



# City of Calistoga Update of Measure A Projects

Financial Oversight Committee  
August, 2016

# Overview for Calistoga

- ❖ Our share of Measure A is small – and overall is less than 3% of total revenue derived
- ❖ Cash flowed major projects.
- ❖ Allowed our “pooled” share of revenues to be subscribed to the Napa Project from 98/99 to 04/05. Calistoga began taking reimbursements in FY 06.

CAUTION  
SUBJECT TO  
FLOODING

CAUTION  
FLOODING



# Specific Calistoga Projects contained in Measure A Ordinance (Section 8.C.1&2)

1. *Stabilization and enhancement of Kimball Reservoir which shall be for the purpose of flood protection and water supply reliability.*
2. *Flood protection and drainage improvements in the Grant Street area and other critical areas to protect residents and businesses from flooding.*

# Approved Measure A Projects

- ❖ Kimball Water Supply Reliability §8.C.1
- ❖ Kimball Dam Intake Tower, Drain Valve, Bypass Structure, and Water Rights Protection §8.C.1
- ❖ Debt Payments for Kimball Water Facilities Improvement Projects Phases I and II §8.C.1
  - Kimball – Bennett Lane – Myrtdedale Water Transmission Line
  - Kimball Water Treatment Plant Improvements



**Kimball Reservoir**

# Completed Measure A Projects

- ❖ Grant St. Storm Drain Improvements (2006) \$117,470 §8.C.2
- ❖ Fisher St. at Lake St. Culvert (2009) \$12,020 §8.C.2
- ❖ Drainage Improvements in SE Calistoga (2010) \$600,000 §8.C.2
- ❖ Kimball Water Treatment Plant Upgrades \$2,820,960 §8.C.1 Phase I (Kimball Main - \$1,664,955 and Phase II Treatment Plant - \$1,156,005)
- ❖ Oak Street Napa River Outfall at Logvy Park – Partnered with Napa County Flood Control (50/50) to repair 48” collapsed outfall structure – \$7,500 each completed March 2014
- ❖ Grant St. Drainage Improvements (2016) – Installed new 54” culvert under Grant St. and other improvements. \$1,042,900
- ❖ Total Measure A expenditures through June 2016 – \$6,957,315 with an estimated available balance of \$1,494,000.

A photograph of a drainage channel with reeds and a house in the background. The channel is filled with water and has several large clumps of reeds in the middle. In the background, there is a house and a forested hillside under a cloudy sky.

