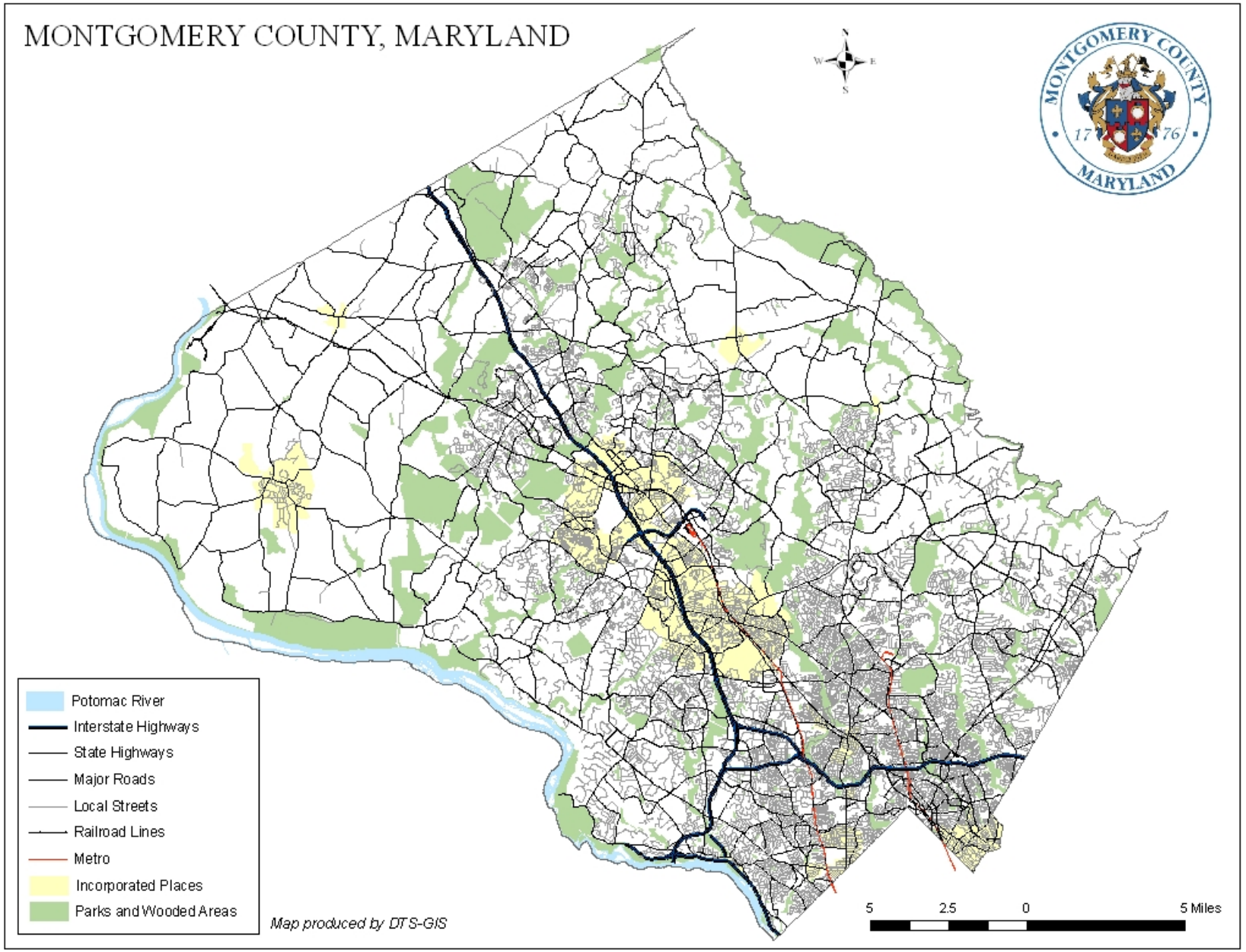
WebGIS-Based DOT Storm Operations Map Tracking System

Apollo Teng, *DTS GIS Manager*
Reza Zarif, *DOT Highway Services IT Manager*
Montgomery County, Maryland

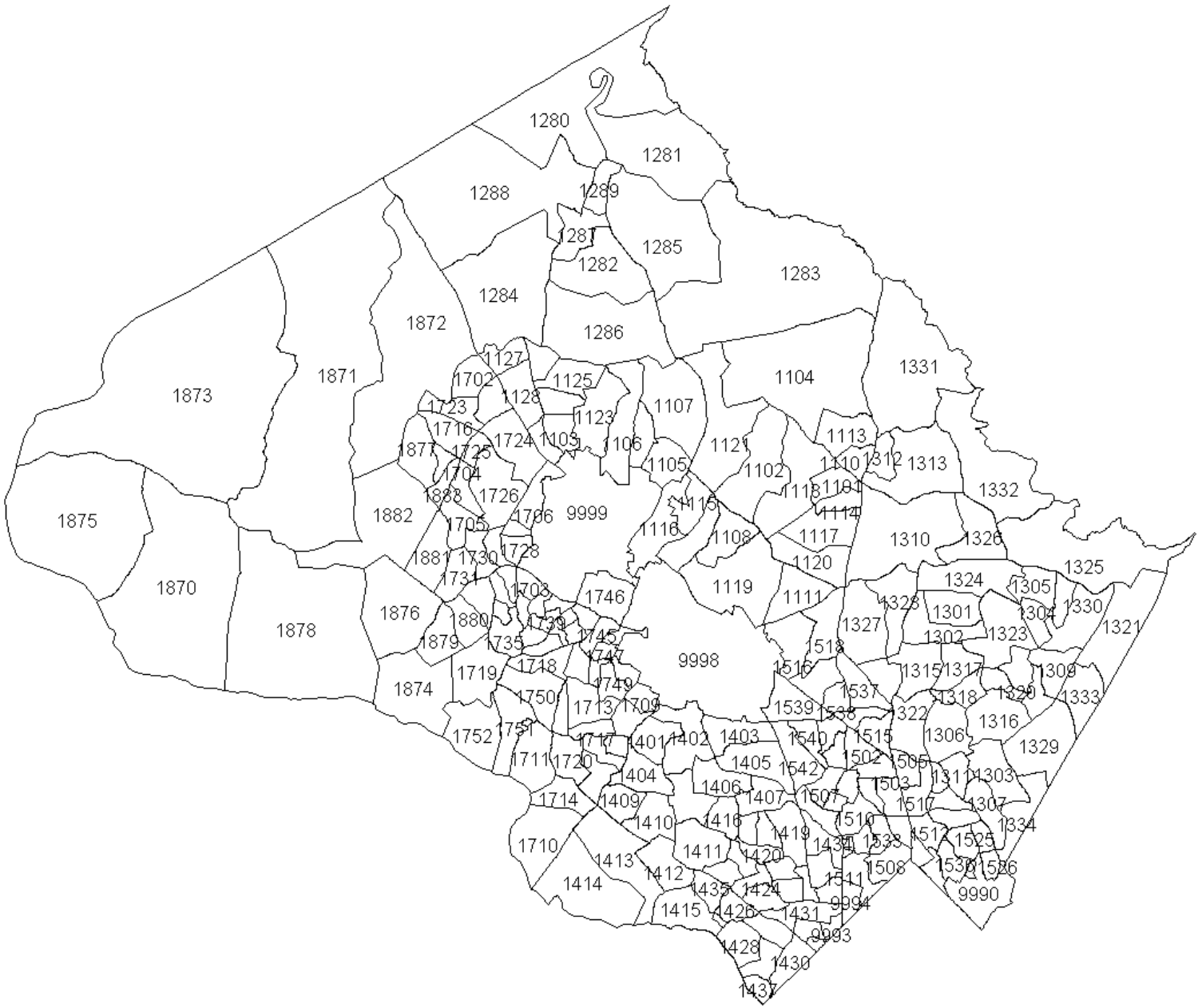
Roadways in Montgomery County



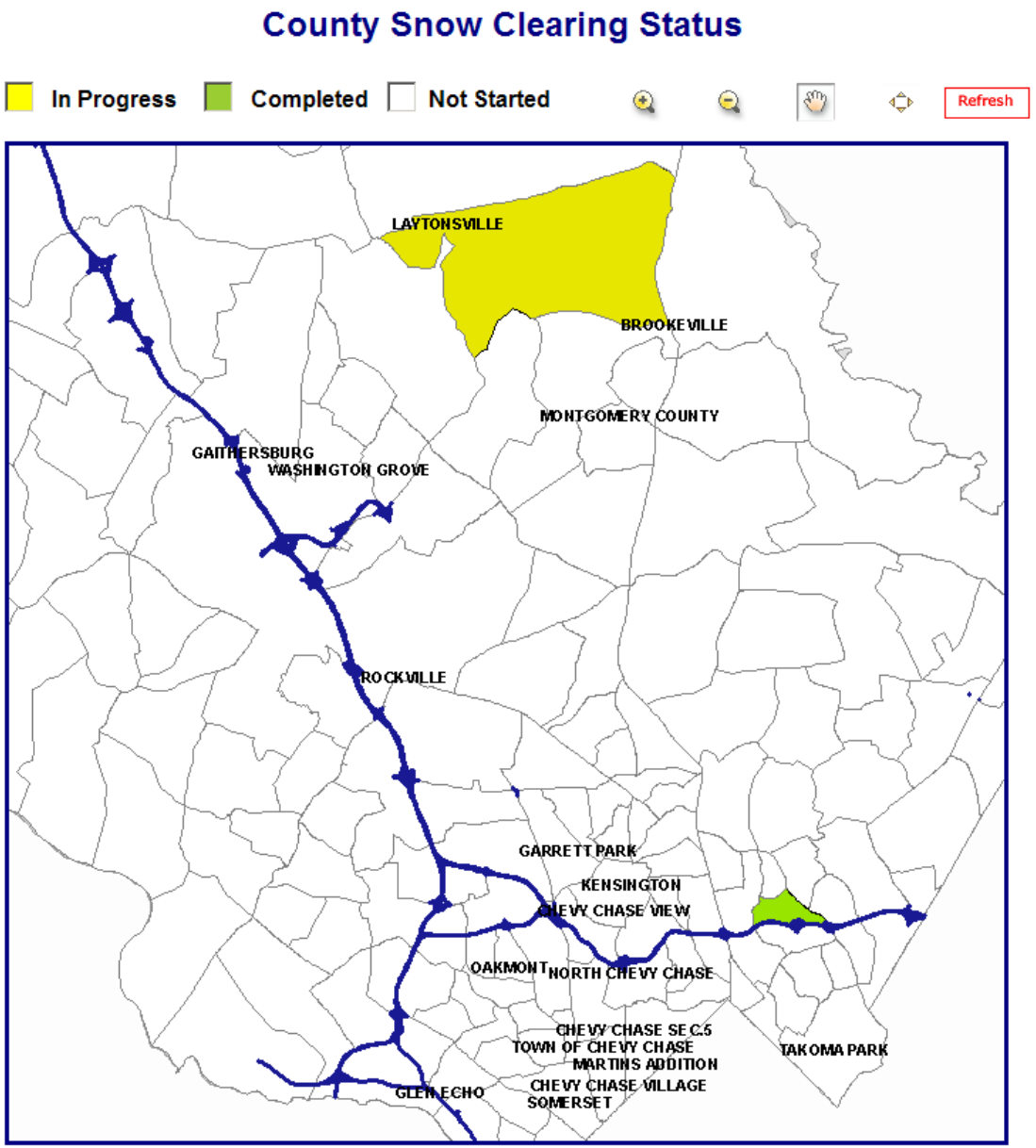
Operation Terms

- Responsibility
  - County or not county
- Categories
  - Emergency, primary, neighborhood
- Status
  - Not yet started, in progress, complete

