

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

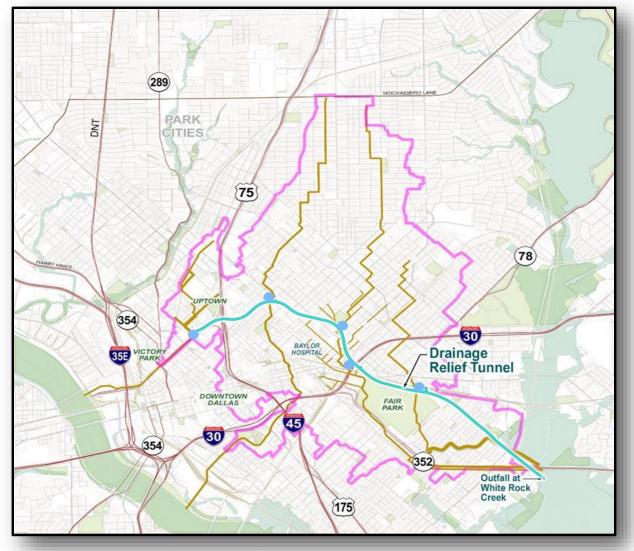
Project Schedule



- 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





Mill Creek / Peaks Branch /State Thomas Background



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



Photo shows cars that floated – Fair Park

Flooding of IH-30



March 2006



Baylor Hospital Area Flooding



March 2006





Skillman near Oram

Munger

Peaks Branch Flooding



March 2006



Worth Street Flooding

Mill Creek / Peaks Branch /State Thomas Background

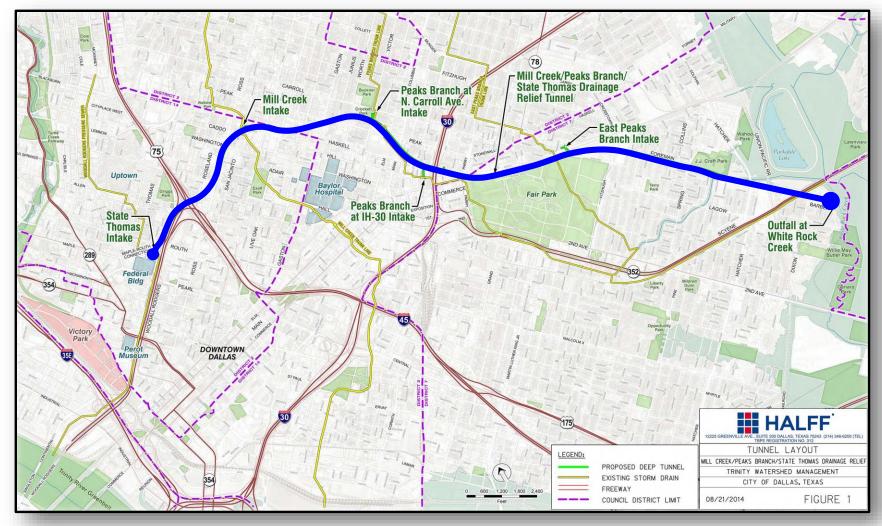


Bond Programs in 2006 and 2012 provided funding for storm drainage relief systems for the Mill Creek, Peaks Branch and State-Thomas areas