# **Southeast Drainage Improvements**

**Channel widening  
and culvert  
installation**

# Kimball Water Treatment Plant

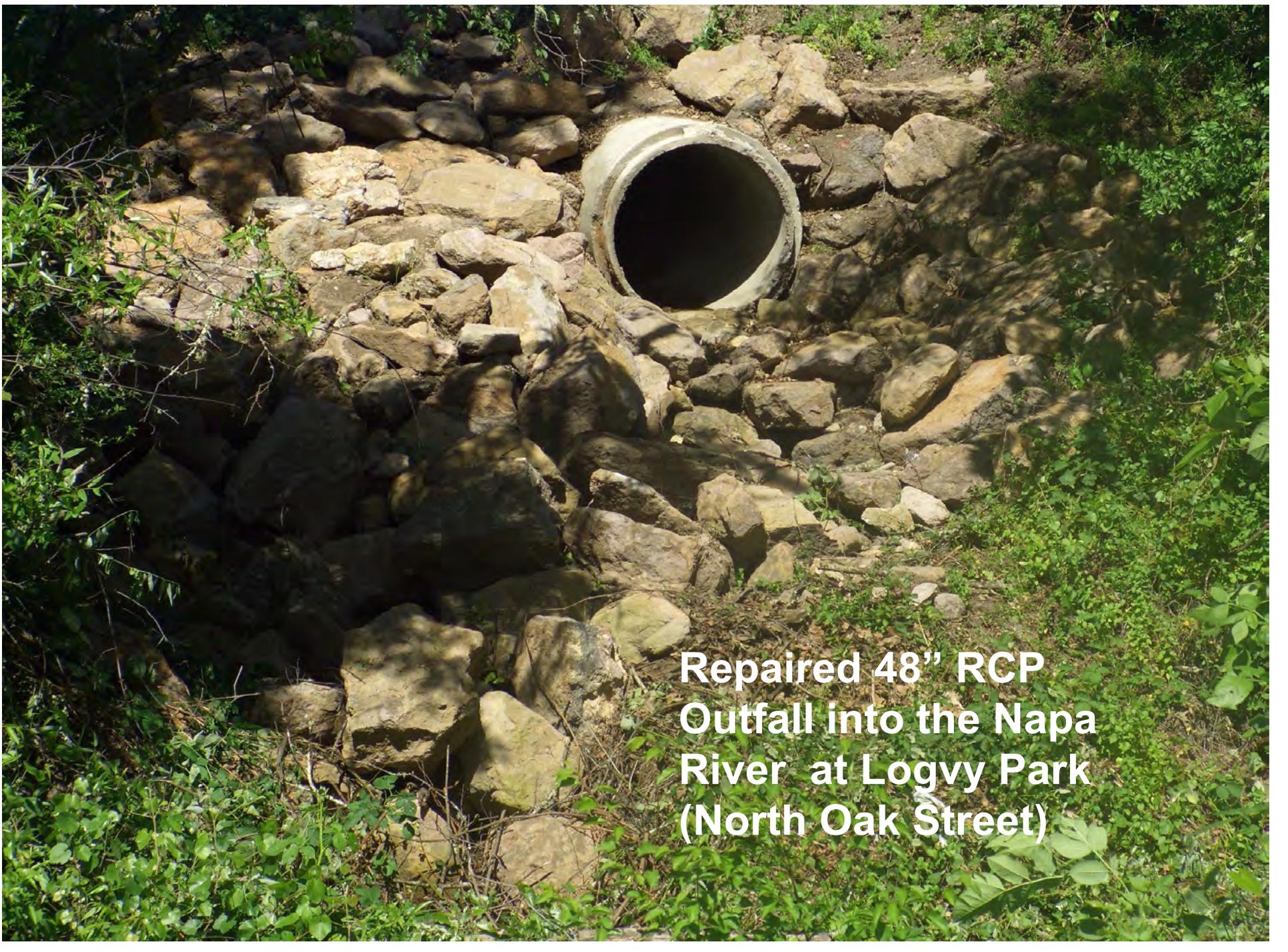




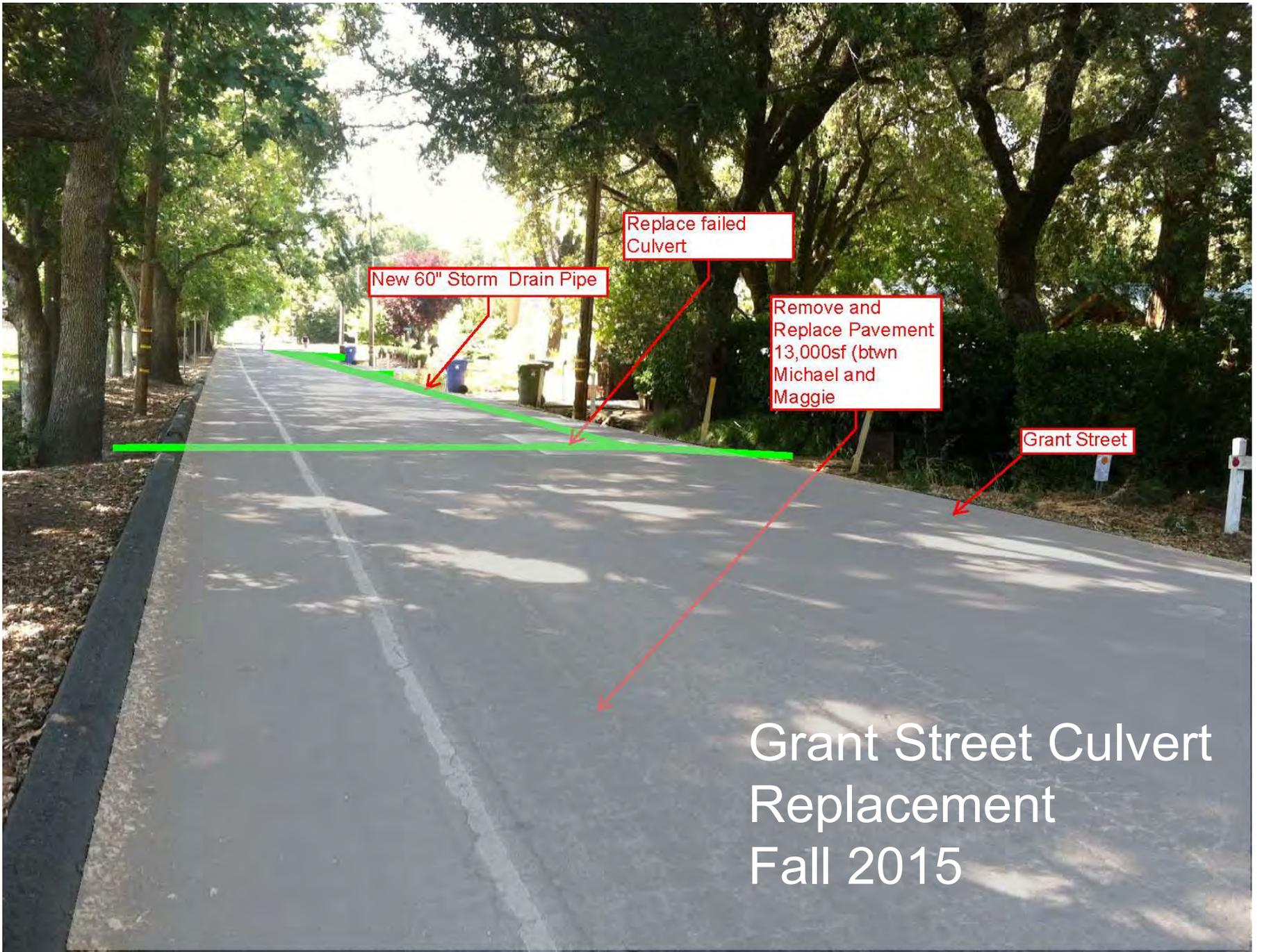
**New Filter Bank at  
Kimball Water  
Treatment Plant**

# Kimball Bypass Structure



A photograph showing a large, circular, white concrete pipe (RCP) that has been repaired and is now open. The pipe is situated in a channel lined with large, light-colored stones. The surrounding area is filled with dense green vegetation, including bushes and trees, which are partially in shadow. The scene is outdoors, likely in a park or natural area.

**Repaired 48" RCP  
Outfall into the Napa  
River at Logvy Park  
(North Oak Street)**



New 60" Storm Drain Pipe

Replace failed Culvert

Remove and Replace Pavement 13,000sf (btwn Michael and Maggie)

