



**TELE ATLAS NORTH AMERICA, INC.
GOVERNMENT LICENSE AGREEMENT**

Company Name: Delaware Department of Transportation a State of Delaware Agency
Contact Name: Don Burris Telephone No.: 302-760-2629
Address: 800 Bay Rd. PO BOX 778 Fax. No: 302-760-2790
City: Dover State: DE ZIP: 19903

By executing the Government License Agreement (“the Agreement”), Tele Atlas North America, Inc. (“TANA”) and the customer named herein (“Licensee”) agree to the following terms:

1. **License Grant.** Subject to the terms and conditions of this Agreement, TANA hereby grants to Licensee a non-exclusive, non-transferable license to use the product(s) identified on Attachment A along with associated documentation and any Updates provided to Licensee (“Licensed Products”) for:

- (a) perpetual use for internal use only and not for commercial use or resale, for the number of Users identified on Attachment A. A “User” means any single individual or device that is able to access the Licensed Products even if only for occasional use, and not a concurrent user.
- (b) non-perpetual Internet license for use of the Licensed Products. Internet usage of data is permitted for “Web Locator” applications where the general public may enter a single address in order to locate themselves or the nearest object of interest. Within these applications, data and any derived results may be published as bitmaps with the appropriate copyright information. Users of Licensee’s website will have the ability to enter a single address or telephone number to locate Licensee’s customer’s service or business locations. TANA’s latitude and longitude coordinates, address range, ZIP+4 and Census attribute data shall be protected and shall not be extractable. No other product generated from the Licensed Products shall be disclosed, licensed or sold, in whole or in part, to any third party, without TANA’s express written permission.

An “Update” means a release of the Licensed Products that incorporates additional or updated data. Updates will be distributed to Licensee in accordance with the schedule set forth on Attachment A. “Updates” do not include new versions of the Licensed Products that contain substantial new features or functionality, or are considered new products. No part of the Licensed Products, or any derivation thereof, shall be disclosed to third parties or used for the benefit of third parties. Except as necessary for backup and archival purposes, Licensee may not make any copies of the Licensed Products. Licensee shall not use the Licensed Products to provide competitive information about TANA or the Licensed Products to third parties. Unless otherwise permitted, Licensee shall not use the Licensed Products for in-car navigation applications (meaning a permanently installed device that provides real-time guidance and real-time map display to indicate the position of a vehicle, or other real-time information used to support turn-by-turn navigation). If this Agreement includes the municipal boundaries product, currently marketed as Dynamap®/Municipal Boundaries, as one of the Licensed Product(s), then Licensee shall not use the Municipal Boundaries product to create or derive applications which are used for the purpose of tariff or tax rate determination for a particular address or range of addresses. Title to the Licensed Products remains with TANA and its third party providers and all rights not expressly granted herein are reserved.

2. **Proprietary Rights**

2.1 **Confidentiality and Protection of Licensed Products.** The Licensed Products include confidential and proprietary information and materials. Accordingly, Licensee agrees to hold the Licensed Products in confidence and trust. Licensee agrees to take reasonable steps to protect the Licensed Products from misappropriation or misuse. Licensee agrees not to extract standalone data from or publish any part of the Licensed Products without the prior written consent of TANA. Licensee may disclose relevant aspects of the Licensed Products to its employees, agents or representatives with a need to know who are bound by confidentiality obligations at least as protective as this provision. Licensee acknowledges that the terms of this Agreement are confidential and it will not disclose such information to third parties. On all copies of any media containing the Licensed Products or parts thereof, Licensee shall reproduce any copyright or proprietary rights notices contained on the original media and in the user manual(s). Licensee acknowledges that a breach by Licensee of its obligations under this Section or a breach of the license granted would cause TANA irreparable harm and, in the event of such a breach or threatened breach, TANA shall be entitled to injunctive and other appropriate equitable relief without posting bond or proving that damages would not be an adequate remedy.

2.2 **Government Agency.** If Licensee is a state, federal or other public entity (“Government”), Licensee agrees to protect the Licensed Products from public disclosure. In the event that Licensee is required to disclose the Licensed Products under any law or regulation that permits public access and/or reproduction or use of the Licensed Products, Licensee shall notify TANA in writing prior to such disclosure and if TANA is unable to comply with such disclosure, this Agreement shall be automatically terminated and considered immediately null and void. Any software, documentation and/or data delivered hereunder is subject to the term of this Agreement. Any computer software, computer software documentation and/or technical data delivered hereunder to the Government, either directly under a prime contract, or indirectly through subcontract, is subject to the terms of this Agreement. In no event shall the Government acquire rights greater than LIMITED or RESTRICTED rights as described in DFARS 252.227-7014(a)(1) (JUN 1995) (DOD commercial

computer software definition), DFARS 227.7202-1 (DOD policy on commercial computer software), FAR 52.227-19 (JUN 1987) (commercial computer software clause for civilian agencies), DFARS 252.227-7015 (NOV 1995) (DOD technical data – commercial items clause); FAR 52.227-14 Alternates I, II, and III (JUN 1987) (civilian agency technical data and noncommercial computer software clause); and/or FAR 12.211 and FAR 12.212 (commercial item acquisitions), as applicable. In case of conflict between any of the FAR and DFARS provisions listed herein and this Agreement, the construction that provides greater limitations on the Government's rights shall control.

