



envista

Managing the World's Street Operations



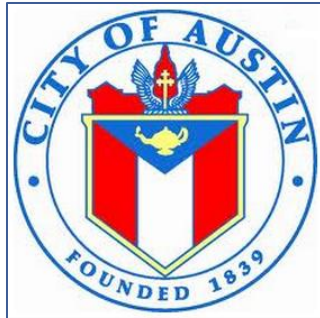
Convergence – Critical Activities and Operations

- Utilities
- Roadways
- Transit
- Traffic
- Events
- Incidents
- Construction



Complex Interrelationship - Requiring a Geospatial, Cloud-based Network for Coordinating and Managing all the Activities and Operations within the Right-of-Way

Customers Include:



Individual Silos

Streets & Drainage



Special Events

Surrounding Cities



Province Trans

Outside Gas



Planning & Development

Permitting

Water & Waste Water



Data Translation

Excel / Tables



Spatial Data



Work Orders & Permits



Documents & Schedules



The screenshot displays the Envista software interface. At the top, a map shows a street grid with various colored overlays (blue, green, yellow) representing different data points or work orders. Below the map, the Envista logo is prominently displayed. At the bottom, a data table is visible, listing work orders with columns for ID, Name, Owner, Type, Start Date, End Date, and Contact.

ID	Name	Owner	Type	Start Date	End Date	Contact
1203 - Woodst	1203 - Cleaning & Li Metro Water			09/01/2010	08/30/2012	Marty G Willia
1203 - Locust I	1203 - Cleaning & Li Metro Water			09/01/2010	08/30/2012	Marty G Willia
1203 - Keswic	1203 - Cleaning & Li Metro Water			09/01/2010	08/30/2012	Marty G Willia
1203 - Battery	1203 - Cleaning & Li Metro Water			09/01/2010	08/30/2012	Marty G Willia
1203 - Elm Av	1203 - Cleaning & Li Metro Water	Chestnut Ave Baltimore	W 40th St & f	09/01/2010	08/30/2012	Marty G Willia
1203 - Park H	1203 - Cleaning & Li Metro Water	Baltimore	39.352527, -7	09/01/2010	08/30/2012	Marty G Willia
1203 - Cover	1203 - Cleaning and Metro Water	N Bentley St Baltimore		09/01/2010	08/30/2012	Marty G Willia

Import Data Directly From Database

Project Information					Starting Location of Project			End Location of Project		Contact Information
Project Number / ID	Facility Type	Custom Status	Start Date	End Date	Location Type	Street Name	Cross Street Name	Street Name	Cross Street Name	Username
Cherry Hill Rd Resurface 123	Roadway	Committed	05/30/2011 00:00 AM	06/01/2011 11:59 PM	Line	Cherry Hill Rd	Southland Ave	Cherry Hill Rd	Metal Ln	david.marshall@envista.com
Round Rock Resurface 123	Roadway	Committed	05/23/2011 00:00 AM	05/26/2011 00:00 AM	Line	Deems Rd	Round Rd	Cherry Hill Rd	Seamon Ave	david.marshall@envista.com