Grant Street

Grant Street Culvert Replacement  
Fall 2015



**Grant Street Culvert  
Original Inlet**

**Original Inlet Upstream Side  
of Grant**



# Original Ditch Configuration



**Numerous Utility  
Conflicts**





**New 60"  
Storm Drain**



**Channel Can Handle  
100-Year Event**

# New Inlet at Grant St.





**New Outlet Structure at Grant St.**

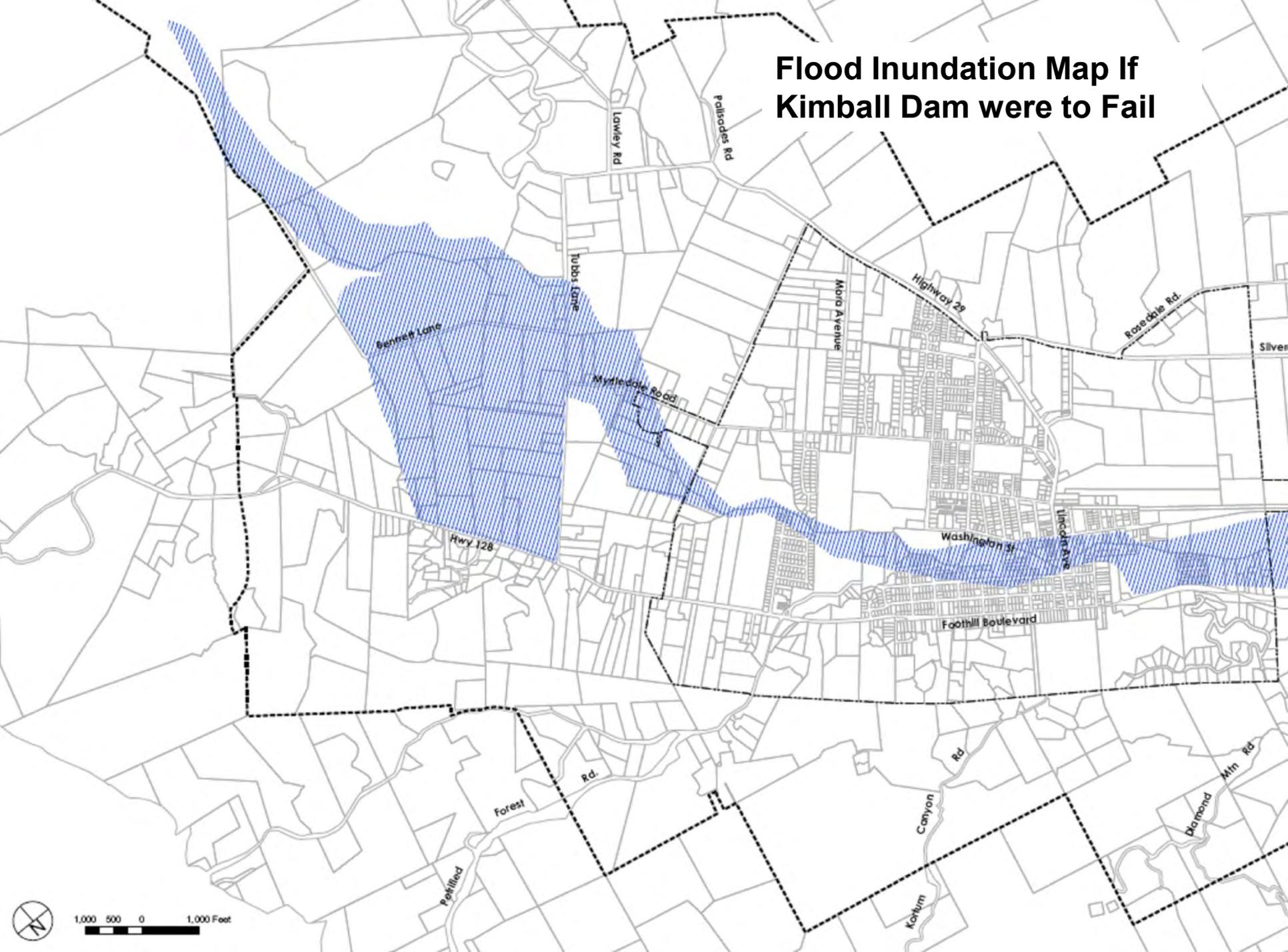
**New Grant St.  
outlet structure**



# Planned Measure A Projects

- ❖ Kimball Reservoir Emergency Drain Valve and Replace Intake Tower §8.C.1
- ❖ Abandon Old Water Supply Main from Kimball Reservoir §8.C.1
- ❖ Estimated available Measure A balance is \$1,494,000.