- 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 <u>Drainage Tunnel</u>





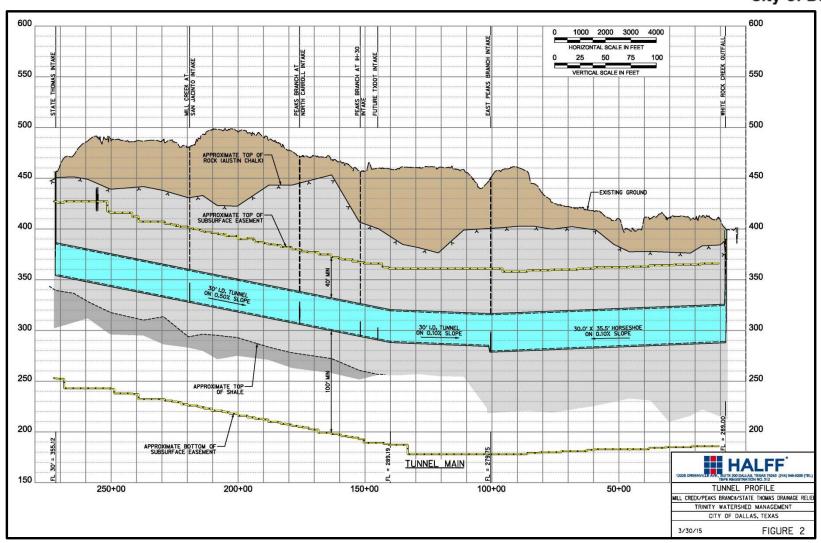
Project Summary



- 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

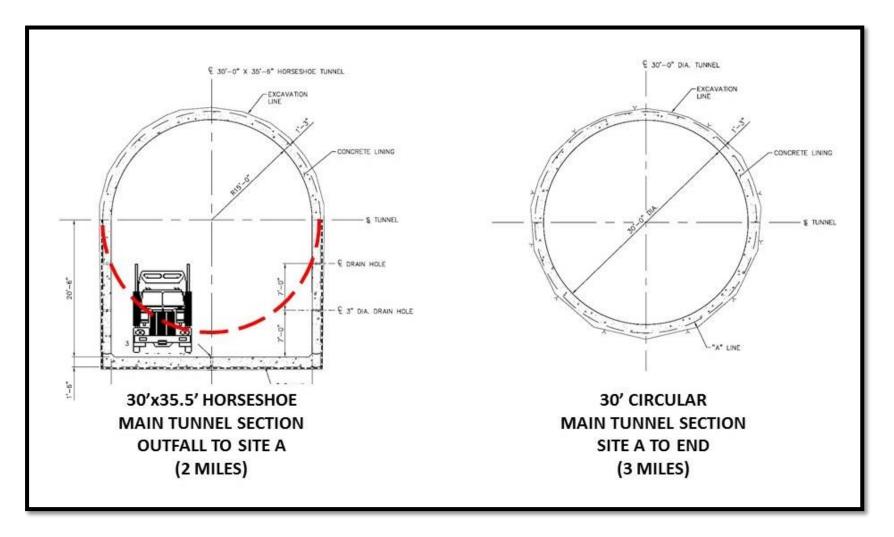
Tunnel Profile

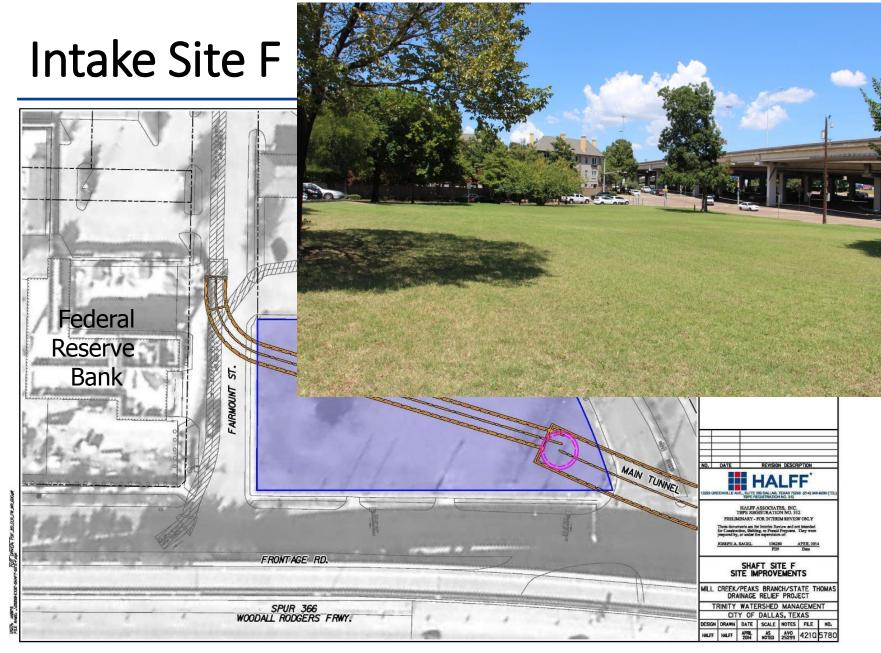




Tunnel Sections

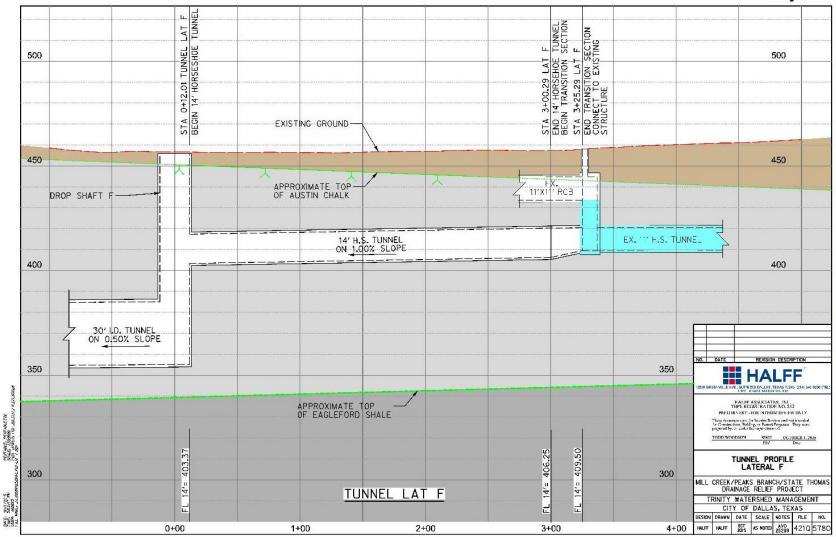


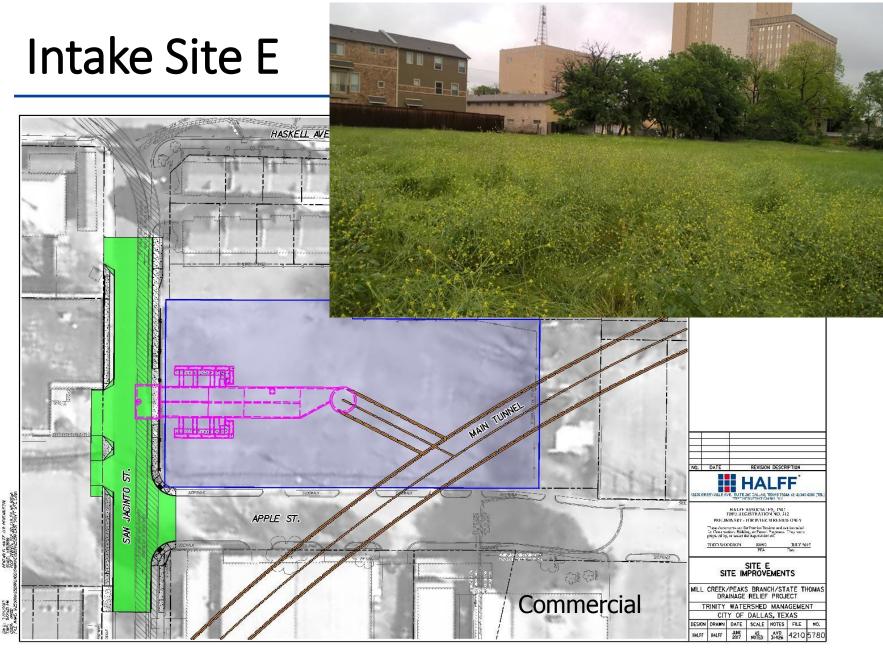




Tunnel Lateral F

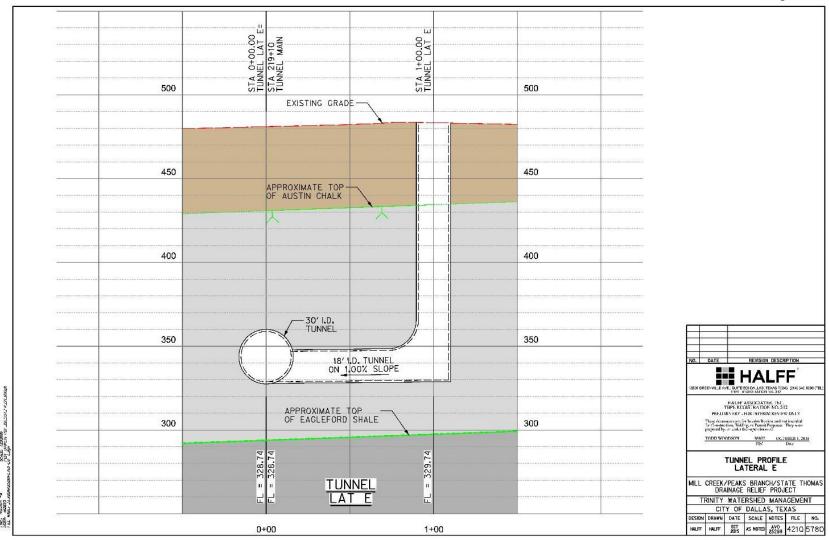


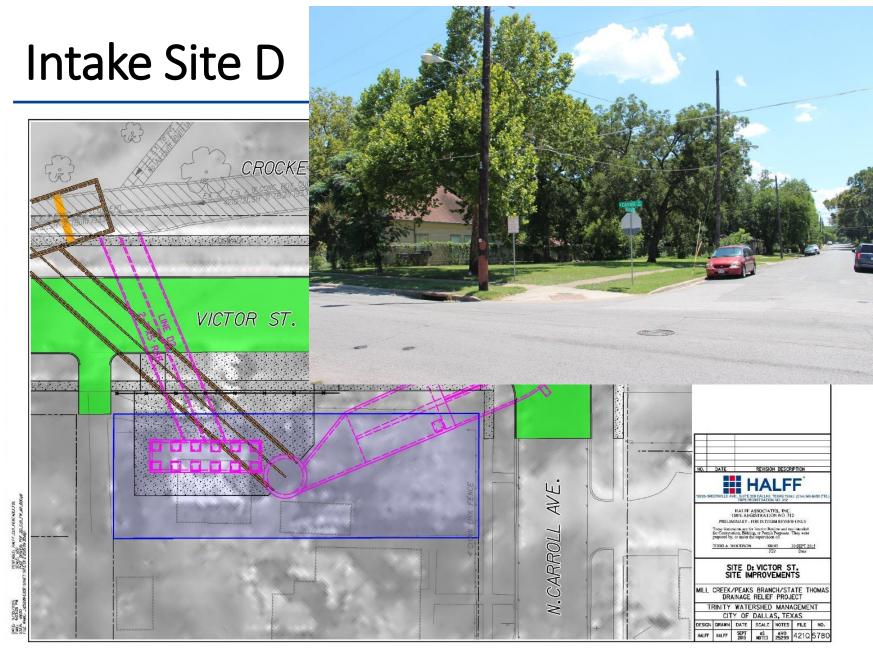




Tunnel Lateral E

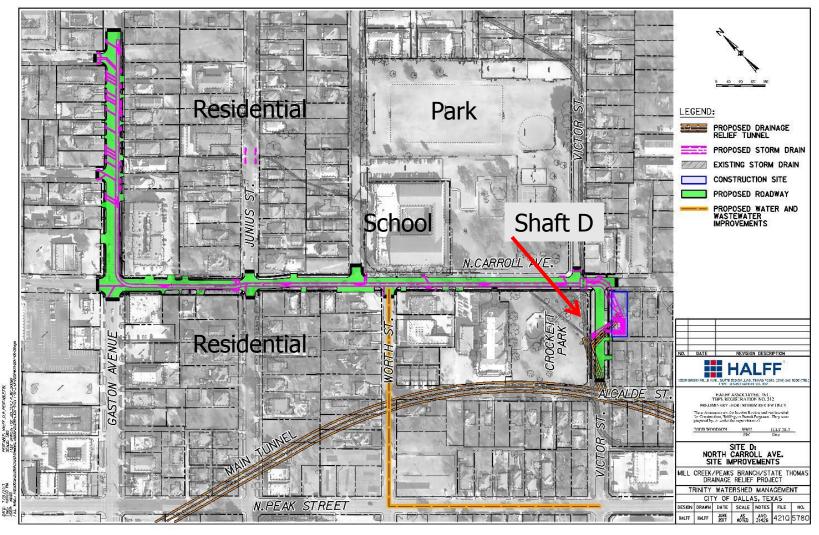




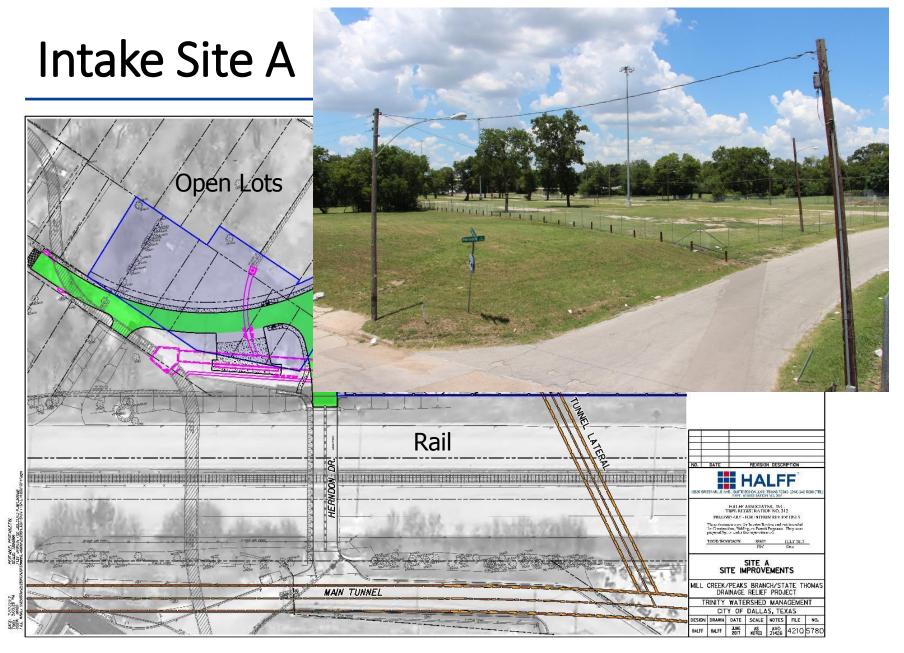


