 4 | 5 | B | - | | | - |
| 121 | TEXT_NOTE | 30 | 30 | C | - | | | - |
| | | | | | | | | |

H5504NAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|------------|--------------|-------|--------|--------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504NAD# | 4 | 5 | В | - | | | - |
| 21 | H5504NAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | RELATIONSHIP | 1 | 1 | I | - | | | - |
| 88 | Q_INFO | 8 | 8 | C | - | | | - |
| 96 | UFI | 10 | 10 | C | - | | | - |
| 106 | SYMBOL | 4 | 5 | B | - | | | - |
| | FEAT WID | 8 | 10 | F | 4 | | | - |
| 110 | FEAI_WID | U | | | | | | |
| 110 118 | ORIENTATION | 4 | 5 | В | - | | | - |
| | _ | - | | B C | - | | | - |

H55040AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504OAD# | 4 | 5 | В | - | | | - |
| 29 | H5504OAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | | - |
| 53 | UFI | 10 | 10 | С | - | | | - |
| 63 | SYMBOL | 4 | 5 | B | - | | | - |
| 67 | OLD_UFI | 10 | 10 | C | - | | | - |
| | | | | | | | | |

H55040AD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|--------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504OAD# | 4 | 5 | В | - | | | - |
| 21 | H5504OAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | RELATIONSHIP | 1 | 1 | I | - | | | - |
| 88 | REEF | 1 | 1 | I | - | | | - |
| 89 | Q_INFO | 8 | 8 | C | - | | | - |
| 97 | UFI | 10 | 10 | C | - | | | - |
| 107 | SYMBOL | 4 | 5 | B | - | | | - |
| 111 | TEXT NOTE | 30 | 30 | C | - | | | - |
| 141 | OLD UFI | 10 | 10 | C | - | | | - |
| | _ | | | | | | | |

H5504PAD.AAT TABLE

| COLU | MN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|------|----|--------------|-------|--------|------|-------|-----------|------|----------|
| | 1 | FNODE# | 4 | 5 | В | - | | | - |
| | 5 | TNODE# | 4 | 5 | В | - | | | - |
| | 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 1 | .3 | RPOLY# | 4 | 5 | В | - | | | - |
| 1 | .7 | LENGTH | 8 | 18 | F | 5 | | | - |
| 2 | 5 | H5504PAD# | 4 | 5 | В | - | | | - |
| 2 | 9 | H5504PAD-ID | 4 | 5 | В | - | | | - |
| 3 | 3 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 4 | 5 | PRODUCT | 1 | 1 | I | - | | | - |
| 4 | 6 | RELATIONSHIP | 1 | 1 | I | - | | | - |
| 4 | 7 | Q_INFO | 8 | 8 | C | - | | | - |
| 5 | 5 | UFI | 10 | 10 | C | - | | | - |
| 6 | 55 | NAME | 50 | 50 | C | - | | | - |
| 11 | .5 | SYMBOL | 4 | 5 | В | - | | | - |
| 11 | 9 | $TEXT_NOTE$ | 30 | 30 | C | - | | | - |
| | | | | | | | | | |

H5504QAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504QAD# | 4 | 5 | В | - | | - |
| 29 | H5504QAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | - |
| 53 | UFI | 10 | 10 | C | - | | - |
| 63 | SYMBOL | 4 | 5 | В | - | | - |
| | | | | | | | |

H5504QAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME INDEXED? |
|--------|-------------|-------|--------|------|-------|-------------------------|
| 1 | AREA | 8 | 18 | F | 5 | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | - |
| 17 | H5504QAD# | 4 | 5 | В | - | - |
| 21 | H5504QAD-ID | 4 | 5 | В | - | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | - |
| 37 | Q_INFO | 8 | 8 | C | - | - |
| 45 | UFI | 10 | 10 | C | - | - |
| 55 | NAME | 50 | 50 | C | - | - |
| 105 | SYMBOL | 4 | 5 | В | - | - |
| 109 | TEXT_NOTE | 30 | 30 | C | - | - |

H5504RAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504RAD# | 4 | 5 | В | - | | - |
| 29 | H5504RAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | NAME | 50 | 50 | C | - | | - |
| 95 | TRACKS | 1 | 1 | I | - | | - |
| 96 | STATUS | 1 | 1 | I | - | | - |
| 97 | GAUGE | 1 | 1 | I | - | | - |
| 98 | Q_INFO | 8 | 8 | C | - | | - |
| 106 | UFI | 10 | 10 | C | - | | - |
| 116 | SYMBOL | 4 | 5 | B | - | | - |
| 120 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 128 | TEXT_NOTE | 30 | 30 | C | - | | - |
| 158 | OLD_UFI | 10 | 10 | C | - | | - |

H5504RAD.PAT TABLE

| COLIDA | T | LIT DOLL | OTTENTE | mu.D. | N DEG | 71 000 17 000 17 140 | TADDAMEDO |
|--------|-------------|----------|---------|-------|-------|----------------------|-----------|
| COLUMN | ITEM NAME | MTD.T.H | OUTPUT | JAPE | N.DEC | ALTERNATE NAME | INDEXED: |
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504RAD# | 4 | 5 | В | - | | - |
| 21 | H5504RAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | TRACKS | 1 | 1 | I | - | | - |
| 88 | STATUS | 1 | 1 | I | - | | - |
| 89 | GAUGE | 1 | 1 | I | - | | - |
| 90 | Q_INFO | 8 | 8 | C | - | | - |
| 98 | UFI | 10 | 10 | C | - | | - |
| 108 | SYMBOL | 4 | 5 | B | - | | - |
| 112 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 120 | ORIENTATION | 4 | 5 | B | - | | - |
| 124 | TEXT_NOTE | 30 | 30 | C | - | | - |
| 154 | OLD_UFI | 10 | 10 | C | - | | - |

H5504SAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|----------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504SAD# | 4 | 5 | В | - | | | - |
| 29 | H5504SAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | AVERAGE_HEIGHT | 2 | 2 | I | - | | | - |
| 47 | Q_INFO | 8 | 8 | C | - | | | - |
| 55 | UFI | 10 | 10 | C | - | | | - |
| 65 | SYMBOL | 4 | 5 | В | - | | | - |
| | | | | | | | | |

H5504TAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504TAD# | 4 | 5 | В | - | | | - |
| 29 | H5504TAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | | - |
| 53 | UFI | 10 | 10 | C | - | | | - |
| 63 | SYMBOL | 4 | 5 | В | - | | | - |

H5504TAD.PAT TABLE

| COLUMN | ITEM NAME | MTDTH | OUTPUT | מעאה | N.DEC | ALTERNATE | יבועו עבוו | INDEXED? |
|---------|-------------|-------|--------|------|-------|-----------|------------|----------|
| COLUMIN | IIEM NAME | MIDIH | OUIPUI | TIPE | N.DEC | ALIERNAIE | MAME | INDEVED: |
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504TAD# | 4 | 5 | В | - | | | - |
| 21 | H5504TAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | Q_INFO | 8 | 8 | C | - | | | - |
| 45 | UFI | 10 | 10 | C | - | | | - |
| 55 | SYMBOL | 4 | 5 | B | - | | | - |
| 59 | TEXT_NOTE | 30 | 30 | C | - | | | - |
| | | | | | | | | |

H5504UAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|--------------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504UAD# | 4 | 5 | В | - | | | - |
| 29 | H5504UAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | NAME | 50 | 50 | C | - | | | - |
| 95 | Q_INFO | 8 | 8 | C | - | | | - |
| 103 | UFI | 10 | 10 | C | - | | | - |
| 113 | SYMBOL | 4 | 5 | B | - | | | - |
| 117 | $TEXT_NOTE$ | 30 | 30 | C | - | | | - |
| | _ | | | | | | | |

H5504UAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE N | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-------------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504UAD# | 4 | 5 | В | - | | | - |
| 21 | H5504UAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | DESCRIPTION | 20 | 20 | C | - | | | - |
| 107 | Q_INFO | 8 | 8 | C | - | | | - |
| 115 | UFI | 10 | 10 | C | - | | | - |
| 125 | HEIGHT | 6 | 6 | N | 2 | | | - |
| 131 | SYMBOL | 4 | 5 | B | - | | | - |
| 135 | $FEAT_WID$ | 8 | 10 | F | 4 | | | - |
| 143 | ORIENTATION | 4 | 5 | B | - | | | - |
| 147 | TEXT_NOTE | 30 | 30 | C | - | | | - |
| | | | | | | | | |

H5504VAD.AAT TABLE

| COLUMN | ITEM NAME | שדחדש | OUTPUT | TVDF | N DEC | ALTERNATE NAME | TMDEXEDS |
|--------|-------------|--------|--------|------|-------|----------------|----------|
| 1 | FNODE# | W1D111 | 5 | В | N.DEC | ADIBIMATE NAME | INDEXED: |
| | | | | | _ | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H5504VAD# | 4 | 5 | В | - | | - |
| 29 | H5504VAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | С | - | | - |
| 45 | NAME | 50 | 50 | С | - | | - |
| 95 | CLASS | 1 | 1 | I | - | | - |
| 96 | FORMATION | 1 | 1 | I | - | | - |
| 97 | NRN | 12 | 12 | С | - | | - |
| 109 | SRN | 12 | 12 | С | - | | - |
| 121 | Q_INFO | 8 | 8 | С | - | | - |
| 129 | UFI | 10 | 10 | С | - | | - |
| 139 | SYMBOL | 4 | 5 | B | - | | - |
| 143 | FEAT WID | 8 | 10 | F | 4 | | - |
| 151 | TEXT NOTE | 30 | 30 | C | - | | - |
| 181 | OLD_UFI | 10 | 10 | C | - | | - |
| | | | | | | | |

