

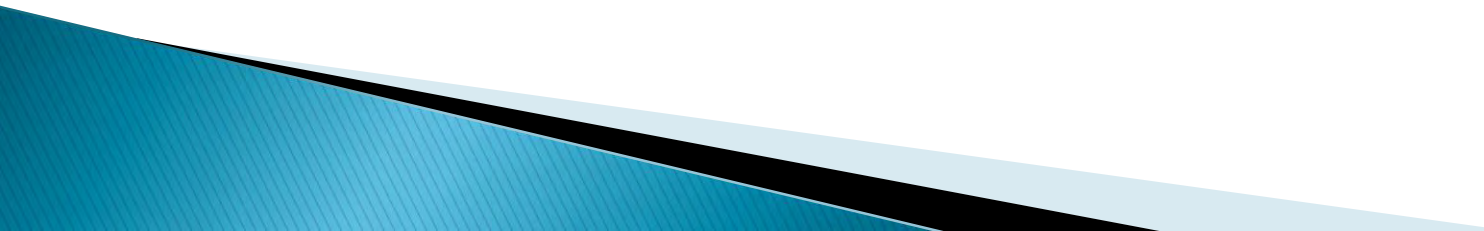
Mapping and Tracking IDDE

John Cummings
May 3, 2016



City of Phoenix
WATER SERVICES DEPARTMENT
Quality Reliability Value

Syllabus

- ▶ What is IDDE?
 - ▶ The camera truck
 - ▶ Waternet
 - ▶ Video Streaming
 - ▶ How can mapping help my IDDE program?
 - ▶ What kind of tools are available to help my IDDE program?
 - ▶ How do we document the investigation?
- 

