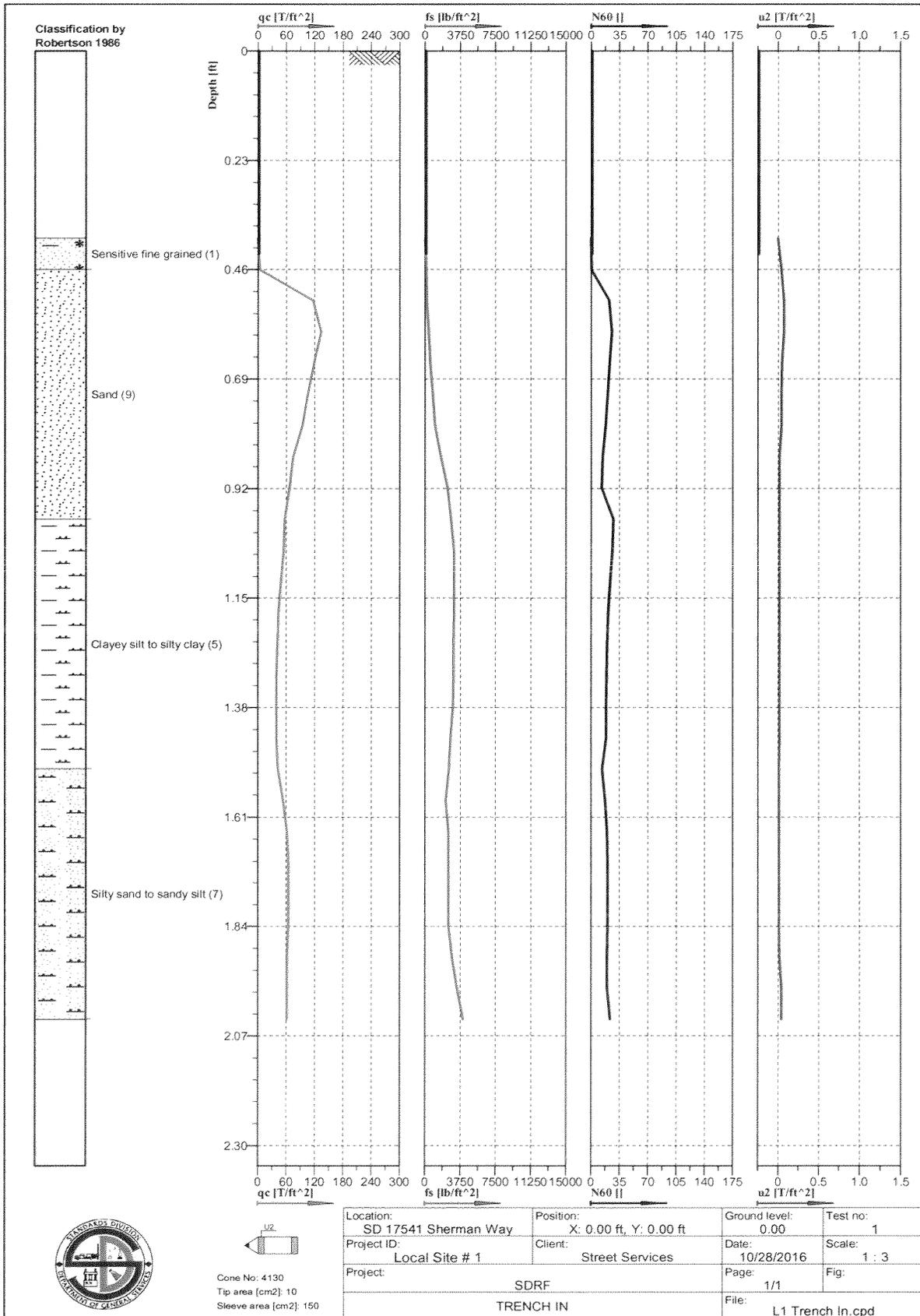