3. **Warranty**

3.1 **Limited Warranty.** TANA warrants that the media containing the Licensed Products is free from defects in materials and workmanship on date of delivery. If the media possesses manufacturing defects, TANA will provide Licensee with a replacement copy of the Licensed Products within a commercially reasonable time after notice from Licensee. LICENSEE'S SOLE AND EXCLUSIVE REMEDY AND TANA'S ENTIRE OBLIGATION UNDER THIS LIMITED WARRANTY IS TO REPAIR OR REPLACE THE LICENSED PRODUCTS WITH CONFORMING LICENSED PRODUCTS SUBJECT TO PROMPT NOTICE OF NON-CONFORMITY AND AT TANA'S OPTION IF SUCH ALTERNATIVES ARE NOT FEASIBLE, TO TERMINATE THIS AGREEMENT AND REFUND THE APPLICABLE FEES PAID WITH RESPECT TO SUCH NON-CONFORMING LICENSED PRODUCT.

3.2 **DISCLAIMER.** EXCEPT AS PROVIDED IN SECTION 3.1 ABOVE, THE LICENSED PRODUCTS ARE PROVIDED ON AN "AS IS" AND "WITH ALL FAULTS BASIS" AND TANA AND ITS SUPPLIERS EXPRESSLY DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, SATISFACTORY QUALITY, ACCURACY, COMPLETENESS, TITLE AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN ADVICE OR INFORMATION PROVIDED BY TANA OR ANY OF ITS AGENTS, EMPLOYEES OR THIRD PARTY PROVIDERS SHALL CREATE A WARRANTY, AND LICENSEE IS NOT ENTITLED TO RELY ON ANY SUCH ADVICE OR INFORMATION. THIS DISCLAIMER OF WARRANTIES IS AN ESSENTIAL CONDITION OF THE AGREEMENT.

4. **Updates.** TANA will deliver Updates to the Licensed Products to Licensee for the period of time and on the delivery schedule identified on Attachment A.

5. **Support.** If Licensee promptly gives TANA written notice and documentation of a discovered defect in the Licensed Products sufficient to enable TANA to reproduce the problem, and, thereafter, provides such additional information as TANA may reasonably request, TANA will use reasonable efforts to promptly correct major defects; and correct minor or ordinary defects by the next general commercial release of the Licensed Products. TANA shall not be obligated to provide corrections to the Licensed Products in the event that the errors are caused by Licensee. TANA will provide the foregoing support for each version of the Licensed Products for a period of twelve (12) months from the date of commercial release of such version.

6. **Fees.** Licensee shall pay to TANA the license fees indicated on Attachment A (the "License Fees"). The License Fees shall be due and payable as set forth on Attachment A. If Licensee desires to increase the number of Users or purchase a license to additional Licensed Products, the parties may do so by amending this Agreement.

7. **Payment and Records.** All outstanding amounts not paid when due shall bear interest at the maximum allowable statutory rate at the time or two percent (2%) per month, whichever is less. Fees do not include any sales, use or other taxes that may apply and all such taxes are the responsibility of Licensee. TANA retains the right to withhold shipment of Licensed Products for failure to pay fees due. Licensee shall maintain complete and accurate records documenting compliance with this Agreement and retain such records for a minimum of three (3) years from the last payment due hereunder. During the term and for a period of one (1) year after expiration or termination, TANA shall have the right, at its expense and upon reasonable notice, to examine, or to have its representative(s) examine, Licensee's records and/or operations to verify Licensee's compliance with the requirements of this Agreement and the amounts due to TANA.