H5504VAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504VAD# | 4 | 5 | В | - | | - |
| 21 | H5504VAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | CLASS | 1 | 1 | I | - | | - |
| 88 | FORMATION | 1 | 1 | I | - | | - |
| 89 | NRN | 12 | 12 | C | - | | - |
| 101 | SRN | 12 | 12 | C | - | | - |
| 113 | Q_INFO | 8 | 8 | C | - | | - |
| 121 | UFI | 10 | 10 | C | - | | - |
| 131 | SYMBOL | 4 | 5 | В | - | | - |
| 135 | $FEAT_WID$ | 8 | 10 | F | 4 | | - |
| 143 | ORIENTATION | 4 | 5 | B | - | | - |
| 147 | TEXT_NOTE | 30 | 30 | C | - | | - |
| 177 | OLD_UFI | 10 | 10 | C | - | | - |
| | | | | | | | |

H5504WAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NA | AME | INDEXED? |
|--------|-------------|-------|--------|------|-------|--------------|-----|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H5504WAD# | 4 | 5 | В | - | | | - |
| 29 | H5504WAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | С | - | | | - |
| 45 | Q_INFO | 8 | 8 | С | - | | | - |
| 53 | UFI | 10 | 10 | С | - | | | - |
| 63 | SYMBOL | 4 | 5 | B | - | | | - |
| 67 | OLD_UFI | 10 | 10 | C | - | | | - |
| | | | | | | | | |

H5504WAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TVDF | N DEC | AI.TEDNATE N | NAME INDEXED? |
|--------|--------------|---------|--------|------|-------|--------------|---------------|
| 1 | AREA | WIDIN 8 | 18 | F | 5 | ALIEKWAIE I | MANE INDEXED: |
| Τ. | | 0 | | _ | | | _ |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H5504WAD# | 4 | 5 | В | - | | - |
| 21 | H5504WAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | PERENNIAL | 1 | 1 | I | - | | - |
| 88 | HIERARCHY | 1 | 1 | I | - | | - |
| 89 | Q_INFO | 8 | 8 | C | - | | - |
| 97 | UFI | 10 | 10 | C | - | | - |
| 107 | SYMBOL | 4 | 5 | В | - | | - |
| 111 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| 141 | OLD_UFI | 10 | 10 | C | - | | - |
| | | | | | | | |

H5504XAD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|--------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504XAD# | 4 | 5 | В | - | | | - |
| 21 | H5504XAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | WATERPOINT | 1 | 1 | I | - | | | - |
| 38 | Q_INFO | 8 | 8 | C | - | | | - |
| 46 | UFI | 10 | 10 | C | - | | | - |
| 56 | NAME | 50 | 50 | C | - | | | - |
| 106 | SYMBOL | 4 | 5 | B | - | | | - |
| 110 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 118 | ORIENTATION | 4 | 5 | B | - | | | - |
| 122 | $TEXT_NOTE$ | 30 | 30 | C | - | | | - |
| | _ | | | | | | | |

H5504YAD.PAT TABLE

| COLUM | I ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|-------|--------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H5504YAD# | 4 | 5 | В | - | | | - |
| 21 | H5504YAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | С | - | | | - |
| 37 | ELEVATION | 7 | 7 | N | 2 | | | - |
| 44 | CODE | 24 | 24 | С | - | | | - |
| 68 | Q_INFO | 8 | 8 | С | - | | | - |
| 76 | UFI | 10 | 10 | С | - | | | - |
| 86 | NAME | 50 | 50 | C | - | | | - |
| 136 | SYMBOL | 4 | 5 | B | - | | | - |
| 140 | $FEAT_WID$ | 8 | 10 | F | 4 | | | - |
| 148 | ORIENTATION | 4 | 5 | B | - | | | - |
| 152 | $TEXT_NOTE$ | 30 | 30 | C | - | | | - |
| 182 | ORDER | 4 | 4 | C | - | | | - |
| | | | | | | | | |

H55041AD.AAT TABLE

| CO | LUMN | ITEM | NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|----|------|---------|-------|-------|--------|------|-------|-----------|------|----------|
| | 1 | FNODE# | | 4 | 5 | В | - | | | - |
| | 5 | TNODE# | | 4 | 5 | В | - | | | - |
| | 9 | LPOLY# | | 4 | 5 | В | - | | | - |
| | 13 | RPOLY# | | 4 | 5 | В | - | | | - |
| | 17 | LENGTH | | 8 | 18 | F | 5 | | | - |
| | 25 | H55041F | AD# | 4 | 5 | В | - | | | - |
| | 29 | H55041F | AD-ID | 4 | 5 | В | - | | | - |
| | 33 | FEAT CO | ODE | 12 | 12 | C | - | | | - |
| | 45 | Q INFO | | 8 | 8 | C | - | | | - |
| | 53 | UFI | | 10 | 10 | C | - | | | - |
| | 63 | SYMBOL | | 4 | 5 | В | - | | | - |
| | 67 | FEAT_WI | ID | 8 | 10 | F | 4 | | | - |
| | | | | | | | | | | |

H55041AD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H55041AD# | 4 | 5 | В | - | | - |
| 21 | H55041AD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | С | - | | - |
| 37 | NAME | 50 | 50 | С | - | | - |
| 87 | AUTHORITY | 4 | 4 | I | _ | | - |
| 91 | Q_INFO | 8 | 8 | С | _ | | - |
| 99 | UFI | 10 | 10 | С | _ | | - |
| 109 | SYMBOL | 4 | 5 | В | - | | - |
| | | | | | | | |

H55043AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAM | E INDEXED? |
|--------|-------------|-------|--------|------|-------|---------------|------------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | H55043AD# | 4 | 5 | В | - | | - |
| 29 | H55043AD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | - |
| 53 | UFI | 10 | 10 | C | - | | - |
| 63 | SYMBOL | 4 | 5 | B | - | | - |
| 67 | FEAT_WID | 8 | 10 | F | 4 | | - |

H55043AD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H55043AD# | 4 | 5 | В | - | | | - |
| 21 | H55043AD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | AUTHORITY | 4 | 4 | I | - | | | - |
| 91 | Q_INFO | 8 | 8 | C | - | | | - |
| 99 | UFI | 10 | 10 | C | - | | | - |
| 109 | SYMBOL | 4 | 5 | B | - | | | - |
| | | | | | | | | |

H55044AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE N | AME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-------------|-----|----------|
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | H55044AD# | 4 | 5 | В | - | | | - |
| 29 | H55044AD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | | - |
| 53 | UFI | 10 | 10 | C | - | | | - |
| 63 | SYMBOL | 4 | 5 | В | - | | | - |
| 67 | TEXT_NOTE | 30 | 30 | C | - | | | - |
| | | | | | | | | |

H55045AD.AAT TABLE

| COLUM | N ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME INDEXED? |
|-------|-------------|-------|--------|------|-------|-------------------------|
| 1 | FNODE# | 4 | 5 | В | - | - |
| 5 | TNODE# | 4 | 5 | В | - | - |
| 9 | LPOLY# | 4 | 5 | В | - | - |
| 13 | RPOLY# | 4 | 5 | В | - | - |
| 17 | LENGTH | 8 | 18 | F | 5 | - |
| 25 | H55045AD# | 4 | 5 | В | - | - |
| 29 | H55045AD-ID | 4 | 5 | В | - | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | - |
| 45 | SYMBOL | 4 | 5 | В | - | - |
| 49 | TEXT_NOTE | 30 | 30 | C | - | - |
| | | | | | | |

H55045AD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | H55045AD# | 4 | 5 | В | - | | - |
| 21 | H55045AD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | SYMBOL | 4 | 5 | B | - | | - |
| 41 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 49 | ORIENTATION | 4 | 5 | В | - | | - |
| 53 | TEXT_NOTE | 30 | 30 | C | - | | - |
| | | | | | | | |

H55046AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME INDEX | ŒD? |
|--------|-------------|-------|--------|------|-------|----------------------|-----|
| 1 | FNODE# | 4 | 5 | В | - | - | |
| 5 | TNODE# | 4 | 5 | В | - | - | |
| 9 | LPOLY# | 4 | 5 | В | - | - | |
| 13 | RPOLY# | 4 | 5 | В | - | - | |
| 17 | LENGTH | 8 | 18 | F | 5 | - | |
| 25 | H55046AD# | 4 | 5 | В | - | - | |
| 29 | H55046AD-ID | 4 | 5 | В | - | - | |
| 33 | FEAT_CODE | 12 | 12 | C | - | - | |
| 45 | SYMBOL | 4 | 5 | В | - | - | |

H55047AD.AAT TABLE

| COLUMN | ITEM | NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|----------------|-------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | | 4 | 5 | В | - | | | - |
| 5 | TNODE# | | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | | 4 | 5 | В | - | | | - |
| 17 | LENGTH | | 8 | 18 | F | 5 | | | - |
| 25 | H55047 | #D# | 4 | 5 | В | - | | | - |
| 29 | H55047 | AD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_C | ODE | 12 | 12 | C | - | | | - |
| 45 | ${\it SYMBOL}$ | | 4 | 5 | В | - | | | - |

