DC GIS Steering Committee Meeting
March 16, 2006

Barney Krucoff
GIS Director
Office of The Chief Technology Officer
Barney.Krucoff@dc.gov
202-727-9307

Agenda

- Introductions – Barney Krucoff
- DC GIS News – Barney Krucoff
  - Web Site Update
  - Planimetric Map Update
  - Regional Geospatial Interoperability Update
- Data Report – Mario Field & Group
- Training Report – Tim Abdella
- GIS Systems consolidation update – Zhen Lo
- GIS Program Restructuring – Barney Krucoff / Adam Rubinson
- Agency Presentation:
  - DC EMA – Joshua Jack

Our Next DC GIS Steering Committee Meeting has been scheduled
Thursday, May 11, 2006, at 1:00 p.m., Conference Room 1117
441 4th Street NW.

News Items

- GIS Liaisons are now OCTO Liaisons report to the PMO (Sandra Borden)
  - David Seidman
  - Ed Wells
  - Caroline Molivadas
  - Robert Horne
  - Mike Clifton
- David's duties are changing the most
- Other liaisons will continue to perform similar functions and have the opportunity to provide broader support.

News Items

- GIS Budget
  - Capital funding of GIS has been generous in the past.
  - For 2007 The Budget Review Team (BRT) recommended that the capital budget (N1602B and ZA143C) be cut/deferred by 90%. This was not an enhancement request. Last year's capital budget book had $3.5M for GIS in 2007. Now we will have $350,000.
  - Neither OCTO GIS nor this committee was asked to defend what was in the budget book, nor were we asked about the effect of the cuts.
  - GIS continues to have a very thin operating budget within OCTO's Egov account. For 2006 that budget pays for:
    - Three FTEs
      - Barney Krucoff, GIS Director
      - Cheryl Harris, Project Coordinator
      - Mario Field, Data Team Lead
    - Approximately $200,000 for other non-personnel service items
  - A $905,000 operating budget enhancement request was made
  - More about this later in the meeting

News Items

- http://dcgis.dc.gov remake approved yesterday
  - Moves site to DSF content management system and content similar to our intranet site (http://dcgis.in.dc.gov) for the public.
  - Urban Area Security Initiative Concept Paper requests $1M with focus on regional data development
  - Coordination needed with various software packages and standards with both complementary and overlapping capabilities are vying to be the regional geospatial data clearing house and or map viewer.
    - MEGAN, EMA (ArcIMS, State of Maryland)
    - Mapping within WebEOC
    - CapStat
    - VR3 (ArcIMS, State of Virginia)
    - Others

News Items

- MAR Web Service Change April 7
  - Adds Redundant hardware
  - Allows DCGIS.dc.gov to go to DSF
- You will need to make the following code change to every application that calls the MAR Web Service.
  - From: “http://dcgis.dc.gov/newwebservices/locationverifier.asmx”
  - To: “http://citizenatlas.dc.gov/newwebservices/locationverifier.asmx”
- Path to the Mobile Video images will also change
- The new version is live and ready to use now.
- For assistance please contact Tianpu.Liang@dc.gov.
- This change will also be announced/processed through Remedy and the Change Control Board.

News Items

- Proceeding enterprise software solution
  - OCTO uses consortium funds to buy a sufficient number of licenses and makes them available in a central pool and make them available to agencies.
  - Use is monitored and additional licenses added as needed
  - Agencies buy their own serve side licenses and mobile licenses
  - Agencies that already have significant pools of licenses may chose to be consolidated into the central pool.
    - If you do this, the Consortium account pays annual maintenance
    - Agencies in the process of migrating licenses
      - DCRA
      - FEMS
      - OTR
    - Agencies now encouraging the use of Citrix
      - MPD
      - DDOT

News Items

- MWCOG GIS Committee update
  - Urban Area Security Initiative Concept Paper requests $1M with focus on regional data development
  - Coordination needed with various software packages and standards are being evaluated to be the regional geospatial data clearinghouse and or map viewer.
    - MEGAN, EMA (ArcIMS Maryland)
    - WebEOC
    - CapStat
    - VR3 (ArcIMS Virginia)
    - Others

News Items

- National States Geographic Information Council Spring (NSGIC) Meeting
  - State level GIS coordinators meet in Annapolis next week.
  - Agenda items of interest to NSGIC and DC
    - Imagery for the nation
    - National addressing standards
    - Census Title XIII reform
    - Next generation E911
    - Federal Geospatial Enterprise Architecture

DC GIS Data Status Report

Mario Field

DC GIS Data Team Lead

Updated DC GIS Data

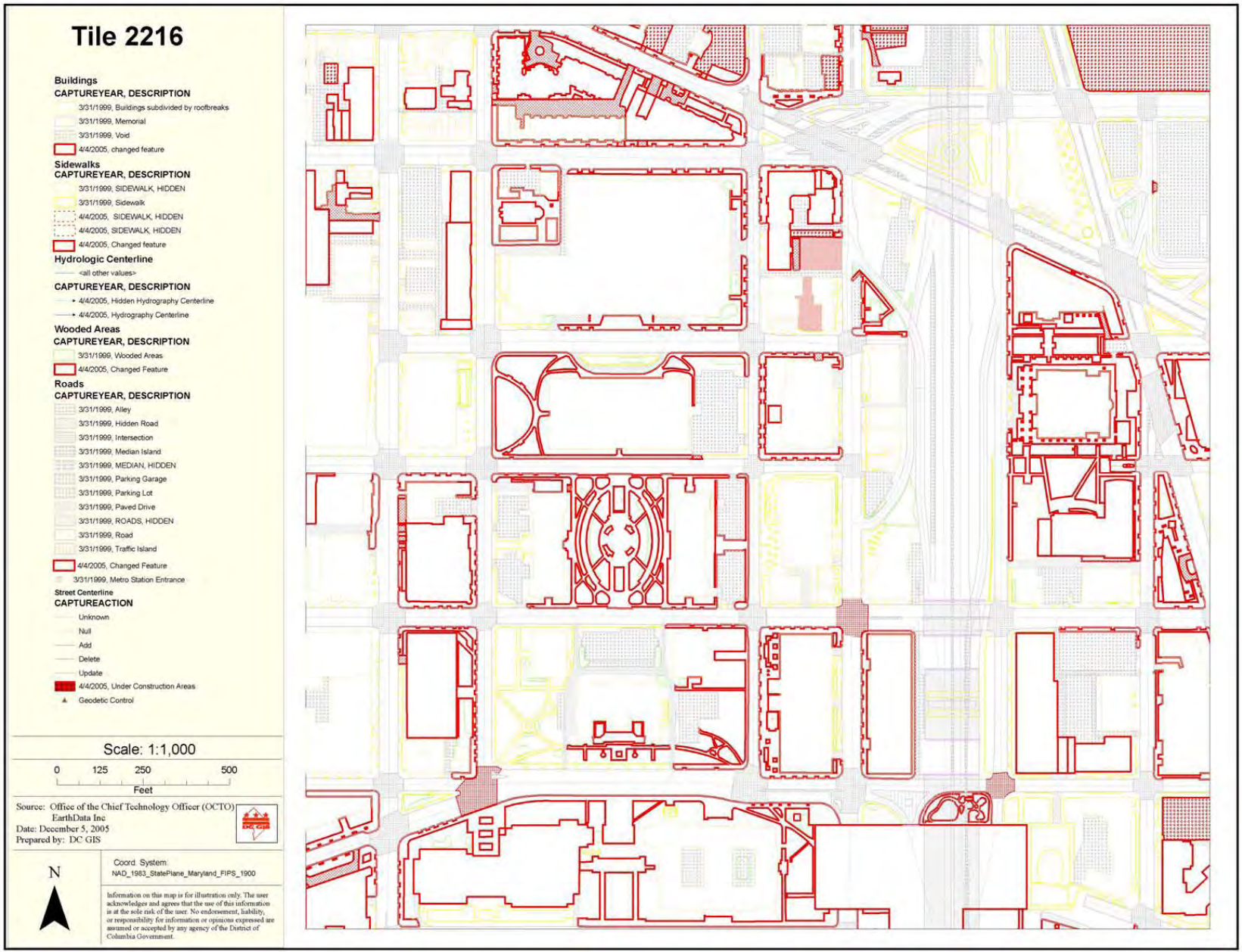
- Address Point (MAR)
- Air Emission
- CAMA
- Certificate Of Occupancy
- Digital Globe Satellite Imagery (10/05)
- Fire Alarm District
- GSA Federal Building
- Hazardous Waste
- Heliport
- Historic District
- Landmark
- Other Bus Line
- Other Bus Stop
- Overlay Zoning
- Owner Point
- Sale Point
- Toxic Release Inventory
- Water Discharge
- Zip Code
- Zoning

Current DC GIS Data Update

- **BIDPly**
- **Bike Lane**
- **Bike Trail**
- **Fire Station**
- **Signed Bike Route**
- **Digital Globe Satellite Imagery (2/06)**
- **Fire Alarm District**
- **Fire Battalion**
- **Homeless Service**
- **No Fly Zone**
- **Waterbody**

➢ **April 2006 publication**

Planimetric Data Update



ESRI National Data

- **70 Feature Classes**
  - **Boundary**
  - **Census**
  - **Landmark**
  - **Recreation**
  - **Transportation**
  - **Water**
- **Layers not loaded yet:**
  - **Rivers**
  - **Census Block Centroids**
- **Available on Citrix: DC GIS Tool Bar**

DC GIS Bi-Annual Training Report

Tim Abdella

GeoSpatial Education Director

Objective

- Improve the quality and lower the cost of GeoSpatial Education provided by the District of Columbia to its personnel
- Fulfill DC GIS Service Line Mission
- Disseminate and Demystify GIS across DC Government

Meeting the Objective

From September 2005

Goal	Status
Custom Classes	Several courses written
CWD	3 continuing classes
Marketing	Literature & digital media
Web Site	Training page & Documentation
Online Training	Course material available
e-Newsletter	Sent Monthly
Student Registry	Framework in place
Doctors Office	Informal, something to improve
Semi-Annual Report	Presented today

Bi-Annual Review

- Internal Improvements of Central GIS
- Dissemination & Demystification of GIS
- Cooperative outreach with established DC Government training Institution (CWD)
- Training & User Guide documentation development
- Monthly DC GIS Education Newsletters
- Website development and maintenance

Improvements needed

- Class attendance
  - Intro classes full
  - Other classes suffer
  - “Managers” class should be considered Intro class
- Course material
  - Refined to reduce workload?
  - 25% finish, 50% complete most tasks, 25% left behind
- Students
  - Basic computer skills needed: (typing, mouse-ing, GUI interaction)
  - GIS is an Advanced IT, users need baseline skills

What more do we need to do?

Agency Support

- Education & Demonstration of Integrated GIS Technology to support established Business Process

- Development of custom applications & Training
  - DCEO – underway this month
  - DOH – momentum gaining
  - MPD – embracing Central repository
  - DCRA – establishing business process
  - OAG – symbiotic relationship
  - DDOT – Spotlight on next slide

Thank you: Tianpu Lang, Zhen Lo, Jennifer Mack, Patrick Nowlan & GIS Data Team

DDOT Spotlight

- Collaborative Integration
- Direct Connection to DDOT Data Repository
- Customized Citrix user Experience
- Focused Training planned
- Example model for other agencies

Demonstration

District Department of Transportation

6-Month Outlook

- VPM Maintenance Tool training – OTR
- MAR Maintenance Tool training – DCRA
- UFA Trees transactional System – DDOT
- DOH – Growing administration interest
- Outreach to NGO's (non-government organizations)
  - WMATA
  - WASA
  - Utilities
  - Vocational education
- Continued Improvements of support Infrastructure

Q&A

Timothy L Abdella

GeoSpatial Education Director

Office of the Chief Technology Officer

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716-308-0000 Cell

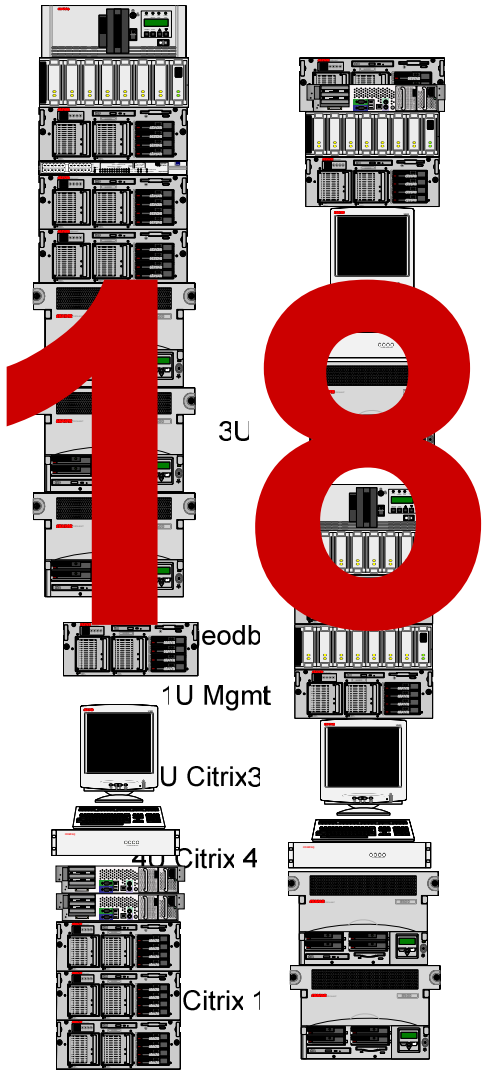
Thank you

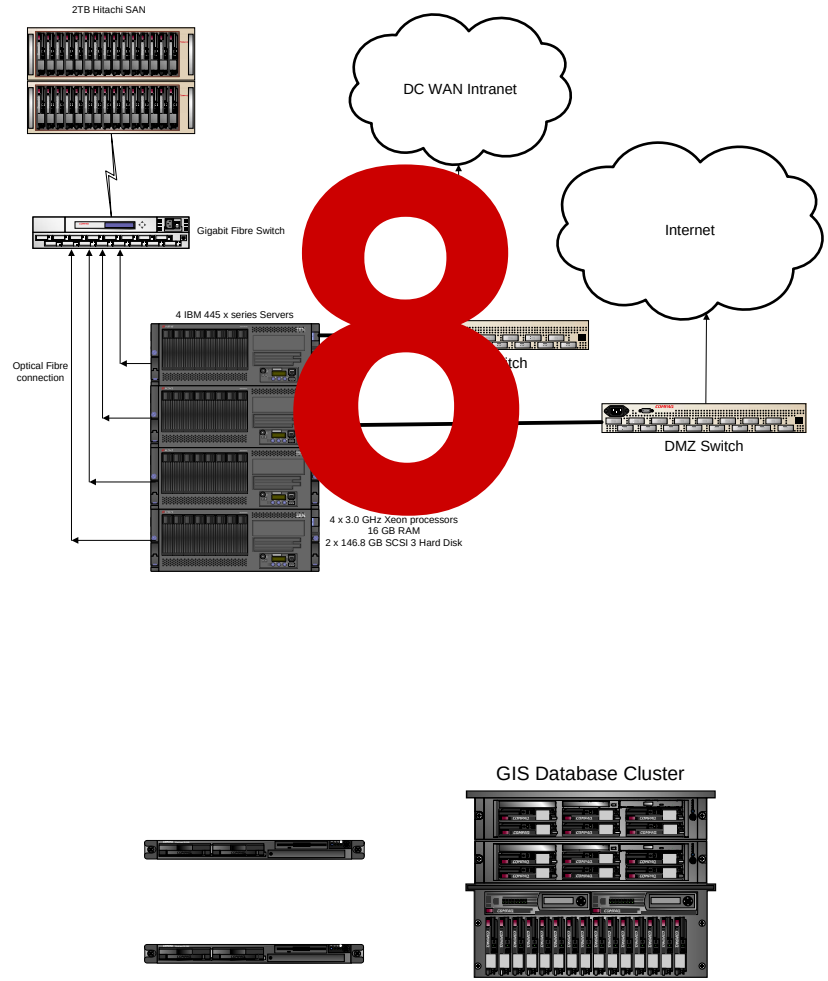
GIS Systems Consolidation Update

Zhen Lo

GIS Systems Lead

Server Consolidation





Overall View

- All Hardware has been procured and delivered
- Geodatabase cluster is in testing and design phase
- 2 of 4 ESX servers are racked and ready for deployment at a Datacenter
- Migration efforts have started for phase 1
- Portal development has kicked off
- WMS and WFS service has been deployed
- Metadata repository and service in development

Project Phases

- Phase 1
  - Consolidate and update Intranet Services
    - Citrix
    - Metadata service
    - Imagery
    - Geodatabase Cluster
- Phase 2
  - Consolidate and update Internet Services
  - DCGuide, WMS, WFS, MAR
- Phase 3
  - New Services (GIS Portal)
  - Agency Participation in enterprise data management
  - ArcServer applications, Common GIS services

