Well Water Transmission Main Project Update

City Council Briefing
March 25, 2008

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BACKGROUND

Key Components of Water Supply

1. Adequate Source Water Supply
   – Wells
     5 new wells in 10 years ~12 MGD drought yield

   – Conveyance Capacity
     Ability to move water through pipes from the supply wells to the treatment facility

2. Treatment Capacity

PROJECT OBJECTIVES

- Provide increased reliability and redundancy for approx. 65% of the current supply capacity
- Increase the productivity of existing well fields by approx. 1 MGD by reducing existing pipe friction losses
- Extend the well piping system closer to future well fields
- Balance between customers & affected property owners

FUTURE WELL FIELDS
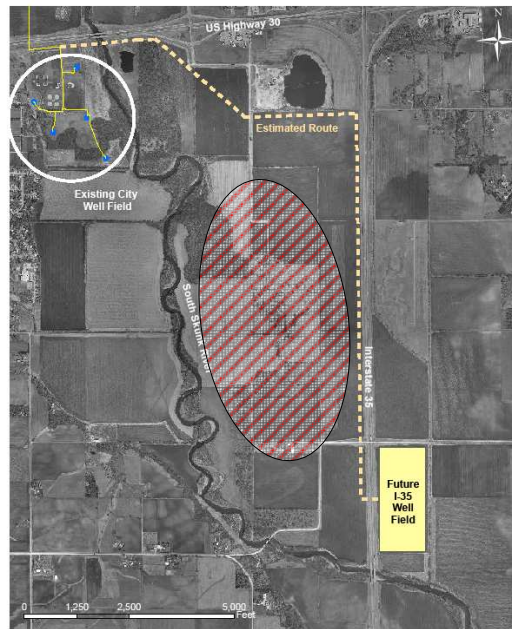
FUNDING

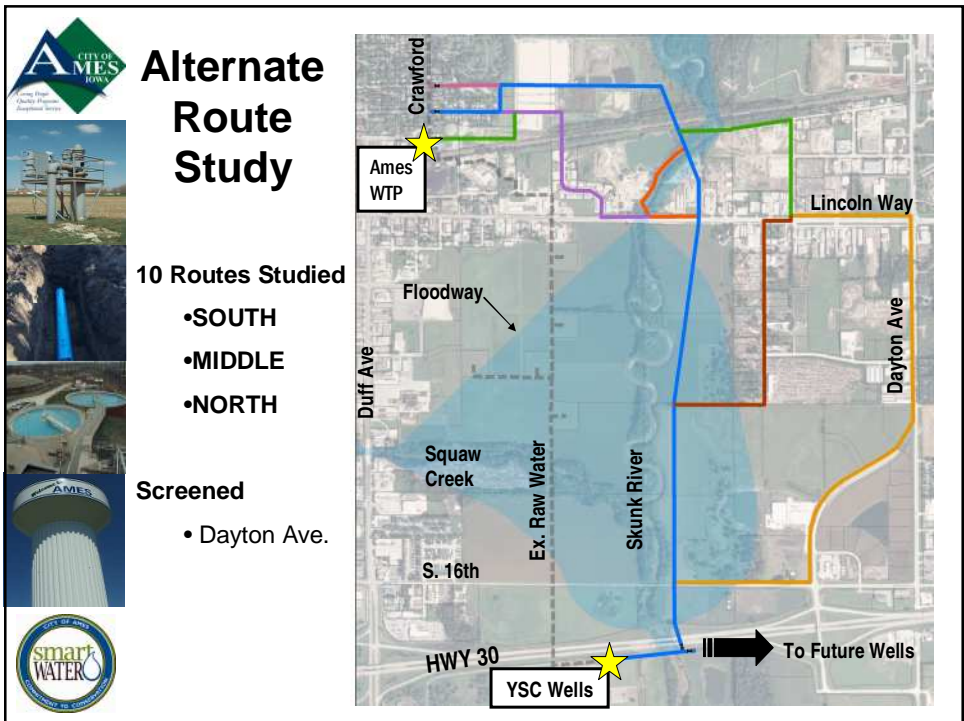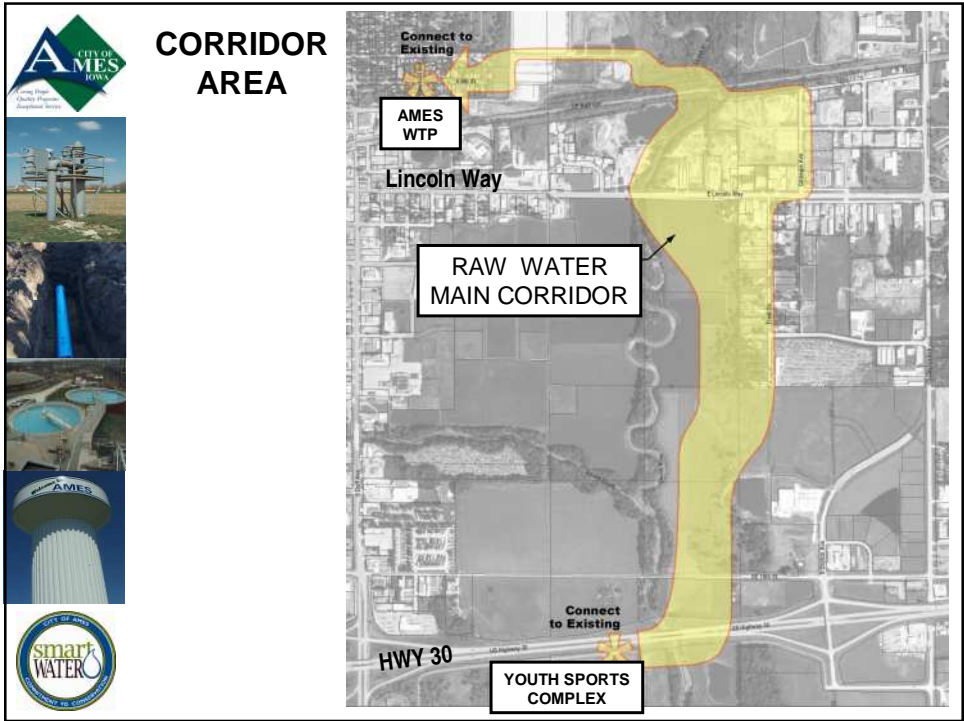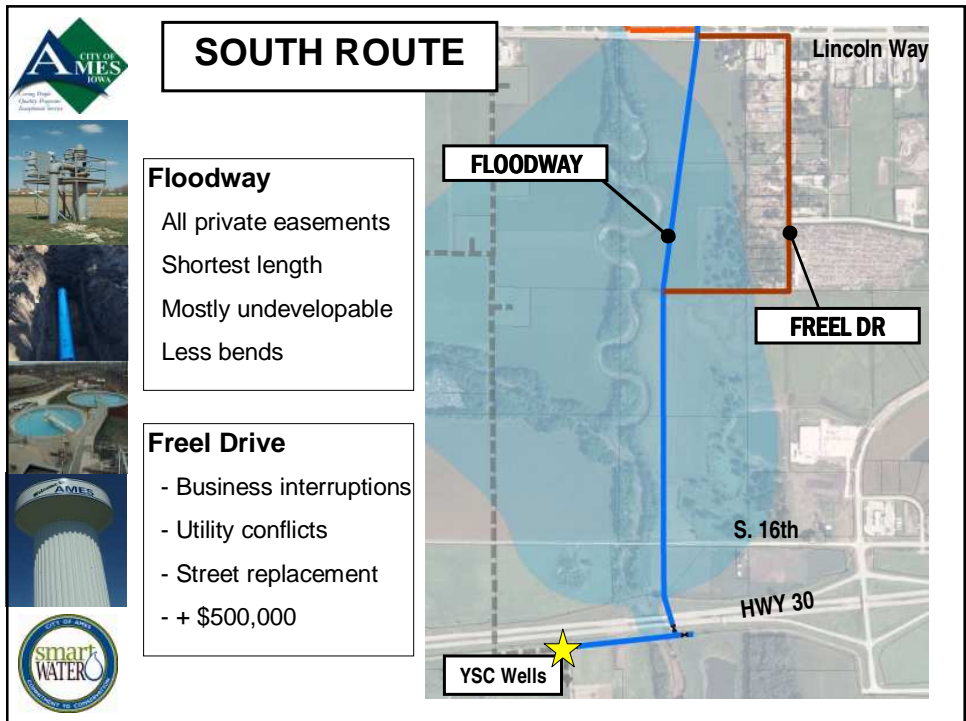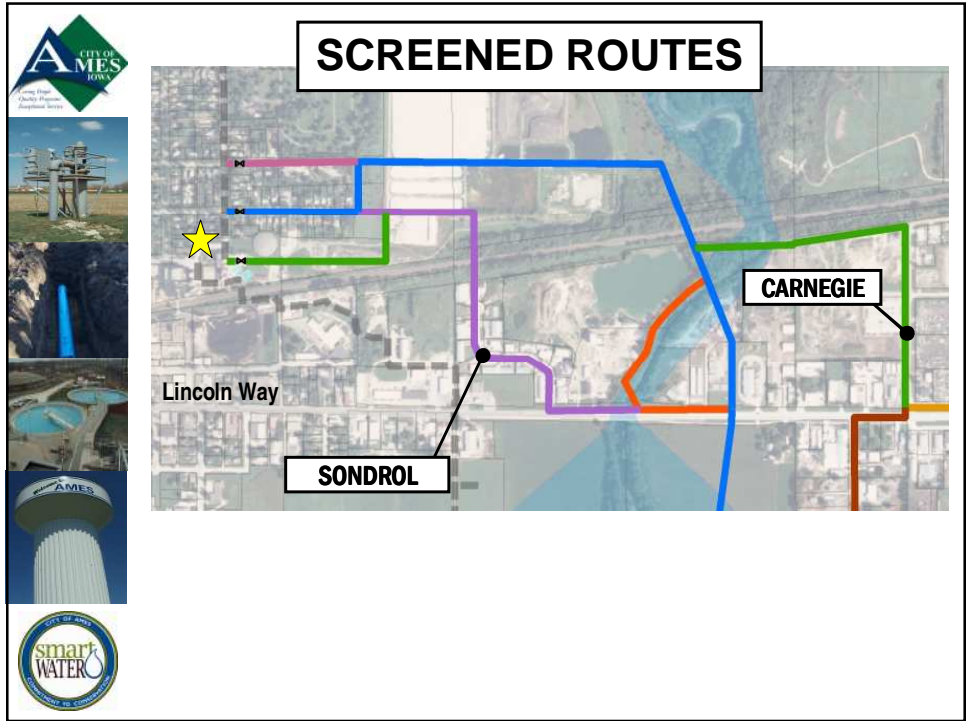|		
FY 07/08	$ 500,000	Engineering, Easements, Permits
FY 08/09	$1,500,000	Engineering, Construction
FY 09/10	$2,000,000	Construction