8. **Limitation of Liability.** EXCEPT WITH RESPECT TO A VIOLATION OF CONFIDENTIALITY OR A BREACH BY LICENSEE OF THE LICENSE, NEITHER PARTY NOR ITS LICENSORS SHALL BE LIABLE TO THE OTHER PARTY FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES ARISING OUT OF THIS AGREEMENT, INCLUDING LOST PROFITS, COSTS OF COVER, DAMAGES FOR LOSS OF USE OR INTERRUPTION OF BUSINESS AND THE LIKE, REGARDLESS OF WHETHER THE PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. EXCEPT WITH RESPECT TO A VIOLATION OF CONFIDENTIALITY OR A BREACH BY LICENSEE OF THE LICENSE, IN NO EVENT WILL THE TOTAL LIABILITY OF EITHER PARTY OR ITS LICENSORS ARISING OUT OF THIS AGREEMENT EXCEED THE AMOUNTS PAID OR PAYABLE TO TANA IN THE TWELVE (12) MONTH PERIOD PRIOR TO THE DATE ON WHICH THE CLAIM AROSE.

9. **Term and Termination**

9.1 **Term of Agreement** The term of this Agreement is for three (3) years (the "Initial Term"). Term relates to delivery and payment. This Agreement shall continue thereafter for successive one (1) year renewal periods (each a "Renewal Term"; collectively "the Term") if Licensee provides TANA with a purchase order by the anniversary date of the Agreement in order to receive subsequent shipments of the Licensed Products at the terms contained herein. State funding

is subject to state appropriation of funds. Should Licensee fail to receive funding, Licensee shall have perpetual use of the Licensed Products for internal use however Internet usage is non-perpetual and must cease.

9.2 **Termination.** This Agreement shall become effective as of the Effective Date as set forth below and shall remain in force until terminated as provided herein. Either party may terminate this Agreement on written notice in the event of a material breach by the other party that remains uncured for a period of thirty (30) days from the date of notice to cure, provided that in the event of a breach of the scope of the licenses granted the cure period shall be ten (10) days. Either party may terminate this Agreement on written notice to the other party in the event the other party ceases to do business in the ordinary course, makes a general assignment for the benefit of creditors or commences or has commenced against it any insolvency or receivership proceedings.

9.3 **Effect of Termination.** Upon termination of this Agreement by TANA for Licensee's breach, Licensee shall: (a) immediately discontinue use and return to TANA or destroy all copies of the Licensed Products in its possession; (b) pay to TANA, within ten (10) days after the date of such termination, an amount equal to the License Fees as set forth on page 1 of this Agreement for the remainder of the Term; and (c) provide an affidavit signed by an officer, or other authorized individual, attesting to the performance of items (a) and (b) and acknowledging the continuing obligations of confidentiality under Section 2.1. Sections 2.1, 2.2, 3.2, 7, 8, 9 and 10 shall survive termination of this Agreement.

10. **General**

10.1 **Compliance with Laws.** Licensee will comply with all laws applicable in connection with use of the Licensed Products. Licensee acknowledges and understands that the Licensed Products may be subject to restrictions on export and agrees to comply with any applicable export laws.

10.2 **Publicity.** If either party wishes to issue a press release or engage in marketing activities in connection with this Agreement, such releases will be subject to prior review and written approval of the other party. Licensee agrees that TANA may publicly announce and list Licensee as a customer of TANA.

10.3 **Independent Contractors.** The parties are independent contractors. Neither party shall be deemed to be an employee, agent, partner or legal representative of the other for any purpose and neither shall have any right, power or authority to create any obligation or responsibility on behalf of the other.

10.4 **Assignment.** Licensee may not assign this Agreement without the prior written consent of TANA. Any assignment in violation of the foregoing sentence will be null and void. Subject to the foregoing, this Agreement will bind and inure to the benefit of the parties, their respective successors and permitted assigns.

10.5 **Indemnification.** Except with respect to the claims for defects solely attributable to the Licensed Products, Licensee shall protect, defend, indemnify and hold TANA harmless from any and all claims, demands, liabilities, obligations, damages, suits, judgments or settlements, including reasonable costs and attorneys' fees, that arise from the subject matter of this Agreement.

10.6 **No Waiver.** A failure or delay by either party in enforcing any right or remedy under this Agreement shall not be construed as a waiver of such right or remedy or of any future exercise of such right or remedy, or of any other right or remedy, by such party.

10.7 **Governing Law.** This Agreement shall be governed by the laws of the State of Delaware without reference to conflicts of law principles. All disputes relating to this Agreement shall be settled by arbitration under the rules of the American Arbitration Association with hearings to be held in Boston Massachusetts. Any award made by the arbitration panel, however constituted, shall be final, binding and conclusive on all parties for all purposes and judgment may be entered thereon by any state or federal court having jurisdiction. In addition to any settlement in a dispute, the prevailing party shall be entitled to the recovery of its reasonable attorneys' fees and associated fees and expenses.

10.8 **Signatures.** Facsimile signatures shall be deemed valid as original for all purposes. Digital signatures shall be deemed valid as original for all purposes provided that such digital signature is capable of verification and is linked to data in such a manner that if the data are changed, the digital signature is invalidated.

