Road Inventory Data Dictionary

Field Name	Alias	Type	Precn.	Scale	Length	Edit	Null	Req.	Domain Fixed
OBJECTID	OBJECTID	OID	0	0	4	No	No	Yes	No
Shape	Shape	Geometry	0	0	0	Yes	Yes	Yes	No
RoadSegment_ID	RoadSegment_ID	Integer	0	0	4	Yes	Yes	No	No
FromMeasure	FromMeasure	Double	0	0	8	Yes	Yes	No	No
ToMeasure	ToMeasure	Double	0	0	8	Yes	Yes	No	No
AssignedLength	AssignedLength	Double	0	0	8	Yes	Yes	No	No
AssignedLengthSource	AssignedLengthSource	Small Integer	0	0	2	Yes	Yes	No	No
StreetList_ID	StreetList_ID	Integer	0	0	4	Yes	Yes	No	No
StreetName	StreetName	String	0	0	255	Yes	Yes	No	No
City	City	Small Integer	0	0	2	Yes	Yes	No	No
County	County	String	0	0	255	Yes	Yes	No	No
MunicipalStatus	MunicipalStatus	Small Integer	0	0	2	Yes	Yes	No	No
FromEndType	FromEndType	Small Integer	0	0	2	Yes	Yes	No	No
FromStreetName	FromStreetName	String	0	0	255	Yes	Yes	No	No
FromCity	FromCity	Small Integer	0	0	2	Yes	Yes	No	No
FromState	FromState	Small Integer	0	0	2	Yes	Yes	No	No
ToEndType	ToEndType	Small Integer	0	0	2	Yes	Yes	No	No
ToStreetName	ToStreetName	String	0	0	255	Yes	Yes	No	No
ToCity	ToCity	Small Integer	0	0	2	Yes	Yes	No	No
ToState	ToState	Small Integer	0	0	2	Yes	Yes	No	No
MileageCounted	MileageCounted	Small Integer	0	0	2	Yes	Yes	No	No
RouteKey	RouteKey	String	0	0	20	Yes	Yes	No	No
RouteFrom	RouteFrom	Double	0	0	8	Yes	Yes	No	No
RouteTo	RouteTo	Double	0	0	8	Yes	Yes	No	No
RouteSystem	RouteSystem	String	0	0	255	Yes	Yes	No	No
RouteNumber	RouteNumber	String	0	0	10	Yes	Yes	No	No
SubRoute	SubRoute	String	0	0	10	Yes	Yes	No	No
RouteDirection	RouteDirection	String	0	0	255	Yes	Yes	No	No
RouteType	RouteType	Small Integer	0	0	2	Yes	Yes	No	No
RouteQualifier	RouteQualifier	Small Integer	0	0	2	Yes	Yes	No	No
RPA	RPA	String	0	0	20	Yes	Yes	No	No
MPO	MPO	String	0	0	35	Yes	Yes	No	No
MassHighwayDistrict	MassHighwayDistrict	Small Integer	0	0	2	Yes	Yes	No	No
UrbanType	UrbanType	Small Integer	0	0	2	Yes	Yes	No	No
UrbanizedArea	UrbanizedArea	String	0	0	255	Yes	Yes	No	No
FunctionalClassification	FunctionalClassification	Small Integer	0	0	2	Yes	Yes	No	No