Total Estimated
Project Cost $4,000,000

PUBLIC INPUT
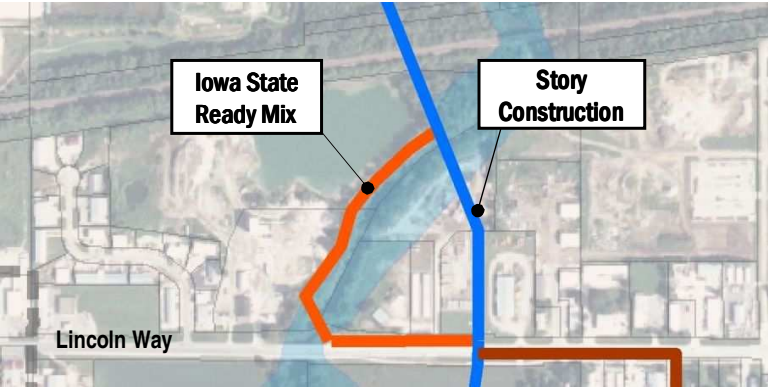
- Nov 27, 2007 Project Open House
  (*letter mailed and follow-up phone call*)
- Permission granted for preliminary work (i.e. geotechnical, environmental, survey)
- Information packets mailed if requested.
- One-on-one meetings offered
- Met with all property owners of permanent easements required for the project
- Sent informational letters and notice of public hearing to all affected property owners (Feb 13th)
- Created project construction webpage on department website for updates during design and construction

CORRIDOR AREA

AMES WTP

Connect to Existing

Lincoln Way

RAW WATER MAIN CORRIDOR

Connect to Existing

HWY 30

YOUTH SPORTS COMPLEX

Alternate Route Study

Crawford

Ames WTP

10 Routes Studied
- **SOUTH**
- **MIDDLE**
- **NORTH**

Screened
- Dayton Ave.