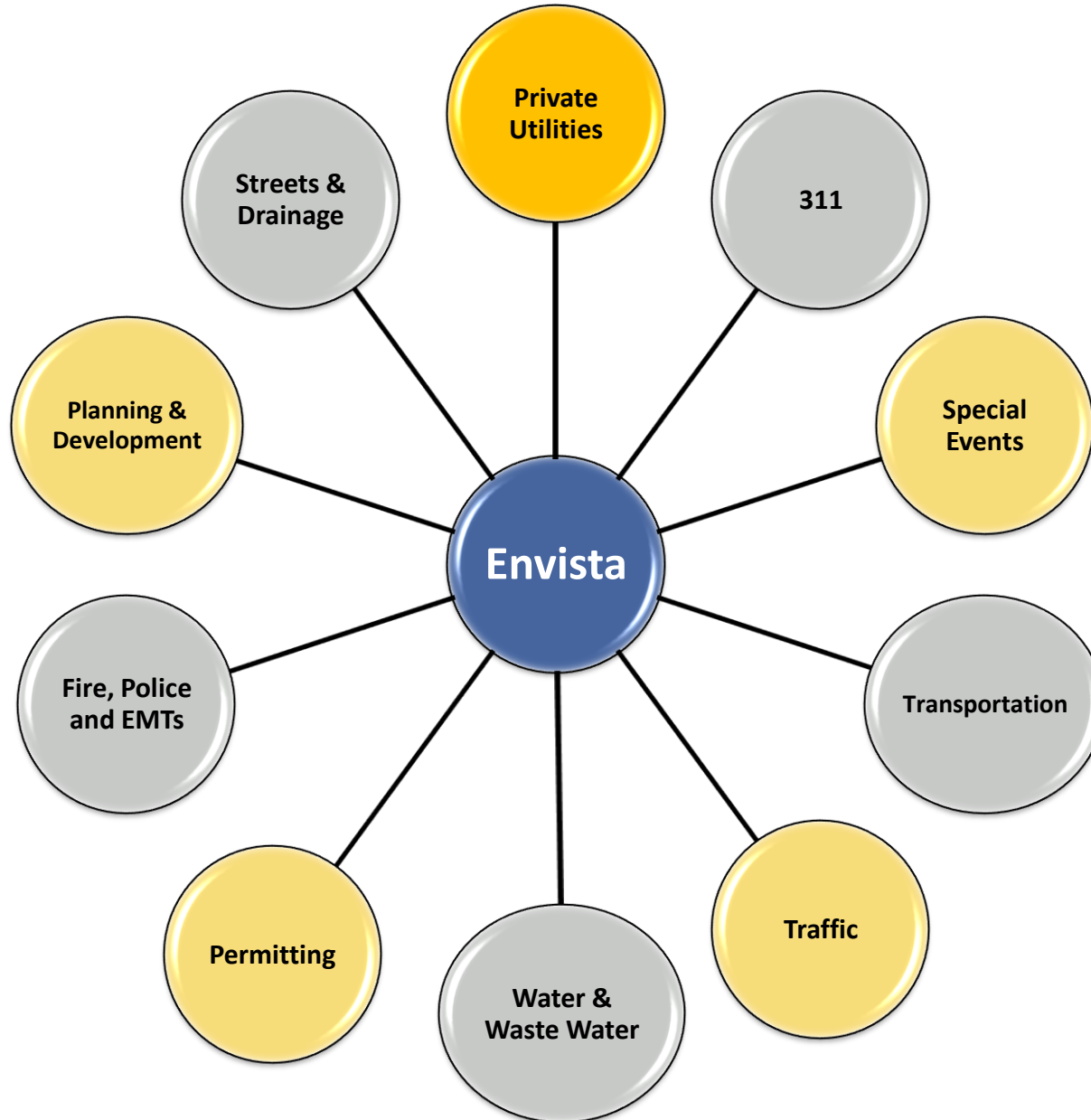


Round Rock Resurface 123 / Round Rock Resurfacing

Owner: Public Works Department
 Contact: [David Marshall](#) 978-232-6300
 Location: Deems Rd & Round Rd to Cherry Hill Rd & Seamon Ave, Brooklyn, Maryland, 21225
 Dates: 05/23/2011 - 05/26/2011
 Facility: Roadway
 Details:

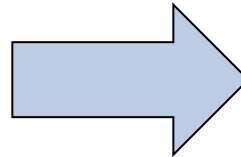
Id	Name	Owner	City	Street	Location	Location Size	Alert!	Facility Type	Start Date	End Date	Contact
Cherry Hill Rd Re...	Cherry Hill Rd Re...	Public Works De...	Brooklyn	Cherry Hill Rd	Cherry Hill Rd fro...	4987 ft	⚠	Roadway	05/30/2011	06/01/2011	David Marshall
Round Rock Res...	Round Rock Res...	Public Works De...	Brooklyn	Cherry Hill Rd/De...	Deems Rd & Rou...	2997 ft	⚠	Roadway	05/23/2011	05/26/2011	David Marshall

Bringing Together Different Organizations



Challenges in Coordination

- Make it Easy to Use



Challenges in Coordination

• Make Communications Simple



Calvert Rd Storm Projects 123 / Calvert Rd Storm Pro...