Site D - Surface Improvements



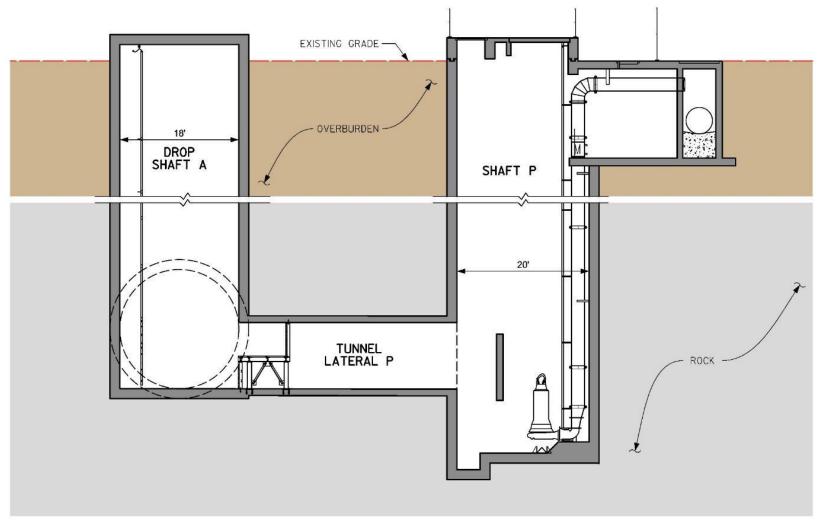


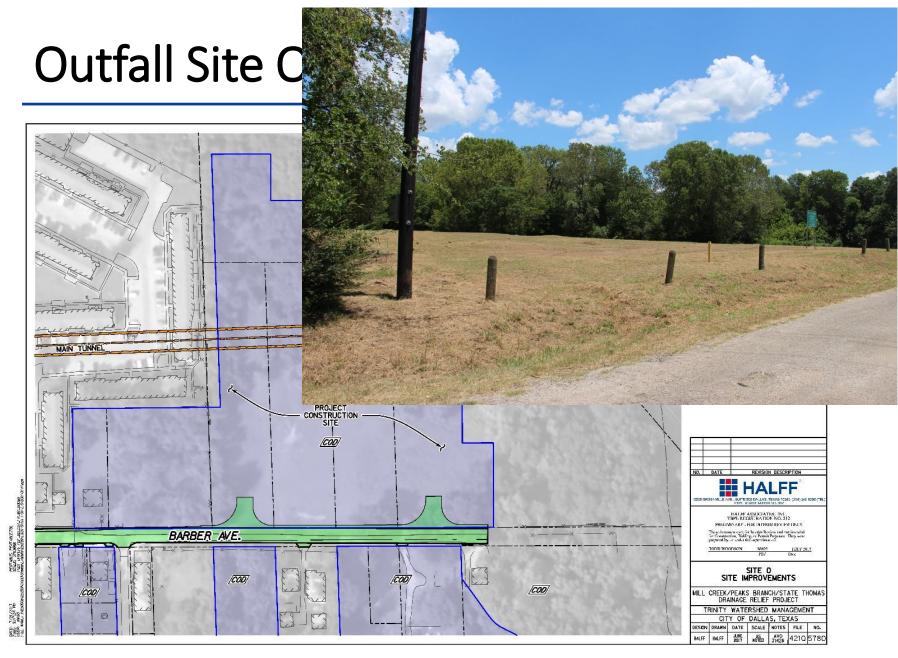




Dewatering Pump Station

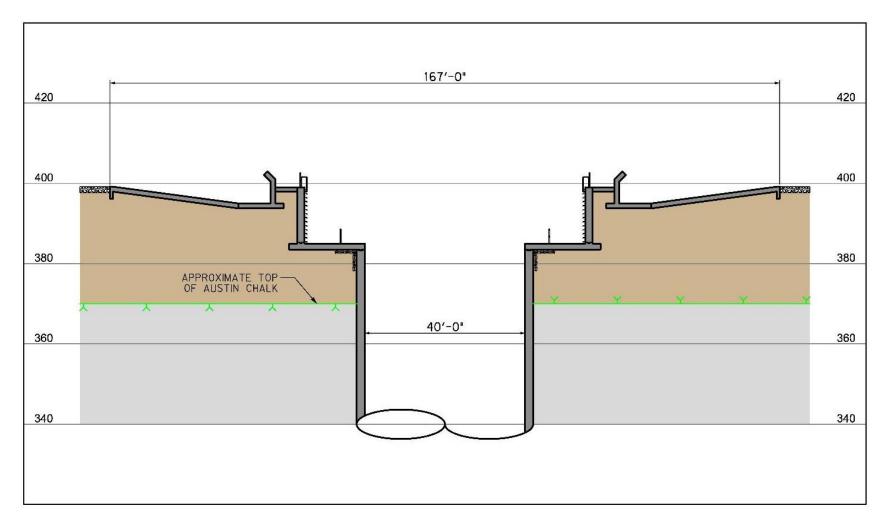






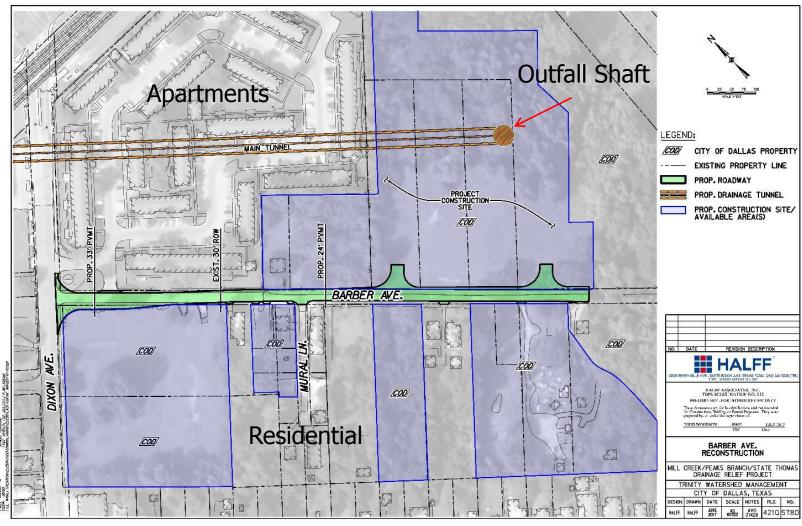
Tunnel Outfall Structure





Outfall Site O





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)

City of Dallas 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 ≥ 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



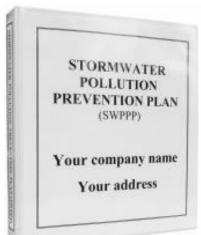


SWP3 Requirements



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

Stormwater Management



Mailing Address

