

GeoBC Atlas

(GBA-SITE)

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# Site Rules

The following rules validate the addresses for sites that have USE\_IN\_ADDRESS\_RANGE\_IND = 'Y'.

### TRANSPORT\_LINE\_ID

* The TRANSPORT\_LINE\_ID should be the closest demographic TRANSPORT\_LINE to the site with at least one common STRUCTURED\_NAME. If currently null the value will be set to the closest.
* If no close TRANSPORT\_LINE is found the 'Site Point No Transport Line < 100m' error will be added. The TRANSPORT\_LINE can be manually set and an exclusion to the new rule created.
* The STRUCTURED\_NAME\_1\_ID and STRUCTURED\_NAME\_2\_ID on the site should be the same as the STRUCTURED\_NAME\_1\_ID and STRUCTURED\_NAME\_2\_ID on the TRANSPORT\_LINE. An exclusion to this rule can be created for each field. The site can have null for STRUCTURED\_NAME\_2\_ID even if the STRUCTURED\_NAME\_2\_ID is specified for the TRANSPORT\_LINE.

1. Unit Descriptor

The UNIT\_DESCRIPTOR field represents the number/description of a single unit or all the units at a site.

The following table describes the different types of units and how they can be constructed into lists or ranges of units.

|  |  |  |
| --- | --- | --- |
| Type | Description | Examples |
| Single unit letter | An upper case letter representing a single unit number. | * A * B * Z |
| Single unit number | A number representing a |  |
| Single unit number with prefix | A unit number with an letter prefix. The prefix could represent a building. | * A1 * G10 |
| Single unit number with suffix | A unit number with a letter suffix. | * 1A * 5B |
| Single unit type | An upper case string representing a type of unit. | * LF (Lower Floor) * UF (Upper Floor) * PH (Penthouse) * CH (Coach-house) |
| Single unit with type | A unit with an upper case unit type prefix. A space between the type and the unit. | * BAY 1 * MILE 10 * MILE 10 1/2 |
| Single free form unit | Some other description of the unit. Would require an exception |  |
| Range of unit numbers | Two numbers separated by a hyphen (-) representing all the numbers between those numbers. The lowest number must be first. | * 1-3 (1, 2, 3) * 10-15 (10, 11, 12, 13, 14, 15) |
| Range of unit letters | Two upper case letters separated by a hyphen (-) representing all the letters between those letters. The lowest letter must be first. | * A-B (A, B) * A-D (A, B, C, D) |
| Composite range | A composite range is a series of unit or unit ranges separated by a + character. For numeric ranges prefix the number with a 0 to have the number padded (e.g. 9+1 = 91 9+01 = 901). Every combination of all the ranges is evaluated to create the full list of units. | * G+1-4 (G1, G2, G3, G4) * 9-10+01-03 (901, 902, 903, 1001, 1002, 1003) |
| List of unit descriptors | Comma separated list (no space before/after the comma) of any of the above types of unit descriptor. | * A,B * 1-9,10-19 * LOWER,UPPER |
| Brackets | Within a composite range or list of unit descriptors brackets () can be used to group parts of the descriptor. This controls the precedence of the operators. For example G+A,B gives the units GA, B. G+(A,B) gives the units GA, GB. | * G+(A,B,C,D) |

1. Addressable Sites

The following table summarises how to encode different types of addressable sites. The encoding covers which fields to populate and the fields required for sub-sites.

