



Street & Drainage Division Overview

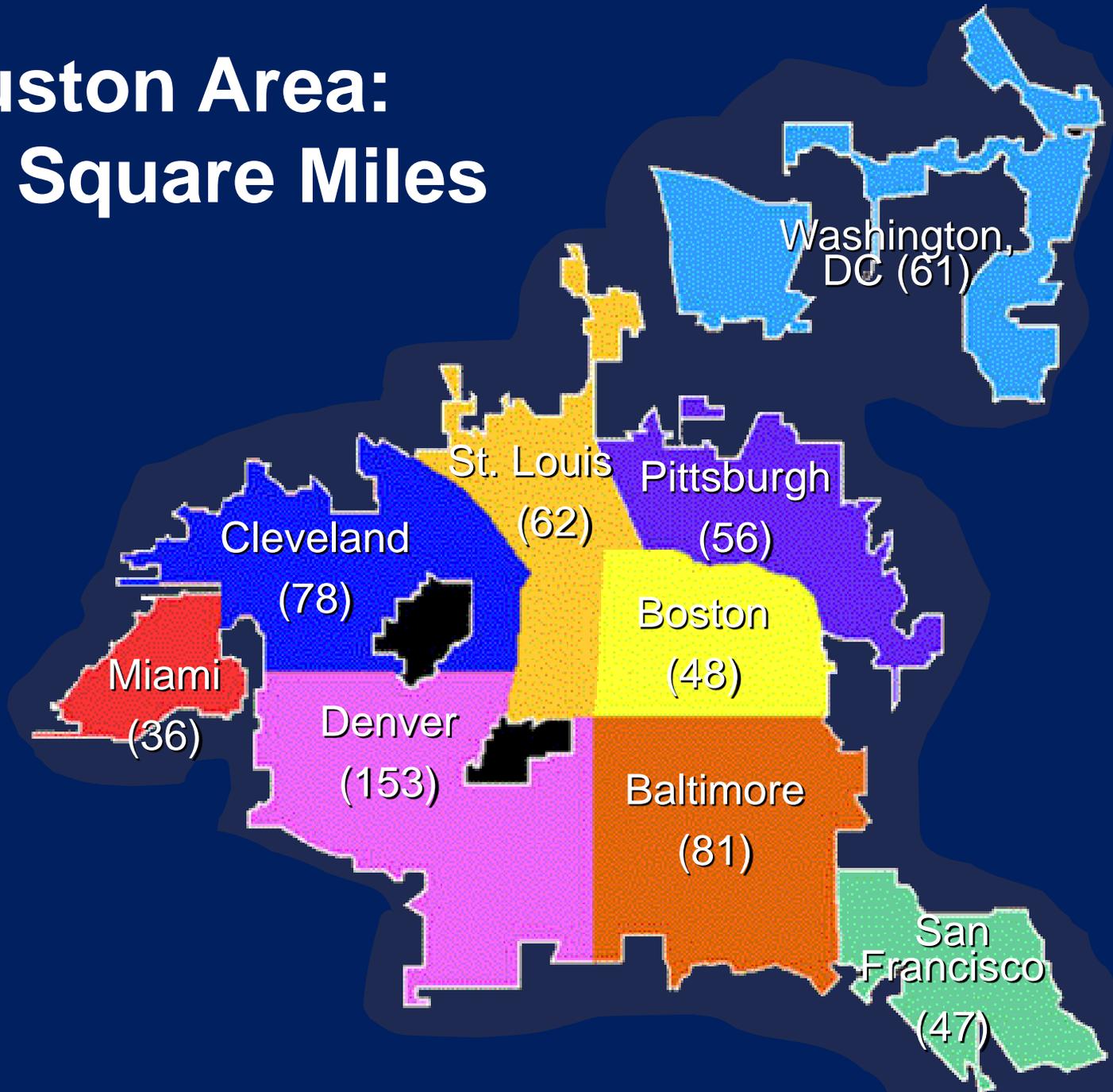


Houston Population: Over 2.1M



The populations of all these cities COMBINED would fit within our population. Estimate as of 1-1-2010

Houston Area: 650 Square Miles



The land area of all these cities COMBINED would fit within Houston's land area.