City of Dallas

Stormwater Management

320 E. Jefferson Blvd., Rm. 108

Dallas, TX 75203

Email

stormwater@dallascityhall.com

Website

www.wheredoesitgo.com

Contact

Kevin Hurley 214-948-4022



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
 - www.dfwmsdc.com
 - 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):

ĺ			Other	Other	
ı	Construction	Architectural & Engineering	Professional	Services	Goods
ı	25.00%	25.66%	36.30%	23.80%	18.00%
ı					

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 1 ab button, mouse or arrow	s to move from one section	in to the next. Please DO NOT use the "Enter" key.)
Bid Number:	Company Name:	
Typed or Printed Name of Certifying Official of Com	pany	Date
Signature of Certifying Official of Company		Title



Form **203**

Form #1

Rev. 2 – 8/9/12 Doc # BDPS-FRM-203 1 of 1



CITY OF DALLAS ETHNIC WORKFORCE COMPOSITION REPORT

)
City of Dal	llas

Form	
204	

Form #2

(Note: Please use the Tab button,	mouse or arr	ows to move fro	om one section to the next. <i>Please I</i>	OO NOT use the "Enter" key.)
Company name:				
Address:				
Bid #:				
Telephone Number:	æ	ā.	Ext.	
Email Address:				
\$2 .				

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-116, for RFCSP form BDPS-FRM-134
For Construction/Architectural & Engineering the referenced forms do not apply.

Employee Classification		al No. loyees	Wi	White		ack	Hispanic		Other	
	Male	Female	M	F	М	F	М	F	M	F
Administrative/ Managerial				;						
Professional		- 6								
Technical								3		
Office/Clerical										
Skilled										
Semiskilled	8.8	3		9						
Unskilled								3 ·		
Seasonal										
Totals:										

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 6: Indicate firm's location as L=local (within Dallas county limits); N=Non-local (Outside Dallas county limits).
Column 2: City of Dallas Vendor Number for Prime and Subcontractors/Suppliers (If none online: www.bids.dallascityhall.org). ALL Prime and Subcontractors/Suppliers registered with the City of Dallas.	
Column 3: List name of firm; M/WBE Certification Number (if applicable).	Column 8: Indicate percentage of total contract amount.
Column 4: List firm(s); contact name; address; telephone number.	Column 9: Indicate total payments to date.
Column 5: List ethnicity of firm(s) owner as B=African American; H=Hispanic; I=Asian Inc N=Native American; P=Asian Pacific; W=Woman; NON=other than M/WBE.	lian; Column 10: Indicate payments during current pay period.

