

Memorandum



CITY OF DALLAS

DATE December 4, 2009

TO Trinity River Committee Members:

David A. Neumann (Chairman)
Steve Salazar (Vice-Chair)
Mayor Pro Tem Dwaine Caraway
Deputy Mayor Pro Tem Pauline Medrano

Carolyn R. Davis
Vonciel Jones Hill
Delia Jasso
Linda Koop

SUBJECT **Program Management Services Supplemental Agreement No. 3**

At the December 8, 2009 Trinity River Corridor Project Committee Meeting, the attached briefing will be presented on supplementing the contract of the Program Manager services currently in place for several of the City's drainage projects. The presentation will be made by Liz Fernandez, Assistant Director, Trinity Watershed Management.

If you have additional questions, please let me know.

for

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



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c: Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
Ryan S. Evans, First Assistant City Manager
A. C. Gonzalez, Assistant City Manager
Forest E. Turner, Assistant City Manager
David K. Cook, Chief Financial Officer
Deborah A. Watkins, City Secretary
Thomas P. Perkins, Jr., City Attorney
Craig D. Kinton, City Auditor
Judge C. Victor Lander
Helena Stevens-Thompson, Assistant to the City Manager
Frank Libro, Director, Public Information Office
Kelly High, Director, Trinity Watershed Management
Rebecca Rasor, P.E., Managing Director, Trinity River Corridor

Program Management Services Supplemental Agreement No. 3

Trinity River Corridor Project Committee
December 8, 2009



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Briefing Purpose

- To seek the Committee's approval of staff's recommended Supplement Agreement #3 for Program Manager services proposed for December 9, 2009



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Current Program Management Consultant (PMC) Services

The City hired HNTB on June 13, 2007 to provide Program Management Consultant (PMC) services. The PMC services include:

- Acting as City's Program Manager responsible for all phases of work including coordination internally, with other agencies and the public to implement the design and construction of projects
- Serving as an extension of City Staff to manage the scheduling, budgets, permitting, design, construction, conduct plan reviews, conduct inspections, and coordinate with the developments associated with the Trinity River
- Providing industry leading experts on large pump station design and deep tunnel design



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Current Program Management Consultant (PMC) Services

The following projects are a part of the current PMC contract awarded in June 2007:

- Middle Peaks and Mill Creek Branch Drainage Relief System (tunnel to the Trinity River) – 2006 Bond Program Cost Estimate \$92.6M
- Hampton-Oak Lawn Sump Levee Drainage System (Baker Pump Station) - 2006 Bond Program Cost Estimate \$48.1M
- Pavaho Sump Levee Drainage System (Pump Station) - 2006 Bond Program Cost Estimate \$37.8M
- State Thomas at Woodall Rodgers Drainage Study - 2006 Bond Program Cost Estimate \$191,445
- Levee Drainage System Pressure Sewers - 2006 Bond Program Cost Estimate \$14.7M



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Current Program Management Consultant (PMC) Services

- The original base contract for these services in the amount of \$8,423,300 was approved by council on June 13, 2007, Resolution No. 07-1833



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USACE Periodic Inspection Report #9

- In March 2009, City receives results of USACE inspection of the Dallas Floodway which includes a number of items to address in a very short time frame
- City supplemented HNTB's original contract (SA #1 & SA #2) in the amount of (\$24,990 and \$25.5M respectively) so HNTB can assist the City in addressing the USACE Periodic Inspection Report #9



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Why Supplemental Agreement #3?

Water Resources Development Act of 2007 (WRDA)

- The City pursued WRDA to leverage Federal funds to support floodway projects in the Trinity River Corridor
- In November 2007, \$459 million was authorized for the Dallas Floodway Project, which consists of the Balanced Vision Plan & Interior Drainage projects
- The \$459 million authorization consists of:
 - Federal cost share of \$298 million (65%)
 - Non-Federal (City) cost share of \$161 million (35%)



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Why Supplemental Agreement #3?

WRDA Eligibility

- In order to be eligible for WRDA Federal funding all projects must be included in the Environmental Assessment (EA) being performed by the USACE
- To leverage the \$161M non-Federal cost share, the City moved quickly to include additional Interior Drainage projects into the EA
- These additional projects needed to be designed to a 35% level and required a Design Analysis report
- Geotechnical Analysis also needed to be performed to a 90% level as part of the Design Analysis
- To meet the USACE EA schedule these projects needed to be submitted quickly



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Why Supplemental Agreement #3?

Additional WRDA eligible projects to be added to PMC by Supplemental Agreement #3:

•Able Pump Station & Sump Improvements

- 100% level design of new 340,000 GPM (approximate) pump station at a new site to be determined during design, design for construction of a new discharge to the Trinity River, design for decommission of old pump station, and design for construction of Sump A improvements incorporating both hydraulic and aesthetic aspects
- \$42.2M (Estimated Total Construction Cost)

•Hampton Pump Station

- 35% level design of a new 700,000 GPM (approximate) pump station and the rehabilitation of new Hampton Pump Station.
- \$60.0M (Estimated Total Construction Cost)



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Why Supplemental Agreement #3?