Jurisdiction	Jurisdiction	String	0	0	255	Yes	Yes	No	No
TruckRoute	TruckRoute	Small Integer	0	0	2	Yes	Yes	No	No
NHSStatus	NHSStatus	Small Integer	0	0	2	Yes	Yes	No	No
FederalAidRouteNumber	FederalAidRouteNumber	String	0	0	10	Yes	Yes	No	No
FacilityType	FacilityType	Small Integer	0	0	2	Yes	Yes	No	No
StreetOperation	StreetOperation	Small Integer	0	0	2	Yes	Yes	No	No
AccessControl	AccessControl	Small Integer	0	0	2	Yes	Yes	No	No
TollRoad	TollRoad	Small Integer	0	0	2	Yes	Yes	No	No
NumberOfPeakHourLanes	NumberOfPeakHourLanes	Small Integer	0	0	2	Yes	Yes	No	No
RightSidewalkWidth	RightSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightShoulderType	RightShoulderType	Small Integer	0	0	2	Yes	Yes	No	No
RightShoulderWidth	RightShoulderWidth	Small Integer	0	0	2	Yes	Yes	No	No
MedianType	MedianType	Small Integer	0	0	2	Yes	Yes	No	No
MedianWidth	MedianWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftSidewalkWidth	LeftSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftShoulderType	LeftShoulderType	Small Integer	0	0	2	Yes	Yes	No	No
LeftShoulderWidth	LeftShoulderWidth	Small Integer	0	0	2	Yes	Yes	No	No
SurfaceType	SurfaceType	Small Integer	0	0	2	Yes	Yes	No	No
SurfaceWidth	SurfaceWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightOfWayWidth	RightOfWayWidth	Small Integer	0	0	2	Yes	Yes	No	No
NumberOfTravelLanes	NumberOfTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
OppositeNumberofTravelLanes	OppositeNumberofTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
Curbs	Curbs	Small Integer	0	0	2	Yes	Yes	No	No
Terrain	Terrain	Small Integer	0	0	2	Yes	Yes	No	No
SpeedLimit	SpeedLimit	Small Integer	0	0	2	Yes	Yes	No	No
StructuralCondition	StructuralCondition	Small Integer	0	0	2	Yes	Yes	No	No
ADT	ADT	Integer	0	0	4	Yes	Yes	No	No
ADTStationNumber	ADTStationNumber	Integer	0	0	4	Yes	Yes	No	No
ADTDerivation	ADTDerivation	Small Integer	0	0	2	Yes	Yes	No	No
ADTYear	ADTYear	Small Integer	0	0	2	Yes	Yes	No	No
IRI	IRI	Small Integer	0	0	2	Yes	Yes	No	No
IRIYear	IRIYear	Small Integer	0	0	2	Yes	Yes	No	No

IRIStatus	IRIStatus	Small Integer	0	0	2	Yes	Yes	No	No
PSR	PSR	Small Integer	0	0	2	Yes	Yes	No	No
PSRYear	PSRYear	Small Integer	0	0	2	Yes	Yes	No	No
HPMSCode	HPMSCode	Small Integer	0	0	2	Yes	Yes	No	No
HPMSSample_ID	HPMSSample_ID	String	0	0	12	Yes	Yes	No	No
AddedRoadType	AddedRoadType	Small Integer	0	0	2	Yes	Yes	No	No
DateActive	DateActive	Date	0	0	8	Yes	Yes	No	No
LifeCycleStatus	LifeCycleStatus	Small Integer	0	0	2	Yes	Yes	No	No
RoadInventory_ID	RoadInventory_ID	Integer	0	0	4	Yes	Yes	No	No

Field Descriptions

ObjectID: ArcGIS internal unique identifier

Shape: ArcGIS geometry field

RoadSegment_ID: The unique identifier of the *RoadInventory* file

FromMeasure: The measured length along the specified *RoadSegment* feature where this *RoadInventory* segment starts

ToMeasure: The measured length along the *RoadSegment* feature where this *RoadInventory* segment ends

AssignedLength: Segment length in miles

AssignedLengthSource: Defines the source of the assigned length value
     0 = Shape length
     1 = Odometer
     2 = Odometer prorated from CSN pair (60000-rule) during migration from coverage model

StreetList_ID: The identifier of the Street the segment lies on

StreetName: The name of the street the segment lies on

City
     1= Abington & 351 = Yarmouth

County
     A = Barnstable
     B = Berkshire
     C = Bristol
     D = Dukes
     E = Essex
     F = Franklin
     G = Hampden
     H = Hampshire
     I = Middlesex
     J = Nantucket
     K = Norfolk
     L = Plymouth
     M = Suffolk
     N = Worcester