The Camera Truck



Tools of the trade



Compact Pipe Ranger



Mudmaster

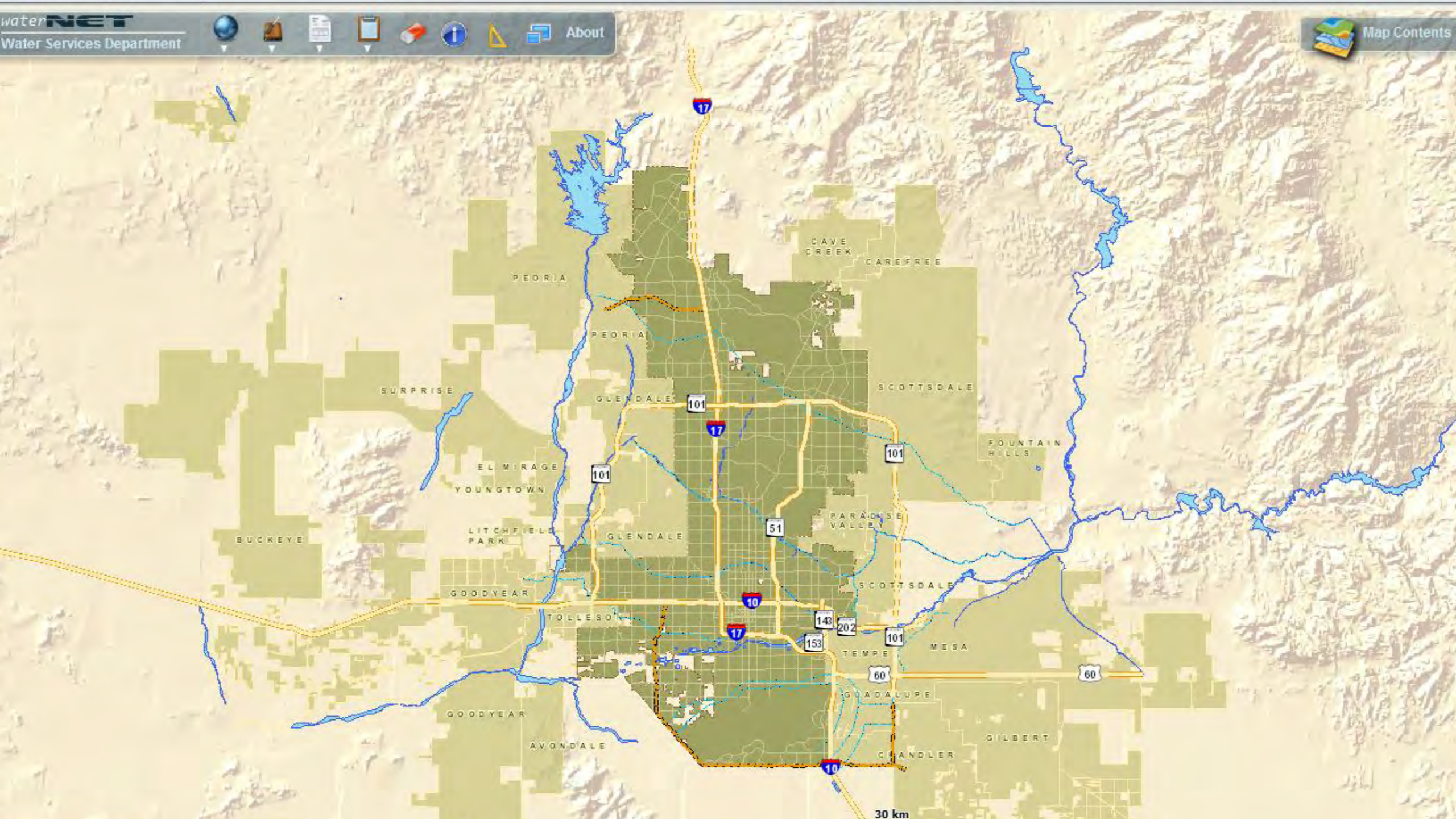
Tools of the trade

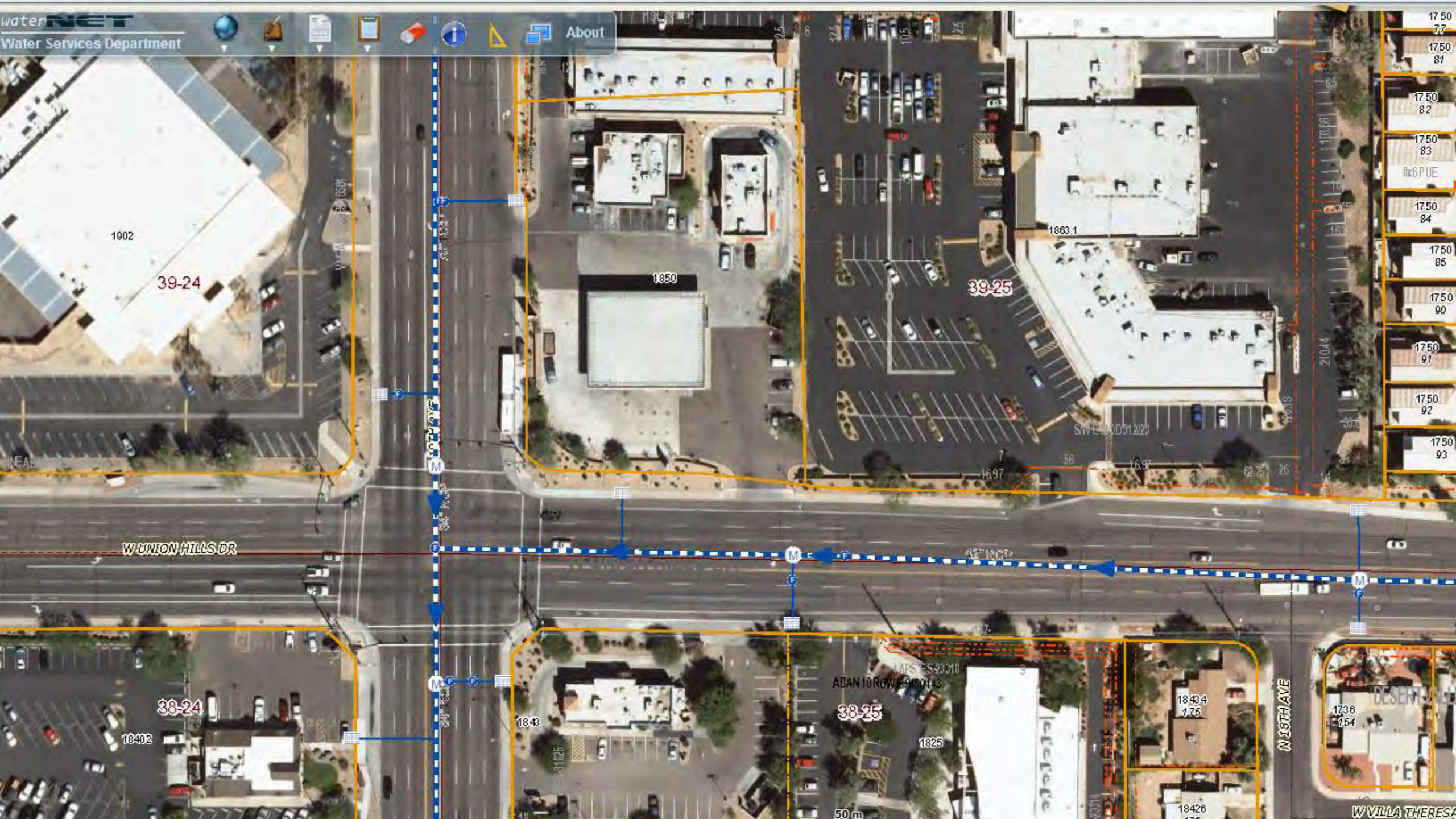


Pole Camera



Push Camera





1902

39-24

1850

1863.1

39-25