# Flood Inundation Map If Kimball Dam were to Fail



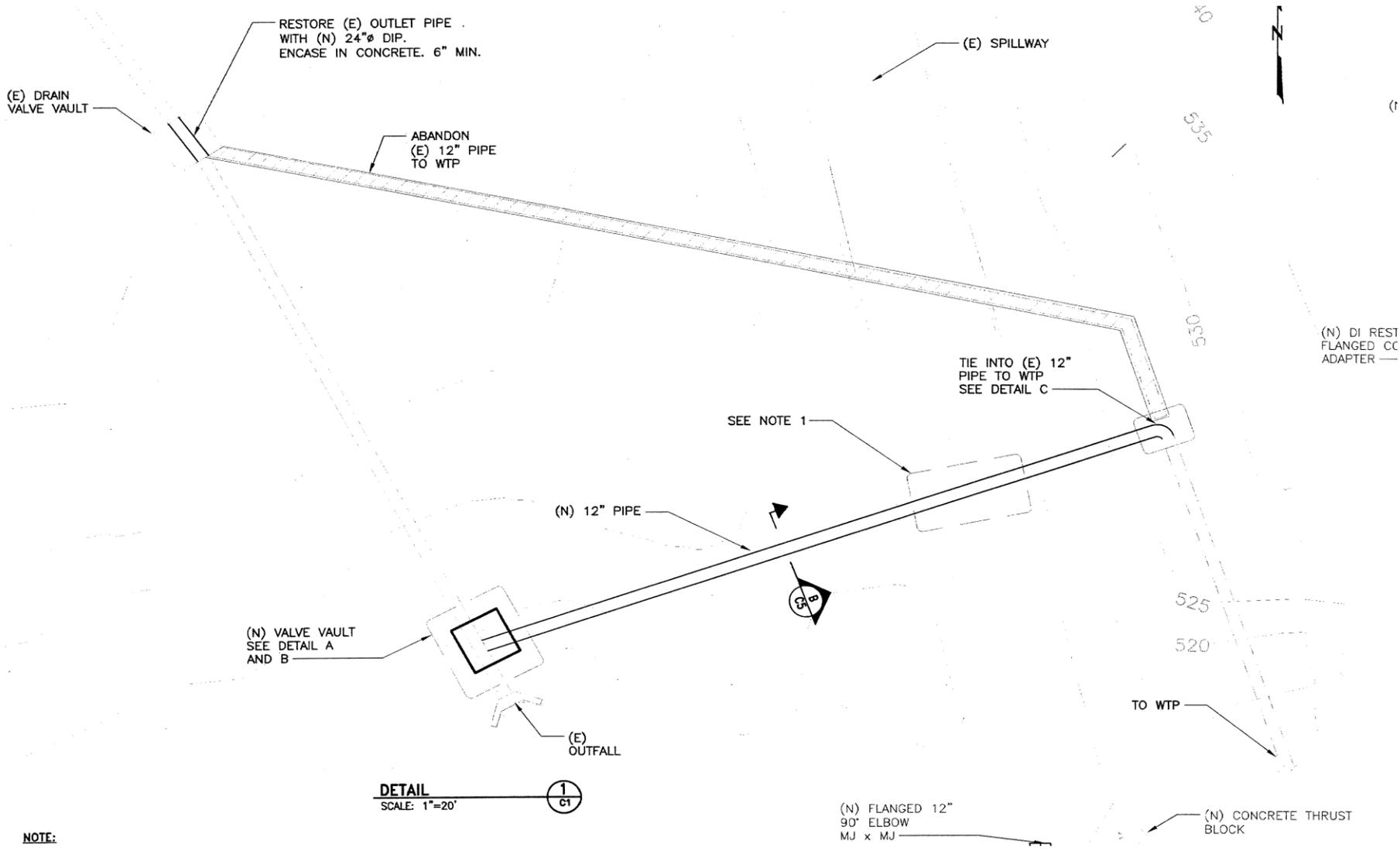


**Kimball Reservoir  
Intake Tower**



**Kimball Dam  
Emergency  
Drain Valve**





RESTORE (E) OUTLET PIPE  
WITH (N) 24"Ø DIP.  
ENCASE IN CONCRETE. 6" MIN.