Snow Plow Routes



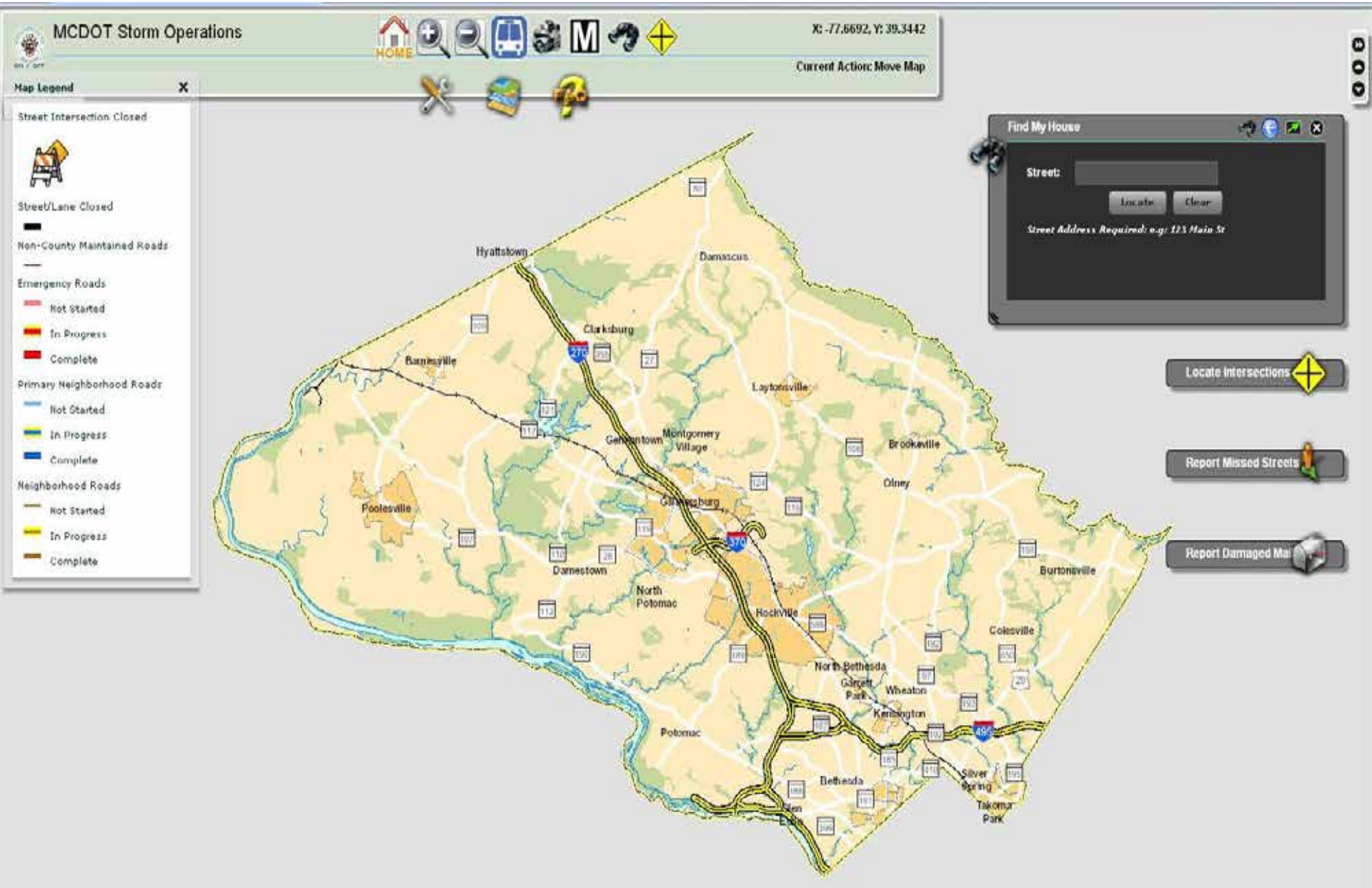
Old Snow Map


County Snow Clearing Status
In Progress
Completed
Not Started
Refresh
LAYTONSVILLE
BROOKEVILLE
MONTGOMERY COUNTY
GAITHERSBURG
WASHINGTON GROVE
ROCKVILLE
GARRETT PARK
KENSINGTON
CHEVY CHASE VIEW
OAKMONT
NORTH CHEVY CHASE
CHEVY CHASE SEC.5
TOWN OF CHEVY CHASE
MARTINS ADDITION
TAKOMA PARK
CHEVY CHASE VILLAGE
GLEN ECHO
SOMERSET