PWE Mission Statement

Plan, design, construct, operate and maintain Houston's public infrastructure systems to provide drinking water, wastewater treatment, storm water drainage and streets; establish and enforce the City's building and development codes; all in a responsive, effective, efficient and responsible manner to serve our customers.

PWE Vision Statement

Be a rock solid, responsive and respected organization for Houston and be the premier public works department in the United States.

PWE Values Statement

Commitment to excellence through continuous improvement, competence, innovation, courage, trustworthiness, integrity, selfless service and teamwork.





Mission

To deliver quality service, in a safe and timely manner, that provides for the smooth operation and high-level maintenance of streets, bridges, and storm water infrastructure in the city's rights-of-way.

Goals

- 1. Be responsive to the requests of the public - 311**
- 2. Be efficient and provide quality service in our daily operation**
- 3. Meet our budget**

Street and Bridge

Maintain a smooth riding surface free of obstacles and debris.

Storm Water

To assure the operability of the storm drainage system as it is currently configured.



There are three branches within the Street & Drainage Division headed by **Deputy Director Eric K. Dargan**

These Branches are:

- The Administrative Branch, led by **Deputy Assistant Director Erik K. Dunn**
- The Storm Water Maintenance Branch, led by **Assistant Director Rod Pinheiro**
- The Street and Bridge Maintenance Branch, led by **Assistant Director Diane Lowery-Binnie**

Operating budget approximately \$90 million

Over 600 Personnel



Street & Drainage Division

311 Requests

- Receives
- Dispatches
- Investigates
- Responds

Maintains 24/7 dispatch/hotshot operation.

- Responds to urgent requests.

Number of 3-1-1 SR's	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>
	38,840	35,752	35,596	41,974



Storm Water Maintenance Branch

- Roadside/Off-road Ditch Maintenance
- Storm Sewer Maintenance
- Storm Water Quality Enforcement TPDES
(Texas Pollutant Discharge Elimination System)
- Technical Services



Storm Water Maintenance Branch

☉ **Responsible for maintenance of:**

- 2,400 + Miles of Roadside Ditches
- 3,800 + Miles of Storm Gravity Mains
- 115,000+ Storm Drainage Inlets
- 80,000 + Storm Water Manholes
- 74+ Miles of Off-Road Major Drainage Ditches
- 10 Storm Water Detentions Basins

☉ **Road Side/Off Road Ditch Maintenance Section(s)**

- Desilt and regrade drainage ditches
- Flush culverts under driveways and streets
- Monitor storm water collection
- Maintain COH detention basins/ponds