10.9 **Counterparts.** This Agreement may be executed in any number of duplicate counterparts, each of which is an original, and all of which together shall constitute one and the same instrument.

10.10 **Severability.** Except with respect to Section 2.2, in which case this entire Agreement shall be considered terminated, if any other provision of this Agreement is held by a court of competent jurisdiction to be contrary to law, such provision shall be changed and interpreted so as to best accomplish the objectives of the original provision to the fullest extent allowed by law and the remaining provisions of this Agreement shall remain in full force and effect.

10.11 **Force Majeure.** Neither party will be liable for any failure or delay in its performance under this Agreement, except the making of payments, due to causes which are beyond its reasonable control, including an act of God, act of civil or military authority, fire, epidemic, flood, earthquake, riot, war, sabotage, failure of suppliers and governmental action.

10.12 **No Other Terms.** The terms and conditions of this Agreement govern all transactions contemplated by this Agreement including all orders by Licensee. Any proposed variation from or addition to these terms and conditions appearing on any purchase order or other document submitted by Licensee are null and void.

10.13 **Entire Agreement; Amendment.** This Agreement supersedes all prior and contemporaneous agreements and understandings between the parties relating to the subject matter of this Agreement and constitutes the sole and entire agreement of the parties. This Agreement may only be amended in a writing signed by both parties.

10.14 **Notices.** All notices, demands or consents required or permitted under this Agreement shall be in writing. Notice shall be considered delivered and effective when (a) personally delivered; (b) two days following transmission if sent by facsimile with confirmation of receipt; (c) one (1) day after posting when sent by reputable private overnight carrier (e.g., DHL, Federal Express, etc.); or (d) five (5) days after posting when sent by certified United States mail. Notice shall be sent to the parties at the addresses set forth below or at such other address as shall be given by either party to the other in writing.

If to TANA:

Tele Atlas North America, Inc.
11 Lafayette Street
Lebanon, NH 03766-1445
Attention: Contracts Department
Phone: 603/643-0330
Fax: 603/643-5210

If to Licensee:

Delaware Department of Transportation
800 Bay Rd. PO BOX 778
Dover, DE 19903
Attention: Don Burriss
Phone: 302-760-2629
Fax: 302-760-2790
E-mail: don.burriss@state.de.us

11. **Effective Date** The Effective Date of this Agreement is September 1, 2006.

TANA: Tele Atlas North America, Inc.

Licensee: Delaware Department of Transportation

[duly authorized]
Ilse Ramsey

(print or type name)
Vice President, Finance & Administration

title

date

[duly authorized]

(print or type name)

title

date

Attachment A

This attachment details the pricing and update schedule for the End User License Agreement between TANA and Licensee. All Licensed Products will be delivered on CD-ROM media.

Number of Users

This is an Enterprise License for unlimited internal User(s). Use of the Licensed Products is allowed by all employees of, and contractors for, state of Delaware agencies, state of Delaware counties, state of Delaware municipalities, and all political subdivisions of the state of Delaware.

Licensed Products

Custom Dynamap[®]/Transportation, commencing with version 8.2, coverage for the state of Delaware, provided in ESRI Personal Geodatabase format, WGS 84 Datum, Delaware State Plane coordinate reference (meters), tiled by county and including Linear Reference System ("LRS") identifiers as conflated by TANA for the (3) Delaware counties, using content provided by Licensee, quarterly Updates (total of four (4) shipments per year). This deliverable will be known as the Delaware Data Product ("DDP").

See Attachment B for a detailed description of the dataset specifications, including details of layers and individual fields. Layer summaries and record layout are subject to change due to product enhancements. TANA will notify Licensee prior to the shipment of any product enhancements.

Please note that the above Licensed Product may only be delivered at the completion of a custom project with Geodecisions, Inc., a Pennsylvania corporation, located at Post Office Box 67100, Harrisburg, PA 17106-7100 ("Geodecisions.") which calls for realignment and LRS integration. This project is preliminary in nature and will be under a separate agreement. TANA's initial shipment of the above Licensed Product is custom and still under preliminary discussion.

Dynamap[®]/Transportation, commencing with version 8.2, coverage with the following (23) counties as outlined below, provided in ESRI Personal Geodatabase format, WGS 84 Datum, Delaware State Plane coordinate reference (meters), tiled by county, quarterly Updates (total of four (4) shipments per year).

Surrounding Counties:

Pennsylvania: Chester, Delaware, Montgomery, Philadelphia

New Jersey: Gloucester, Salem, Cumberland, Cape May, Camden, Atlantic

Maryland: Worcester, Wicomico, Dorchester, Caroline, Queen Anne's, Kent, Cecil, Harford, Baltimore, Baltimore City, Talbot, Somerset

Virginia: Accomack

Dynamap[®]/Transportation Data Pack, Route Server format, most current version, updates as available (minimum one (1) per year).