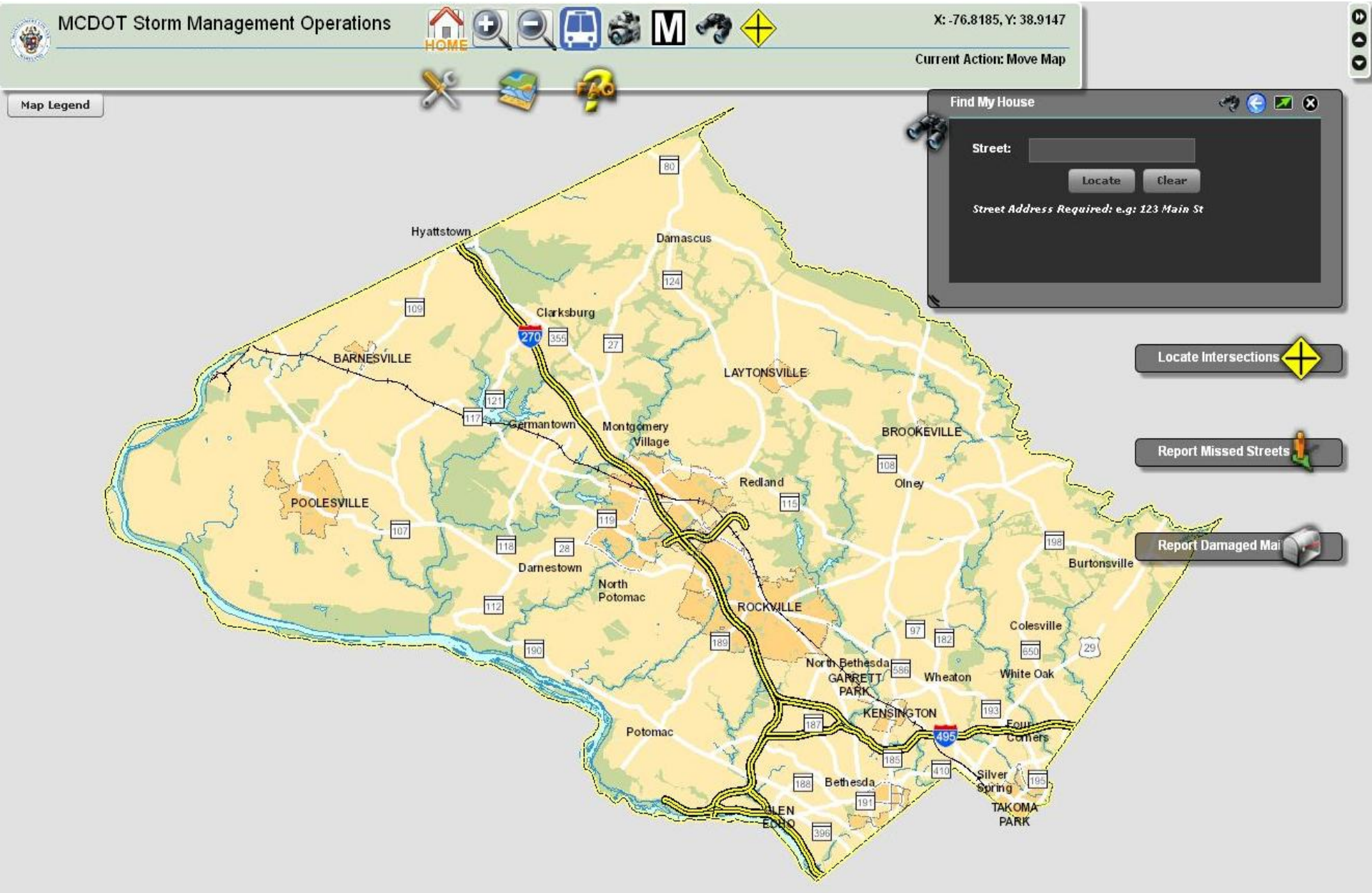
County main page

DOT Snow Tracking page

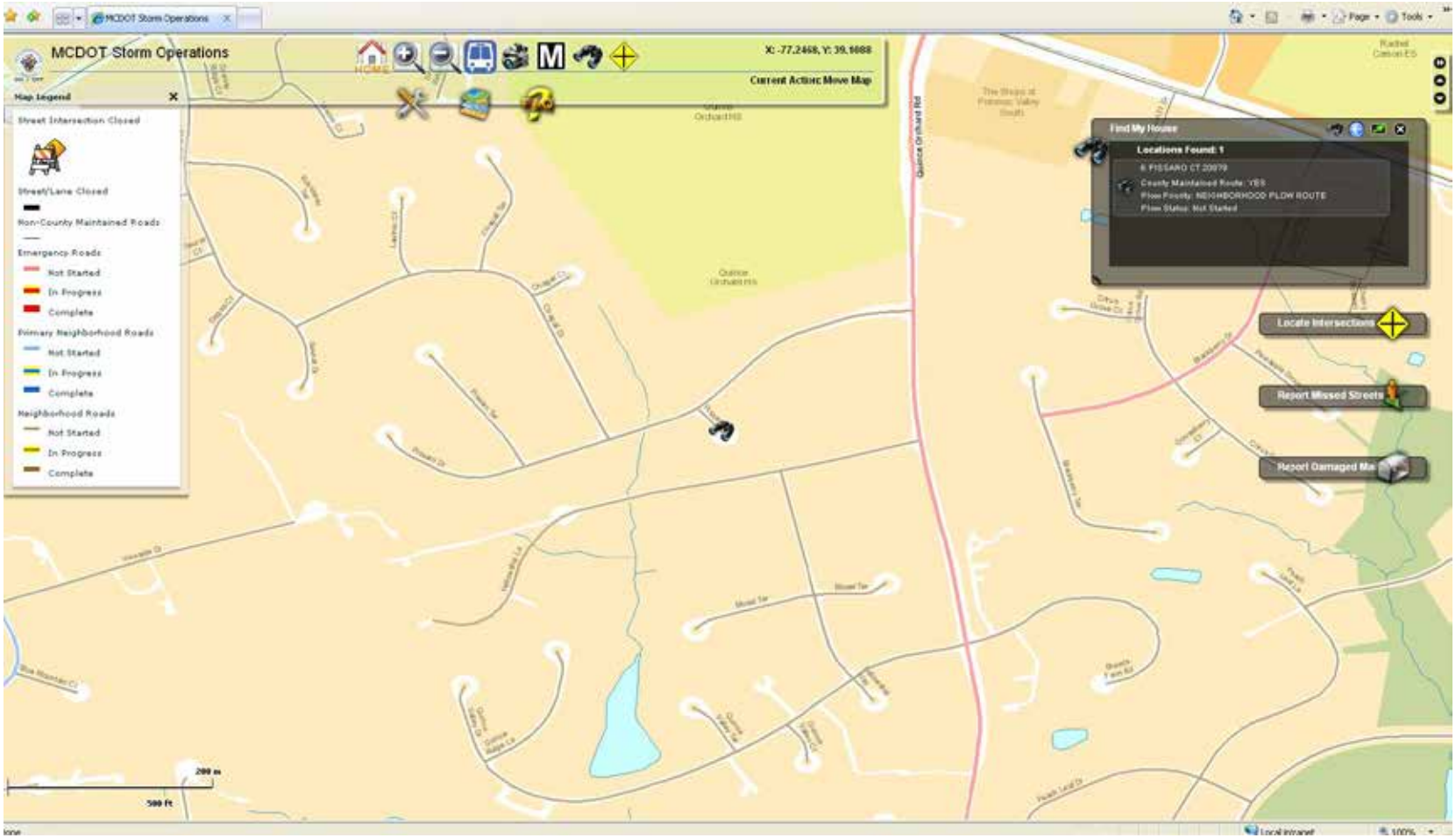
Snow Map – Main Page



Snow Map – Map Legend turned off



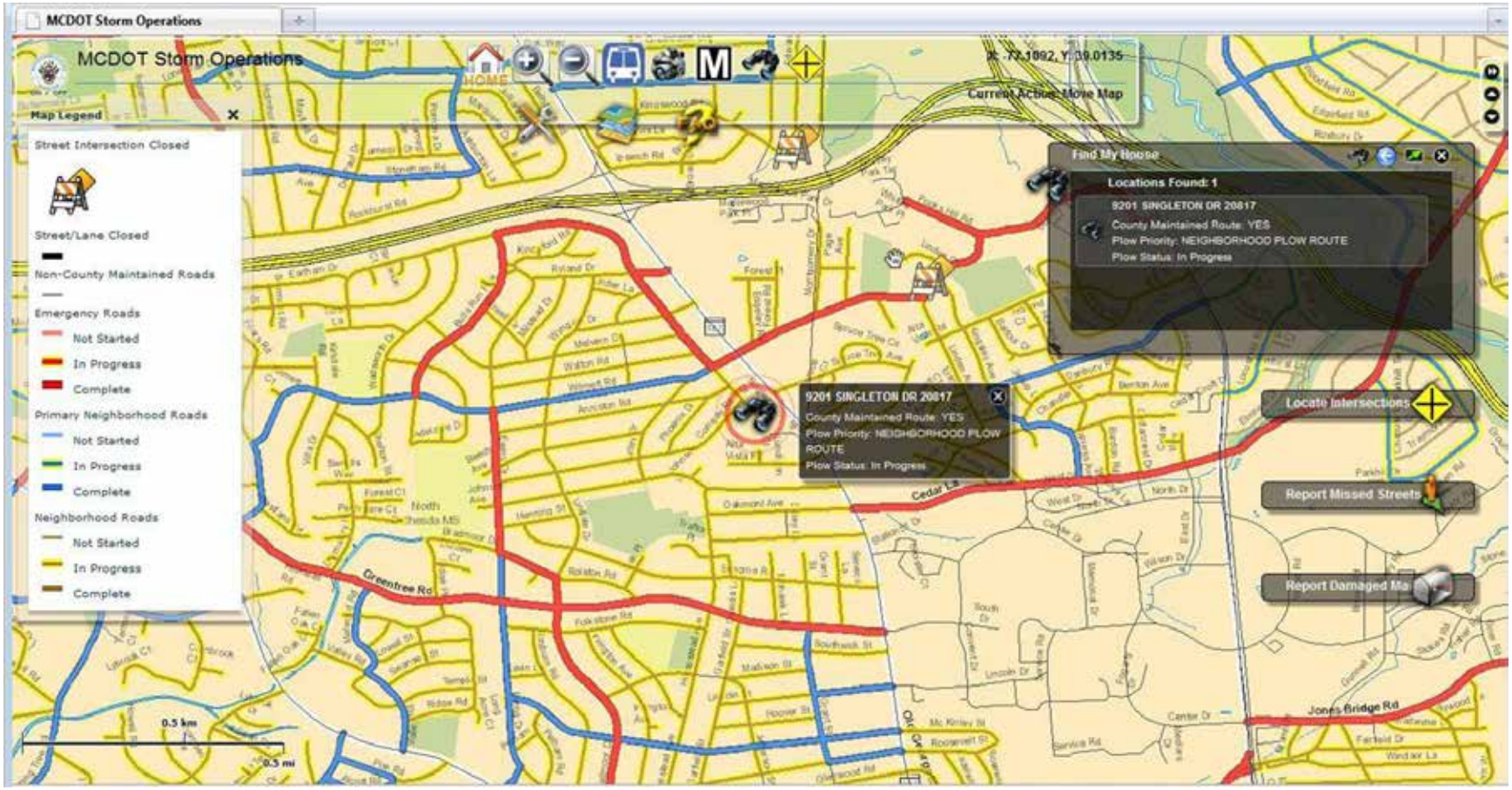
Find My House



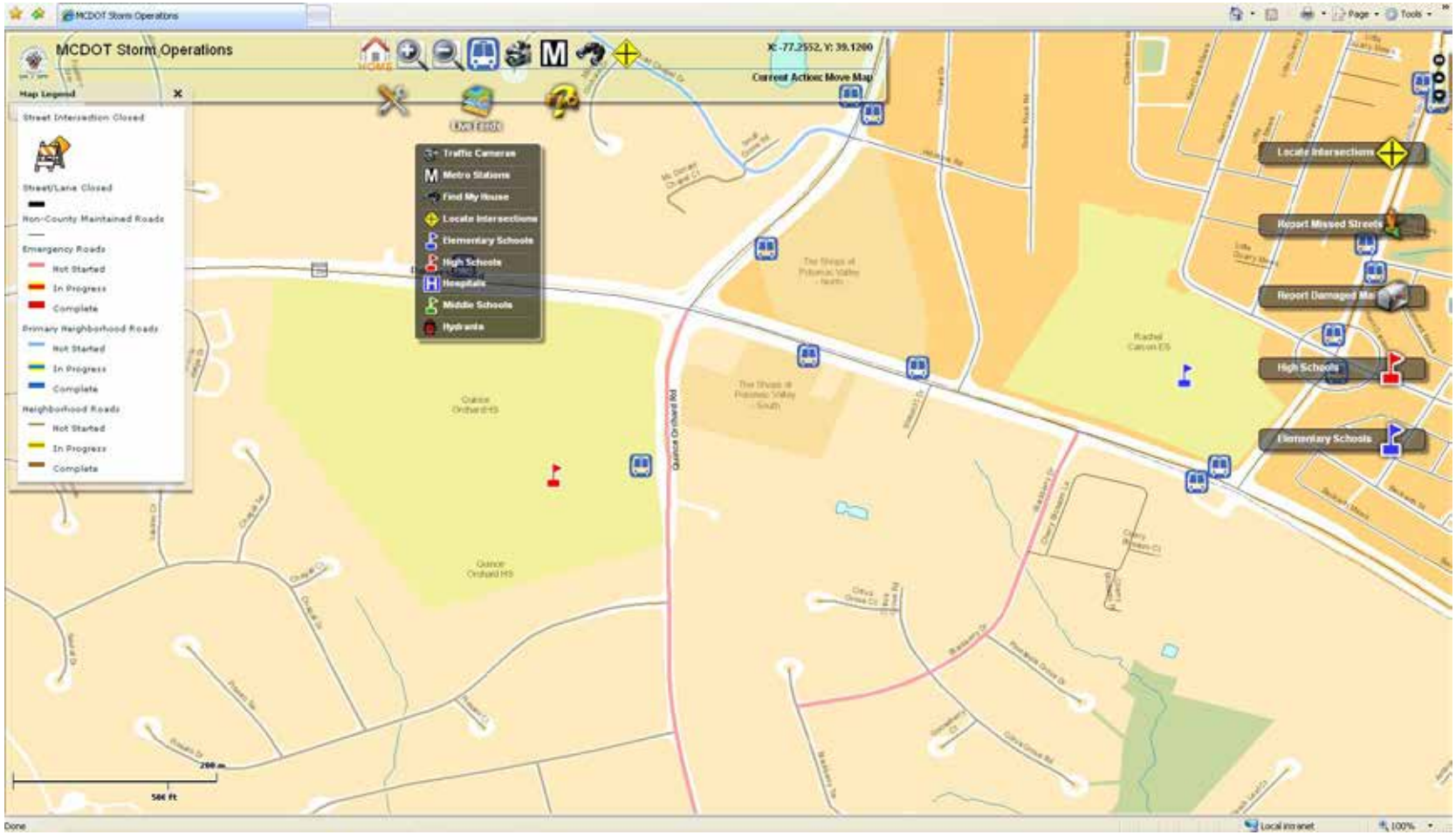
My House found

feedback: address, responsibility, priority, status

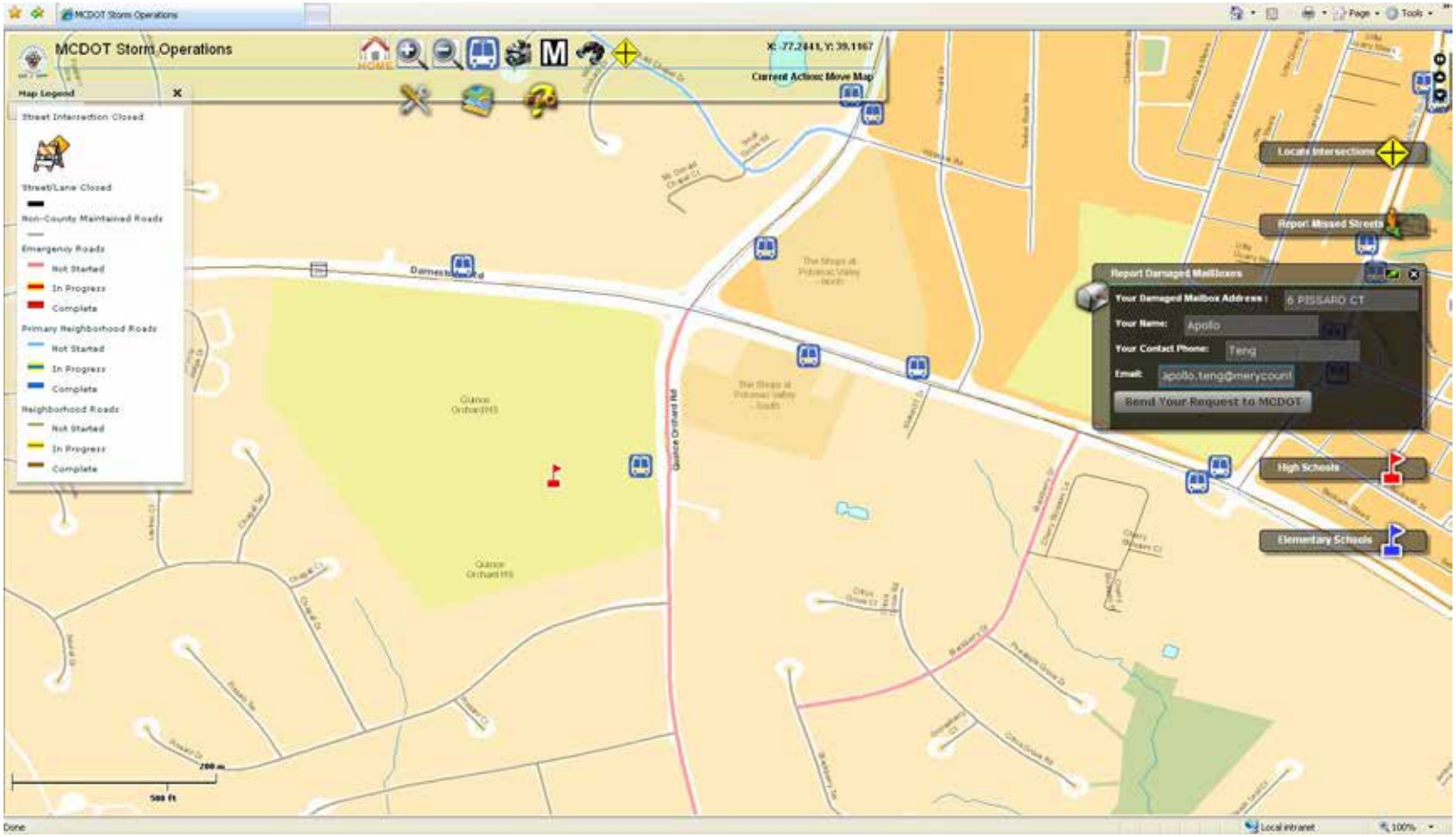
detailed plow status around ‘my house’