MunicipalStatus
     1 = City
     2 = Town

FromEndType: Defines the start of the street the segment lies on
     1 = Cross-street
     2 = Dead end
     3 = Cul-de-sac
     4 = Private property
     5 = Town line
     6 = State line

FromStreetName: The cross-street where the street starts (when the street starts at a cross-street)

FromCity: The city where the street starts when the street starts at a city boundary
     1= Abington & 351 = Yarmouth

FromState: The state where the street starts when the street starts at a state boundary
    1 = Connecticut
    2 = New Hampshire
    3 = New York
    4 = Rhode Island
    5 = Vermont

ToEndType Defines the end of the street the segment lies on
    1 = Cross-street
    2 = Dead end
    3 = Cul-de-sac
    4 = Private property
    5 = Town line
    6 = State line

ToStreetName: The cross-street where the street ends (when the street ends at a cross-street)

ToCity: The city where the street ends when the street ends at a city boundary
    1= Abington & 351 = Yarmouth

ToState: The state where the street ends when the street ends at a state boundary
    1 = Connecticut
    2 = New Hampshire
    3 = New York
    4 = Rhode Island
    5 = Vermont

MileageCounted: Describes whether the segments length is counted towards the official statewide road centerline mileage
    1 = Yes
    0 = No
    Note - See Facility Type

RouteKey: The primary state numbered route or designated non-numbered route on which this segment lies; when more than one route traverse a segment, the *highest order* (Interstate > US Highway > State Route), *lowest number* route is primary; non-numbered routes are used internally by Planning for pavement data collections

RouteFrom: The measured length along the specified *Route* where this *RoadInventory* segment starts

RouteTo: The measured length along the specified *Route* where this *RoadInventory* segment ends

RouteSystem
    I = Interstate
    US = US Highway
    SR = State Route
    0 = Not a numbered route

RouteNumber: The official route number designation; need not be exclusively numeric (*146A*, for example)

SubRoute: Optional designation to distinguish alternate sections of the same numbered route

RouteDirection
    NB = North
    EB = East
    SB = South
    WB = West

RouteType
    0 = Non-numbered
    1 = Numbered-Primary (NB/EB)
    2 = Numbered-Opposing (SB/WB)

RouteQualifier: (Reserved for future use -- not implemented at this time)
    0 = No Qualifier or Not Signed or Not Applicable
    1 = Alternate
    2 = Business Route
    3 = Bypass
    4 = Spur
    5 = Loop
    6 = Proposed
    7 = Temporary
    8 = Truck Route
    9 = None of the Above

RPA: Regional Planning Agency
    BRPC =Berkshire Regional Planning Commission
    CCC = Cape Cod Commission
    CMRPC = Central Massachusetts Regional Planning Commission
    FRCOG = Franklin Regional Council of Governments
    MAPC = Metropolitan Area Planning Council
    MRPC = Montachusett Regional Planning Commission
    MVC = Marthas Vineyard Commission
    MVPC = Merrimack Valley Planning Commission
    NMCOG = Northern Middlesex Council of Governments
    NPEDC = Nantucket Planning and Economic Development Commission
    OCPC = Old Colony Planning Council
    PVPC = Pioneer Valley Planning Commission
    SRPEDD = Southeastern Regional Planning and Economic Development District

MPO: Metropolitan Planning Organization
    Berkshire
    Boston Region
    Cape Cod
    Central Massachusetts
    Franklin
    Martha's Vineyard
    Merrimack Valley
    Montachusett
    Nantucket
    Northern Middlesex
    Old Colony
    Pioneer Valley
    Southeastern Massachusetts

MassHighwayDistrict
    MinValue: 1
    MaxValue: 5

UrbanType
    1 = Urbanized area – Densely settled territory that contains 50,000 people or more
    2 = Urban cluster – Densely settled territory that contains at least 5,000 people but fewer than 50,000 people
    5 = Rural