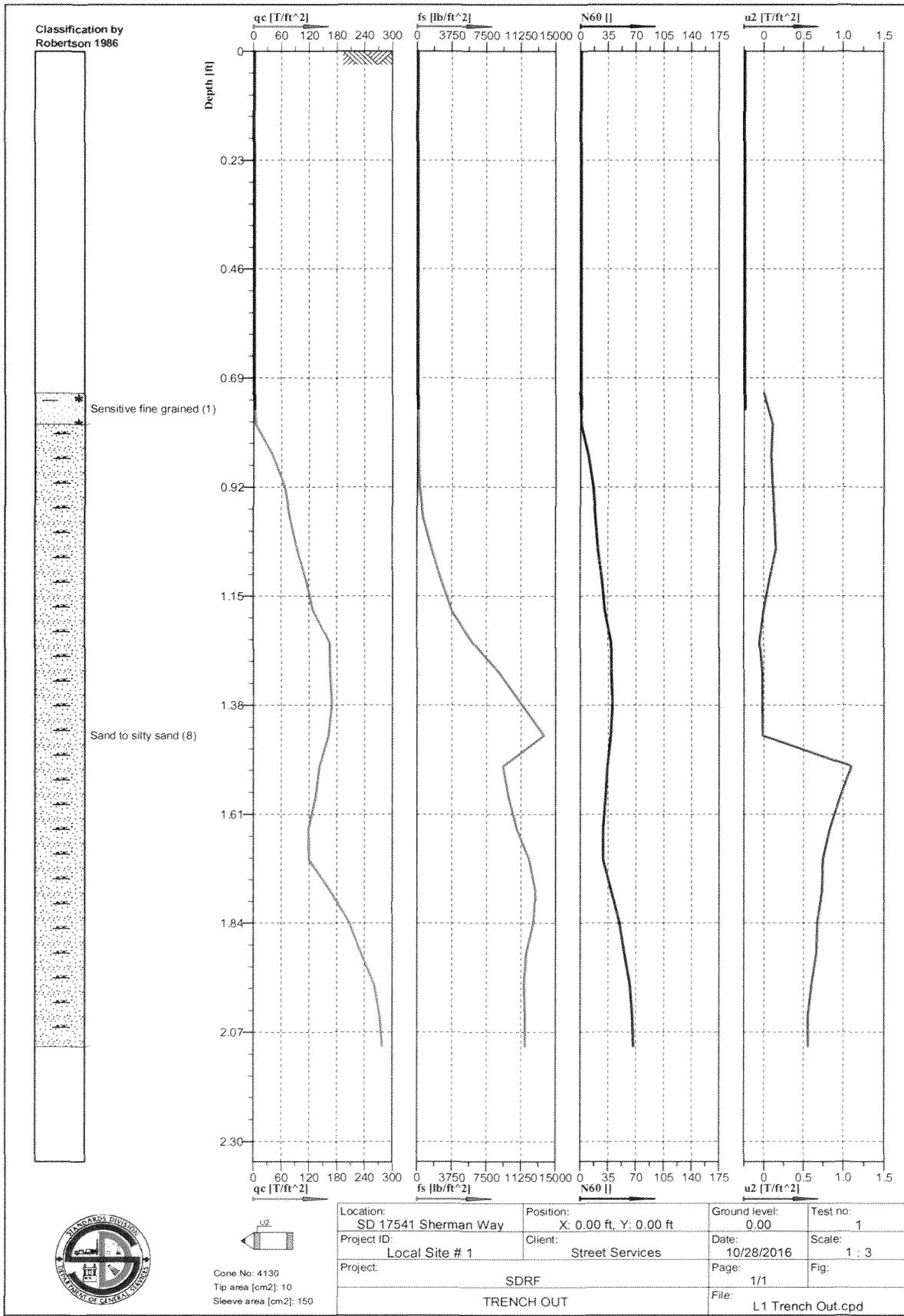