| Type | Sub-site | Unit | Number | Suffix | Comments |
| --- | --- | --- | --- | --- | --- |
| * Single Family Home * Detached Commercial Unit/Area | No |  | 120 |  |  |
| * Single Family Home (Split lot) | Maybe |  | 200 | * A * 1/2 | * If the second home is part of the same ownership then the record is a sub-site. Otherwise it will be an independent site. * For sub-sites. * One record for the Single Family home without CIVIC\_NUMBER\_SUFFIX. * One record for each suite with the CIVIC\_NUMBER\_SUFFIX and PARENT\_SITE\_ID of the site for the complex. CIVIC\_NUMBER, STRUCTURED\_NAME\_ID must be the same. |
| * Single Family Home (Suite) | Yes | * A * B * UF * LF * CH | 120 |  | * Must have one record for the Single Family home without UNIT\_DESCRIPTOR. This may also represent the main unit if that does not have a UNIT\_DESCRIPTOR. * Must have one record for each suite with the UNIT\_DESCRIPTOR and PARENT\_SITE\_ID of the site for the complex. CIVIC\_NUMBER, STRUCTURED\_NAME\_ID must be the same. |
| * Multiple Dwelling Separate Entrance (Townhome, Duplex, Triplex, Quadplex) with separate civic number for each unit * Commercial Unit Separate Entrance with civic number for each unit | Maybe |  | * 45 * 46 * 47 |  | * May have one record without an address for the (strata) complex if there is a known name for the complex. Set SITE\_NAME\_1=complex name. Make each unit a sub-site of the complex. * Must have one record for each unit with the CIVIC\_NUMBER. May have PARENT\_SITE\_ID of the site for the complex. |
| * Multiple Dwelling Separate Entrance (Townhome, Duplex, Triplex, Quadplex) with civic number suffix for each unit * Commercial Unit Separate Entrance with civic number suffix for each unit | Yes |  | 45 | * A * B * C * D | * Must have one record for the (strata) complex without a UNIT\_DESCRIPTOR & CIVIC\_NUMBER\_SUFFIX. Set SITE\_NAME\_1=complex name. * Must have a record for each unit with the CIVIC\_NUMBER\_SUFFIX and PARENT\_SITE\_ID of the site for the complex. CIVIC\_NUMBER, STRUCTURED\_NAME\_ID must be the same. |
| * Multiple Dwelling Separate Entrance (Townhome, Duplex, Triplex, Quadplex) with unit descriptor for each unit * Commercial Unit Separate Entrance with unit descriptor for each unit | Yes | * 1 * 2 * A * B | 45 |  | * Must have one record for the complex without UNIT\_DESCRIPTOR. * Must have a record for each unit with the UNIT\_DESCRIPTOR and PARENT\_SITE\_ID of the site for the complex. CIVIC\_NUMBER, CIVIC\_NUMBER\_SUFFIX, STRUCTURED\_NAME\_ID must be the same. |
| * Multiple Dwelling Shared Entrance (Apartment, Condo) * Commercial units Shared Entrance (Tower, Low/Mid rise, Mixed use) | Mabe | * 1-10 * G+1-10 * 1-20+01-08 | 1055 |  | * May (but not required) have one record for the building without a UNIT\_DESCRIPTOR. Other sites will be a sub-site. * Units are defined using a ranges, composites, and/or lists. * May have multiple sub-sites if the building has different sub-buildings or if a particular unit needs additional attribution. * The building may have a CIVIC\_NUMBER\_SUFFIX |
| * Multiple Sub-sites for buildings and rooms | Yes | * University of Victoria * Clearihue Building * 103A | 3800 |  | * Must have one record for the whole site with the CIVIC\_NUMBER. If the site name is to be included in the address set USE\_SITE\_NAME\_IN\_ADDRESS\_IND=Y. * Must have one record for each building on the site with the SITE\_NAME\_1 = the building name, USE\_SITE\_NAME\_IN\_ADDRESS\_IND=Y and PARENT\_SITE\_ID of the parent site. CIVIC\_NUMBER, STRUCTURED\_NAME\_ID must be the same. The UNIT\_DESCRIPTOR can be used to include the units within the building. * May also have sub sites for units in a building. But this is not required. |