H55048AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME INDEXED? |
|--------|-------------|-------|--------|------|-------|-------------------------|
| 1 | FNODE# | 4 | 5 | В | - | - |
| 5 | TNODE# | 4 | 5 | В | - | - |
| 9 | LPOLY# | 4 | 5 | В | - | - |
| 13 | RPOLY# | 4 | 5 | В | - | - |
| 17 | LENGTH | 8 | 18 | F | 5 | - |
| 25 | H55048AD# | 4 | 5 | В | - | - |
| 29 | H55048AD-ID | 4 | 5 | В | - | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | - |

H55048AD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | H55048AD# | 4 | 5 | В | - | | | - |
| 21 | H55048AD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT CODE | 12 | 12 | C | _ | | | _ |

7.2 1:100 000 TABLES

S7922AAD.AAT TABLE

| COLUMN | ITEM | NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|---------|-------|-------|--------|------|-------|-----------|------|----------|
| 1 | FNODE# | | 4 | 5 | В | - | | | - |
| 5 | TNODE# | | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | | 4 | 5 | В | - | | | - |
| 17 | LENGTH | | 8 | 18 | F | 5 | | | - |
| 25 | S7922AA | .D# | 4 | 5 | В | - | | | - |
| 29 | S7922AA | .D-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CO | DE | 12 | 12 | С | - | | | - |
| 45 | Q_INFO | | 8 | 8 | С | - | | | - |
| 53 | SYMBOL | | 4 | 5 | B | - | | | - |

S7922AAD.PAT TABLE

| COLUM | IN ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|-------|--------------|-------|--------|------|-------|----------------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | S7922AAD# | 4 | 5 | В | - | | - |
| 21 | S7922AAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | FACILITY | 1 | 1 | I | - | | - |
| 88 | Q_INFO | 8 | 8 | C | - | | - |
| 96 | SYMBOL | 4 | 5 | В | - | | - |
| 100 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 108 | ORIENTATION | 4 | 5 | В | - | | - |
| 112 | ? TEXT NOTE | 30 | 30 | C | _ | | _ |

S7922BAD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | S7922BAD# | 4 | 5 | В | - | | - |
| 29 | S7922BAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | Q_INFO | 8 | 8 | С | - | | - |
| 53 | SYMBOL | 4 | 5 | В | - | | - |

| COLUMN | | | | | | | | |
|--|--|--|---|---|--|--|--------|--------------------------------------|
| | | | OUTPUT | | N.DEC | ALTERNATE N | IAME I | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | S7922BAD# | 4 | 5 | В | - | | | - |
| 21 | S7922BAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | PARK | 2 | 2 | I | - | | | - |
| 89 | Q_INFO | 8 | 8 | C | - | | | - |
| 97 101 | SYMBOL TEXT_NOTE | 4 30 | 5 30 | B C | - | | | - |
| **** | ****** | ***** | ***** | **** | ***** | ***** | ***** | ***** |
| 7922C | AD.AAT TABLE | | | | | | | |
| OLUMN | | | OUTPUT | | N.DEC | ALTERNATE N | IAME I | NDEXED? |
| | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | S7922CAD# | 4 | 5 | В | - | | | - |
| 29 | S7922CAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | | C | - | | | - |
| 45 | ELEVATION | 7 | 7 | N | 2 | | | - |
| | CONTOUR | 1 | 1 | I | - | | | - |
| 53 | Q_INFO | 8 | 8 | C | - | | | - |
| 61 | SYMBOL | 4 | 5 | В | - | | | - |
| | ****** | ***** | ***** | **** | ***** | ****** | ***** | ****** |
| 7922C | AD.PAT TABLE | | | | | | | |
| , , , , , | | HILDEN | OUTPUT | | N.DEC | ALTERNATE N | IAME I | INDEXED? |
| | ITEM NAME | M.T.D.T.H | OUIPUI | TYPE | | | | |
| | ITEM NAME AREA | 8 MIDLH | 18 | TYPE F | 5 | | | - |
| OLUMN | AREA PERIMETER | | | | 5 5 | | | - |
| OLUMN 1 9 17 | AREA PERIMETER S7922CAD# | 8 8 4 | 18 18 5 | F F B | | | | - - - |
| OLUMN 1 9 17 21 | AREA PERIMETER S7922CAD# S7922CAD-ID | 8 | 18 18 | F F B B | | | | - - - |
| OLUMN 1 9 17 21 25 | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE | 8 8 4 4 12 | 18 18 5 5 | F F B | 5 - - - | | | - - - - |
| OLUMN 1 9 17 21 25 37 | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION | 8 8 4 4 12 7 | 18 18 5 5 12 7 | F F B C N | | | | - - - - |
| DLUMN 1 9 17 21 25 37 44 | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION Q_INFO | 8 4 4 12 7 8 | 18 18 5 5 12 7 | F B B C N | 5 - - - | | | - - - - - |
| OLUMN 1 9 17 21 25 37 | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION | 8 8 4 4 12 7 | 18 18 5 5 12 7 | F F B C N | 5 - - - | | | - - - - - - |
| OLUMN 1 9 17 21 25 37 44 52 | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION Q_INFO | 8 4 4 12 7 8 4 | 18 18 5 5 12 7 8 5 | F F B C N C | 5 - - 2 - | ***** | ·**** | - - - - - - - |
| OLUMN 1 9 17 21 25 37 44 52 | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION Q_INFO SYMBOL | 8 4 4 12 7 8 4 | 18 18 5 5 12 7 8 5 | F F B C N C | 5 - - 2 - | ***** | ***** | - - - - - - - - |
| DLUMN 1 9 17 21 25 37 44 52 ***** | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION Q_INFO SYMBOL ************************************ | 8 4 4 12 7 8 4 | 18 18 5 5 12 7 8 5 | F F B B C N C B | 5 - - 2 - - ***** | ************************************** | | - - - - - - ****** |
| DLUMN 1 9 17 21 25 37 44 52 ****** | AREA PERIMETER S7922CAD# S7922CAD-ID FEAT_CODE ELEVATION Q_INFO SYMBOL ************************************ | 8 4 4 12 7 8 4 | 18 18 5 5 12 7 8 5 | F F B B C N C B | 5 - - 2 - - ***** | | | |
| DLUMN 1 9 17 21 25 37 44 52 ****** | AREA PERIMETER \$7922CAD# \$7922CAD-ID FEAT_CODE ELEVATION Q_INFO SYMBOL ************************************ | 8 8 4 4 4 12 7 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 18 18 5 5 12 7 8 5 | F F B B C N C B | 5 - - 2 - - ****** | | | |
| DLUMN 1 9 17 21 25 37 44 52 ***** 7922D2 DLUMN 1 | AREA PERIMETER \$7922CAD# \$7922CAD-ID FEAT_CODE ELEVATION Q_INFO \$YMBOL *********************************** | 8 8 4 4 4 12 7 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 18 18 5 5 12 7 8 5 ******* | F F B B C N C B | 5 - - 2 - - ****** | | | |
| DLUMN 1 9 17 21 25 37 44 52 ****** 7922D2 DLUMN 1 5 | AREA PERIMETER \$7922CAD# \$7922CAD-ID FEAT_CODE ELEVATION Q_INFO \$YMBOL *********************************** | 8 8 4 4 4 12 7 8 4 4 ******************************* | 18 18 5 5 12 7 8 5 ********** OUTPUT 5 5 | F F B B C N C B | 5 - - 2 - - ****** | | | |
| DLUMN 1 9 17 21 25 37 44 52 ****** 7922D2 DLUMN 1 5 9 | AREA PERIMETER \$7922CAD# \$7922CAD-ID FEAT_CODE ELEVATION Q_INFO \$YMBOL *********************************** | 8 8 4 4 4 12 7 8 4 4 4 4 4 4 4 4 4 | 18 18 5 5 12 7 8 5 ********* OUTPUT 5 5 5 5 | F F B B C N C B | 5 - - 2 - - ****** | | | |
| DLUMN 1 9 17 21 25 37 44 52 ****** DLUMN 1 5 9 13 | AREA PERIMETER \$7922CAD# \$7922CAD-ID FEAT_CODE ELEVATION Q_INFO SYMBOL ************************************ | 8 8 4 4 4 12 7 8 4 4 4 4 4 4 4 4 4 4 4 | 18 18 5 5 12 7 8 5 ********* OUTPUT 5 5 5 5 5 | F F B B C N C B | 5 - - 2 - - ******* | | | |
| DLUMN 1 9 17 21 25 37 44 52 2***** DLUMN 1 5 9 13 17 | AREA PERIMETER \$7922CAD# \$7922CAD-ID FEAT_CODE ELEVATION Q_INFO SYMBOL ************************************ | 8 8 4 4 4 12 7 8 4 4 4 4 4 4 8 8 | 18 18 5 5 12 7 8 5 ********* OUTPUT 5 5 5 18 | F F B B C N C B *************************** | 5 2 5 | | | |