Owner: Public Works Department
Contact: David Marshall 978-232-6300
Location: Parallel Dr & Calvert Rd, Gwynn Oak, Maryland, 21207 : Carvel Rd & Lexington Rd : Lexington Rd & Colonial Rd : 39.308370, -76.717875 (Closest Street)
Dates: 06/14/2010 - 06/18/2010

We need to Talk - Message (HTML)

Message

Reply Forward Delete Move to Folder Create Rule Other Actions Block Sender Safe Lists Categorize Follow Up Mark as Unread

From: David Marshall [david.marshall@envista.com] on behalf of David Marshall [notifications@apps.envista.com]
To: David Marshall
Cc:
Subject: We need to Talk

envista
Dave
Can you call me to discuss the timing of this construction?
Thanks

Project Id: [Calvert Rd Storm Projects 123](#)
Name:
Start Date: 6/14/10 12:00 AM
End Date: 6/18/10 11:59 PM
Facility: Storm Drain
Owner: Public Works
Contact: David Marshall
Location: Line
Location: Parallel Dr & Calvert Rd, Gwynn Oak, Maryland, 21207 : Carvel Rd & Lexington Rd : Lexington Rd & Colonial Rd : 39.308370, -76.717875 (Closest Street)

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Related Impacts

Show All Projects Happening In Your City

Welcome Mark Cardarelli Admin Help Log Out

Projects Events Permits Conflicts Mailbox Dashboard envista

Projects Moratoriums Opportunities

Filters

Select or Save Current.. Save

Address Search...

Map Controls

View Add Edit Exchange Relate Reports...

Search

Location

Facility Type

- Select All
- Communication
- Electric
- Gas
- Land
- Roadway
- Sanitary Sewer
- Storm Drain
- Transit
- Water

Date Range

Fixed Floating

Ongoing

* From (mm/dd/yyyy): 01/12/2010

* To (mm/dd/yyyy): 01/12/2015

Owner

Impact Filters

1237481193799 / CR - TREMONT ST

Owner: Boston Public Works
 Contact: Envista Services (978) 232-6350
 Location: Tremont St & Cambridge St, Boston, Massachusetts, 02108 : Tremont St & Boylston St, Boston, Massachusetts, 02116
 Dates: 05/01/2010 - 11/15/2011
 Facility: Roadway > Roadway Surface
 Details: Type: Reconstruction / User ID: MARKCA / GIS Parent: TREMO1 / GIS Lo: 0 / GIS Hi: 2947 / [Data...]

Street	Location	Location Size	Alert	Facility Type	Activity Type	Paving Type	Category	Start Date	End Date	Contact
Tremont St	Tremont St ...	2757 ft		Roadway	Paving-Reconstr...	Paving - Curb to Curb		05/01/2010	11/15/2011	Envista Ser...
Travis St	9 Travis St,...			Roadway	Paving-Roads Only	Paving - Curb to Curb		11/16/2009	12/31/2010	Envista Ser...
Trapelo St	Trapelo St f...	813 ft	⚠	Roadway	Paving-Roads Only	Paving - Curb to Curb		10/14/2009	12/31/2011	Envista Ser...