Dynamap[®]/Block Boundaries, commencing with version 8.0, coverage for the state of Delaware, ArcView[®] format, tiled by county, annual Updates (total of one (1) shipment per year).

Dynamap[®]/Block Group Boundaries, Tract, MCD and Place, commencing with version 8.0, coverage for the state of Delaware, ArcView[®] format, tiled by state, annual Updates (total of one (1) shipment per year).

Dynamap[®]/Tract Boundaries, MCD and Place, commencing with version 8.0, coverage for the state of Delaware, ArcView[®] format, tiled by state, annual Updates (total of one (1) shipment per year).

Dynamap[®]/MCD Boundaries, commencing with version 8.0, coverage for the state of Delaware, ArcView[®] format, tiled by state, annual Updates (total of one (1) shipment per year).

Dynamap[®]/Place Boundaries, commencing with version 8.0, coverage for the state of Delaware, ArcView[®] format, tiled by state, annual Updates (total of one (1) shipment per year).

Dynamap[®] FGDC Metadata Dynamap[®]/Transportation, commencing with latest version, quarterly Updates (total of four (4) shipments per year).

Annual License Fee

Licensee shall pay to TANA an annual license fee (the "Annual License Fee") for their right to utilize the Licensed Products within the terms and conditions of this Agreement.

In the first year of the Agreement the Annual License Fee is One Hundred Twenty Thousand Dollars (\$120,000). In each subsequent year thereafter, the Annual License Fee is One Hundred Twenty Five Thousand Dollars (\$125,000).

This is not a perpetual license. For each additional year Licensee chooses to continue the use of the Licensed Products, Licensee is obligated to pay TANA the Annual License Fee. Licensee must provide TANA with a purchase order by the anniversary date of the Agreement in order for TANA to authorize delivery of that year's Update of the Licensed Products. Upon shipment of the Licensed Products, TANA will invoice Licensee for the Annual License Fee.

Payment

TANA will invoice Licensee for the first year Annual License Fee upon TANA's initial shipment of Licensed Products with payment due within thirty (30) days.

In subsequent years, TANA will invoice Licensee for the Annual License Fee upon TANA's receipt of an authorized purchase order from Licensee and upon that year's initial shipment of the Licensed Products with payment due within thirty (30) days.

Delivery – subject to change depending of the Geodecision project

In the first year of the Agreement only, TANA will ship the initial delivery of the Licensed Product within thirty (30) business days of TANA's receipt of the executed Agreement and purchase order from Licensee and TANA's completion of the custom project with Geodecisions. Updates of the Licensed Products will be delivered according to TANA's commercial release schedule.

Note: This pricing offer is valid provided the Agreement is executed by September 30, 2006.

Attachment B

Deliverable Dataset Specifications Including Details of Layers & Individual Fields

This is a description of the dataset, layer parameters and attribute table column definitions for the data available to be supplied in ESRI Personal Geodatabase format. The Delaware Data Product and surrounding counties will be supplied in individual county tiles.

In the description below, attributes are listed by table column heading and data type. Not all attributes contain a value. Note that all of the TANA attributes will be included in the shipment to the Licensee. This specification follows TANA standards for Dynamap[®]/Transportation layers, field names and the general configuration of the product deliverable.

Dataset Parameters

COORDINATE SYSTEM:	Delaware State Plane
SYSTEM UNITS:	Meters
DATUM:	WGS84
PROJECTION:	Transverse_Mercator
SCALE FACTOR:	1.0

Delaware Data Product Layer Summary

Layer Contains	Business Table Name
Highway	HIGHWAY
Street	STREET
Tolls (Table Only)	TOLL
Railroad	RAILROAD
Linear Water	LINEAR_WATER
Turn Restrictions	TURN_RESTRICTION
Maneuvers	MANEUVER
Placeholder	PLACEHOLDER
Exits	EXITS
Recreation Area	RECREATION_AREA
Transportation Terminal	TRANSPORTATION_TERMINAL
Major Retail Center	RETAIL_CENTER
Institution	INSTITUTION
Postal Code Inventory	POSTAL_INVENTORY
County/CD Inventory	COUNTY_INVENTORY
Populated Locality Inventory	POPULATED_INVENTORY
State/Province Inventory	STATE_INVENTORY
Airport	AIRPORT
Large Area Landmark	AREA_LANDMARK
Park	PARK
Major Water	MAJOR_WATER
Water Polygon	WATER_POLYGON
Postal Code Boundary	POSTAL_BOUNDARY
County/CD Boundary	COUNTY_BOUNDARY
Place Boundary	PLACE_BOUNDARY
State/Province Boundary	STATE_BOUNDARY
Nation Boundary	NATION_BOUNDARY

NOTES:

The Nation Boundary layer is provided as a worldwide tile and, as such, will not be projected into the Delaware State Plane coordinate system. It will instead load into WGS84, geographic projection (decimal degrees).