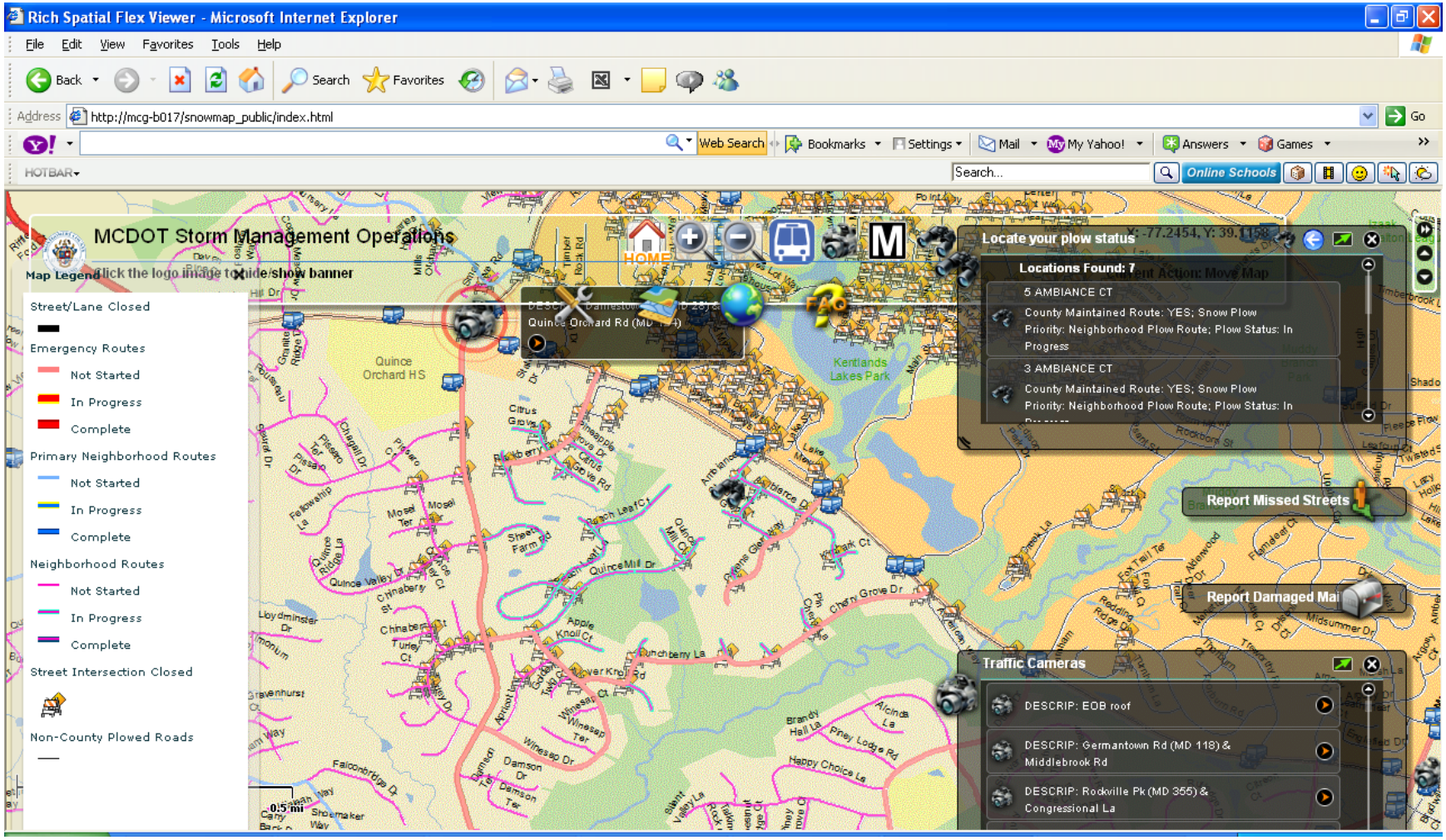
RideOn Bus Stops



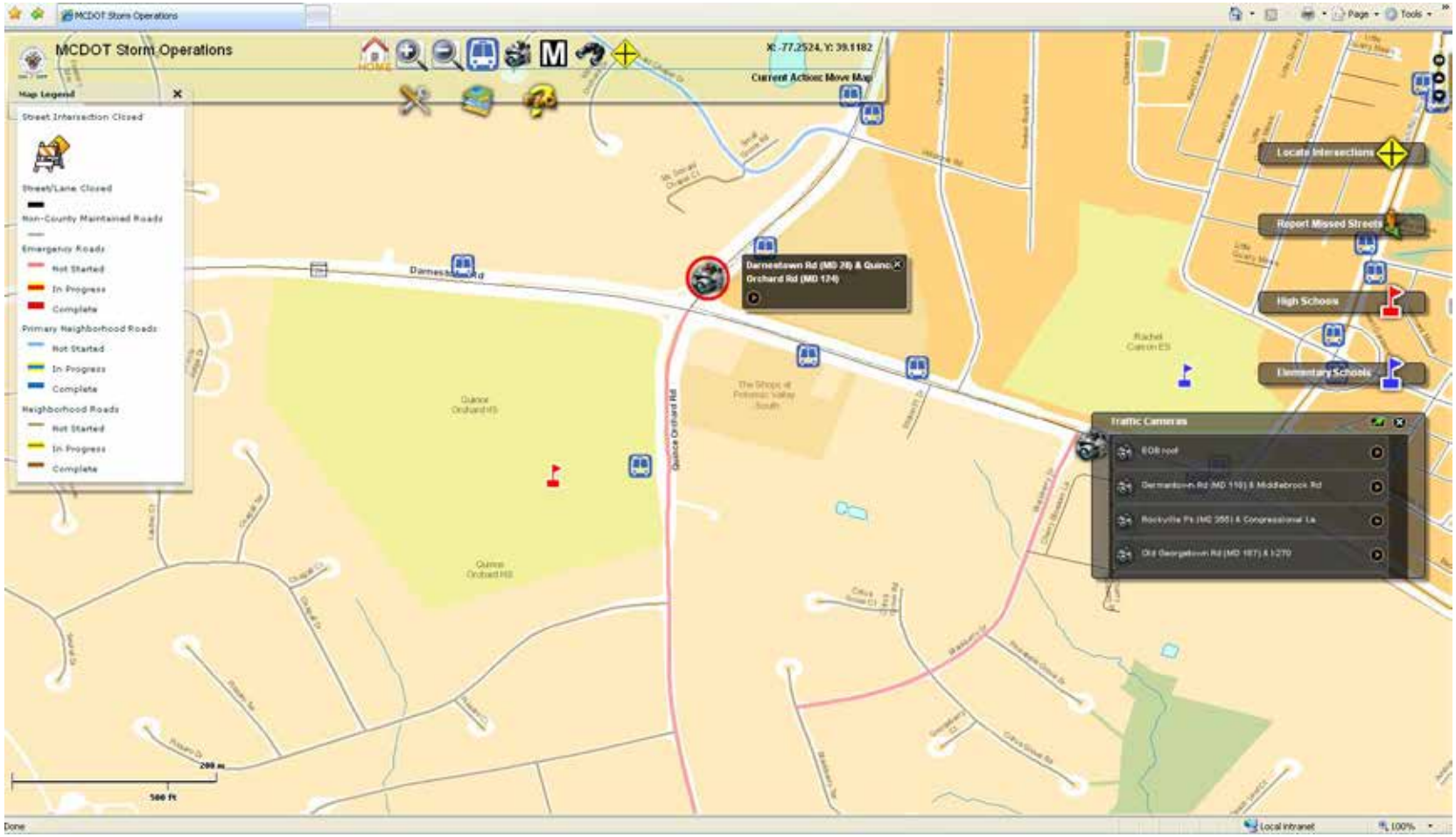
Report Damaged Mailboxes



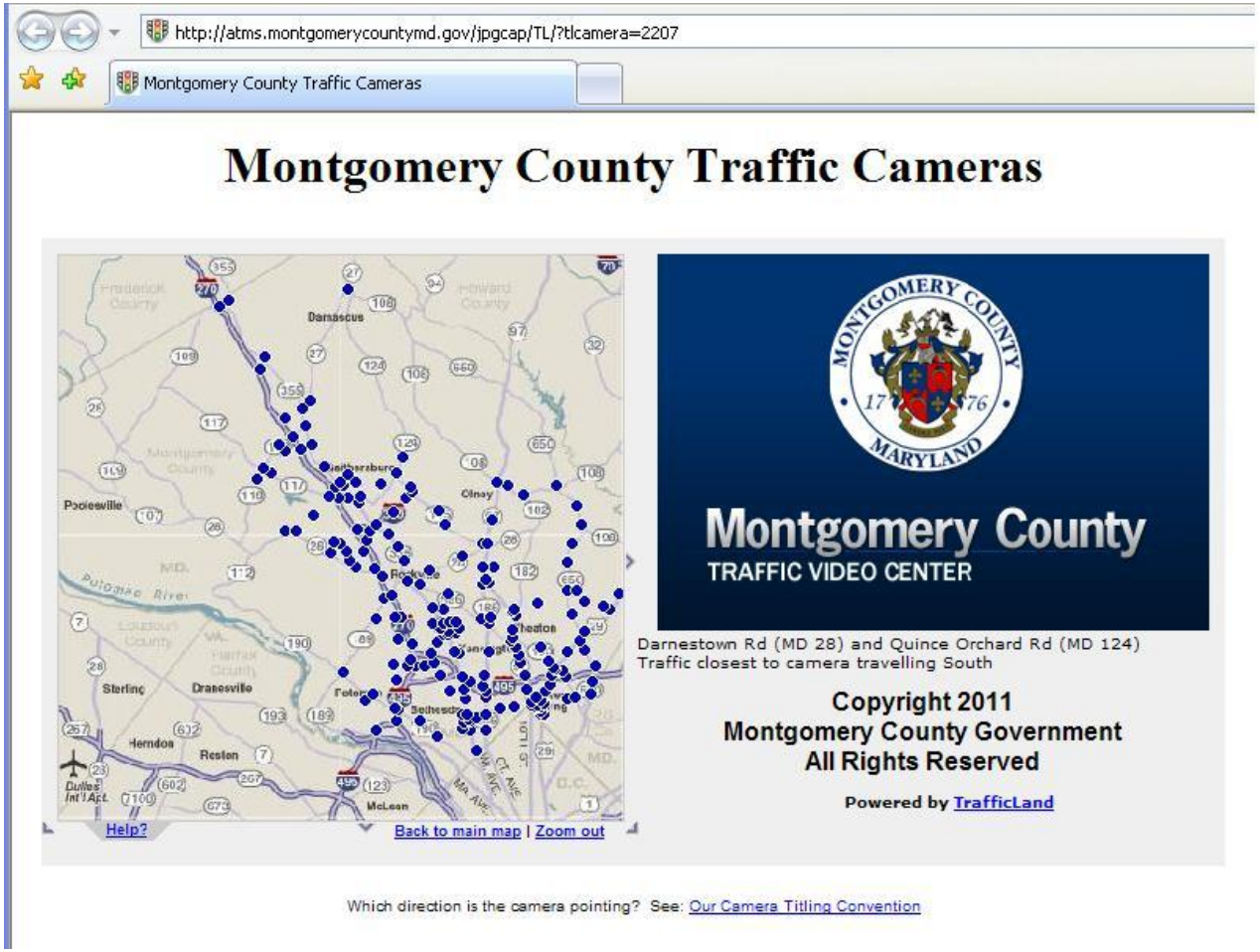
By clicking traffic camera button on the top menu, the residents can view the real-time road conditions of major intersections near their neighborhood



Traffic Camera

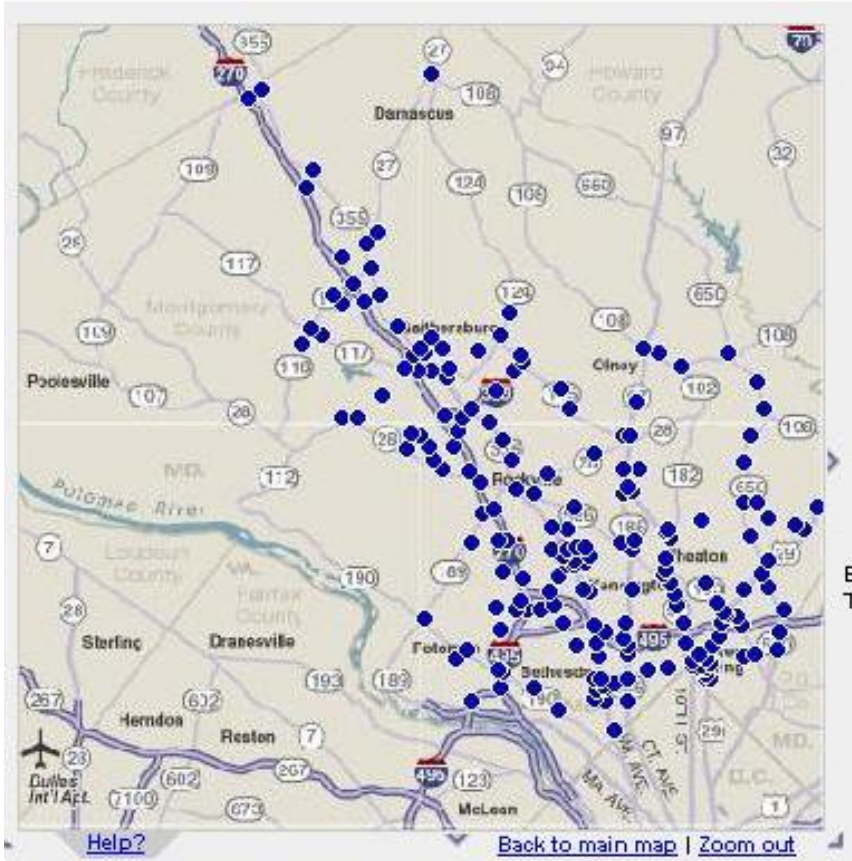


200 Traffic Cameras



Intersection of Rts 355& 28 – snow cleared

Montgomery County Traffic Cameras



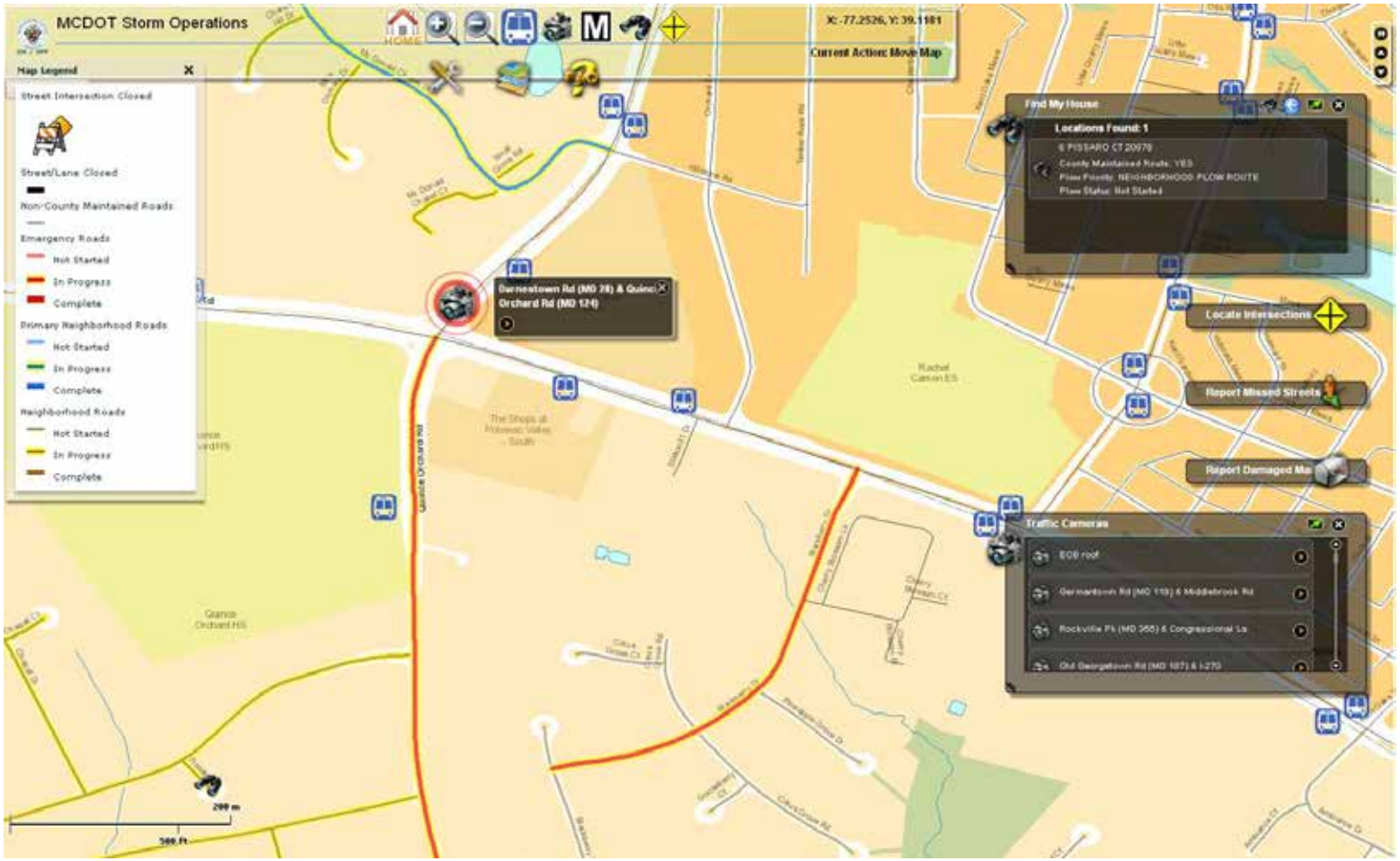
Eob Roof
Traffic closest to camera travelling South

