Mill Creek / Peaks Branch / State Thomas Drainage Relief Tunnel

Pre-Bid Meeting
July 25, 2017
Pre-Bid Meeting Agenda

- Introductions (City - TWM)
- Overview (City – TWM)
- Project Summary (Halff)
- Stormwater Management (City – SWM)
- Business Diversity Plan (City – OBD)
- Project Information (B&V)
- Questions
Introductions

• City of Dallas - Trinity Watershed Management
  • Director – Sarah Standifer
  • Sr. Program Manager / Assistant Director (I) – J. Milton Brooks, P.E.
  • Project Manager – Jose Lopez, P.E.

• Construction Manager – Black & Veatch
  • Pre-Construction Manager – Ray Brainard, P.G.
  • Construction Manager – Paul Smith, C.C.M.
  • Project Manager – Eudomar Silva, P.E.

• Design Engineer - Halff / COWI
  • Project Manager – Todd Woodson, P.E.
  • Tunnel Design – Keith Gaspar, P.E.
Introductory Notes

• Sign In Sheets
  • All Attendees must sign in

• Project Bid Documents
  • Obtain bid documents – call 214-948-4250
    • Oak Cliff Municipal Center, Room 307, 320 E. Jefferson Boulevard, Dallas 75203
  • Must be a registered plan holder to receive addenda
  • NCTCOG Standard Specifications for Public Works Construction (Oct 2004 version)
    • 817-695-9140 or awebster@nctcog.org

• Networking Opportunity - Immediately after pre-bid meeting
Project Schedule

• Bids Due
  • September 1, 2017, by 1:00 PM
    • City Hall 3FN
    • Business Development & Procurement Services

• Bids Opening
  • September 1, 2017, at 2:00 PM
    • City Hall L2FN
    • Business Center

• Estimated Construction Award - Fall 2017
• Estimated Notice To Proceed - Late 2017
• Estimated Project Completion - 2022
Mill Creek / Peaks Branch / State Thomas Watersheds
Flooding has occurred in the Mill Creek, Peaks Branch and State-Thomas areas for many years

- Mill Creek and Peaks Branch were originally natural streams draining into the Trinity River and White Rock Creek
- In the early 1900s, the streams were enclosed in underground systems
- Undersized drainage systems cause streets to flood
- Flood depths can be up to 10 feet high
- Approximately 3,800 properties are impacted by one foot or more of flooding in the Mill Creek/Peaks Branch area
Fair Park Flash Flooding
May 1995

16 deaths blamed on storm

4 missing after floods; 100 hurt

911 response times criticized

Photo shows cars that floated – Fair Park
Baylor Hospital Area Flooding
March 2006

Skillman near Oram

Munger
Peaks Branch Flooding
March 2006

Worth Street Flooding
Bond Programs in 2006 and 2012 provided funding for storm drainage relief systems for the Mill Creek, Peaks Branch and State-Thomas areas

- The 2006 Bond Program provided funding for separate conventional drainage improvement projects
- In 2008, Mill Creek and Peaks Branch drainage projects were combined into one tunnel project
- In 2012, the State-Thomas relief drainage project was combined with the Mill Creek / Peaks Branch tunnel
- The 2012 Bond Program provided additional funding for construction of the combined drainage tunnel
Mill Creek/Peaks Branch/State Thomas Drainage Tunnel
Project Summary

- Tunnel Length – 5 miles
- Tunnel Depth – 70 feet to 150 feet
- Tunnel Sections –
  - Excavated –
    - Circular - 32.5’ diameter   Horseshoe - 38’ X 32.5’
  - Finished –
    - Circular – 30’ diameter   Horseshoe - 35.5’ X 30’
- Shafts – 7 Total, 12.5’ to 40’ finished diameter
- Tunnel Lining – 15 inches thick
  - Primarily non-reinforced cast-in-place concrete
- Tunnel Excavation – Approximately 1,100,000 CY
- Dewatering Pump Station – 30,000 gpm
- Tunnel Construction Medium – Austin Chalk
Tunnel Profile
Tunnel Sections

30’x35.5’ HORSESHOE MAIN TUNNEL SECTION OUTFALL TO SITE A (2 MILES)