UrbanizedArea
    0 = RURAL
    7 = Boston (MA-NH-RI)
    26 = Providence (RI-MA)
    43 = Springfield (MA-CT)
    76 = Worcester (MA-CT)
    127 = New Bedford
    189 = Leominster-Fitchburg
    199 = Pittsfield
    246 = Nashua (NH-MA)
    394 = Barnstable Town

A = Amherst
B = Athol
C = Great Barrington
D = Greenfield
E = Lee
F = Nantucket
G = North Adams (MA-VT)
I = Pepperell
K = Stafford (CT-MA)
L = Vineyard Haven
M = Ware
O = Winchendon (MA-NH)

FunctionalClassification: *Note: use urban/rural designation to interpret functional classification*
0 = Local
1 = Interstate
2 = Principal arterial
3 = Rural minor arterial or urban principal arterial
5 = Urban minor arterial or rural major collector
6 = Urban collector or rural minor collector

Jurisdiction
1 = Massachusetts Highway Department
2 = City or Town accepted road
3 = Department of Conservation and Recreation
4 = Massachusetts Turnpike Authority
5 = Massachusetts Port Authority
6 = State Park or Forest
7 = State Institutional
8 = Federal Park or Forest
9 = County Institutional
0 = Unaccepted by city or town
B = State college or university
C = US Department of Defense
D = US Army Corps of Engineers
E = Federal Institutional
F = Other Federal
G = Federal Bureau of Indian Affairs
H = Private

Truck Route
0 = Not a parkway - not on a designated truck route
1 = Designated truck route under Federal Authority in 23 CFR 658
    Available to STAA vehicles (Twin 28' Semi-trailer-trailer and 48' Semi-trailer combinations)
2 = Designated truck route ONLY under State Authority.
    Fully available to both types of STAA vehicles described above
3 = Department of Conservation and Recreation Parkway – No trucks allowed

NHSStatus: National Highway System Status
0 = Not on NHS
1 = NHS - Interstate
2 = NHS - Strategic Defense Highway System (STRAHNET)
3 = NHS - STRAHNET Connector
4 = NHS - Other - One-way pair
5 = NHS - Other - Truck route exclusion
6 = NHS - Major Airport
7 = NHS - Major Port Facility
8 = NHS - Major Amtrak Station
9 = NHS - Major Rail/Truck terminal
10 = NHS - Major Intercity Bus Terminal
11 = NHS - Major Public Transit or Multi-Modal Passenger Terminal
12 = NHS - Major Pipeline Terminal

13 = NHS - Major Ferry Terminal
14 = NHS - Other (not in above categories)

FederalAidRouteNumber: Maintained for historical purposes

FacilityType
1 = Mainline roadway*
2 = Bridge*
3 = Tunnel*
4 = Doubledeck*
5 = Rotary*
6 = Causeway*
7 = Simple ramp
8 = Ramp - NB/EB
9 = Ramp - SB/WB
10 = Collector - Distributor
11 = Simple Ramp - Tunnel
12 = Bicycle
*Road types included in official statewide road centerline mileage

StreetOperation
1 = One-way traffic
2 = Two-way traffic

AccessControl
0 = No control
1 = Full control
2 = Partial control

TollRoad
0 = Not a toll road
1 = A toll road

NumberOfPeakHourLanes: Number of lanes open for vehicles during Peak travel times including breakdown and high-occupancy vehicle lanes

RightSidewalkWidth: Width of the sidewalk in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

RightShoulderType: Type of shoulder on the right side of the road traveling in the primary (NB/EB) direction of travel
0 = No Shoulder
1 = Stable - Unruttable compacted subgrade
2 = Unstable shoulder
3 = Hardened bituminous mix or penetration
4 = Combination shoulder

RightShoulderWidth: Width of shoulder in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

MedianType: Type of median on divided roadways
0 = None
1 = Curbed
2 = Positive barrier
3 = Unprotected

MedianWidth: Width of median in feet on divided roadways
MinValue: 1
MaxValue: 999