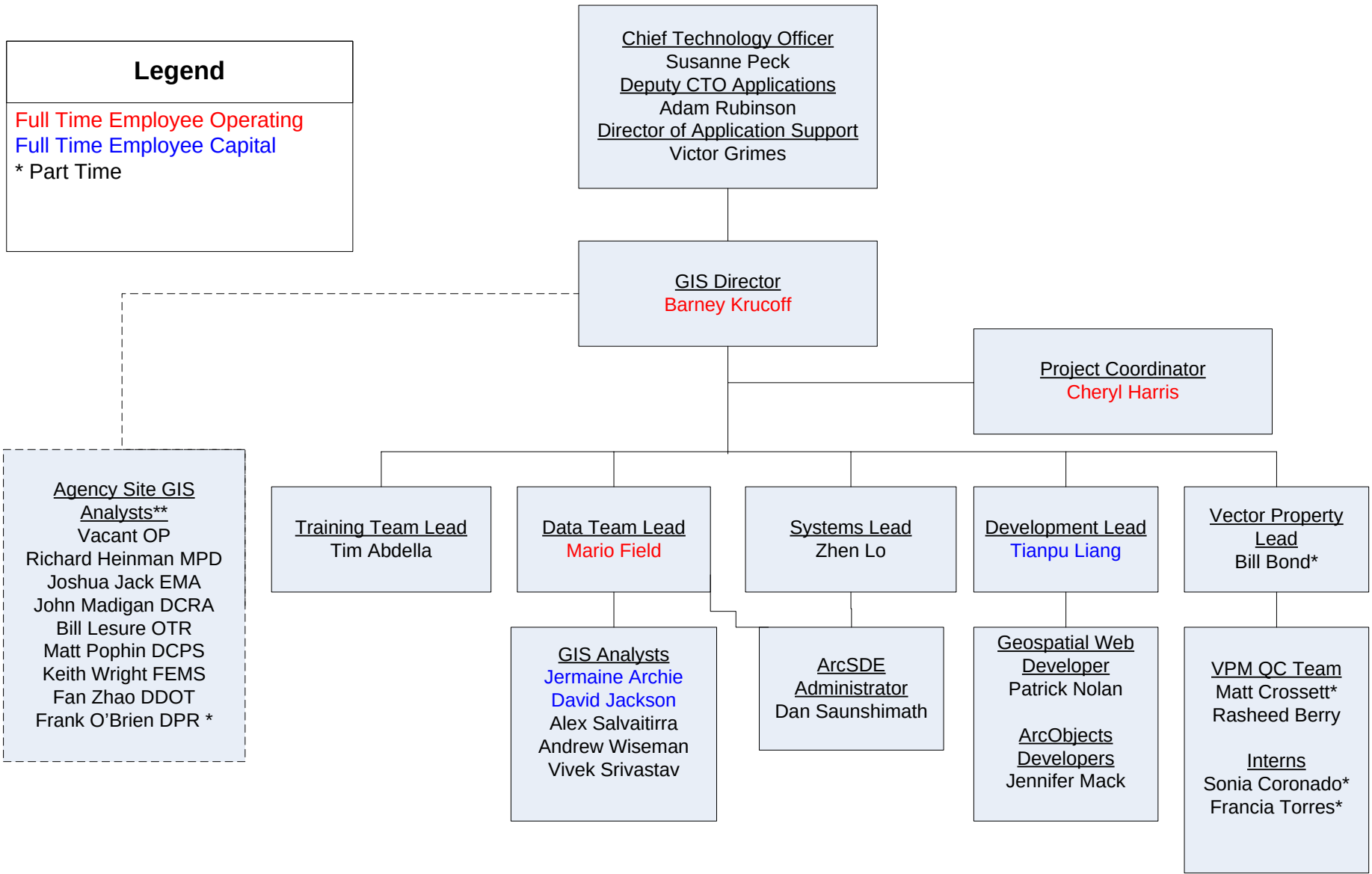
Phase 1 (April 1st)

- **Citrix**
  - Drastic increase in performance
  - 50-100 megabytes of dedicated space under each user profile
  - Deployment of ArcGIS 9.1 SP1 with supporting tools
- **Geodatabase**
  - Versioning and topology
  - High availability and performance
  - Rasters and imagery
  - Direct connect support for all ArcIMS 9.1
  - Metadata service (preliminary)
- **Active Directory**
  - Migration to 2003

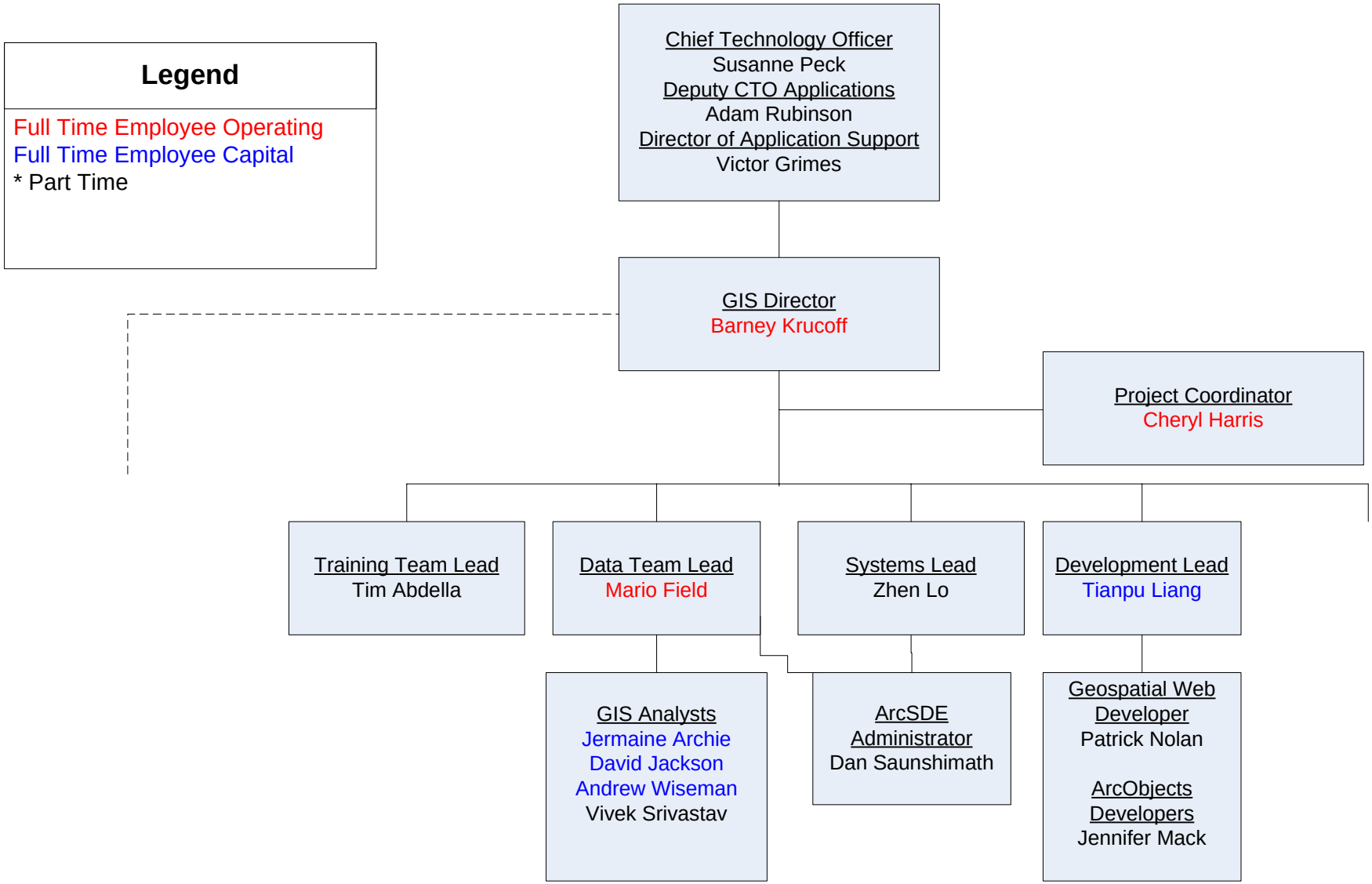
GIS Program Restructuring

Barney Krucoff

Current Organization



Sustainable Organization (Hopefully)



Revenue and Spending YTD

FY 2006 GIS Associated Revenue (10/1/05)		
N1602B cary over	$	620,933.59
N1602B load	$	1,000,000.00
ZA143C carry over	$	980,672.00
ZA143C load	$	1,500,000.00
Total	**$**	**4,101,605.59**
FY 2006 GIS Obligations		
OCTO PMO for 2006 & 2007 (16%)*	$	(656,256.89)
OCTO Reserve For Next Year (50%-350000)*	$	(1,700,802.80)
Capital FTEs (several non-GIS)	$	(680,000.00)
Capital Obligations YTD	$	(545,880.00)
Total	**$**	**(3,582,939.69)**
Maximum Available To Spend Rest of 2006	**$**	**518,665.90**
*OCTO Sustainability Budget Policy		

Spending Remainder of 2006

Procurement Name	Commodity Type	RQ# (if Established)	Estimated Value of Action	Keep	Cost	$ 518,655.00
Multiple GIS Analysts	Augmentation	RQ230821	$495,000	n	$ -	**$ 518,655.00**
Add Public Land to Vector Property Map	Service		$200,000	n	$ -	**$ 518,655.00**
ESRI Software Maintenance	Software		$120,000	y	$ 120,000.00	**$ 398,655.00**
OTR GIS Suppoort	Augmentation	RQ190203	$118,482	n	$ -	**$ 398,655.00**
ArcObjects Developer 2	Augmentation	RQ208025	$95,000	y	$ 95,000.00	**$ 303,655.00**
ArcObjects Developer 1	Augmentation	RQ208019	$80,000	y	$ 80,000.00	**$ 223,655.00**
Business Data for DC Guide	Service	RQ247041	$80,000	n	$ -	**$ 223,655.00**
GIS Systems Lead	Augmentation	RQ245272	$80,000	Y	$ 80,000.00	**$ 143,655.00**
Additional Bridges to soften cuts	Augmentation		$75,000	n	$ -	**$ 143,655.00**
Oracle Software Maintenance	Software		$30,000	y	$ 30,000.00	**$ 113,655.00**
Operational Stuff	Service		$60,000	n	$ -	**$ 113,655.00**
Master Address Repository Maint	Augmentation		$60,000	y	$ 60,000.00	**$ 53,655.00**
Zhen Lo Bridge	Augmentation		$25,000	y	$ 25,000.00	**$ 28,655.00**
Regional Data	Data		$15,000	n	$ -	**$ 28,655.00**
Citrix Software Maintenance	Software		$10,000	y	$ 10,000.00	**$ 18,655.00**
Satellite Imagery	Service		$10,000	y	$ 10,000.00	**$ 8,655.00**
Routing Data	Data		$10,000	y	$ 10,000.00	**$ (1,345.00)**
			$1,563,482.00		$ 520,000.00	

Projects we can still finish

- Infrastructure Consolidation
- System Operations
- 2005 Planimetric Update
- MAR Maintenance
- Embed GIS on more agency web sites
- Training Program
- Smaller Data Sets Maintenance
- New data catalog and web services

- Vector Property Map (Transfer to DCRA)

What won't happen in 2007

- Onsite Agency Support
- New mapping in 20007
  - Orthos (with USGS)
  - Planimetric Update
  - Pictometry
  - Business data
  - Mobile Video
- Major Projects falling off the radar
  - Contour/Digital Terrain Model Upgrade
  - 3D Mapping
  - Adding units to the MAR
  - Underground Mapping (with DDOT)

The Memo

- Why
  - If they cut and no one complains, they cut the right thing.
  - We have a good story to tell
- What we hope gain
  - Recognition for what we have accomplished
  - Go on the record that DC GIS needs/deserves operating money
  - Head off a cumbersome charge back system
  - Maybe get some money

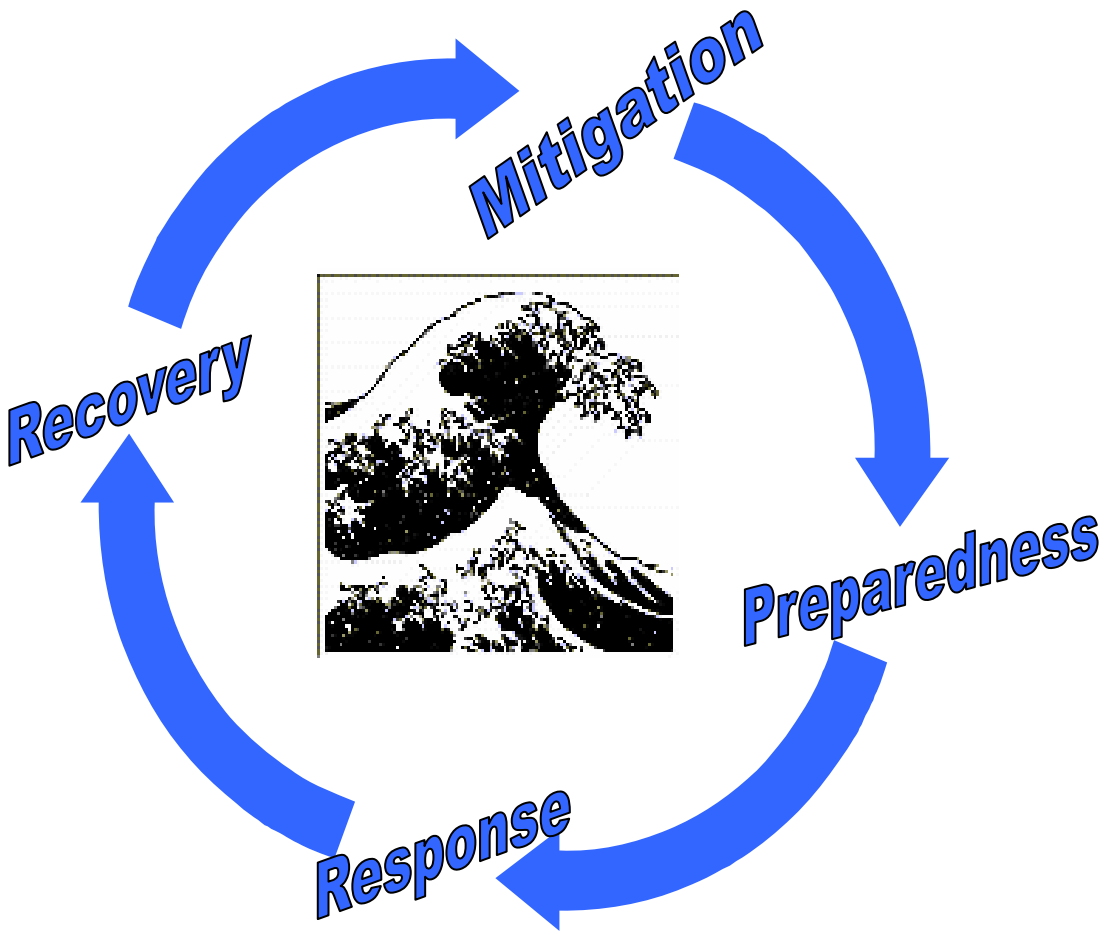
District of Columbia

Emergency Management Agency

Anthony A. Williams
Mayor

Barbara Childs-Pair
Director

DCEMA Participates in the 4 Phases of Comprehensive Emergency Management



The 15 District Emergency Support Functions (ESFs)

1. **Transportation**
   District Department of Transportation
2. **Communications**
   Office of the Chief Technology Officer
3. **Public Works and Engineering**
   Department of Public Works
4. **Fire Fighting**
   DC Fire and EMS Department
5. **Information and Planning**
   Emergency Management Agency
6. **Mass Care**
   Department of Human Services
7. **Resource Support**
   Office of Contracting and Procurement
8. **Health and Medical Services**
   Department of Health
9. **Urban Search and Rescue**
   DC Fire and EMS Department
10. **Hazardous Materials**
    DC Fire and EMS Department
11. **Food**
    Department of Human Services
12. **Energy**
    DC Energy Office
13. **Law Enforcement**
    Metropolitan Police Department
14. **Community and Media Relations**
    Office of Communications
15. **Donations and Volunteer Management**
    DC Commission on Community and National Service

DCEMA Mission Statement

The Mission of the *Emergency Management Agency*…

is to administer a comprehensive community-based emergency management program

in partnership with the residents and businesses of the District of Columbia

so that together we can reduce the loss to life and property and protect the environment.