45 NAME

95 PERENNIAL

96 HIERARCHY

105 SYMBOL 109 TEXT_NOTE

97 Q_INFO

С

I

I

С

B

C

50

1

1

8 4

30

50

8

5

30

| ***** | ****** | ****** | ****** | **** | ***** | ****** | ***** |
|---------|----------------|--------|--------|-------|-------|---|-------------|
| S7922D | AD.PAT TABLE | | | | | | |
| COLUMN | ITEM NAME | HTUIM | OUTPUT | TYPE | N.DEC | ALTERNATE NA | ME INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | |
| 9 | PERIMETER | 8 | 18 | F | 5 | | |
| | | | | | 5 | | - |
| 17 | S7922DAD# | 4 | 5 | В | - | | - |
| 21 | S7922DAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | С | - | | - |
| 37 | NAME | 50 | 50 | С | - | | - |
| 87 | PERENNIAL | 1 | 1 | I | _ | | _ |
| 88 | Q INFO | 8 | 8 | C | _ | | _ |
| 96 | SYMBOL | 4 | 5 | В | _ | | _ |
| | | | | | _ | | |
| 100 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 108 | ORIENTATION | 4 | 5 | В | - | | - |
| 112 | TEXT_NOTE | 30 | 30 | C | - | | - |
| | ************** | ****** | ***** | ***** | ***** | ****** | ***** |
| 519225. | AD.FAI IADUE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NA | ME INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | S7922EAD# | 4 | 5 | В | _ | | _ |
| 21 | S7922EAD-ID | 4 | 5 | В | _ | | _ |
| 25 | FEAT_CODE | 12 | 12 | č | _ | | _ |
| 37 | - | 7 | 7 | | 2 | | |
| | ELEVATION | - | - | N | 2 | | - |
| 44 | SOURCE | 1 | 1 | I | - | | - |
| 45 | POINT | 1 | 1 | I | - | | - |
| 46 | Q_INFO | 8 | 8 | C | - | | - |
| 54 | SYMBOL | 4 | 5 | B | - | | _ |
| 58 | FEAT WID | 8 | 10 | F | 4 | | _ |
| 66 | ORIENTATION | 4 | 5 | В | _ | | _ |
| 00 | OKIENIATION | 4 | J | Б | | | |
| ***** | ****** | ****** | ***** | **** | ***** | ***** | ***** |
| S7922F | AD.AAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NA | ME INDEXED? |
| 1 | FNODE# | 4 | 5 | В | | 111111111111111111111111111111111111111 | _ |
| 5 | TNODE# | 4 | 5 | В | | | |
| | | | | | _ | | _ |
| | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | S7922FAD# | 4 | 5 | В | - | | - |
| 29 | S7922FAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | | 8 | | C | _ | | _ |
| 53 | · · · | 4 | | | _ | | _ |
| 57 | TEXT NOTE | | 30 | | _ | | _ |
| | ****** | | | | ***** | ****** | ***** |
| S7922F | AD.PAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NA | ME INDEXED? |
| 1 | AREA | 8 | 18 | | 5 | | _ |
| | PERIMETER | 8 | 18 | F | 5 | | _ |
| | S7922FAD# | 4 | | В | 5 | | |
| | | | | | _ | | - |
| 21 | | 4 | | В | - | | - |
| | FEAT_CODE | 12 | | | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | STATE | 1 | 1 | I | - | | - |
| 88 | Q_INFO | 8 | 8 | C | _ | | - |
| 96 | | 4 | | В | _ | | _ |
| 20 | | - | _ | | | | |

| ***** | ******* | ***** | ***** | **** | ***** | ****** | **** | ****** |
|-----------------------------|--|-------------------------|------------------------------|---------------|-----------------------|---|------------|----------|
| S7922G | AD.PAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WTDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | 711111111111111111111111111111111111111 | 147 71-111 | тирыхыр. |
| _ | | | | | | | | _ |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | S7922GAD# | 4 | 5 | В | - | | | - |
| 21 | S7922GAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT CODE | 12 | 12 | C | - | | | - |
| 37 | BUILDING | 1 | 1 | I | - | | | - |
| 38 | FUNCTION | 2 | 2 | I | _ | | | _ |
| 40 | Q INFO | 8 | 8 | С | _ | | | _ |
| 48 | SYMBOL | 4 | 5 | В | _ | | | _ |
| | | | | | _ | | | _ |
| 52 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 60 64 | ORIENTATION TEXT NOTE | 4 30 | 5 30 | В С | _ | | | - |
| **** | ***** | ***** | ***** | **** | ***** | ***** | **** | ***** |
| S7922H | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | | | _ |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | | | | |
| - | | | | | _ | | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | S7922HAD# | 4 | 5 | В | - | | | - |
| 29 | S7922HAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | | - |
| 53 | SYMBOL | 4 | 5 | В | _ | | | _ |
| 57 | TEXT NOTE | 30 | 30 | C | _ | | | _ |
| | ************************************** | ****** | ****** | **** | ***** | ***** | **** | ***** |
| COLUMN | ITEM NAME | MIDTH | OUTPUT | my DE | N.DEC | ALTERNATE | MIN MIT | INDEXED? |
| | | | | | N.DEC | ALIERNAIE | INAME | INDEVED: |
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | S7922IAD# | 4 | 5 | В | _ | | | _ |
| | S7922IAD-ID | 4 | | | | | | _ |
| | FEAT_CODE | 12 | | В С | _ | | | _ |
| | Q INFO | 8 | | | _ | | | |
| | | | | | - | | | - |
| 53 ***** | <i>SYMBOL</i> ******* | ***** | | B ***** | - ***** | ***** | **** | ***** |
| S7922I | AD.PAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| | AREA | 8 | 18 | F | 5 | | | _ |
| | PERIMETER | 8 | | F | 5 | | | _ |
| | | 4 | | | - - | | | _ |
| | S7922IAD# | | | В | - | | | _ |
| 21 | | 4 | 5 | В | - | | | - |
| | S7922IAD-ID | _ | | | | | | |
| | FEAT_CODE | 12 | | _ | - | | | - |
| 25 37 | FEAT_CODE | 12 1 | 12 1 | I | - | | | - |
| | FEAT_CODE BUILDING | | 1 | _ | - - | | | |
| 37 38 | FEAT_CODE BUILDING | 1 | 1 2 | I | - - - | | | |
| 37 38 40 | FEAT_CODE BUILDING FUNCTION NAME | 1 2 50 | 1 2 50 | I I C | - - - | | | |
| 37 38 40 90 | FEAT_CODE BUILDING FUNCTION NAME DESCRIPTION | 1 2 50 20 | 1 2 50 20 | I C C | - - - - | | | |
| 37 38 40 90 110 | FEAT_CODE BUILDING FUNCTION NAME DESCRIPTION Q_INFO | 1 2 50 20 8 | 1 2 50 20 8 | I C C | - - - - | | | |
| 37 38 40 90 110 | FEAT_CODE BUILDING FUNCTION NAME DESCRIPTION Q_INFO SYMBOL | 1 2 50 20 | 1 2 50 20 8 5 | I C C | - - - - - | | | |

| ***** | ******* | ****** | ****** | **** | ***** | ****** | **** | ***** |
|----------|--------------|---------|--------|------|--------|-----------|------|----------|
| S7922J. | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | | | |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | | _ |
| 17 | LENGTH | 8 | | F | - 5 | | | _ |
| | | | 18 | _ | _ | | | - |
| 25 | S7922JAD# | 4 | 5 | В | - | | | - |
| 29 | S7922JAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | С | - | | | - |
| 45 | Q_INFO | 8 | 8 | С | - | | | - |
| 53 | SYMBOL | 4 | 5 | В | - | | | - |
| | ******* | ***** | ****** | **** | ***** | ****** | **** | ****** |
| S7922K | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | - | | _ | |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | | _ |
| | | | | | 5 | | | _ |
| 25 | S7922KAD# | 4 | 5 | В | _ | | | - |
| 29 | S7922KAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | С | - | | | - |
| 45 | Q_INFO | 8 | 8 | С | - | | | - |
| 53 | SYMBOL | 4 | 5 | В | - | | | - |
| S7922L | AD.PAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | S7922LAD# | 4 | 5 | В | - | | | - |
| 21 | S7922LAD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT CODE | 12 | 12 | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | LOCALITY | 2 | 2 | I | _ | | | _ |
| 89 | Q INFO | 8 | 8 | C | _ | | | _ |
| 97 | SYMBOL | 4 | | В | _ | | | _ |
| 101 | FEAT WID | 8 | | F | 4 | | | _ |
| 109 | ORIENTATION | 4 | | В | _ | | | _ |
| 113 | | 30 | | C C | _ | | | _ |
| 113 | TEXT_NOTE | 30 | 30 | C | _ | | | _ |
| ***** | ****** | ***** | ****** | **** | ***** | ***** | **** | ***** |
| S7922M | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | _ | | _ |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | | = |
| 13 | RPOLY# | 4 | | В | _ | | | _ |
| | | | | | - | | | - |
| 17 | LENGTH | 8 | | F | 5 | | | _ |
| 25 | S7922MAD# | 4 | 5 | В | - | | | - |
| 29 | S7922MAD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | _ | | | - |
| | | | | • | | | | |
| 53 | SYMBOL | 4 | 5 | В | - | | | - |
| 53 57 | | 4 30 | 5 | | - | | | - |

