### **Concord Ave Neighborhood**

Phase 3: Alewife Sewer Separation Project Inflow Removal Meeting – October 22, 2013



### **Concord Ave Neighborhood**

#### **Inflow Removal Meeting**

Welcome and Introduction

**Catherine Daly Woodbury** 

- Project Description
  - Project Goals and Benefits
  - What is Inflow
  - Why Remove Inflow
- Private Property Inflow Removal
  - Why Your Property
  - What to Expect
  - Timeline
- Property Owner Consultations

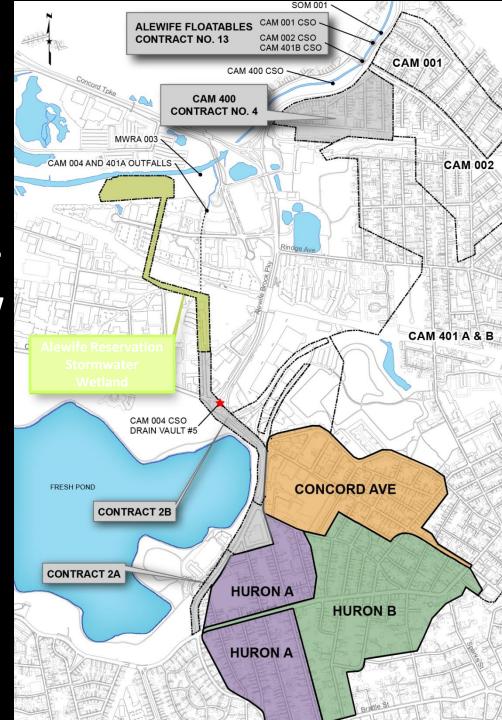
**City Staff and Consultants** 



#### Goals

- Court-ordered clean up of Boston Harbor requires implementation of the Long Term Control Plan for Combined Sewer Overflow (CSO) for Alewife Brook
- MWRA's Plan for Alewife Brook
  - 50 Mg → 7.3 Mg
  - 63 activations 

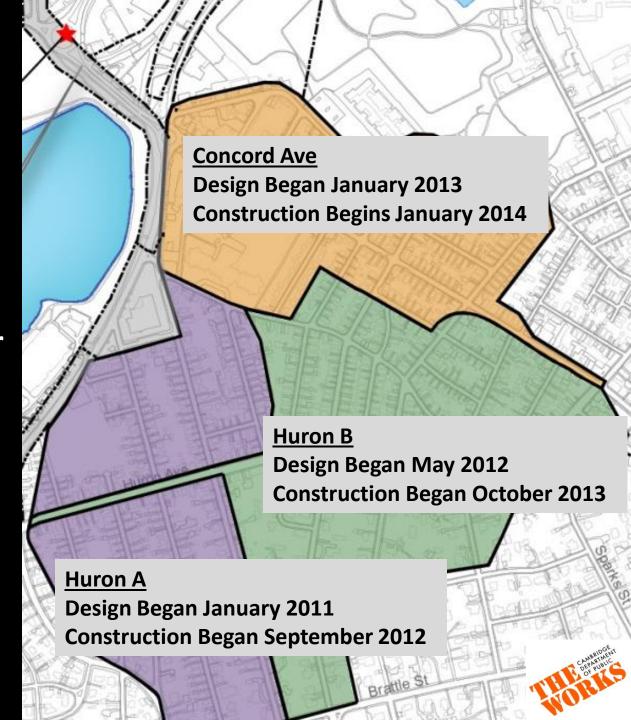
    7 activations per year



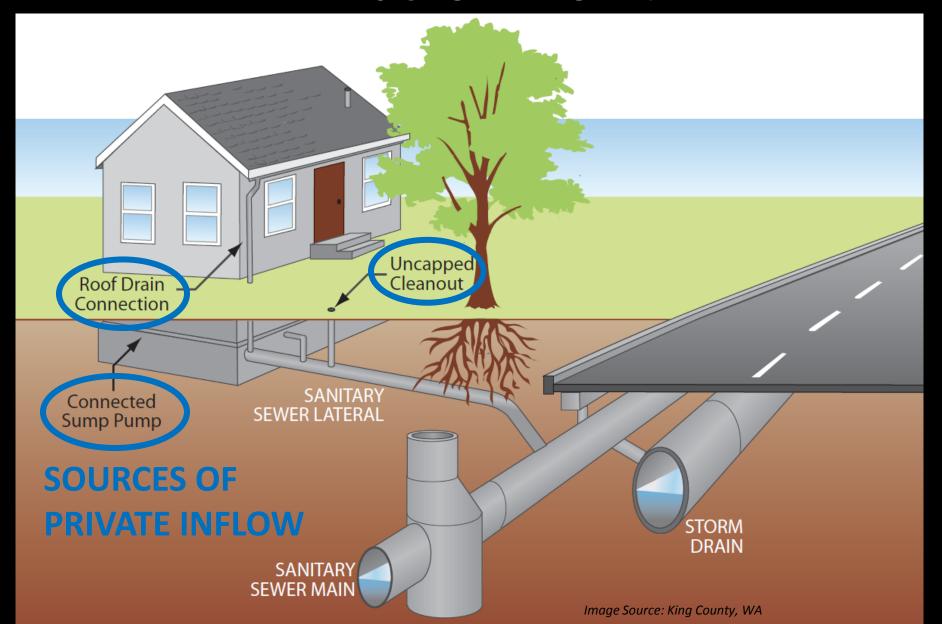
### Huron/Concord Project Areas

-Sewer improvements on all 3 contracts to be complete by December 2015

-Surface restoration complete by 2016



### What Is Inflow?



### Why Remove Inflow?

- Reduces probability of sewer backups
- Inflow causes increased pollution to Alewife Brook
- Reduced cost of sewage treatment for entire community