EMA executes its mission in coordination with District, Regional, Federal and private sector agencies to meet new and continuing challenges

Regional and National Coordination

- **FRP**
- **DRP**
- **Virginia EOP**
- **Maryland EOP**

Federal

- **Regional Plan**
- **Terrorism Annex**
- **County Plans**

Maryland **District of Columbia** **Virginia**

DC's List of Top 18 Hazards

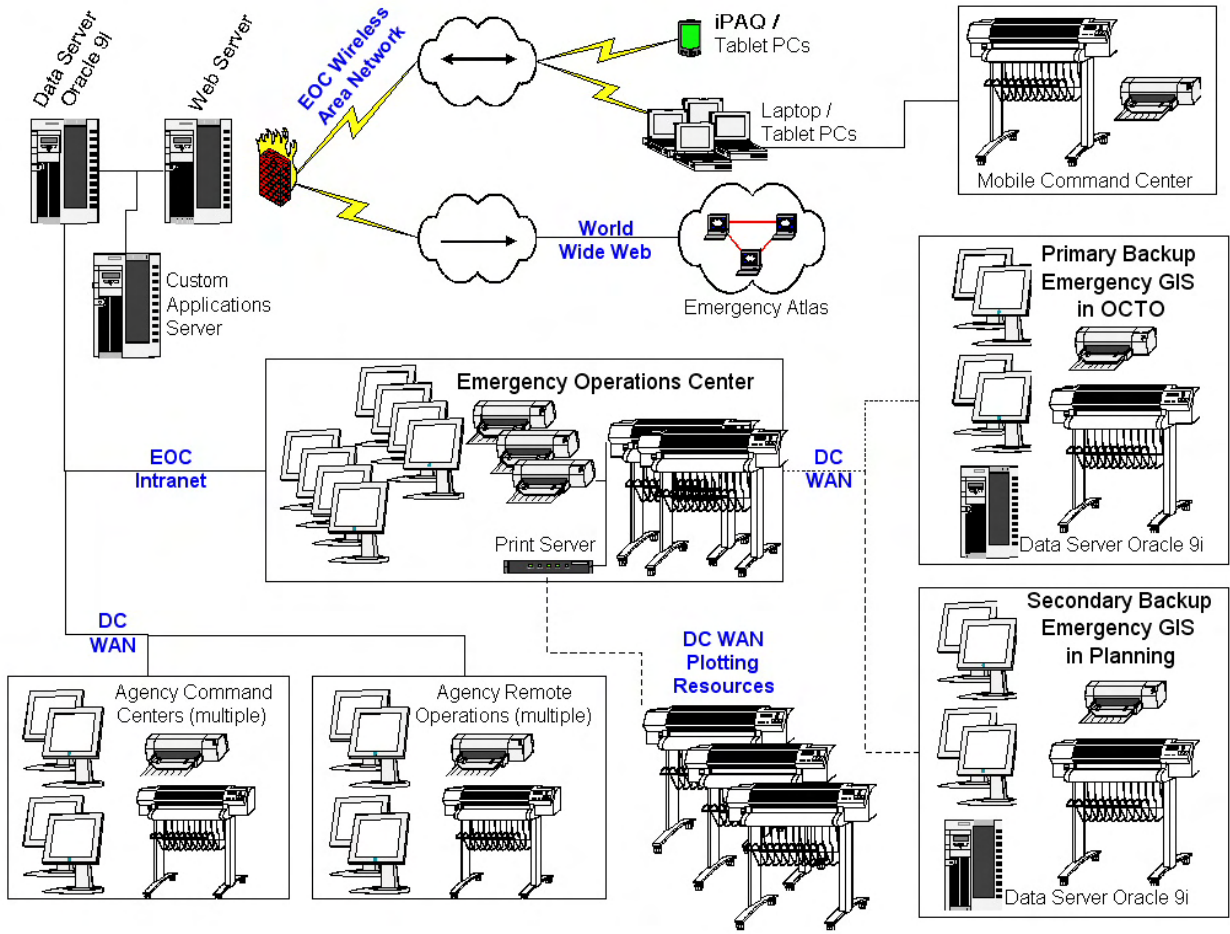
- Terrorism (WMD and Conventional)
- Winter Storms
- Urban Fires
- Transportation Accidents
- Special Events Demonstrations
- Urban Floods
- Water Supply Failure
- Critical Resources Shortages
- Utility and Power Failures

DC's List of Top 18 Hazards *(cont.)*

- Human Viruses and Epidemics
- Hurricanes
- Thunderstorms/Tornados
- Radiological and Hazardous Materials Incidents
- Prison/Jail Incidents
- Civil Disorders
- Explosions
- Earthquake
- Extreme Heat/Cold

GIS Architecture

- **Wholly contained within EMA**
- **Full Redundancy**
- **Field Deployable**
- **Remotely Accessible**



Objective

To save lives and protect property and the environment in the District of Columbia by focusing on the following emergency management priorities:

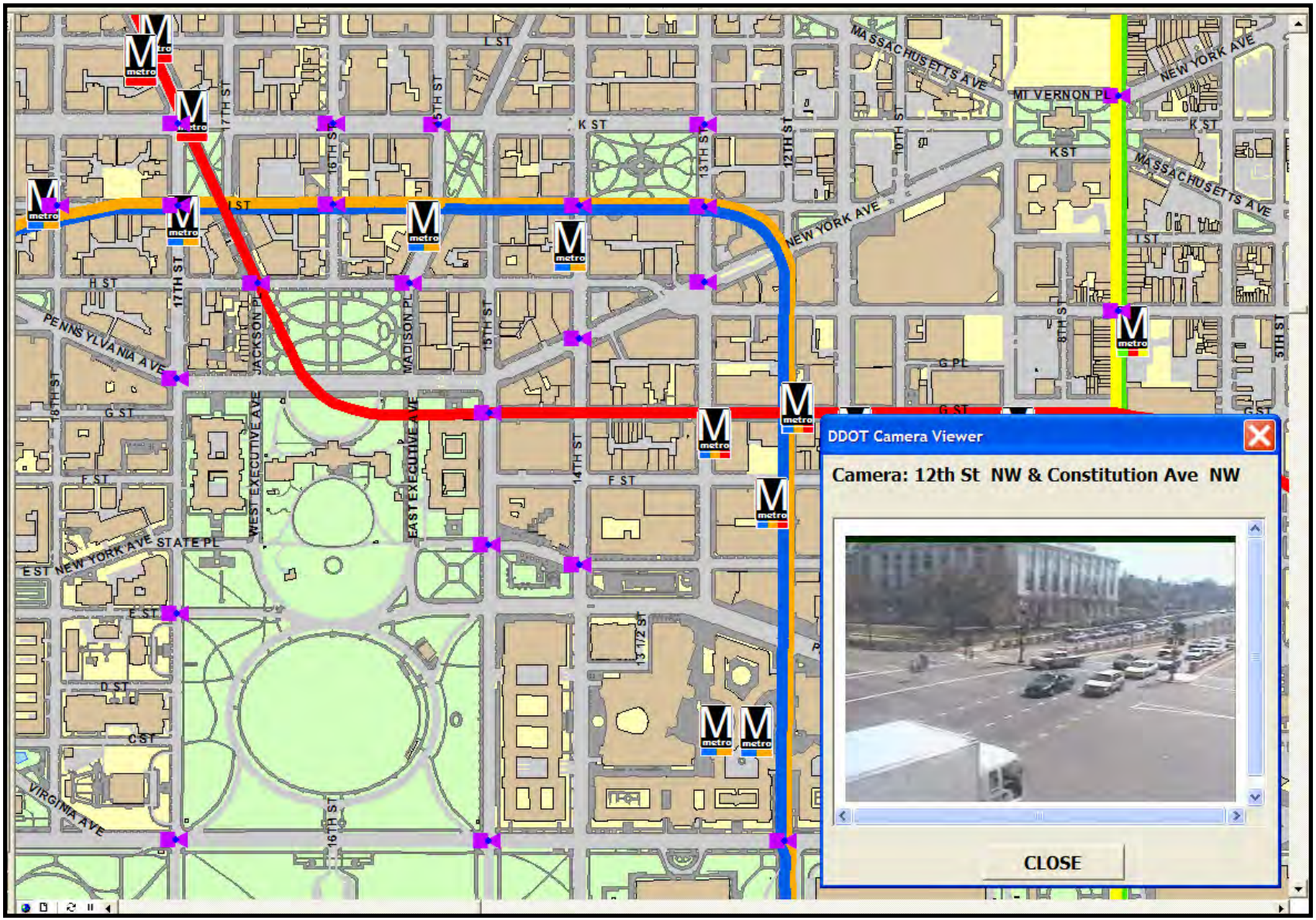
- Emergency Operations Center (EOC)
- Emergency Communications Center (ECC) Functions – 24 hour
- Planning and Training Functions
- Special Events and Public Information
- Mitigation and Recovery Services

Situational Awareness Support

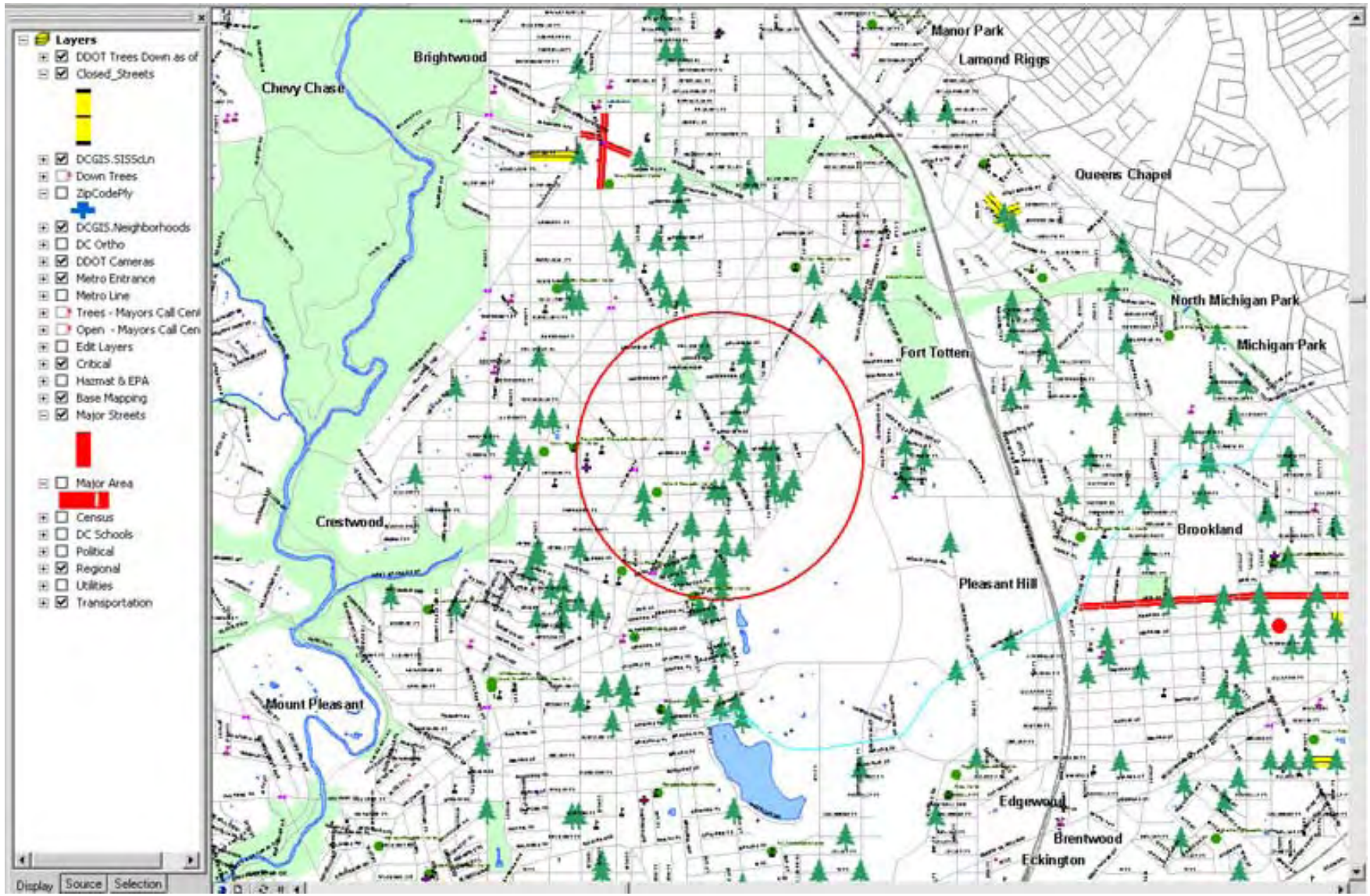
In situational awareness, real-time or near real-time information is key. GIS integrated with:

- Traffic Cameras
- Mayor's Call Center
- Weather
- Other Emergency Service Providers
- CIMS *