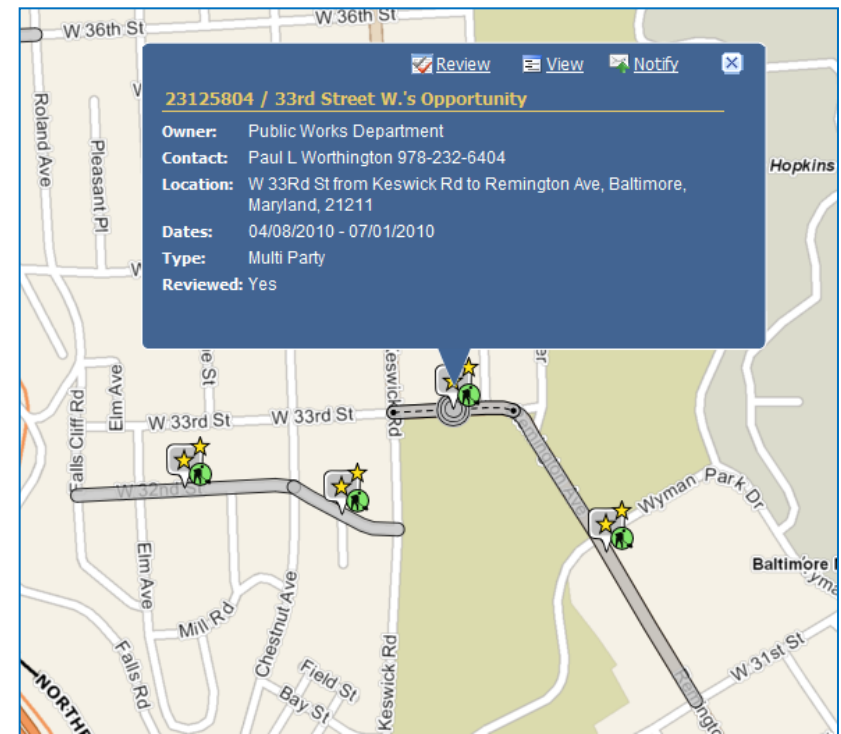
Displaying 551 - 600 of 1024

Real-Time Maps to Benefit Everyone

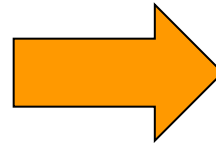
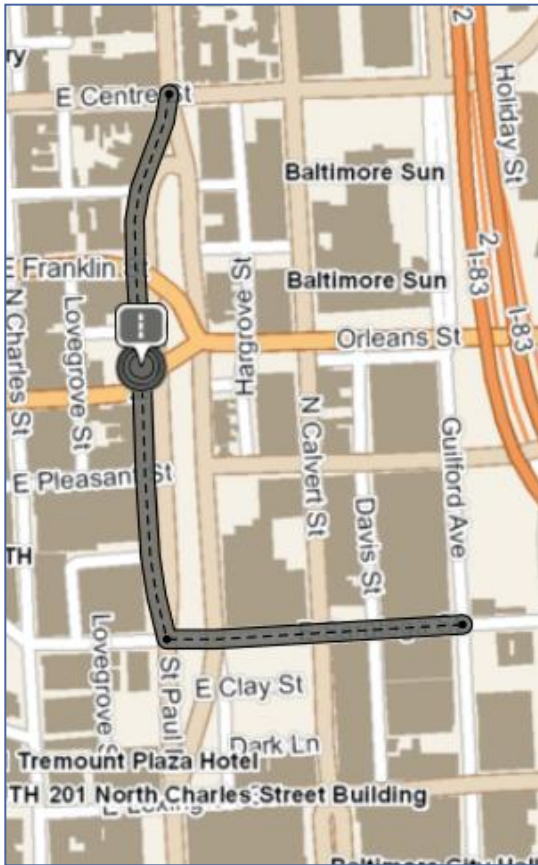
Moratorium Streets