Storm Water Maintenance Branch

● **Storm Sewer Maintenance Section:**

- Clean manholes and inlets and replaces missing manhole covers

● **Technical Services Section**

- Inspect new and rehabilitated storm sewer systems and components

● **Storm Water Quality Enforcement Section**

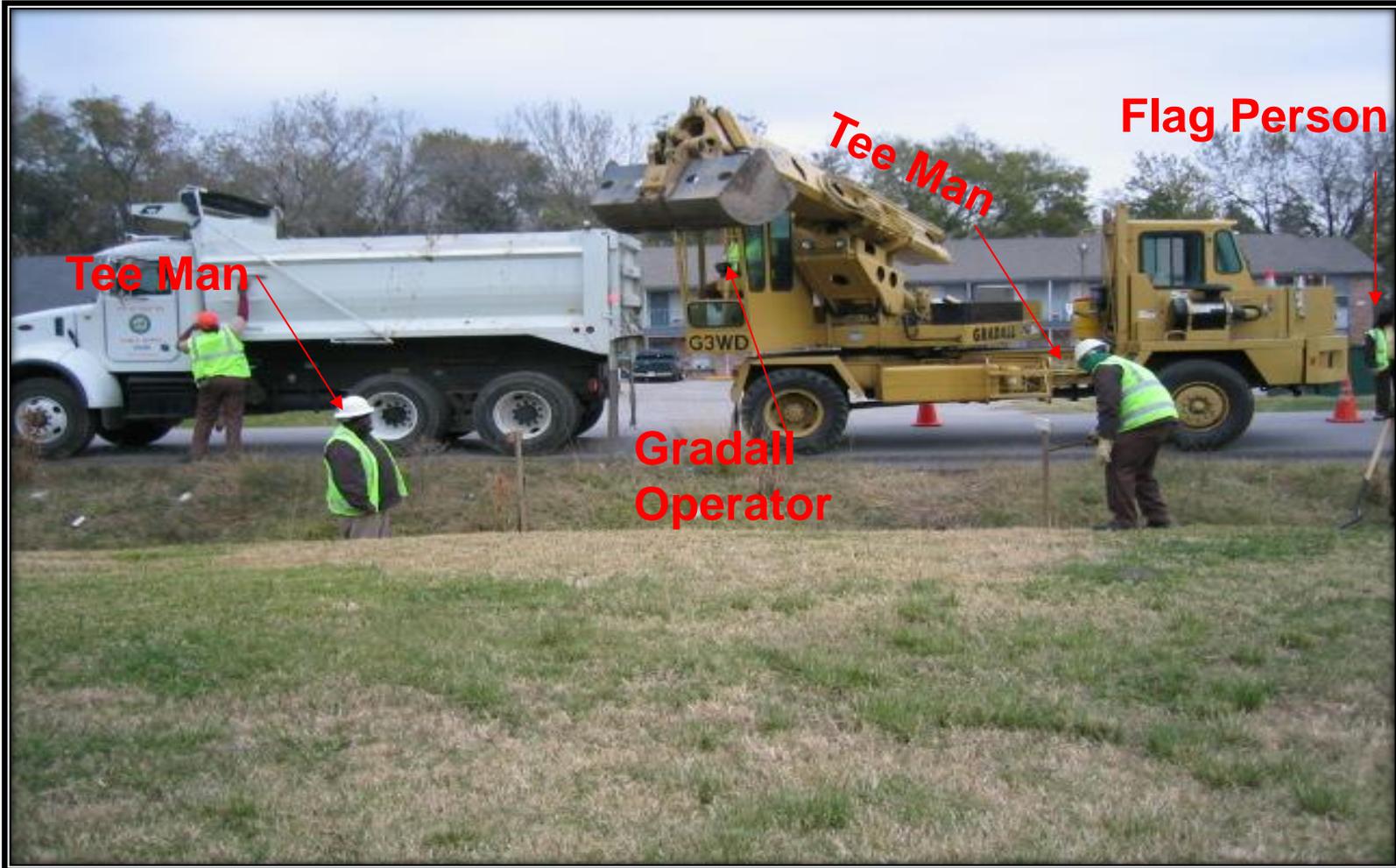
- Monitor & inspect runoff to prevent pollutants from entering streams and bayous
- Work in support of the city's Texas Pollutant Discharge Elimination System (TPDES) Storm Water Permit





Roadside Ditch Maintenance

Cutting Ditch for Grading



Roadside Ditch Desilted/Regraded (275 miles)