| ***** | ****** | ****** | ****** | **** | ***** | ***** | **** | ****** |
|-----------|---------------------|---------|--------|--------|-------|-------------|-------|----------|
| S7922M | AD.PAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE 1 | NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | | _ ` |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | _ |
| 17 | S7922MAD# | 4 | 5 | В | _ | | | _ |
| 21 | S7922MAD-ID | 4 | 5 | В | _ | | | _ |
| 25 | | 12 | 12 | C | _ | | | _ |
| | FEAT_CODE | | | | - | | | - |
| 37 | Q_INFO | 8 | 8 | C | - | | | - |
| 45 | NAME | 50 | 50 | C | - | | | - |
| 95 | SYMBOL | 4 | 5 | В | - | | | - |
| 99 | $FEAT_WID$ | 8 | 10 | F | 4 | | | - |
| 107 | ORIENTATION | 4 | 5 | В | - | | | - |
| 111 | TEXT_NOTE | 30 | 30 | С | - | | | - |
| ***** | ****** | ***** | ****** | **** | ***** | ***** | **** | ***** |
| S7922N | AD.PAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE 1 | NAMF. | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | | |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | _ |
| 17 | S7922NAD# | 4 | 5 | В | _ | | | _ |
| 21 | S7922NAD-ID | 4 | 5 | В | _ | | | _ |
| 25 | | 12 | 12 | C | _ | | | _ |
| | FEAT_CODE | | | | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | RELATIONSHIP | 1 | 1 | I | - | | | - |
| 88 | Q_INFO | 8 | 8 | C | - | | | - |
| 96 | SYMBOL | 4 | 5 | В | - | | | - |
| 100 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 108 | ORIENTATION | 4 | 5 | В | - | | | - |
| 112 | TEXT NOTE | 30 | 30 | C | - | | | - |
| | _ | | | | | | | |
| ***** | ****** | ***** | ****** | **** | ***** | ***** | **** | ***** |
| S79220 | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE 1 | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | | | _ |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | | _ |
| - | RPOLY# | = | | | | | | |
| 13 | | 4 | 5 | В | _ | | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | | - |
| 25 | S79220AD# | 4 | 5 | В | - | | | - |
| 29 | S79220AD-ID | 4 | | В | - | | | - |
| | FEAT_CODE | 12 | | С | - | | | - |
| 45 | $Q_{\rm INFO}$ | 8 | 8 | C | - | | | - |
| 53 | SYMBOL | 4 | 5 | В | - | | | - |
| ***** | ****** | ***** | ****** | **** | ***** | ***** | **** | ***** |
| S79220. | AD.PAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE 1 | NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | _ |
| | S79220AD# | 4 | 5 | В | _ | | | = |
| 21 | | 4 | 5 | В | _ | | | - |
| | | | | | - | | | - |
| 25 | FEAT_CODE | 12 | | C | - | | | - |
| 37 | NAME | 50 | 50 | C | - | | | - |
| 87 | RELATIONSHIP | 1 | 1 | I | - | | | - |
| 88 | REEF | 1 | 1 | I | - | | | - |
| 89 | Q_INFO | 8 | 8 | C | - | | | - |
| | | | | | | | | |
| 97 | SYMBOL | 4 | 5 | В | - | | | _ |
| 97 101 | SYMBOL TEXT_NOTE | 4 30 | | В С | - | | | - |

| | | | | | ***** | ***** | ***** | ***** |
|---|--|--|---|---|--|-----------|-------|---|
| S7922P | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | | | _ |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | | _ |
| 25 | S7922PAD# | 4 | 5 | В | _ | | | _ |
| 29 | S7922PAD-ID | 4 | 5 | В | | | | |
| 33 | FEAT CODE | 12 | 12 | C | _ | | | |
| 45 | PRODUCT | 1 | 1 | I | _ | | | _ |
| 46 | RELATIONSHIP | 1 | 1 | ī | | | | |
| 47 | Q INFO | 8 | 8 | C | | | | |
| 55 | NAME | 50 | 50 | C | _ | | | _ |
| 105 | SYMBOL | 4 | 5 | В | _ | | | _ |
| 103 | TEXT NOTE | 30 | 30 | C C | _ | | | _ |
| 109 | IEXI_NOIE | 30 | 30 | C | _ | | | _ |
| ***** | ******* | ***** | ***** | **** | ***** | ***** | ***** | ***** |
| S7922Q | AD.AAT TABLE | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | | · | - |
| 5 | TNODE# | 4 | 5 | В | _ | | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | | _ |
| 25 | S7922QAD# | 4 | 5 | В | _ | | | _ |
| 29 | S7922QAD-ID | 4 | 5 | В | _ | | | _ |
| 33 | FEAT CODE | 12 | 12 | C | _ | | | _ |
| 45 | Q INFO | 8 | | Ċ | _ | | | _ |
| 53 | SYMBOL | 4 | 5 | В | _ | | | _ |
| ***** | ***** | **** | ***** | **** | ***** | ***** | ***** | ***** |
| S7922Q | | | | | | | | |
| | AD.PAT TABLE | | | | | | | |
| COLUMN | | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| COLUMN 1 | | WIDTH 8 | OUTPUT | TYPE F | N.DEC 5 | ALTERNATE | NAME | INDEXED? |
| | ITEM NAME | | | | | ALTERNATE | NAME | INDEXED? - - |
| 1 | ITEM NAME AREA | 8 | 18 | F | 5 | ALTERNATE | NAME | INDEXED? - - - |
| 1 9 | ITEM NAME AREA PERIMETER | 8 | 18 18 | F F | 5 | ALTERNATE | NAME | INDEXED? - - - - |
| 1 9 17 | ITEM NAME AREA PERIMETER S7922QAD# | 8 8 4 | 18 18 5 | F F B | 5 | ALTERNATE | NAME | INDEXED? |
| 1 9 17 21 | ITEM NAME AREA PERIMETER S7922QAD# S7922QAD-ID | 8 8 4 4 | 18 18 5 5 | F F B | 5 | ALTERNATE | NAME | INDEXED? - - - - - - |
| 1 9 17 21 25 | ITEM NAME AREA PERIMETER S7922QAD# S7922QAD-ID FEAT_CODE | 8 8 4 4 12 | 18 18 5 5 12 8 | F F B C | 5 | ALTERNATE | NAME | INDEXED? |
| 1 9 17 21 25 37 | ITEM NAME AREA PERIMETER S7922QAD# S7922QAD-ID FEAT_CODE Q_INFO | 8 8 4 4 12 8 | 18 18 5 5 12 8 50 | F B B C | 5 | ALTERNATE | NAME | INDEXED? |
| 1 9 17 21 25 37 45 | ITEM NAME AREA PERIMETER S7922QAD# S7922QAD-ID FEAT_CODE Q_INFO NAME | 8 4 4 12 8 50 | 18 18 5 5 12 8 50 | F F B C C | 5 | ALTERNATE | NAME | INDEXED? |
| 1 9 17 21 25 37 45 95 | ITEM NAME AREA PERIMETER S7922QAD# S7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL | 8 4 4 12 8 50 4 30 | 18 18 5 5 12 8 50 5 | F B B C C C B C | 55 | | | - - - - - - |
| 1 9 17 21 25 37 45 95 99 | ITEM NAME AREA PERIMETER S7922QAD# S7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE | 8 4 4 12 8 50 4 30 | 18 18 5 5 12 8 50 5 | F B B C C C B C | 55 | | | - - - - - - |
| 1 9 17 21 25 37 45 95 99 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 12 8 50 4 30 | 18 18 5 5 12 8 50 5 30 | F F B B C C C | 5 5 - - - - - - - - | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 5 0 4 3 0 WIDTH | 18 18 5 5 12 8 50 5 30 | F F B B C C C ***** | 5 5 - - - - - - - - | | **** | - - - - - - |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 5 0 4 3 0 WIDTH 4 | 18 18 5 5 12 8 50 5 30 ******* | F F B B C C C S TYPE B | 5 5 - - - - - - - - | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 5 0 4 3 0 4 3 0 WIDTH 4 4 4 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C S TYPE B B B | 5 5 - - - - - - - - - - - - - - - - - - | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 5 0 4 3 0 4 ***************************** | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C | 5 5 - - - - - - - - | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 5 0 4 3 0 4 ***************************** | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C | 5 5 5 | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 17 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 50 4 30 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C | 5 5 5 5 | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 17 25 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 4 12 8 5 0 4 3 0 4 4 4 4 4 4 4 4 8 4 4 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C ***** | 5 5 5 | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 17 25 29 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 50 4 30 WIDTH 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C ***** | 5 5 5 5 | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 17 25 29 33 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C ***** | 5 5 5 5 | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 17 25 29 33 45 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 8 4 4 4 12 8 8 50 4 30 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C ***** TYPE B B B B C C | 5 5 5 5 | ***** | **** | - - - - - - - ****** |
| 1 9 17 21 25 37 45 95 99 ****** S7922R COLUMN 1 5 9 13 17 25 29 33 | ITEM NAME AREA PERIMETER \$7922QAD# \$7922QAD-ID FEAT_CODE Q_INFO NAME SYMBOL TEXT_NOTE *********************************** | 8 8 4 4 4 12 8 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 | 18 18 5 5 12 8 50 5 30 ******************************* | F F B B C C C B C ***** | 5 5 5 5 | ***** | **** | - - - - - - - ****** |

