

#### Memorandum

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OTTY SECRETARY

DALLAS, TEXAS



- DATE January 14, 2011
  - Trinity River Corridor Project Committee Members: Steve Salazar (Vice-Chair), Mayor Pro Tem Dwaine Caraway, Deputy Mayor Pro Tem Pauline Medrano, Carolyn R. Davis, Vonciel Jones Hill, Delia D. Jasso, Linda Koop, Ann Margolin

SUBJECT REVISED - Trinity River Corridor Project Council Committee Agenda

Please plan to attend a meeting of the Trinity River Corridor Project Committee on Tuesday, January 18, 2011 from 11:00 A.M. to 12:30 P.M. The meeting will be held at City Hall, 1500 Marilla, 6/E/S, Dallas, TX 75201

- 1. Approval of minutes for December 7, 2010 Trinity River Corridor Project Committee meeting
- 2. Periodic Inspection Report No. 9 Maintenance Deficiency Correction Period (MDCP) December 2010 Update (Memo for discussion) Presenter: Elizabeth Fernandez, P.E., Trinity Watershed Management
- 3. Interior Drainage System Pump Stations Update Presenter: Kelly High, Trinity Watershed Management
- 4. Standing Wave and Santa Fe Trestle Trail Presenter: Rebecca Rasor, P.E., Trinity Watershed Management
- 5. Upcoming Event
  - a) Great Trinity Forest Adventure Hike, Saturday, February 5, 2011 from 9:00 A.M. 12:00 P.M. at Rochester Park, 3000 Municipal Street, Dallas, TX 75215

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David A. Neumann, Chairman Trinity River Corridor Project Committee



THE TRINITY

DALLAS

Cc: Honorable Mayor and Members of the City Council Mary K. Suhm, City Manager
Ryan S. Evans, First Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager
A. C. Gonzalez, Assistant City Manager
Forest E. Turner, Assistant City Manager Deborah A. Watkins, City Secretary Frank Librio, Director, Public Information Office Kelly High, Director, Trinity Watershed Management Rebecca Rasor, P.E., Managing Director, Trinity River Corridor Project Paul D. Dyer, Director, Park and Recreation Department Theresa O'Donnell, Director, Sustainable Development & Construction



### Trinity River Corridor Project Committee Meeting Record

The Trinity River Corridor Project Committee Meetings (TRCPC) are recorded. Agenda materials and audiotapes may be reviewed/copied by contacting the Trinity River Corridor Project Committee Coordinator at 214-671-9500.

#### Meeting Date: 12/7/2010

**Convened:** 9:34 A.M.

Adjourned: 10:25 A.M.

#### Committee Members Present:

David Neumann, Chairman Steve Salazar, Vice Chairman Deputy Mayor Pro Tem Pauline Medrano Carolyn R. Davis Vonciel Jones Hill Delia D. Jasso Linda Koop Ann Margolin <u>City Staff Present</u>: Jill A. Jordan, P.E., ACM Kelly High, TWM Rebecca Rasor, P.E., TWM Elizabeth Fernandez, P.E., TWM

Committee Members Absent:

Mayor Pro Tem Dwaine Caraway

Other City Councilmember's Present:

#### AGENDA:

1. Approval of minutes for November 16, 2010 Trinity River Corridor Project Committee Meeting Presenter: David A. Neumann, Chairman

#### Action Taken/Committee Recommendation(s):

Motion made by:	Delia D. Jasso	Motion seconded by:	Linda Koop
Item passed unanimously:	X	Item passed on a divided vote:	
Item failed unanimously:		Item failed on a divided vote:	

#### 2. IH-20 Gateway Park Improvements

Presenter: Rebecca Rasor, P.E., Trinity Watershed Management

- 3. 2011 Preview of Events Trinity River Corridor Project Presenter: Rebecca Rasor, P.E., Trinity Watershed Management
- 4. Periodic Inspection Report No. 9 Maintenance Deficiency Correction Period (MDCP) November 2010 Update (Memo for discussion)

