**MetroGIS Address Points Database Specifications**

*Proposed changes for MetroGIS Address Workgroup meeting 8/31/16*

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The database format for the MetroGIS Address Points Dataset is derived primarily from the Content portion of the [United States Thoroughfare, Landmark, and Postal Address Data Standard](http://www.fgdc.gov/standards/projects/FGDC-standards-projects/street-address/index_html). Some additional data elements have been added to satisfy data needs at the local level.

The MetroGIS Address Points Dataset will consist of a geospatial points (e.g. a point shapefile) with the attribute fields listed below. All fields are required to be in the dataset. Those listed as optional are not required to be populated. All other fields are required to be populated where they apply to the address. For example, many addresses do not have occupancy types and thus occupancy type is a Conditional element and would not apply to those addresses. All records will consist of mixed case where applicable unless specifically stated otherwise within each element description.

# Database Fields

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **National Standard Element** | **Element Name** | **Database Field Name** | **Domain****Name** | **Field Type** | **Field Width** | **Inclusion** |
| 2.3.1.1 | Address Unique Identifier | UNIQUE\_ID  |  | Text | 100  | Mandatory |
|  | Local Address Unique Identifier | ADD\_ID\_LOC |  | Text | 50 | Conditional |
| 2.2.1.1 | Address Number Prefix | ANUMBERPRE |  | Text | 15  | Conditional |
| 2.2.1.2 | Address Number | ANUMBER |  | Integer | 6  | Mandatory |
| 2.2.1.3 | Address Number Suffix | ANUMBERSUF |  | Text | 15  | Conditional |
| 2.2.2.4 | Separator Element | ASEPARATOR  |  | Text | 20  | Conditional |
| 2.2.2.1 | Street Name Pre Modifier | ST\_PRE\_MOD |  | Text | 15  | Conditional |
| 2.2.2.2 | Street Name Pre Directional  | ST\_PRE\_DIR | Address\_Direction | Text | 9 | Conditional |
| 2.2.2.3 | Street Name Pre Type  | ST\_PRE\_TYP |  | Text | 25  | Conditional |
| 2.2.2.5 | Street Name | ST\_NAME |  | Text | 60  | Mandatory |
| 2.2.2.6 | Street Name Post Type | ST\_POS\_TYP | Address\_PostType | Text | 15  | Conditional |
| 2.2.2.7 | Street Name Post Directional | ST\_POS\_DIR | Address\_Direction | Text | 9 | Conditional |
| 2.2.2.8 | Street Name Post Modifier | ST\_POS\_MOD |  | Text | 12 | Conditional |
| 2.2.4.1 | Subaddress Type 1 | SUB\_TYPE1 |  | Text | 12 | Conditional |
| 2.2.4.2 | Subaddress Identifier 1 | SUB\_ID1 |  | Text | 12 | Conditional |
| 2.2.4.1 | Subaddress Type 2 | SUB\_TYPE2 |  | Text | 12 | Conditional |
| 2.2.4.2 | Subaddress Identifier 2 | SUB\_ID2 |  | Text | 12 | Conditional |
| Multi | Municipal Jurisdiction Name | MUNI\_NAME | GNIS\_CTU | Text | 100  | Mandatory |
| Multi | Municipal Jurisdiction Code | MUNI\_CODE | GNIS\_CTU | Text | 8 | Mandatory |
| Multi | Postal Community Name  | POSTCOMM  |  | Text | 40  | Optional |
| None | County Code | CO\_CODE | ANSI\_County | Text | 5  | Mandatory |
| Multi | County Name | CO\_NAME | ANSI\_County | Text | 40  | Mandatory |
| 2.2.6.3 | State Code | STATE\_CODE | ANSI\_State | Text | 2 | Mandatory |
| 2.2.6.4 | ZIP Code | ZIP |  | Text | 5 | Mandatory |
| 2.2.6.5 | ZIP Plus 4 | ZIP4 |  | Text | 4 | Optional |
| 2.3.7.8 | Location Description | LOC\_DESC |  | Text | 255  | Optional |
| 2.2.5.2 | Complete Landmark Name | LANDMARK |  | Text | 150  | Optional |
| None | Residence | RESIDENCE | Yes\_No\_Unknown | Text | 10 | Optional |
| 2.3.7.9 | Mailable Address | MAILABLE | Yes\_No\_Unknown | Text | 10 | Optional |
| 2.3.7.3 | Lifecycle Status | STATUS | Lifecycle | Text | 10 | Optional |
| 2.2.3.2 | Parcel Unique Identifier | PIN |  | Text | 17 | Optional |
| 2.3.2.3 | Longitude | LONGITUDE |  | Real | double | Mandatory |
| 2.3.2.4 | Latitude | LATITUDE |  | Real | double | Mandatory |
| None | Placement Method  | PLACEMENT  | See NENA domain  | Text  | 25  | Optional |
| 1.8.5.3 | Source of Data  | SOURCE  |  | Text | 75  | Optional |
| 2.3.1.2 | Address Authority | AAUTHORITY |  | Text | 40 | Mandatory |
| None | Editing Organization | EDIT\_ORG |  | Text | 40 | Optional |
| None | Edited Date  | EDITED\_DT  |  | Date |  | Mandatory |
| None | Comments | COMMENTS |  | Text | 254 | Optional |

\* See Appendix B for a draft XML formatting template.

