

# Access to Municipal DataWorks

## Introduction

Hunter GIS provides a series of gateways to Ontario Good Roads Association Municipal DataWorks (MDW) data, enabling access through browser-based or desktop solutions. Based on MDW's Web Services, these solutions enable users to view and update asset information in the field or office. There is no need to synchronize a subset of data, as these solutions provide real-time access to the centralized MDW database.

## Web Applications:

Add access to the MDW database to your existing web applications using Autodesk Infrastructure Map Server, Esri ArcGIS Server 10.x or MapGuide Open Source.

The screenshot shows the Hunter GIS RAMS desktop application. On the left, there are search and analysis tools including 'Map Asset Search', 'MDW Asset Search', 'Selection Set', and 'Buffer Analysis'. The central map view displays a street network with a highlighted road section. The right-hand panel shows detailed information for a selected road section, including location, identification, dimensions, and surroundings.

Select	Zoom	View DB	View MDW	Map Key	Asset ID
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RCOL0010	RCOL0010
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RCOL0020	RCOL0020

Identification	
ID	RCOL0010
Name	COLLEGE LINE
GISID	
Type	RD - Road Section
Material	LCB - Low Class Bituminous
Status	ACTV - Active

Dimensions	
Count	1 000 Items
Desired Right of Way Width	20 400 m
Length	2 060 km
Median Width	0 000 m
Platform Width	7 500 m
Right of Way Width	0 000 m
Shoulder Width	0 500 m
Surface Width	6 500 m

Surroundings	
Drainage Condition	OD - Open Ditch
Roadside Environment	R - Rural
Shoulder Type	GST - Gravel or Stone
Terrain and Soil Type	NF - Non-Rocky, Flat

Road Section	
Average Operating Speed	80
Boundary Road	Not a Boundary Road

Source: Hunter GIS RAMS ( Esri ArcGIS Server).

The MDW database is also accessible through the Mobile Viewer enabling users to query, display and update infrastructure asset data while in field.

The screenshot shows the Hunter GIS RAMS Mobile Viewer application on a Google NEXUS 7 tablet. The interface is designed for mobile use, featuring a map view of a street network with a selected road section. A data panel on the right displays asset details, and a bottom navigation bar is visible.

Property	Value
ABBR_STREE	PRESSEY LINE
FULL_STREE	PRESSEY LINE
MNS	4
OBJECTID	414
R_MUNICIPA	
STREET_NAME	Pressey
STREET_T_1	Line
Set_Num1	RSPR0020
Shape_Leng	428.050861
len	0.85586
shape	Polyline
shape.len	428.050861

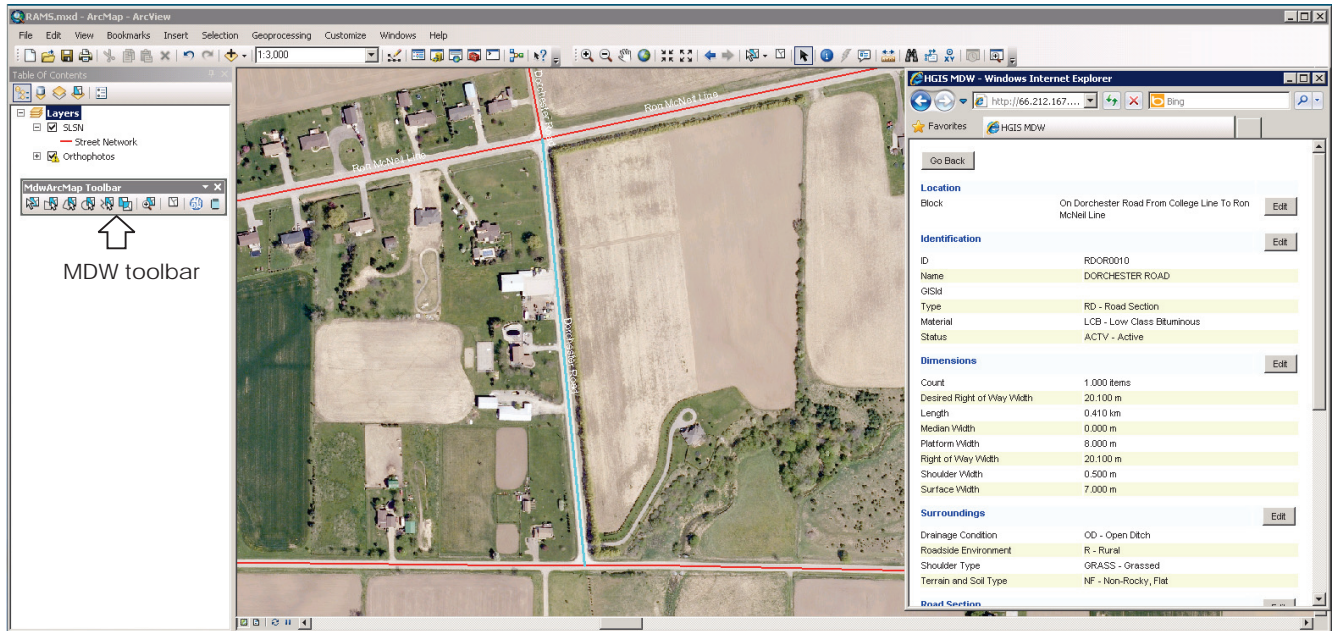
Road Section	
Average Speed	
Operating Speed	
Boundary Road	Not a Boundary Road
Classification	
Design Class	
Existing Road Class	Local Residential
Frost Sensitive	
Load Restrictions	Spring Restriction, Type "A" (Half Load)
Maintenance Class	4
Median Type	
Number of Lanes	2
Old Section Number	
Pavement Thickness Required	
Flowing Priority	
Public Transportation	
Route ID	
Special Designation	
Speed Limit	50
Survey Status	
Traffic Status	Traffic moves in both directions

Source: Hunter GIS RAMS Mobile Viewer (Esri ArcGIS Server) on a Google NEXUS 7 tablet.

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## MDW Add-in for Esri ArcGIS Desktop:

This easily installed add-in enables viewing and updating of your Municipal DataWorks database within the Esri environment.



## MDW Application for Autodesk AutoCAD Map3D:

Using AutoCAD Map 3D, users can select an asset on the map to query, display and update the asset in MDW. The duplicate function enables the user to split an existing asset in two without the tedium of re-entering all of the attributes for the new asset, a time saver when updating linear assets such as roads, sewerlines and watermains.

