

MetroGIS Address Points Database Specifications

Approved by MetroGIS Address Workgroup: 4/24/15

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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](#). 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 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	National Address Unique Identifier	ADD_ID_NAT		Text	60	Mandatory
2.3.1.1	Local Address Unique Identifier	ADD_ID_LOC		Text	50	Conditional
2.2.1.1	Address Number Prefix	ANUMBERPRE		Text	6	Conditional
2.2.1.2	Address Number	ANUMBER		Integer	10	Mandatory
2.2.1.3	Address Number Suffix	ANUMBERSUF		Text	6	Conditional
2.2.2.4	Separator Element	ANUMBERSEP		Text	1	Conditional
2.2.2.1	Street Name Pre Modifier	ST_PRE_MOD		Text	10	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	24	Conditional
2.2.2.5	Street Name	ST_NAME		Text	42	Mandatory
2.2.2.6	Street Name Post Type	ST_POS_TYP	Address_PostType	Text	12	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	30	Mandatory
Multi	Municipal Jurisdiction Code	MUNI_CODE	GNIS_CTU	Text	8	Mandatory
Multi	USPS Place Name	USPS_PLACE		Text	30	Optional
None	County Code	CO_CODE	ANSI_County	Text	3	Mandatory
Multi	County Name	CO_NAME	ANSI_County	Text	20	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	40	Optional
2.2.5.1	Landmark Name	LANDMARK		Text	40	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
2.4.3.2	Parcel Unique Identifier	PIN		Text	17	Optional
2.4.2.3	Longitude	LONGITUDE		Real	double	Mandatory
2.4.2.4	Latitude	LATITUDE		Real	double	Mandatory
None	Positional Accuracy Indicator	POSI_ACCU	Positional_Accuracy	Integer	2	Optional
None	Address Direct Source	ADIRSOURCE		Text	40	Optional
2.4.1.2	Address Authority	AAUTHORITY		Text	40	Mandatory
None	Editing Organization	EDIT_ORG		Text	40	Optional
None	Update Date	UPDATEDATE		Date	8	Mandatory
None	Comments	COMMENTS		Text	254	Optional

* See Appendix B for a draft XML formatting template.

Element Descriptions

National Address Unique Identifier (ADD_ID_NAT), Text, width 60

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 it is envisioned that this data will someday be used at a state or national level, it is desirable to have a nationally unique address ID in the MetroGIS regional dataset. This will be accomplished by appending the GNIS unique ID (**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 = 6

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 = 10

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 = 6

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 (ANUMBERSEP): Text, width = 1

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). Note: **We will keep this in our database as a test of the National Standard, but do not believe it will be used in the metro area.***

Street Elements

Street Name Pre Modifier (ST_PRE_MOD): Text, width = 10

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 = 12

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 = 42

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 = 12, 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

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 = 30

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 \(See Appendix A\)](#)

USPS Place Name (USPS_PLACE): Text, width = 30

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 = 3

The three character FIPS, State and MetroGIS standard county code for the county in which the address resides

Domain: [ANSI_County \(See Appendix A\)](#)

County Name (CO_NAME): Text, width = 20

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 the 5-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 = 40

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.

Landmark Name (LANDMARK): Text, width = 40

2.2.5.1 Landmark Name: *The name of a relatively permanent feature of the landscape that has recognizable identity within a particular cultural context.* Any individual address could represent multiple landmarks, thus we will just include one primary landmark name here. 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 identifier 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): Numeric, width = double

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

Latitude (LATITUDE): Numeric, width = double

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

Positional Accuracy Indicator (POSI_ACCU): Integer, width = 2

A code that indicates the positional accuracy description.

Domain: Positional_Accuracy (See Appendix A)

Address Direct Source (ADIRSOURCE): Text, width = 40

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

Update Date (UPDATEDATE): Date, 8 digit integer

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. Optional

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	Minnnetonka
02393628	Coon Rapids	02394389	Hilltop	02395351	Minnnetonka Beach
02393634	Corcoran	00664502	Hollywood Township	02395352	Minnetrissa
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
003	Anoka County
019	Carver County
037	Dakota County
053	Hennepin County
123	Ramsey County
139	Scott County
163	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

Domain: Positional_Accuracy

Field(s): Positional Accuracy Indicator (POSI_ACCU)

Codes	Values
0	Unknown
1	Parcel polygon centroid or random placement within parcel polygon
2	Aligned to doorstep based on aerial photo
3	Placed on correct building, but not necessarily on doorstep
4	Placed over portion of building in which the unit exists
5	Driveway entrance from road
6	Preliminary location for new address created without aid of parcel boundaries, air photo, etc.
7	Preliminary location created based on digital pre-final plat
99	Other. Please provided documentation of other situations to MetroGIS

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 International 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>
  <SubaddressElement ElementSequenceNumber="1" SubaddressComponentOrder="1">
    <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>
```