**Additional 911 elements not included in MetroGIS Specs.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **FGDC Name** | **MN 911 Element Name** | **911 Database Field Name** | **911 Data Type** | **911 Width** | **MN 911 Domain** | **911 Inclusion** |
|  | Not Centerline Geocodable | NOC\_GEO | Text | 7 | Yes\_No\_ Unknown | Mandatory |
| *Address Start Date* | Effective Date | EFF\_DATE | Date |  |   | Conditional |
| *Address End Date* | Expiration Date | EXP\_DATE | Date |  |   | Conditional |
|  | Emergency Service Number | ESN | Text | 5 |   | Mandatory |
|  | MSAG Community Name | MSAG\_C | Text | 30 | Y | Mandatory |
|  | Additional Data URI | ADDDATAURI | Text | 254 |   | Conditional |
|  | Milepost | MILEPOST | Text | 150 |   | Conditional |
|  | Place Type | PLACE\_TYPE | Text | 50 | Y | Optional |
|  | Elevation | ELEV | Long Integer | 6 |   | Optional |
|  | Legacy Street Prefix Directional | LST\_PREDIR | Text | 2 |   | Conditional |
|  | Legacy Street Name | LST\_NAME | Text | 75 |   | Conditional |
|  | Legacy Street Post Type | LST\_POSTYP | Text | 10 |   | Conditional |
|  | Legacy Street Post Directional | LST\_POSDIR | Text | 2 |   | Conditional |
|  | US National Grid Code | USNG\_CODE | Text | 10 |   | Optional |

## Additional Data Uniform Resource Identifier (URI)

**Description:** URI(s) for additional data associated with the site/structure address point. This attribute is contained in the Site/Structure Address Points layer and will define the Service Uniform Resource Identifier of additional information about a location, including building information (blueprints, contact info, floor plans, etc.).

**Domain:** List of one or more URIs

**Example:** https://addl68603.example.com

## Mile Post

**Description:** A numeric measurement from a given beginning point, which may or may not be an actual mile post. Mile post numbers are useful for specifying locations along interstate highways, recreational trails, navigable waterways and other unaddressed routes, as well as stretches of county, state, federal, and other routes where distance measurements are posted. Mile post numbers may be used in place of, or in addition to, Address Numbers.

**Domain:** None

**Example:** 13; 327.5

## Place Type

**Description:** The type of feature identified by the address.

**Domain:** RFC 4589 (<http://tools.ietf.org/rfc/rfc4589.txt>) is the Registry of Location Types, but the registry can be extended through a formal IANA process defined in Section 5.1 of RFC 4589

**Example**: Airport; bank; café; club; office; hotel

# Element Descriptions

**Address Unique Identifier (UNIQUE\_ID ), Text, width 100**

**Local Address Unique Identifier (ADD\_ID\_LOC), Text, width 50**

2.3.1.1 Address ID: *The unique identification number assigned to an address by the addressing authority.*

Each address record must have a unique ID. This will distinguish it from any other record in the local or national database. It will also allow other datasets to be related to the address database (e.g. landmark names, contact phone number, existence of lifesaving equipment/defibrillator, existence of hazardous waste, etc.).

Note: While the draft national standard specifies “number” in the definition, it also includes examples that are not numbers. MetroGIS will allow non-numeric identifiers.

**Local vs. National Unique ID**

Each unique official address authority that participates in the MetroGIS Regional Address Dataset must maintain a unique identifier for each address point record. The formatting and structure of that unique identifier is completely at the discretion of the local address authority as long as the ID can be converted to a 50 character text field in the MetroGIS dataset without losing its uniqueness. Because this data will be used at a state or national level, it is necessary to have a nationally unique address ID in the MetroGIS regional dataset. If the local address authority or partnering county does not already have a procedure to create a nationally unique ID, this may be accomplished by appending the GNIS unique ID for the city or township (**in the 8 character text with leading zeros Census format**) and a dash to the beginning of the local unique ID. It must be stressed that the GNIS code is meaningless once placed in the unique ID.

**Permanence Recommendations**

The following are recommended by MetroGIS, but are not required to participate in the Regional Address Points Dataset. Unique IDs should not be reused if they are retired. Unique IDs should not be changed unless there is a change to the geographic feature (occupiable unit) itself. For example, if a street name changes, the street name field of the address record should change, but not the unique ID. If the parcel in which the unit resides is split and the parcel receives a new parcel ID, the unique ID of the address point should not change. If an annexation causes an address point to change jurisdiction from one city or township to another, it is desirable that the unique ID remain the same. It is realized, however, that this may place a burden on local address authorities, especially in the last example. Each address authority will need to determine for itself to what degree it should adhere to these recommendations.

# Address Number Elements

This portion of the address could be defined as one or multiple fields. The vast majority of addresses will consist of a simple integer for an address number. A few addresses, however, have a suffix (e.g. 189 ½, 1423B) and some might have a prefix. The National Standard breaks this down into four elements, the first and last of which might not exist in the metro area, but we will include in our pilot database.

**Address Number Prefix** (ANUMBERPRE):Text, width = 15

2.2.1.1 Address Number Prefix: Text *The portion of the complete address number which* ***precedes*** *the address number itself,*. (e.g. **A** 19 Calle 117, **N6W2** 3001 Bluemound Road).

**Address Number** (ANUMBER):Integer, width = 6

2.2.1.2 Address Number: Integer *The numeric identifier for a land parcel, house, building or other location along a thoroughfare or within a community*.

**Address Number Suffix** (ANUMBERSUF): Text, width = 15

2.2.1.3 Address Number Suffix: Text *The portion of the complete address number which* ***follows*** *the address number itself*. (e.g. 123 **1/2** Main Street, 456 **B** Wilson Street)

**Separator Element** (ASEPARATOR ): Text, width = 20

2.2.2.4 Separator Element: Text *A symbol, word or phrase used as a separator between components of a complex element or class. The separator is required for intersection addresses and for two number address ranges, and it may be used in constructing a complete street name or a complete address number*. (e.g. 61**-**43 Springfield Boulevard*). If a Complete Street Name includes a prepositional phrase between a Street Name Pre Type and a Street Name, the prepositional phrase is treated as a separator: "of the", "de la", "des", etc.*

# Street Elements

**Street Name Pre Modifier** (ST\_PRE\_MOD): Text, width = 15

2.2.2.1 Street Name Pre Modifier: Text *A word or phrase that precedes the street name and is not a street name pre directional or a street name pre type*. (e.g. 123 **Old** North First Street).