Presenter: Elizabeth Fernandez, P.E., Trinity Watershed Management

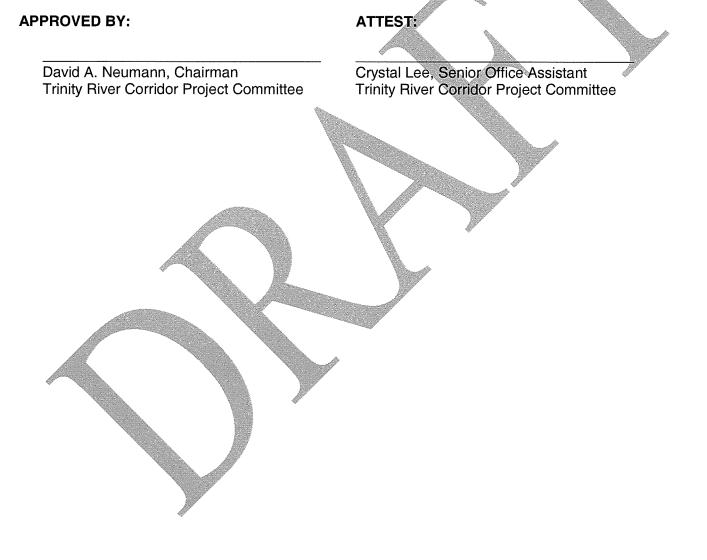
#### 5. Upcoming Event

a) "Bringing the Trinity to Life" Thursday, December 16, 2010 from 9:00 A.M. – 9:00 P.M. with a reception that starts at 7:00 P.M. at the Trinity River Audubon Center, Free admission all day and it's open to the public.

Page 2 TRCP Committee Meeting Record December 7, 2010

#### 6. Upcoming Items for Council Agenda (12/8/10)

- a) An ordinance providing for the closure and vacation of a portion of an alley, containing approximately 1,145 square feet of land located near the intersection of Sylvan Avenue and Canada Drive – Financing: No cost consideration to the City
- b) An ordinance abandoning a portion of an alley to the City of Dallas, the abutting owner, for the Oncor transition facility containing approximately 2,186 square feet of land, located near the intersection of Sylvan Avenue and Canada Drive – Revenue: \$5,400, plus the \$20 ordinance public fee.



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#### SUBJECT Periodic Inspection Report No. 9 Maintenance Deficiency Correction Period (MDCP) December 2010 Update

As of December 31, 2010, the City has completed **185** of the 198 items in the MDCP plan which is the action plan staff submitted to the US Corps of Engineers (Corps) to address the O&M deficiencies in the levee system as described in the Periodic Inspection Report No. 9 (PI #9).

Some of the remaining 13 MDCP items will take several months to complete. This is because some of the items have complex issues which are being coordinated with the Corps and some of the items are tied to the completion of current construction projects in the Trinity River. Removal of the trees through the tree removal contract has been completed. The City anticipates the tree removal contract to be finalized in February 2011. The 13 items are as follows:

- 6 items related to tree removal these items have been completed and will be submitted to the Corps for approval
- 1 item related to a plan to systematically inspect pipes, culverts or conduits in the levees - the plan has been submitted to the Corps and will be removed from this list upon Corps' approval of the plan
- 1 item related to encroachment in the flood plain due to construction equipment for the Margaret Hunt Hill Bridge – this item will be addressed upon completion of the bridge construction
- 2 items related to locating or obtaining permits for multiple utility crossings at the Central Wastewater Treatment Plant Levee – the plans to address the multiple utility crossings have been submitted to the Corps and discussion are on the resolution of the utility crossings are underway with the Corps
- 3 items related to erosion two of the items will be addressed after the completion of the Standing Wave project and one item will be addressed towards the completion of the Margaret Hunt Hill Bridge

The City has received the Corps approval on those items field checked jointly by the City and the Corps.

Trinity River Corridor Project Committee Maintenance Deficiency Correction Period (MDCP) December 2010 Update January 13, 2011 Page 2

If you have additional questions, please let me know.

jill () ndar

Jilf A. Jordan, P.E. Assistant City Manager

THE TRINITY DALLAS

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SUBJECT Interior Drainage System – Pump Stations Update

At the next Trinity River Corridor Project Committee meeting on Tuesday, January 18, 2011, the attached briefing will be presented by Kelly High, Director of the Trinity Watershed Management Department. This briefing provides background on the City's effort related to the Interior Drainage System - Pump Stations ongoing design and construction progress.