W UNION HILLS DR

15' 10" 10"

38-24

18402

1843

38-25

1825

1843.4

1.75

18426

1.75

1736

1.54

W VILLA THERESA

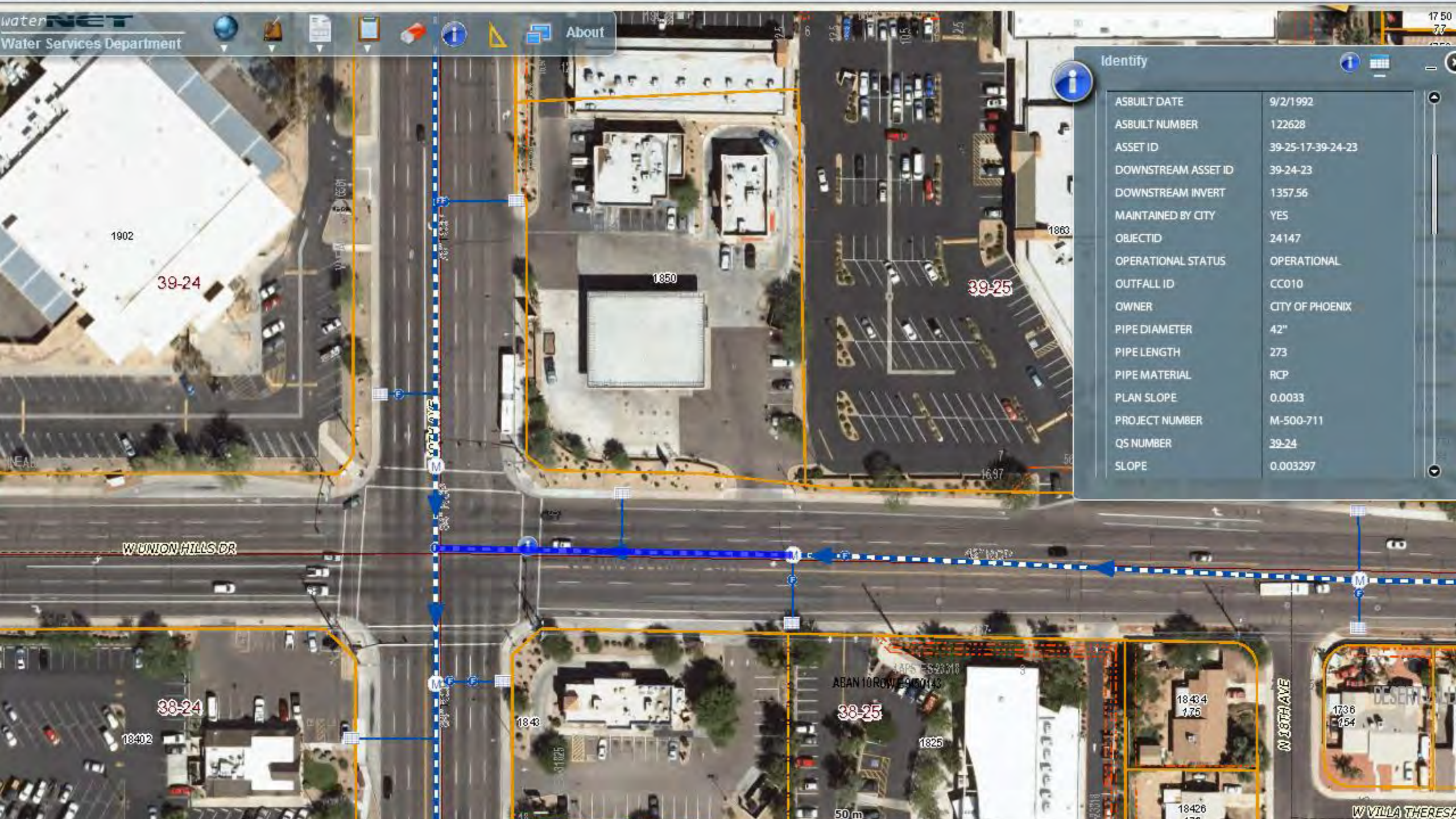
1750
77
1750
81
1750
82
1750
83
6x6 PUE
1750
84
1750
85
1750
90
1750
91
1750
92
1750
93