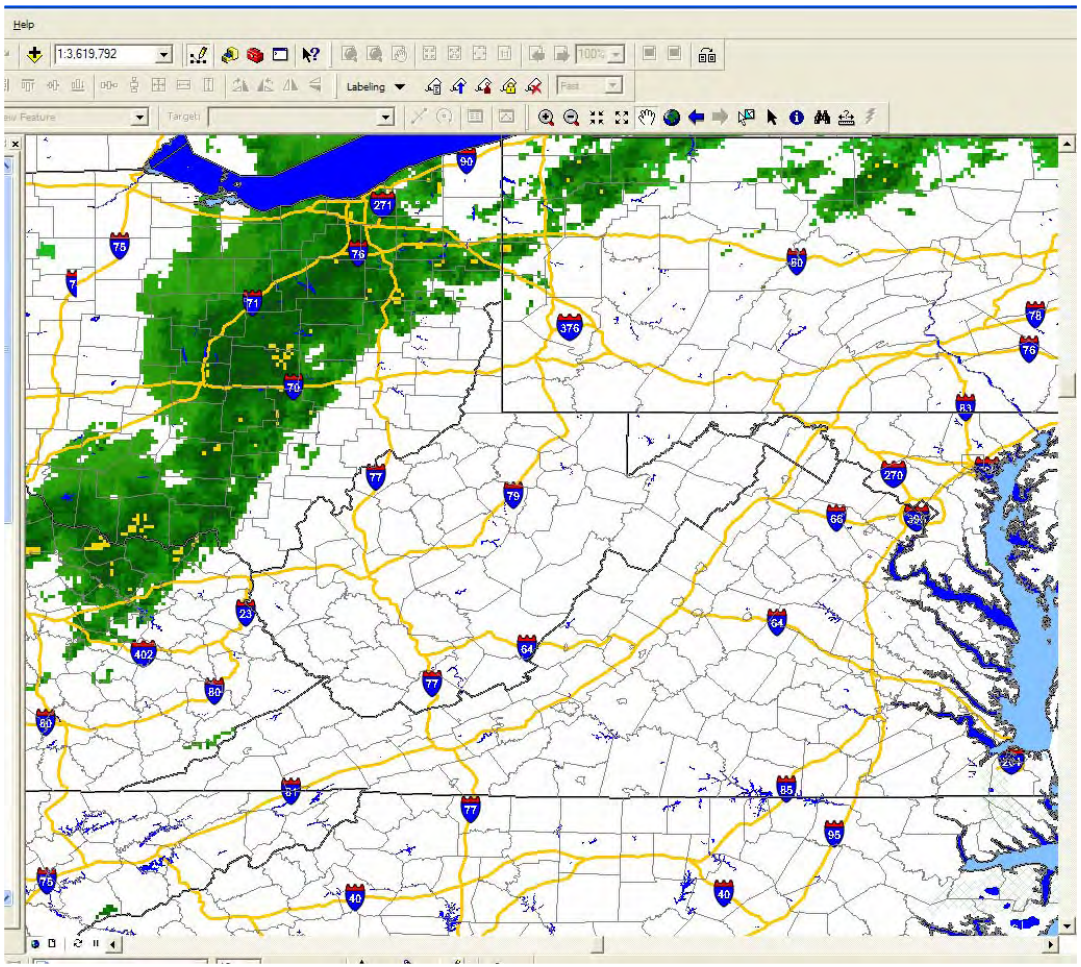
DDOT Traffic Cameras

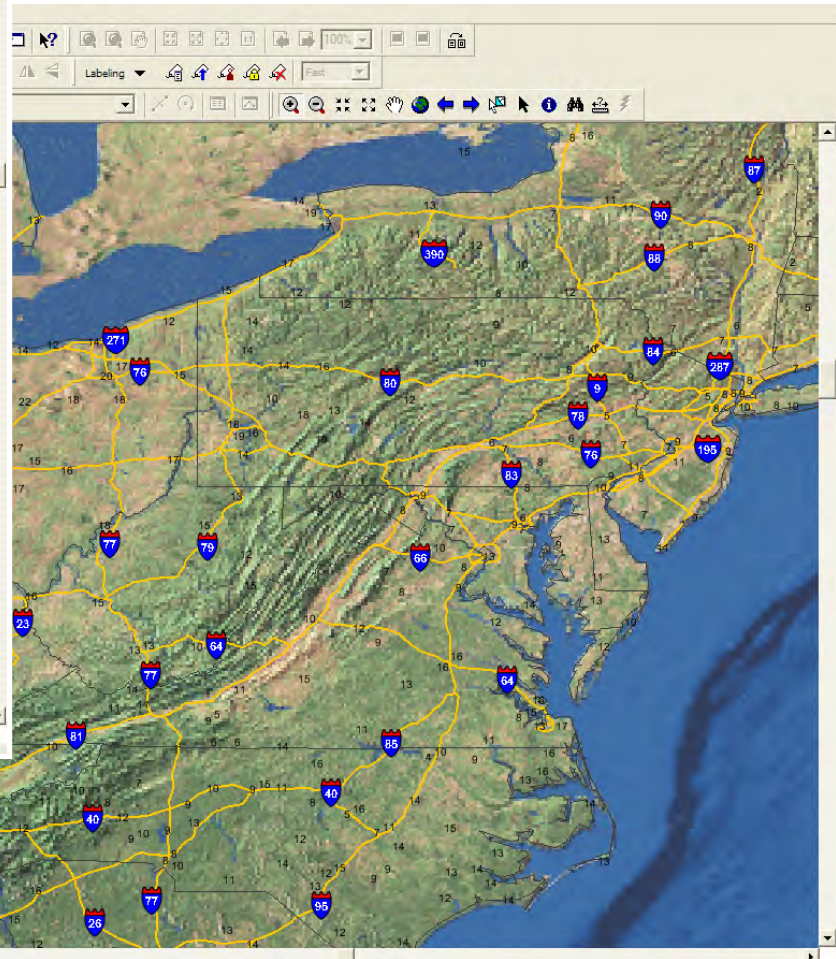


Mayor's Call Center

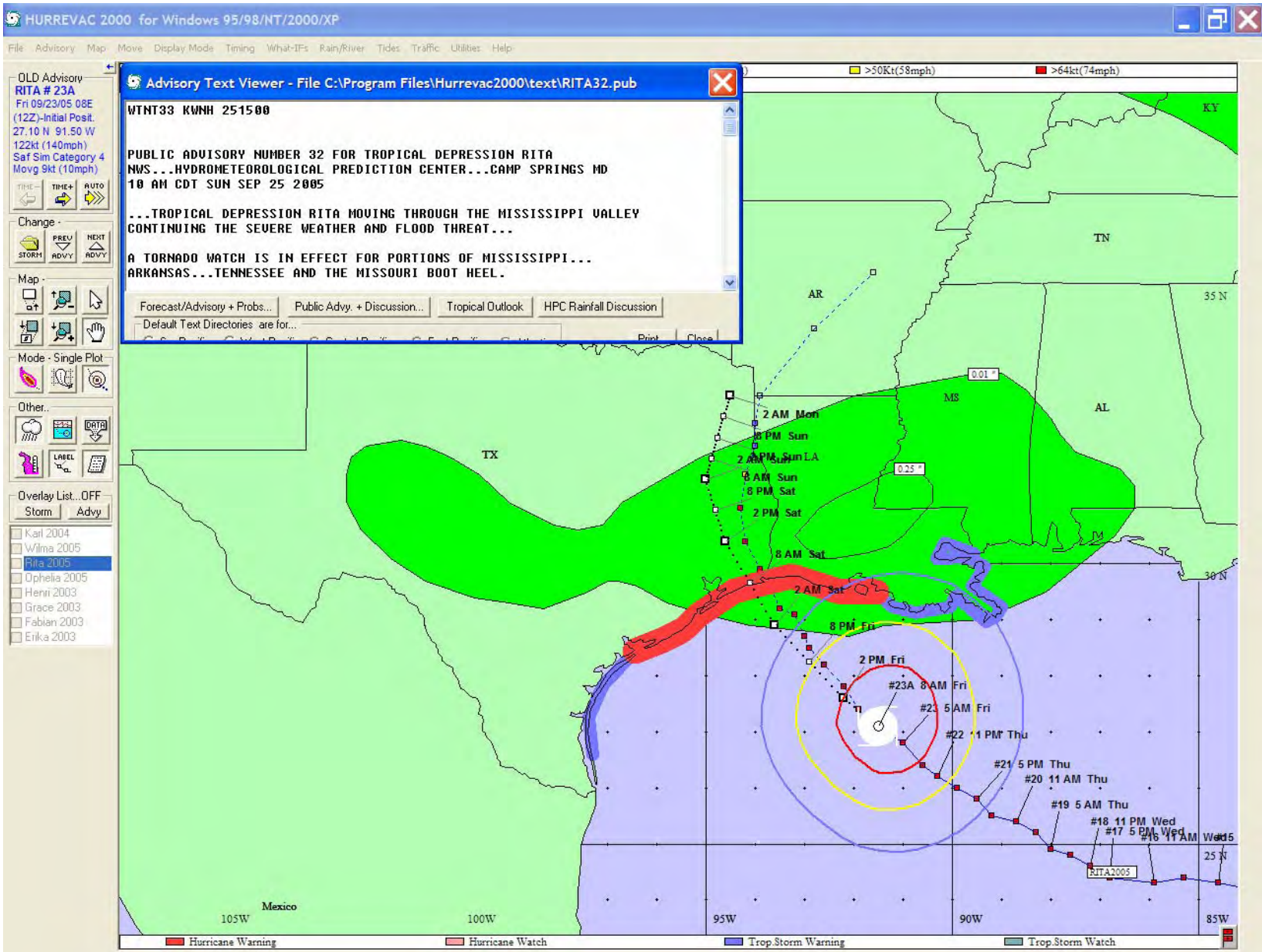


Weather

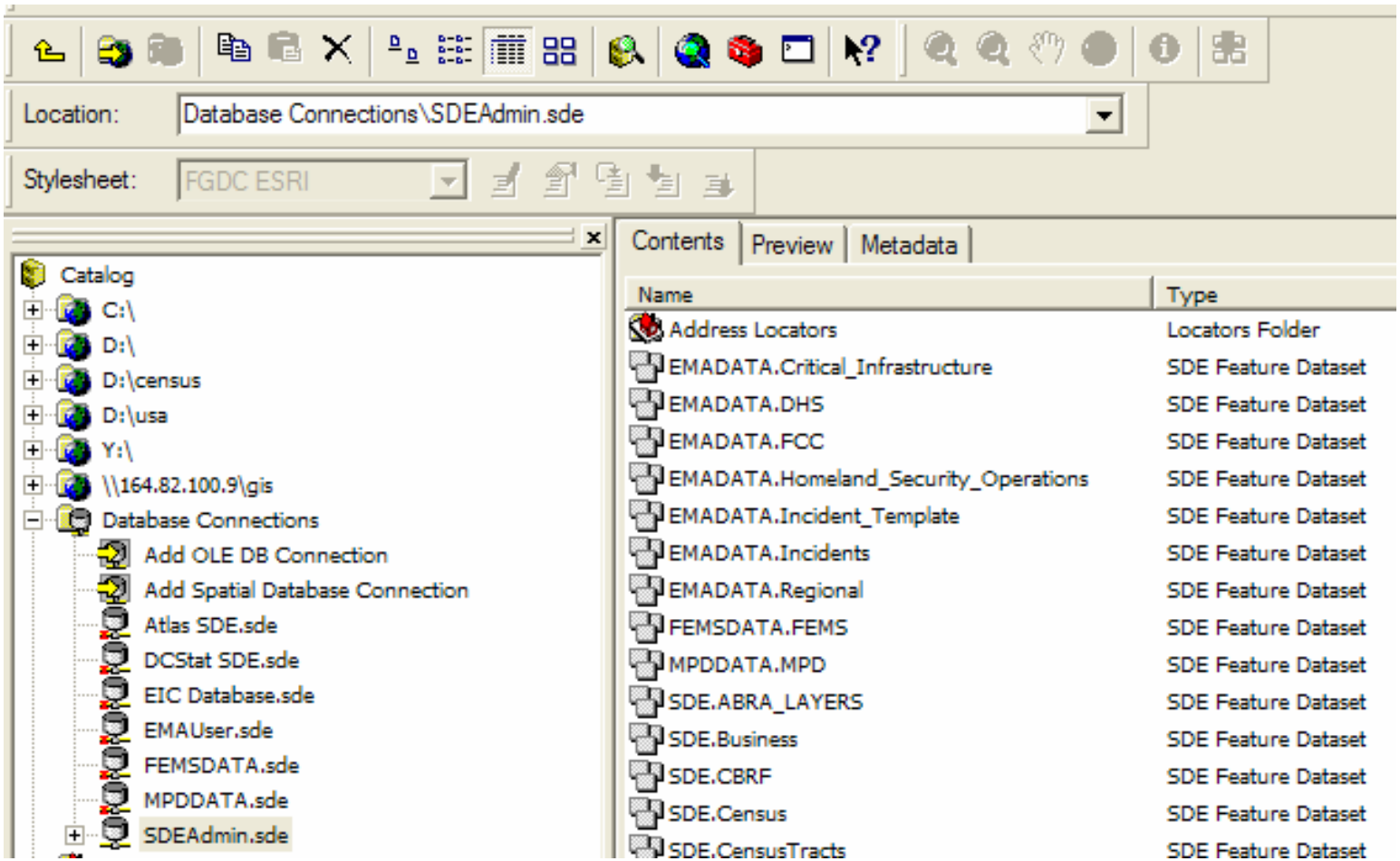




Weather cont.



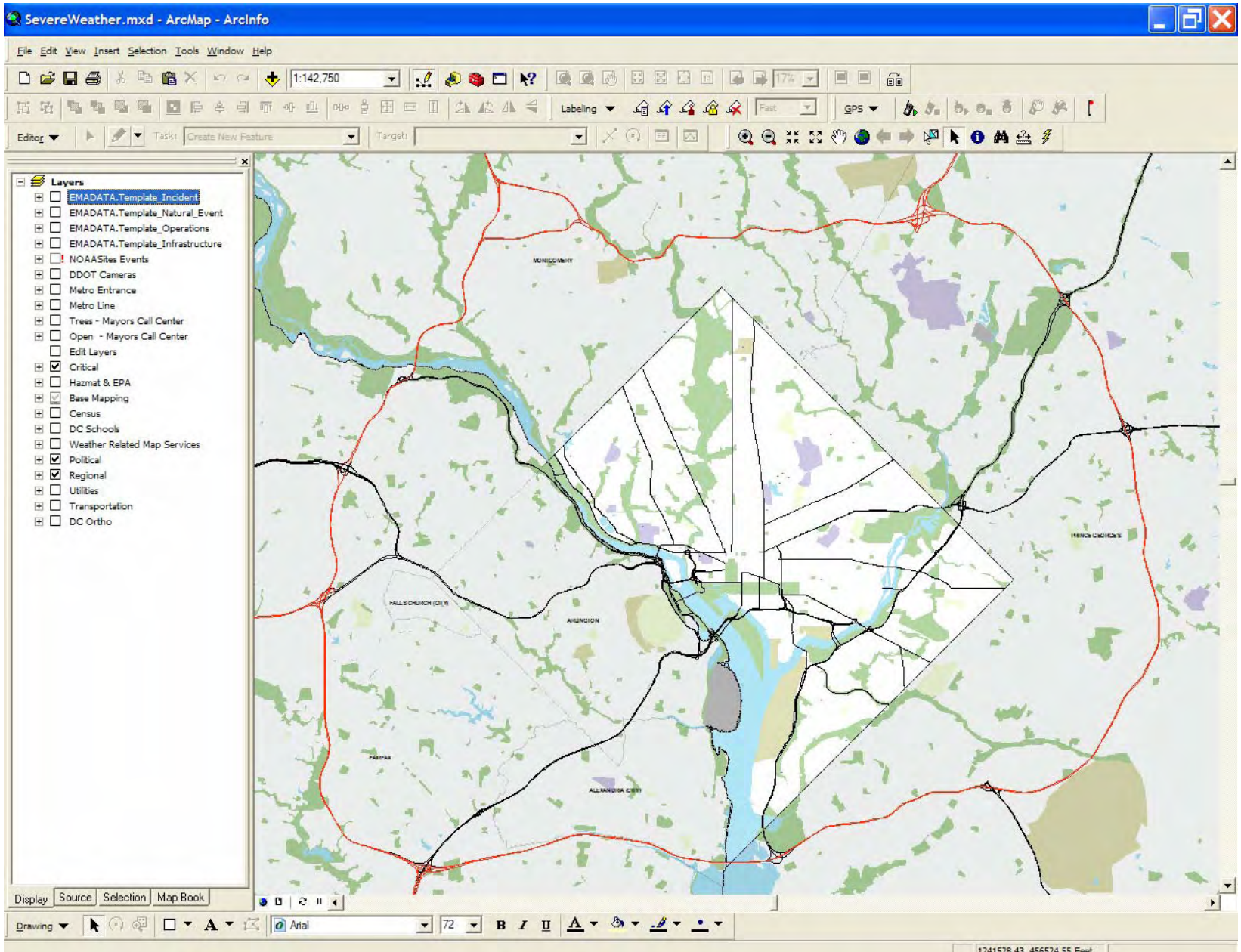
Other Emergency Service Providers



Emergency and Non-Emergency Incident Support

- Templates
- National Security Events
- Severe Weather
- Special Events
- Modeling
- WebEOC

Templates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EMADATA.Template_Natural_Event
EMADATA.Template_Operations
EMADATA.Template_Infrastructure
NOAASites Events
DDOT Cameras
Metro Entrance
Metro Line
Trees - Mayors Call Center
Open - Mayors Call Center
Edit Layers
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Hazmat & EPA
Base Mapping
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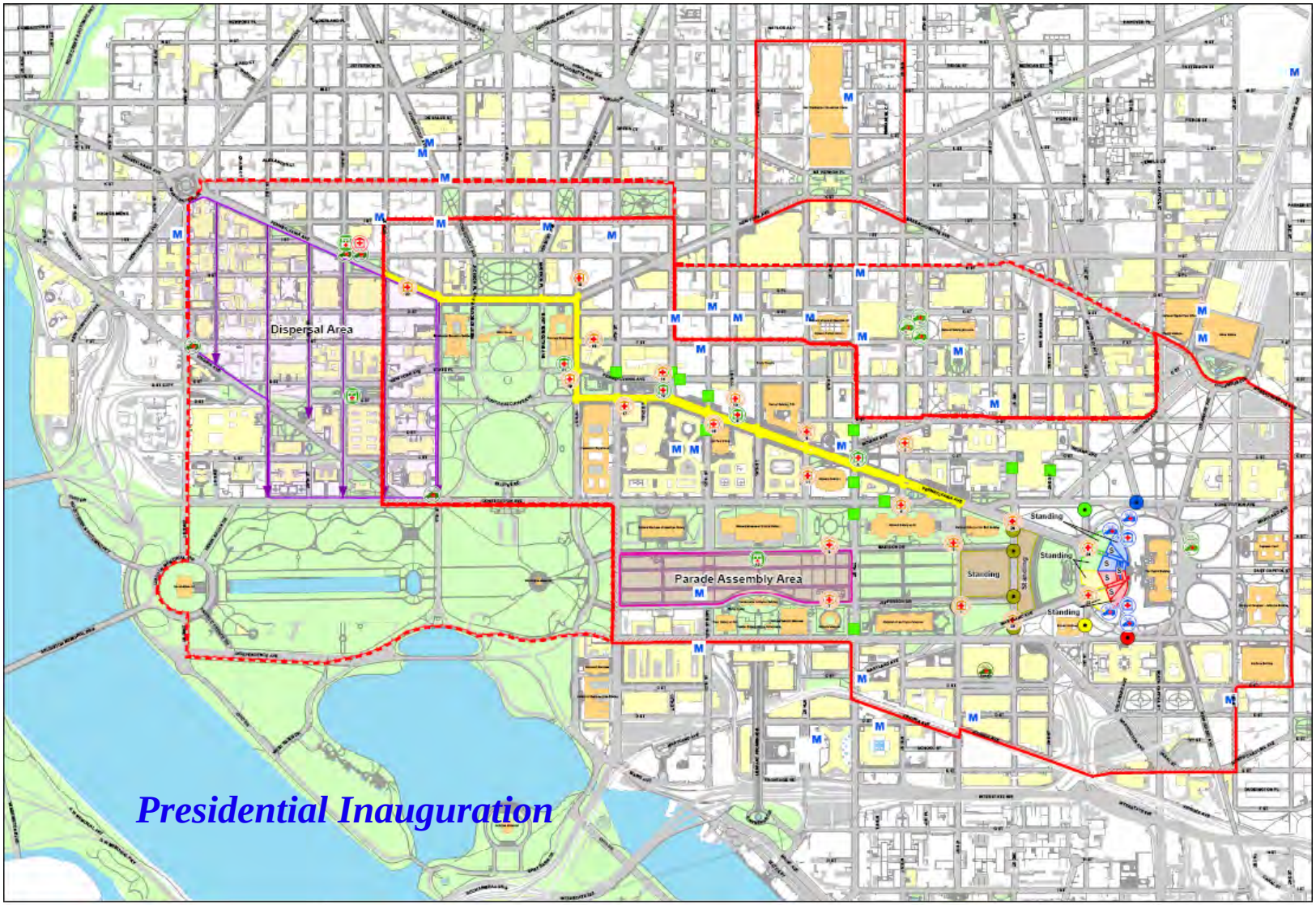
National Security Events



Presidential Inauguration Planning Map
District of Columbia
Emergency Management Agency
Coordinated Response Planning
Asset Location Reference (Proposed)