Please contact me if you have questions.

Jill A. Jordan, P.E. Assistant City Manager



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Attachment

Cc: Honorable Mayor and Members of the City Council Mary K. Suhm, City Manager
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Trinity River Corridor Project Committee January 18, 2011



Trinity Watershed Management Department







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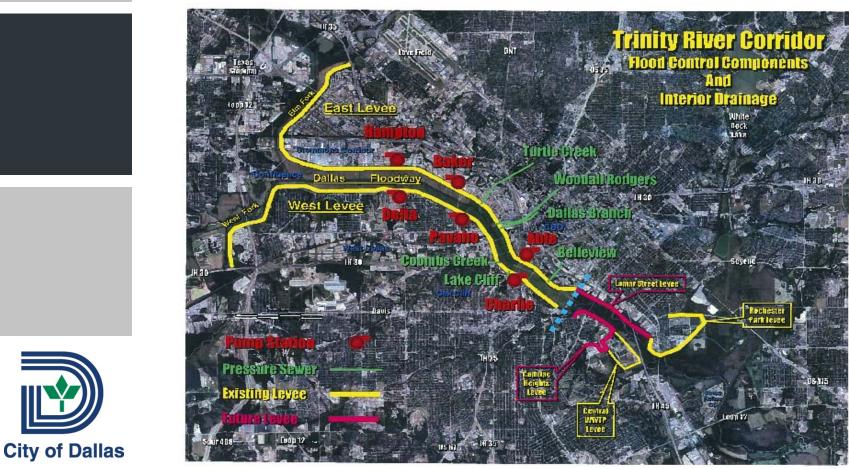
### Purpose

- Provide background on the City's efforts related to the Interior Drainage System – Pump Stations
- Provide status of pump stations design and construction progress
- Outline recommended City Council next steps

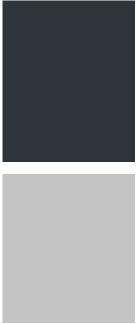


**City of Dallas** 

### Interior Drainage and Pump Stations Map

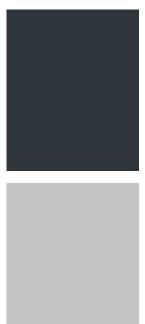






- In 2003 the City identified a need to look at the existing Interior Drainage and associated pump stations that were constructed during the 1930s through 1950s
  - Contract was initiated with Jacobs Engineering
- Preliminary reports indicated a need to upgrade or replace existing pump stations and add a pump station:
  - Charlie Pump Station
  - Delta Pump Station
  - Hampton Pump Station
  - Trinity Portland Pump Station (New)
  - Sump A (Referred to as Able Pump Station)
  - Hampton/Oak Lawn Pump Station (Referred to as Baker Pump Station)
  - Pavaho Pump Station





- Two approaches for funding these projects were identified:
  - Future Bond Programs
  - Federal Funds Available by the Water Resources Development Act (WRDA)-2007
- City began working on both initiatives and included these projects in the Needs Inventory





- The 2006 Bond Program included \$142M in Proposition No. 2 for three Pump Stations:
  - Able Pump Station (Cost allocated \$56.1M)
  - Baker Pump Station (Cost allocated \$48.1M)
  - Pavaho Pump Station (Cost allocated \$37.8M)
- Additional funding would be required in future bond programs for the remaining pump stations



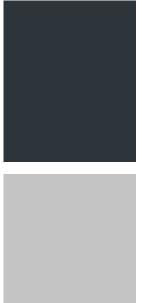


### **City of Dallas**

Trinity Watershed Management Department

# Background

- In 2007, the federal delegation was successful in authorizing the Dallas Floodway Project as part of the Water Resources Development Act of 2007 (Section 5141)
  - Included Balanced Vision Plan, levee modifications and pump stations
  - Provides a cost share for design and construction
  - Requires annual appropriations from Congress
  - Design 50% City / 50% Corps ; Construction 35% City / 65% Corps
  - Allowed for City to design and construct pump stations in advance of the Corps action, if approved by the Corps
  - Required that all City features be designed to 35% and reviewed by Corps to be included in the on-going Dallas Floodway Project Study