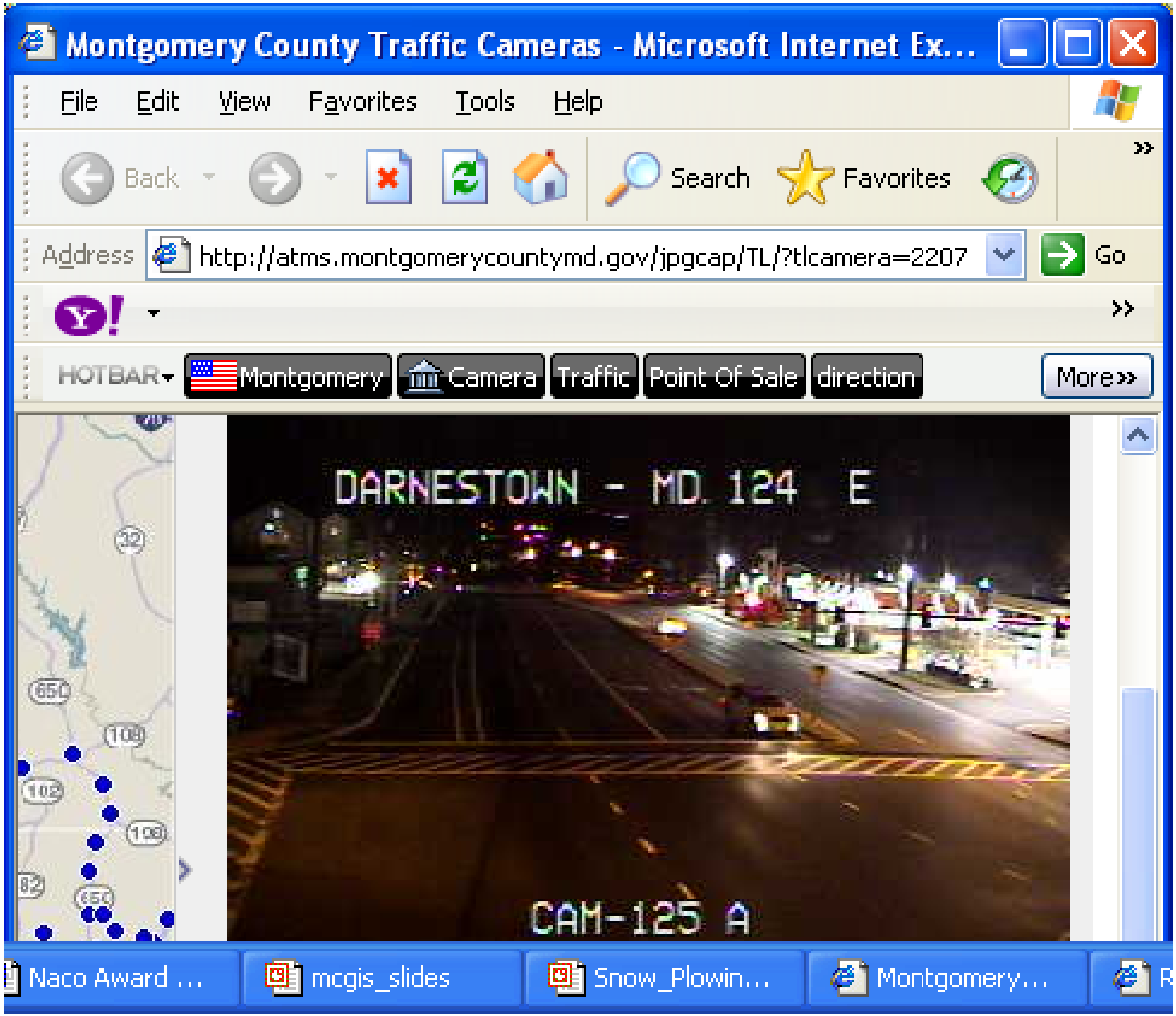
Copyright 2011
Montgomery County Government
All Rights Reserved

Powered by TrafficLand

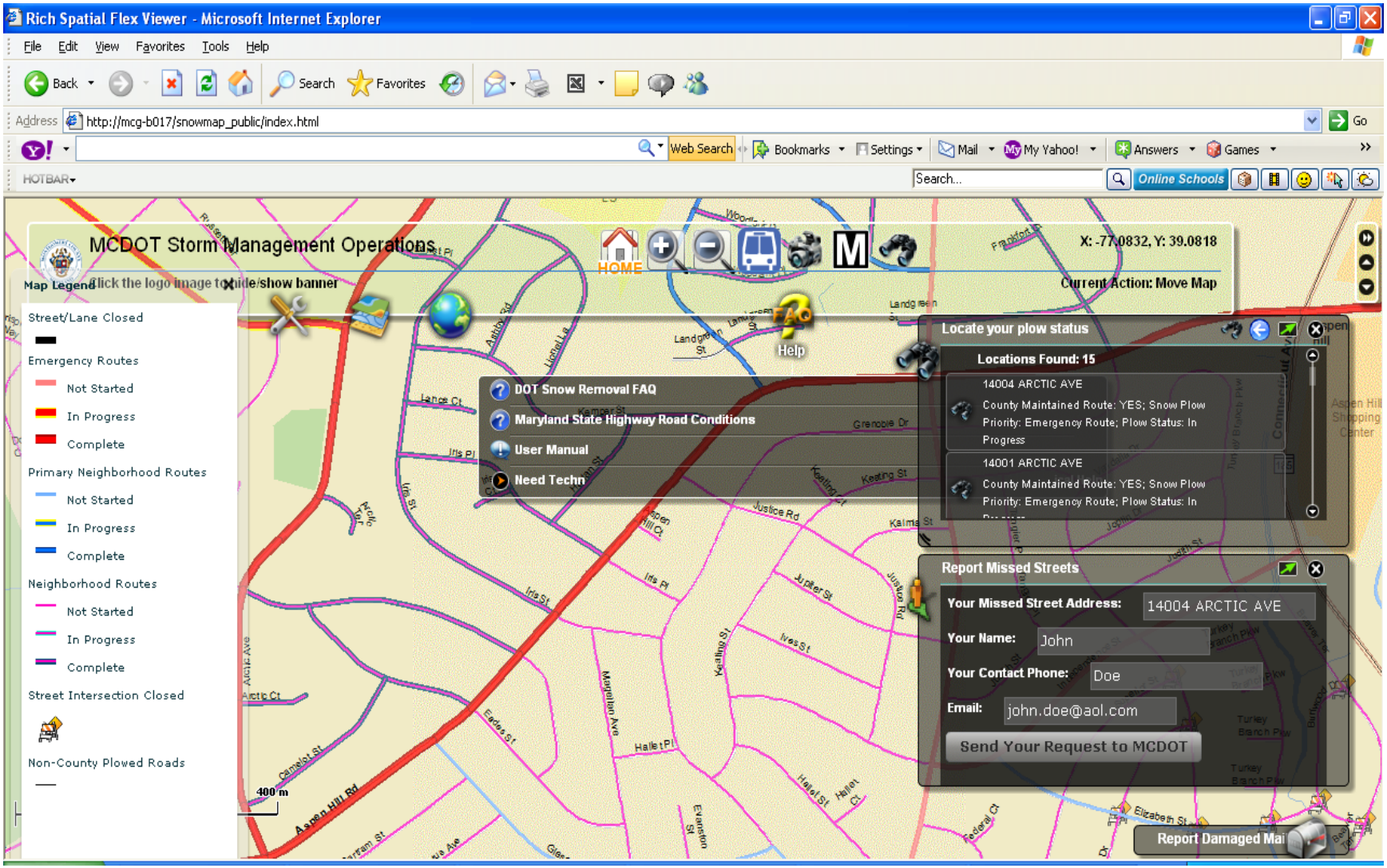
Which direction is the camera pointing? See: Our Camera Titling Convention

Traffic camera location

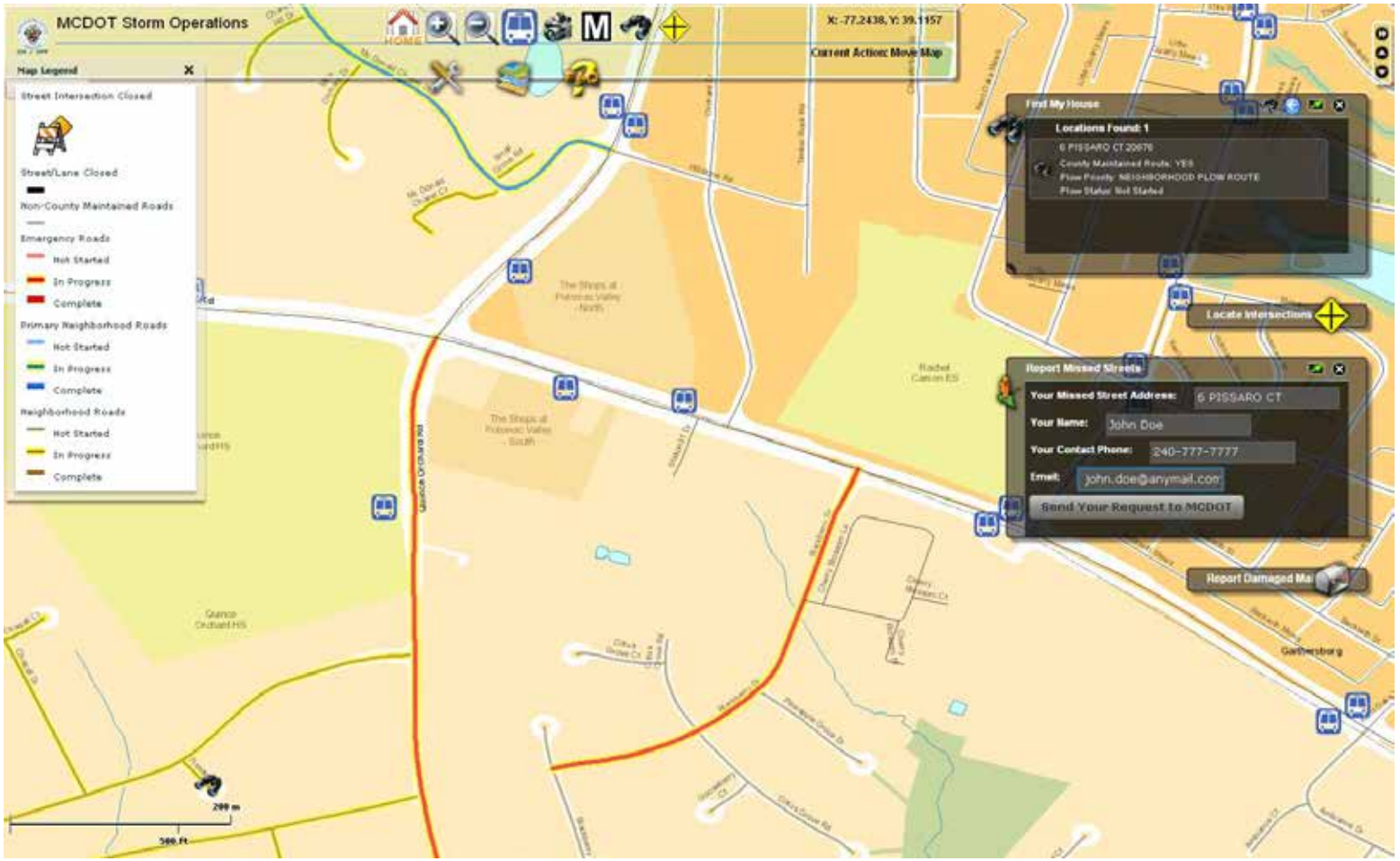



Montgomery County Traffic Cameras - Microsoft Internet Ex...
File Edit View Favorites Tools Help
Back Search Favorites
Address http://atms.montgomerycountymd.gov/jpgcap/TL/?tlcamera=2207
Go
HOTBAR Montgomery Camera Traffic Point Of Sale direction
More»
DARNESTOWN - MD 124 E
CAM-125 A
Naco Award ...
mcgis_slides
Snow_Plowin...
Montgomery...

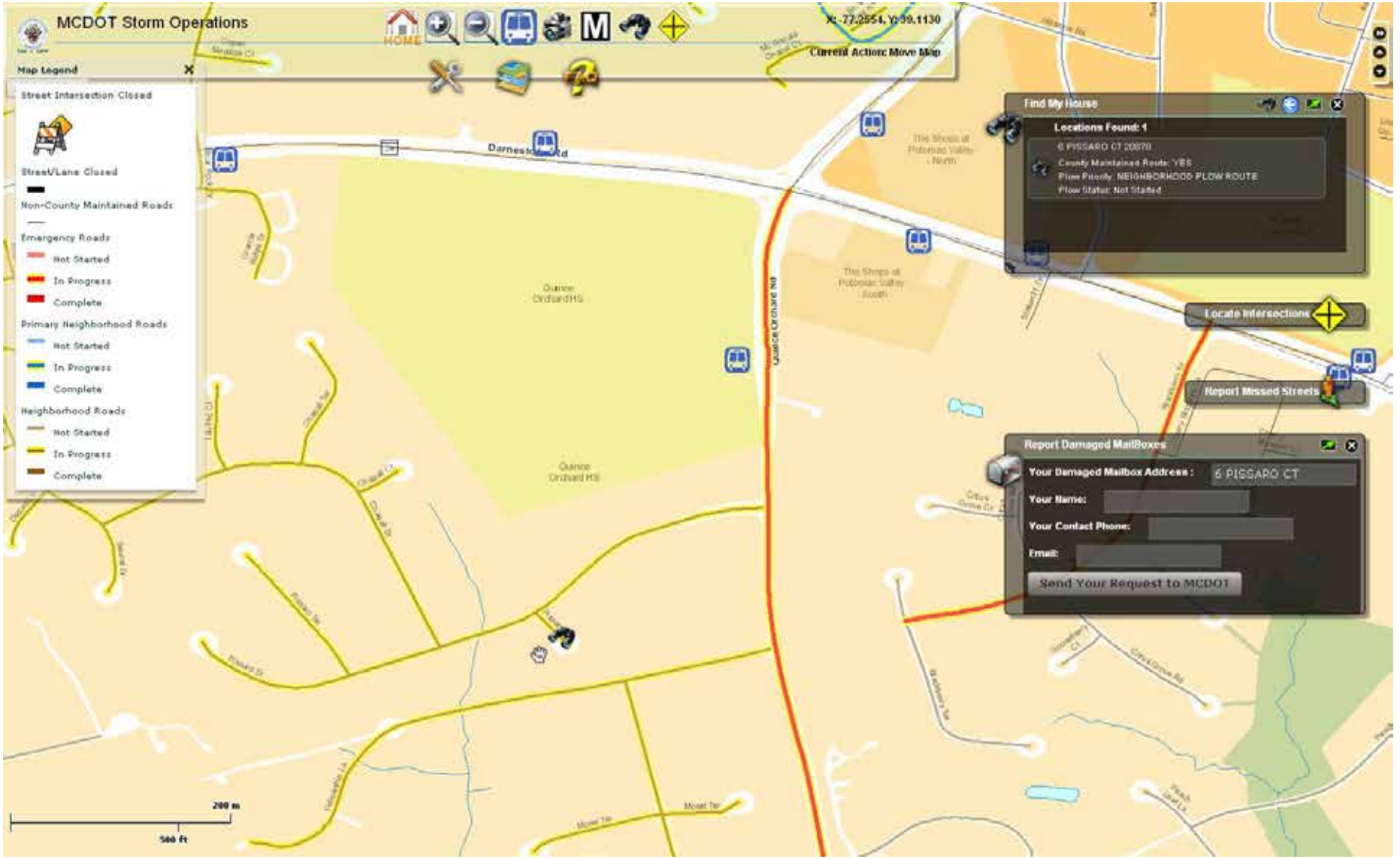
Residents can submit “missed street” service request; the FAQs are also presented to them