EMA

Revised: 1/18/2005

LEGEND

N

0 150 300 600 900 1,200 Feet

Map Produced by DCEMA-GIS
Production Date: Jan 18, 2005
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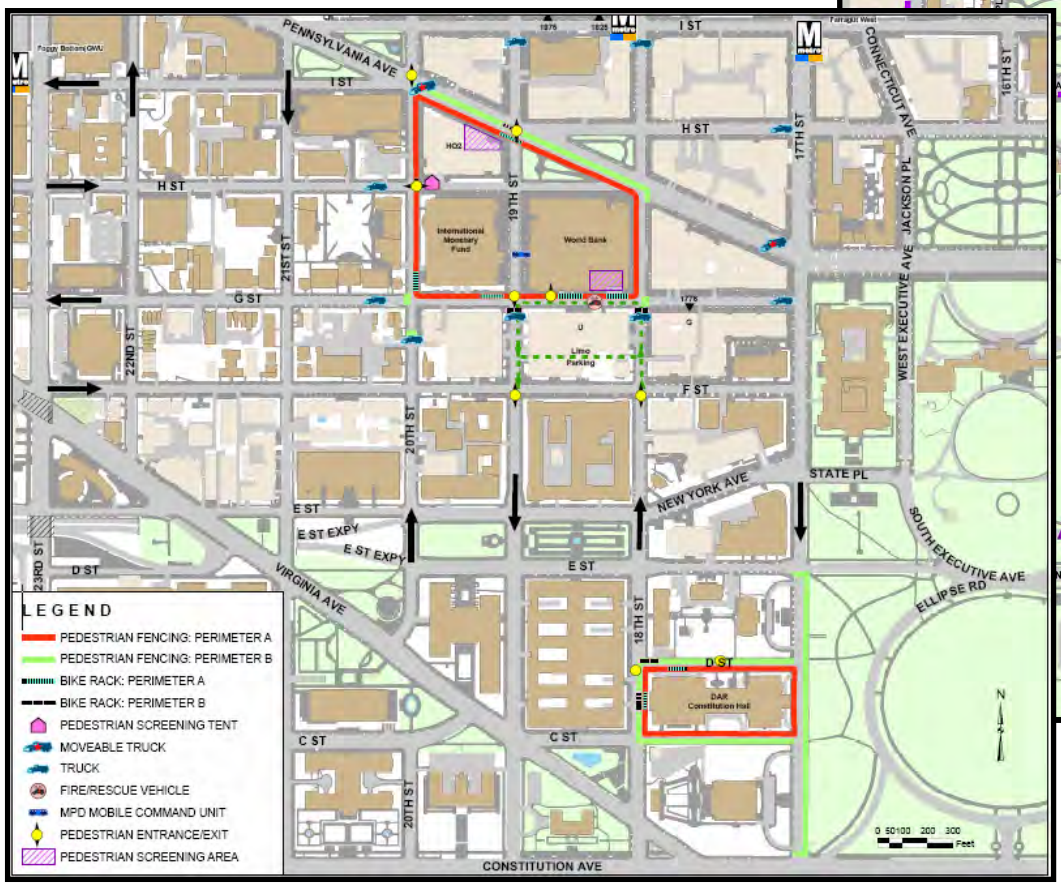
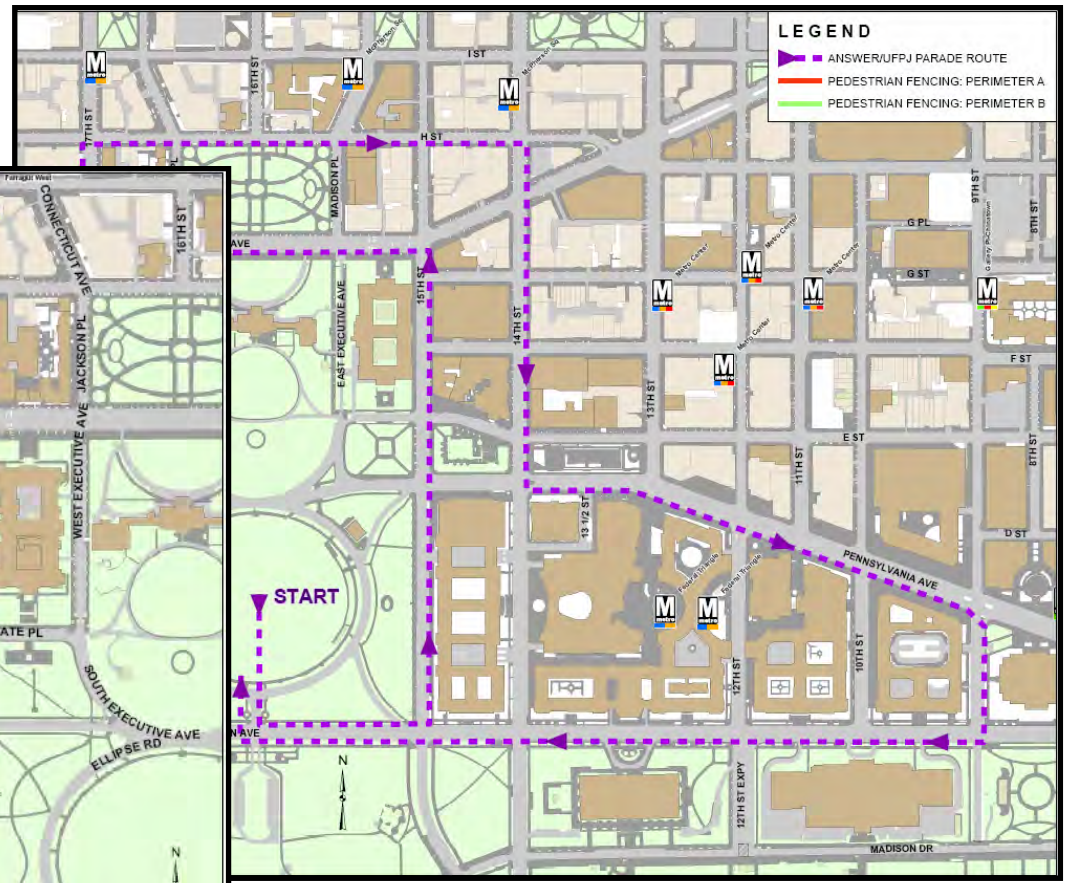
Scale: 1 inch = 300 feet

Emergency and Non-Emergency Incident Support

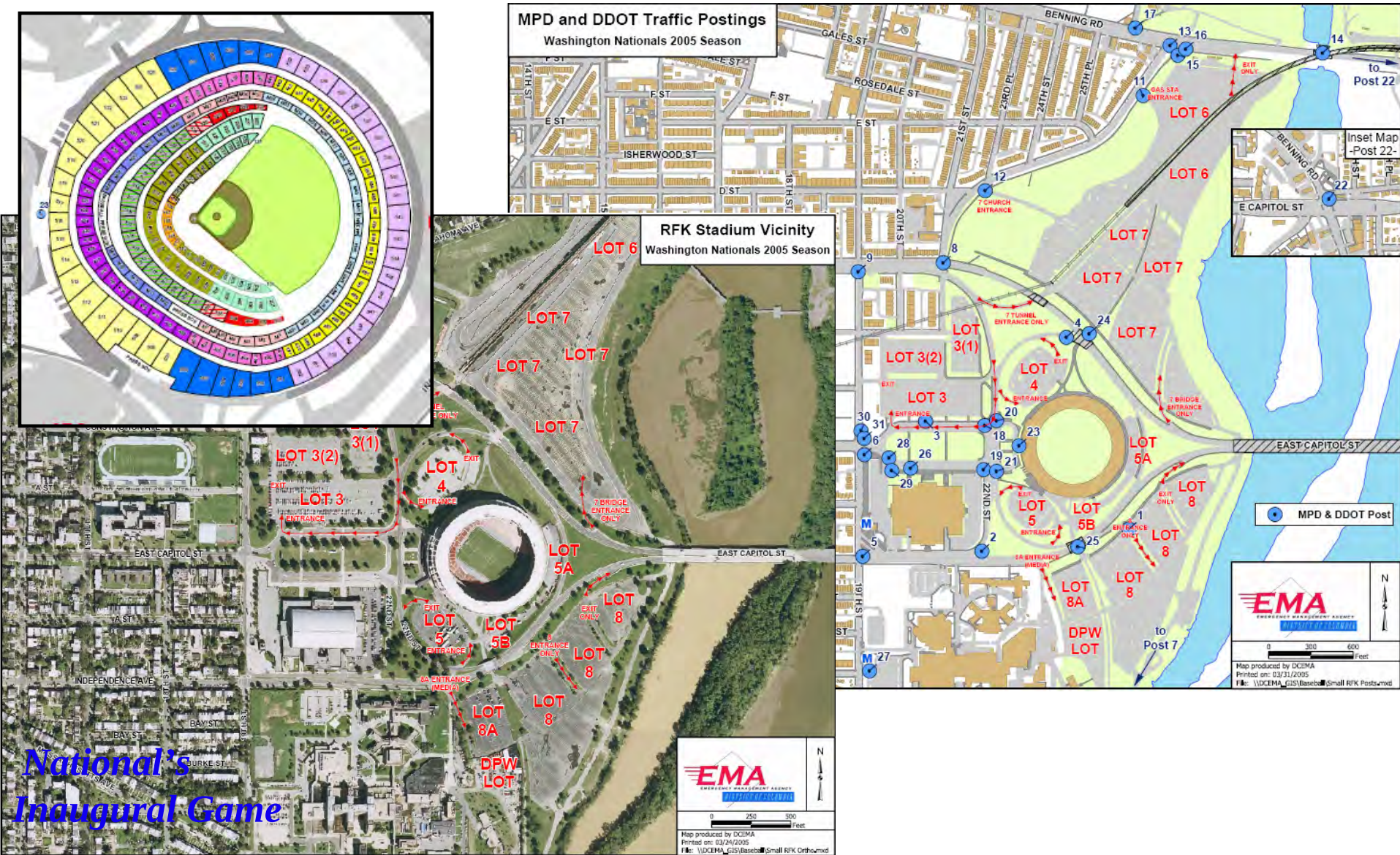
National Security Events





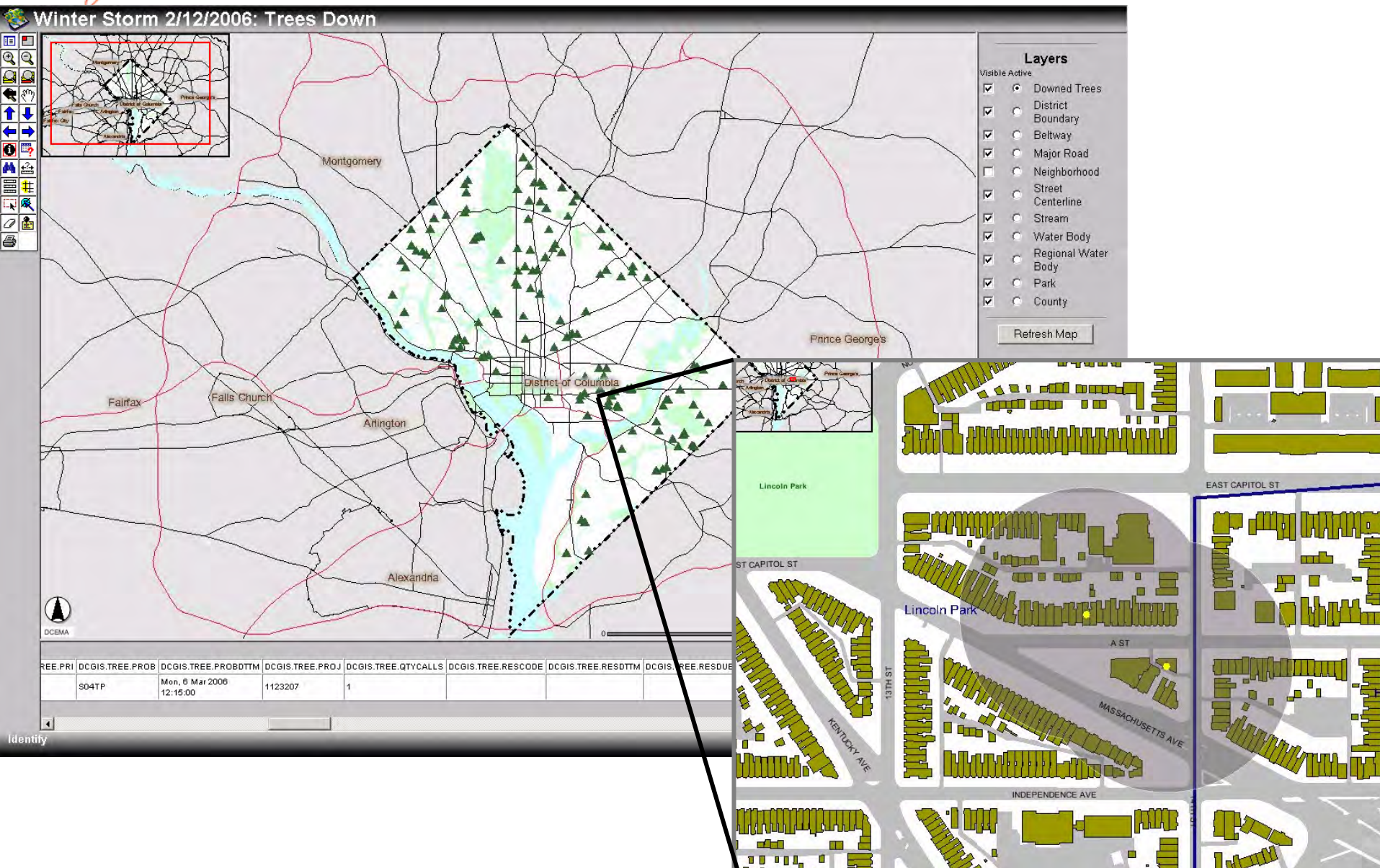
IMF

National Security Events



National's Inaugural Game

Severe Weather



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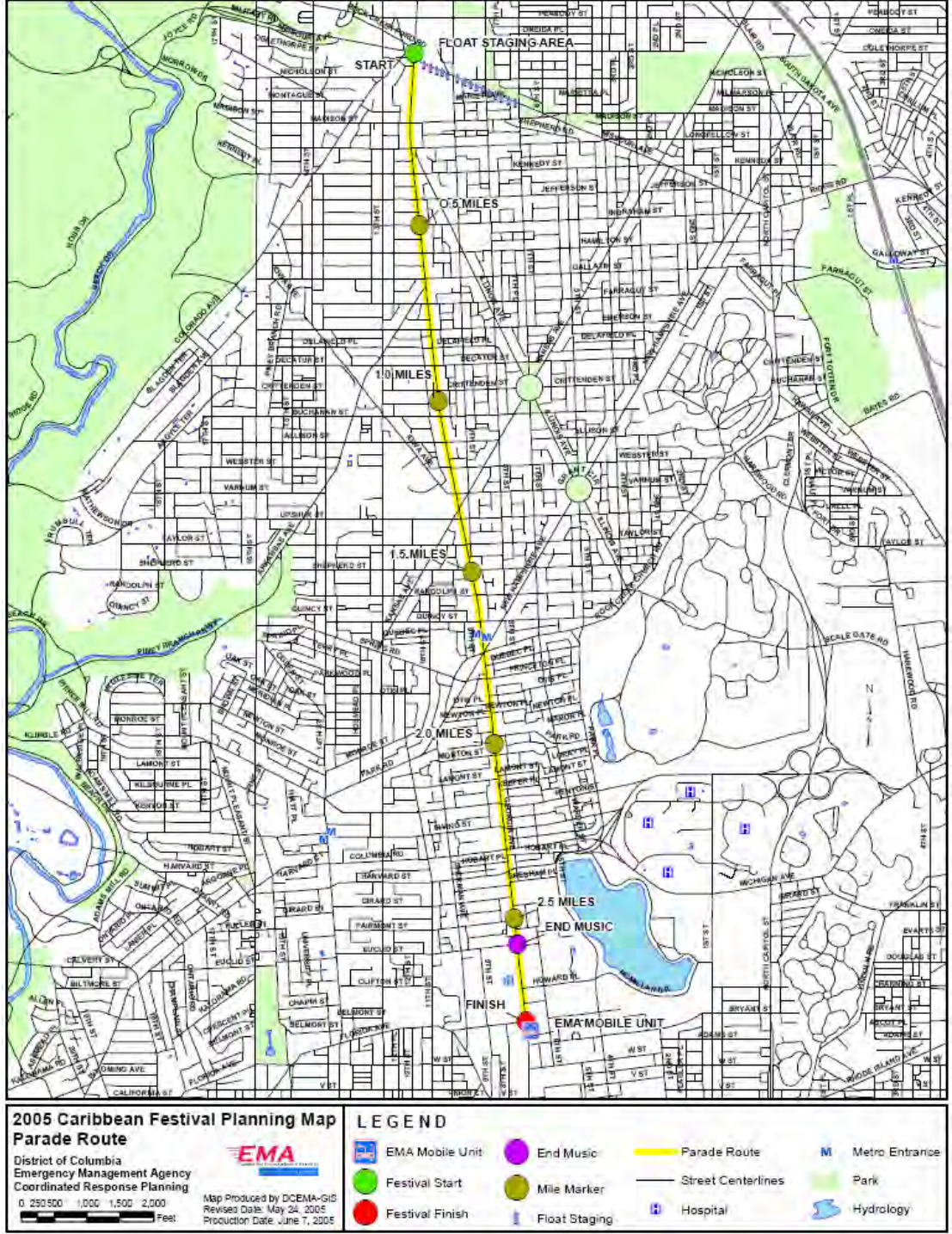
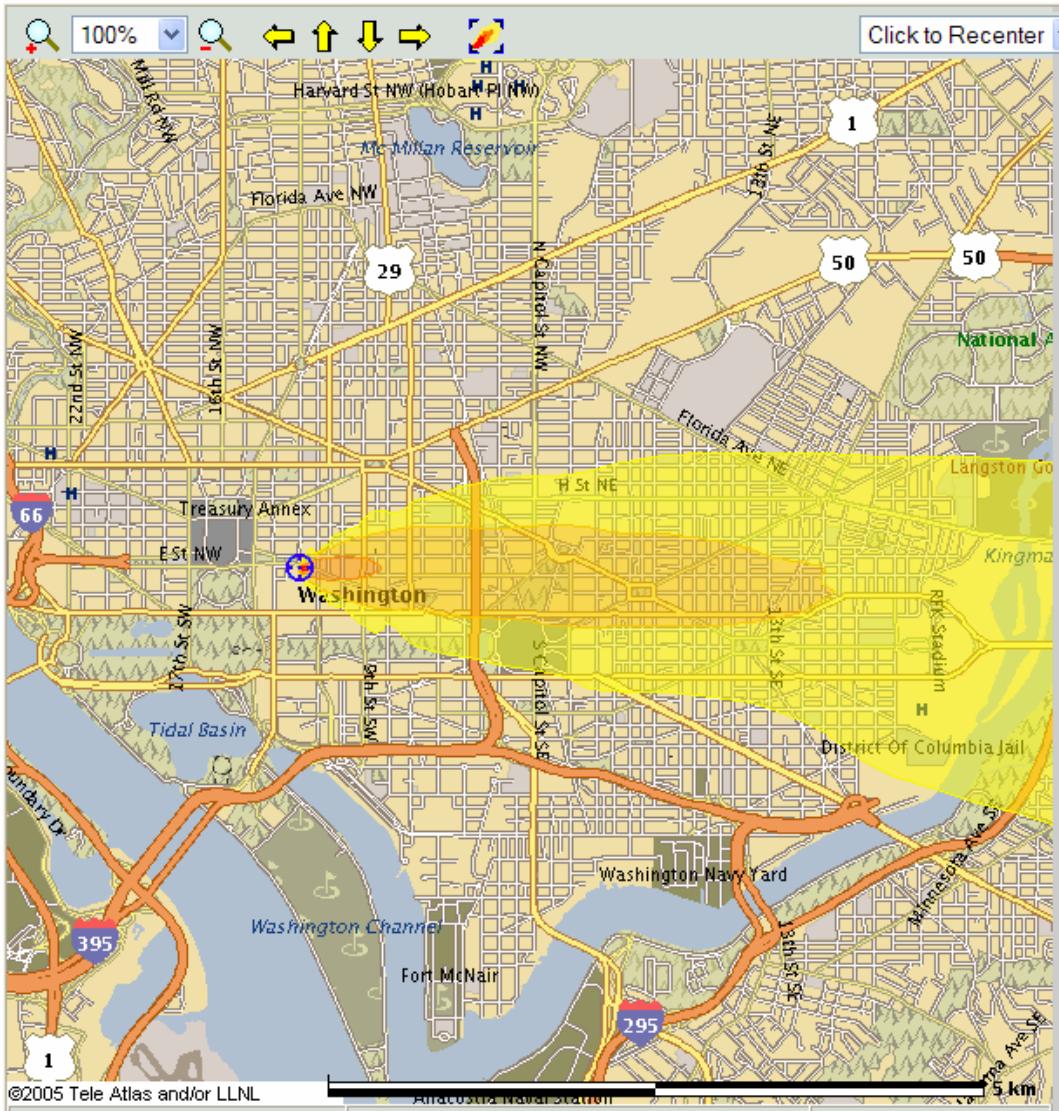
Parades & Festivals



