

VTrans Road Centerline Spatial Data User Guide

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INTRODUCTION

The Vermont Agency of Transportation (VTrans) Road Centerline data layer (TransRoad_RDS) contains all town and state highways, as well as many private roads.

User Guide Background

This User Guide is a reincarnation of the “VGIS Handbook Part 2 – Standards Section G Road Centerline Spatial Data Standard” version 2005. Much of the introductory narrative of this version is heavily borrowed from the 2005 Standard which was initiated by the Vermont Center for Geographic Information (VCGI). The original purpose of the VCGI standard was to draft a document which would be used as a frame of reference for the coordinated maintenance of a single “master” road centerline data layer.

Background of the Road Centerline Data Set

The original road centerline data set was digitized by Greenhorne & O’Mara Inc. in 1991-1992. Many subsequent updates were made by Regional Planning Commissions (RPC’s), their contractors, and VCGI who was the steward of the data layer between 1992 and 2004. They were responsible for coordinating update efforts and for quality control. In 2004, VTrans became the steward and has taken over the update and maintenance of the road centerline data layer.

Another statewide road centerline data layer was created in February 1996 when the Vermont E911 program enhanced the original road centerline data with road names and address range information.

Over the years, two “master” road centerline data layers have evolved, one especially designed for E911 functional needs and another one configured for Vermont Agency of Transportation (VTrans) needs.

For many years, the two organizations have been working toward returning to the concept of one single “master” road centerline data layer, but for practical, everyday needs, it continues to be more effective for each agency to maintain the separate layers with certain fields coordinated between the two.

The VTrans’ data layer has been revised to match "Official" highway mileage. It is the most reliable source for official VTrans road class (AOTCLASS) information. However, this layer may not include every private road, and the road name information may not match perfectly with the E911 roads data layer. The E911 centerline layer maintained by VT's E911 Board includes all private roads and generally more reliable road name and address information.

In 2013, the two organizations synchronized the schema between the two data layers with some fields being primarily E911 fields and others being VTrans fields. The fields that are E911's have not been fully populated in the VTrans data releases since 2013. The agency maintaining each field is identified in the data dictionary section of the user guide and in appendices A and B.

Units and Coordinate System

The data layer is in the Vermont State Plane Coordinate System based on the North American Datum (NAD) of 1983. The coordinates are stored in meters. This is the standard data coordinate system used by VCGI.

Details

NAD_1983_StatePlane_Vermont_FIPS_4400

WKID: 32145 Authority: EPSG

Projection: Transverse_Mercator

False_Easting: 500000.0

False_Northing: 0.0

Central_Meridian: -72.5

Scale_Factor: 0.9999642857142858

Latitude_Of_Origin: 42.5

Linear Unit: Meter (1.0)

Geographic Coordinate System: GCS_North_American_1983

Angular Unit: Degree (0.0174532925199433)

Prime Meridian: Greenwich (0.0)

Datum: D_North_American_1983

Spheroid: GRS_1980

Semimajor Axis: 6378137.0

Semiminor Axis: 6356752.314140356

Inverse Flattening: 298.257222101

According to Vermont statute, the Vermont Coordinate System 1983 will be the sole system for projects commenced after January 1, 2000.

Vermont Statutes Annotated, Title 1 General Provisions, Chapter 17 Vermont Coordinate System (<http://legislature.vermont.gov/statutes/chapter/01/017>).

Associating Information to the Data Layer

More detailed information about the specific fields referenced in this section can be found in the data dictionary section of the user guide.

Unique Feature Identifier:

Each road segment (arc) has a unique identifier, FAID (a concatenation of FIPS8 + ARCID).

These ID's are primarily designed for feature tracking and quality control. However, users can potentially associate attribute information to specific arcs via this feature.

Pros:

User only needs FAID (or FIPS8 + ARCID) in their database

Does not require address matching or linear referencing software

Cons:

The user must re-refresh their database as features are modified and retired

Does not allow user to locate point events

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User can only associate information along the entire length of the road segment with the assigned ARCID.

Unique Road Name:

Many road segments (arcs) have a road name identifier. There are two fields in the data that hold this data, RDNAME and GEONAMEID. RDNAME is maintained by VTrans and generally is equal to E911's GEONAMEID field. VTrans generally defers to E911 in the identification of road names.

Two other fields are associated with road names, RDFLNAME (road full name) and PRIMARYNAME. Here is how the four name fields relate to each other:

number identifier: VTrans RDNAME = E911 GEONAMEID

text identifier: VTrans RDFLNAME = E911 PRIMARYNAME

ATTRIBUTE CODING SCHEME

NOTE: The numeric indexing for each attribute corresponds to the order in which that field appears in the dataset's attribute table. Reference tables for the attributes appear in the appendices.

1 – OBJECTID

Maintained by: Esri

Type: Object ID

Required: True

Editable: False

Description: Sequential unique whole numbers that are automatically generated.

2 – SEGMENTID

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: A unique numeric value assigned by the software for each feature.

3 - ARCID

Maintained by: VTrans

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: The ARCID is a unique arc identifier within each municipality (town, city, grant or gore). When combined with the FIPS8 code, this provides a unique arc identifier statewide. A redefined item, FAID contains both FIPS8 and ARCID within the road centerline dataset. The ARCID can be used for error reporting, and is used to aid in quality control of updated data.

- New arcs must be assigned ARCIDs unique to their towns.
- When an arc is split, both arcs will be assigned new ARCIDs.
- When two (or more) arcs are joined, the resulting arc will be assigned a new ARCID.
- If the FIPS8 code of an arc is changed (putting the arc into a new town), then the ARCID must be modified to make it unique with the arc's new town. *Care must be taken to assure that unique ARCID codes are maintained when editing near a town boundary.*

The ARCID is not changed when an arc is only moved or reshaped.

New ARCID codes should be added in sequential order, starting with the next available ARCID (1 more than the current maximum for the given town). ARCIDs will never be reused.

In summary, any data updates must maintain unique ARCIDs within each municipality.

04 – STREETID

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: A unique number previously used by E911 for each road segment. Matches the content of the SEGMENTID field; incompletely populated in this release.

5 – PD

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 10

Description: Prefix road direction, previously named PRE.DIR; incompletely populated in this release.

Field values:

E = East

N = North

NE = Northeast

NW = Northwest

S = South

SE = Southeast

SW = Southwest

W = West

6 – PT

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 10

Description: Prefix type; incompletely populated in this release.

7 – SN

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 80

Description: Street name; incompletely populated in this release.

8 – ST

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 10

Description: Street type; incompletely populated in this release.

9 – SD

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 10

Description: Street direction; incompletely populated in this release.

Field values:

E = East

N = North

S = South

W = West

10 – GEONAMEID

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Geo Name ID number; incompletely populated in this release.

11 – USEGEONAMESALIASES

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: 1

Domain: YesNo

Precision: 10

Description: Use Geonames aliases; incompletely populated in this release.

Field values:

0 = No
1 = Yes

12 – PRIMARYNAME

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 100

Description: Full primary road segment name; incompletely populated in this release.

13 – ALINAME

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 100

Description: Alternate name; incompletely populated in this release.

14 – ALIAS1

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 60

Description: Alternate road name 1; incompletely populated in this release.

15 – ALIAS2

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 60

Description: Alternate road name 2; incompletely populated in this release.

16 – ALIAS3

Maintained by: E911

Type: String

Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 60
Description: Alternate road name 3; incompletely populated in this release.

17 – ALIAS4

Maintained by: E911
Type: String
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 60
Description: Alternate road name 4; incompletely populated in this release.

18 – ALIAS5

Maintained by: E911
Type: String
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 60
Description: Alternate road name 5; incompletely populated in this release.

19 – COMMENTS

Maintained by: E911
Type: String
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 255
Description: Free text field for miscellaneous comments; incompletely populated in this release.

20 - SURFACETYPE

Maintained by: VTrans
Type: Short
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: SurfaceType
Type: CodedValue
Merge policy: DefaultValue

Split policy: Duplicate

Precision: 5

Description: The surface type of the road; previously named SURFACE.

Field values:

- 1 = Paved
- 2 = Gravel
- 3 = Soil or graded and drained earth
- 5 = Unimproved/primitive
- 6 = Impassable or untraveled
- 9 = Unknown

21 – ONEWAY

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: 'N'

Domain: Oneway

Length: 1

Description: One-way street; completely populated in this release.

Field values:

- N = Not a one-way street.
- X = One-way street in opposite direction of arc.
- Y = One-way street in direction of arc.

22 – ADDRESSLOCK

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: 0

Domain: YesNo

Precision: 10

Description: Address lock; incompletely populated in this release.

Field values:

- 0 = No
- 1 = Yes

23 – NO_MSAG

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: No definition included; incompletely populated in this release.

24 – C1_EXCEPTION

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: No definition included; incompletely populated in this release.

25 – MCODE

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Municipal code; incompletely populated in this release.

26 – LESN

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Left-side-of-road Emergency Service Number; incompletely populated in this release.