Record Layouts

Type Field References

P=Point
L=Simple Line (linestring)
S=Line (spaghetti) **D**=SE_DOUBLE_TYPE
A=Area
C=SE_STRING_TYPE
I=SE_INTEGER_TYPE

Highway:

Item Name	Type	Width	Dec.	Description
BUS_FID	S	-		Spatial information storage
SEGMENT_ID	I	10		Unique NorAm record number
PREFIX	C	2		Street prefix
NAME	C	50		Street name
TYPE	C	6		Street type
SUFFIX	C	2		Feature direction suffix
FCC	C	3		Feature Class Code
ACC	C	1		Artery Classification Code
SHIELD	C	2		"T", "I", "U", "S", "A", or blank
HWY_NUM	C	5		#, # with letter, or blank
SEG_LEN	D	8	4	Segment length in miles
SPEED	I	3		Speed in miles per hour
ONE_WAY	C	2		One-way indicator
F_ZLEV	I	2		From node elevation
T_ZLEV	I	2		To node elevation
FT_COST	D	10	5	From-To impedance in minutes
TF_COST	D	10	5	To-From impedance in minutes
FT_DIR	C	2		From-To direction
TF_DIR	C	2		To-From direction
NAME_FLAG	I	3		Name metadata flag

Street:

Item Name	Type	Width	Dec.	Description
BUS_FID	L	-		Spatial information storage
DYNAMAP_ID	I	10		Unique NorAm record number
L_F_ADD	C	11		Left from address
L_T_ADD	C	11		Left to address
R_F_ADD	C	11		Right from address
R_T_ADD	C	11		Right to address
PREFIX	C	2		Street prefix
PRETYPE	C	10		Street prefix value type
NAME	C	50		Street name
TYPE	C	6		Street type
SUFFIX	C	2		Feature direction suffix
FCC	C	3		Feature Class Code
POSTAL_L	C	5		Postal code (ZIP or FSA) left
POSTAL_R	C	5		Postal code (ZIP or FSA) right
ACC	C	1		Artery Classification Code
NAME_TYPE	C	1		"R" (always PRN for this product)
SHIELD	C	2		"T", "I", "U", "S", "A", or blank
HWY_NUM	C	5		#, # with letter, or blank
SEG_LEN	D	8	4	Segment length in miles
SPEED	I	3		Speed in miles per hour
ONE_WAY	C	2		One-way indicator

Item Name	Type	Width	Dec.	Description
F_ZLEV	I	2		From node elevation
T_ZLEV	I	2		To node elevation
FT_COST	D	10	6	From-To impedance in minutes
TF_COST	D	10	6	To-From impedance in minutes
FT_DIR	C	2		From-To direction
TF_DIR	C	2		To-From direction
NAME_FLAG	I	3		Name metadata flag
STATUS	C	1		Status value
ALT1_PREFIX	C	2		Street prefix
ALT1_PRETYPE	C	10		Street prefix value type
ALT1_NAME	C	50		Street name
ALT1_TYPE	C	6		Street type
ALT1_SUFFIX	C	2		Feature direction suffix
ALT1_NAME_TYPE	C	1		"G" or blank
ALT1_SHIELD	C	2		"T", "I", "U", "S", "A", or blank
ALT1_HWY_NUM	C	5		#, # with letter, or blank
ALT1_FT_DIR	C	2		From_To direction
ALT1_TF_DIR	C	2		To_From direction
ALT1_NAME_FLAG	I	3		Name metadata flag
ALT2_PREFIX	C	2		Street prefix
ALT2_PRETYPE	C	1		Street prefix value type
ALT2_NAME	C	40		Street name
ALT2_TYPE	C	6		Street type
ALT2_SUFFIX	C	2		Feature direction suffix
ALT2_NAME_TYPE	C	1		"G" or blank
ALT2_SHIELD	C	2		"T", "I", "U", "S", "A", or blank
ALT2_HWY_NUM	C	5		#, # with letter, or blank
ALT2_FT_DIR	C	2		From_To direction
ALT2_TF_DIR	C	2		To_From direction
ALT2_NAME_FLAG	I	3		Name metadata flag
ALT3_PREFIX	C	2		Street prefix
ALT3_PRETYPE	C	1		Street prefix value type
ALT3_NAME	C	40		Street name
ALT3_TYPE	C	6		Street type
ALT3_SUFFIX	C	2		Feature direction suffix
ALT3_NAME_TYPE	C	1		"G" or blank
ALT3_SHIELD	C	2		"T", "I", "U", "S", "A", or blank
ALT3_HWY_NUM	C	5		#, # with letter, or blank
ALT3_FT_DIR	C	2		From_To direction
ALT3_TF_DIR	C	2		To_From direction
ALT3_NAME_FLAG	I	3		Name metadata flag
ALT4_PREFIX	C	2		Street prefix
ALT4_PRETYPE	C	1		Street prefix value type
ALT4_NAME	C	40		Street name
ALT4_TYPE	C	6		Street type
ALT4_SUFFIX	C	2		Feature direction suffix
ALT4_NAME_TYPE	C	1		"G" or blank
ALT4_SHIELD	C	2		"T", "I", "U", "S", "A", or blank
ALT4_HWY_NUM	C	5		#, # with letter, or blank
ALT4_FT_DIR	C	2		From_To direction
ALT4_TF_DIR	C	2		To_From direction
ALT4_NAME_FLAG	I	3		Name metadata flag
ALT5_PREFIX	C	2		Street prefix
ALT5_PRETYPE	C	1		Street prefix value type
ALT5_NAME	C	50		Street name