**Street Name Pre Directional** (ST\_PRE\_DIR): 9 character text field with fixed domain

2.2.2.2 Street Name Pre Directional: Text *A word preceding the street name that indicates the directional taken by the thoroughfare from an arbitrary starting point, or the sector where it is located*. (e.g. 1234 **North** Main Street).

Domain: Address\_Direction (*See Appendix A*)

**Street Name Pre Type** (ST\_PRE\_TYP): Text, width = 25

2.2.2.3 Street Name Pre Type: Text *The element of the complete street name* ***preceding*** *the street name element that indicates the type of street*. (e.g. 1500 **Highway** 52, **Avenue** at Port Imperial, 901 **Boulevard** of the Allies)

**Highways and County Roads.**

The draft national standard does include the following language in the notes for the Street Name Pre Type element:

* Domain of Values for this Element: *Although not recognized as street name pre types, Appendix C1 of USPS Publication 28 contains a useful list of street suffixes. Development of a list of street name pre types can incorporate street suffixes from USPS Publication 28 Appendix C1 with local additions.*

USPS Publication 28 only lists single word pre-types. While “Road”, “Highway” and “Freeway” are listed in the Publication 28 (Appendix C1) list of types, “County Road” or “State Highway” are not. No further guidance is provided in the national standard on how to code such pre types. Thus, there are multiple ways such roads could be encoded in the standard

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Street Name Pre Modifier** | **Street Name Pre Type** | **Street Name** |
| 1 | Interstate | Highway | 35E |
| 2 |  | Highway | 35E |
| 3 |  | Interstate | 35E |
| 4 |  |  | Interstate Highway 35E |
| 5 |  | Interstate Highway | 35E |

The Address Workgroup has decided to use multi word pre types for highways and similar road types to prevent ambiguity and inconsistency. Thus, we would use the 5th options shown above for county roads, interstate highways, etc.

**Street Name** (ST\_NAME): Text, width = 60

2.2.2.5 Street Name: Text *Official name of a street as assigned by a local governing authority, or an alternate (alias) name that is used and recognized, excluding street types, directionals, and modifiers*. (e.g. 1234 **Central** Street Southwest). Note: Use the street name as defined by the official address authority. (e.g. If they say “7th” Street, it’s “7th”. If they say “Seventh” Street, it’s “Seventh”).

The national standard does not specifically mention the mixed vs. upper case issue, but all examples are shown as mixed case, suggesting that is the preferred format.

**Street Name Post Type** (ST\_POS\_TYP): Text, width = 15 ,no abbreviations

2.2.2.6 Street Name Post Type: Text *The element of the complete street name* ***following*** *the street name element that indicates the type of street*. (e.g. 1234 Central **Street** Southwest) **NOTE: The national standard does not use abbreviations for this element.**

Domain: Address\_PostType (*See Appendix A*)

**Street Name Post Directional** (ST\_POS\_DIR): Text, width = 9

2.2.2.7 Street Name Post Directional: Text *A word following the street name that indicates the directional taken by the thoroughfare from an arbitrary starting point, or the sector where it is located*. (e.g. 1234 Cherry Street **North**). **NOTE: The national standard does not use abbreviations for this element.**

Domain: Address\_Direction (*See Appendix A*)

**Street Name Post Modifier** (ST\_POS\_MOD): Text, width = 12

2.2.2.8 Street Name Post Modifier: Text *A word or phrase that follows the street name but is not a street name post-type or street name post directional*. (e.g. 1230 Central Avenue **Extended**).

**Subaddress Elements**

Note: Draft NENA standard approaches this differently than FGDC. Do Counties want to change? If so, wait for final approved NENA standard?

Within the draft national standard, the two subaddress elements are formatted as repeating pairs because some addresses have multiple subaddress types. This is easy to do in an XML schema, but in a database requires a related table. Because MetroGIS will have implementations that use flat files without related tables (e.g. shape files), it was decided to include two sets of subaddress elements. Any additional subaddress information should be put into the Location Description field.

**Subaddress Type1, 2** (SUB\_TYPE1 & SUB\_TYPE2): Text, width = 12

2.2.4.1 Subaddress Type: *The type of subaddress to which the associated Subaddress Identifier applies.*  (e.g. **Apartment** 17C, **Building** 6, **Tower** B, **Floor** 2, **Suite** 1040)

**Subaddress Identifier1, 2** (SUB\_ID1 & SUB\_ID2): Text, width = 12

2.2.4.2 Subaddress Identifier: *The letters, numbers, words or combination thereof used to distinguish different subaddresses of the same type when several occur within the same feature*. (e.g. Apartment **17C,** Building **6,** Tower **B,** Floor **2,** Suite **1040**)

# Larger-Area Elements

Note: The draft national standard has one element (2.2.5.1 Place Name) to indicate the community of geographic location of the address, the USPS designated city of the address, the county of the address or other types of places related to the address. Additional elements are considered attributes of this element. For example 2.4.7.5 Place Name Type indicates which type of place is being referenced. While this format may be needed at a national level and can work in an XML data structure, it is not well suited to flat database files like shapefiles. It also tends to minimize the critical distinction needed in the MetroGIS community between the municipal jurisdiction, USPS place name and county of the address. Thus these MetroGIS specifications intentionally focus on the definition of those elements in a flat file which does not directly comply with the draft national standard but could be converted to the XML format of that standard.