27 – RESN

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Right-side-of-road Emergency Service Number; incompletely populated in this release.

28 – LTWN

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 50

Description: The town to the left side of a road, based upon the road segment's stored direction; incompletely populated in this release.

29 – RTWN

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 50

Description: The town to the right side of a road, based upon the road segment's stored direction; incompletely populated in this release.

30 – LLO_A

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 10

Description: Low address value for the left side of the road for the road segment based on arc direction; incompletely populated in this release.

31 – RLO_A

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 10

Description: Low address value for the right side of the road for the road segment based on the arc direction; incompletely populated in this release.

32 – LHI_A

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 10

Description: High address value for the left side of the road for the road segment based on the arc direction; incompletely populated in this release.

33 – RHI_A

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 10

Description: High address value for the right side of the road for the road segment based on arc direction; incompletely populated in this release.

34 – LZIP

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 10

Description: ZIP code on the left side of the road using the stored line direction for placement; incompletely populated in this release.

35 – RZIP

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 10

Description: ZIP code on the right side of the road using the stored line direction for placement; incompletely populated in this release.

36 – LLO_T

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Low address value for the left side of the road using the stored line direction for placement; incompletely populated in this release.

37 – RLO_T

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Low address value for the right side of the road using the stored line direction for placement; incompletely populated in this release.

38 – LHI_T

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: High address value for the left side of the road using the stored line direction for placement; incompletely populated in this release.

39 – RHI_T

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: High address value for the right side of the road using the stored line direction for placement; incompletely populated in this release.

40 – ADDRESRANGEID

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Address range ID number; incompletely populated in this release.

41 – ROUTEINCLUDE

Maintained by: E911

Type: Long

Required: False
Editable: True
Nullable: True
Default: 1
Domain: YesNo
Precision: 10
Description: Incompletely populated in this release.
Field values:
0 = No
1 = Yes

42 – RTNAME

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 12

Description: The RTNAME town highway number/name corresponds to the official number on the VTrans highway maps with an added prefix (ex: "I-89", "VT-12A", "TH-3", "US-4", etc.). State and federal numbers will be unique for that highway for the entire state, while town-numbered highways will only be unique for that town. RTNAME = '-' is used for a blank (no data) value. The RTNAME field must not be empty. Where a route has two route numbers (as shown on road signs), the more local number (and prefix) is used - for example, a route having both a State route number and a town route number is assigned the town route number (as shown on the VTrans highway maps). The RTNAME field is not the same as RDNAME or ETE_LR. The RDNAME field refers to the road's common name (defined by the E911 GEONAMEID field) - for example, Main Street may be considered Town Highway 5 (TH-5) by VTrans. In this situation the RTNAME would be "TH-5" and the RDNAME value would be 12519 (which is "Main Street" in the E911 data set). However, the same road could also be classified as "Vermont Route 12" (VT-12). In this case, the ETE_LR field would be populated with "V012".

Field values:

- Alt US- = US Alternate Route
- BR I- = Interstate Business Route
- BR US- = US Business Route
- BSp I- = Interstate Business Spur
- BSp US- = US Business Spur
- Hist US- = Historic US Route
- Hist VT- = Vermont Numbered Route – Historic Route
- I- = Interstate
- NF- = National Forest Highway
- NSH- = Named State Highway
- Old U.S.- = Old US Route
- Old VT- = Vermont Numbered Route – Old Route
- S- = Other State Highway special case
- SF- = Department of Forests, Parks, and Recreation Highway
- TH- = Town Highway
- US- = US Route
- VT- = Vermont Numbered Route

43 – RTNUMBER

Maintained by: VTrans

Type: String
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 4

Description: This field is related to the RTNAME field. Everything after the dash "-" in the RTNAME field is transferred to this field. It should always match RTNAME. Previously known as RTNO.

44 – HWYSIGN

Maintained by: VTrans

Type: String
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 12

Description: The HWYSIGN corresponds to how the road is signed in the field by VTrans, with an added prefix (ex: "I-89", "VT-12A", "TH-3", "US-4", etc.). State and federal numbers will be unique for that highway for the entire state, while town-numbered highways will only be unique for that town. HWYSIGN = '-' is used for a blank (no data) value. The HWYSIGN field must not be empty. The HWYSIGN field is not the same as RTNAME. HWYSIGN should be consistent with how the road is signed by VTrans in the field. RTNAME should be consistent with how the road is marked on the official VTrans Town Highway Maps. These don't always match.

Field values:

- Alt US- = US Alternate Route
- BR I- = Interstate Business Route
- BR US- = US Business Route
- BSp I- = Interstate Business Spur
- BSp US- = US Business Spur
- Hist US- = Historic US Route
- Hist VT- = Vermont Numbered Route – Historic Route
- I- = Interstate
- NF- = National Forest Highway
- NSH- = Named State Highway
- Old US- = Old US Route
- Old VT- = Vermont Numbered Route – Old Route
- S- = Other State Highway special case
- SF- = Dept. of Forests, Parks and Recreation Highway
- TH- = Town Highway
- US- = US Route
- VT- = Vermont Numbered Route

45 – RPCCLASS

Maintained by: VTrans
Type: Short
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A

Precision: 5

Description: The RPCCLASS item indicates the road class, generally as shown on official VTrans highway maps. However, updates to the roads data have changed some road RPCCLASS codes based on local and/or regional review; therefore, in some cases the RPCCLASS values may not agree with current VTrans highway maps.

NOTE: This field is for the convenience of end-users only. Changes made to this field by end-users are unofficial and may not be maintained in the roads data layer. RPCCLASS may be reset to equal AOTCLASS whenever AOTCLASS is updated. Two attributes for road class are therefore used: the RPCCLASS code, which can be modified as needed for regional/local mapping, and the AOTCLASS code, which maintains agreement with the VTrans town highway maps. Comparison of the RPCCLASS and AOTCLASS attributes will help to identify roads needing class updates by VTrans. All arcs must be assigned RPCCLASS and AOTCLASS codes. In addition to the road class, the RPCCLASS field is used to indicate the road 'type' (as for codes 11 to 19). Although this road type is not technically the road class, it is convenient to embed the 'type' information in the RPCCLASS code for generating maps with lookup tables. These 'type' codes are needed for state routes and class 1 and 2 town highways, as well as for interstates and US routes. (See also AOTCLASS for specific code descriptions.)

46 – AOTCLASS

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 9

Domain: AOTClass

Type: CodedValue

Merge policy: DefaultValue

Split policy: Duplicate

Precision: 5

Description: This item will hold the official VTrans road class from the VTrans highway maps (see also the description for RPCCLASS). All arcs must be assigned an AOTCLASS code. AOTCLASS generally uses the same codes as the RPCCLASS field, except for codes 8 and 9 - some RPCs use 8 to identify private roads not generally used by the public and 9 to identify private roads in general use by the public, while VTrans uses 8 to identify private roads not shown on the Town Highway Maps (most private roads) and 9 to identify private roads shown on the Town Highway Maps. These are usually short connectors between public highways or roads such as the Mount Mansfield Toll Road. VTrans follows a statutory process to define and reclassify town highways based on information provided from each town on their annual Mileage Certificate. This certificate is a record of total mileage in each classification of highway. Any changes require proper documentation and following of the statutory process. VTrans will make corrections based on the formal documentation, but cannot alter classification without justification. Act 178 of 2006 formally added class 4 and legal trail mileage to the Mileage Certificates, prompting the need to distinguish between formally approved legal trails. VTrans has added the class of 70 for legal trails that have yet to be approved, and leaving class 7 for those legal trails that have been approved by Selectboards.

Field values:

- 1 = Town Highway Class 1 – undivided
- 2 = Town Highway Class 2 – undivided
- 3 = Town Highway Class 3 – undivided
- 4 = Town Highway Class 4 – undivided
- 5 = State Forest Highway
- 6 = National Forest Highway
- 7 = Legal trail
- 8 = Private road – no-show
- 9 = Private road
- 10 = Driveway (put in driveway)
- 11 = Town Highway Class 1 – northbound