LeftSidewalkWidth: Width of the sidewalk in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; on divided roadways, this will fall on the opposing direction (see illustration)

LeftShoulderType: Type of shoulder on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

        0 = No Shoulder
        1 = Stable - Unruttable compacted subgrade
        2 = Unstable shoulder
        3 = Hardened bituminous mix or penetration
        4 = Combination shoulder

LeftShoulderWidth: Width of shoulder in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

SurfaceType

        1 = Unimproved, graded earth, or soil surface road
        2 = Gravel or stone road
        3 = Brick road
        4 = Block road
        5 = Surface-treated road
        6 = Bituminous concrete road
        7 = Portland cement concrete road
        8 = Composite road; flexible over rigid
        9 = Composite road; rigid over flexible or rigid over rigid ("white topping")

SurfaceWidth: Surface width in feet; measurement of traveled way, excluding shoulders/auxiliary lanes

RightOfWayWidth: Right-of-way width in feet

NumberOfTravelLanes: Number of travel lanes (for undivided roadways, number of lanes in both directions of travel, for divided roadways, number of lanes on the given segment only)

        MinValue: 1
        MaxValue: 6

OppositeNumberOfTravelLanes: Number of travel lanes in the opposite direction of a divided roadway

        MinValue: 1
        MaxValue: 6

Curbs

        0 = None
        1 = Left side only
        2 = Right side only
        3 = Both sides
        4 = Along median only
        5 = All curbs (divided highway)

Terrain

        1 = Level
        2 = Rolling
        3 = Mountainous

SpeedLimit

        MinValue: 5
        MaxValue: 65

StructuralCondition

        1 = Good
        2 = Fair
        3 = Deficient
        4 = Intolerable

ADT: Average Annual Daily Traffic

ADTStationNumber: ADT count station location number; used to reference Traffic Data Collections counting station number

ADTDerivation
>> 0 = Not applicable
>> 1 = Derived from counts collected on or adjacent to the section during the current year
>> 2 = Derived from factoring counts from the previous year count-base AADT that is less than three years old
>> 3 = Derived from count data that is three or more years old
>> 4 = Derived from an estimate
>> 5 = Working code for principal arterial counting program

ADTYear: Year of ADT collection

IRI: Pavement Roughness; value reflects calibrated value in inches of roughness per mile

IRIYear: Year of IRI collection

IRIStatus
>> 1 = IRI data collected
>> 2 = No IRI data collected due to speed
>> 3 = No IRI data collected due to construction
>> 4 = No data collected due to bridge deck

PSR: Pavement Serviceability Rating

PSRYear: Year of PSR collection

HPMSCode
>> 0 = Not an HPMS section nor on a road that has an HPMS section
>> 1 = Not an HPMS section but is on a road that has an HPMS section
>> 2 = An HPMS section

HPMSSample_ID: The HPMS Sample identifier for sections lying on a designated HPMS sample

AddedRoadType: Description of roads added to the GIS that are 250 feet or more and serve a specific land use
>> 0 = Default/Not applicable
>> 1 = Public road (but not highway ramp)
>> 3 = Highway ramp
>> 4 = Road appears in 1:5000-scale centerline file, but not in DLG or orthophotos
>> 5 = Research park, industrial park, office park, shopping mall or center, condominium complex or subdivision
>> 6 = Airport passenger or cargo area, port access road, intermodal terminal access road, or major truck terminal
>> 7 = Treatment plant, electrical plant, petroleum depot, town or state facility, or other water, sewer, power, or communication facility
>> 8 = State park or other recreational area
>> 9 = Cul-de-sac
>> 10 = Other private road
>> 11 = Rest area

DateActive: The date the road became active, or, if not known, the date it was entered into the system; all roads active when this field was implemented were assigned a date 1/1/2004

LifeCycleStatus
>> 1 = Proposed
>> 2 = In Construction
>> 3 = Active

RoadInventory_ID: A sequential identifier assigned to each *RoadInventory segment*