- To meet federal requirements for inclusion in Dallas Floodway Project Study, the City entered into a contract with URS in November 2008 for \$3.6M to complete 35% design of:
  - Charlie Pump Station
  - Delta Pump Station
  - Hampton Pump Station
  - Nobles Branch Culverts
  - Trinity-Portland Pump Station
- All of these pump stations require additional funds to complete design and construction



City of Dallas



# Pump Station Design Update Future Funding Needs



**City of Dallas** 

- Charlie Pump Station Originally built in early 1932
  - Serves The Area Around The Bottoms Community with current capacity of 80,000 Gallons Per Minute (GPM)
  - The new pump station will accommodate approximately 225,000 Gallons Per Minute (GPM)
  - 35% Design is complete
  - Current estimate for design and construction is \$34.5M
  - Change Order No. 1 for relocating the Pump Station and additional geotechnical analysis will be on the February 23, 2011 Council agenda



**City of Dallas** 

- Delta Pump Station Originally built in early 1932
  - Serves West Dallas Community Near Hampton Bridge with current capacity of 80,000 Gallons Per Minute (GPM)
  - The design will upgrade and rehabilitate existing Delta Pumping Station
  - 35% Design is complete
  - Current estimate for design and construction is \$3.5M



**City of Dallas** 

- Hampton Pump Station Originally built in 1955
  - Serves North West Dallas Community with current capacity of 600,000 Gallons Per Minute (GPM)
  - The new pump station will accommodate approximately 700,000 GPM, bringing the total pumping capacity to 1,100,000 GPM
  - 35% Design is complete
  - Current estimate for design and construction is \$60M



City of Dallas

- Trinity Portland Pump Station New Pump Station
  - The new pump station will accommodate approximately 250,000 Gallons Per Minute (GPM)
  - Serves South West Dallas Community
  - 35% Design is complete
  - Current estimate for design and construction is \$31.5M





# Pump Station Design Update 2006 Bond Program



**City of Dallas** 

- Able Pump Station Originally Built in 1932
  - In June 2008, the City entered into a contract with HDR Engineering, Inc. for \$4.33M for design of Able Pump Station and associated sump improvements
  - Serves the Central Business District Community with current capacity of 220,000 Gallons Per Minute (GPM)
  - The new pump station will accommodate approximately 875,000 Gallons Per Minute (GPM), decommission the existing pump station and design sump improvement for hydraulic and recreational purposes
  - In April 2010, Council was briefed on using a portion of the \$56.1M in 2006 Bond funds for Able Pump Station and allocating it for the 100-yr levee remediation construction fixes



City of Dallas

- Able Pump Station
  - Remaining funds to be used for design & ROW acquisition
  - To prepare for the next bond program staff is recommending moving forward with a supplement of \$5M for 100% design of the Pump Station and Sump areas. Council will consider this on its 2/23 agenda.
  - Construction Cost to be funded in a future Bond
  - Able Pump Station and associated improvements will be briefed at a later date



# Existing Able Storm Water Pump Station



Trinity Watershed Management Department

**City of Dallas** 

### **Proposed Able Pump Station**







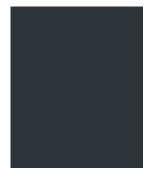
- Baker Pump Station- Originally Built in 1929
  - Serves the Design District and Stemmons Corridor with current capacity of 600,000 Gallons Per Minute (GPM)
  - Contract was initiated in June 2007 with \$4.5M for 100% design
  - The new pump station will accommodate approximately 700,000 GPM, bringing the total pumping capacity to 1,100,000 GPM
  - Design is at 95% and awaiting fully softened shear strength test results to determine if impacts to the slope of the levee or levee template result in additional design modifications
  - SA #3 is required for the additional Corps requirement to complete the design at a cost of \$2.1M. Council will consider this on 2/23/11 agenda
  - Estimated schedule has been delayed 4-6 months and construction is scheduled to begin in late Summer 2011
  - Current budget for design and construction is estimated at \$60M