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- 12 = Town Highway Class 1 – southbound
- 13 = Town Highway Class 1 – eastbound
- 14 = Town Highway Class 1 – westbound
- 15 = Town Highway Class 1 – on/off-ramp
- 16 = Town Highway Class 1 – emergency U-turn
- 17 = Town Highway Class 1 – rest area
- 19 = Town Highway Class 1 – other
- 20 = County Highway – undivided
- 21 = Town Highway Class 2 – northbound
- 22 = Town Highway Class 2 – southbound
- 23 = Town Highway Class 2 – eastbound
- 24 = Town Highway Class 2 – westbound
- 25 = Town Highway Class 2 – on/off-ramp
- 26 = Town Highway Class 2 – emergency U-turn
- 27 = Town Highway Class 2 – rest area
- 29 = Town Highway Class 2 – other
- 30 = State Highway – undivided
- 31 = State Highway – northbound
- 32 = State Highway – southbound
- 33 = State Highway – eastbound
- 34 = State Highway – westbound
- 35 = State Highway – on/off-ramp
- 36 = State Highway – emergency U-turn
- 37 = State Highway – rest area
- 39 = State Highway – other
- 40 = US Highway – undivided
- 41 = US Highway – northbound
- 42 = US Highway – southbound
- 43 = US Highway – eastbound
- 44 = US Highway – westbound
- 45 = US Highway – on/off-ramp
- 46 = US Highway – emergency U-turn
- 47 = US Highway – rest area
- 49 = US Highway – other
- 50 = Interstate Highway – undivided (not currently used)
- 51 = Interstate Highway – northbound
- 52 = Interstate Highway – southbound
- 53 = Interstate Highway – eastbound
- 54 = Interstate Highway – westbound
- 55 = Interstate Highway – on/off-ramp
- 56 = Interstate Highway – emergency U-turn
- 57 = Interstate Highway – rest area
- 59 = Interstate Highway – other
- 60 = US Government Highway
- 65 = Ferry
- 70 = Unconfirmed legal trail
- 71 = Unidentified corridor
- 80 = Proposed Highway – unknown class
- 81 = Proposed Town Highway Class 1
- 82 = Proposed Town Highway Class 2
- 83 = Proposed Town Highway Class 3
- 84 = Proposed State Highway
- 85 = Proposed US Highway
- 86 = Proposed Interstate Highway
- 87 = Proposed Interstate Highway – ramp
- 88 = Proposed non-Interstate Highway – ramp

89 = Proposed private road
91 = New – class unknown
92 = Military – no public access
93 = Public – class unknown
95 = Class under review
96 = Discontinued road
97 = Discontinued – now private
98 = Not a road
99 = Unknown

47 – NUTS

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: 'N'

Domain: N/A

Length: 1

Description: Sections of highway deemed "Not Up To Standard"; in short, sections of highway that do not meet Class 3 standards at the time of inventory and are functionally classified as Class 4, but legally still Class 3. Contact VTrans for more information.

Field values:

N = The highway is not "Not Up To Standard" (The highway meets Class 3 or better standards).

Y = The highway is "Not Up To Standard" (The highway does NOT meet Class 3 standards).

48 – NHS

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: National Highway System designation, as defined by FHWA.

NOTE: The Intermodal Connector is a new addition. Several of this type of highway exist within Vermont, primarily connections of the NHS to bus stations, airports and railroad stations.

Field values:

0 = Not on NHS

1 = NHS – Interstate

2 = ISTE A High-Priority Corridor

3 = Non-Interstate STRAHNET

4 = STRAHNET Connector

5 = ISTE A High-Priority Corridor/Non-Interstate STRAHNET

6 = ISTE A High-Priority/STRAHNET Connector

7 = NHS – Principal Arterial

8 = NHS – Intermodal Connector

10 = NHS MAP-21 Principal Connector

49 – FUNCL

Maintained by: VTrans

Type: Short
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Precision: 5

Description: Functional Class Code. Functional classification codes are based on a federal classification system in use by VTrans. In earlier releases of TransRoad_RDS, functional classes were distinguished between rural and transportation-defined urban areas (8 in Vermont). This required road arcs to be split at the rural/urban boundaries. The current functional classification codes eliminated separate urban and rural classifications (please note the rural, small urban, and urbanized area designation is kept as a separate item, see the attribute Urban_Code). The Urban Collectors default to Major Collectors. In Vermont, there has previously not been a road functionally classified as both "urban" and "minor collector." In the upcoming functional classification review prompted by the coding changes, VTrans will evaluate roadways based on the 2013 edition of the Federal Highway Administration's "Highway Functional Classification Concepts, Criteria, and Procedures," likely resulting in roadways functionally classified as minor collectors within the identified urban areas.

The boundaries of the Urbanized Area and the Small Urban Areas (Census Urban Clusters with population >5,000 as specified by the Federal Highway Administration) were adjusted for transportation planning purposes in a collaborative process between VTrans and the appropriate regional planning partners. The adjusted urban area encompasses the entire urban area (of population >5,000) defined by the Census Bureau, in a single, contiguous entity, and is designed to include areas outside municipal boundaries that have urban characteristics with residential, commercial, industrial or national defense land uses consistent with or related to the development patterns of the Census-defined boundary. The adjusted urban area is also inclusive of large traffic generators near the urban area, and is designed so that its physical location can be easily discerned in the field based on physical characteristics such as roads, railroads, utility lines and water features. Lastly, the adjusted urban area was then evaluated for feature irregularities to minimize confusion. Information from the VTrans Highway Safety Data Unit has been incorporated into this dataset.

NOTE: There have been several new additions and alterations which have been made to the functionally classed highways that were not reflected in the previous series of Federal Urban Area Maps or the Functional Class Map of the State of Vermont. These maps were updated in 2016 using the updated Functional Class road centerline data.

Field values:

- 0 = Not part of Functional Classification System
- 1 = Interstate
- 2 = Principal Arterial – other freeways and expressways
- 3 = Principal Arterial – other
- 4 = Minor Arterial
- 5 = Major Collector
- 6 = Minor Collector
- 7 = Local

50 – TWN_LR

Maintained by: VTrans
Type: String
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Length: 15

Description: Town-based linear reference code used to generate the town-based Linear Reference System data layer. The TWN_LR is related to the ETE_LR field but also includes the CTCODE. For example, the TWN_LR value for VT Route 12 in Montpelier is V012-1211 (ETE_LR = V012, CTCODE = 1211).

51 – ETE_LR

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 11

Description: Previously known as LR_ETE. It is used to identify "routed" roads, and is assigned by VTrans. This item contains an "end-to-end" LRS identifier used to identify routed roads. The ETE_LR can be broken down into the following components (or redefined items):

- Route Type

Field values:

A = Alternate Route

B = Business Route

I = Interstate

N = Named State Highway

S = Special Route: a town highway that is a major or minor collector, or is an urban route

U = US Route

V = VT Signed Route

- Route Number

The numeric portion of the highway number (three digits), right-justified in characters 2-4. For Named State Highways, Major Collectors, and Urban Collectors, four-digit codes are used (in characters 2 -5).

- Route # Modifier

Used for a letter or special modifier, if needed. Named State Highways, Major Collectors, and Urban Collectors retain their full four-digit codes in common usage. For these, the Highway Number and Modifier are combined to form a four-digit highway number. For the three separate sections of Alternate US 5, the modifiers (1 to 3) are:

A0051 = Alternate US 5, St. Johnsbury

A0052 = Alternate US 5, Newport

A0053 = Alternate US 5, Derby

Valid Highway # Modifier characters include:

[letter] = highway letter (e.g., the 'A' in Highway 2A)

[digit] = special cases (e.g., Alternate US 5); digit for a Named State Highway, Major, or Urban Collector

[blank] = cases where no modifier is needed and no subsequent components are needed for the ETE_LR

[dash] = cases where no modifier is needed but other ETE_LR components follow

- Direction

The direction character is included only if the highway is divided. However, it is NOT used for northbound or eastbound mainline routes. The direction character is used only with northbound or eastbound approaches, connectors, jughandles, ramps, and spurs.

Field values:

' ' = [blank] = undivided route with no subsequent ETE_LR components

E = eastbound (for divided routes)

N = northbound (for divided routes)

S = southbound (for divided routes)

W = westbound (for divided routes)

Examples:

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I089 = I-89, northbound lane

I089-S = I-89, southbound lane

U002 = US-2, undivided portions

U002-W = US-2, westbound portions (where divided)

V003-NA020 = VT 3, approach 20 (approaches generally use the same direction as the parent road)

- Subtype

This field describes sections of road that are not on the main line, yet have defined lengths recognized by the Agency.

Field values:

' ' = [blank] = no subtype

A = approach

C = connector

F = facilities/rest areas, turnouts, access roads

J = jughandle

R = ramp

S = spur

- Numeric ID

The ID number represents different things according to the subtype. Approaches and jughandles are numbered (initially) in ascending order from the start of the parent route in the primary direction. Numbers will increment by multiples of ten (ex: 10, 20, 30, 40, etc.). Gaps are left between numbers for future construction. For ramps and spurs, the number refers to the exit number for the parent route. A few ramps exit at locations that have no exit number; these have zeros in this field. Where no ID is required in this field, blanks are used.

- Alpha ID

This letter identifies ramps and spurs, as taken from the route logs (except for two ramps at I-91's Exit 2, which were named A/B and C/D on the route logs. These have been renamed 'E' and 'F', respectively.) Where no ID is required in this field, a blank space is used.

Examples:

U004 = US-4 eastbound, divided highway

U004-W = US-4 westbound, divided highway

V100-NA002 = VT-100, Approach #2

B004-WJ001 = Business Route US-4 westbound, Jughandle #1

I089-SR009A = I-89 southbound, Exit 9 ramp

52 – CTCODE

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 4

Description: County-Town code based on values defined by the Vermont Agency of Transportation, VTrans. The CTCODE is comprised of the first two digits representing the County and the last two digits representing the Town in alphabetical order within the County. The counties are numbered sequentially starting with Addison County (01) and ending with Windsor County (14). Each town is then numbered sequentially within each county, producing a unique CTCODE. The county-town code identifies the municipality in which each road falls. The CTCODE is evident on reference markers in the field, which include the CTCODE, route identifier and mile marker.