# Private Property Inflow Removal: Why Your Property?

- Collected data through Field Investigations and Building Inspections
- Performed <u>hydraulic analysis</u> to determine how much inflow must be removed
- Performed a <u>feasibility</u>
   <u>analysis</u> to determine which sources should be targeted
  - Developed Conceptual Plan
  - Determined Estimated Cost







Information on Building
Inspections for Sewer
Separation Program for the

Huron A, Huron B and Concord Ave. Neighborhoods

To Schedule an Appointment for a Building Inspection please call:

Christine Clancy - 617-594-1316 or Email - christine.clancy@seacon.com

If you have any questions please feel free to contact Catherine Daly Woodbury at the City of Cambridge:

Catherine Daly Woodbury, Project Manager City of Cambridge DPW - 617-349-4818

### **Building Inspections**

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PUMP USED:	STORM	QUAN'	TITY	2	HP	13	PIPE	SIZE	1.5	GPM	UNK	VOL	rs	ont
	SANITARY	QUAN'.	TITY		HP		PIPE	SIZE		GPM		VOL	<b>FS</b>	
IS PUMP HARD PIPED TO YES			NO											
DISCHARGE?				DAILY - WEEKLY - MONTHLY - SEASONAL										
DISTANCE FROM TOP OF FOUNDATI			ON TO SANITARY SERVICE. (CLEAN OUT CAP)							5 (ft)				
DISTANCE FROM TOP OF FOUNDATI			,					,	6.1		(ft)			
DISTANCE FROM TOP OF FOUNDATION TO GAS SERVICE:							5.	(ft)						
FIELD OBSERVATION			EXIS	TS Y/N	DISCHARGE LOC. IN							NFO	.*	
SANITARY S	SERVICE: DIA	U IN.	Y		SS	(CS)	SD				UNK	R	D	C
GUTTER / DOWNSPOUT:			Y		SS	CS	SD	Ø/WE	LL	SURF.	UNK	R	D	C
FLAT ROOF DRAIN:			N		SS	CS	SD	D/WE	LL		UNK	R	D	C
STORM/SUMP PUMP:			Y		SS	CS	SD	D/WE	LE	SURF.	UNK	R	D	C
SANITARY/GRINDER PUMP:			N		SS	CS	SD				UNK	R	D	C
DRIVEWAY DRAIN:			N		SS	CS	SD	D/WE	LL		UNK	R	D	C
AREA DRAIN:			1		SS	CS	SD	Q/WE	DD		UNK	R ·	D	C
WATER SERVICE MAT.:DIA   IN.				COPPER		STEEL/LEAD			OTHER		UNKNOWN			
*INFORMATION SOURCE: (R)-RECORD INFORMATION, (D)-DYE TEST & (C)-INFORMATION FROM CONTACT														
SANITARY PIPE, WATER, GAS, AREA DRAINS & DOWNSPOUT LOCATIONS:														
PUMP LOCATIONS CONTRACTOR CONTRAC														
										- 1				
									- 1					
Attached								- 1						
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	Concord Ave	Project-wide
Total Buildings	373	954
Buildings with Confirmed Inflow Sources	37	230
Buildings Selected for Inflow Removal	31	173

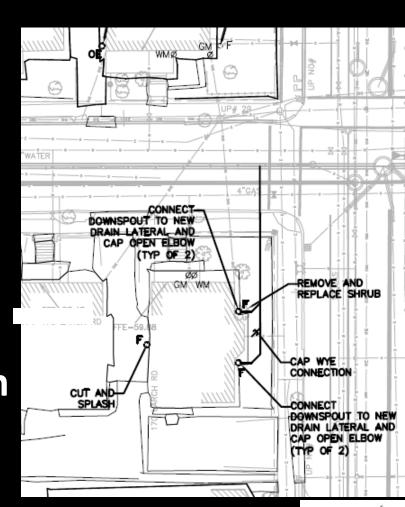


# Private Property Inflow Removal: Concord Ave Neighborhood Targeted Properties



#### **Inflow Removal Goals:**

- Keep Stormwater Local
  - Discharge to Surface
  - Recharge with overflowIf not possible:
- Provide Lateral Connection