Opportunity Streets

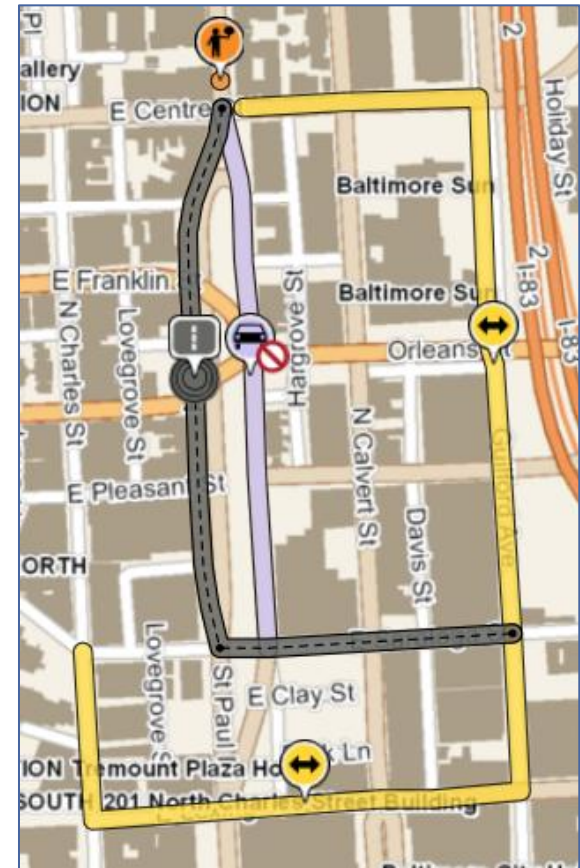


Visualize and Coordinate with Impacts of Projects



Impacts

Impact Type	
<input type="checkbox"/>	Select All ▲
<input checked="" type="checkbox"/>	Barricade
<input checked="" type="checkbox"/>	Closed Road
<input checked="" type="checkbox"/>	Controls/Traffic Officers
<input checked="" type="checkbox"/>	Detour Routes
<input checked="" type="checkbox"/>	Evacuation Route/Area
<input checked="" type="checkbox"/>	Parking Restrictions
<input checked="" type="checkbox"/>	Restricted Area
<input checked="" type="checkbox"/>	Shelter
<input checked="" type="checkbox"/>	Signs (VMS)



Show All Permits

Dashboard Projects Conflicts Moratoriums Opportunities **Permits** Mailbox

Permits View Add Edit

Filters

Select or Save Current Save

Location

- Select All
- Baltimore, Maryland
- Beverly, Massachusetts
- Boston, Massachusetts
- Cascade, Colorado
- Colorado Springs, Colorado
- Manitou Springs, Colorado
- Newton, Massachusetts
- Sacramento, California

Invalid Location

Date Range

Fixed Floating

Ongoing

* From (mm/dd/yyyy): 11/24/2008

* To (mm/dd/yyyy): 11/24/2010

Facility Type

- Select All
- Roadway
- Sanitary Sewer
- Storm Sewer

Search...

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Permit Table

ID	City	Street	Location	Start Date	End Date	Permit Type	Applicant	Status
W/44	Beverly	Trask St	79 Trask St, Beverly, Massachusetts, 01915	09/11/2008	12/31/2008	Water	E.Q. Enterprises Inc.	Completed
D1004	Beverly	Dane St	60 Dane St, Beverly, Massachusetts, 01915	09/24/2008	12/31/2008	Excavation	Early Contractors Inc.	Completed
SC672	Beverly	Paradise Rd	10 Paradise Rd, Beverly, Massachusetts, 01915	09/15/2008	12/31/2008	Sewer	W.A. Megrath	Completed
D925	Beverly	Hale St	49 Hale St, Beverly, Massachusetts, 01915	09/03/2008	12/31/2008	Excavation	Mirra Co Inc	Completed
D919	Beverly	Bow St	35 Bow St, Beverly, Massachusetts, 01915	08/26/2008	12/31/2008	Excavation	Mirra Co Inc	Completed
W730	Beverly	Hale St	376 Hale St, Beverly, Massachusetts, 01915	06/02/2008	12/31/2008	Water	Diamond Contracting Inc	Completed
W737	Beverly	Orchard St	2 Orchard St, Beverly, Massachusetts, 01915	07/18/2008	12/31/2008	Water	Bill and Bobs Contracting	Completed