NOTE: The order of towns like Saint Albans (aka St. Albans) and Saint Johnsbury (aka St. Johnsbury) is based on the unabbreviated names - for example, in Caledonia County the CTCODE order for Saint Johnsbury places it between Ryegate and Sheffield (0310 Ryegate, 0311 Saint Johnsbury, 0312 Sheffield).

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NOTE: The CTCODE system was implemented before the Town of Sherburne changed its name to Killington - the name was changed, but the CTCODE was not (its CTCODE remained 1121, between 1120 Rutland Town and 1122 Shrewsbury).

See Appendix C for CTCODE list.

53 – UA

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: VTrans Urban Area Code. The Urban Area code identifies villages and other urbanized areas within the Minor Civil Divisions specified by the FIPS8 codes. The codes include 'urban compacts' having separate VTrans Town Highway Maps. The one-digit code is used in conjunction with the FIPS8 code to uniquely identify each urban area.

NOTE: Several villages have been merged with towns and the villages no longer exist. For mapping purposes, these villages may have become 'urban compacts'.

See Appendix D for the codes.

54 – CTUA

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 6

Description: CTCODE with UA Code, unique to all towns and Urban Areas in Vermont.

55 – CERTCODE

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 6

Description: Similar to CTUA, but unique only to the Mileage Certificates and towns that are autonomous for Highways. Urban Compacts and Villages not incorporated for highways carry the Town code.

56 – ARCMILES

Maintained by: VTrans

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 8

Description: Calculated mileage based on Arc attribute [Shape.STLength()] * 0.0006214). The ARCMILES item indicates the mileage on each segment of road. ARCMILES is the primary basis for the RDNAME route system measurements. The ARCMILES item is necessary for rebuilding or remeasuring the RDNAME route system. The ARCMILES field is simply the product of the LENGTH * .0006214. It is not intended to reflect or duplicate actual or official VTrans mileage.

57 – AOTMILES

Maintained by: VTrans

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 8

Description: The AOTMILES field indicates the "official" VTrans mileage on each segment of public highway. This includes all sections that are noted with mileage annotation on the Town Highway Map series. The AOTMILES are only for State Routes and Town Highways that are Class 1, 2, 3 or 4, and Legal Trails. If there is a mileage on the Town Highway Map, AOTMILES should be coded. The VTrans Mapping Unit uses AOTMILES to generate the mileage summaries and listings that are shown on the Town Highway Maps, prompting the need for accurate and complete mileage information. AOTMILES are rounded to the nearest 100th of a mile on Town Highways and 1000th of a mile on State Highways.

58 – AOTMILES_CALC

Maintained by: VTrans

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 8

Description: Used internally by VTrans to prorate AOTMILES across specific road segments while editing. Not for use outside of the Highway Mapping System.

59 – UPDACT

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 1

Description: Used for flagging the type of update made to an arc.

Field values:

A = Added arc (i.e., a new arc)

M = Moved arc (by reshaping the arc, moving a node, moving or deleting a vertex, or other action altering the shape of the arc)

S = Split arc (both new arcs are coded 'S')

U = Unsplit arc (originally 2 or more arcs)

NOTE: For S (split) and U (unsplit), the locations of the vertices may be unchanged. The shapes (and combined lengths) of the arcs may remain the same, but nodes may have been added, removed or moved along the arcs.

Moving a pseudo node is sometimes required to modify the location where an attribute changes. For example, a pseudo node will need to be changed in response to a change in the location of a town boundary. All the attributes for the two arcs remain the same; only the location of the pseudo node has changed. This would entail splitting and unsplitting the two arcs, and therefore would be coded as 'S' and 'U'.

Sometimes an arc may be modified more than once, in which case either of the appropriate UPDACT codes can be assigned. For example, an arc might be reshaped and then split. In such a case, the arcs could be coded with either an 'M' (moved) or an 'S' (split). Although it is not critical, it is preferable for the 'M' (moved) code to take precedence over the 'S' and 'U' codes (which don't alter the locations of vertices). Like wise, 'A' (added arc) takes precedence over the other codes, so that if an added arc is later split, the UPDACT code should remain 'A'.

1. A
2. M
3. S
4. U

It is not necessary to record changes to attributes.

60 – LOCMETH

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 5

Description: Method used to locate/digitize a road segment (arc). Many Class 4 roads, legal trails, and other roads are difficult to locate with confidence on the orthophotos. For such roads, a road clearly visible on the orthophoto may have been digitized and assigned a value equal to 2 due to the uncertainty of it was the correct road. Code 4 was not in use at the beginning of the original digitizing contract. For northern parts of the state [approximately north of northing STP meters 216000], roads not appearing on the orthophotos may have been given a value equal to 2. Use of the digital orthophotos is improving the accuracy of the road centerlines and any roads not clearly visible on the paper orthophotos may be moved to match the digital orthophotos. If this process is performed, the LOCMETH will be altered to reflect the new location method. (Please refer to SRCORG for the organization making the location alteration or addition.)

Field values:

- 1 = Visible on and digitized from a 1:5000 orthophoto (or better, as documented in the update record) with good degree of certainty as to location and correct RTNO (now known as RTNUMBER) attribute.
- 2 = Road not clearly visible on the orthophoto, but it appears that it probably was there at the time the photo was taken. Location estimated from the AOT maps, adjoining roads, and land features.
- 3 = Not clearly visible on the orthophoto; location estimated from State Forest maps.
- 4 = No indication of the road on the orthophoto; apparently a new road built since the orthophoto was taken. Location estimated from VTrans maps.

- 5 = Road centerlines drafted onto orthophotos from engineering drawings and the like.
- 6 = Invisible on the orthophoto, but located based on town or other local knowledge of the area.
- 7 = Digitized centerline of the parcel (tax map) road right-of-way.
- 8 = Screen digitized from drafting by town officials onto maps of approximately 1:15000 to 1:20000 scale.
- 9 = Coordinates captured via a GPS device utilizing "dead reckoning" with typical horizontal accuracy within five meters.

61 – SRCORG

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 5

Description: Organization/project which created/updated a road segment (arc). This attribute identifies the organization or project which digitized an arc. When a road arc is digitized, moved, or reshaped, the SRCORG code should be updated. The SRCORG codes will serve as a record of "who did it". VTrans currently updates the SRCORG field with a code of 26 for each altered arc. This includes arcs moved to match the orthophotos, splits due to new roads, or unsplit due to same attribution. LOCMETH and UPDACT can also be viewed to give pedigree or tracking of the latest changes to an arc.

Field values:

- 1 = VCGI, original data (assigned Sept 1993)
- 2 = VCGI, updated location
- 10 = Addison County RPC
- 11 = Bennington County RC
- 12 = Central VT RPC
- 13 = Chittenden County RPC
- 14 = Northwest RPC
- 15 = Lamoille County PC
- 16 = Northeast VT Development Assoc.
- 17 = Rutland RPC
- 18 = Southern Windsor RPC (or its contractor)
- 19 = Two Rivers-Ottawaquechee RPC
- 20 = Upper Valley-Lake Sunapee RPC
- 21 = Windham RPC
- 22 = microData, incorporated by CVRPC
- 23 = Incorporated from municipal updates
- 24 = E911 GIS database development project (1996)
- 25 = IVS Highway Mapping System Project
- 26 = VTrans HMS updates

62 – SCENICHWY

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: Highways officially designated as "Scenic Highways" by VTrans or municipalities. Previously known as SCENIC. The ability to designate a Scenic Highway is defined in Vermont Statute and documented on the Mileage Certificates. The VTrans Mapping Section maintains the official listing of Scenic Highways within the State of Vermont.

NOTE: There have been some sections of Town Highway in Norwich that have been designated as Scenic Highway, but are not coded due to the Selectboard's request not to map or distribute information regarding the highway's locations. Due to this request, the coding for SCENIC is incomplete in the Town of Norwich.

Field values:

- 0 = Not designated as Scenic Highway
- 1 = Designated as Scenic Highway by local municipality
- 2 = Designated as Scenic Highway by VTrans

63 – SCENICBYWAY

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: Designated Scenic Byways.

Field values:

- 0 = Not a scenic byway
- 100 = Connecticut River Scenic Byway
- 200 = Lake Champlain Byway
- 300 = Molly Stark Trail: A Byway Through the Green Mountains
- 400 = Mad River Byway
- 500 = Stone Valley Byway
- 600 = Green Mountain Byway
- 700 = The Crossroad of Vermont
- 800 = Scenic Route 100 Byway
- 900 = The Shires of Vermont Byway
- 1000 = Northeast Kingdom Byway

64 – FORMER_RTNAME

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 12

Description: Former Town Highway Number or Route Number for an arc. This is used primarily on Class 2 transfers, reclassifications of town highways to or from legal trails, or discontinuance of highways.