1845 53-2318
ABAN 10 ROW 99-00143

50m

N 15TH AVE

DESERV



Identify

ASBUILT DATE	9/2/1992
ASBUILT NUMBER	122628
ASSET ID	39-25-17-39-24-23
DOWNSTREAM ASSET ID	39-24-23
DOWNSTREAM INVERT	1357.56
MAINTAINED BY CITY	YES
OBJECTID	24147
OPERATIONAL STATUS	OPERATIONAL
OUTFALL ID	CC010
OWNER	CITY OF PHOENIX
PIPE DIAMETER	42"
PIPE LENGTH	273
PIPE MATERIAL	RCP
PLAN SLOPE	0.0033
PROJECT NUMBER	M-500-711
QS NUMBER	39-24
SLOPE	0.003297

1902

39-24

1850

39-25

1863

W UNION HILLS DR

45' 10" 10"

38-24

18402

1843

38-25

ABAN 10 ROW 99 00143

1825

18434

1.75

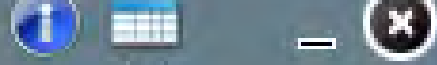
N 18TH AVE

1736

1.54

W VILLA THERESA

Identify



Date of install

ASBUILT DATE 9/2/1992

Unique ID for this pipe

ASBUILT NUMBER 122628
ASSET ID 39-25-17-39-24-23

DOWNSSTREAM ASSET ID 39-24-23

DOWNSSTREAM INVERT 1357.56

MAINTAINED BY CITY YES

OBJECTID 24147

OPERATIONAL STATUS OPERATIONAL

OUTFALL ID CC010

OWNER CITY OF PHOENIX

PIPE DIAMETER 42"