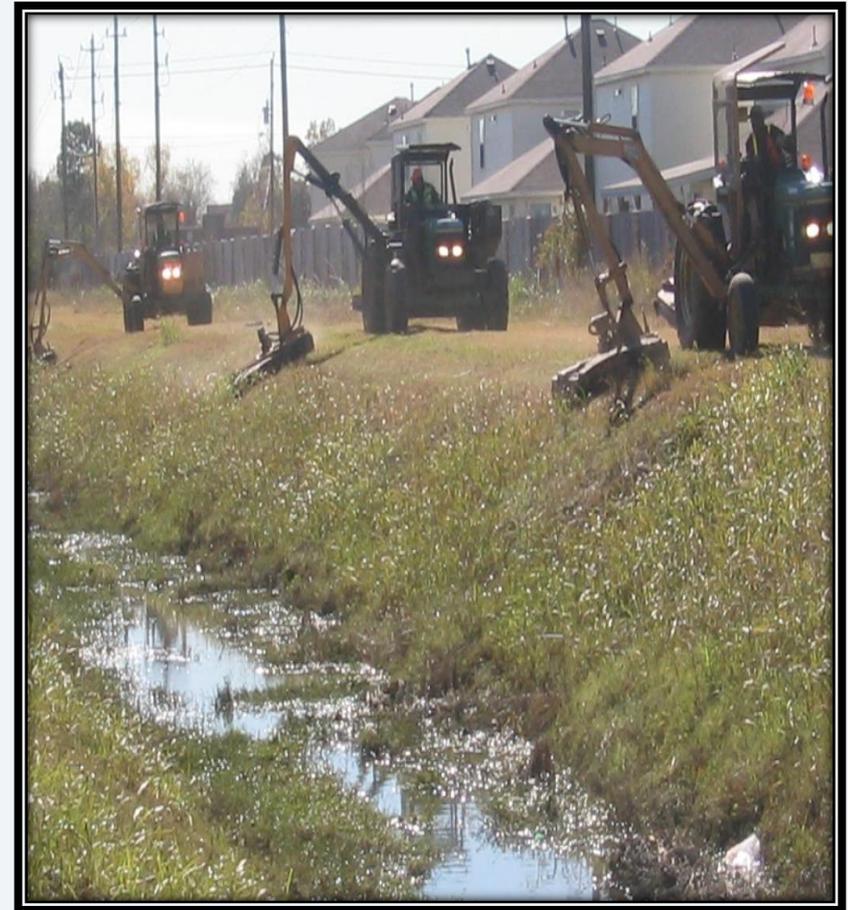






Off Road Ditch Maintenance

- Close up of side mowers; note each mower is cutting at a staggered level. This makes mowing large easements/off road ditches faster and more efficient.
- Major Ditches Inspected (296 miles annually)
- Off Road Drainage Easements Mowing (2 cycles annually)





Storm Sewer Maintenance Beam Top Repair

- Finished Beam Top
- All repairs are completed
- Inlet/Manhole Maintenance Cycles (60,000 annually)
- Storm Sewer Lines/Leads Inspected (360 miles annually)





Storm Sewer Man Entry Inlet Cleaning With Vacuum Truck



Technical Services Section

Drainage Assessments

- Event driven or requested by other entities
(e.g. Structural Flooding or Engineer's Request)
- Duration is 60 days from the initial request until the Drainage Assessment Summary is complete
- Since 2005 the Technical Services Section has performed hundreds of Drainage Assessments





Storm Water Quality Enforcement Section

- Storm water and Spill Prevention Plans
- Manifest
- Industrial Wastewater Permits
- Household Hazardous Waste (650,000 lbs)

BEFORE



AFTER





Our mission

is to engage individuals to take greater responsibility for their community environments.



As a national award-winning Keep America Beautiful affiliate, Keep Houston Beautiful has worked with all segments of the community for more than 35 years to educate and empower individuals to take greater responsibility for beautifying and enhancing Houston's environment. Each year's successes have created a cleaner and healthier city for all Houstonians.



3000 Richmond Ave, Ste 350
Houston, TX 77098

Tel: 713.839.8855
Fax: 713.839.8880

www.houstonbeautiful.org
www.facebook.com/keephoustonbeautiful

Keep Houston Beautiful is the d.b.a. of the Houston Clean City Commission, Inc., a Texas 501(c)3 tax-exempt organization. Oversight is provided by a 50-member Clean City Commission which includes representatives from city council districts and appointees by the mayor.



Adopt-a-Ditch

Targeting tree planting along center-line ditches, Keep Houston Beautiful's Adopt-A-Ditch tree program transforms public drainage esplanades into cleaner, more environmentally pleasant areas. A healthy tree canopy provides shade and reduces energy consumption while sequestering carbon dioxide and cleansing the air.