Appendix C
Piezocone Penetration Testing Data

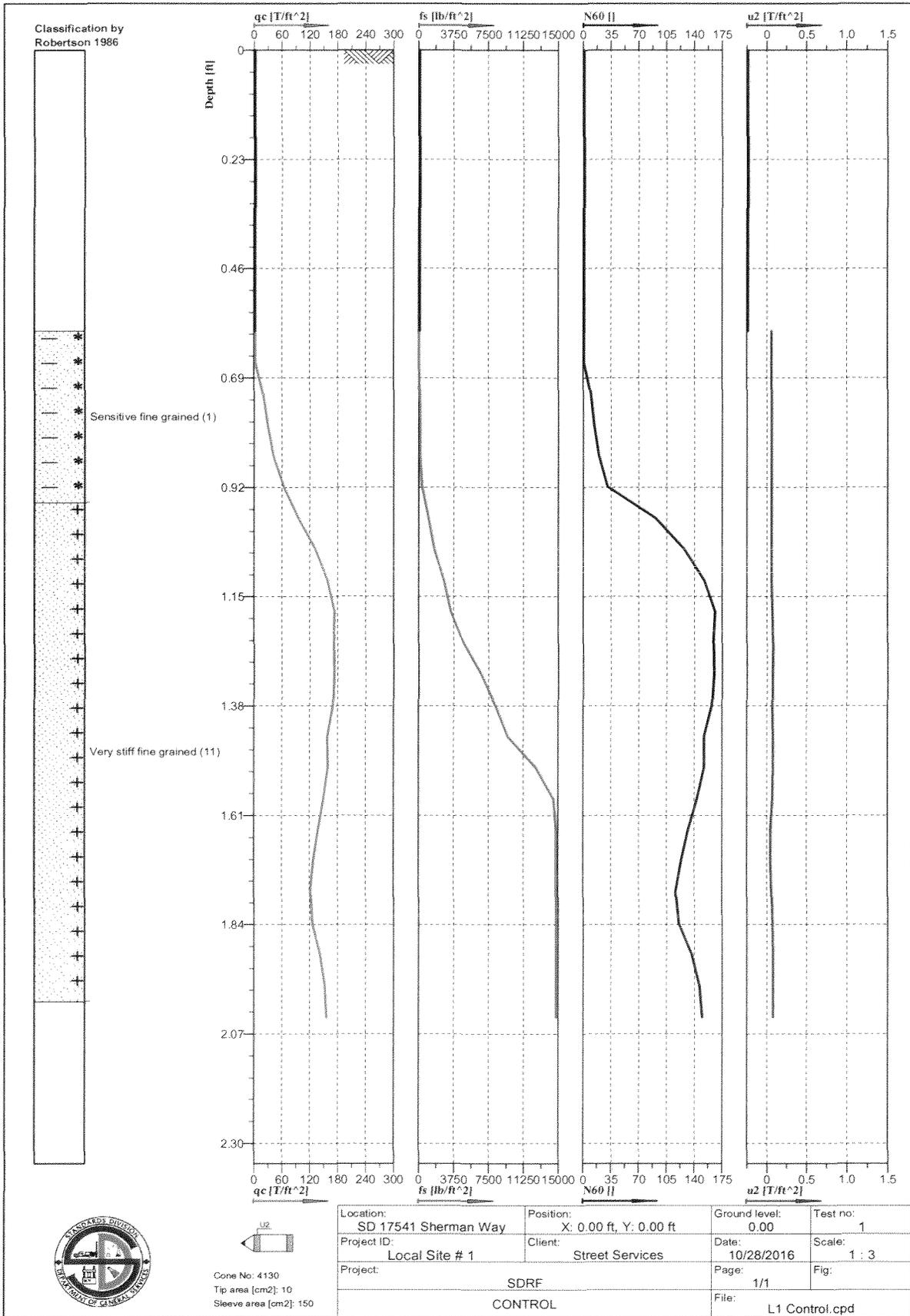
Lab No.: 17-741-031



Lab No.: 17-741-032



Lab No.: 17-741-033



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: SD 17541 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 1	Client: Street Services	Date: 10/28/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L1 Control.cpd	