Lincoln Way

Floodway

Duff Ave

Dayton Ave

Squaw Creek

Ex. Raw Water

Skunk River

S. 16th

HWY 30

YSC Wells

To Future Wells

SCREENED ROUTES

CARNEGIE

SONDROL

Lincoln Way

SOUTH ROUTE

Floodway

All private easements

Shortest length

Mostly undevelopable

Less bends

Freel Drive

- Business interruptions

- Utility conflicts

- Street replacement

- + $500,000

FLOODWAY

FREEL DR

Lincoln Way

S. 16th

HWY 30

YSC Wells

MIDDLE ROUTE

Iowa State Ready Mix

Longer pipe length

Additional easement
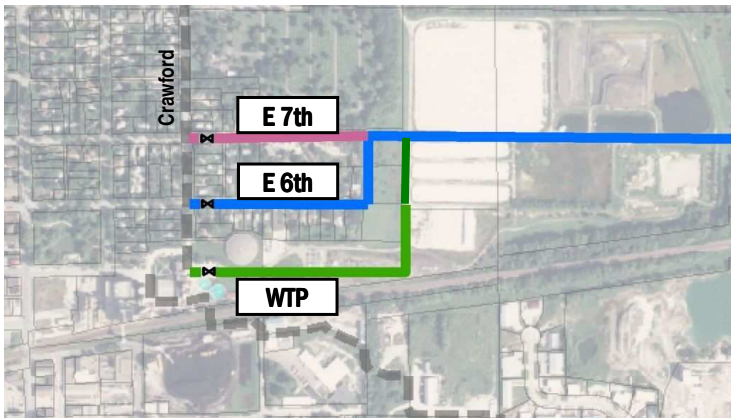
Rubble fill

Story Construction

Shorter pipe length

Fewer bends

NORTH ROUTE

WTP

Utility conflicts

Higher design & construction costs

E 7th St.

Eastwood apts

-access

-location

E 6th St.

Access maintained

Existing easement

RESULTS

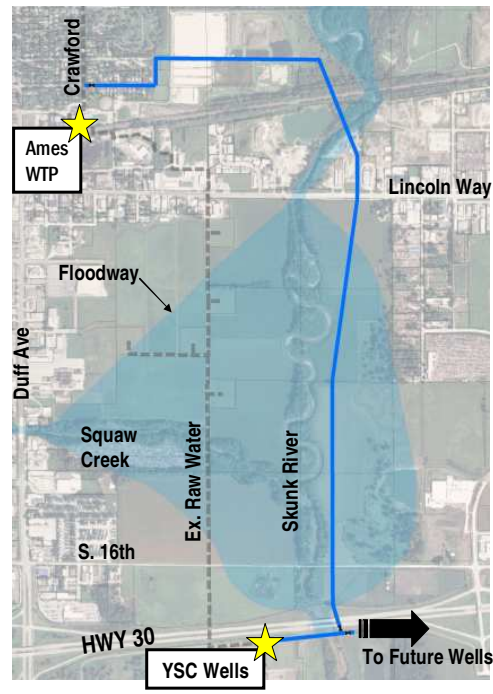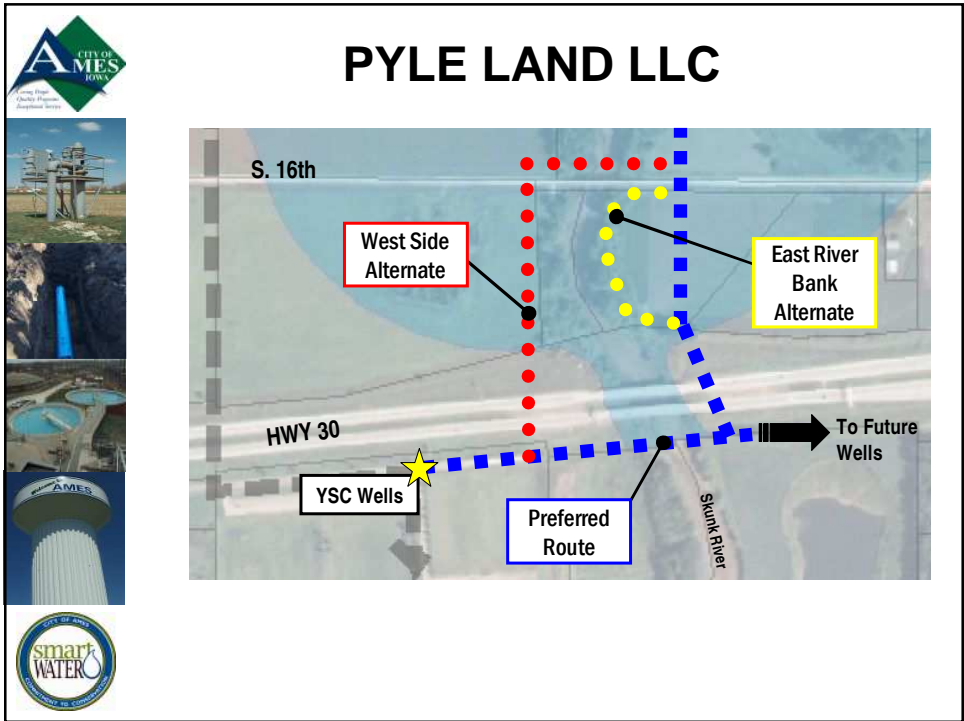| Section	Environmental	People	Construction	Cost
South				
1. Floodway	🌐	🧍	🚧	$
2. Freel Dr.	🌐	🧍 🧍 🧍	🚧 🚧	$$
Middle				
1. ISRM	🌐	🧍 🧍	🚧 🚧	$$
2. Story Const.	🌐	🧍	🚧	$
North				
1. 6th St.	🌐	🧍 🧍	🚧 🚧	$$
2. 7th St.	🌐	🧍 🧍 🧍	🚧 🚧	$$
3. Water Plant	🌐	🧍	🚧 🚧 🚧	$$$