Adopt-a-Ditch

What type of program is this?

ADOPT-A-DITCH is an expansion of the successful Adopt-A-Block program that is a partnership between the City of Houston Public Works and Engineering Street and Drainage Division, Keep Houston Beautiful (KHB), local merchants, volunteers and residents. The goal of the effort is to raise the quality of life by transforming the adopted areas into cleaner, more environmentally pleasant places to live and work.

What are the advantages?

- ❖ Encourages neighborhood pride and increases property values
- ❖ Reduces litter removal costs
- ❖ Keeps ditches clean for stormwater removal
- ❖ Provides vegetation that will help filter stormwater
- ❖ Allows maintenance crews to do other tasks

How does it work?

EACH SITE selected will be matched with a local community organization/group who will agree to provide long-term maintenance of the project. The long-term commitments to the site include:

- ❖ Scheduling cleanup dates based on the City of Houston Public Works and Engineering Street and Drainage Division mowing schedule
- ❖ Recruiting volunteers and monitoring volunteers during clean up events
- ❖ Ordering equipment from the KHB Warehouse, distributing equipment and trash bags, and returning equipment to the warehouse after events
- ❖ Completing and returning Event Completion Forms after each event

I Want to Adopt-a-Ditch!

Organization: _____

Address: _____

Contact Name: _____

E-mail: _____

Phone: _____

Anticipated Number of Participants: _____



Please return to:
Keep Houston Beautiful
3000 Richmond Ave, Ste 350
Houston, TX 77098
Tel: 713.839.8855
Fax: 713.839.8880

Email: efenton@houstonbeautiful.org

OR SIGN UP ONLINE AT:

http://www.houstonbeautiful.org/uploads/4/6/6/7/4667856/aabnewapplicationpacket2008_000.pdf





Storm Water Quality Education

Adopt-A-Ditch Project





Storm Water Quality Education

Acres Homes Adopt-A-Ditch Project

BEFORE





Storm Water Quality Education

Acres Homes Adopt-A-Ditch Project

AFTER





Storm Water Quality Education

South Park Adopt-A-Ditch Project

BEFORE





Storm Water Quality Education

South Park Adopt-A-Ditch Project

AFTER





Storm Water Quality Education

Clinton Drive SEP Parking Lot Project

BEFORE





Storm Water Quality Education

Clinton Drive SEP Parking Lot Project

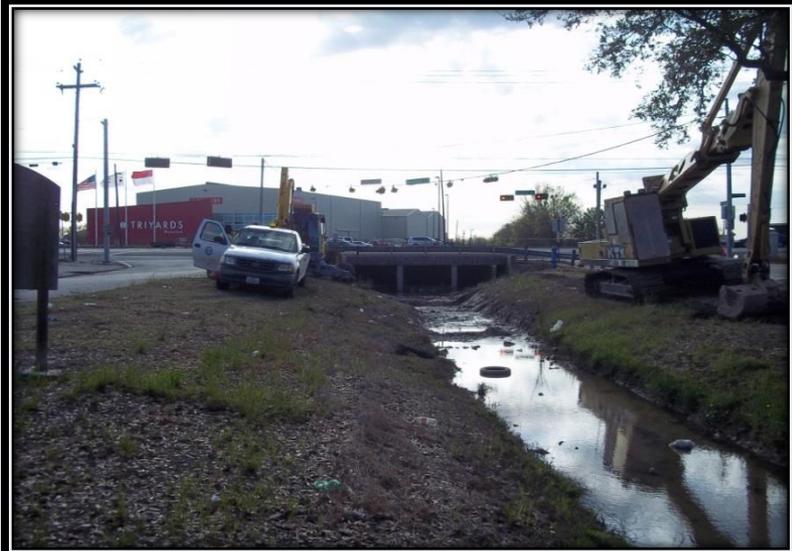
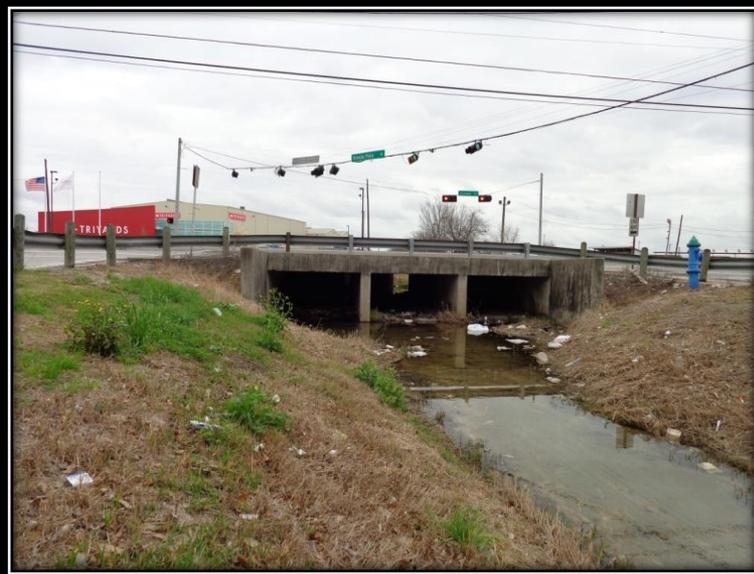
AFTER



