

# FOUNDATION EXPLORATION CERTIFICATION

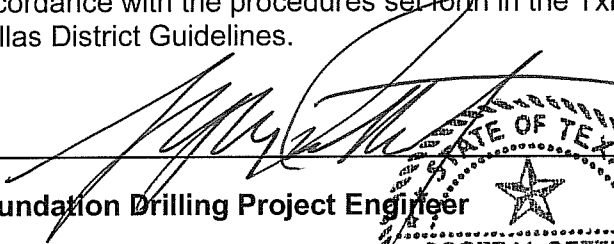
CSJ No.: 0094-03-104

Highway: SH 183 WBFR Wingren  
to O'Connor

Contractor: STL Engineers

Structure: Sound Wall

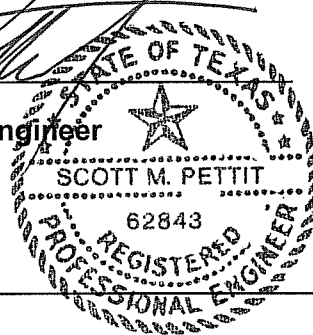
I certify that the foundation exploration drilling and logging performed on this project were done in accordance with the procedures set forth in the TxDOT Geotechnical Manual (Aug 2006) and Dallas District Guidelines.

  
\_\_\_\_\_  
Foundation Drilling Project Engineer

Date: 8-17-2009

Remarks:

TX Engr. Firm #8133  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



All of the witnessed foundation exploration drilling and logging procedures were performed in accordance with the standards set forth in the TxDOT Geotechnical Manual (Aug. 2006).

\_\_\_\_\_  
Date: \_\_\_\_\_

**Dallas District Drilling Manager (TxDOT)**

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_

**District Materials Engineer**

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# DRILLING LOG

WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-01  
Structure  
Station  
Offset

District Dallas  
Date 7/24/09  
Grnd. Elev. 526.79 ft  
GW Elev. 511.79 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Deviator Press. (psi)	Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
522.8			CLAY, soft, moist, brown, sandy (CL)							
5		7 (6) 9 (6)	CLAY, stiff, moist, brown (CL)							
10		10 (6) 10 (6)								
515.8			CLAY, stiff to very stiff, moist, tan, sandy (CL)							
15		13 (6) 18 (6)								
506.8		23 (6) 50 (6)	CLAY, very stiff, moist, tan, sandy, gravelly (CL)							
25		22 (6) 48 (6)								
500.8			SHALE, soft to hard, gray							
30		50 (2) 50 (1.75)								

Remarks: Seepage encountered at 15' during drilling. Dry at completion. NAD 83 Surface Coordinates 6992350 2446948.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers

# DRILLING LOG



WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-01  
Structure  
Station  
Offset

District Dallas  
Date 7/24/09  
Grnd. Elev. 526.79 ft  
GW Elev. 511.79 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Deviator Press. (psi)	Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			SHALE, soft to hard, gray							
35		50 (1.25) 50 (2.5)								
40		50 (2.25) 50 (1.5)								
45		50 (1.5) 50 (1.25)								
50		50 (1) 50 (0.75)								
55		50 (1) 50 (1)								
60		50 (1.5) 50 (0.75)								

Remarks: Seepage encountered at 15' during drilling. Dry at completion. NAD 83 Surface Coordinates 6992350 2446948.

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Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers



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WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-01  
Structure  
Station  
Offset

District Dallas  
Date 7/24/09  
Grnd. Elev. 526.79 ft  
GW Elev. 511.79 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
65		50 (2) 50 (1.25)	SHALE, soft to hard, gray							
70		50 (1.5) 50 (1)								
75		50 (1) 50 (0.75)								
446.8 80		50 (0.75) 50 (1.25)								
85										
90										

Remarks: Seepage encountered at 15' during drilling. Dry at completion. NAD 83 Surface Coordinates 6992350 2446948.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers



# DRILLING LOG

WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-02  
Structure  
Station  
Offset

District Dallas  
Date 7/25/09  
Grnd. Elev. 523.59 ft  
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		6 (6) 8 (6)	CLAY, soft, moist, brown, sandy (CL)							
10		9 (6) 11 (6)								
511.6			CLAY, stiff, moist, tan and gray, shaley (CH)							
15		15 (6) 13 (6)								
504.6			CLAY, stiff, moist, brown, sandy (CH)							
20		13 (6) 19 (6)								
501.6			CLAY, stiff to very stiff, moist, tan and gray, shaley (CH)							
25		21 (6) 30 (6)								
30		20 (6) 27 (6)								

Remarks: Boring dry at completion. NAD 83 Surface Coordinates 6992217 2445657.