**Municipal Jurisdiction Name** (MUNI\_NAME): Text, width = 100

Represented by 2.2.5.1 Place Name and 2.4.7.5 Place Name. The name of the incorporated municipality (city, township, or other local government, excluding counties) in which the address is physically located. In many places this will be different than the city name used by the U.S. Postal Service. (e.g. Bloomington, Castle Rock Township). By default, the spelling of the municipality name will comply with GNIS standard name (See Appendix A). A city may change the standard name to an abbreviated format (Saint vs St.) if needed although these MetroGIS specification encourage the use of the GNIS standard where possible.

Domain: GNIS\_CTU (*See Appendix A*)

**Municipal Jurisdiction Code** (MUNI\_CODE): Text width = 8

Similar to 2.4.7.6 The official federal Geographic Names Information Systems unique identifier code for the city, township or unorganized territory in which the address is physically located. (MetroGIS and the State of MN call this the “CTU” identifier.) See Appendix A for list of values. Note: GNIS has two formats. The U.S. Census format with leading zeros is required in these MetroGIS specifications. The examples in the draft national standard show the USGS integer format.

Domain: GNIS\_CTU (*See Appendix A*)

**Postal Community Name** (POSTCOMM ): Text, width = 40

Represented by 2.2.5.1 Place Name and 2.4.7.5 Place Name Type: Text The name given by the U.S. Postal Service to the post office from which mail is delivered to the address. In many places this will be different from the name of the city or township in which the address is physically located.

**County Code** (CO\_CODE): Text, width = 5

The combination of the [two character state numeric code](http://mn.gov/mnit/programs/policies/geospatial/gis-pages/state-identification-codes.jsp) and the [three character county code](http://mn.gov/mnit/programs/policies/geospatial/gis-pages/mn-county-identification-codes.jsp)  in which the address resides. Both state and county codes are national, state and MetroGIS approved standards.

Domain: ANSI\_County *(See Appendix A)*

**County Name** (CO\_NAME): Text, width = 40

Represented by 2.2.5.1 Place Name and 2.4.7.5 Place Name Type: Text The county in which the address resides. This can be auto filled from the county code.

Domain: ANSI\_County *(See Appendix A)*

**State Code** (STATE\_CODE): Text, width = 2

2.2.6.3 State Name: Text *The names of the US states and state equivalents… The names may be spelled out in full or represented by their two-letter USPS or ANSI abbreviation.* Note: MetroGIS has specified the two character code to remove any ambiguity. This will always be “MN” in our database and is therefore unnecessary, however, we will include it so as to make a standard that could also be used for things like parcel owners, etc. that may reside out of state.

Domain: ANSI\_State *(See Appendix A)*

**ZIP Code** (ZIP): Text, width = 5

2.2.6.4 ZIP Code: Text *A system of 5-digit codes that identifies the individual Post Office or metropolitan area delivery station associated with an address.*

**ZIP Plus 4** (ZIP4): Text, width = 4

2.2.6.5 ZIP Plus 4: Text *A 4-digit extension of the5-digit ZIP Code(preceded by a hyphen) that , in conjunction with the ZIP code, identifies a specific range of the USPS delivery addresses*. This element is optional.

# Additional Attributes

**Location Description** (LOC\_DESC): Text, width = 255

2.3.7.8 Location Description: *A text description providing more detail on how to identify or find the addressed feature*. (e.g. White house at intersection, 400 yards west of water tank) Optional.

**Complete Landmark Name** (LANDMARK): Text, width = 150

2.2.5.2 Landmark Name:  *One or more landmark names which identify a relatively permanent feature of the landscape that has recognizable identity within a particular cultural context.* Any individual address could represent multiple landmarks, all of which may be included in this element. Optional.

**Residence** (RESIDENCE): Text, width = 10

Does this address have a residence or living quarters? This also includes multi-use addresses that include a residence when no other address for that residence exists in the database. This data element is **not** intended to indicate whether the residence is currently occupied. Thus apartment units would be included whether they are occupied or vacant.

Domain: Yes\_No\_Unknown *(See Appendix A)*

**Mailable Address** (MAILABLE): Text, width = 10

2.3.7.9 Mailable Address: *Identifies whether an address receives USPS mail delivery (that is, the address is occupiable, and the USPS provides on-premises USPS mail delivery to it).* For example, an address for a cell tower or park with no mailbox would not be a mailable address.

Domain: Yes\_No\_Unknown *(See Appendix A)*

**Lifecycle Status** (STATUS): Text, width = 10

2.3.7.3 Address Lifecycle Status: *The lifecycle status of the address*

Domain: Lifecycle (*See Appendix A*)

**Parcel Unique Identifier** (PIN): Text, width = 17

2.2.3.2 Address Parcel Identifier: *The primary permanent identifier, as defined by the address parcel aidentifier source, for a parcel that includes the land or feature identified by an address.* This element will follow the MetroGIS Regional Parcel Dataset format.

**Longitude** (LONGITUDE): Real Number, width = double

2.3.2.3 Address Longitude: *The longitude of the address location, in decimal degrees, WGS84 datum.* Example: -84.29049105

**Latitude** (LATITUDE): Real Number, width = double

2.3.2.4 Address Latitude: *The latitude of the address location, in decimal degrees, WGS84 datum.* Example: 33.77603207

**Placement Method** (PLACEMENT ): Text , width = 25

A code that indicates the positional accuracy description*.*

Domain: NENA domain: Geocoding, Parcel, Property Access, Structure, Site, Building Entrance, Unknown

**Source of Data** (SOURCE ): Text, width = 75

1.8.5.3 Address Direct Source: Text *Source from whom the data provider obtained the address, or with whom the data provider validated the address*. For MetroGIS purposes, this field could be used to indicate the department within a city that supplied the address (e.g. Planning and Zoning, Fire Dept., Public Works, etc.) or a provider of addresses on private streets (e.g. U of M, XYZ Company, etc.)