65 – PROVISIONALYEAR

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: Year a provisional highway is added to the VTrans Town Highway Map, based on information supplied by the town as part of the Certificate of Highway Mileage process. According to Vermont Statute, 19 V.S.A. § 302. Classification of town highways (a)(3)(C), a highway not meeting the minimum standards for a class 3 town highway may be reclassified as a provisional class 3 highway if within five years of the determination, it will meet all class 3 highway standards.

Null values are allowed in this field.

66 – ANCIENROADYEAR

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: Year a road that was considered an ancient road was added or most recently modified based on a change prompted by the Certificate of Highway Mileage process. This relates to Act 178 of 2006 and Act 158 of 2008 which sunset on July 1, 2015.

67 – TRUCKROUTE

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 5

Description: Designated Truck Routes. These designations identified which routes allowed up to 72-foot long trucks with no permits required. These designations are now obsolete, but remain in the data for historical purposes. Please consult the Vermont Department of Motor Vehicles for current rules, routes, and permitting for commercial trucking.

Field values:

0 = Not a truck route

100 = National Network – Limited Access (no overall length limit)

200 = Brattleboro VT-9 between I-91 and New Hampshire

300 = Truck Network, 72-foot limit (no permit)

400 = US-4, Permit Required

500 = Urban Avoidance Route, Part of Truck Network, 72-foot limit (no permit)

600 = Network – Limited Access (no overall length limit)

68 – SPEEDLIMIT

Maintained by: VTrans

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 8

Description: Speed limit. Currently a place holder for future use.

69 – ROADCLOSED

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: Road_Closed

Length: 15

Description: Road Closed status. Currently a placeholder for future use; incompletely populated in this release.

Field values:

Closed = Road closed

Closed_AVO = Road closed – passage restricted to authorized vehicles only

Closed_LTO = Road closed – passage restricted to local traffic only

Closed_W = Road closed for winter

Normal_SR = Normal service requested

Open = Road open

Open_CD = Road open with construction delays

Open_R = Road open with restrictions

70 – ISVISIBLE

Maintained by: VTrans

Type: Long

Required: False

Editable: True

Nullable: True

Default: 1

Domain: N/A

Precision: 10

Description: Flag used by the Highway Mapping System for cartographic purposes.

Field values:

0 = Not visible

1 = Visible

71 – CERTYEAR

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 5

Description: Year an arc was altered due to a change reflected on the Certificate of Highway Mileage.

72 – MAPYEAR

Maintained by: E911

Type: Date

Required: False

Editable: True

Nullable: True

Default: N/A

Description: Not defined and incompletely populated in this release.

73 – UPDATESOURCE

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 30

Description: The source of the information used to update a road segment; incompletely populated in this release.

74 – UPDATEDATE

Maintained by: E911

Type: Date

Required: False

Editable: True

Nullable: True

Default: N/A

Description: The year the feature was last updated; incompletely populated in this release.

75 – GPSUPDATE

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: 'Y'

Domain: GPSUpdate

Length: 1

Description: GPS update; incompletely populated in this release.

76 – GlobalID

Maintained by: Esri

Type: Global ID

Required: True

Editable: False

Nullable: False

Description: Globally Unique Identifier or GUID; not defined in this release.

77 – STATE

Maintained by: E911

Type: String

Required: False

Editable: True

Nullable: True

Default: 'VT'

Domain: N/A

Length: 2

Description: The state in which the road segment appears; incompletely populated in this release.

78 – GAP

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Not defined and incompletely populated in this release.

79 – GAPMILES

Maintained by: E911

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 8

Description: Not defined and incompletely populated in this release.

80 – GAPSTREETID

Maintained by: E911

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Not defined and incompletely populated in this release.

81 – FIPS8

Maintained by: VTrans

Type: Long
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Precision: 10

Description: Municipality (town, city, gore, grant) FIPS code. The FIPS8 code identifies the municipality in which each road falls, as shown on the VTrans Town Highway Maps. The FIPS8 code is a modified version of FIPS6 (as listed in the Geographic Area Codes Standard of the VGIS Handbook). FIPS8 includes the FIPS state code (for example: 50 for Vermont) + FIPS6. VTrans makes adjustments to the FIPS8 coding based on the best available information at its disposal. VTrans maintains its own version of the town boundaries, called townindex and townindex_arc. These data layers are sent to VCGI for review and inclusion of any pertinent changes into BNDHASH.

82 – RTNUMBER_N

Maintained by: VTrans
Type: Double
Required: False
Editable: True
Nullable: True
Default: 0
Precision: 38
Scale: 8

Description: Similar to RTNUMBER, but in numeric format. Previously known as RTNO_N. It is used to have public highway listings display in numeric order instead of text order - for example, a listing based on RTNUMBER would be ordered as 1, 10, 11, 2, 20, 21, while a listing based on RTNUMBER_N would be ordered as 1, 2, 10, 11, 20, 21. The letter suffix in routes is assigned a decimal value.

Examples:

100A = 100.10
100B = 100.20
100C = 100.30
US-ALT5 = 5.9
ALT VT-100 = 100.9

83 – RDNAME

Maintained by: VTrans
Type: Long
Required: False
Editable: True
Nullable: True
Default: N/A
Domain: N/A
Precision: 10

Description: Road name code. Road names are stored as an integer code, referencing look-up table RDS.RDNAMES. An integer code is used to minimize the space required in the road centerline attribute table. Each named road will have a unique RDNAME value and should reflect the "official" road name from E911, but there may have been some roads that either did not match in automated evaluation, or were missed. Users should generally turn to the E911\RDS data layer when they need "official" road name information and use the Trans_Road_RDS as a secondary name source. The current equivalent of RDNAME in E911RDS is GEONAMEID. Because GEONAMEID is incompletely populated in this release, VTrans continues its use of RDNAME until the VTrans and E911 road centerline data sets are

merged. A value of 99999999 indicates that the RDFLNAME entered by VTrans is more correct than the E911 PRIMARYNAME for the arc at the time the arc was added or modified.

84 – RDFLNAME

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 30

Description: Full road name. VTrans has put an effort forward to correct the TransRoad_RDS data layer to reflect the "official" road names from E911, but there may have been some roads that either did not match in automated evaluation, or were missed. The E911 data should still be used as the "official" source and the Trans_Road_RDS as a secondary name source.

NOTE: There currently isn't a reliable mechanism for maintenance of this item. Users should generally turn to the EmergencyE911_RDS data layer when they need "official" road name information. The current equivalent of RDFLNAME in E911RDS is PRIMARYNAME, but because PRIMARYNAME is incompletely populated in this release, VTrans will continue its use of RDFLNAME until the VTrans and E911 road centerline data sets are merged.

85 – ISVISIBLE_UC

Maintained by: VTrans

Type: Long

Required: False

Editable: True

Nullable: True

Default: 0

Domain: N/A

Precision: 10

Description: Flag used by the VTrans Highway Mapping System for cartographic purposes.

Field values:

0 = Not visible

1 = Visible

86 – Shape

Maintained by: Esri

Type: Geometry

Required: True

Editable: False

Nullable: True

Geometry Type: Line

Description: Feature geometry.

87 – FAID_N

Maintained by: VTrans

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 0

Description: This field will be removed in future releases. (See FAID for more information.)

88 – FUNCL_OLD

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 5

Description: Old Functional Class Code. These functional classification codes were used in the FUNCL field in data releases prior to 2015 and are based on a federal classification system in use by VTrans.

Functional classes distinguish between rural and transportation-defined urban areas (8 in Vermont).

Therefore, proper assignment of this attribute requires that road arcs be split at the rural/urban boundaries.

NOTE: See FUNCL for the current Functional Classification codes.

Field values:

0 = Not part of Functional Classification System

1 = Principal arterial – Interstate

2 = Rural principal arterial

4 = Rural principal arterial – other (not other freeway); not a standard federal code

6 = Rural minor arterial

7 = Rural major collector

8 = Rural minor collector

9 = Rural local

11 = Urban principal arterial – Interstate

12 = Urban principal arterial – other freeway

14 = Urban principal arterial – other

16 = Urban minor arterial

17 = Urban collector

19 = Urban local

89 – Urban_Code

Maintained by: VTrans

Type: Long

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 10

Description: Census urban code.

Field values:

11755 = Five-digit code to uniquely identify the Census 2010 Urbanized Area (population greater than or equal to 50,000) of Burlington, VT, adjusted for transportation planning purposes by VTrans in conjunction with regional planning partners.

99998 = Small Urban area to identify the Census Urban Clusters with a population greater than or equal to 5,000 and less than 50,000, adjusted for transportation planning purposes by VTrans in conjunction with regional planning partners.

99999 = Rural areas; all areas outside the adjusted Urbanized Area and Small Urban Area boundaries, for transportation planning purposes.