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**City of Dallas** 

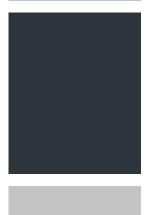
# **Existing Baker Pump Station**

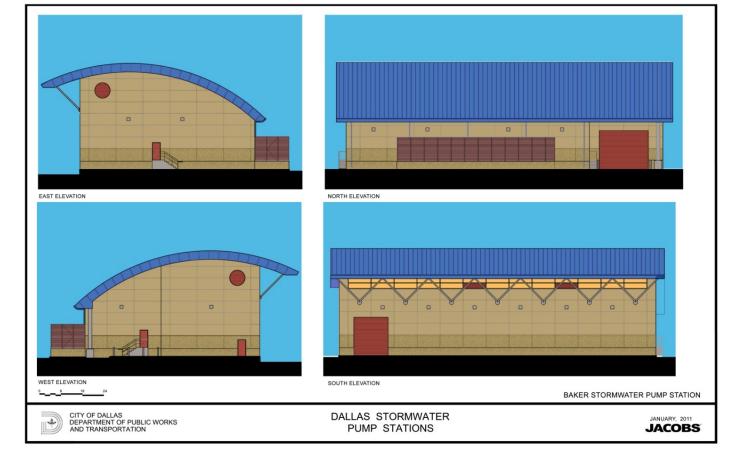






# **Proposed Baker Pump Station**







### City of Dallas

- April 2010 Jacobs Engineering completed design of 375,000 GPM pump station
- June 2010 City Council approved a \$26.5M construction contract with Bar Constructors
- September 2010 City Council and West Dallas Community Groundbreaking Ceremony



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 Several additional tasks have been identified that are necessary to complete the construction by August 2012 (Pending Change Order and Special Use Permit)

- Tasks were identified by City Staff

- A Special Use Permit is necessary due to the additional land that the pump station will occupy
  - This will ensure that no future questions will arise related to land use



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Change Order No.1 (Approximately \$110,000)

- Modifications to the plans and specification to increase efficiency of the Pavaho Pump Station include:
  - Addition of a Sand Filter underground to relieve ground water pressure
  - Removal of a wing wall at existing pump station site that will encroach on new pump station
  - Pier reinforcement steel modification

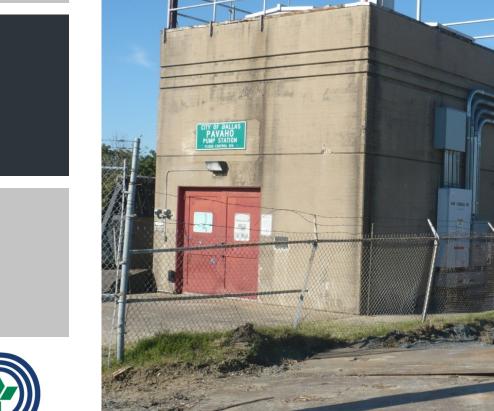
- Council consideration of this Change Order is scheduled for 2/23/11

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Trinity Watershed Management Department

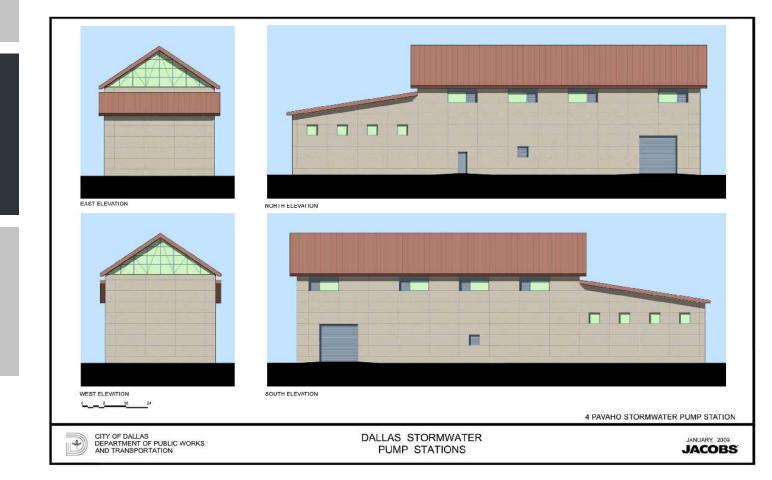
Construction is still projected to be completed in June 2012