**Address Authority** (AAUTHORITY): Text, width = 40

2.3.1.2 Address Authority: Text *The name of the authority (e.g., municipality, county) that created or has jurisdiction over the creation, alteration, or retirement of an address*. Note: Entities other than cities and counties might be possible here (e.g. U of M?, State Fair?, 3M (on their campus), Mdewakanton Sioux Community).

**Editing Organization** (EDIT\_ORG): Text, width = 40

This is intended to indicate the organization that made the last change to the data record. This field may not be necessary if the official address authority is clearly defined and is the only organization that is allowed to edit a record. However, the flexibility we envision with the administration of the geographic parts of the regional dataset suggests that this element will be of use at some point. Optional

**Edited Date** (EDITED\_DT ): Date,

This should preferably be filled by the editing application whenever there is an edit. It should use the standard YYYYMMDD format. Note, this element is not part of the National Standard. Mandatory

**Comments** (COMMENTS): Text, width = 254

A field for free form comments as deemed useful by the address authority. Optional.

# Appendix A: Domains

**Domain:** Address\_Direction

**Field(s):** Street Name Pre Directional(ST\_PRE\_DIR), Street Name Post Directional (ST\_POS\_DIR)

|  |  |
| --- | --- |
| **Codes** | **Values** |
| North | North |
| South | South |
| East | East |
| West | West |
| Northeast | Northeast |
| Southeast | Southeast |
| Southwest | Southwest |
| Northwest | Northwest |

**Domain:** Address\_PostType

**Field(s):**  Street Name Post Type(ST\_POS\_TYP)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Code** | **Value** | **Code** | **Value** | **Code** | **Value** | **Code** | **Value** |
| Abbey | Abbey | Crest | Crest | Glen | Glen | Mill | Mill |
| Alcove | Alcove | Cross | Cross | Glens | Glens | Mills | Mills |
| Alley | Alley | Crossing | Crossing | Green | Green | Mission | Mission |
| Annex | Annex | Crossings | Crossings | Greens | Greens | Motorway | Motorway |
| Arcade | Arcade | Crossroad | Crossroad | Greenway | Greenway | Mount | Mount |
| Avenue | Avenue | Crossroads | Crossroads | Grove | Grove | Mountain | Mountain |
| Bay | Bay | Curve | Curve | Groves | Groves | Mountains | Mountains |
| Bayou | Bayou | Dale | Dale | Harbor | Harbor | Neck | Neck |
| Beach | Beach | Dam | Dam | Harbors | Harbors | Orchard | Orchard |
| Bend | Bend | Divide | Divide | Haven | Haven | Oval | Oval |
| Bluff | Bluff | Down | Down | Heights | Heights | Overlook | Overlook |
| Bluffs | Bluffs | Downs | Downs | Highway | Highway | Overpass | Overpass |
| Bottom | Bottom | Draw | Draw | Hill | Hill | Park | Park |
| Boulevard | Boulevard | Drive | Drive | Hills | Hills | Parks | Parks |
| Branch | Branch | Drives | Drives | Hollow | Hollow | Parkway | Parkway |
| Bridge | Bridge | Echo | Echo | Horn | Horn | Parkways | Parkways |
| Brook | Brook | Edge | Edge | Inlet | Inlet | Pass | Pass |
| Brooks | Brooks | Entry | Entry | Island | Island | Passage | Passage |
| Burg | Burg | Estate | Estate | Islands | Islands | Path | Path |
| Burgs | Burgs | Estates | Estates | Isle | Isle | Pike | Pike |
| Bypass | Bypass | Expressway | Expressway | Junction | Junction | Pine | Pine |
| Camp | Camp | Extension | Extension | Junctions | Junctions | Pines | Pines |
| Canyon | Canyon | Extensions | Extensions | Key | Key | Place | Place |
| Cape | Cape | Fall | Fall | Keys | Keys | Plain | Plain |
| Causeway | Causeway | Falls | Falls | Knoll | Knoll | Plains | Plains |
| Center | Center | Ferry | Ferry | Knolls | Knolls | Plaza | Plaza |
| Centers | Centers | Field | Field | Lake | Lake | Point | Point |
| Chase | Chase | Fields | Fields | Lakes | Lakes | Pointe | Pointe |
| Circle | Circle | Flat | Flat | Land | Land | Points | Points |
| Circles | Circles | Flats | Flats | Landing | Landing | Port | Port |
| Cliff | Cliff | Ford | Ford | Lane | Lane | Ports | Ports |
| Cliffs | Cliffs | Fords | Fords | Light | Light | Prairie | Prairie |
| Close | Close | Forest | Forest | Lights | Lights | Radial | Radial |
| Club | Club | Forge | Forge | Loaf | Loaf | Ramp | Ramp |
| Common | Common | Forges | Forges | Lock | Lock | Ranch | Ranch |
| Commons | Commons | Fork | Fork | Locks | Locks | Rapid | Rapid |
| Corner | Corner | Forks | Forks | Lodge | Lodge | Rapids | Rapids |
| Corners | Corners | Fort | Fort | Lookout | Lookout | Rest | Rest |
| Course | Course | Freeway | Freeway | Loop | Loop | Ridge | Ridge |
| Court | Court | Gables | Gables | Mall | Mall | Ridges | Ridges |
| Courts | Courts | Garden | Garden | Manor | Manor | Rise | Rise |
| Cove | Cove | Gardens | Gardens | Manors | Manors | River | River |
| Coves | Coves | Gate | Gate | Meadow | Meadow | Road | Road |
| Creek | Creek | Gateway | Gateway | Meadows | Meadows | Roads | Roads |
| Crescent | Crescent | Glade | Glade | Mews | Mews | Route | Route |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Code** | **Value** | **Code** | **Value** | **Code** | **Value** |
| Row | Row | Stream | Stream | Valley | Valley |
| Rue | Rue | Street | Street | Valleys | Valleys |
| Run | Run | Streets | Streets | Viaduct | Viaduct |
| Shoal | Shoal | Summit | Summit | View | View |
| Shoals | Shoals | Terrace | Terrace | Views | Views |
| Shore | Shore | Throughway | Throughway | Village | Village |
| Shores | Shores | Trace | Trace | Villages | Villages |
| Skies | Skies | Track | Track | Ville | Ville |
| Skyway | Skyway | Trafficway | Trafficway | Vista | Vista |
| Spring | Spring | Trail | Trail | Walk | Walk |
| Springs | Springs | Trailer | Trailer | Walks | Walks |
| Spur | Spur | Tunnel | Tunnel | Wall | Wall |
| Spurs | Spurs | Turn | Turn | Way | Way |
| Square | Square | Turnpike | Turnpike | Ways | Ways |
| Squares | Squares | Underpass | Underpass | Well | Well |
| Station | Station | Union | Union | Wells | Wells |
| Stravenue | Stravenue | Unions | Unions |  |  |