Storm Water Quality Education

Almeda Plaza Adopt-A-Ditch Project

BEFORE





Storm Water Quality Education

Almeda Plaza Adopt-A-Ditch Project

AFTER



Street and Bridge Maintenance Branch

-  Bridge Maintenance
-  General Maintenance
-  Specialized Maintenance



Street and Bridge Maintenance Branch

- **Responsible for maintenance of:**
 - 6, 138 center line miles (approximately 16,000 lane miles) of roadways
 - 1360 bridges

- **Bridge Maintenance Section:**
 - Inspect bridges as required by TXDOT regulations
 - Provide bridge maintenance and reconstruction



Street and Bridge Maintenance Branch

Specialized Maintenance Section:

- Repair potholes and overlaying roadways
- Inventory of street conditions

General Maintenance Section:

- In-house crews repairing street buckles
- Sweep the downtown area and major thoroughfares
- Mow and control the weeds on city streets and drainage rights-of-way





Bridge Maintenance

Replacement of Guardrail



Bridge Maintenance Program Cycles (5,350)







Bridge Construction

Woodland Hills Project



Bridges Replaced & Special Projects (8)





General Maintenance

Pothole Patcher



Tonnage of Asphalt for Potholes/Skin Patches







General Maintenance

Concrete Repair



Cubic Ft Concrete Street Repaired/Replaced (275,000)





General Maintenance

Concrete Repair





General Maintenance

Mowing



- Litter Removal (8,500 cu yd)
- Right of Way Mowing (1 cycle)