# **Existing Pavaho Pump Station**

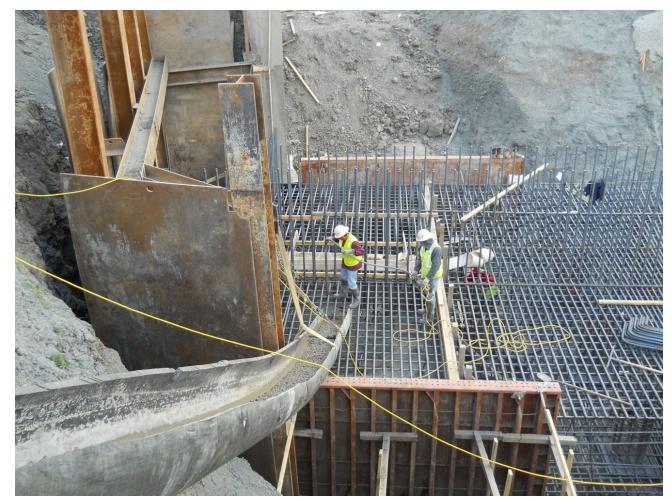




## **Proposed Pavaho Pump Station**



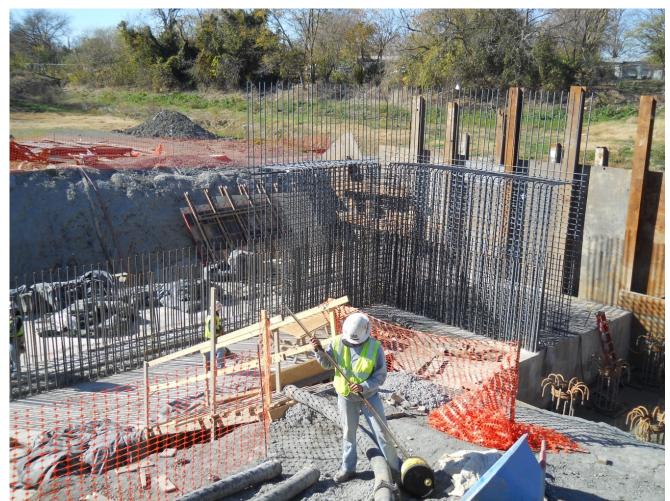
### **City of Dallas**





Trinity Watershed Management Department

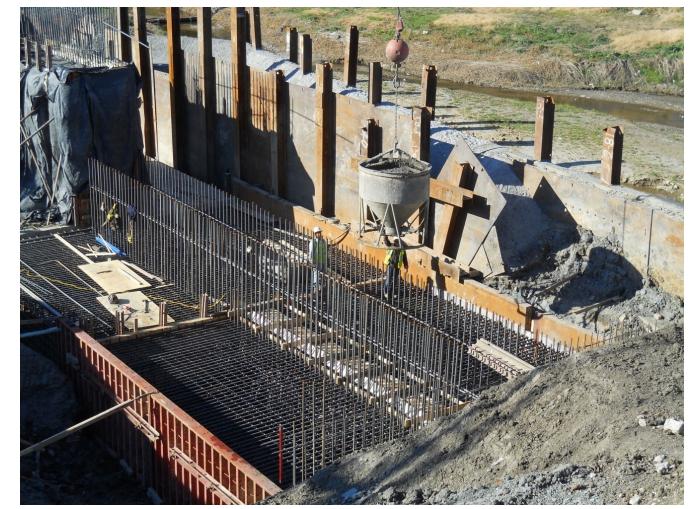
**Concrete Placement** 





Trinity Watershed Management Department

**Tensioning Rebar** 



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**City of Dallas** 

**Concrete Mass Pour** 



Trinity Watershed Management Department

**City of Dallas** 

**Excavation for Concrete Pour** 



# Next Steps – City Council Actions

- Staff is recommending Committee approval to place the following actions on the February 23, 2011 City Council Agenda:
  - Supplement Agreement #3 to the Jacobs Contract for \$2.2M for the Hampton/ Oaklawn (Baker) and Pavaho Pump Stations
  - Supplement Agreement #1 to the HDR Contract for \$5M for Levee Drainage System (Able Pump Station and Sump A Improvements)
  - Supplement Agreement #1 to the URS Contract for \$0.25M for completing the 35% Plans for other Pump Stations
  - Change Order #1 for an estimated \$0.11M to Bar Constructors for the Pavaho Pump Station Construction Contract.