**Domain:** GNIS\_CTU

**Field(s):** Municipal Jurisdiction Name(MUNI\_NAME) & Municipal Jurisdiction Code (MUNI\_CODE)

*Note: For technical implementation, the “Code” text shall appear in the MUNI\_CODE field and “Value” text should appear in MUNI\_NAME field.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Code** | **Value** | **Code** | **Value** | **Code** | **Value** |
| 02393887 | Afton | 02394486 | Deephaven | 02395483 | Jordan |
| 02393954 | Andover | 02394503 | Dellwood | 02395589 | Lake Elmo |
| 02393964 | Anoka | 00663965 | Denmark Township | 02395599 | Lake Saint Croix Beach |
| 02393967 | Apple Valley | 00663994 | Douglas Township | 02395609 | Lakeland |
| 02393979 | Arden Hills | 02394586 | Eagan | 02395610 | Lakeland Shores |
| 02394090 | Bayport | 02394596 | East Bethel | 00664705 | Laketown Township |
| 00663529 | Baytown Township | 02394614 | Eden Prairie | 02395614 | Lakeville |
| 02394113 | Belle Plaine | 02394621 | Edina | 02395626 | Landfall |
| 00663556 | Belle Plaine Township | 02394658 | Elko New Market | 02395642 | Lauderdale |
| 00663571 | Benton Township | 00664099 | Empire Township | 02395696 | Lexington |
| 02394156 | Bethel | 00664113 | Eureka Township | 02395708 | Lilydale |
| 02394171 | Birchwood Village | 02394717 | Excelsior | 02395725 | Lino Lakes |
| 02394183 | Blaine | 02394738 | Falcon Heights | 00664793 | Linwood Township |
| 00663612 | Blakeley Township | 02394747 | Farmington | 02395733 | Little Canada |
| 02394198 | Bloomington | 02394789 | Forest Lake | 02395756 | Long Lake |
| 02393428 | Brooklyn Center | 00664202 | Fort Snelling | 02395764 | Loretto |
| 02393429 | Brooklyn Park | 02394826 | Fridley | 00664829 | Louisville Township |
| 00663708 | Burns Township | 02394871 | Gem Lake | 02395818 | Mahtomedi |
| 02393472 | Burnsville | 02394924 | Golden Valley | 02395838 | Maple Grove |
| 00663731 | Camden Township | 02394963 | Grant | 02395841 | Maple Plain |
| 02393762 | Carver | 02394988 | Greenfield | 02395846 | Maplewood |
| 00663763 | Castle Rock Township | 00664346 | Greenvale Township | 02395007 | Marine on Saint Croix |
| 00663767 | Cedar Lake Township | 02394245 | Greenwood | 00664919 | Marshan Township |
| 02393784 | Centerville | 00664354 | Grey Cloud Island Township | 00664932 | May Township |
| 02393797 | Champlin | 02394273 | Ham Lake | 02395049 | Mayer |
| 02393799 | Chanhassen | 02394274 | Hamburg | 02395082 | Medicine Lake |
| 02393809 | Chaska | 02394282 | Hampton | 02395084 | Medina |
| 02393526 | Circle Pines | 00664386 | Hampton Township | 02395096 | Mendota |
| 02393579 | Coates | 00664388 | Hancock Township | 02395097 | Mendota Heights |
| 02393601 | Cologne | 02394288 | Hanover | 02395317 | Miesville |
| 02393607 | Columbia Heights | 02394320 | Hastings | 02395345 | Minneapolis |
| 02393610 | Columbus | 00664443 | Helena Township | 02395350 | Minnetonka |
| 02393628 | Coon Rapids | 02394389 | Hilltop | 02395351 | Minnetonka Beach |
| 02393634 | Corcoran | 00664502 | Hollywood Township | 02395352 | Minnetrista |
| 02393644 | Cottage Grove | 02394417 | Hopkins | 02395111 | Mound |
| 00663886 | Credit River Township | 02394440 | Hugo | 02395118 | Mounds View |
| 02393683 | Crystal | 02395420 | Independence | 02395187 | New Brighton |
| 00663913 | Dahlgren Township | 02395429 | Inver Grove Heights | 02395195 | New Germany |
| 02394471 | Dayton | 00664569 | Jackson Township | 02395201 | New Hope |