- **Charlie Pump Station**
 - 35% level design of new 225,000 GPM (approximate) pump station.
 - \$34.5M (Estimated Total Construction Cost)
- **Trinity Portland Pump Station**
 - 35% level design of new 250,000 GPM (approximate) pump station.
 - \$31.5M (Estimated Total Construction Cost)
- **Delta Pump Station (rehab)**
 - Upgrades and improvements to the existing Delta Pumping Station.
 - \$3.5M (Estimated Total Construction Cost)
- **Nobles Branch**
 - 35% level design of new gated culvert structures.
 - \$1.0M (Estimated Total Construction Cost)



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Why Supplemental Agreement #3?

- Design of these additional projects was authorized by council in November 2008
- \$172.7M in City Bond program funding for these six projects is eligible as leverage towards the \$161M non-Federal cost for WRDA
- These additional projects will utilize similar specialized pumping system designs currently being managed by the HNTB PMC Team
- These additional projects need to be included in the USACE EA for WRDA funding eligibility. The HNTB Team is currently coordinating with the USACE for the Baker and Pavaho pump stations to be included in the USACE EA for WRDA



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What is Supplemental Agreement #3?

Basic Services - WRDA pump station projects

- Additional Program Management and Design Review Services

- Project & Program developments, Cost & Schedule controls, Status reports & meetings, Preliminary engineering, Construction Bidding assistance, Design Management, QC/QA review, Utility relocation coordination, Permitting Support and Coordination
- Engineering Review of electrical, mechanical, utilities, hydraulics, structural, and architectural
- Soil borings and geotechnical analysis



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What is Supplemental Agreement #3?

Basic Services - Mills Creek/Peaks Branch Drainage Relief Tunnel (new outfall)

- Additional Program Management and Design Review Services
 - Approximately 7,800 linear feet of additional tunnel
 - Outfalls into White Rock Creek
- Design to White Rock Creek authorized by council on March 25, 2009



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What is Supplemental Agreement #3?

Special Services - Mills Creek/Peaks Branch Drainage Relief Tunnel

- Additional Soil Borings (every 500-700 feet of additional tunnel length)
- Additional Geotechnical analysis

Special Services - WRDA pump station projects

- Additional Soil Borings for Baker Pump Station and Pavaho Pump Station
- Soil Borings for each of the five new pump stations (Able, Charlie, Delta, Hampton and Trinity-Portland)
- Additional Geotechnical analysis



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What is Supplemental Agreement #3?

Basic Services

	<u>Estimated Fee</u>
Overall Program Management	\$ 448,100
Mill Creek and Peaks Branch	\$ 505,700
Able Pump Station and Sump A	\$ 912,000
Trinity-Portland Pump Station	\$ 225,000
Charlie Pump Station	\$ 237,000
Hampton Pump Station	\$ 263,000
Delta Pump Station Rehabilitation	\$ 31,000
Nobles Branch Sump Improvements	<u>\$ 31,000</u>
Basic Services Total Fee:	\$ 2,652,800

Special Services

Geotechnical	
Additional for Mill Creek and Peaks Branch	\$ 286,900
Additional for Pump Stations	<u>\$ 1,081,200</u>
Estimated Total Fee	\$ 4,020,900



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Program Management Team for Supplemental Agreement #3

- HNTB
- Freese and Nichols
- M/WBE Participation - 27%
 - Mas-Tek (Black Female 19.15%)
 - Gupta & Assoc. (Pacific Islander 1.24%)
 - Jaster-Quintanilla (Hispanic Male 2.49%)
 - Pacheco Koch (Hispanic Male 3.73%)
 - Trevino Engineering (Hispanic Male 0.37%)



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PMC Summary

<u>Projects</u>	<u>Original Contract</u>	<u>SA #3</u>
• Mill Creek and Peaks Branch (Tunnel to Trinity River)	100% *	
• Mill Creek and Peaks Branch (New Outfall to White Rock Creek)		100% ***
• Hampton-Oak Lawn Sump (Baker Pump Station)	100% *	
• Pavaho Sump (Pump Station)	100% *	
• State Thomas @ Woodall Rodgers (Study)	100% *	
• Pressure Sewers	100% *	
• Able Pump Station and Sump A		100% *
• Trinity-Portland Pump Station		35% **
• Charlie Pump Station		35% **
• Hampton Pump Station		35% **
• Delta Pump Station Rehabilitation		35% **
• Nobles Branch Sump Improvements		35% **



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PMC Summary

- For projects completed to 35%, future supplemental agreements for additional design and program management will be needed to finish the project design
- * - 100% design is included in the City's 2006 Bond Program
- ** - 35% design required for inclusion into USACE's Environmental Assessment (EA) to be eligible as leverage towards the \$161M non-Federal cost for WRDA. Will require future Bond Program approval for funding
- *** - Will require funds from TxDOT and future Bond Program approval for construction funding



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Next Steps

- Staff recommends PMC Supplemental Agreement #3 for Council approval December 9, 2009



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Questions?



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Appendix



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City of Dallas Mill Creek & Peaks Branch Watersheds