30’ CIRCULAR MAIN TUNNEL SECTION SITE A TO END (3 MILES)
Intake Site F

Federal Reserve Bank
Tunnel Lateral F
Intake Site E

Residential

Commercial

Residential

Commercial
Intake Site D
Site D - Surface Improvements

- Residential
- Park
- School
- Shaft D
Intake Site C
Intake Site A

Open Lots

Rail

TUNNEL LATERAL

MAIN TUNNEL

MILL CREEK/PEAKS BRANCH/STATE THOMAS DRAINAGE RELIEF TUNNEL PROJECT
Dewatering Pump Station
Outfall Site O
Tunnel Outfall Structure
Right-of-Way Status

• Surface Properties
  • All Intake sites property acquired
  • Property at Outfall site acquired

• Subsurface Easements
  • All private easements have been acquired
  • Acquiring easements from public agencies
Mill Creek / Peaks Branch / State Thomas Drainage Relief Tunnel

Construction Site
Stormwater Pollution Prevention

City of Dallas
Trinity Watershed Management
Stormwater Management
Scott Morris
Agenda

Introduction

Part I: What is Stormwater? Who is Stormwater Management?

Part II: MS4 Permit/ TPDES Construction General Permit

Part III Stormwater Pollution Prevention Plans
PART I

What Is Stormwater &
Who Is Stormwater Management?
WHAT IS STORMWATER?

• Stormwater is rain water runoff.

• Flows over:
  • Streets
  • Sidewalks
  • Driveways
  • Parking Lots
  • Rooftops
WHAT IS STORMWATER?

Stormwater flows into storm drain inlets, and enters the storm drainage system.

Storm drainage system discharges directly into local creeks, lakes, and the Trinity River.
Who is Stormwater Management

- Stormwater Management Division
  - Inspections of Construction sites/Industrial facilities
    - Ensure compliance with federal, state and local regulations
  - Educating the public
    - Pollution prevention related issues
- Water Sampling
  - To detect and correct water pollution in lakes, creeks and rivers
- CCTV (closed circuit television)
  - Inspects storm sewer system
PART II

City of Dallas Municipal Separate Storm Sewer System (MS4 Permit)
The City of Dallas holds a Municipal Separate Storm Sewer System (MS4) Permit which allows the City of Dallas to discharge from its storm drainage system directly into the Waters of the United States in accordance with the requirements set forth in the permit.

The MS4 Permit is issued by the Texas Commission on Environmental Quality

The City’s current permit is:
TPDES Permit No. WQ0004396000 (issued on October 6, 2011)
CGP Requirements

• TPDES Construction General Permit Number (CGP) TXR150000
  • Covers all construction activity $\geq 1$ acre
  • Effective Date: March 5, 2013
  • New General Permit is expected in 2018
    • Permit renewal required
    • SWP3 update necessary
PART III

Stormwater Pollution Prevention Plans (SWP3)
SWP3 Requirements

- SWP3 must be completed and implemented prior to any construction activity including:
  - Clearing
  - Grading
  - Excavating
  - Filling and Embankment
  - Demolition
  - Similar activities that disturb or expose soil including stockpiling fill material
SWP3 Requirements

SWP3 Must Be...

- Prepared and implemented
  - Prior to sending in applications for CGP coverage
  - Prior to commencing construction activities
- Prepared by licensed professional engineer
- Retained on-site
- Readily available for review
- Kept current
Resources

- City of Dallas Stormwater Management
  www.wheredoesitgo.com
- City of Dallas
  www.dallascityhall.com
- U. S. Environmental Protection Agency (EPA)
  www.epa.gov
- Texas Commission on Environmental Quality (TCEQ)
  www.tceq.com
- North Central Texas Council of Governments (NCTCOG)
  www.dfwinfo.com
City of Dallas

Mill Creek / Peaks Branch / State Thomas Drainage Relief Tunnel

City of Dallas Diversity Plan

Lisa Alonzo
214-243-2131
City of Dallas Diversity Plan

• Sets Minority/Women Business Enterprises goals (M/WBE)
  • Construction – 25%
  • Local / Non-local M/WBE participation
• Applies to all prime City contracts over $50,000
• Provides documentation to determine Diversity Plan
Certification Requirements & Assistance

- M/WBE firms must be certified at time of Council award
- M/WBE Vendor List Development
  - Trade and service
  - Subcontracting scope
- Certification Assistance
  Lisa Alonzo
  214-243-2131
  lisa.alonzo@dallascityhall.com
Acceptable Certifications

- Interested minority and women owned business can pursue their certification by selecting any of the following agency websites:
  - [www.nctrca.org](http://www.nctrca.org)
  - [www.dfwmsdc.com](http://www.dfwmsdc.com)
  - [www.wbcsouthwest.org](http://www.wbcsouthwest.org)
City of Dallas Diversity Plan