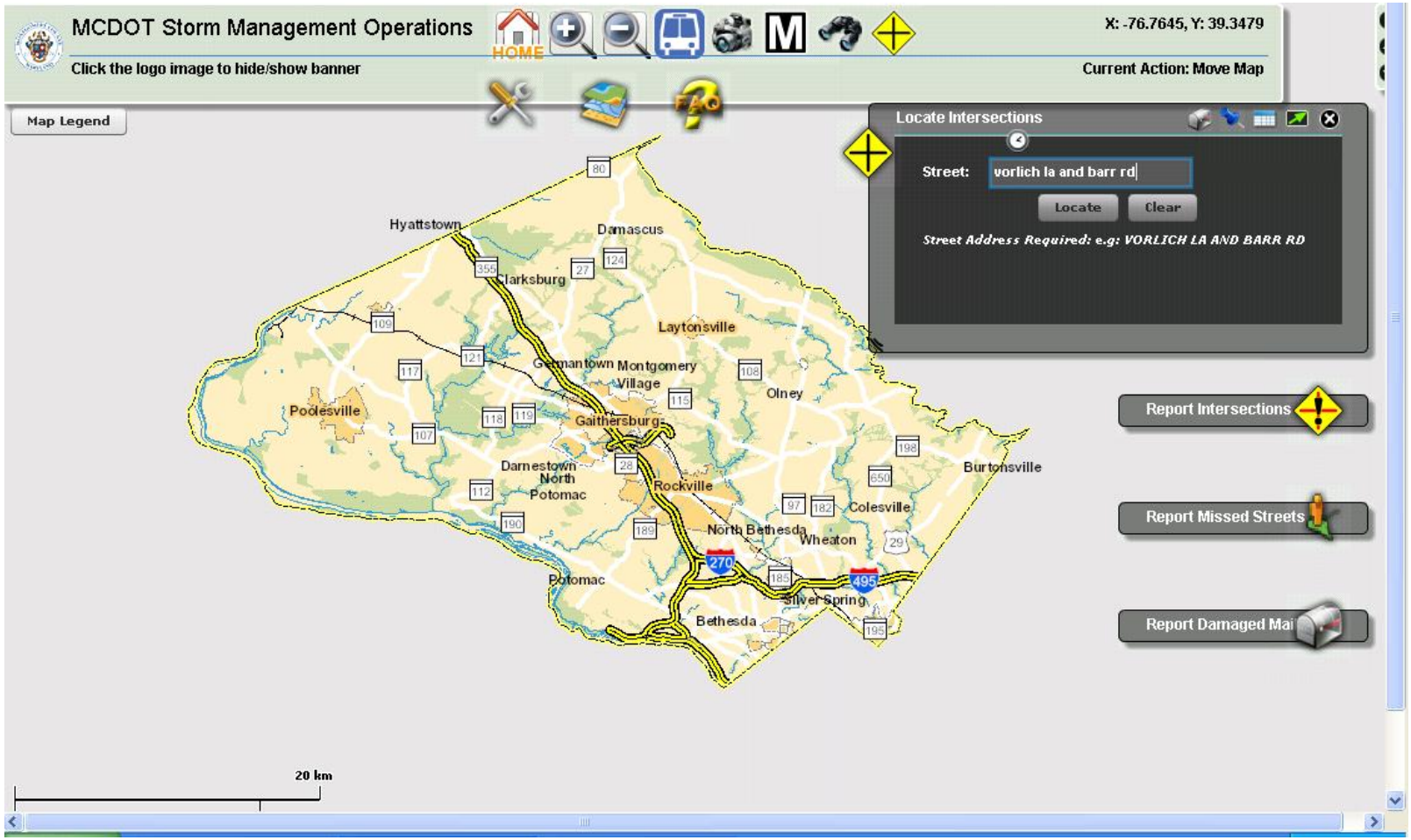
Report Missed Street



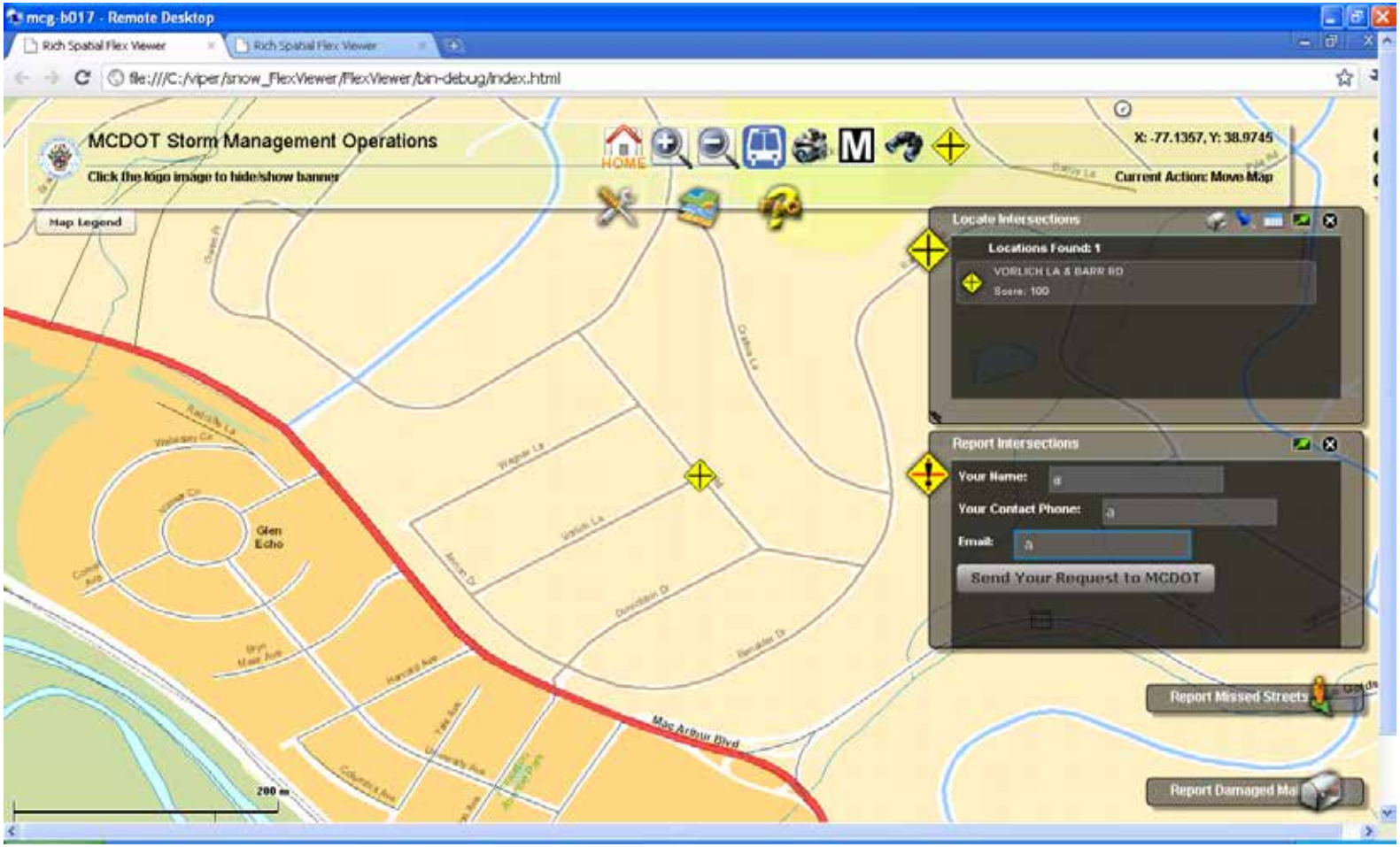
Report Damaged Mailboxes



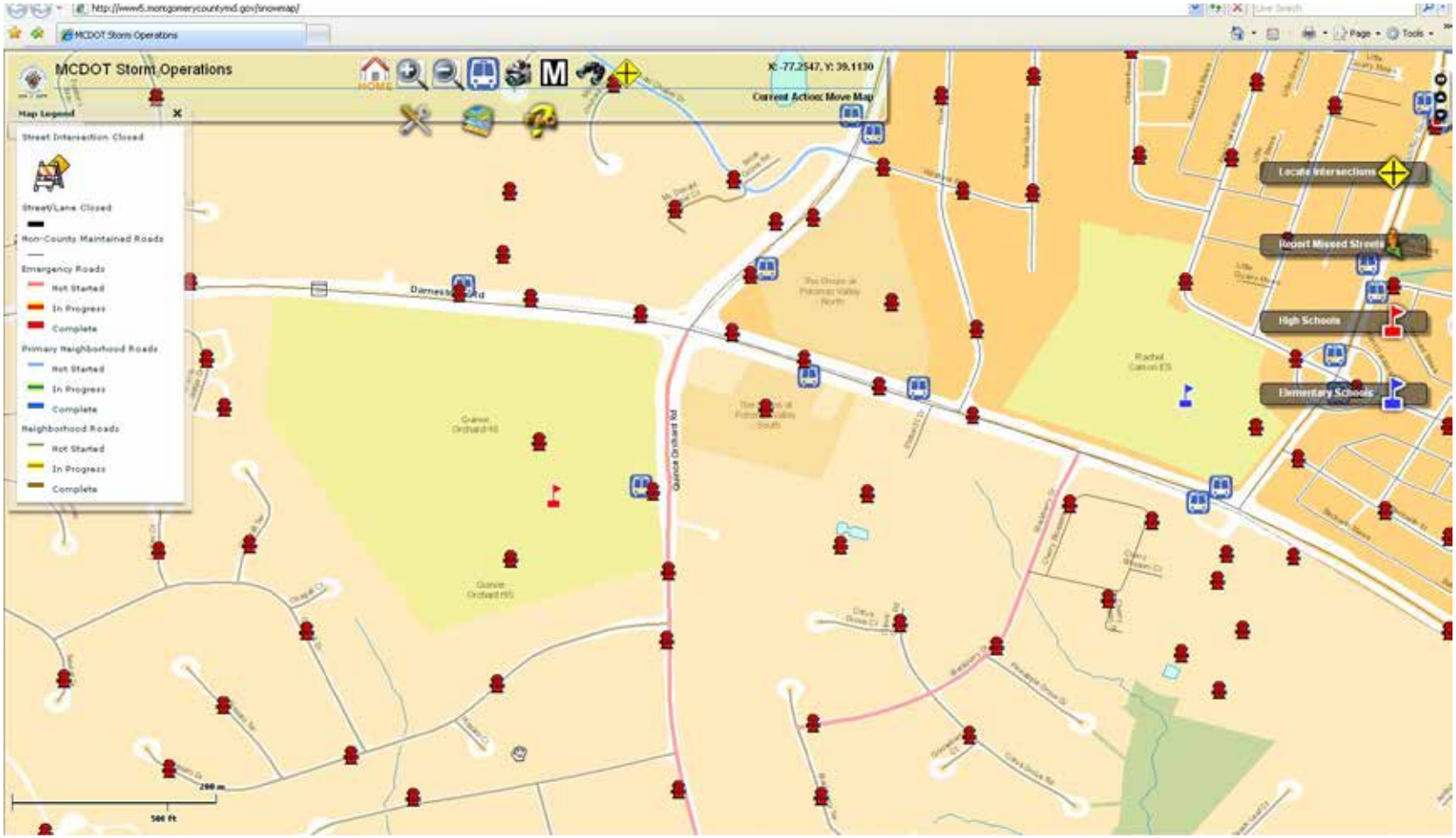
Locate Intersection



Intersection Found



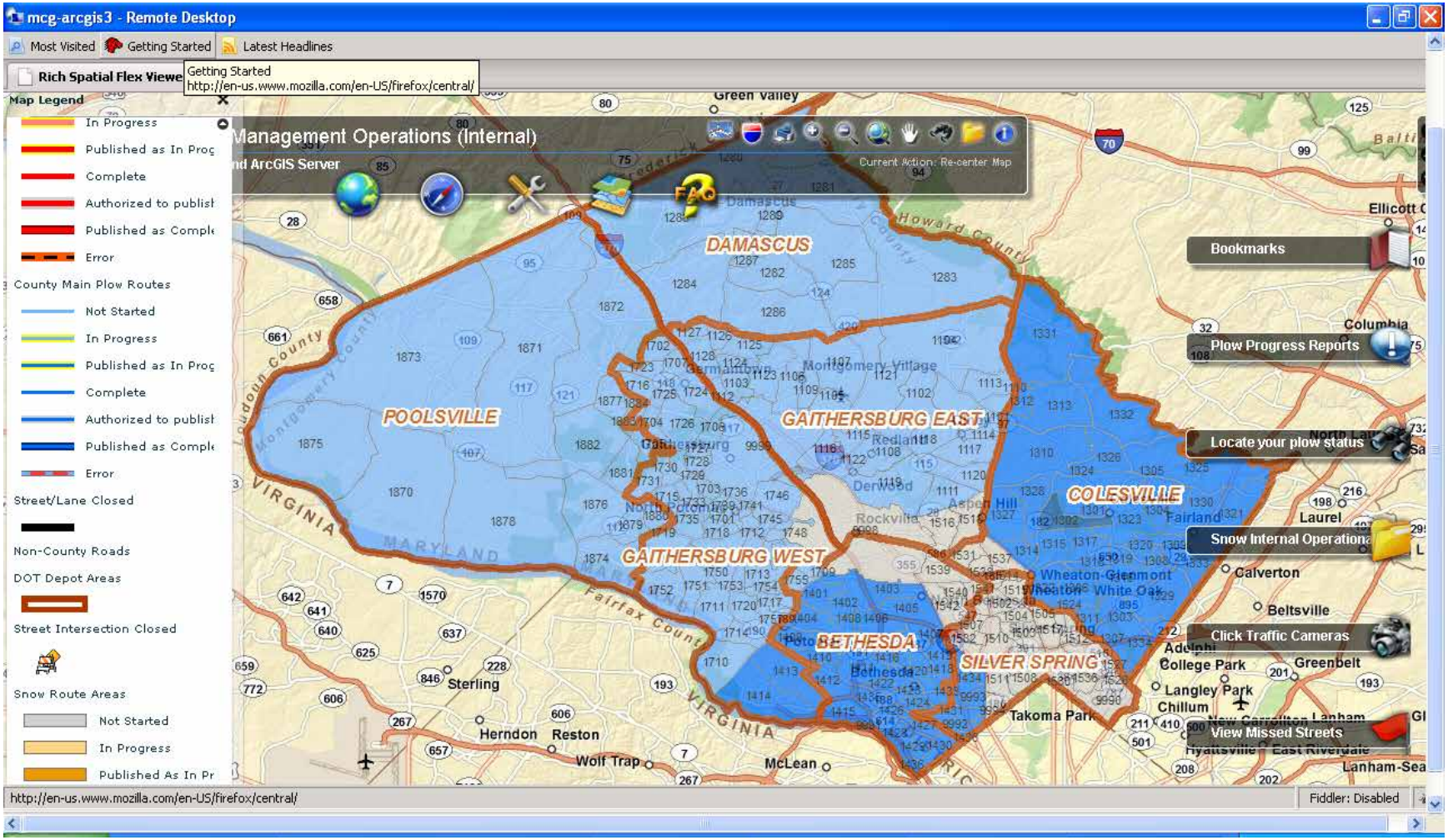
Fire Hydrants – Please clear the snow!



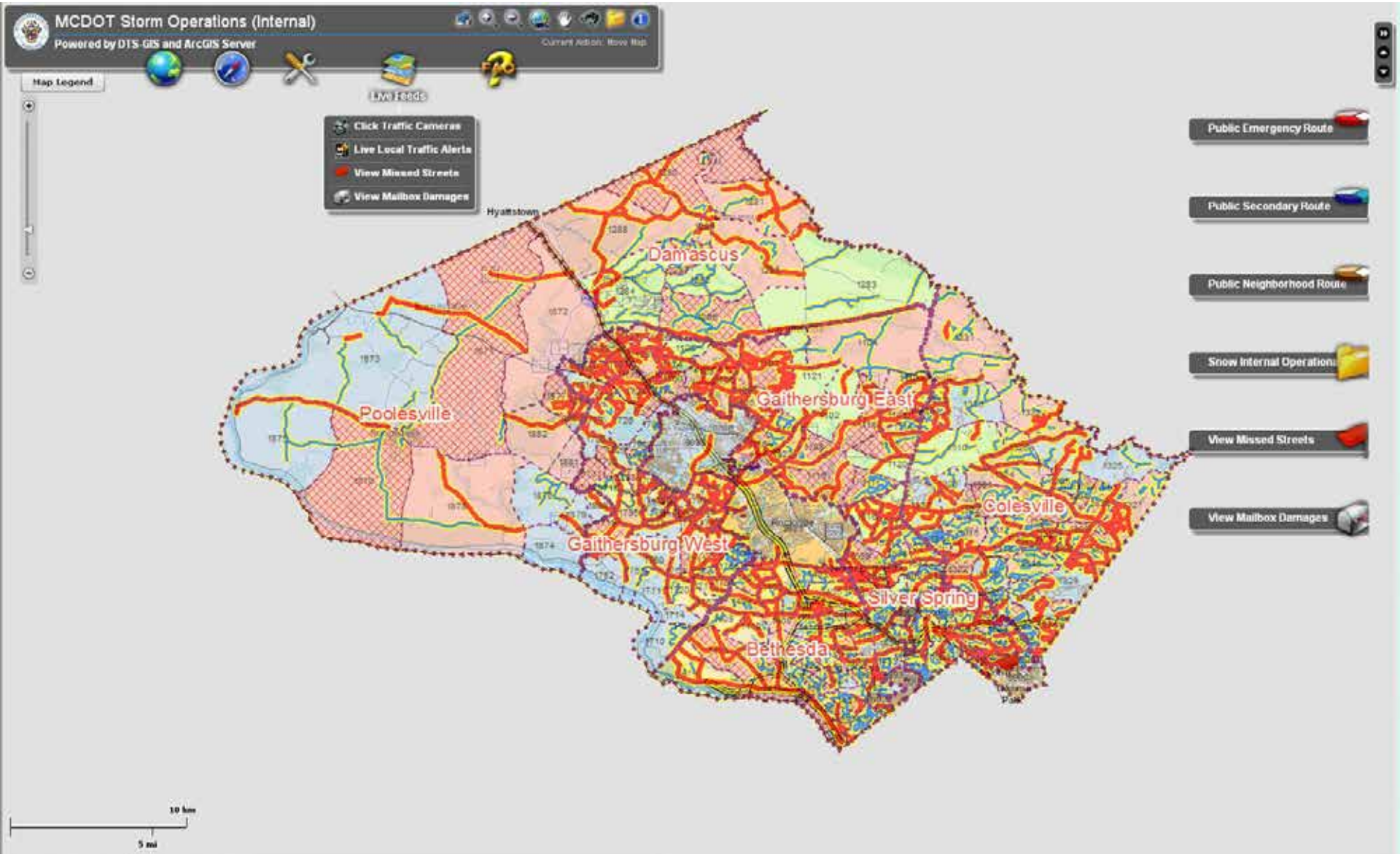