* 1. Example Site Addresses

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Parent | Unit | Number | Suffix | Name | Site Name | Site Name in Addr | Full Address[[1]](#footnote-1) |
| 1 |  |  | 100 |  | Main St |  |  | 100 Main St |
| 2 |  |  | 1560 | A | 1st Ave |  |  | 100A 1st Ave |
| 3 |  |  | 123 | 1/2 | Broadway |  |  | 123 1/2 Broadway |
| 4 |  |  | 600 |  | St. George's St |  |  | 600 St. George's St |
| 5 | 4 | A | 600 |  | St. George's St |  |  | A  600 St. George's St |
| 6 | 4 | B | 600 |  | St. George's St |  |  | B  600 St. George's St |
| 7 |  |  | 1234 |  | Javalynn Cres |  |  | 1234 Javalynn Cres |
| 8 | 7 | LF | 1234 |  | Javalynn Cres |  |  | LF  1234 Javalynn Cres |
| 9 |  |  |  |  | Maple St | Maple Villas |  |  |
| 10 | 9 |  | 1602 |  | Maple St |  |  | 1602 Maple St |
| 11 | 9 |  | 1604 |  | Maple St |  |  | 1602 Maple St |
| 12 |  |  | 4500 |  | Earls Crt | Earls Manor |  | 4500 Earls Crt |
| 13 | 12 |  | 4500 | A | Earls Crt |  |  | 4500 A Earls Crt |
| 14 | 12 |  | 4500 | B | Earls Crt |  |  | 4500 B Earls Crt |
| 15 |  |  | 1955 |  | Cedar Village Cres |  |  | 1955 Cedar Village Cres |
| 16 | 15 | 1 | 1955 |  | Cedar Village Cres |  |  | 1  1955 Cedar Village Cres |
| 17 | 15 | 30 | 1955 |  | Cedar Village Cres |  |  | 30  1955 Cedar Village Cres |
| 18 |  | 1-50 | 3500 |  | Ioco Rd |  |  | 1-50  3500 Ioco Rd |
| 19 |  | 2-18+00-09 | 1055 |  | Richards St | Donovan |  | 2-18+00-09  1055 Richards St |
| 20 | 19 | 1 | 1055 |  | Richards St |  |  | 1  1055 Richards St |
| 21 |  | G+1-20 |  |  | Hollyburn Dr |  |  | G+1-20  Hollyburn Dr |
| 22 |  |  | 3800 |  | Finnerty Rd | University of Victoria | Yes | University of Victoria  3800 Finnerty Rd |
| 23 | 22 |  | 3800 |  | Finnerty Rd | Clearihue Building | Yes | Clearihue Building  University of Victoria  3800 Finnerty Rd |
| 24 | 23 | 103A | 3800 |  | Finnerty Rd |  |  | 103A  Clearihue Building  University of Victoria  3800 Finnerty Rd |
| 25 | 22 | 1-10 | 3800 |  | Finnerty Rd | Cunningham Building | Yes | 1-10  Cunningham Building  University of Victoria  3800 Finnerty Rd |

1. Persistent Identifiers

Persistent Identifiers can be created using a Version 5 SHA1 hash and namespace UUID. The namespace can be anything you want as long as it's a constant (e.g. GBA-SITE).

To calculate a UUID for a site without a unit.

String siteId = site.getString("SITE\_ID");

UUID uniqueIdentifier = UUID.sha1("GBA-SITE", siteId);

To calculate a UUID for a site without a unit and parent site.

String parentSiteId = site.getString("PARENT\_SITE\_ID");

String unit = site.getString("UNIT\_DESCRIPTOR");

UUID uniqueIdentifier = UUID.sha1("GBA-SITE", parentSiteId +"," + unit);

To calculate a UUID for a site with list of units on a single site.

String siteId = site.getString("SITE\_ID");

String unitDescriptor = site.getString("UNIT\_DESCRIPTOR");

for (String unit : split(unitDescriptor)) {

UUID uniqueIdentifier = UUID.sha1("GBA-SITE", siteId +"," + unit);

}

1. In the Full Address [↑](#footnote-ref-1)