• Business Inclusion & Development Forms
  • Form 203 - Business Inclusion and Development Affidavit
  • Form 204 - Ethnic Workforce Composition Report
  • Form 213 - Schedule of Work & Actual Payment
  • Form 214 - Subcontractor Intent
  • Form 215 - B.I.D. Documentation Form

• Due dates for forms
  • Form 203 - with bid
  • Other Forms - when notified of Intent to Award
City of Dallas Diversity Plan

Importance of a Diverse Team

- City of Dallas explores ways to have greater participation among MWBE’s on larger-scale projects
- Program focuses on providing opportunities for ready, willing and able MWBE’s
  - Improve business management abilities
  - Develop organization and professional skills
  - Provide partnerships with established contractors that provide similar services
- Effort furthers City’s commitment to assisting MWBE’s in competing for future City of Dallas contracts
CITY OF DALLAS
Business Inclusion and Development Affidavit

It is the policy of the City of Dallas to involve qualified Minority and Women-Owned Business Enterprises (M/WBEs) to the greatest extent feasible on the City’s construction, procurement and professional services contracts. The City and its contractors shall not discriminate on the basis of race, age, color, religion, national origin, or sex in the award and performance of contracts. In consideration of this policy, the City of Dallas has adopted the Business Inclusion and Development Plan (BID Plan) for all City of Dallas contracts.

M/WBE Participation Goals
The BID Plan establishes subcontracting goals and requirements for all prospective bidders to ensure a reasonable degree of M/WBE meaningful business inclusion and participation in City contracts. It is the goal of the City of Dallas that a certain percentage of work under each contract be executed by one or more M/WBEs. For the purpose of participation percentages, the City of Dallas does not include amounts paid to the prime by the sub contractor.

On May 14, 1997 the City Council adopted the following M/WBE participation goals without consideration for a specific ethnicity or gender (Resolution Number 97-1605):

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<tr>
<th>Construction</th>
<th>Architectural &amp; Engineering</th>
<th>Other Professional</th>
<th>Other Services</th>
<th>Goods</th>
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<td>25.00%</td>
<td>25.66%</td>
<td>36.30%</td>
<td>23.80%</td>
<td>16.00%</td>
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The apparent low bidder/most advantageous proposer shall agree to meet the established goals or must demonstrate and document a “good faith effort” to include M/WBEs in subcontracting opportunities. The apparent low bidder/most advantageous proposer who fails to adequately document good faith efforts to subcontract or purchase significant material supplies from M/WBEs may be denied award of the contract by the City based on the contractor’s failure to be a “responsive” or “responsible” bidder.

By signing below, I agree to provide the City of Dallas, Business Development & Procurement Services department with a completed copy of all required forms provided within the Business Inclusion and Development document package. I understand that, for the purpose of M/WBE subcontracting participation, any amounts paid to the prime from the sub contractor should not be included in the above listed participation amount. Finally, I understand that if I fail to provide all of the required documents within five (5) business days after notification, my bid may be deemed “non-responsive” and I may be denied award of the contract.

(Note: Please use the Tab button, mouse or arrows to move from one section to the next. Please DO NOT use the “Enter” key.)

Bid Number: __________________ Company Name: __________________

Typed or Printed Name of Certifying Official of Company __________________

Date __________________

Signature of Certifying Official of Company __________________

Title __________________

Rev. 2 – 8/9/12
Doc # BDPS-FRM-203
CITY OF DALLAS
ETHNIC WORKFORCE COMPOSITION REPORT
(Note: Please use the Tab button, mouse or arrows to move from one section to the next. Please DO NOT use the “Enter” key.)

Company name: ________________________________
Address: ________________________________________
Bid #: __________________________________________
Telephone Number: _______________ Ext. __________
Email Address: ___________________________________

For Goods/Services
Please complete the following sections based on the ethnic composition of the (location) entity which is
listed on the signature page for RFB form BDPS-FRM-115, for RFCSP form BDPS-FRM-134.
For Construction/Architectural & Engineering the referenced forms do not apply.

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<th>Total No. Employees</th>
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<th>Black</th>
<th>Hispanic</th>
<th>Other</th>
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Officer’s Signature: ____________________________ Title: ____________________________
Typed or Printed Name: __________________________ Date: ____________________________

Rev. 3 – 1/24/14
Doc.#BDPS-FRM-204
**CITY OF DALLAS**  
**CONTRACTOR’S AFFIDAVIT**  
**SCHEDULE OF WORK AND ACTUAL PAYMENT FORM**

**Project Name:**  

**Bid/Contract #:**

**Instructions:**

Column 1: List type of work to be performed by Prime and 1st tier subcontractors.