90 – FAID

Maintained by: VTrans

Type: Double

Required: False

Editable: True

Nullable: True

Default: N/A

Precision: 38

Scale: 0

Description: Calculated field based on FIPS8 and ARCID. The first eight digits represent the FIPS8 value and the last four digits represent the ARCID value.

91 – FED_AID

Maintained by: VTrans

Type: String

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Length: 15

Description: The Federal Aid Number for specific highway sections that are part of the Federal Aid Highway System or functionally classed as minor collectors. This number is used by VTrans in reporting on federal aid routes.

92 – Facility_Type

Maintained by: VTrans

Type: Short

Required: False

Editable: True

Nullable: True

Default: N/A

Domain: N/A

Precision: 5

Description: Facility_Type has been added to allow for better summary of mileage for the Federal Highway Administration's Highway Performance Monitoring System (HPMS). This field represents the operational characteristics of a highway segment, based on the definitions in the HPMS Field Manual. A copy of this manual can be found on-line at the following link:

http://www.fhwa.dot.gov/policyinformation/hpms/fieldmanual/HPMS_2014.pdf; see also

<http://www.fhwa.dot.gov/policyinformation/hpms/fieldmanual/chapter4b.cfm>.

Field values:

- 1 = One-Way Roadway – Roadway that operates with traffic moving in a single direction during non-peak period hours.
- 2 = Two-Way Roadway – Roadway that operates with traffic moving in both directions during non-peak period hours.
- 4 = Ramp – Non-mainline junction or connector facility contained within a grade-separated interchange.
- 5 = Non-Mainline – All non-mainline facilities excluding ramps.

- 6 = Non-Inventory Direction – Individual road/roads of a multi-road facility that is/are not used for determining the primary length for the facility.
- 7 = Planned/Unbuilt – Planned roadway that has yet to be constructed.

93 – CREATIONUSER

Maintained by: VTrans

Type: String

Required: False

Editable: False

Nullable: True

Default: N/A

Domain: N/A

Length: 50

Description: Added November 18, 2016 as one of four fields to be used for editor tracking. This field records the ArcSDE geodatabase user name of the user who created the arc.

94 – DATECREATED

Maintained by: VTrans

Type: Date

Required: False

Editable: False

Nullable: True

Default: N/A

Description: Added November 18, 2016 as one of four fields to be used for editor tracking. This field records the date and time the arc was created. The time is recorded in the database's local time zone (Eastern Time).

95 – LASTUSER

Maintained by: VTrans

Type: String

Required: False

Editable: False

Nullable: True

Default: N/A

Domain: N/A

Length: 50

Description: Added November 18, 2016 as one of four fields to be used for editor tracking. This field records the ArcSDE geodatabase user name of the user who last modified the record in any way.

96 – DATEMODIFIED

Maintained by: VTrans

Type: Date

Required: False

Editable: False

Nullable: True

Default: N/A

Description: Added November 18, 2016 as one of four fields to be used for editor tracking. This field records the date and time the record was modified in any way. The time is recorded in the database's local time zone (Eastern Time).

97 – Shape.STLength()

Maintained by: Esri

Type: Geometry

Required: True

Editable: False

Nullable: True

Geometry Type: Line

Description: Feature geometry. Automatically calculated length measurement of the arc in meters.

APPENDIX A

FIELD ORDER – DEFAULT VALUES - DOMAINS

FIELD ORDER – numeric indexing for each attribute corresponds to the order in which that field appears in the dataset’s attribute table.

Quick reference for all attributes

| Index | Field name | Maintaining agency | Type | Required | Editable | Nullable | Default | Domain |
|-------|--------------------|--------------------|-----------|----------|----------|----------|---------|--------|
| 1 | OBJECTID | Esri | Object ID | Y | N | N/A | N/A | N/A |
| 2 | SEGMENTID | E911 | Long | N | Y | Y | N | N |
| 3 | ARCID | VTrans | Long | N | Y | Y | N | N |
| 4 | STREETID | E911 | Long | N | Y | Y | N | N |
| 5 | PD | E911 | String | N | Y | Y | N | N |
| 6 | PT | E911 | String | N | Y | Y | N | N |
| 7 | SN | E911 | String | N | Y | Y | N | N |
| 8 | STREETID | E911 | String | N | Y | Y | N | N |
| 9 | SD | E911 | String | N | Y | Y | N | N |
| 10 | GEONAMEID | E911 | Long | N | Y | Y | N | N |
| 11 | USEGEONAMESALIASES | E911 | Long | N | Y | Y | Y | Y |
| 12 | PRIMARYNAME | E911 | String | N | Y | Y | N | N |
| 13 | ALINAME | E911 | String | N | Y | Y | N | N |
| 14 | ALIAS1 | E911 | String | N | Y | Y | N | N |
| 15 | ALIAS2 | E911 | String | N | Y | Y | N | N |
| 16 | ALIAS3 | E911 | String | N | Y | Y | N | N |
| 17 | ALIAS4 | E911 | String | N | Y | Y | N | N |
| 18 | ALIAS5 | E911 | String | N | Y | Y | N | N |
| 19 | COMMENTS | E911 | String | N | Y | Y | N | N |
| 20 | SURFACETYPE | VTrans | Short | N | Y | Y | N | Y |
| 21 | ONEWAY | VTrans | String | N | Y | Y | Y | Y |
| 22 | ADDRESSLOCK | E911 | Long | N | Y | Y | Y | Y |
| 23 | NO_MSAG | E911 | Long | N | Y | Y | N | N |
| 24 | C1_EXCEPTION | E911 | Long | N | Y | Y | N | N |
| 25 | MCODE | E911 | Long | N | Y | Y | N | N |
| 26 | LESN | E911 | Long | N | Y | Y | N | N |
| 27 | RESN | E911 | Long | N | Y | Y | N | N |
| 28 | LTWN | E911 | String | N | Y | Y | N | N |
| 29 | RTWN | E911 | String | N | Y | Y | N | N |
| 30 | LLO_A | E911 | Long | N | Y | Y | Y | N |
| 31 | RLO_A | E911 | Long | N | Y | Y | Y | N |
| 32 | LHI_A | E911 | Long | N | Y | Y | Y | N |
| 33 | RHI_A | E911 | Long | N | Y | Y | Y | N |
| 34 | LZIP | E911 | String | N | Y | Y | N | N |
| 35 | RZIP | E911 | String | N | Y | Y | N | N |
| 36 | LLO_T | E911 | Long | N | Y | Y | N | N |
| 37 | RLO_T | E911 | Long | N | Y | Y | N | N |
| 38 | LHI_T | E911 | Long | N | Y | Y | N | N |
| 39 | RHI_T | E911 | Long | N | Y | Y | N | N |
| 40 | ADDRESRANGEID | E911 | Long | N | Y | Y | N | N |

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| | | | | | | | | |
|----|-----------------|--------|-----------|---|---|---|-----|-----|
| 41 | ROUTEINCLUDE | E911 | Long | N | Y | Y | Y | Y |
| 42 | RTNAME | VTrans | String | N | Y | Y | N | N |
| 43 | RTNUMBER | VTrans | String | N | Y | Y | N | N |
| 44 | HWYSIGN | VTrans | String | N | Y | Y | N | N |
| 45 | RPCCLASS | VTrans | Short | N | Y | Y | N | N |
| 46 | AOTCLASS | VTrans | Short | N | Y | Y | Y | Y |
| 47 | NUTS | VTrans | String | N | Y | Y | Y | N |
| 48 | NHS | VTrans | Short | N | Y | Y | Y | N |
| 49 | FUNCL | VTrans | Short | N | Y | Y | N | N |
| 50 | TWN_LR | VTrans | String | N | Y | Y | N | N |
| 51 | ETE_LR | VTrans | String | N | Y | Y | N | N |
| 52 | CTCODE | VTrans | String | N | Y | Y | N | N |
| 53 | UA | VTrans | Short | N | Y | Y | Y | N |
| 54 | CTUA | VTrans | String | N | Y | Y | N | N |
| 55 | CERTCODE | VTrans | String | N | Y | Y | N | N |
| 56 | ARCMILES | VTrans | Double | N | Y | Y | N | N/A |
| 57 | AOTMILES | VTrans | Double | N | Y | Y | N | N/A |
| 58 | AOTMILES_CALC | VTrans | Double | N | Y | Y | N | N/A |
| 59 | UPDACT | VTrans | String | N | Y | Y | N | N |
| 60 | LOCMETH | VTrans | Short | N | Y | Y | N | N |
| 61 | SRCORG | VTrans | Short | N | Y | Y | N | N |
| 62 | SCENICHWY | VTrans | Short | N | Y | Y | Y | N |
| 63 | SCENICBYWAY | VTrans | Short | N | Y | Y | Y | N |
| 64 | FORMER_RTNAME | VTrans | String | N | Y | Y | N | N |
| 65 | PROVISIONALYEAR | VTrans | Short | N | Y | Y | Y | N |
| 66 | ANCIENTROADYEAR | VTrans | Short | N | Y | Y | Y | N |
| 67 | TRUCKROUTE | VTrans | Short | N | Y | Y | N | N |
| 68 | SPEEDLIMIT | VTrans | Double | N | Y | Y | N | N/A |
| 69 | ROADCLOSED | E911 | String | N | Y | Y | N | Y |
| 70 | ISVISIBLE | VTrans | Long | N | Y | Y | Y | N |
| 71 | CERTYEAR | VTrans | Short | N | Y | Y | Y | N |
| 72 | MAPYEAR | E911 | Date | N | Y | Y | N | N/A |
| 73 | UPDATESOURCE | E911 | String | N | Y | Y | N | N |
| 74 | UPDATEDATE | E911 | Date | N | Y | Y | N | N/A |
| 75 | GPSUPDATE | E911 | String | N | Y | Y | Y | Y |
| 76 | GlobalID | Esri | Global ID | Y | N | N | N/A | N/A |
| 77 | STATE | E911 | String | N | Y | Y | Y | N |
| 78 | GAP | E911 | Long | N | Y | Y | N | N |
| 79 | GAPMILES | E911 | Double | N | Y | Y | N | N/A |
| 80 | GAPSTREETID | E911 | Long | N | Y | Y | N | N |
| 81 | FIPS8 | VTrans | Long | N | Y | Y | N | N |
| 82 | RTNUMBER_N | VTrans | Double | N | Y | Y | Y | N/A |
| 83 | RDNAME | VTrans | Long | N | Y | Y | N | N |
| 84 | RDFLNAME | VTrans | String | N | Y | Y | N | N |
| 85 | ISVISIBLE_UC | VTrans | Long | N | Y | Y | Y | N |
| 86 | Shape | VTrans | Geometry | Y | N | N | N | N/A |
| 87 | FAID_N | VTrans | Double | N | Y | Y | N | N/A |
| 88 | FUNCL_OLD | VTrans | Short | N | Y | Y | N | N |
| 89 | Urban_Code | VTrans | Long | N | Y | Y | N | N |
| 90 | FAID | VTrans | Double | N | Y | Y | N | N/A |

