VTrans Road Centerline Spatial Data User Guide

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Vermont Agency of Transportation

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TABLE OF CONTENTS

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-fresh their database as features are modified and retired
Does not allow user to locate point events

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 <u>never</u> 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
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 = ISTEA High-Priority Corridor
3 = Non-Interstate STRAHNET
4 = STRAHNET Connector
5 = ISTEA High-Priority Corridor/Non-Interstate STRAHNET
6 = ISTEA 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:
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).

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 unsplits 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-Ottauquechee 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 – ANCIENTROADYEAR

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). This field has been superseded by DATECREATED_Converted which is in UTC 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). This field has been superseded by DATEMODIFIED_Converted.

97 – DATECREATED_Converted

Maintained by: VTrans
Type: Date
Required: False
Editable: False
Nullable: True
Default: N/A
Description: One of four fields used for editor tracking. This field records the date and time the arc was created. The time is recorded in UTC time. The field DATECREATED, which recorded in the database's local time zone (Eastern Time), was originally used for this purpose, but has been superseded by DATECREATED_Converted.

97 – DATEMODIFIED_Converted

Maintained by: VTrans
Type: Date
Required: False
Editable: False
Nullable: True
Default: N/A
Description: One of four fields used for editor tracking. This field records the date and time the record was modified in any way. The time is recorded in UTC time. The field DATEMODIFIED, which was in the database's local time zone (Eastern Time), was originally used for this purpose, but has been superseded by DATEMODIFIED_Converted.

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

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

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	DATECREATED_Converted	VTrans	Date	N	N	Y	N	N
98	DATEMODIFIED_Converted	VTrans	Date	N	N	Y	N	N
99	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

78	GAP	E911
79	GAPMILES	E911
80	GAPSTREETID	E911

92	Facility_Type	VTrans
93	CREATIONUSER	VTrans
94	DATECREATED	VTrans
95	LASTUSER	VTrans
96	DATEMODIFIED	VTrans
97	DATECREATED_Converted	VTrans
98	DATEMODIFIED_Converted	VTrans
97	Shape.STLength()	VTrans

APPENDIX C

CTCODE LIST (by county)

CTCODE TOWN

ADDISON		CALEDONIA		ESSEX		GRAND ISLE	
0101	Addison	0301	Barnet	0501	Averill	0701	Alburgh
0102	Bridport	0302	Burke	0502	Averys Gore	0702	Grand Isle
0103	Bristol	0303	Danville	0503	Bloomfield	0703	Isle La Motte
0104	Cornwall	0304	Groton	0504	Brighton	0704	North Hero
0105	Ferrisburgh	0305	Hardwick	0505	Brunswick	0705	South Hero
0106	Goshen	0306	Kirby	0506	Canaan		
0107	Granville	0307	Lyndon	0507	Concord		
0108	Hancock	0308	Newark	0508	East Haven		
0109	Leicester	0309	Peacham	0509	Ferdinand	LAMIOLLE	
0110	Lincoln	0310	Ryegate	0510	Granby	0801	Belvidere
0111	Middlebury	0311	St. Johnsbury	0511	Guildhall	0802	Cambridge
0112	Monkton	0312	Sheffield	0512	Lemington	0803	Eden
0113	New Haven	0313	Stannard	0513	Lewis	0804	Elmore
0114	Orwell	0314	Sutton	0514	Lunenburg	0805	Hyde Park
0115	Panton	0315	Walden	0515	Maidstone	0806	Johnson
0116	Ripton	0316	Waterford	0516	Norton	0807	Morristown
0117	Salisbury	0317	Wheelock	0517	Victory	0808	Stowe
0118	Shoreham			0518	Warners Grant	0809	Waterville
0119	Starksboro			0519	Warren Gore	0810	Wolcott
0120	Vergennes City						
0121	Waltham	CHITTENDEN					
0122	Weybridge	0401	Bolton				
0123	Whiting	0402	Buels Gore	FRANKLIN		ORANGE	
		0403	Burlington City	0601	Bakersfield	0901	Bradford
		0404	Charlotte	0602	Berkshire	0902	Braintree
		0405	Colchester	0603	Enosburgh	0903	Brookfield
BENNINGTON		0406	Essex	0604	Fairfax	0904	Chelsea
0201	Arlington	0407	Hinesburg	0605	Fairfield	0905	Corinth
0202	Bennington	0408	Huntington	0606	Fletcher	0906	Fairlee
0203	Dorset	0409	Jericho	0607	Franklin	0907	Newbury
0204	Glastenbury	0410	Milton	0608	Georgia	0908	Orange
0205	Landgrove	0411	Richmond	0609	Highgate	0909	Randolph
0206	Manchester	0412	St. George	0610	Montgomery	0910	Strafford
0207	Peru	0413	Shelburne	0611	Richford	0911	Thetford
0208	Pownal	0414	South Burlington	0612	St. Albans City	0912	Topsham
0209	Readsboro		City	0613	St. Albans	0913	Tunbridge
0210	Rupert	0415	Underhill	0614	Sheldon	0914	Vershire
0211	Sandgate	0416	Westford	0615	Swanton	0915	Washington
0212	Searsburg	0417	Williston			0916	West Fairlee
0213	Shaftsbury	0418	Winooski City			0917	Williamstown
0214	Stamford						
0215	Sunderland						
0216	Winhall						
0217	Woodford						

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

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
0103	1	Bristol Urban Compact
0111	1	Middlebury Urban Compact
0201	1	Arlington Urban Compact
0202	1	North Bennington Village
0202	2	Old Bennington Village
0202	3	Bennington Urban Compact
0206	1	Manchester Village
0206	2	Manchester Center Depot Urban Compact
0302	1	West Burke Village
0304	1	Groton Village
0305	1	Hardwick Urban Compact
0307	1	Lyndonville Village
0310	1	South Ryegate Village
0311	1	St. Johnsbury Urban Compact
0406	1	Essex Junction Village
0406	2	Essex Center Urban Compact
0409	1	Jericho Village
0410	1	Milton Urban Compact
0504	1	Island Pond Urban Compact
0603	1	Enosburg Falls Village
0611	1	Richford Urban Compact
0615	1	Swanton Village
0701	1	Alburgh Village
0802	1	Cambridge Village
0802	2	Jeffersonville Village
0805	1	Hyde Park Village
0806	1	Johnson Village
0807	1	Morrisville Village
0907	1	Newbury Village
0907	2	Wells River Village
0909	1	Randolph Urban Compact

CTCODE	UA	TOWN
1001	1	Albany Village
1002	1	Barton Village
1002	2	Orleans Village
1007	1	Derby Center Village
1007	2	Derby Line Village
1017	1	North Troy Village
1102	1	Brandon Urban Compact
1107	1	Fair Haven Urban Compact
1117	1	Poultney Village
1118	1	Proctor Urban Compact
1125	1	Wallingford Urban Compact
1128	1	West Rutland Urban Compact
1209	1	Marshfield Village
1218	1	Waterbury Village
1302	1	Brattleboro Urban Compact
1302	2	West Brattleboro Urban Compact
1312	1	Newfane Village
1314	1	Bellows Falls Village
1314	2	Saxtons River Village
1317	1	Townshend Village
1320	2	Westminster Village
1321	1	Jacksonville Village
1407	1	Chester-Chester Depot Urban Compact
1408	1	White River Jct. Urban Compact
1408	2	Wilder Urban Compact
1410	1	Ludlow Village
1418	1	Springfield Urban Compact
1418	2	North Springfield Urban Compact
1420	1	Perkinsville Village
1423	1	Windsor Urban Compact
1424	1	Woodstock Village

[end of document]