| | aa. | - | _ | _ | | | |
|----------------|-------------------|--------------|----------|--------|--------|-----------------|----------|
| 97 | GAUGE | 1 | 1 | I | - | | - |
| 98 | Q_INFO | 8 | 8 | С | - | | - |
| 106 | SYMBOL | 4 | | В | - | | - |
| 110 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 118 | TEXT_NOTE | 30 | 30 | C | - | | - |
| | | | | | | | |
| **** | ****** | **** | ****** | **** | ***** | ****** | ***** |
| S7922R | AD.PAT TABLE | | | | | | |
| COLUMN | ITEM NAME | מייחדש | OUTPUT | TVDE | N DEC | ALTERNATE NAME | INDEXED? |
| | | | | F | N.DEC | ALIERNAIE NAME | INDEVED: |
| 9 | AREA PERIMETER | 8 8 | 18 | F | 5 5 | | _ |
| _ | | 8 | 18 | _ | 5 | | - |
| 17 | | | 5 | В | _ | | - |
| 21 | | 4 | 5 | В | _ | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | TRACKS | 1 | | I | - | | - |
| 88 | STATUS | 1 | ·— | I | - | | - |
| 89 | GAUGE | 1 | | I | - | | - |
| 90 | Q_INFO | 8 | 8 | C | - | | - |
| 98 | SYMBOL | 4 | 5 | B | - | | - |
| 102 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 110 | ORIENTATION | 4 | 5 | B | - | | - |
| 114 | TEXT_NOTE | 30 | 30 | C | - | | - |
| | | | | | | | |
| **** | ****** | **** | ***** | **** | ***** | ****** | ***** |
| 67922 6 | AD.AAT TABLE | | | | | | |
| 575225 | AD.AAI IADUB | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | | 4 | 5 | В | _ | | _ |
| 5 | TNODE# | 4 | 5 | В | _ | | _ |
| 9 | LPOLY# | 4 | | В | _ | | _ |
| 13 | RPOLY# | 4 | | В | _ | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | _ |
| 25 | S7922SAD# | 4 | 5 | В | _ | | _ |
| 29 | S7922SAD-ID | 4 | | В | _ | | _ |
| 33 | FEAT CODE | 12 | | Č | _ | | _ |
| 45 | AVERAGE HEIGHT | 2 | 2 | Ī | _ | | _ |
| 47 | Q INFO | 8 | 8 | C | _ | | _ |
| 55 | SYMBOL | 4 | 5 | В | _ | | _ |
| 33 | STADOL | 7 | 3 | Ъ | | | |
| ***** | ****** | ***** | ***** | **** | ***** | ****** | ***** |
| | | | | | | | |
| S7922T | AD.AAT TABLE | | | | | | |
| COLITMA | ITEM NAME | י זייים דוען | الساميات | יזמעיף | א טבכ | ALTERNATE NAME | INDEXED? |
| 1 | FNODE# | WIDIH 4 | 5 | В | N.DEC | VOIRVING INVINE | INDEVED: |
| 5 | TNODE# | 4 | | В | _ | | _ |
| | LPOLY# | 4 | _ | В | - | | - |
| | RPOLY# | 4 | | В | - | | - |
| 13 | | _ | | | - | | - |
| 17 | LENGTH | 8 | | F | 5 | | - |
| 25 | S7922TAD# | 4 | | В | - | | - |
| 29 | S7922TAD-ID | 4 | | В | - | | - |
| 33 | FEAT_CODE | 12 | | C | - | | - |
| 45 | Q_INFO | 8 | | C | - | | - |
| 53 | SYMBOL | 4 | 5 | В | - | | - |
| ***** | ****** | **** | ****** | **** | ***** | ****** | ***** |
| | | | | | | | |

| S7922T | AD.PAT TABLE | | | | | | |
|-----------------|--------------|---------|-----------|---------------|--------|----------------|----------|
| | ITEM NAME | עיירוע | OTT#*DTT# | TVDE | N DEC | ALTERNATE NAME | INDEXED? |
| | AREA | WIDIH | 18 | F | N.DEC | ALIEKNAIE NAME | INDEVED: |
| 9 | PERIMETER | 8 | 18 | F | 5 | | _ |
| - | | | | | - - | | _ |
| | S7922TAD# | 4 | 5 | В | - | | - |
| 21 | S7922TAD-ID | 4 | | В | - | | - |
| 25 | FEAT_CODE | 12 | | | - | | - |
| 37 | COVERDENSITY | 1 | | I | - | | - |
| 38 | GROWTHFORM | 1 | 1 | I | - | | - |
| 39 | TYPE | | 1 | | - | | - |
| 40 | Q_INFO | 8 | | | - | | - |
| 48 | | 4 | | B | - | | - |
| 52 | TEXT_NOTE | 30 | 30 | C | - | | - |
| **** | ****** | ***** | ***** | **** | ***** | ***** | ***** |
| S7922U | AD.AAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | | _ | | _ ` |
| 5 | TNODE# | 4 | | В | _ | | _ |
| | LPOLY# | 4 | 5 | B | _ | | _ |
| 13 | RPOLY# | 4 | | B | _ | | _ |
| 17 | LENGTH | | 18 | | 5 | | _ |
| | S7922UAD# | 4 | | В | _ | | _ |
| | | | | | _ | | _ |
| 29 33 | S7922UAD-ID | 4 12 | | В С | _ | | _ |
| | FEAT_CODE | | E 0 | ~ | - | | - |
| 45 | NAME | 50 | | | - | | - |
| 95 | Q_INFO | 8 | | C | - | | - |
| 103 | SYMBOL | | 5 | | _ | | _ |
| 107 | TEXT_NOTE | 30 | 30 | C | - | | - |
| | AD.PAT TABLE | ытрен | Olimbrim | TVDE. | N DEC | ALTEDNATE NAME | TMDEVEDO |
| COLUMN | | | OUTPUT | | | ALTERNATE NAME | INDEXED? |
| _ | AREA | 8 | 18 | F | 5 | | - |
| | PERIMETER | 8 | | F | 5 | | - |
| 17 | | 4 | 5 | В | _ | | - |
| 21 | S7922UAD-ID | 4 | 5 | В | - | | - |
| | FEAT_CODE | 12 | | С | - | | - |
| 37 | NAME | 50 | | | - | | - |
| 87 | DESCRIPTION | | 20 | | - | | - |
| | Q_INFO | 8 | 8 | C | - | | - |
| 115 | HEIGHT | 6 | | N | 2 | | - |
| | SYMBOL | 4 | 5 | В | - | | - |
| 125 | FEAT_WID | 8 | 10 | F | 4 | | - |
| 133 | ORIENTATION | 4 | | В | - | | - |
| 137 | TEXT_NOTE | 30 | 30 | С | - | | - |
| **** | ****** | ***** | ***** | **** | ***** | ***** | ***** |
| S7922V | AD.AAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | | 4 | | В | - | | _ |
| 5 | TNODE# | 4 | 5 | В | - | | _ |
| | LPOLY# | 4 | 5 | B B | _ | | - |
| 13 | | 4 | 5 | В | _ | | _ |
| 17 | LENGTH | 8 | | F | 5 | | _ |
| 25 | | 4 | | В | - | | _ |
| 29 | S7922VAD-ID | 4 | | | _ | | _ |
| 33 | FEAT CODE | 12 | | | _ | | _ |
| 45 | - | 50 | | C | _ | | _ |
| 95 | | 1 | | I | _ | | - |
| 96 | FORMATION | 1 | | Ī | _ | | - |
| 20 | | _ | _ | _ | _ | | _ |

| 97 | NRN | 12 | 12 | С | | | |
|------------|---------------|-------------|--------|--------|-------|----------------|----------|
| 109 | SRN | 12 | 12 | C | - | | - |
| | | | | C | - | | - |
| 121 | Q_INFO | 8 | 8 | | - | | - |
| 129 | | 4 | 5 | В | _ | | - |
| 133 | _ | 8 | | F | 4 | | _ |
| 141 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| | ************* | ***** | ****** | **** | ***** | ****** | ***** |
| D, 322 V | | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | _ |
| 9 | PERIMETER | 8 | 18 | F | 5 | | _ |
| 17 | S7922VAD# | 4 | 5 | В | _ | | _ |
| 21 | S7922VAD-ID | 4 | 5 | В | _ | | _ |
| 25 | FEAT CODE | 12 | 12 | C | _ | | _ |
| 37 | NAME | 50 | 50 | C | _ | | _ |
| 87 | CLASS | 1 | 1 | I | _ | | _ |
| 88 | FORMATION | 1 | | Ī | _ | | _ |
| 89 | NRN | 12 | 12 | C | _ | | _ |
| 101 | SRN | 12 | 12 | C | _ | | _ |
| 113 | Q_INFO | 8 | 8 | C | _ | | _ |
| 121 | | 4 | | В | _ | | _ |
| 125 | | 8 | 10 | F | 4 | | _ |
| | _ | 4 | | г В | 4 | | _ |
| 133 137 | | 30 | 30 | Б С | _ | | _ |
| 137 | TEXT_NOTE | 30 | 30 | C | _ | | _ |
| S7922W | AD.AAT TABLE | WTDTH | OUTPUT | TVDF | N DEC | ALTERNATE NAME | INDEXED? |
| 1 | FNODE# | W1D111 4 | 5 | В | N.DEC | ADIEKNATE NAME | INDEXED: |
| 5 | TNODE# | 4 | 5 | В | _ | | _ |
| | LPOLY# | 4 | 5 | В | _ | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | _ |
| 25 | S7922WAD# | 4 | 5 | В | _ | | _ |
| 29 | S7922WAD-ID | 4 | 5 | В | _ | | _ |
| 33 | FEAT CODE | 12 | 12 | C | _ | | _ |
| 45 | Q INFO | 8 | 8 | C | _ | | _ |
| 53 | SYMBOL | 4 | 5 | В | _ | | _ |
| | 211.202 | - | J | _ | | | |
| ***** | ***** | ***** | ****** | **** | ***** | ****** | ***** |
| S7922W | AD.PAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | _ |
| 17 | S7922WAD# | 4 | 5 | В | _ | | _ |
| 21 | | 4 | 5 | В | _ | | _ |
| 25 | | 12 | | Č | _ | | _ |
| 37 | - | 50 | 50 | Ċ | _ | | _ |
| 87 | PERENNIAL | 1 | 1 | Ī | _ | | _ |
| 88 | HIERARCHY | 1 | 1 | Ī | _ | | _ |
| 89 | Q INFO | 8 | 8 | C | _ | | _ |
| 97 | SYMBOL | 4 | | В | _ | | _ |
| 101 | TEXT NOTE | 30 | 30 | C | _ | | _ |
| | | 50 | 20 | C | | | |
| ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |

| | AD.PAT TABLE | | | | | | |
|-----------------|--------------------------|----------------|----------------|---------------|------------|----------------|----------|
| COLUMN 1 | ITEM NAME AREA | WIDTH 8 | OUTPUT 18 | TYPE F | N.DEC 5 | ALTERNATE NAME | INDEXED? |
| 9 | PERIMETER | 8 | 18 | F | 5 | | _ |
| 17 | S7922XAD# | 4 | 5 | В | - | | - |
| 21 | S7922XAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | С | - | | - |
| 87 | WATERPOINT | 1 | 1 | I | - | | - |
| 88 | Q_{INFO} | 8 | 8 | С | - | | - |
| 96 | SYMBOL | 4 | | B | - | | - |
| 100 | FEAT_WID | 8 | | F | 4 | | - |
| 108 112 | ORIENTATION | 4 30 | | В С | - | | - |
| 112 | TEXT_NOTE | 30 | 30 | C | - | | _ |
| | | ***** | ****** | **** | ***** | ****** | ****** |
| S7922Y | AD.PAT TABLE | | | | | | |
| COLUMN | | | OUTPUT | | N.DEC | ALTERNATE NAME | INDEXED? |
| | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | S7922YAD# | 4 | 5 | В | - | | - |
| 21 25 | S7922YAD-ID FEAT CODE | 4 12 | 5 12 | В С | _ | | - |
| 37 | ELEVATION | 7 | 7 | N | 2 | | _ |
| 44 | CODE | 24 | | C | - | | |
| 68 | Q INFO | 8 | 8 | Ċ | _ | | _ |
| 76 | NAME | 50 | 50 | C | _ | | _ |
| 126 | SYMBOL | 4 | 5 | В | _ | | _ |
| 130 | FEAT WID | 8 | 10 | F | 4 | | _ |
| 138 | ORIENTATION | 4 | 5 | В | - | | - |
| 142 | $TEXT_NOTE$ | 30 | 30 | C | - | | - |
| 172 | ORDER | 4 | 4 | С | - | | - |
| ***** | ****** | ***** | ***** | **** | ***** | ****** | ***** |
| S7922Z | AD.AAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | - | | _ |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | S7922ZAD# | 4 | 5 | В | - | | - |
| 29 | S7922ZAD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 53 | Q_INFO SYMBOL | 8 | 8 5 | C B | - | | - |
| | | ***** | ***** | ***** | ***** | ***** | ***** |
| S7922Z | AD.PAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | - |
| 17 | S7922ZAD# | 4 | 5 | В | - | | - |
| 21 | S7922ZAD-ID | 4 | 5 | В | - | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | С | - | | - |
| 87 | FACILITY | 1 | 1 | I | - | | - |
| 88 | Q_INFO | 8 | 8 | C | - | | - |
| 96 | SYMBOL | 4 | 5 | В | _ | | _ |

96 SYMBOL

5

В

4

| ~~~ | | | | | | | | |
|---|--|--|--|---|--------------------------------------|--|-------|---|
| COLUMN | | | OUTPUT | | | ALTERNATE | NAME | |
| | FNODE# | 4 | 5 | В | - | | | _ |
| 5 | TNODE# | 4 | 5 | В | - | | | _ |
| | LPOLY# | 4 | 5 | В | - | | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | | - |
| 17 | LENGTH | 8 | | F | 5 | | | - |
| 25 | S79221AD# | 4 | 5 | В | - | | | - |
| 29 | S79221AD-ID | 4 | 5 | В | - | | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | | - |
| 45 | Q_INFO | 8 | 8 | C | - | | | - |
| 53 | SYMBOL | 4 | | B | - | | | - |
| 57 | FEAT_WID | 8 | 10 | F | 4 | | | - |
| 65 | TEXT_NOTE | 50 | 50 | C | - | | | - |
| | ************************************** | ***** | ***** | **** | ***** | ****** | ***** | ***** |
| | TEEN | | 0.1 | | N DEG | 3.1.0000000000 | | |
| COLUMN | | | OUTPUT | | N.DEC | ALTERNATE | NAME | INDEXED? |
| | AREA | 8 | 18 | F | 5 | | | - |
| | PERIMETER | 8 | 18 | F | 5 | | | - |
| | S79221AD# | 4 | 5 | В | - | | | _ |
| | S79221AD-ID | 4 | 5 | В | - | | | _ |
| | FEAT_CODE | 12 | 12 | C | - | | | - |
| | NAME | 50 | 50 | С | - | | | - |
| 87 | AUTHORITY | 4 | | I | - | | | - |
| 91 | Q_INFO | 8 | 8 | C | - | | | - |
| 99 | SYMBOL | 4 | 5 | В | - | | | - |
| | ************************************** | ***** | ***** | **** | ***** | ****** | ***** | ***** |
| | | | | | | | | |
| COLUMN | | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | - | | | - |
| 5 | TNODE# | 4 | 5 | В | - | | | - |
| _ | | | | | | | | |
| 9 | LPOLY# | 4 | 5 | В | _ | | | - |
| 13 | LPOLY# RPOLY# | 4 4 | 5 5 | B B | - | | | - |
| | | | | | - 5 | | | - - - |
| 13 | RPOLY# | 4 | 5 | В | - 5 - | | | - - - |
| 13 17 | RPOLY# LENGTH | 4 8 | 5 18 | B F | - 5 - - | | | - - - - |
| 13 17 25 | RPOLY# LENGTH S79222AD# | 4 8 4 | 5 18 5 | B F B | - 5 - - | | | - - - - - |
| 13 17 25 29 | RPOLY# LENGTH S79222AD# S79222AD-ID | 4 8 4 4 | 5 18 5 5 | B F B | - 5 - - - 2 | | | - - - - - |
| 13 17 25 29 33 45 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION | 4 8 4 4 12 | 5 18 5 5 12 7 | B F B C | - - - | | | - - - - - |
| 13 17 25 29 33 45 52 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR | 4 8 4 4 12 7 | 5 18 5 5 12 7 | B F B C N | - - - | | | - - - - - - |
| 13 17 25 29 33 45 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION | 4 8 4 12 7 1 | 5 18 5 5 12 7 | B F B C N I | - - - | | | - - - - - - - |
| 13 17 25 29 33 45 52 53 61 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL | 4 8 4 12 7 1 8 4 | 5 18 5 5 12 7 1 8 | В В В С N І С В | - - 2 - - | ***** | **** | - - - - - - - - |
| 13 17 25 29 33 45 52 53 61 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL | 4 8 4 12 7 1 8 4 | 5 18 5 5 12 7 1 8 | В В В С N І С В | - - 2 - - | ***** | **** | - - - - - - - ****** |
| 13 17 25 29 33 45 52 53 61 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL ************************************ | 4 8 4 12 7 1 8 4 | 5 18 5 5 12 7 1 8 | B F B C N I C B | - - 2 - - - - | ************************************** | | |
| 13 17 25 29 33 45 52 53 61 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL ************************************ | 4 8 4 12 7 1 8 4 | 5 18 5 5 12 7 1 8 5 | B F B C N I C B | - - 2 - - - - | | | |
| 13 17 25 29 33 45 52 53 61 | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL ************************************ | 4 8 4 4 12 7 1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 5 18 5 5 12 7 1 8 5 | B F B B C N I C B | - - 2 - - - - | | | |
| 13 17 25 29 33 45 52 53 61 ******* | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL ************************************ | 4 8 4 4 12 7 1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 5 18 5 5 12 7 1 8 5 | B F B B C N I C B | - - 2 - - - ****** | | | |
| 13 17 25 29 33 45 52 53 61 *********************************** | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL *********************************** | 4 8 4 4 12 7 1 8 4 4 4 4 WIDTH 4 4 4 | 5 18 5 5 12 7 1 8 5 ******* | B F B B C N I C B | 2 2 N.DEC | | | |
| 13 17 25 29 33 45 52 53 61 *********************************** | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL *********************************** | 4 8 4 4 12 7 1 8 4 4 4 4 4 4 4 4 4 4 | 5 18 5 5 12 7 1 8 5 ********************************* | B F B B C N I C B | - 2 2 | | | |
| 13 17 25 29 33 45 52 53 61 *********************************** | RPOLY# LENGTH S79222AD# S79222AD-ID FEAT_CODE ELEVATION CONTOUR Q_INFO SYMBOL *********************************** | 4 8 4 4 4 12 7 7 1 8 4 4 4 4 4 4 4 4 4 4 | 5 18 5 5 12 7 1 8 5 ********************************* | B F B B C N I C B | | | | |