PIPE LENGTH 273

PIPE MATERIAL RCP

PLAN SLOPE 0.0033

PROJECT NUMBER M-500-711

QS NUMBER 39-24

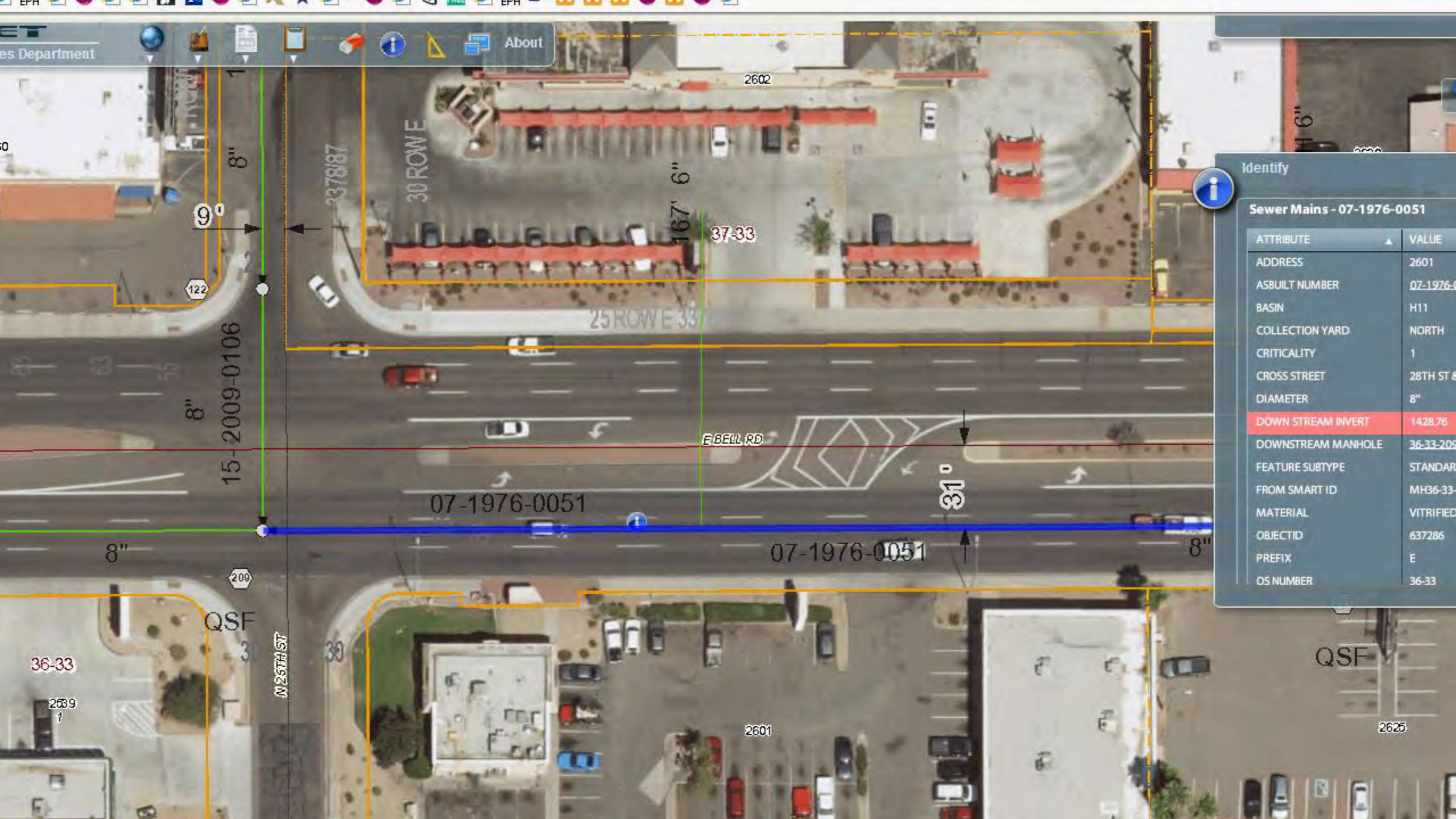
SLOPE 0.003297

Where does it go?

Owned by?

How big?

What is it made of?



Identify

Sewer Mains - 07-1976-0051

ATTRIBUTE	VALUE
ADDRESS	2601
ASBUILT NUMBER	07-1976-0051
BASIN	H11
COLLECTION YARD	NORTH
CRITICALITY	1
CROSS STREET	28TH ST & EBELL RD
DIAMETER	8"
DOWN STREAM INVERT	1428.76
DOWNSTREAM MANHOLE	36-33-2051
FEATURE SUBTYPE	STANDARD
FROM SMART ID	MH36-33-2051
MATERIAL	VITRIFIED CLAY
OBJECTID	637286
PREFIX	E
OS NUMBER	36-33

Sewer Video

ROUTINE-MH36-33-207-MH36-33-210-16802 N 25 ST.mpg (9/14/2012 10:10:05 AM)
ROUTINE-MH36-33-210-MH36-33-211-16802 N 25 ST.mpg (9/14/2012 10:29:57 AM)

Play

36-33-210

Search

There are 2 GraniteXP Sewer Video files with manhole name: '36-33-210'. Please choose a file above and then click Play button

6/15/2015
5.5 ft.