Specialized Maintenance Street Sweeper



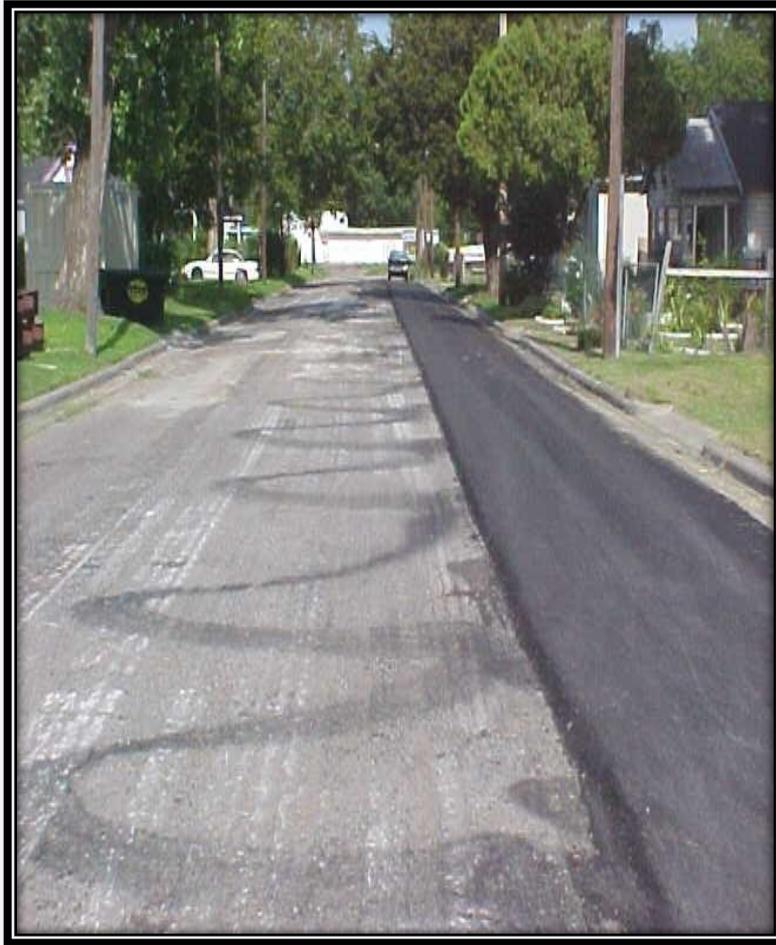
Gutters Swept (21,500 miles)