SELECTED ROUTE

13,200-Ft of 30" pipe

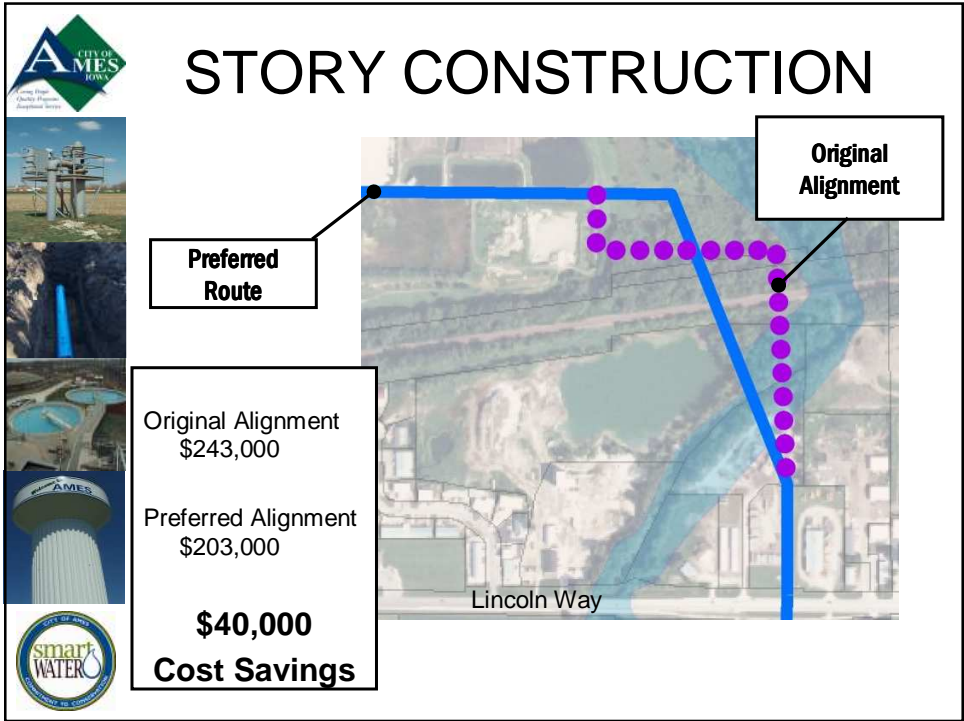## 85%

Floodway or City Property

Permanent Easements = 6

Properties affected
by construction (including
6th residents) = 31

STORY CONSTRUCTION

Original Alignment

Preferred Route

Original Alignment
$243,000

Preferred Alignment
$203,000

$40,000 Cost Savings

Lincoln Way

PYLE LAND LLC

S. 16th

West Side Alternate

East River Bank Alternate

HWY 30

To Future Wells

YSC Wells

Skunk River

Preferred Route

PYLE LAND LLC

West Side Alternate ● ● ● ● ● ● ● ● ● ●
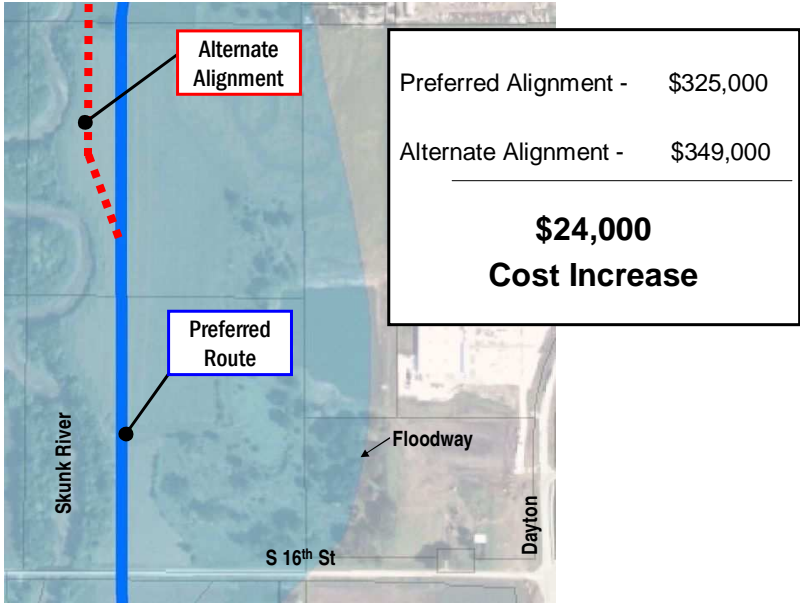
($26,400) – Pyle Route vs. Selected Route

$235,400 – Future Water Main Extension

$209,000 Cost Increase vs. Preferred Route

East River Bank Alternate ● ● ● ● ● ● ● ● ● ●

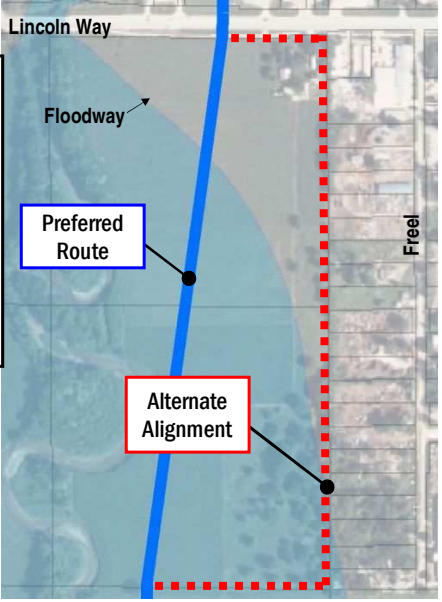**$90,000 Cost Increase vs. Preferred Route**

HICKORY PARK

Preferred Alignment - $325,000

Alternate Alignment - $349,000

$24,000 Cost Increase

LANGE

Preferred Route - $450,000

Alternate Alignment - $700,000

_____

$250,000
Cost Increase

Timeline

Date	Event
February 12, 2008	30-Day Notice of Public Hearing regarding the public improvement project declared at meeting of Ames City Council.
March 25, 2008	Public hearing for Public Improvement Project.
March 28, 2008*	Property owners of locations where permanent easements need to be purchased will be contacted by the appraiser hired by the City
April 23, 2008*	Preliminary offers, based on appraisals, will be sent to affected property owners.
May 5, 2008*	After 10-day waiting period required by state law, property owners and negotiations for easements begin
June 10, 2008*	Easements are obtained, council approves and authorizes payment
Aug/Sept 2008*	Preliminary plans and specifications are approved, bid letting, and contract award
October 2008*	Construction begins
October 2009*	Estimated project completion

*These dates are preliminary and subject to change.

NEXT STEPS

Pass a resolution approving proceeding with the project and acquiring easements by condemnation, if necessary

OR

Direct staff to modify the selected route on the identified affected properties and approve a resolution proceeding with the project and acquiring easements by condemnation, if necessary

OR

Direct staff to redesign the project to alter the number and location of impacted properties. Start the notice of public hearing proceedings over.