The ground water elevation was not determined during the course of this boring.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers



# DRILLING LOG

WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-02  
Structure  
Station  
Offset

District Dallas  
Date 7/25/09  
Grnd. Elev. 523.59 ft  
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
35		25 (6) 20 (6)	CLAY, stiff to very stiff, moist, tan and gray, shaley (CH)							
40		28 (6) 33 (6)								
45		32 (6) 39 (6)								
475.6			SHALE, soft to hard, gray							
50		50 (2) 50 (1.5)								
55		50 (2) 50 (1.75)								
60		50 (1.5) 50 (2)								

Remarks: Boring dry at completion. NAD 83 Surface Coordinates 6992217 2445657.

The ground water elevation was not determined during the course of this boring.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers



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WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-02  
Structure  
Station  
Offset

District Dallas  
Date 7/25/09  
Grnd. Elev. 523.59 ft  
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
65		50 (2) 50 (1.25)	SHALE, soft to hard, gray							
70		50 (1.75) 50 (1)								
75		50 (1.25) 50 (1)								
80		50 (1) 50 (0.75)								
85										
90										

Remarks: Boring dry at completion. NAD 83 Surface Coordinates 6992217 2445657.

The ground water elevation was not determined during the course of this boring.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers



# DRILLING LOG

WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-03  
Structure  
Station  
Offset

District Dallas  
Date 7/22/09  
Grnd. Elev. 515.73 ft  
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
515.2			PAVEMENT, approx. 6 in. thick CLAY, soft, moist, brown, silty (CL)							
5		4 (6) 6 (6)								
505.7		5 (6) 9 (6)	CLAY, soft to very stiff, moist, tan, shaley (CH)							
15		4 (6) 9 (6)								
20		11 (6) 10 (6)								
25		12 (6) 18 (6)								
30		15 (6) 24 (6)								

Remarks: Boring dry at completion. NAD 83 Surface Coordinates 6992187 2444558

The ground water elevation was not determined during the course of this boring.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers





# DRILLING LOG

WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-03  
Structure  
Station  
Offset

District Dallas  
Date 7/22/09  
Grnd. Elev. 515.73 ft  
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
35		27 (6) 33 (6)	CLAY, soft to very stiff, moist, tan, shaley (CH)							
479.7			CLAY, very stiff, moist, tan and gray, shaley (CH)							
40		30 (6) 29 (6)								
45		40 (6) 38 (6)								
469.7			SHALE, soft, gray, weathered, with clay layers							
465.7	50	50 (5) 50 (6)	SHALE, soft to hard, gray							
55		50 (1.5) 50 (1.75)								
60		50 (1.25) 50 (1)								

Remarks: Boring dry at completion. NAD 83 Surface Coordinates 6992187 2444558

The ground water elevation was not determined during the course of this boring.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers



# DRILLING LOG

WinCore  
Version 3.1

County Dallas  
Highway SH 183  
CSJ 0094-03-104

Hole A-03  
Structure  
Station  
Offset

District Dallas  
Date 7/22/09  
Grnd. Elev. 515.73 ft  
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
65		50 (1) 50 (0.75)	SHALE, soft to hard, gray							
70		50 (0.75) 50 (1.25)								
75		50 (1) 50 (1.25)								
435.7 80		50 (0.5) 50 (0.75)								
85										
90										

Remarks: Boring dry at completion. NAD 83 Surface Coordinates 6992187 2444558

The ground water elevation was not determined during the course of this boring.

Driller: D. Buffington

Logger: S. Pettit

Organization: STL Engineers