(E) DRAIN  
VALVE VAULT

ABANDON  
(E) 12" PIPE  
TO WTP

(E) SPILLWAY

TIE INTO (E) 12"  
PIPE TO WTP  
SEE DETAIL C

SEE NOTE 1

(N) 12" PIPE

(N) VALVE VAULT  
SEE DETAIL A  
AND B

(E) OUTFALL

TO WTP

**DETAIL**  
SCALE: 1"=20'

1  
C1

(N) FLANGED 12"  
90° ELBOW  
MJ x MJ

(N) CONCRETE THRUST  
BLOCK

**NOTE:**

40

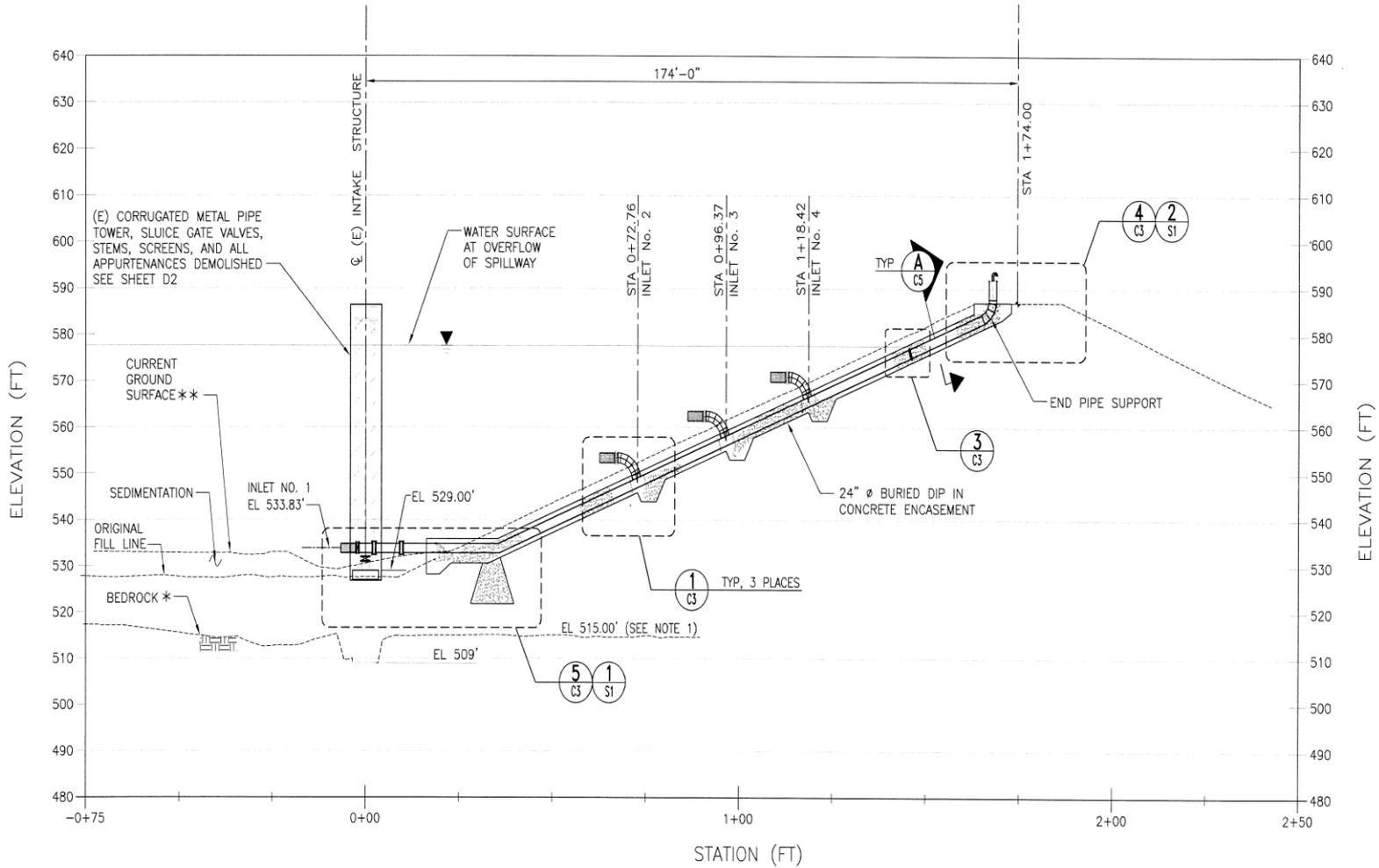
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530