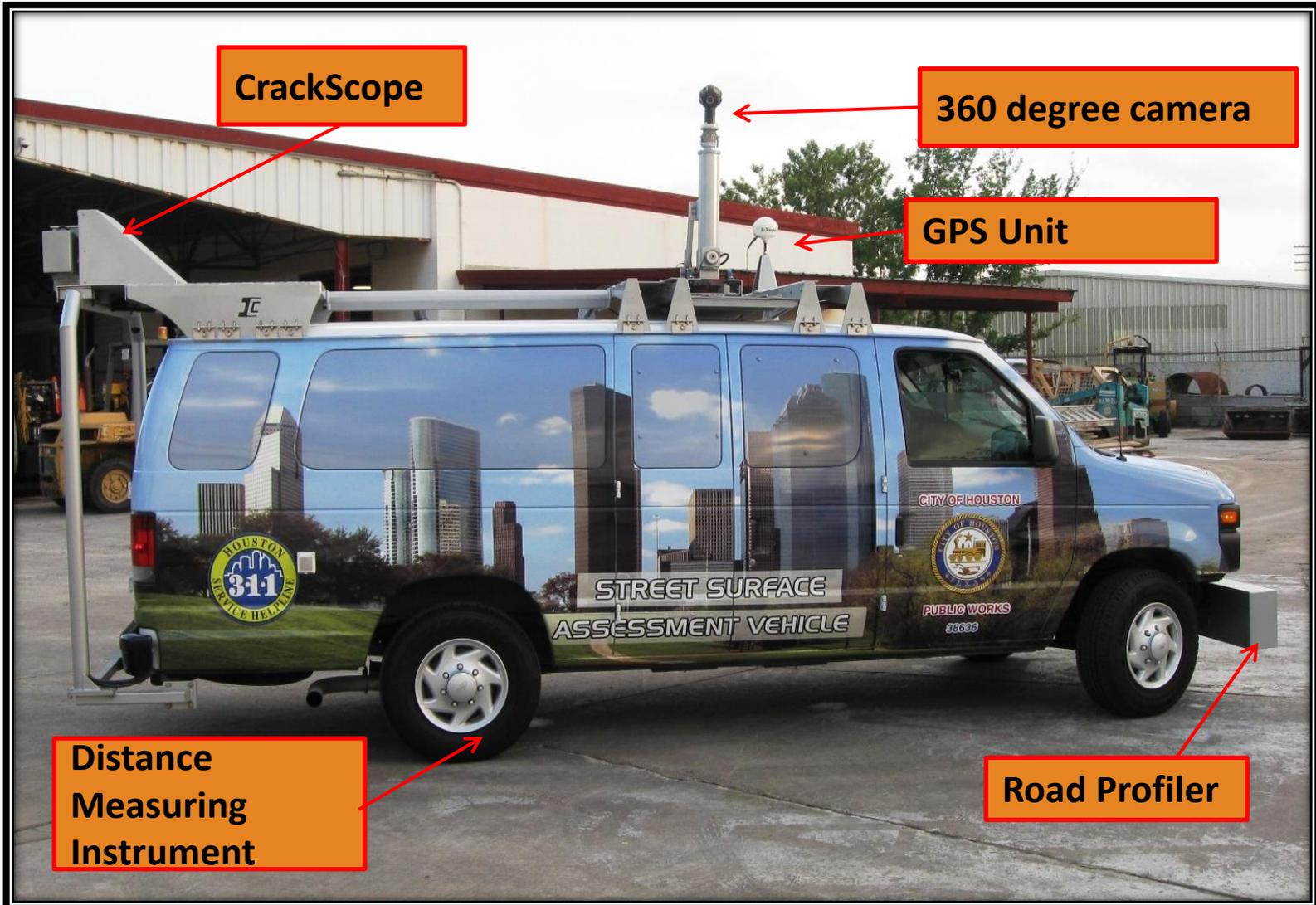


Street Resurfacing





Technical Components of the Street Surface Assessment Vehicle



CrackScope

360 degree camera

GPS Unit

Distance
Measuring
Instrument

Road Profiler





Frequently Asked Questions



- ④ **There is a pothole on my street that needs to be repaired?**
- ④ **How do I get the alley behind my home repaired?**
- ④ **I need my driveway repaired. How do I get the City to repair it?**
- ④ **My sidewalk is cracked and broken. How do I get it repaired?**
- ④ **The curbs in my neighborhood are cracked and broken. How can I get them repaired?**



- ④ **How do I report a tree down in the street (storm related)?**
- ④ **How do I get the weeds mowed on the City's easement?**
- ④ **How do I get street lights repaired?**
- ④ **My street floods. How do I get something done about this problem?**
- ④ **I have standing water in front of my house? How do I get something done about this problem?**

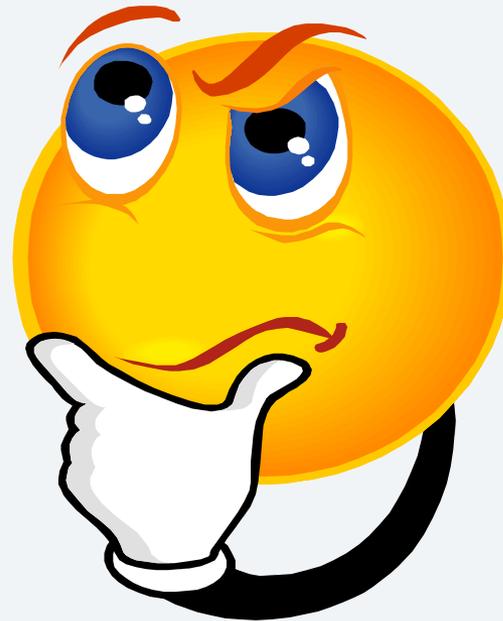


- ④ **How do I get the storm sewers in my neighborhood cleaned?**
- ④ **How do I get the roadside ditches on my street cleaned/de-silted?**
- ④ **How do I get the ditch in front of my house covered?**
- ④ **I need culverts set for a driveway. How do I get this done?**





What can you do to HELP?





Contact us at 311 or email us at:
311@houstontx.gov

Android:

[Here is a link to the Android app market](#)

https://play.google.com/store/apps/details?id=com.seclickfix.houston311.app&feature=search_result

See news release:

<http://www.click2houston.com/news/New-311-app-used-to-report-potholes-city-issues/-/1735978/17760744/-/mos9cx/-/index.html>





The following information is needed

Name:

Contact Information:

Issue/Concerns:

Pictures/Videos:

Date, Time and Location:

Web Link:

<http://www.publicworks.houstontx.gov/row/index.html>

We will close the loop!