Column 2: City of Dallas Vendor Number for Prime and Subcontractors/Suppliers (If none, register online: www.bids.dallascityhall.org). ALL Prime and Subcontractors/Suppliers must be registered with the City of Dallas.

Column 3: List name of firm; M/WBE Certification Number (if applicable).

Column 4: List firm(s); contact name; address; telephone number.

Column 5: List ethnicity of firm(s) owner as B=African American; H=Hispanic; I=Asian Indian; N=Native American; P=Asian Pacific; W=Women; NON=other than M/WBE.

Column 6: Indicate firm’s location as L=local (within Dallas county limits); N=Non-local (Outside Dallas county limits).

Column 7: Indicate dollar amount of value of work for the Prime contractor, subcontractors, and suppliers.

Column 8: Indicate percentage of total contract amount.

Column 9: Indicate total payments to date.

Column 10: Indicate payments during current pay period.

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<th>Type of Work</th>
<th>City of Dallas Vendor Number</th>
<th>Name of Firm &amp; M/WBE Certification (If Applicable)</th>
<th>Contact Name Address, City, State, Zip &amp; Tel. Number</th>
<th>Type of Firm</th>
<th>L or N</th>
<th>Value of Work ($)</th>
<th>Percent (%)</th>
<th>Payments to Date ($)</th>
<th>Payment this Period ($)</th>
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CITY OF DALLAS
SUBCONTRACTOR INTENT FORM
(Note: Please use the Tab button, mouse or arrows to move from one section to the next. Please DO NOT use the "Enter" key.)

TO: City of Dallas
Business Development & Procurement Services

Project Name: ___________________________________________ Bid #: ____________________________

MWBE Subcontractor on the project ____________________________________________________________________

will provide the following
good(s)/service(s): ___________________________________________

________________________________________________________________________

to ____________________________________________

Prime Contractor on the project ____________________________________________________________________

MWBE subcontractor is currently certified by the following agency: ____________________________________

MWBE Certification Number: # ____________________________________________________________________
Certification must be kept current / valid for the entire duration of this contract. Failure to comply with this provision could be subject to removal from contract.

For the purpose of MWBE subcontracting participation, the City of Dallas does not include amounts paid to the prime by the sub-contractor.

Total Contract Amount for prime ________________ $ ____________________________________________________________________

MWBE/DBE Sub Participation Amount ________________ $ ____________________________________________________________________

________________________________________________________________________

The undersigned intends to enter into a formal agreement with the subcontractor listed, conditioned upon being awarded the City of Dallas contract. The undersigned understands that, for the purpose of MWBE subcontracting participation, any amounts paid to the prime from the sub contractor shall not be included in the above listed participation amount. Finally, before any subcontractor changes are made, the prime contractor must submit to the Business Inclusion and Development Group for approval, a Change of MWBE subcontractor/supplier form prior to any changes. Failure to comply with these provisions could result in termination of the contract, sanctions against the prime contractor, and/or ineligibility for future City contracts.

Officer's Signature (Prime Contractor) ____________________________________________

Printed Name (Prime Contractor) ____________________________________________

Title (Prime Contractor) ____________________________________________

Officer's Signature (MWBE/DBE Subcontractor) ____________________________________________

Printed Name (MWBE/DBE Subcontractor) ____________________________________________

Title (MWBE/DBE Subcontractor) ____________________________________________

Date ____________

Please select or list all Chambers or Advocacy groups you are a member of:

Greater Dallas Asian American Chamber of Commerce ____________________________
Greater Dallas Black Chamber of Commerce ____________________________
Greater Dallas Hispanic Chamber of Commerce ____________________________
U.S. Pan Asian American Chamber of Commerce ____________________________

Other ____________________________________________

Rev.5 – 06/2/16
Doc#BDPS-FRM-214
CITY OF DALLAS
Business Inclusion and Development Documentation Form

(Note: Please use the Tab button, mouse or arrows to move from one section to the next. Please DO NOT use the “Enter” key.)