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Value** | **Code** | **Value** |
| 00665104 | New Market Township | 02395918 | South Saint Paul |
| 02395211 | New Prague | 02395934 | Spring Lake Park |
| 02395216 | New Trier | 00665676 | Spring Lake Township |
| 02395227 | Newport | 02395935 | Spring Park |
| 00665126 | Nininger Township | 02396471 | Saint Anthony |
| 02395259 | North Oaks | 02396475 | Saint Bonifacius |
| 02395261 | North Saint Paul | 02396487 | Saint Francis |
| 02395265 | Northfield | 00665519 | Saint Lawrence Township |
| 02395278 | Norwood Young America | 02396500 | Saint Louis Park |
| 02395282 | Oak Grove | 02396508 | Saint Marys Point |
| 02395285 | Oak Park Heights | 02396511 | Saint Paul |
| 02395287 | Oakdale | 02396516 | Saint Paul Park |
| 02396081 | Orono | 02395969 | Stillwater |
| 02396098 | Osseo | 00665712 | Stillwater Township |
| 02396211 | Pine Springs | 02396006 | Sunfish Lake |
| 02396242 | Plymouth | 02397036 | Tonka Bay |
| 02396284 | Prior Lake | 02397106 | Vadnais Heights |
| 02396311 | Ramsey | 02397127 | Vermillion |
| 02396316 | Randolph | 00665860 | Vermillion Township |
| 00665377 | Randolph Township | 02397135 | Victoria |
| 00665381 | Ravenna Township | 02397159 | Waconia |
| 02396362 | Richfield | 00665887 | Waconia Township |
| 02396388 | Robbinsdale | 00665929 | Waterford Township |
| 02396406 | Rockford | 02397211 | Watertown |
| 02396415 | Rogers | 00665931 | Watertown Township |
| 02396433 | Rosemount | 02397235 | Wayzata |
| 02396435 | Roseville | 00665966 | West Lakeland Township |
| 00665551 | San Francisco Township | 02397275 | West Saint Paul |
| 00665541 | Sand Creek Township | 02397299 | White Bear Lake |
| 02396543 | Savage | 00665981 | White Bear Township |
| 02396548 | Scandia | 02397314 | Willernie |
| 00665569 | Sciota Township | 02397369 | Woodbury |
| 02395854 | Shakopee | 02397370 | Woodland |
| 02395876 | Shoreview | 00666069 | Young America Township |
| 02395877 | Shorewood |  |  |

**Domain:** ANSI\_County

**Field(s):** County Code (CO\_CODE), County Name (CO\_NAME)

*Note: For technical implementation, the “Code” text shall appear in the CO\_CODE field and “Value” text should appear in CO\_NAME field.*

|  |  |
| --- | --- |
| **Code** | **Value** |
| 27003 | Anoka County |
| 27019 | Carver County |
| 27037 | Dakota County |
| 27053 | Hennepin County |
| 27123 | Ramsey County |
| 27139 | Scott County |
| 27163 | Washington County |

**Domain:** ANSI\_State

**Field(s):** State Code (STATE\_CODE)

*Note: For technical implementation, the “Value” text shall appear in the “STATE\_CODE” field.*

|  |  |
| --- | --- |
| **Code** | **Value** |
| 19 | IA |
| 27 | MN |
| 38 | ND |
| 46 | SD |
| 55 | WI |

**Domain:** Yes\_No\_Unknown

**Field(s):** Residence (RESIDENCE), Mailable Address(MAILABLE):

|  |  |
| --- | --- |
| **Codes** | **Values** |
| Yes | Yes |
| No | No |
| Unknown | Unknown |

**Domain:** Lifecycle

**Field(s):** Lifecycle Status(STATUS)

|  |  |
| --- | --- |
| **Codes** | **Values** |
| Active | Active |
| Retired | Retired |
| Proposed | Proposed |

|  |  |
| --- | --- |
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|  |  |

**Domain**: Placement\_Method

**Field:** Placement Method

Values: Geocoding, Parcel, Property Access, Structure, Site, Unknown

# Appendix B: Draft XML Formatting Template

Updated 4/21/2010

This is intended to be a template to guide the formatting of data into an XML transfer file