**City of Dallas** 

Trinity Watershed Management Department



# **Questions?**



**City of Dallas** 

Trinity Watershed Management Department

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#### SUBJECT Standing Wave and Santa Fe Trestle Trail

The attached briefing on the Standing Wave and Santa Fe Trestle Trail will be presented at the January 18, 2011 Trinity River Corridor Project Committee Meeting. The briefing will provide a schedule and progress report, including photographs of the work done to date.

Please contact me if you have questions.

Jill A. Jordan, P.E. Assistant City Manager

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Attachment

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DALLAS

Standing Wave and Santa Fe Trestle Trail



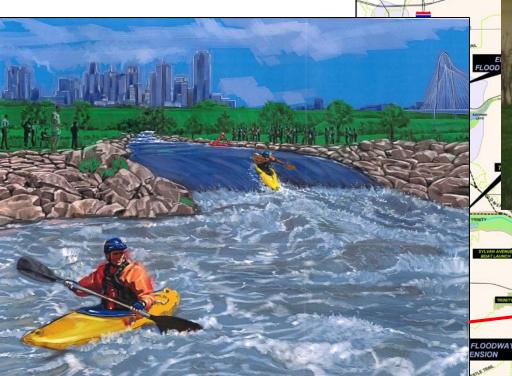
Trinity River Corridor Project Committee

January 18, 2011





# TRINITY RIVER CORRIDOR PROJECT



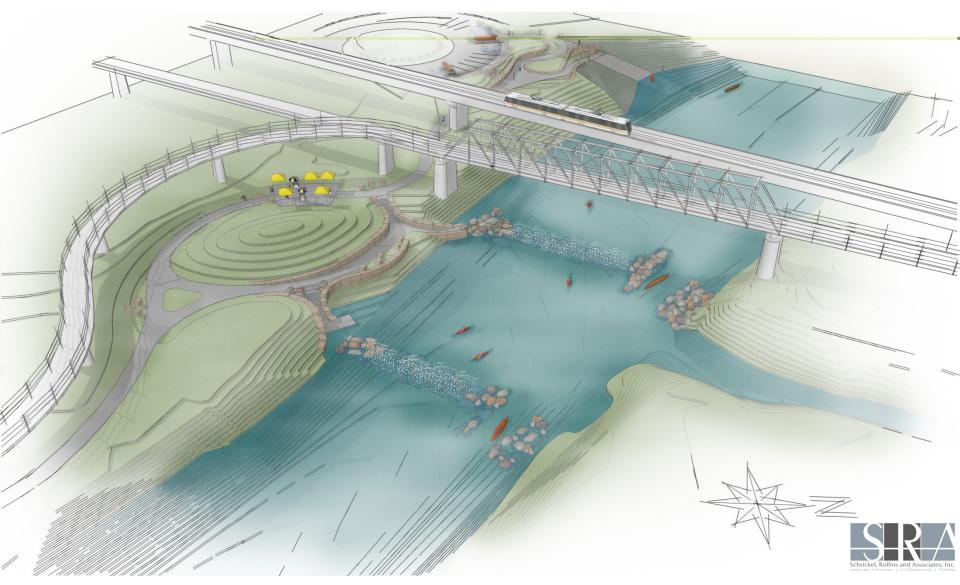
# Santa Fe Trestle Trail

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# Standing Wave Whitewater Course

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- Standing Wave
  - \$200,000 from the 1998 Bond Program
  - \$3.2 million from the 2006 Bond Program
  - Contract awarded November 2009
- Santa Fe Trestle Trail
  - \$2 million from the 1998 Bond Program
  - Additional \$3.5 million from Statewide Transportation Enhancement Program (STEP) grant, TxDOT
  - Contract awarded May 2010





Contractor built a cofferdam and diverted the river channel to be able to work in a dry area