12-14-2010 Press Conference

MCDOT Snow Map (Internal)

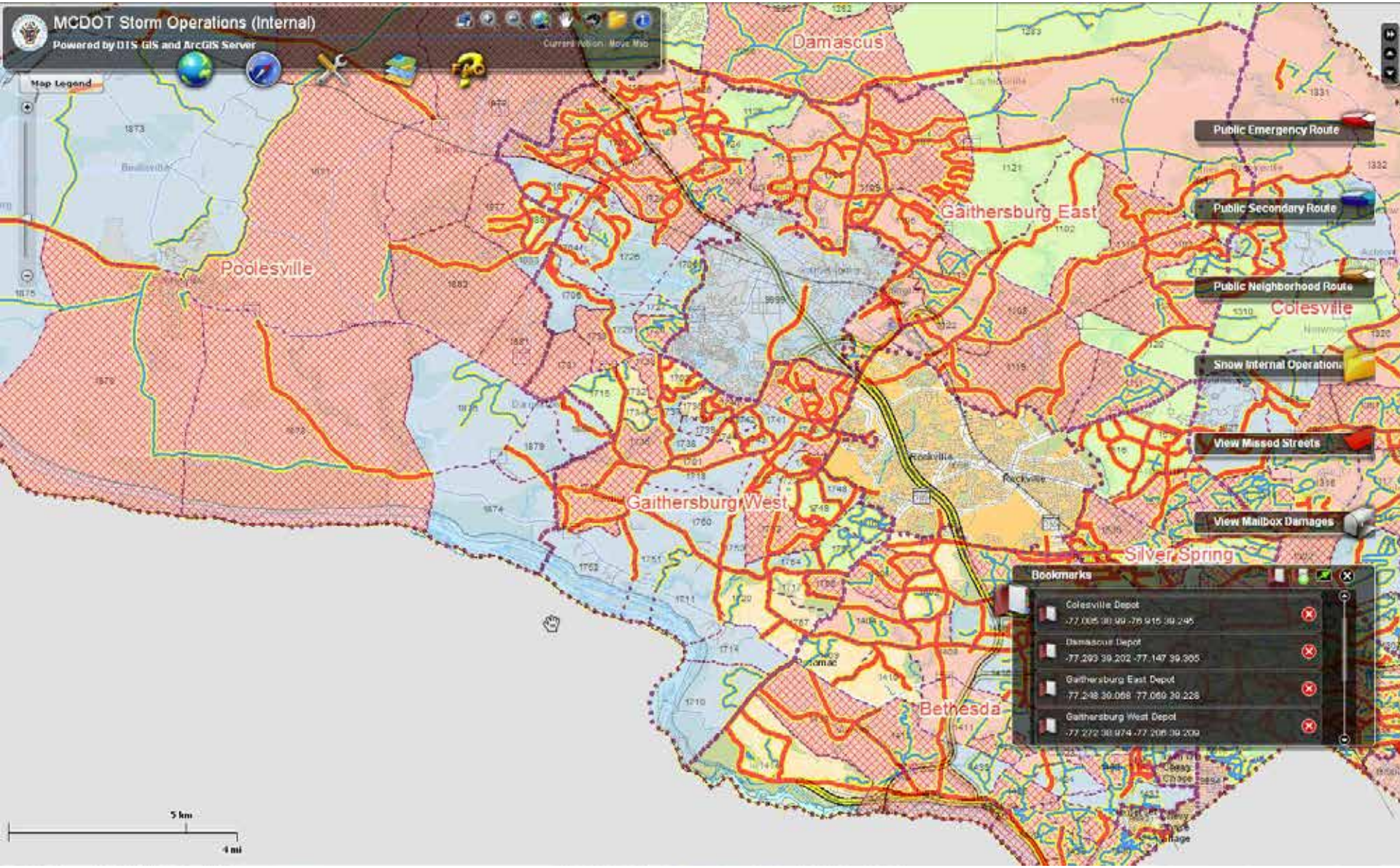
MCDOT staff can track the area-based plow status by Depots (7) and route areas (about 210)



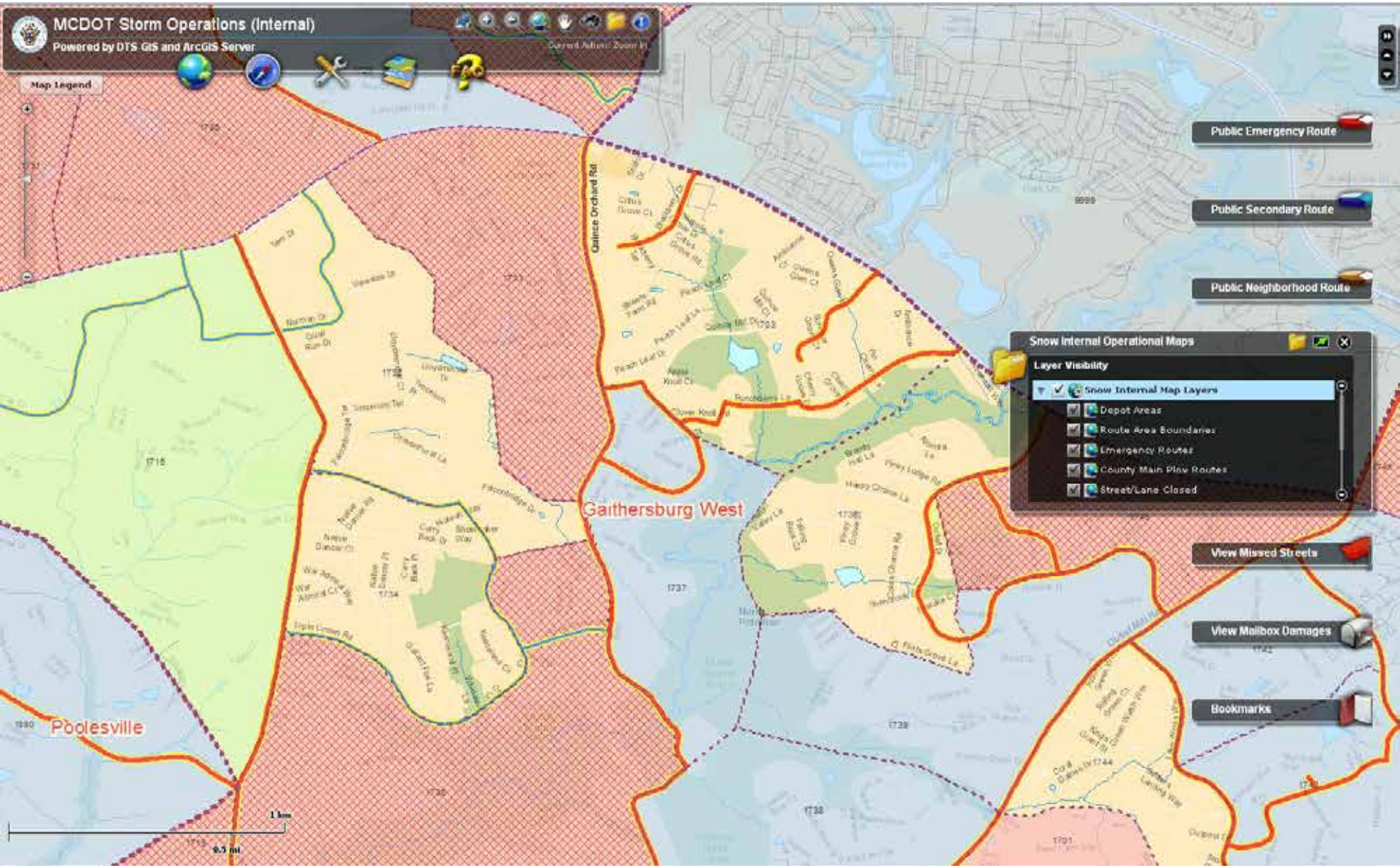
Internal map: route by route status, missed Streets, damaged mailboxes