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| | | | | | | | | |
|----|------------------|--------|----------|---|---|---|-----|---|
| 91 | FED_AID | VTrans | String | N | Y | Y | N | N |
| 92 | Facility_Type | VTrans | Short | N | Y | Y | N | N |
| 93 | CREATIONUSER | VTrans | String | N | N | Y | N | N |
| 94 | DATECREATED | VTrans | Date | N | N | Y | N | N |
| 95 | LASTUSER | VTrans | String | N | N | Y | N | N |
| 96 | DATEMODIFIED | VTrans | Date | N | N | Y | N | N |
| 97 | Shape.STLength() | Esri | Geometry | Y | N | Y | N/A | N |

ATTRIBUTES WITH DEFAULT VALUES

| Index | Field name | Default value |
|-------|--------------------|---------------|
| 11 | USEGEONAMESALIASES | 1 |
| 21 | ONEWAY | N |
| 22 | ADDRESSLOCK | 0 |
| 30 | LLO_A | 0 |
| 31 | RLO_A | 0 |
| 32 | LHI_A | 0 |
| 33 | RHI_A | 0 |
| 41 | ROUTEINCLUDE | 1 |
| 46 | AOTCLASS | 9 |
| 47 | NUTS | N |
| 48 | NHS | 0 |
| 53 | UA | 0 |
| 62 | SCENICHWY | 0 |
| 63 | SCENICBYWAY | 0 |
| 65 | PROVISIONALYEAR | 0 |
| 66 | ANCIENTROADYEAR | 0 |
| 70 | ISVISIBLE | 1 |
| 71 | CERTYEAR | 0 |
| 75 | GPSUPDATE | Y |
| 77 | STATE | VT |
| 82 | RTNUMBER_N | 0 |
| 85 | ISVISIBLE_UC | 0 |

ATTRIBUTES WITH DOMAINS

| Index | Field Name | Domain Name |
|-------|--------------------|-------------|
| 11 | USEGEONAMESALIASES | YesNo |
| 20 | SURFACETYPE | SurfaceType |
| 21 | ONEWAY | Oneway |
| 22 | ADDRESSLOCK | YesNo |
| 41 | ROUTEINCLUDE | YesNo |
| 46 | AOTCLASS | AOTClass |
| 69 | ROADCLOSED | Road_Closed |
| 75 | GPSUPDATE | GPSUpdate |

APPENDIX B

AGENCY ASSIGNMENT OF ATTRIBUTES

ATTRIBUTES MAINTAINED BY E911

| Index | Field name | Maintaining agency |
|-------|--------------------|--------------------|
| 2 | SEGMENTID | E911 |
| 4 | STREETID | E911 |
| 5 | PD | E911 |
| 6 | PT | E911 |
| 7 | SN | E911 |
| 8 | ST | E911 |
| 9 | SD | E911 |
| 10 | GEONAMEID | E911 |
| 11 | USEGEONAMESALIASES | E911 |
| 12 | PRIMARYNAME | E911 |
| 13 | ALINAME | E911 |
| 14 | ALIAS1 | E911 |
| 15 | ALIAS2 | E911 |
| 16 | ALIAS3 | E911 |
| 17 | ALIAS4 | E911 |
| 18 | ALIAS5 | E911 |
| 19 | COMMENTS | E911 |
| 22 | ADDRESSLOCK | E911 |
| 23 | NO_MSAG | E911 |
| 24 | C1_EXCEPTION | E911 |
| 25 | MCODE | E911 |
| 26 | LESN | E911 |
| 27 | RESN | E911 |
| 28 | LTWN | E911 |
| 29 | RTWN | E911 |
| 30 | LLO_A | E911 |
| 31 | RLO_A | E911 |
| 32 | LHI_A | E911 |
| 33 | RHI_A | E911 |
| 34 | LZIP | E911 |
| 35 | RZIP | E911 |
| 36 | LLO_T | E911 |
| 37 | RLO_T | E911 |
| 38 | LHI_T | E911 |
| 39 | RHI_T | E911 |
| 40 | ADDRESRANGEID | E911 |
| 41 | ROUTEINCLUDE | E911 |
| 69 | ROADCLOSED | E911 |
| 72 | MAPYEAR | E911 |
| 73 | UPDATESOURCE | E911 |
| 74 | UPDATEDATE | E911 |
| 75 | GPSUPDATE | E911 |
| 77 | STATE | E911 |

ATTRIBUTES MAINTAINED BY VTRANS

| Index | Field name | Maintaining agency |
|-------|-----------------|--------------------|
| 3 | ARCID | VTrans |
| 20 | SURFACETYPE | VTrans |
| 21 | ONEWAY | VTrans |
| 42 | RTNAME | VTrans |
| 43 | RTNUMBER | VTrans |
| 44 | HWYSIGN | VTrans |
| 45 | RPCCLASS | VTrans |
| 46 | AOTCLASS | VTrans |
| 47 | NUTS | VTrans |
| 48 | NHS | VTrans |
| 49 | FUNCL | VTrans |
| 50 | TWN_LR | VTrans |
| 51 | ETE_LR | VTrans |
| 52 | CTCODE | VTrans |
| 53 | UA | VTrans |
| 54 | CTUA | VTrans |
| 55 | CERTCODE | VTrans |
| 56 | ARCMILES | VTrans |
| 57 | AOTMILES | VTrans |
| 58 | AOTMILES_CALC | VTrans |
| 59 | UPDACT | VTrans |
| 60 | LOCMETH | VTrans |
| 61 | SRCORG | VTrans |
| 62 | SCENICHWY | VTrans |
| 63 | SCENICBYWAY | VTrans |
| 64 | FORMER_RTNAME | VTrans |
| 65 | PROVISIONALYEAR | VTrans |
| 66 | ANCIENTROADYEAR | VTrans |
| 67 | TRUCKROUTE | VTrans |
| 68 | SPEEDLIMIT | VTrans |
| 70 | ISVISIBLE | VTrans |
| 71 | CERTYEAR | VTrans |
| 81 | FIPS8 | VTrans |
| 82 | RTNUMBER_N | VTrans |
| 83 | RDNAME | VTrans |
| 84 | RDFLNAME | VTrans |
| 85 | ISVISIBLE_UC | VTrans |
| 86 | Shape | VTrans |
| 87 | FAID_N | VTrans |
| 88 | FUNCL_OLD | VTrans |
| 89 | Urban_Code | VTrans |
| 90 | FAID | VTrans |
| 91 | FED_AID | VTrans |

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| | | | | | |
|----|-------------|------|----|------------------|--------|
| 78 | GAP | E911 | 92 | Facility_Type | VTrans |
| 79 | GAPMILES | E911 | 93 | CREATIONUSER | VTrans |
| 80 | GAPSTREETID | E911 | 94 | DATECREATED | VTrans |
| | | | 95 | LASTUSER | VTrans |
| | | | 96 | DATEMODIFIED | VTrans |
| | | | 97 | Shape.STLength() | VTrans |

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APPENDIX C

CTCODE LIST (by county)