Form 213

Form #3

Type of Work			Contact Name Address, City, State, Zip	Type of Firm	L	Value of Work (\$)	Percent (%)	Payments to Date	Payment this
	Vendor Number		& Tel. Number		or			(\$)	Period (\$)
		Applicable)			N				
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Rev. 3 - 3/8/12

Doc#BDPS-FRM-213 Page 1 of 2



Rev.5 – 06/2/16 Doc#BDPS-FRM-214

CITY OF DALLAS SUBCONTRACTOR INTENT FORM

	Note: Please use the Tab button, mouse	or arrows to m	ove from one	section to the ne	xt. Please DO NO	T use the "Enter" key.)
TO:	City of Dallas			DATE:		
	Business Development & Procure	ment Service	es			
Proje	ect Name:			Bid #		
	,			_	will	provide the following
	M/WBE Subco	ontractor on the	project			
good	(s)/service(s):					
to						
-	Prime Contracto	or on the project				
	,					
MVVE	BE subcontractor is currently certifie	d by the follo	wing agend	;y:		
N 4 A A /	DE Cartification Number #					
Certifi	BE Certification Number: # cation must be kept current / valid for the	e entire duratio	n of this con	ract. Failure to c	omply with this p	rovision could be
subje	ct to removal from contract.					
	he purpose of M/WBE subcontra orime by the sub-contractor.	cting partici	pation, the	City of Dallas	does not inc	lude amounts paid t
Total	Contract Amount for prime	\$				NCTRCA
MVVE	BE/DBE Sub Participation Amount	\$			9,	DFWMSDC WBCSW
partic partic Busin any c	undersigned intends to enter into a ded the City of Dallas contract. The cipation, any amounts paid to the properties inclusion and Development Grenanges. Failure to comply with the rime contractor, and/or ineligibility for	e undersigned prime from the subcontraction oup for appro- ese provisions	d understar ne sub con or changes oval, a Char s could res	ids that, for the tractor should are made, the page of M/WBE s	e purpose of Manot be included prime contractors subcontractors	WBE subcontracting d in the above listed or must submit to the supplier form prior to
Office	er's Signature (Prime Contractor)		Off	cer's Signature ((MWBE/DBE Su	bcontractor)
Printe	ed Name (Prime Contractor)		Pri	nted Name (M/W	BE/DBE Subcor	ntractor)
Title (Prime Contractor)		Titl	e (M/WBE/DBE S	Subcontractor)	
Tide (Time contractory		110	C (WWW.DED DEC	Subcontractory	
Date			Dat	е		
Please	e select or list all Chambers or Advocacy gro	sups you are a m	nember of:			Prime Sub
Greate	r Dallas Asian American Chamber of Commerce er Dallas Black Chamber of Commerce er Dallas Hispanic Chamber of Commerce ran Asian American Chamber of Commerce	Prime Sub	Regional Bla	actors Association ack Contractors As spanic Contractors	sociation	Prime Sub
Other						



214 (Rev 5)

Form

Form #4



Form **215**

Form #5

CITY OF DALLAS Business Inclusion and Development Documentation Form

	Control of the Contro	se use the Tab button, mouse or arrows to move from one section to the next. Please DO NOT use the "Enter" key.)
Proje	ct Name	Bid #:
Firm	Name and Address:	
1.		staff member of Business Development and Procurement Services (BDPS)?
	Please make a selection	on: Name of staff member:
2.	Did you utilize a curr	ent M/WBE directory from the City's BDPS ResourceLINK Team for this project?
	Please make a selection	on: Date of Listing:
3.		s and specifications, bids or proposals to potential M/WBEs or information regarding the location of plans and or proposals for this project?
4.		roposals were received and rejected, you must attach documentation of the received bid and the reason for rejection? (i.e. hone calls, meetings, etc.)
5.		ed Documentation Form(s) to further explain good faith efforts to obtain M/WBE participation on this project. If there is on of efforts with the M/WBEs who responded affirmatively to the bidder's written notice please attach documentation (i.e.
	/29/10	Page 1 of 3
	PS-FRM-215	rage 1 01 3



Form **215**

Form #5



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.)

	Bid #:									
Firm Name and M/WBE Certification Number	Person Contacted and Date	Telephone Number and Email Address	Type of Work	Method of Communication (Telephone/Email)	Response					
		ER B								
		W -								
		H :								
		- x								
ease use the form(s) below if addition	nal space is needed. Intention:	I al misrepresentation could resul	t in criminal prose	cution.						
fficer's Signature:			Title:	Date:						
				Date:						

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





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