• On December 22, 2010, Ark Construction began removing the cofferdam around the Standing Wave Construction



 Representative from REP (design subcontractor) entered the whitewater to check wave function and safety





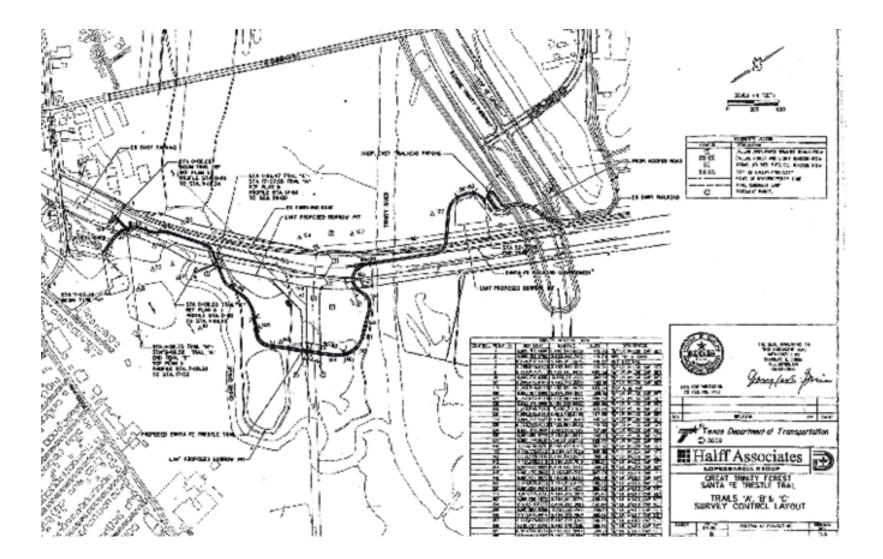




Photos taken January 7, 2011









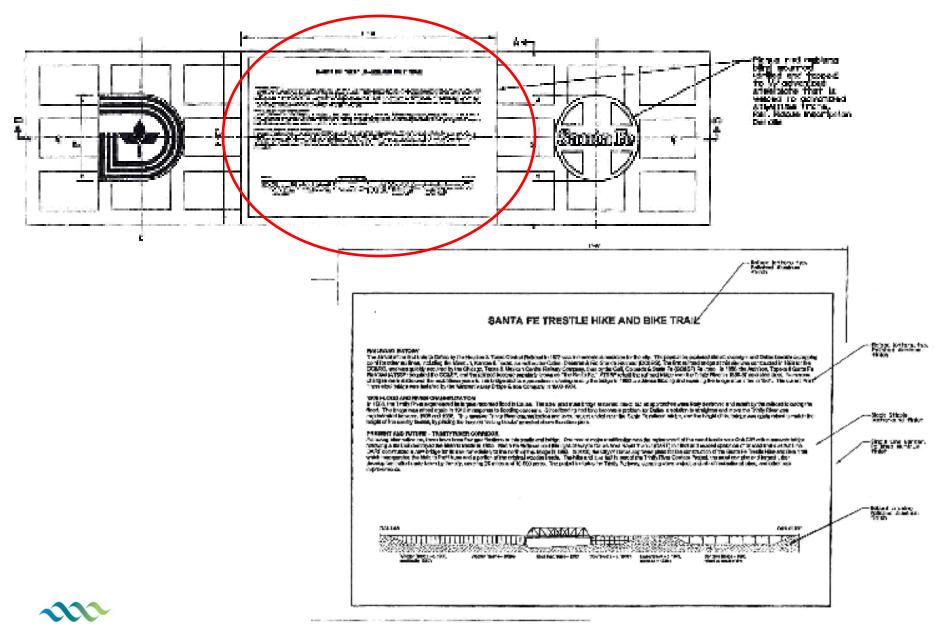


#### Parking lot construction on east overbank



#### Raised trail allows some floodwaters to pass





- Standing Wave is expected to be complete in Spring 2011
- Santa Fe Trestle Trail is expected to be complete in Fall 2011
- Both construction schedules are weather dependent



# Trinity River Project Office (214) 671-9500

# www.trinityrivercorridor.org

ftp://ftp.dallascityhall.com



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