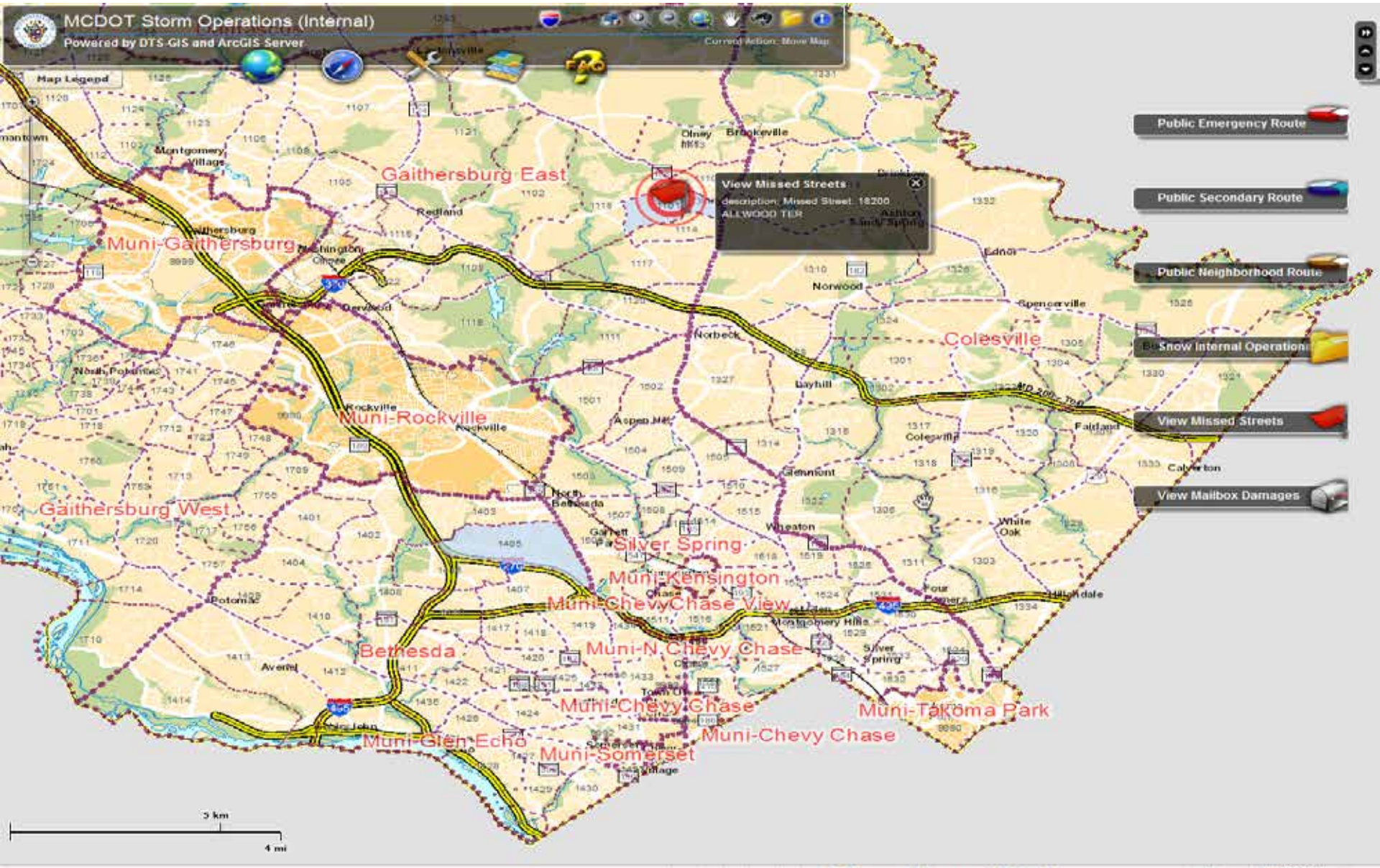
Internal map – bookmark for each Depot



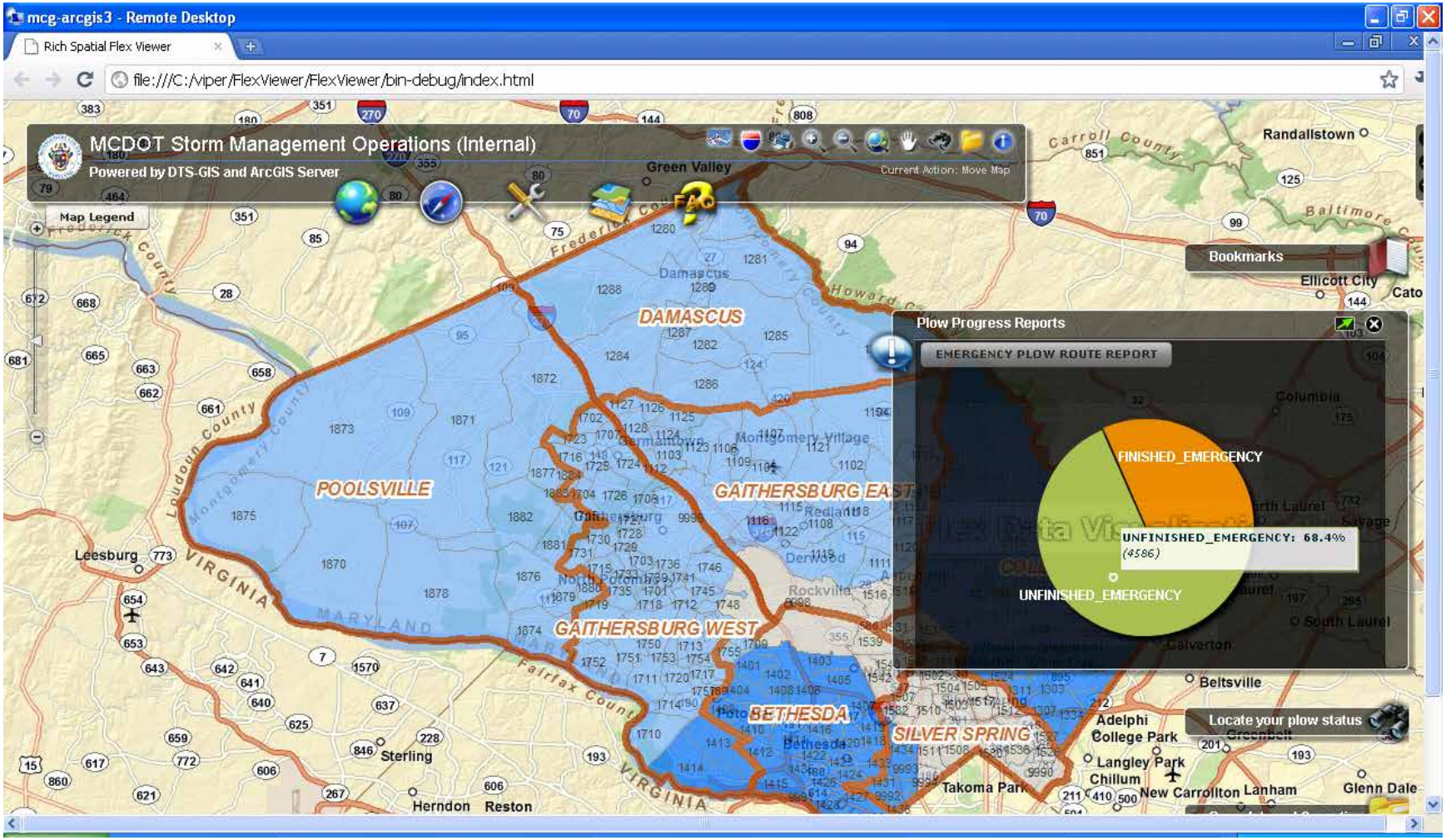
Internal map – controlling layer visibility



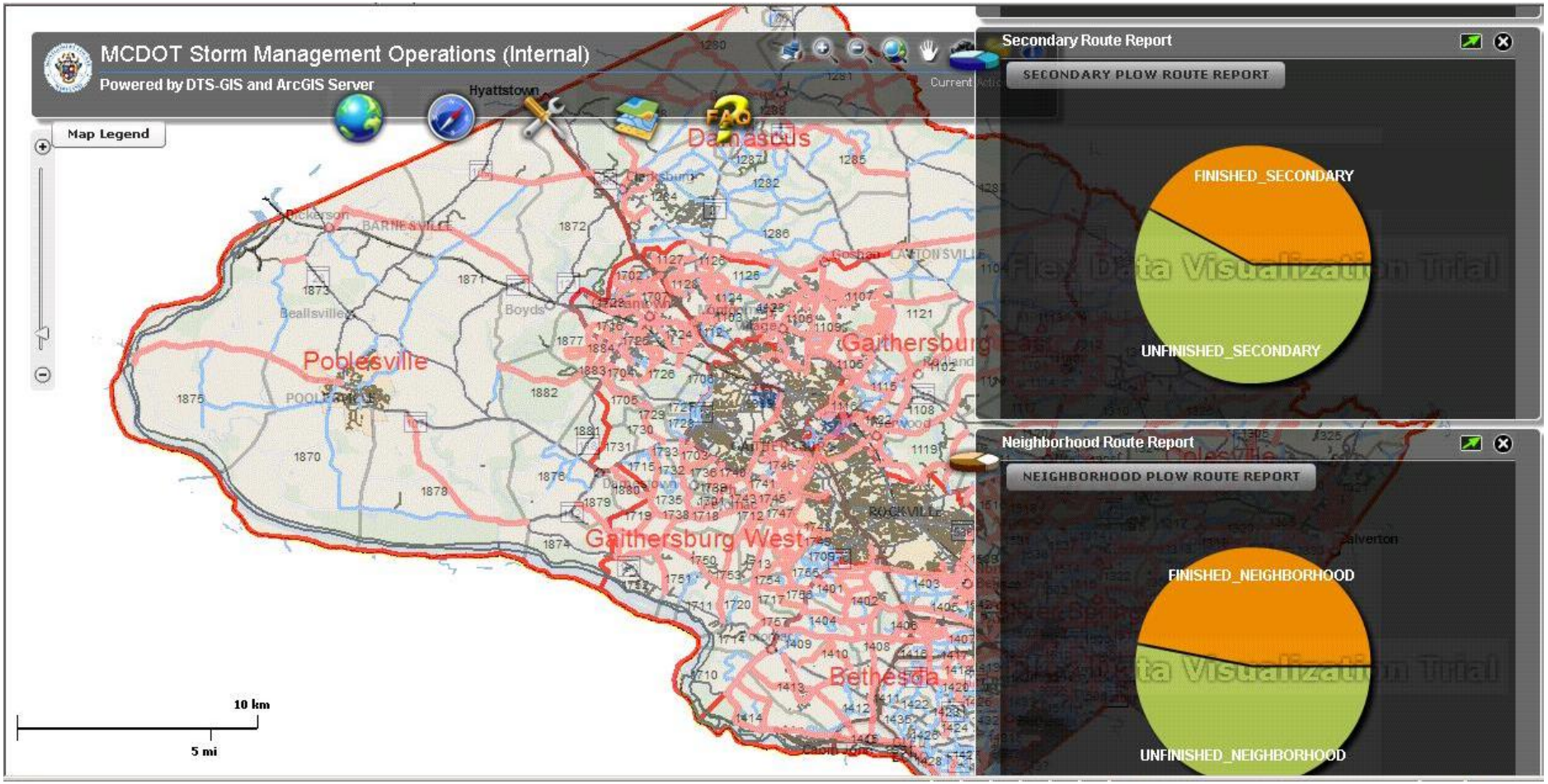
Depot supervisor sees missed streets



Top-level county and DOT administrators can view the real-time plow matrix on emergency routes



countywide progress



Award, Presentation

- “Storm Management Operations Map” - 2011 NACo Achievement Award
- “Storm Management Operations Map” – 2011 CEAM Award
- ESRI 2011 FedUC presentation – 1/20/2011
- ESRI 2011 MUG Conference – December 6, 2011

2011 NACo Achievement Award

Q & A

Apollo.teng@montgomerycountymd.gov

240-777-2883

Reza.zarif@montgomerycountymd.gov

240-777-7619