29 S79223AD-ID **33 FEAT_CODE**

45 Q_INFO
53 SYMBOL
57 FEAT_WID

65 TEXT_NOTE

С

C B

F

12

84
8

50

12

8 5

10

50

| ***** | ****** | ***** | ***** | **** | ***** | ****** | ***** |
|--|--|---|---|---|-------------------------|--|----------|
| S79223 | AD.PAT TABLE | | | | | | |
| COLUMN | ITEM NAME | нтаты | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | AREA | 8 | 18 | F | 5 | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | _ |
| 17 | S79223AD# | 4 | 5 | В | _ | | _ |
| 21 | S79223AD# S79223AD-ID | 4 | 5 | В | _ | | _ |
| | | | | | _ | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | - |
| 37 | NAME | 50 | 50 | C | - | | - |
| 87 | AUTHORITY | 4 | 4 | I | - | | - |
| 91 | Q_INFO | 8 | 8 | С | - | | - |
| 99 | SYMBOL | 4 | 5 | В | - | | - |
| ***** | ****** | ***** | ***** | **** | ***** | ****** | ***** |
| S79224 | AD.AAT TABLE | | | | | | |
| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
| 1 | FNODE# | 4 | 5 | В | _ | | _ |
| 5 | TNODE# | 4 | 5 | В | _ | | _ |
| 9 | LPOLY# | 4 | 5 | В | _ | | _ |
| 13 | RPOLY# | 4 | 5 | В | _ | | _ |
| 17 | LENGTH | 8 | 18 | F | 5 | | _ |
| 25 | S79224AD# | 4 | 5 | В | _ | | _ |
| 29 | S79224AD-ID | 4 | 5 | В | _ | | _ |
| 33 | FEAT CODE | 12 | 12 | Č | _ | | _ |
| 45 | Q INFO | 8 | 8 | Ċ | _ | | _ |
| 53 | SYMBOL | 4 | 5 | В | _ | | _ |
| 5 <i>7</i> | TEXT NOTE | 30 | 30 | C | _ | | _ |
| | | | | | | | |
| | ***************** | ***** | ***** | **** | ***** | ****** | ***** |
| s79225 | AD.AAT TABLE | | | | | | |
| | AD.AAT TABLE | | OUTPUT | | ****** N.DEC - | ************************************** | |
| S79225 | AD.AAT TABLE ITEM NAME FNODE# | WIDTH | OUTPUT 5 | TYPE | | | |
| \$79225 COLUMN 1 5 | AD.AAT TABLE ITEM NAME FNODE# TNODE# | WIDTH 4 4 | OUTPUT 5 5 | TYPE B B | | | |
| S79225 COLUMN 1 5 9 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# | WIDTH 4 4 4 | OUTPUT 5 5 5 | TYPE B B B | | | |
| S79225 COLUMN 1 5 9 13 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# | WIDTH 4 4 4 4 | OUTPUT 5 5 5 5 | TYPE B B B B | N.DEC - - - - | | |
| \$79225 COLUMN 1 5 9 13 17 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH | WIDTH 4 4 4 4 8 | OUTPUT 5 5 5 5 18 | TYPE B B B B | | | |
| \$79225 COLUMN 1 5 9 13 17 25 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD# | WIDTH 4 4 4 4 8 | OUTPUT 5 5 5 5 18 5 | TYPE B B B F B | N.DEC - - - - | | |
| S79225 COLUMN 1 5 9 13 17 25 29 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD# S79225AD-ID | WIDTH 4 4 4 4 8 4 | OUTPUT 5 5 5 5 18 5 5 5 | TYPE B B B B F B | N.DEC - - - - | | |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD# S79225AD-ID FEAT_CODE | WIDTH 4 4 4 4 8 4 4 12 | OUTPUT 5 5 5 5 18 5 5 12 | TYPE B B B B B F B | N.DEC - - - - | | |
| S79225 COLUMN 1 5 9 13 17 25 29 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD# S79225AD-ID FEAT_CODE | WIDTH 4 4 4 4 8 4 | OUTPUT 5 5 5 5 18 5 12 5 | TYPE B B B B F B | N.DEC - - - - | | |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 | ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD+ S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE | WIDTH 4 4 4 4 4 8 4 4 12 4 30 | OUTPUT 5 5 5 5 18 5 12 5 30 | TYPE B B B B F B C B C | N.DEC 5 | | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 | ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD+ S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE | WIDTH 4 4 4 4 4 8 4 4 12 4 30 | OUTPUT 5 5 5 5 18 5 12 5 30 | TYPE B B B B F B C B C | N.DEC 5 | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD+ S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 12 4 30 ********************************** | OUTPUT 5 5 5 5 18 5 5 12 5 30 ******* | TYPE B B B F B C C TYPE | N.DEC 5 ****** | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 12 4 30 ********************************** | OUTPUT 5 5 5 5 18 5 5 12 5 30 ********************************** | TYPE B B B F B C C TYPE F | N.DEC 5 ****** | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 12 4 30 ********************************** | OUTPUT 5 5 5 18 5 12 5 30 ********* OUTPUT 18 18 | TYPE B B B F B C C TYPE F F | N.DEC 5 ****** | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ****** \$79225 COLUMN 1 9 17 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD+ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 12 4 30 ********************************** | OUTPUT 5 5 5 18 5 12 5 30 ********* OUTPUT 18 18 5 | TYPE B B B F B C C TYPE F F B | N.DEC 5 ****** | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 17 21 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 12 4 30 ********** WIDTH 8 8 8 4 4 | OUTPUT 5 5 5 18 5 12 5 30 ********* OUTPUT 18 18 5 5 | TYPE B B B F B C C TYPE F F B B | N.DEC 5 ****** | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 17 21 25 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 12 4 30 ********* WIDTH 8 8 4 4 12 | OUTPUT 5 5 5 18 5 12 5 30 ********* OUTPUT 18 18 5 5 12 | TYPE B B B F B C C TYPE F F B B C | N.DEC 5 ****** | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 17 21 25 37 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 30 ******** WIDTH 8 8 4 4 12 4 12 4 12 4 4 | OUTPUT 5 5 5 18 5 12 5 30 ******** OUTPUT 18 18 5 5 12 5 | TYPE B B F B C C TYPE F F B C B C B | N.DEC | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 17 21 25 37 41 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 30 ********* WIDTH 8 8 4 4 12 4 12 4 8 | OUTPUT 5 5 5 18 5 5 12 5 30 *********** OUTPUT 18 18 5 5 12 5 10 | TYPE B B B F B B C B C TYPE F F B B C B F | N.DEC ******* N.DEC 5 4 | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 17 21 25 37 41 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 30 ******** WIDTH 8 8 4 4 12 4 12 4 12 4 4 | OUTPUT 5 5 5 18 5 12 5 30 ******** OUTPUT 18 18 5 5 12 5 | TYPE B B F B C C TYPE F F B C B C B | N.DEC | ALTERNATE NAME | INDEXED? |
| \$79225 COLUMN 1 5 9 13 17 25 29 33 45 49 ***** \$79225 COLUMN 1 9 17 21 25 37 41 49 | AD.AAT TABLE ITEM NAME FNODE# TNODE# LPOLY# RPOLY# LENGTH S79225AD-ID FEAT_CODE SYMBOL TEXT_NOTE *********************************** | WIDTH 4 4 4 4 4 4 30 ********* WIDTH 8 8 4 4 12 4 12 4 8 | OUTPUT 5 5 5 18 5 12 5 30 ******** OUTPUT 18 18 5 5 12 5 10 5 | TYPE B B B F B B C B C TYPE F F B B C B F | N.DEC ******* N.DEC 5 4 | ALTERNATE NAME | INDEXED? |

| ירסקים | 2 C 7 D | 770 | TABLE |
|--------|---------|-------|-------|
| 3/7/ | ADAD. | . AAI | TADLE |

| COLUMN | ITEM NAME | WIDTH | OUTPUT | \mathtt{TYPE} | N.DEC | ALTERNATE NAME | INDEXED? | |
|---------------------------|-------------|-------|--------|-----------------|-------|----------------|----------|--|
| 1 | FNODE# | 4 | 5 | В | - | | - | |
| 5 | TNODE# | 4 | 5 | В | - | | - | |
| 9 | LPOLY# | 4 | 5 | В | - | | - | |
| 13 | RPOLY# | 4 | 5 | В | - | | - | |
| 17 | LENGTH | 8 | 18 | F | 5 | | - | |
| 25 | S79226AD# | 4 | 5 | В | - | | - | |
| 29 | S79226AD-ID | 4 | 5 | В | - | | - | |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - | |
| 45 | SYMBOL | 4 | 5 | В | - | | - | |
| ************************* | | | | | | | | |

S79227AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | S79227AD# | 4 | 5 | В | - | | - |
| 29 | S79227AD-ID | 4 | 5 | В | - | | - |
| 33 | FEAT_CODE | 12 | 12 | C | - | | - |
| 45 | SYMBOL | 4 | 5 | В | - | | - |

S79228AD.AAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE NAME | INDEXED? |
|--------|--------------|-------|--------|------|-------|----------------|----------|
| 1 | FNODE# | 4 | 5 | В | - | | - |
| 5 | TNODE# | 4 | 5 | В | - | | - |
| 9 | LPOLY# | 4 | 5 | В | - | | - |
| 13 | RPOLY# | 4 | 5 | В | - | | - |
| 17 | LENGTH | 8 | 18 | F | 5 | | - |
| 25 | S79228AD# | 4 | 5 | В | - | | - |
| 29 | S79228AD-ID | 4 | 5 | В | - | | - |
| 33 | $FEAT_CODE$ | 12 | 12 | C | - | | - |

S79228AD.PAT TABLE

| COLUMN | ITEM NAME | WIDTH | OUTPUT | TYPE | N.DEC | ALTERNATE | NAME | INDEXED? |
|--------|-------------|-------|--------|------|-------|-----------|------|----------|
| 1 | AREA | 8 | 18 | F | 5 | | | - |
| 9 | PERIMETER | 8 | 18 | F | 5 | | | - |
| 17 | S79228AD# | 4 | 5 | В | - | | | - |
| 21 | S79228AD-ID | 4 | 5 | В | - | | | - |
| 25 | FEAT_CODE | 12 | 12 | C | - | | | - |