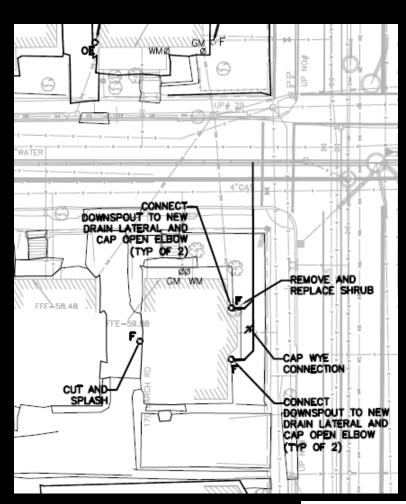


#### **Exterior work:**

- Cut downspouts and splash to surface
- Reroute downspouts
- Install new drainage lateral
- Install drywells with overflow

#### **Interior work:**

- Plug discontinued roof drains
- Disconnect/reconnect sump pumps and roof drains







<u>Before</u>: Downspout disappeared into foundation; connected to sewer



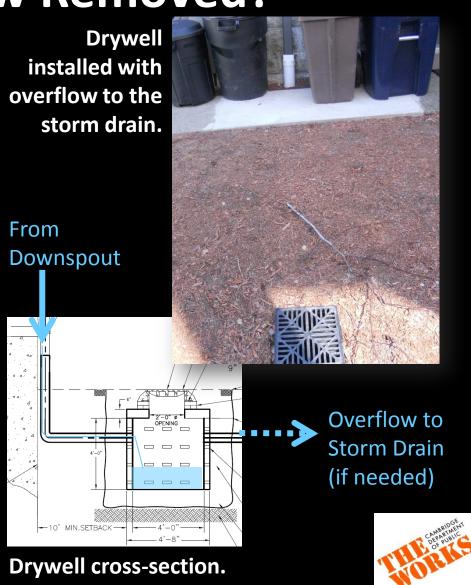
Sidewalk, driveway

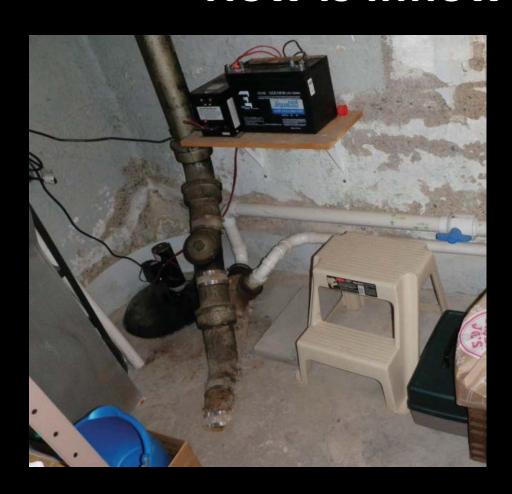
restored.





Downspouts disconnected. Elbow capped.







**Before**: Roof Leaders and Sump Discharge Tied into Sewer

After: New dedicated drain lateral for sump discharge and/or roof drains



## What to Expect: FAQ'S?

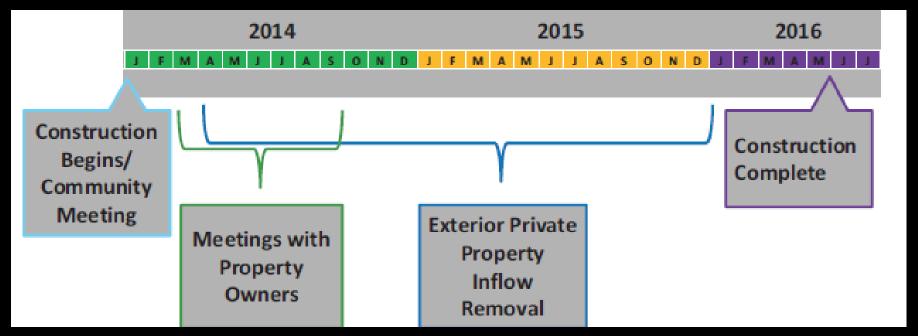
 This work happens at no cost to the owner, if they choose to allow it as part of the project

 Property will be restored to equivalent or better condition

- Individual properties typical work schedule:
  - 1-5 Days of Inflow Removal work
  - 1-2 Days of Surface Restoration



# Construction Timeline: Concord Ave Neighborhood (Anticipated)



#### **Next General Meetings:**

Construction kick-off with contractor: February 2014

#### **Private Inflow work:**

- Private Consultation: 6 weeks prior to work
  - -Finalize conceptual plans
  - -Right of Entry documentation
  - -schedule work



### **Contact Information**

- Questions, Comments or Suggestions
  - Catherine Daly Woodbury, Project Manager
     cwoodbury@CambridgeMA.gov
  - KyAnn Anderson, Community Relations Manager
     KAnderson@Kleinfelder.com
- After Hours Emergency Contact
  - Cambridge DPW at 617-349-4800
- Information on City Web Site
  - www.cambridgema.gov/theworks/ConcordArea



### General Questions

### Private Consultations

Property Specific Questions

#### **Reminders:**

- Plans are conceptual until the contractor and/or plumber visits your property
- •Please coordinate with all other owners of shared properties (condo's etc.)
- Properties not in attendance tonight will have plans mailed to them



# **Concord Ave Neighborhood Project Area**