Project Name ________________________________ Bid #: ____________________________

Firm Name and Address: ____________________________________________________________

1. Did you meet with a staff member of Business Development and Procurement Services (BDPS)?
   Please make a selection: ______ Name of staff member: _________________________

2. Did you utilize a current M/WBE directory from the City’s BDPS ResourceLINK Team for this project?
   Please make a selection: ______ Date of Listing: ______________________________

3. Did you provide plans and specifications, bids or proposals to potential M/WBEs or information regarding the location of plans and specifications, bids, or proposals for this project?
   Please make a selection: _________________________________________________________

4. If M/WBE bids and proposals were received and rejected, you must attach documentation of the received bid and the reason for rejection? (i.e. letters, memos, telephone calls, meetings, etc.)

5. Complete the attached Documentation Form(s) to further explain good faith efforts to obtain M/WBE participation on this project. If there is written documentation of efforts with the M/WBEs who responded affirmatively to the bidder’s written notice please attach documentation (i.e. quotes, or e-mails).

Rev. 1 - 1/29/10
Doc#BDPS-FRM-215

Page 1 of 3
### CITY OF DALLAS
#### Business Inclusion and Development Documentation Form

(Note: Please use the Tab button, arrows or mouse to move from one section to the next. Please DO NOT use the "Enter" key.)

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<tr>
<th>Project Name #:</th>
<th>Bid #:</th>
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<tr>
<th>Firm Name and M/WBE Certification Number</th>
<th>Person Contacted and Date</th>
<th>Telephone Number and Email Address</th>
<th>Type of Work</th>
<th>Method of Communication (Telephone/Email)</th>
<th>Response</th>
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Please use the form(s) below if additional space is needed. **Intentional misrepresentation could result in criminal prosecution.**

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<th>Date:</th>
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Mill Creek / Peaks Branch / State Thomas Drainage Relief Tunnel

Project Information
Schedule Constraints
Construction Considerations
Contract Considerations

- Escrow bid documents due within 3 days of notification of apparent low bid (A-46)
- Project does not include a Dispute Review Board
- GBR and DSC clauses are for shaft and tunnel work only - do not cover surface and near surface work (A-47)
- Site security requirements at Site O (A-61)
- Pre-construction property condition survey (01401)
- Contractor not responsible for building demolition
Construction Considerations

• No blasting allowed
• Potentially gassy classification
• Muck main tunnel from Site O only
• Concrete lining of main tunnel only from Sites O and F
• Power at Site O (8,000 kVA – 3-phase 13.2kV) (A-33)
• Probe and grout (02950)
• Settlement monitoring at Woodall Rodgers Frwy bridge foundations and DART tunnels (02970)
• Required rest breaks per City ordinance
Construction Considerations

- Core Viewing at Hensley Field (Directions Provided)
  - Today 1:00 PM until 5:00 PM
  - Tomorrow 9:00 AM until 5:00 PM
- Site Visits
  - On Your Own (Directions Provided)
- Partnering
- Permits
  - Stormwater
  - Building (for dewatering station building)
  - Street cut
- Geotechnical Engineering Studies for near surface work
Schedule Constraints

• Muck Hauling (A-31)
  • Monday through Friday - 7:00 AM to 7:00 PM
  • Saturday - 8:00 AM to 7:00 PM
  • Sunday/Holidays – No hauling allowed

• Noise Ordinance Work Hours (A-31)
  • Sites O, C, F - Variance in place to allow work any day without hour restrictions
  • Sites A, D, E - Variance in place to allow work Monday through Saturday without hour restrictions.
  • Sites A, D, E - No Work on Sundays and Holidays
  • Must comply with noise ordinance requirements
    • Failure may cause loss of 24-hour work variance
  • Must comply with Section 01580 – Noise Abatement
Schedule Constraints

• Site A
  • Not available September 1 through November 1 each year for State Fair operations
  • Commencement of work may not start between May 1 and November 1

• Site D
  • Carroll Avenue improvements adjacent to Ignacio Zaragosa School conducted only during summer months
Bid Submittal

- Must price all base bid schedules
- Must price all deductive bid alternatives
- Must acknowledge all addenda
- Submit all required Documents
- Bids Due September 1, 2017, by 1:00 PM
- Deliver sealed bids to:
  Office of the Purchasing Agent of the City of Dallas, City Hall, Room 3FN, 1500 Marilla Street, Dallas, TX
- Website Information
  www.dallascityhall.com/departments/trinitywatershedmanagement
Questions

• Send questions via email to –
  Ray Brainard – Pre-Construction Manager
  brainardrc@bv.com

• Responses will be provided through addendum to all plan holders
Networking Opportunity