Item Name	Type	Width	Dec.	Description
ALT5_TYPE	C	6		Street type
ALT5_SUFFIX	C	2		Feature direction suffix
ALT5_NAME_TYPE	C	1		“G” or blank
ALT5_SHIELD	C	2		“T”, “I”, “U”, “S”, “A”, or blank
ALT5_HWY_NUM	C	5		#, # with letter, or blank
ALT5_FT_DIR	C	2		From_To direction
ALT5_TF_DIR	C	2		To_From direction
ALT5_NAME_FLAG	I	3		Name metadata flag
STATE00_L	C	2		2000 state FIPS left
STATE00_R	C	2		2000 state FIPS right
COUNTY00_L	C	3		2000 county FIPS left
COUNTY00_R	C	3		2000 county FIPS right
MCD00_L	C	5		2000 FIPS MCD/CCD left
MCD00_R	C	5		2000 FIPS MCD/CCD right
PLACE00_L	C	5		2000 FIPS Place left
PLACE00_R	C	5		2000 FIPS Place right
RDWAY_ID	I			LRS unique identifier

Note: *RDWAY_ID* is the DelDOT LRS attribute that TANA will include within the otherwise standard Dynamap/Transportation *Streets* layer attribute table.

LRS (A table which relates to street features; not a separate vector layer):

Item Name	Type	Width	Dec.	Description
<i>RDWAY_ID</i>	I			LRS unique identifier
<i>COUNTY</i>	C			County name
<i>MAINT_RD</i>	I			State road number
<i>BEG_MP</i>	I			Beginning segment measure within the overall route measurement
<i>END_MP</i>	I			Ending segment measure within the overall route measurement

Note: TANA will include the DelDOT LRS attribution, as provided, within the deliverable product.

Toll (A table which relates to street features; not a separate vector layer):

Item Name	Type	Width	Dec.	Description
DYNAMAP_ID	I	10		Unique NorAm record number
TOLL	C	1		“Y” = toll

Railroad:

Item Name	Type	Width	Dec.	Description
BUS_FID	L	-		Spatial information storage
DYNAMAP_ID	I	10		Unique NorAm record number
NAME	C	40		Railroad name
FCC	C	3		Feature Class Code

Linear Water:

Item Name	Type	Width	Dec.	Description
BUS_FID	L	-		Spatial information storage
DYNAMAP_ID	I	10		Unique NorAm record number
NAME	C	40		Water feature name
FCC	C	3		Feature Class Code

Turn Restriction:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
ANGLE	D	12	3	Turn angle from From_ID to To_ID
FROM_ID	I	10		Dynamap ID for first segment
TO_ID	I	10		Dynamap ID for second segment
COST	D	8	5	"-1" if turn is restricted
MAN_ID	I	10		Unique Permanent Maneuver ID
LONGITUDE	D	11	6	Longitude
LATITUDE	D	10	6	Latitude

Maneuver:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
MAN_ID	I	10		Unique Permanent Maneuver ID
SEQUENCE	I	1		Sequence # of maneuver record
MAN_TYPE	C	1		Maneuver Type
FROM_ID	I	10		From Dynamap_ID
FROMID_END	C	1		"T" or "F" indicating end of From_ID
ANGLE	D	12	3	Turn angle from From_ID to To_ID
COST	D	8	5	Restricted = "-1"
HOO	C	100		Hours of Operation (GDF)
TO_ID	I	10		To/Destination Dynamap_ID
VIA1	I	10		Via Dynamap_ID 1
VIA2	I	10		Via Dynamap_ID 2
VIA3	I	10		Via Dynamap_ID 3
VIA4	I	10		Via Dynamap_ID 4
VIA5	I	10		Via Dynamap_ID 5
LONGITUDE	D	11	6	Longitude
LATITUDE	D	10	6	Latitude