Atmospheric Release Modeling
NARAC



MapSize: 8.21 km by 8.21 km | Map Center: (38.894268 N, 77.009377 W) | Scale: 13.679 m/pixel

Integ. Air Conc. of ANTHRAX-DRY

Acute (Short-Term) Effects

	(CFU-min/m3) Extent Area	Population Fatalities Casualties	Description
	>1.60E7 0.06km 0.001km2	392 340 *N/A*	>85% of the exposed population could receive a lethal dose.
	>530,000 0.6km 0.09km2	2,716 1,848 *N/A*	>50% of the exposed population could receive a lethal dose.
	>18,000 4.1km 2.5km2	59,118 17,001 *N/A*	>15% of the exposed population could receive a lethal dose.
	>620 28.7km 94.7km2	175,244 24,737 *N/A*	>2% of the exposed population could receive a lethal dose.

Note: Areas and counts in the table are cumulative. Casualties include both Fatal and Non-Fatal effects.

Layer Control: Map

Scale Bar: Lower Right

Center Lat: 38.894268

Center Lon: -77.009377

Scale *(m/pixel)*: 13.679

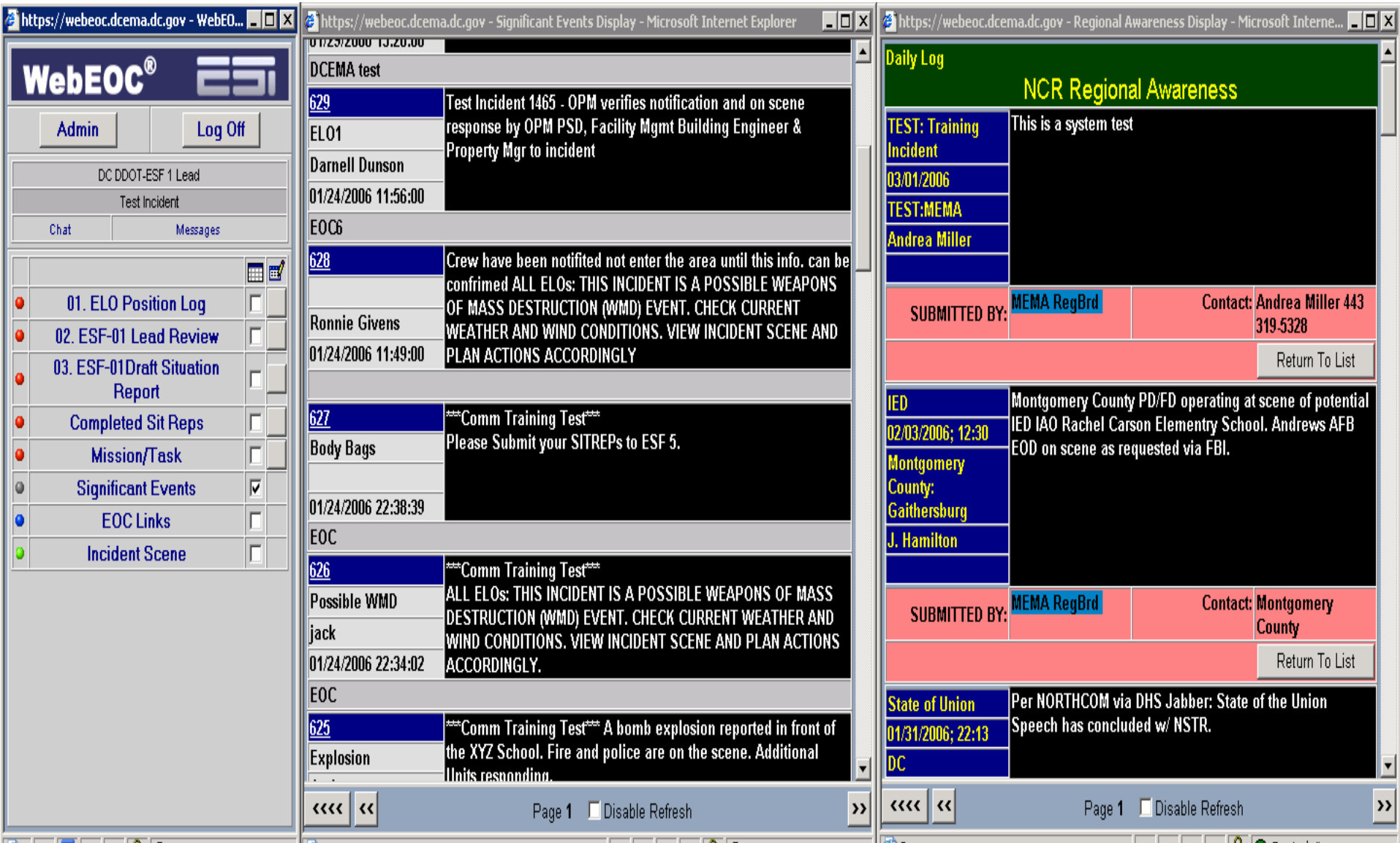
Image Width: 600

Image Height: 600

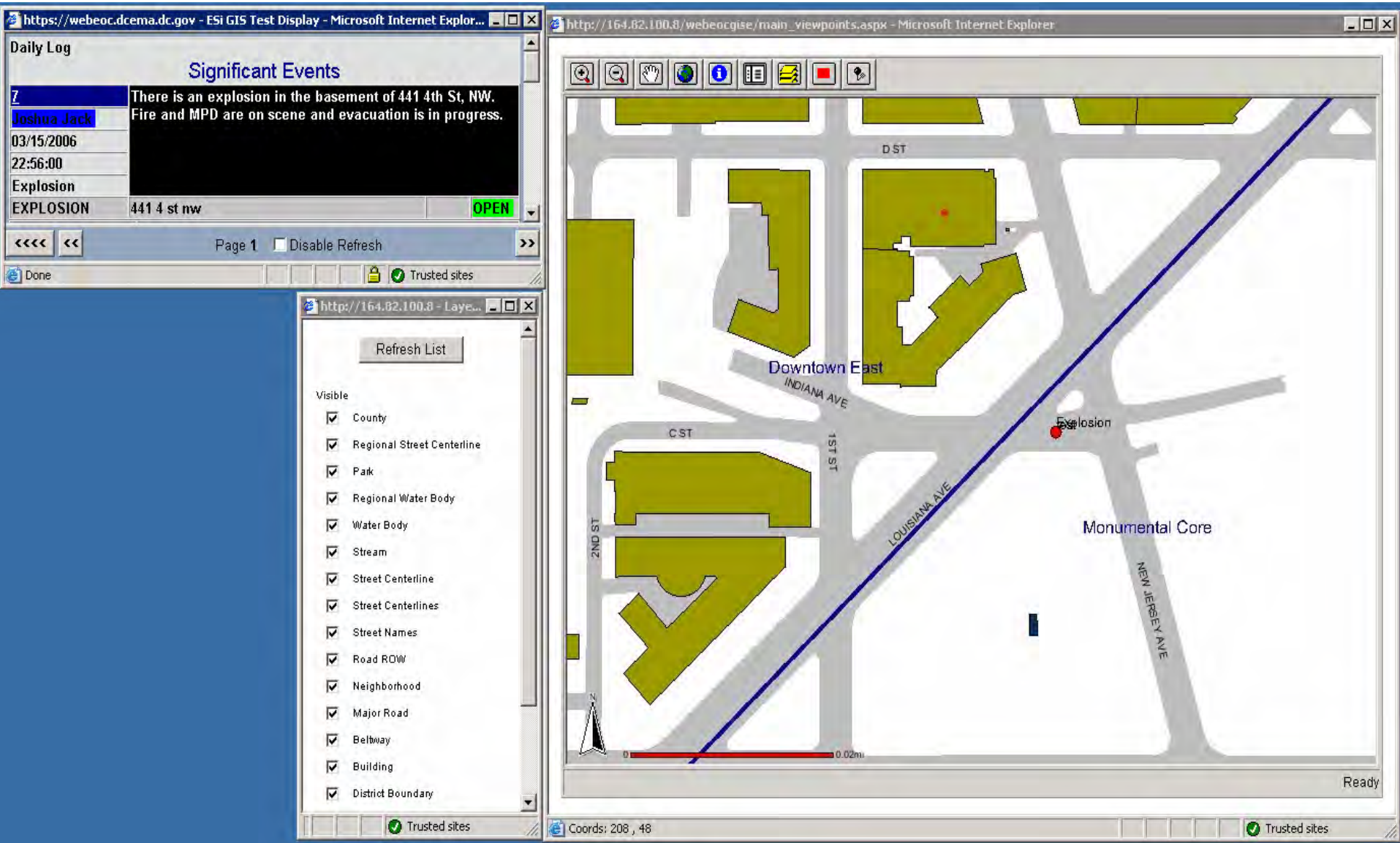
Map Selection: US

Update Map

WebEOC


https://webeoc.dcema.dc.gov - WebEO...
WebEOC®
Admin
Log Off
DC DDOT-ESF 1 Lead
Test Incident
Chat
Messages
01. ELO Position Log
02. ESF-01 Lead Review
03. ESF-01Draft Situation Report
Completed Sit Reps
Mission/Task
Significant Events
EOC Links
Incident Scene
https://webeoc.dcema.dc.gov - Significant Events Display - Microsoft Internet Explorer
DCEMA test
629
ELO1
Darnell Dunson
01/24/2006 11:56:00
Test Incident 1465 - OPM verifies notification and on scene response by OPM PSD, Facility Mgmt Building Engineer & Property Mgr to incident
EOC6
628
Ronnie Givens
01/24/2006 11:49:00
Crew have been notifited not enter the area until this info. can be confrimed ALL ELOs: THIS INCIDENT IS A POSSIBLE WEAPONS OF MASS DESTRUCTION (WMD) EVENT. CHECK CURRENT WEATHER AND WIND CONDITIONS. VIEW INCIDENT SCENE AND PLAN ACTIONS ACCORDINGLY
627
Body Bags
01/24/2006 22:38:39
Comm Training Test
Please Submit your SITREPs to ESF 5.
EOC
626
Possible WMD
jack
01/24/2006 22:34:02
Comm Training Test
ALL ELOs: THIS INCIDENT IS A POSSIBLE WEAPONS OF MASS DESTRUCTION (WMD) EVENT. CHECK CURRENT WEATHER AND WIND CONDITIONS. VIEW INCIDENT SCENE AND PLAN ACTIONS ACCORDINGLY.
EOC
625
Explosion
Comm Training Test A bomb explosion reported in front of the XYZ School. Fire and police are on the scene. Additional Units responding.
Page 1
Disable Refresh
https://webeoc.dcema.dc.gov - Regional Awareness Display - Microsoft Interne...
Daily Log
NCR Regional Awareness
TEST: Training Incident
03/01/2006
TEST:MEMA
Andrea Miller
This is a system test
SUBMITTED BY:
MEMA RegBrd
Contact:
Andrea Miller 443 319-5328
Return To List
IED
02/03/2006; 12:30
Montgomery County: Gaithersburg
J. Hamilton
Montgomery PD/FD operating at scene of potential IED IAO Rachel Carson Elementry School. Andrews AFB EOD on scene as requested via FBI.
SUBMITTED BY:
MEMA RegBrd
Contact:
Montgomery County
Return To List
State of Union
01/31/2006; 22:13
DC
Per NORTHCOM via DHS Jabber: State of the Union Speech has concluded w/ NSTR.
Page 1
Disable Refresh