Event Management Module

Events

Event Type

Select All

Festival

Music

Other

Parade

Race

Sports

Impacts

Impact Type

Select All

Barricade

Closed Road

Controls/Traffic Officers

Detour Routes

Evacuation Route/Area

Parking Restrictions

Restricted Area

Shelter

Signs (VMS)

BALTIMORE

Residents Business Visitors Government Office of the Mayor

Welcome to the City of Baltimore - Sheila Dixon, Mayor

I Want To...

TRANSPORTATION MENU

- Home
- News
- Press Releases
- Traffic Advisories
- Speed Monitoring
- Traffic Cameras
- TIGER
- Projects
- The Snow Page
- FAQ's
- Ride Share
- Bike Baltimore

TRANSPORTATION DIVISIONS

- Conduits Division
- Engineering & Construction Division
- Maintenance Division
- Planning Division
- Safety Division
- Traffic Division

OTHER RESOURCES

- Owner Release Form
- Towing Forms
- Baltimore City's Transportation Strategic Plan
- CitiStat Reports
- Department of Transportation Community Events Calendar

Department of Transportation - Events

Under Armour Baltimore Running Festival Map

Baltimore City is proud to host the 9th Under Armour Baltimore Running Festival. In order to make your travel through the city easier please consult the map below showing the marathon, half marathon, and suggested alternate routes.

For additional information please see the Traffic Advisory about the marathon

Enter an address to mark the location on the map.

- Suggested Detours
- Marathon and Half Marathon Route
- Morgan State Homecoming Parade

Tue, October 13, 2009

CONTACTS

Department of Transportation
 Alfred H. Fox, Director
 417 E. Fayette Street
 5th Floor
 Baltimore, MD 21202
 (410) 396-6802

For Public Relations Information Contact:
 Adrienne Barnes or Kathy Chopper at 410-361-9296

FEATURED ITEMS

- Boston Street Public Hearing
- Boston Street Environmental Assessment
- Bike Blast Events
- Middle Branch Presentation
- North Avenue Streetscape Concept
- Mayor Dixon Announces New Traffic Calming Policies
- New Traffic Calming Request Process
- Transportation / CSX Joint Statement
- Bike Master Plan
- Southeast Traffic Plan Presentation



Incident Management Module

Incidents

Incident Type

Select All



Welcome Marc Fagan Admin Help Logout

Dashboard Projects Conflicts Moratoriums Opportunities Permits **Events** Mailbox

View Add Add Impact Edit Exchange

Filters

Select or Save Current Save

Location

Select All Baltimore, Maryland

Invalid Location

Date Range

Fixed Floating

Ongoing

* From (mm/dd/yyyy): 04/27/2009

* To (mm/dd/yyyy): 05/03/2009

Emergency Type

Select All

Utility Break

Accident (Transportation)

Weather

Fire

Public Disorder

Hazardous Materials

Epidemics

Explosions/Emissions

Geological/Hydrological

Seismic

Events

Terrorism

Impact Type

Select All

Closed Road/Restricted Area

Advanced Filters

Search

Tremount Plaza Hotel

Blaustein Building

Wachovia

William Donald Schaefer Tower

METRO-CHARLES CENTER STATION

Bank of America

Legg Mason

The Gallery

The Gallery

Harborplace

World Trade Center

City Hall

Shot Tower/Shot Tower

Reginald F. Lewis Museum of Maryland

Spangler Banner Flag House

4.28.09 - Impact Street Closure Gay St / Lombard St Wa...