101





Map Contents

- Sewer Active
- Street View
- County Parcels
- City Parcels

Locate

Identify

City Property Addresses - 38837

ATTRIBUTE	VALUE
ADDR	401 W WASHINGTON ST 8500
APN	112-19-116
LASTEDITDATE	7/29/2014 5:00:20 PM
LASTEDITUSER	GGIBBS
OBJECTID	61990
PALOT	1
PARANGE	3E
PASECTION	8
PASUBDIVISION	FEDERAL COURTHOUSE
PATOWNSHIP	1N
PIN	38837
QSNO	Q10-27
UNAPPROVED/HILLSIDE	ORDINARY PARCEL

X: 649337.99 Y: 889838.18
Lat: 33.446203 Long: -112.082162

100 m
500 ft

112-19-116

Parcel Type: Commercial

[UNITED STATES OF AMERICA](#)

[401 W WASHINGTON ST PHOENIX 85003](#)

- Map
- Pictometry
- Taxes
- Deed
- Register Rental

Property Information

MCR #:	41749
Address:	401 W WASHINGTON ST PHOENIX 85003
Latitude/Longitude:	33.44822260 -112.08020043
Description:	FEDERAL COURTHOUSE MCR 417-49
Lot Size (Sq Ft):	304,484
Zoning:	DTC-BCORE
Section, Township, Range:	8 1N 3E
Market Area/Neighborhood:	22/005
Subdivision:	FEDERAL COURTHOUSE
Lot #:	1
High School District:	PHOENIX UNION #210
Elementary School District:	PHOENIX ELEMENTARY SCHOOL DISTRICT
Local Jurisdiction:	PHOENIX
Owner:	UNITED STATES OF AMERICA
Mailing Address:	450 GOLDEN GATE AVE 5TH FL W , SAN FRANCISCO, CA 94102
Deed #:	980105631
Deed Date:	February 11, 1998
Sale Date:	None
Sale Price:	\$0

Valuation Data

Tax Year:	2017	2016	2015	2014	2013
Full Cash Value:	\$177,130,600	\$181,355,823	\$166,757,800	\$215,512,500	\$247,238,155
Limited Property Value:	\$177,130,600	\$175,005,600	\$166,757,800	\$215,512,500	\$247,238,155

Search

[Show Search Help](#)

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MapFerret Map Links

Mapferret maps, also known as MapId maps, pdf maps, or output maps are now available here without having to search.

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[MCR Maps](#)

[S/T/R Maps](#)

[Book/Map Maps](#)

Frequently Asked Questions

- › [Business Personal Property](#)
- › [Canvass](#)
- › [Corrections](#)
- › [Districts and Tax Area Codes](#)
- › [Mobile Homes](#)
- › [Other](#)
- › [Ownership](#)
- › [Property Exemptions](#)
- › [Property Tax](#)
- › [Property Values](#)
- › [Rental Registration](#)



Documenting

- ▶ What do we document
 - Depth of flow
 - Color of flow, sudsy, clear, oily etc..
 - Illicit connections
 - Illicit flows
 - Condition of pipe
 - Direction of flow (both directions)
 - Dates and times
 - Names of inspectors

How and Why

- ▶ How do we document
 - Paper or electronics
 - Files or database
 - Photographs
 - ▶ Why do we document
 - Permit requirement
 - Employment requirement
 - Enforcement
 - Historical
- 

Conclusion

- ▶ Illicit Discharge Detection and Elimination
 - ▶ Resources to implement comprehensive program
 - ▶ Are some resources more important than others?
 - ▶ What is our greatest resource?
- 