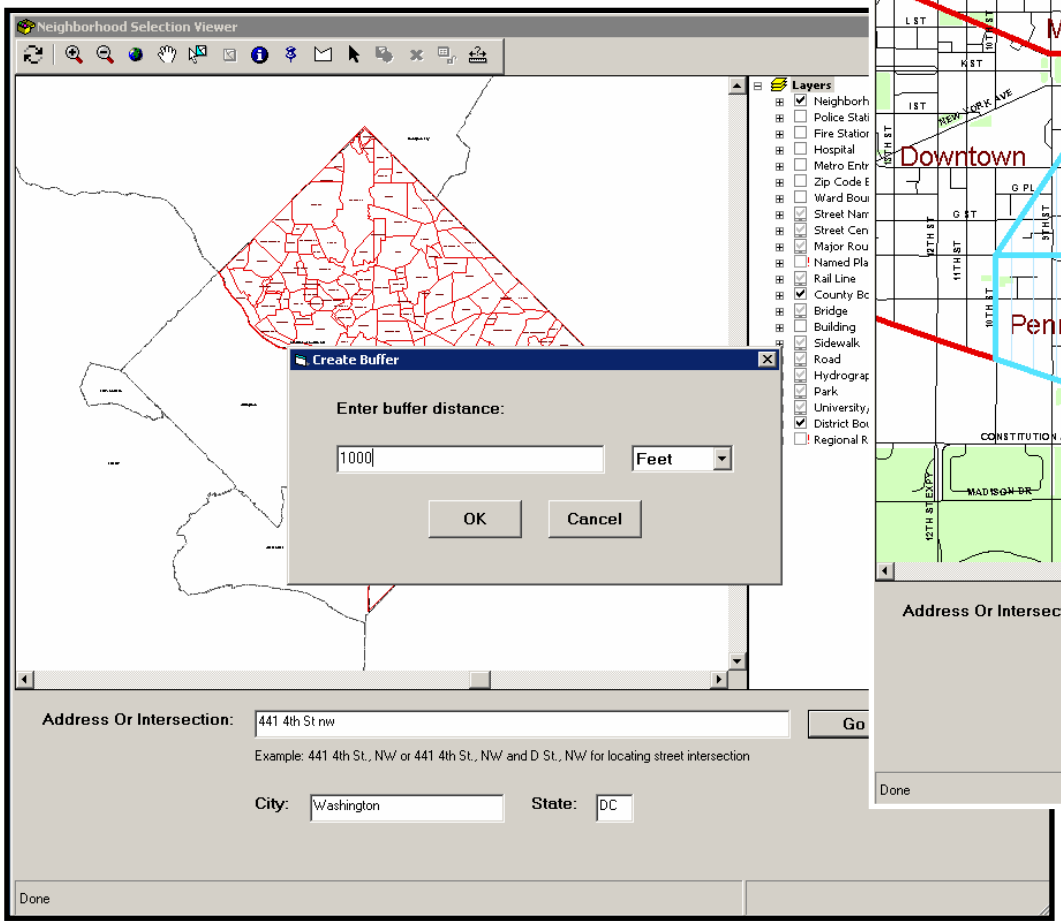
WebEOC

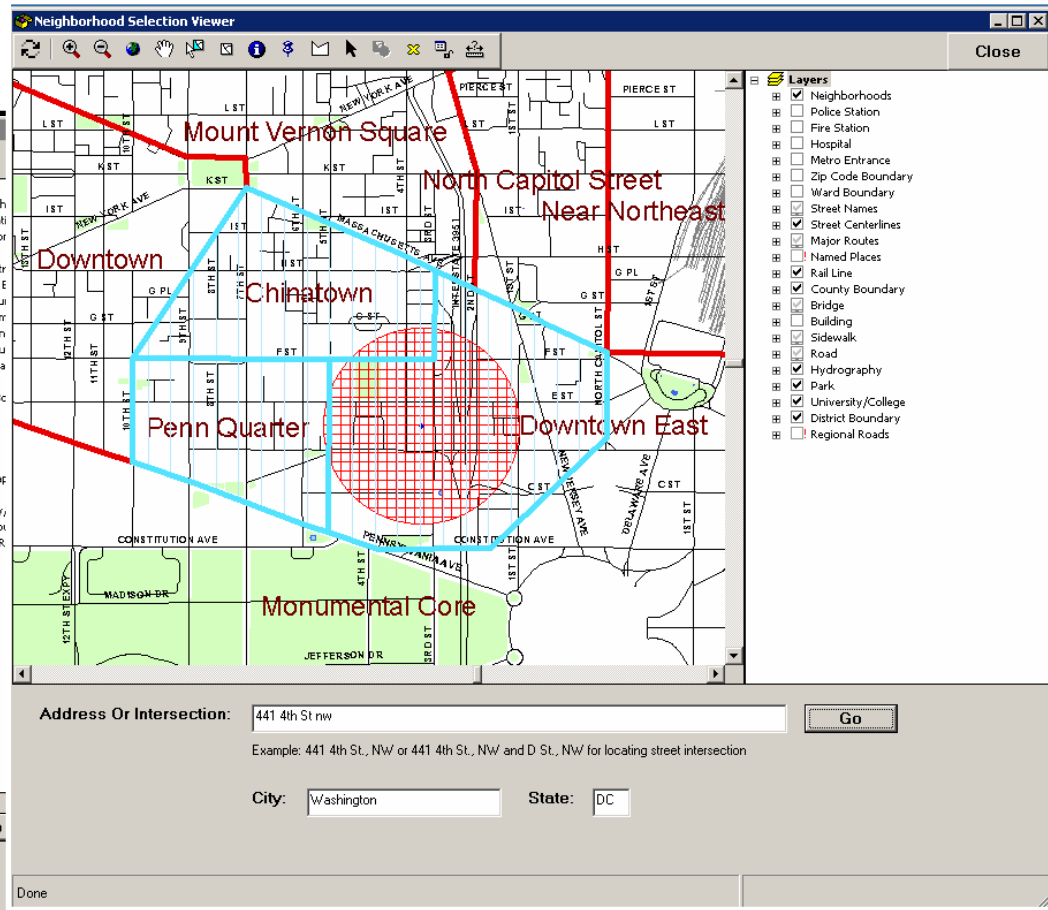

https://webeoc.dcema.dc.gov - ESi GIS Test Display - Microsoft Internet Explor...
Daily Log
Significant Events
7
Joshua Jack
03/15/2006
22:56:00
Explosion
EXPLOSION
There is an explosion in the basement of 441 4th St, NW. Fire and MPD are on scene and evacuation is in progress.
441 4 st nw
OPEN
Page 1
Disable Refresh
Done
Trusted sites
http://164.82.100.8 - Laye...
Refresh List
Visible
County
Regional Street Centerline
Park
Regional Water Body
Water Body
Stream
Street Centerline
Street Centerlines
Street Names
Road ROW
Neighborhood
Major Road
Beltway
Building
District Boundary
Trusted sites
http://164.82.100.8/webeocgise/main_viewpoints.aspx - Microsoft Internet Explorer
D ST
Downtown East
INDIANA AVE
C ST
1ST ST
2ND ST
LOUISIANA AVE
Explosion
Monumental Core
NEW JERSEY AVE
0.02mi
Ready
Coords: 208 , 48
Trusted sites

Daily Operation Support

- Neighborhood Viewer
- Event Licensing
- Training
- Exercises
- Analysis
- Map Production

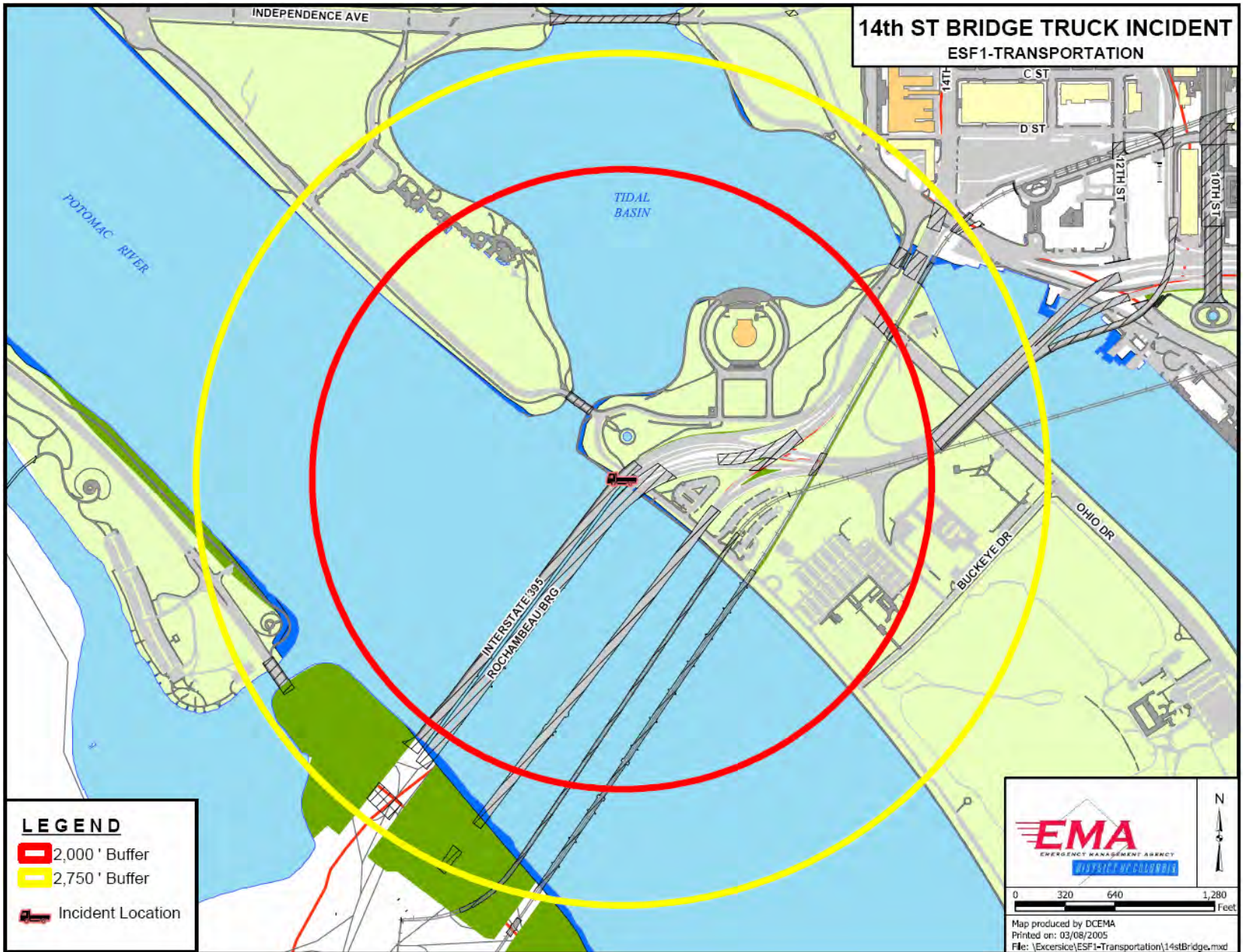
Neighborhood Viewer



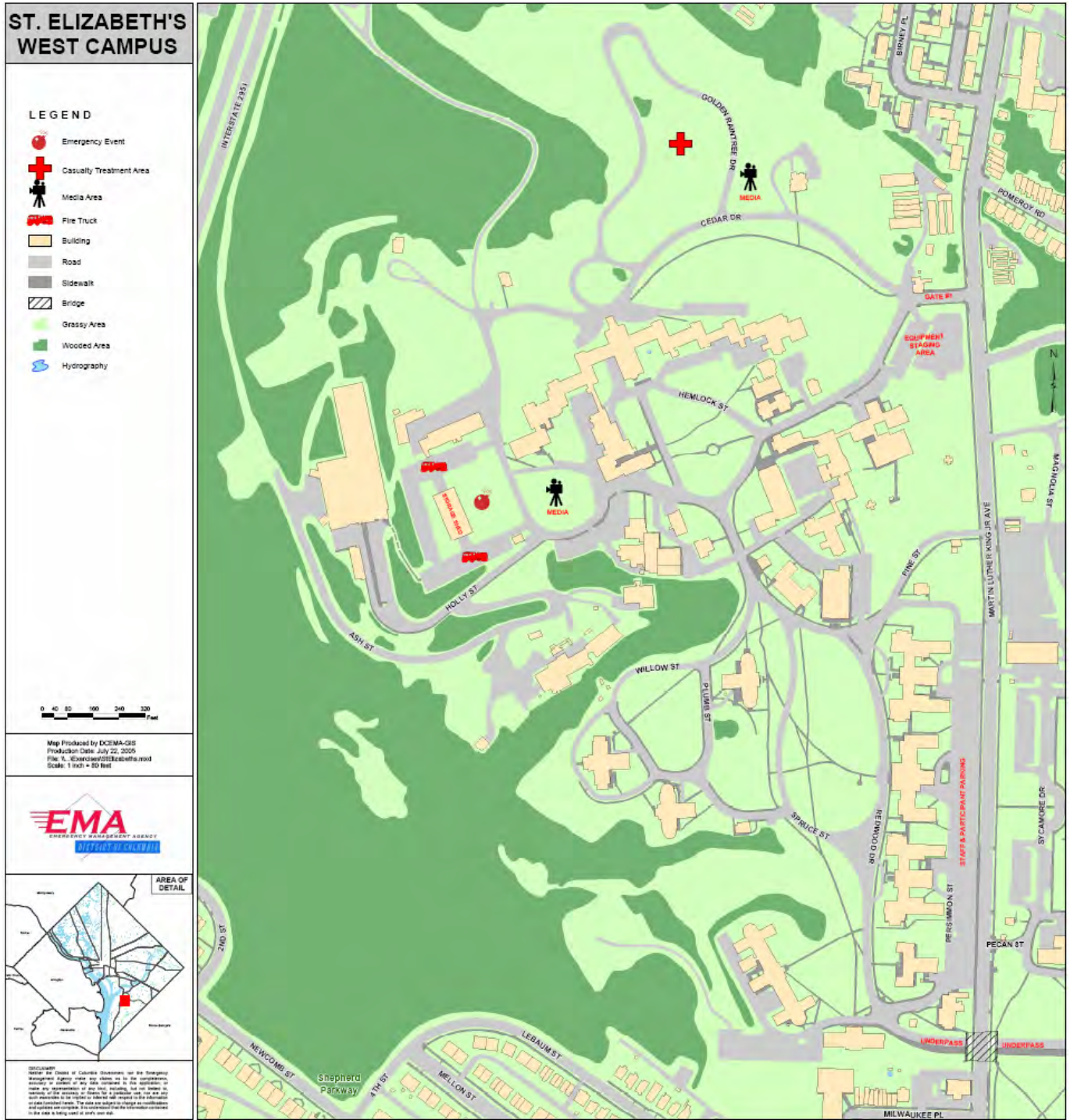


Event Licensing

Training

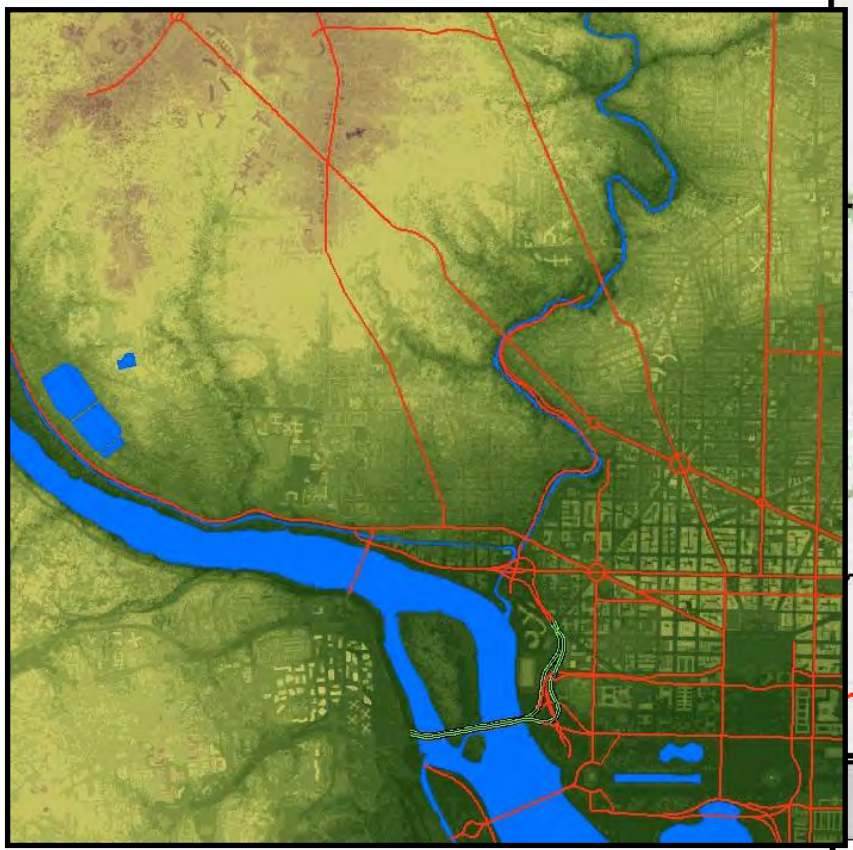

14th ST BRIDGE TRUCK INCIDENT
ESF1-TRANSPORTATION
INDEPENDENCE AVE
C ST
D ST
14TH
12TH ST
10TH ST
POTOMAC RIVER
TIDAL BASIN
INTERSTATE 395
ROCHAMBEAU BRG
BUCKEYE DR
OHIO DR
LEGEND
2,000 ' Buffer
2,750 ' Buffer
Incident Location
EMA
EMERGENCY MANAGEMENT AGENCY
DISTRICT OF COLUMBIA
N
0 320 640 1,280
Feet
Map produced by DCEMA
Printed on: 03/08/2005
File: \Excersice\ESF1-Transportation\14stBridge.mxd