|  |  |  |
| --- | --- | --- |
| **Element Name** | **Database Field Name** | **XML Tag from Draft National Standard or “MN” Specific Tag** |
| National Address Unique Identifier | ADD\_ID\_NAT | <AddressID> |
| Local Address Unique Identifier | ADD\_ID\_LOC | <MNAddressIDLocal> |
| Address Number Prefix | ANUMBERPRE | <AddressNumberPrefix> |
| Address Number | ANUMBER | <AddressNumber> |
| Address Number Suffix | ANUMBERSUF | <AddressNumberSuffix> |
| Separator Element | ANUMBERSEP | \*Separator |
| Street Name Pre Modifier | ST\_PRE\_MOD | <StreetNamePreModifier> |
| Street Name Pre Directional  | ST\_PRE\_DIR | <StreetNamePreDirectional> |
| Street Name Pre Type  | ST\_PRE\_TYP | <StreetNamePreType> |
| Street Name | ST\_NAME | <StreetName> |
| Street Name Post Type | ST\_POS\_TYP | <StreetNamePostType> |
| Street Name Post Directional | ST\_POS\_DIR | <StreetNamePostDirectional> |
| Street Name Post Modifier | ST\_POS\_MOD | <StreetNamePostModifier> |
| Subaddress Type 1 | SUB\_TYPE1 | <SubaddressType> |
| Subaddress Identifier 1 | SUB\_ID1 | <SubaddressIdentifier> |
| Subaddress Type 2 | SUB\_TYPE2 | <SubaddressType> |
| Subaddress Identifier 2 | SUB\_ID2 | <SubaddressIdentifier> |
| Municipal Jurisdiction Name | MUNI\_NAME | \*<PlaceName> |
| Municipal Jurisdiction Code | MUNI\_CODE | \*GNISFeatureID |
| USPS Place Name | USPS\_PLACE | \*<PlaceName> |
| County Code | CO\_CODE | <MNCountyCode> |
| County Name | CO\_NAME | \*<PlaceName> |
| State Code | STATE\_CODE | <StateName> |
| ZIP Code | ZIP | <ZIPCode> |
| ZIP Plus 4 | ZIP4 | <ZIPPlus4> |
| Location Description | LOC\_DESC | <LocationDescription> |
| Landmark Name | LANDMARK | <LandmarkName> |
| Residence | RESIDENCE | <MNResidence> |
| Mailable Address | MAILABLE | <MailableAddress> |
| Lifecycle Status | STATUS | <AddressLifecycleStatus> |
| Parcel Unique Identifier | PIN | <AddressParcelIdentifier> |
| Longitude | LONGITUDE | <AddressLongitude> |
| Latitude | LATITUDE | <AddressLatitude> |
| Positional Accuracy Indicator | POSI\_ACCU | <MNPositionalAccuracy> |
| Address Direct Source | ADIRSOURCE | <MNDirectSource> |
| Address Authority | AAUTHORITY | <AddressAuthority> |
| Editing Organization | EDIT\_ORG | <MNEditingOrganization> |
| Update Date | UPDATEDATE | <MNUpdateDate> |
| Comments | COMMENTS | <MNComments> |

<?xml version="1.0" encoding="UTF-8"?>

<addr:AddressCollection version="0.4" xmlns:addr="addr" xmlns:addr\_type="addr\_type" xmlns:smil20="http://www.w3.org/2001/SMIL20/" xmlns:smil20lang="http://www.w3.org/2001/SMIL20/Language" xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xml="http://www.w3.org/XML/1998/namespace" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:MNAddr=“http://www.datafinder.org/metadata/MetroGIS\_Address\_Points\_Database\_Specifications.pdf” xsi:schemaLocation="addr addr.xsd ">

<NumberedThoroughfareAddress>

<CompleteAddressNumber>

<AddressNumberPrefix>ANUMBERPRE</AddressNumberPrefix>

<AddressNumber>ANUMBER</AddressNumber>

<AddressNumberSuffix Separator="ANUMBERSEP">ANUMBERSUF</AddressNumberSuffix>

</CompleteAddressNumber>

<CompleteStreetName>

<StreetNamePreModifier>ST\_PRE\_MOD</StreetNamePreModifier>

<StreetNamePreDirectional>ST\_PRE\_DIR</StreetNamePreDirectional>

<StreetNamePreType>ST\_PRE\_TYP</StreetNamePreType>

<StreetName>ST\_NAME</StreetName>

<StreetNamePostType>ST\_POS\_TYP</StreetNamePostType>

<StreetNamePostDirectional>ST\_POS\_DIR</StreetNamePostDirectional>

<StreetNamePostModifier>ST\_POS\_MOD</StreetNamePostModifier>

</CompleteStreetName>

<CompleteSubaddress>

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<SubaddressType>SUB\_TYPE1</SubaddressType>

<SubaddressIdentifier>SUB\_ID1</SubaddressIdentifier>

</SubaddressElement>

<SubaddressElement ElementSequenceNumber=”2” SubaddressComponentOrder=”1”>

<SubaddressType>SUB\_TYPE2</SubaddressType>

<SubaddressIdentifier>SUB\_ID2</SubaddressIdentifier>

</SubaddressElement>

</CompleteSubaddress>

<CompleteLandmark>

<LandmarkName>LANDMARK</LandmarkName>

</CompleteLandmark>

<CompletePlaceName>

<PlaceName PlaceNameType="USPSPlaceName">USPS\_PLACE</PlaceName>

<PlaceName PlaceNameType="Municipal" GNISFeatureID=”MUNI\_CODE”>MUNI\_NAME </PlaceName>

<PlaceName PlaceNameType="County">CO\_NAME</PlaceName>

</CompletePlaceName>

<MNAddr:MNCountyCode>CO\_CODE</MNAddr:MNCountyCode>

<StateName>STATE\_CODE</StateName>

<ZIPCode>ZIP</Zipcode>

<ZIPPlus4>ZIP4</ZIPPlus4>

<AddressID>ADD\_ID\_NAT</AddressID>

<MNAddr:MNAddressIDLocal>ADD\_ID\_LOC</MNAddr:MNAddressIDLocal>

<AddressAuthority>AAUTHORITY</AddressAuthority>

<AddressLongitude>LONGITUDE</AddressLongitude>

<AddressLatitude>LATITUDE</AddressLatitude>

<AddressParcelIdentifier>PIN</AddressParcelIdentifier>

<AddressLifecycleStatus>STATUS</AddressLifecycleStatus>

<LocationDescription>LOC\_DESC</LocationDescription>

<MailableAddress>MAILABLE</MailableAddress>

<MNAddr:MNResidence>RESIDENCE<MNAddr:MNResidence>

<MNAddr:MNPositionalAccuracy>POSI\_ACCU<MNAddr:MNPositionalAccuracy>

<MNAddr:MNDirectSource>ADIRSOURCE<MNAddr:MNDirectSource>

<MNAddr:MNEditingOrganization>EDIT\_ORG<MNAddr:MNEditingOrganization>

<MNAddr:MNUpdateDate>UPDATEDATE<MNAddr:MNUpdateDate>

<MNAddr:MNComments>COMMENTS<MNAddr:MNComments>

</NumberedThoroughfareAddress>

</addr:AddressCollection>