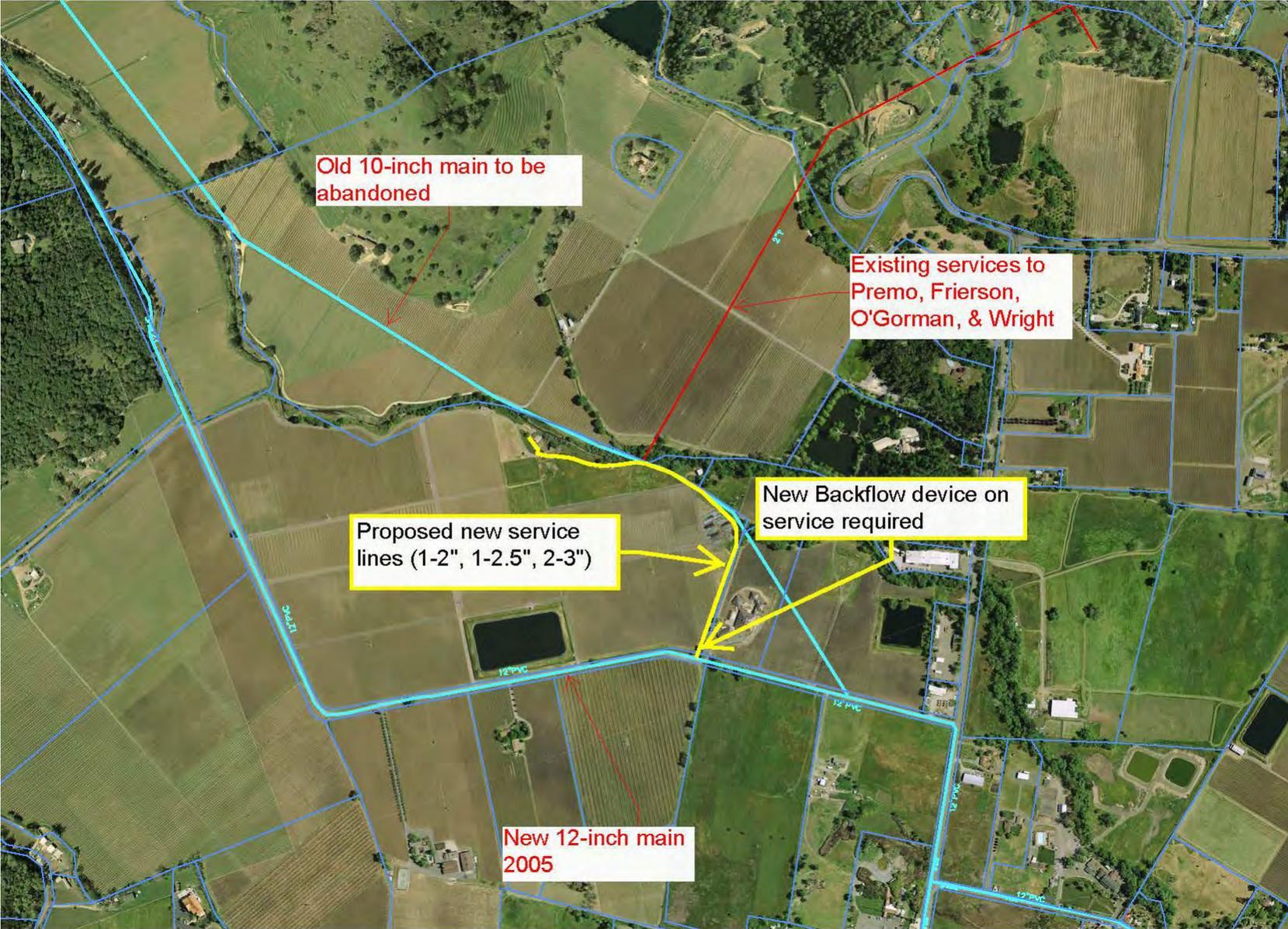
525

520

(N) DI REST  
FLANGED CC  
ADAPTER



# Kimball Water Service Relocation Project



Questions?