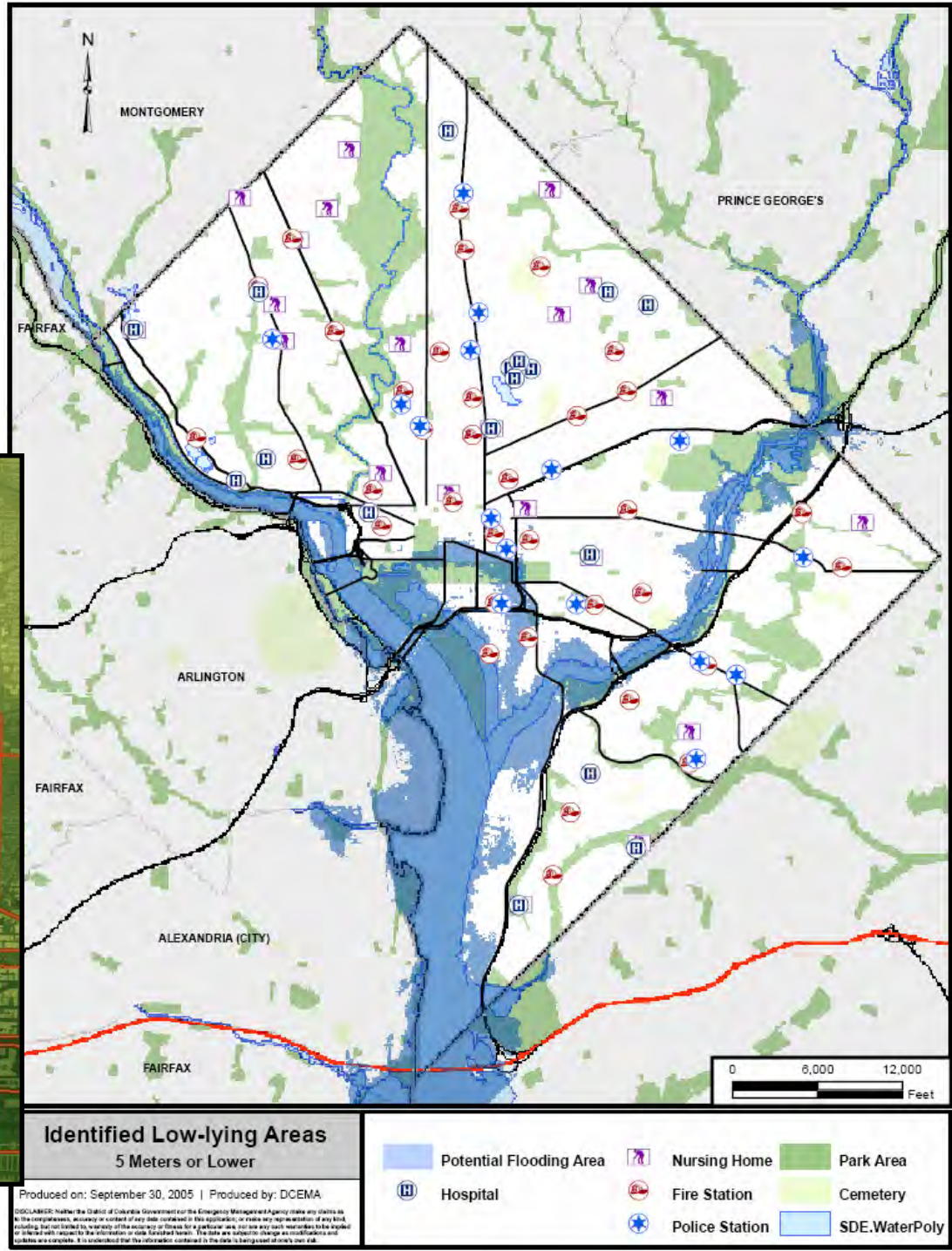
Exercise



ST. ELIZABETH'S WEST CAMPUS
LEGEND
Emergency Event
Casualty Treatment Area
Media Area
Fire Truck
Building
Road
Sidewalk
Bridge
Grassy Area
Wooded Area
Hydrography
Map Produced by DCEMA-GIS
Production Date: July 22, 2005
Scale: 1 inch = 80 feet
EMA
EMERGENCY MANAGEMENT AGENCY
DISTRICT OF COLUMBIA
AREA OF DETAIL
INTERSTATE 295
GOLDEN RAINTREE DR
CEDAR DR
MEDIA
BIRNEY PL
POMEROY RD
GATE #1
EQUIPMENT STAGING AREA
HEMLOCK ST
MAGNOLIA ST
MARTIN LUTHER KING JR AVE
PINE ST
HOLLY ST
ASH ST
WILLOW ST
PLUMB ST
SPRUCE ST
REDWOOD DR
STAFF & PARTICIPANT PARKING
SYCAMORE DR
PERSIMMON ST
PECAN ST
2ND ST
NEWCOMB ST
Shepherd Parkway
4TH ST
MELLON ST
LEBAUM ST
UNDERPASS
MILWAUKEE PL

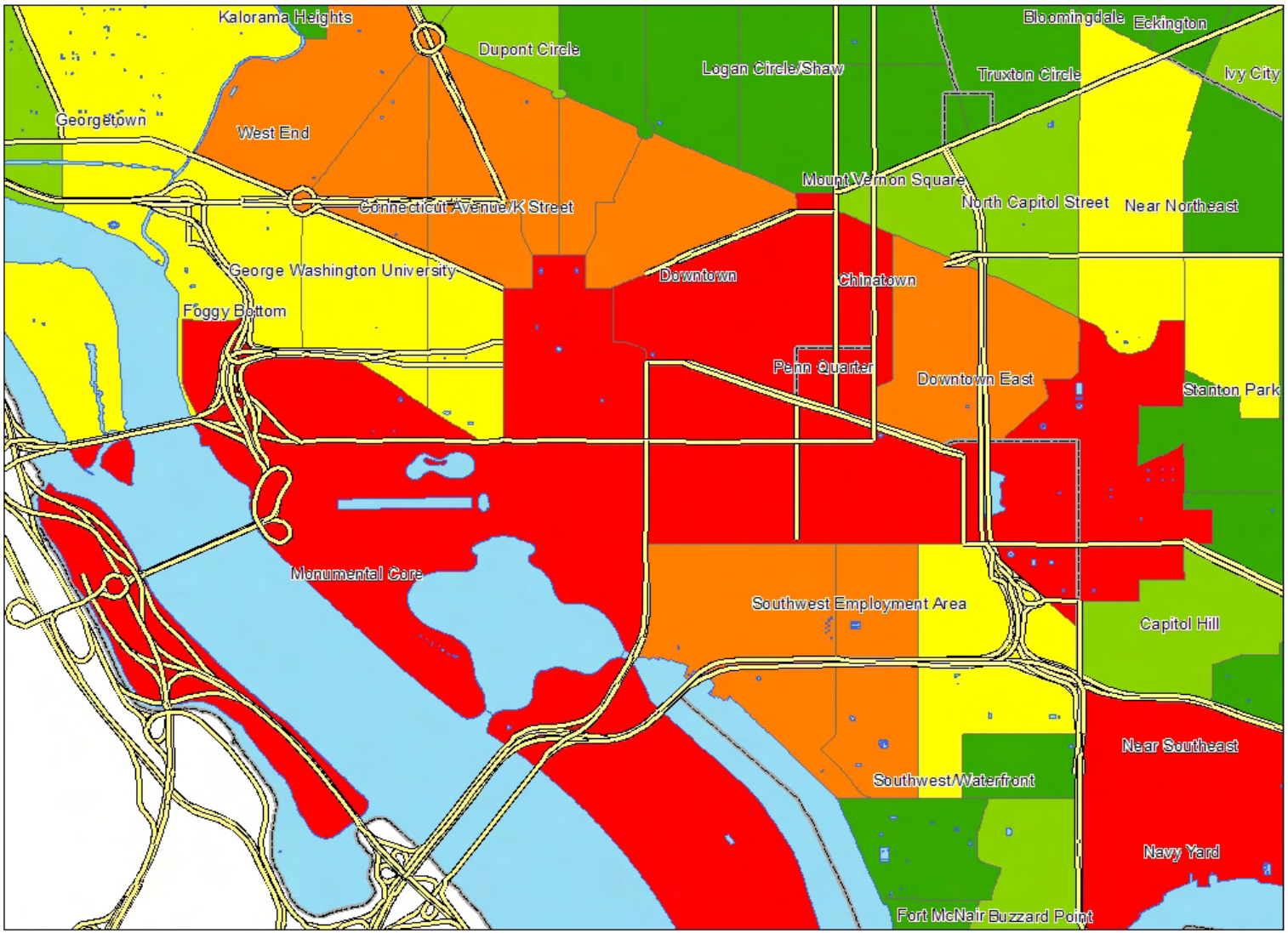
Analysis




N
MONTGOMERY
PRINCE GEORGE'S
FAIRFAX
ARLINGTON
FAIRFAX
ALEXANDRIA (CITY)
FAIRFAX
0
6,000
12,000
Feet
Identified Low-lying Areas
5 Meters or Lower
Produced on: September 30, 2005 | Produced by: DCEMA
Potential Flooding Area
Hospital
Nursing Home
Fire Station
Police Station
Park Area
Cemetery
SDE.WaterPoly

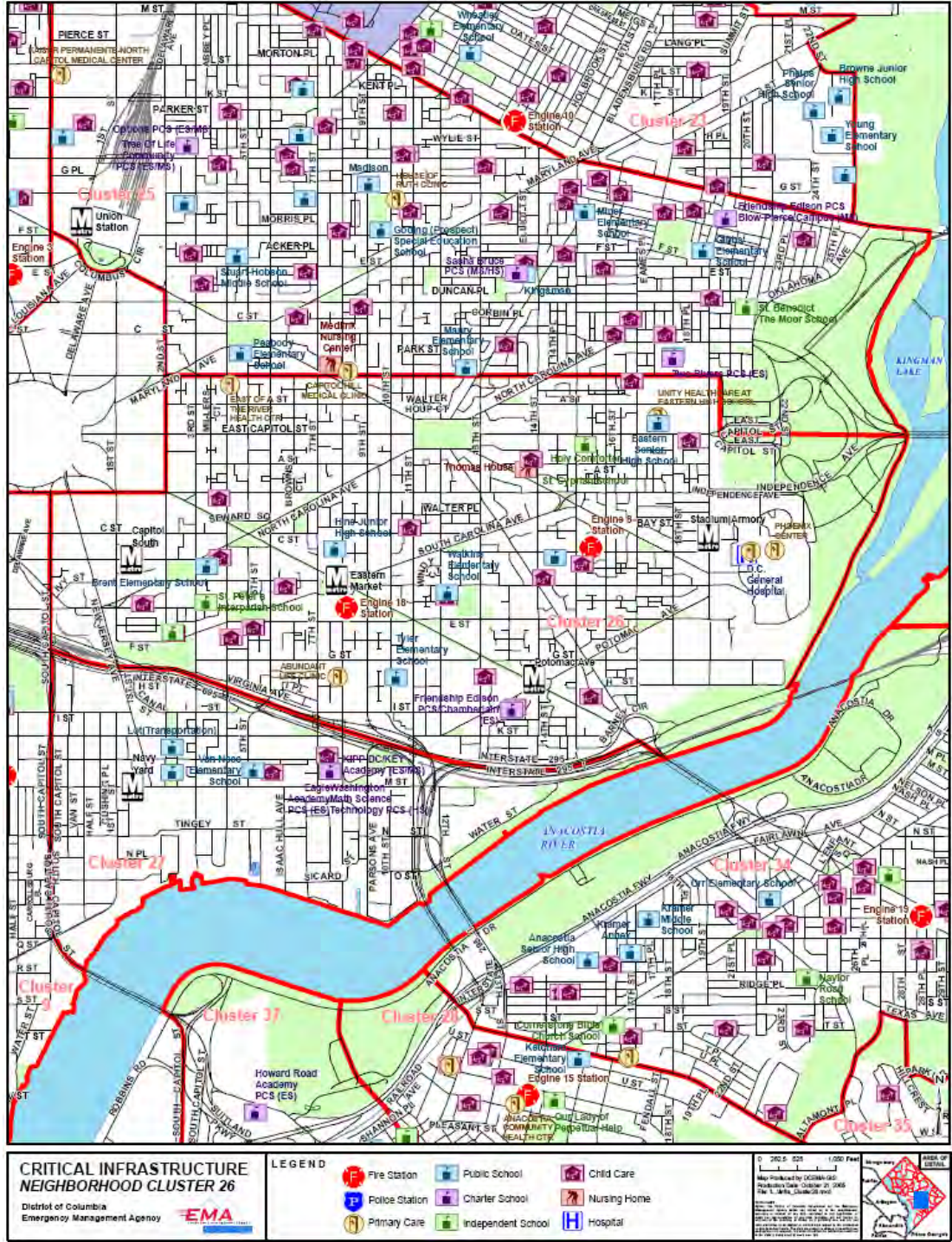
Analysis

Evacuation Planning with Daytime Population Model



Map Production

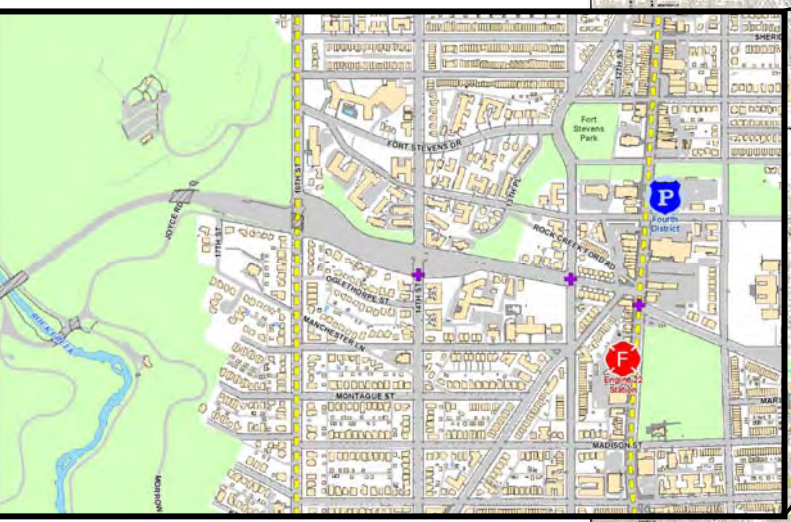
Critical Infrastructure Neighborhood Cluster

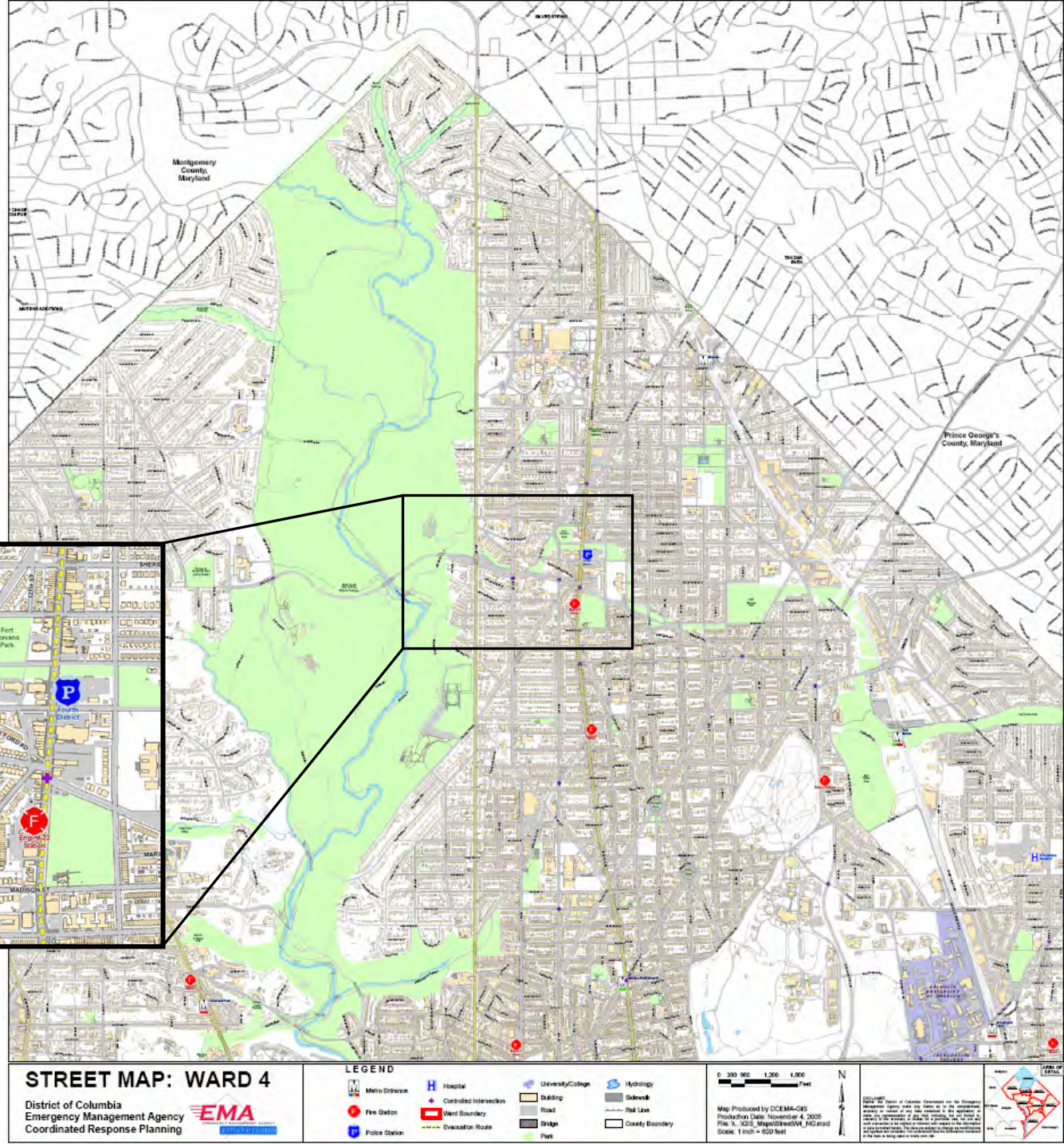


Map Production

Homeless Encampment Sites

Map Production





Ward Street Map

Future Enhancements

- **More sophisticated/capable integrated GIS for WebEOC**
- **Additional real-time/near-real time information**
  - **DDOT camera view angle**
  - **911 information**
  - **Traffic Conditions**
  - **24/7 Call Center information**
  - **Detailed weather information**
  - **METRO Cameras**
  - **HazMat Sensors**

Thank you

Next DC GIS Steering Committee Meeting:

Thursday, May 11, 2006
at 1:00 p.m.
Conference Room 1117
441 4th Street NW