Owner: Baltimore Dept. of Transportation

Contact: Marc Fagan

Location: S Gay St & E Lombard St to N Gay St & E Baltimore St, Baltimore, Maryland, 21202

Dates: 04/28/2009 - 04/30/2009

Event Table

ID	Type	Name	Owner	Location	Start Date	End Date
4.28.09	Utility Break	Lombard St Water Main Break	Baltimore Dept. of Transportation	574 E Lombard St, Baltimore, Maryland, 21202	04/28/2009	04/30/2009
4.28.09-Impact Street Closure Gay St	Closed Road/Restricted Area	Lombard St Water Main Break-Impact	Baltimore Dept. of Transportation	S Gay St & E Lombard St to N Gay St & E Baltimore St, Baltimore, Maryland, 21202	04/28/2009	04/30/2009
4.28.09-Impact Calvert Street Detour	Detour Routes	Lombard St Water Main Break-Impact	Baltimore Dept. of Transportation	Light St & E Pratt St, Baltimore, Maryland, 21202 : 39.286584, -76.612159 (Closest Interse	04/28/2009	04/30/2009
4.28.09-Impact Street Closure Lombard	Closed Road/Restricted Area	Lombard St Water Main Break Impact	Baltimore Dept. of Transportation	E Lombard St from South St to S President St, Baltimore, Maryland, 21202	04/28/2009	04/30/2009

Page 1 of 1

Displaying 1 - 17 of 17

Parking Restrictions

Restricted Area

Shelter

Signs (VMS)



Identify Conflicts

Welcome David Marshall

Projects Events Incidents

Conflicts Conflict Details - 30226643

Filters

Select or Save Current...

Location [All Locations...](#)

Owner

Select All

American Telephone

Baltimore Residents

Baltimore Telecom

CJC Communications

Commonwealth Electric

Consolidated Gas

Dallas Residents

Envista Demo Org

Events Association

Metro Water

Date Range

Fixed Floating

Ongoing

* From (mm/dd/yyyy):
08/09/2011

* To (mm/dd/yyyy):
08/09/2013

Resolution Status

Select All

Unacknowledged

Acknowledged

Coordinated

Permanently Coordinated

* Status For:
<https://apps.envista.com/envista>

Welcome David Marshall

Projects Events Incidents

Conflicts Conflict Details - 30226643

Conflict

Conflict ID: 30226643

Street: W Monument St

Date Overlap: Yes

Scope: External

Distance: 0 ft

Source

ID: DOT MAINT-2009-52

Name: [Mor-DOT M...](#)

Owner: Public Works D

Contact: [Paul L. Worth...](#)

Type: Moratorium

Location: W Monument St

Location Type: Line

Response Status: Coordinated

Description: Council Dist 13

Target

ID: 1894747

Name: [REG STA 16...](#)

Owner: Consolidated G

Contact: [Bill E Cuda 97...](#)

Type: Project (Gas)

Location: 415 Druid Hill A and N Eutaw S

Message Add-Ins Salesforce.com

Reply Forward Delete Move to Folder Create Rule Other Actions Block Sender Not Junk Categorize Follow Up Mark as Unread


Respond Actions Junk E-mail Options

From: David Marshall [david.marshall@envista.com] on behalf of David Marshall [notifications@apps.envista.com]

To:


Cc: David Marshall

Subject:



Conflict Id: [30226643](#)

Participant 1:	Participant 2:
ID: DOT MAINT-2009-52	1894747
Name: Mor-DOT MAINT-2009-52	REG STA 169- DRUID HILL
Owner: Public Works Department	Consolidated Gas
Contact: Paul L Worthington	Bill E Cuda
Start Date: 06/25/2009	12/19/2011
End Date: 06/25/2014	12/29/2011
Object Type: Moratorium	Project
Type:	Project (Gas)
Loc Type: Line	Line
Location: W Monument St from N Eutaw St to N Howard St, Baltimore, Maryland, 21201	415 Druid Hill Ave, Baltimore, Maryland, 21201 to N Howard St & W Monument St via W Centre St & Druid Hill Ave and N Eutaw St & W Monument St



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envista

Log Out

envista

Reports...