CTCODE TOWN

ADDISON

0101 Addison
0102 Bridport
0103 Bristol
0104 Cornwall
0105 Ferrisburgh
0106 Goshen
0107 Granville
0108 Hancock
0109 Leicester
0110 Lincoln
0111 Middlebury
0112 Monkton
0113 New Haven
0114 Orwell
0115 Panton
0116 Ripton
0117 Salisbury
0118 Shoreham
0119 Starksboro
0120 Vergennes City
0121 Waltham
0122 Weybridge
0123 Whiting

BENNINGTON

0201 Arlington
0202 Bennington
0203 Dorset
0204 Glastenbury
0205 Landgrove
0206 Manchester
0207 Peru
0208 Pownal
0209 Readsboro
0210 Rupert
0211 Sandgate
0212 Searsburg
0213 Shaftsbury
0214 Stamford
0215 Sunderland
0216 Winhall
0217 Woodford

CALEDONIA

0301 Barnet
0302 Burke
0303 Danville
0304 Groton
0305 Hardwick
0306 Kirby
0307 Lyndon
0308 Newark
0309 Peacham
0310 Ryegate
0311 St. Johnsbury
0312 Sheffield
0313 Stannard
0314 Sutton
0315 Walden
0316 Waterford
0317 Wheelock

CHITTENDEN

0401 Bolton
0402 Buels Gore
0403 Burlington City
0404 Charlotte
0405 Colchester
0406 Essex
0407 Hinesburg
0408 Huntington
0409 Jericho
0410 Milton
0411 Richmond
0412 St. George
0413 Shelburne
0414 South Burlington
City
0415 Underhill
0416 Westford
0417 Williston
0418 Winooski City

ESSEX

0501 Averill
0502 Averys Gore
0503 Bloomfield
0504 Brighton
0505 Brunswick
0506 Canaan
0507 Concord
0508 East Haven
0509 Ferdinand
0510 Granby
0511 Guildhall
0512 Lemington
0513 Lewis
0514 Lunenburg
0515 Maidstone
0516 Norton
0517 Victory
0518 Warners Grant
0519 Warren Gore

FRANKLIN

0601 Bakersfield
0602 Berkshire
0603 Enosburgh
0604 Fairfax
0605 Fairfield
0606 Fletcher
0607 Franklin
0608 Georgia
0609 Highgate
0610 Montgomery
0611 Richford
0612 St. Albans City
0613 St. Albans
0614 Sheldon
0615 Swanton

GRAND ISLE

0701 Alburgh
0702 Grand Isle
0703 Isle La Motte
0704 North Hero
0705 South Hero

LAMIOLLE

0801 Belvidere
0802 Cambridge
0803 Eden
0804 Elmore
0805 Hyde Park
0806 Johnson
0807 Morristown
0808 Stowe
0809 Waterville
0810 Wolcott

ORANGE

0901 Bradford
0902 Braintree
0903 Brookfield
0904 Chelsea
0905 Corinth
0906 Fairlee
0907 Newbury
0908 Orange
0909 Randolph
0910 Strafford
0911 Thetford
0912 Topsham
0913 Tunbridge
0914 Vershire
0915 Washington
0916 West Fairlee
0917 Williamstown

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ORLEANS

1001 Albany
1002 Barton
1003 Brownington
1004 Charleston
1005 Coventry
1006 Craftsbury
1007 Derby
1008 Glover
1009 Greensboro
1010 Holland
1011 Irasburg
1012 Jay
1013 Lowell
1014 Morgan
1015 Newport City
1016 Newport
1017 Troy
1018 Westfield
1019 Westmore

RUTLAND

1101 Benson
1102 Brandon
1103 Castleton
1104 Chittenden
1105 Clarendon
1106 Danby
1107 Fair Haven
1108 Hubbardton
1109 Ira
1110 Mendon
1111 Middletown Springs
1112 Mount Holly
1113 Mount Tabor
1114 Pawlet
1115 Pittsfield
1116 Pittsford
1117 Poultney
1118 Proctor
1119 Rutland City
1120 Rutland
1121 Killington
(formerly Sherburne)
1122 Shrewsbury
1123 Sudbury
1124 Tinmouth
1125 Wallingford
1126 Wells
1127 West Haven
1128 West Rutland

WASHINGTON

1201 Barre City
1202 Barre
1203 Berlin
1204 Cabot
1205 Calais
1206 Duxbury
1207 East Montpelier
1208 Fayston
1209 Marshfield
1210 Middlesex
1211 Montpelier City
1212 Moretown
1213 Northfield
1214 Plainfield
1215 Roxbury
1216 Waitsfield
1217 Warren
1218 Waterbury
1219 Woodbury
1220 Worcester

WINDHAM

1301 Athens
1302 Brattleboro
1303 Brookline
1304 Dover
1305 Dummerston
1306 Grafton
1307 Guilford
1308 Halifax
1309 Jamaica
1310 Londonderry
1311 Marlboro
1312 Newfane
1313 Putney
1314 Rockingham
1315 Somerset
1316 Stratton
1317 Townshend
1318 Vernon
1319 Wardsboro
1320 Westminster
1321 Whitingham
1322 Wilmington
1323 Windham

WINDSOR

1401 Andover
1402 Baltimore
1403 Barnard
1404 Bethel
1405 Bridgewater
1406 Cavendish
1407 Chester
1408 Hartford
1409 Hartland
1410 Ludlow
1411 Norwich
1412 Plymouth
1413 Pomfret
1414 Reading
1415 Rochester
1416 Royalton
1417 Sharon
1418 Springfield
1419 Stockbridge
1420 Weathersfield
1421 Weston
1422 West Windsor
1423 Windsor
1424 Woodstock

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APPENDIX D

UA CODES

The 1-digit code is used in conjunction with the CTCODE code to uniquely identify each urban area.

Listed in order of CTCODE, the UA codes include:

| CTCODE | UA | TOWN | CTCODE | UA | TOWN |
|--------|----|---------------------------------------|--------|----|-------------------------------------|
| 0103 | 1 | Bristol Urban Compact | 1001 | 1 | Albany Village |
| 0111 | 1 | Middlebury Urban Compact | 1002 | 1 | Barton Village |
| 0201 | 1 | Arlington Urban Compact | 1002 | 2 | Orleans Village |
| 0202 | 1 | North Bennington Village | 1007 | 1 | Derby Center Village |
| 0202 | 2 | Old Bennington Village | 1007 | 2 | Derby Line Village |
| 0202 | 3 | Bennington Urban Compact | 1017 | 1 | North Troy Village |
| 0206 | 1 | Manchester Village | 1102 | 1 | Brandon Urban Compact |
| 0206 | 2 | Manchester Center Depot Urban Compact | 1107 | 1 | Fair Haven Urban Compact |
| | | | 1117 | 1 | Poultney Village |
| 0302 | 1 | West Burke Village | 1118 | 1 | Proctor Urban Compact |
| 0304 | 1 | Groton Village | 1125 | 1 | Wallingford Urban Compact |
| 0305 | 1 | Hardwick Urban Compact | 1128 | 1 | West Rutland Urban Compact |
| 0307 | 1 | Lyndonville Village | 1209 | 1 | Marshfield Village |
| 0310 | 1 | South Ryegate Village | 1218 | 1 | Waterbury Village |
| 0311 | 1 | St. Johnsbury Urban Compact | 1302 | 1 | Brattleboro Urban Compact |
| 0406 | 1 | Essex Junction Village | 1302 | 2 | West Brattleboro Urban Compact |
| 0406 | 2 | Essex Center Urban Compact | 1312 | 1 | Newfane Village |
| 0409 | 1 | Jericho Village | 1314 | 1 | Bellows Falls Village |
| 0410 | 1 | Milton Urban Compact | 1314 | 2 | Saxtons River Village |
| 0504 | 1 | Island Pond Urban Compact | 1317 | 1 | Townshend Village |
| 0603 | 1 | Enosburg Falls Village | 1320 | 2 | Westminster Village |
| 0611 | 1 | Richford Urban Compact | 1321 | 1 | Jacksonville Village |
| 0615 | 1 | Swanton Village | 1407 | 1 | Chester-Chester Depot Urban Compact |
| 0701 | 1 | Alburgh Village | | | |
| 0802 | 1 | Cambridge Village | 1408 | 1 | White River Jct. Urban Compact |
| 0802 | 2 | Jeffersonville Village | 1408 | 2 | Wilder Urban Compact |
| 0805 | 1 | Hyde Park Village | 1410 | 1 | Ludlow Village |
| 0806 | 1 | Johnson Village | 1418 | 1 | Springfield Urban Compact |
| 0807 | 1 | Morrisville Village | 1418 | 2 | North Springfield Urban Compact |
| 0907 | 1 | Newbury Village | 1420 | 1 | Perkinsville Village |
| 0907 | 2 | Wells River Village | 1423 | 1 | Windsor Urban Compact |
| 0909 | 1 | Randolph Urban Compact | 1424 | 1 | Woodstock Village |

[end of document]