Placeholder:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
DYNAMAP_ID	I	10		Unique NorAm record number
FR_ADD	C	11		From address
TO_ADD	C	11		To address
PREFIX	C	2		Street prefix
NAME	C	40		Street name
TYPE	C	6		Street type
SUFFIX	C	2		Feature direction suffix
FCC	C	3		Feature Class Code
POSTAL	C	5		Postal code (ZIP or FSA)

Exits:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
EXIT_ID	I	10		Unique NorAm record number
FROM_NAME	C	40		Highway name exit leaves
EXIT_NUM	C	10		Number(s) if applicable
TO_NAME	C	40		Highway/street name exit accesses

Recreation Area:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Transportation Terminal:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Major Retail Center:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Institution:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Postal Code Inventory:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
POSTAL	C	5		5 digit (ZIP) or 3 digit (FSA) postal code
ENC_POSTAL	C	5		Enclosing ZIP or FSA
STATE	C	2		State 2-letter abbreviation
STFIPS	C	2		State FIPS
NAME	C	28		ZIP or FSA PO name
NAME_TYPE	C	30		Name Type
COUNTY1	C	20		Full County name 1
CTY1FIPS	C	3		County 1 FIPS
COUNTY2	C	20		Full County name 2
CTY2FIPS	C	3		County 2 FIPS
COUNTY3	C	20		Full County name 3
CTY3FIPS	C	3		County 3 FIPS
AREA_MI	D	9	3	Area in square miles
LATITUDE	D	10	6	Latitude
LONGITUDE	D	11	6	Longitude
RPO_FLAG	C	1		RPO Flag ("R" or blank)
PC_TYPE	C	20		Postal code type
PT_LOC	C	1		Point Location ("A" for actual)
NAME1	C	28		Alternate postal name 1
NAME_TYPE1	C	30		Alternate postal name type 1
NAME2	C	28		etc.
NAME_TYPE2	C	30		
NAME3	C	28		
NAME_TYPE3	C	30		
NAME4	C	28		

NAME_TYPE4	C	30		
NAME5	C	28		
NAME_TYPE5	C	30		

County/CD Inventory:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Full County or CD name
COUNTY_KEY	C	5		State FIPS code and County FIPS code

Populated Locality Inventory:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Cleaned name
PLACE_KEY	C	10		State, County FIPS, Place code
CAPITAL	C	1		"Y" = State Capital (+DC & PR)
POPULATION	I	10		Population

State/Province Inventory:

Item Name	Type	Width	Dec.	Description
BUS_FID	P	-		Spatial information storage
NAME	C	40		Full State or Province name
STATE	C	2		2-digit alpha State or Province abbreviation
STATE_KEY	C	2		State or Province FIPS code

Airport:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Airport name
FCC	C	3		Feature Class Code
LOC_ID	C	4		3 or 4 character identifier
USERS	C	2		public (PU); private (PR)
OWNER	C	29		
ELEVATION	C	5		
CONGESTION	C	1		congestion level
SERVICE	C	2		service level
LG_CERT_AC	C	10		1992 large certified air carrier enplaning
COMMUTER	C	7		1992 commuter enplaning
AIR_TAXI	C	7		1992 air taxi enplaning
FOR_ENP	C	8		1992 foreign enplaning
IN_TRANSIT	C	10		1992 in-transit enplaning
HUB_SIZE	C	1		based on % of national enplanements
TOWER_TYPE	C	1		tower type code

Large Area Landmark:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Park:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Major Water:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Water Polygon:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Landmark name
FCC	C	3		Feature Class Code

Postal Code Boundary:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		ZIP or FSA name
ST_FIPS	C	2		State FIPS code
CTY_FIPS	C	3		County FIPS code
POSTAL	C	5		5 digit (ZIP) or 3 digit (FSA) postal

County/CD Boundary:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Full County or CD name
COUNTY_KEY	C	5		State FIPS code and County FIPS code

Place Boundary:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Full Place name
PLACE_KEY	C	10		State, County FIPS, Place code

State/Province Boundary:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	40		Full State or Province name
STATE	C	2		2-digit alpha State or Province
STATE_KEY	C	2		State or Province FIPS code

Nation Boundary:

Item Name	Type	Width	Dec.	Description
BUS_FID	A	-		Spatial information storage
NAME	C	50		Full Nation name
NATION	C	2		2-digit alpha Nation abb.