TRO-JOHN'S HOPKIN

JOHN'S HOPKINS SOL

Elderry St

Jeff

N Bond St

St. Caroline St

N Bond St

E Lombard St

S Broadw

tion

atur St & E Fo...

ife St from S...

Druid Hill Ave...

ying 51 - 100 of 218

Different Conflicts Identified by Envista

- Projects in the same location at the same time
- Projects on a Moratorium Street
- Projects out of phase
 - Water project occurring after the road was resurfaced
- Projects in conflict with an event
- Conflicts with Impacts of Projects and Events
 - Two detours running down the same streets at the same time
 - A detour from a project running into an event



**Conflicts Avoided =
Money Saved &
Headaches Avoided**



Citizen View

- Public Web Site – Options: Projects, Incidents, Events, Permits
- Control Information Displayed
- “Real-time” Updating

The screenshot displays a Google Maps interface with a project information popup and a sidebar menu. The popup for 'Pave-11-02/Annual Paving Program' provides the following details:

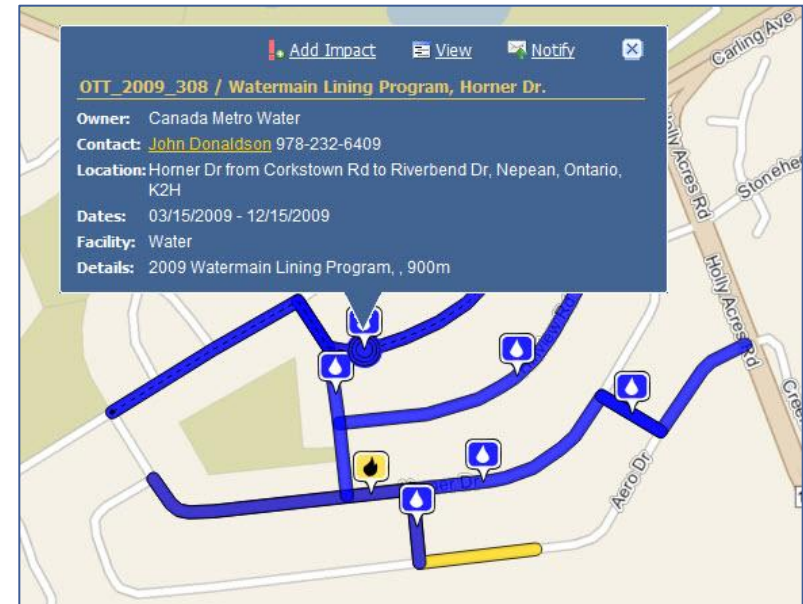
- Owner: Public Works Department
- From: Boylston St & Tremont St, Boston, Massachusetts,
- To: Boylston St & Dalton St, Boston, Massachusetts, 02115
- Dates: 04/01/2011 - 11/14/2011
- Status: Planned

The sidebar menu on the right lists various project categories:

- Projects
 - Gas
 - 11000045/WD-9003
 - PROJ_39412.5817_4225/Utility Construction
 - Roadway
 - Pave-11-02/Annual Paving Program
 - Owner: Public Works Department
 - From: Boylston St & Tremont St, Boston, Massachusetts,
 - To: Boylston St & Dalton St, Boston, Massachusetts, 02115
 - Dates: 04/01/2011 - 11/14/2011
 - Status: Planned
 - Project-20110215164054/Lines
 - Sanitary Sewer
 - 11000036/WD-2404
 - Land
 - Project-20110215164348/areas
 - Storm Drain
 - Project-20110215163842/Points
 - Water
 - 08-308-014/Annual Operations Repairs

Envista: A Web-based Application

- **All you need is internet access and a browser**
 - No additional hardware or software required
- **All mapping imagery and data provided**
- **Subscription includes:**
 - Enterprise-wide usage for your organization
 - On-going enhancements
 - Phone and email support
 - Secure storage in state-of-the-art data center





envista

Managing the World's Street Operations