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

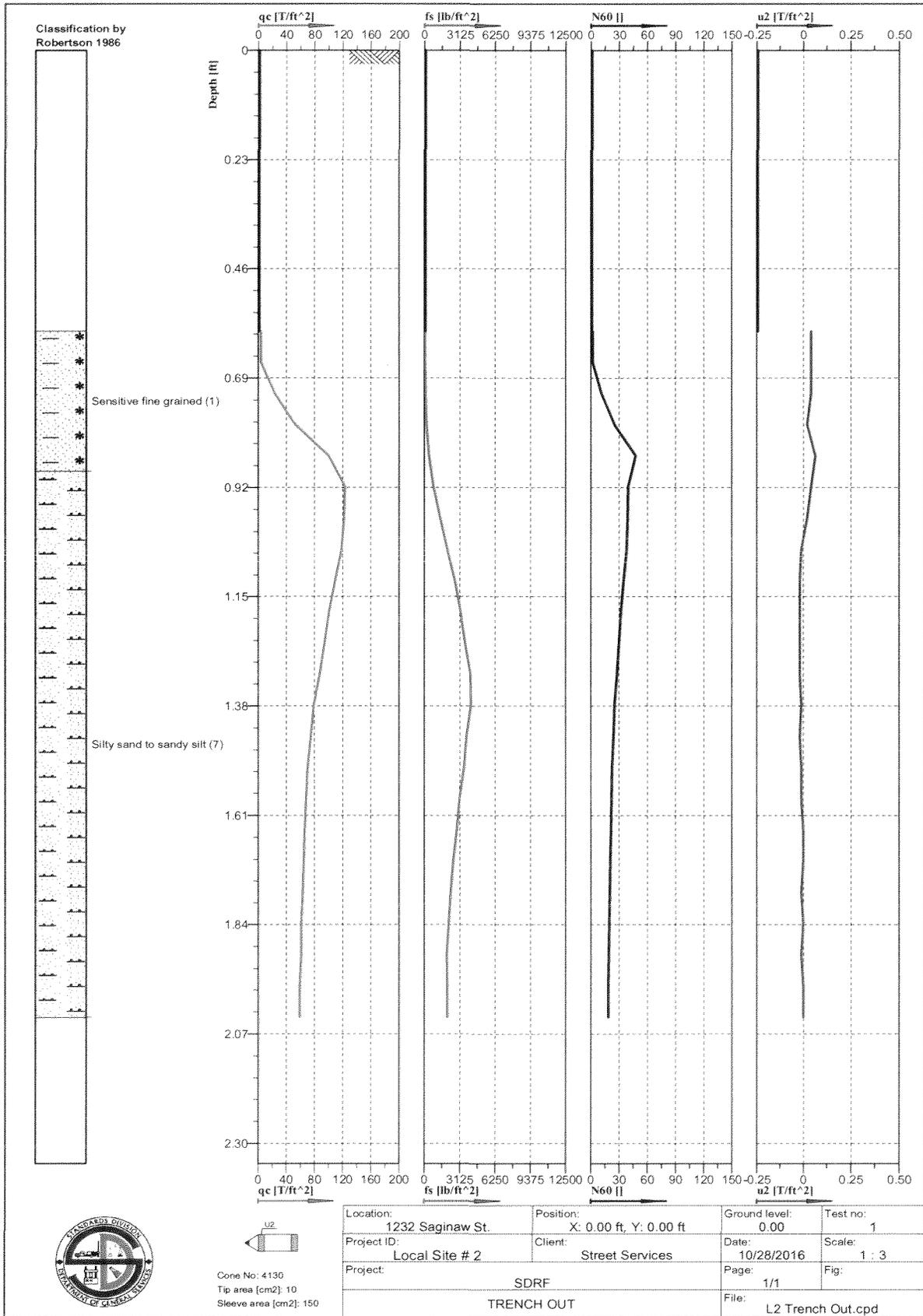
Asphalt thickness = 6.75”.

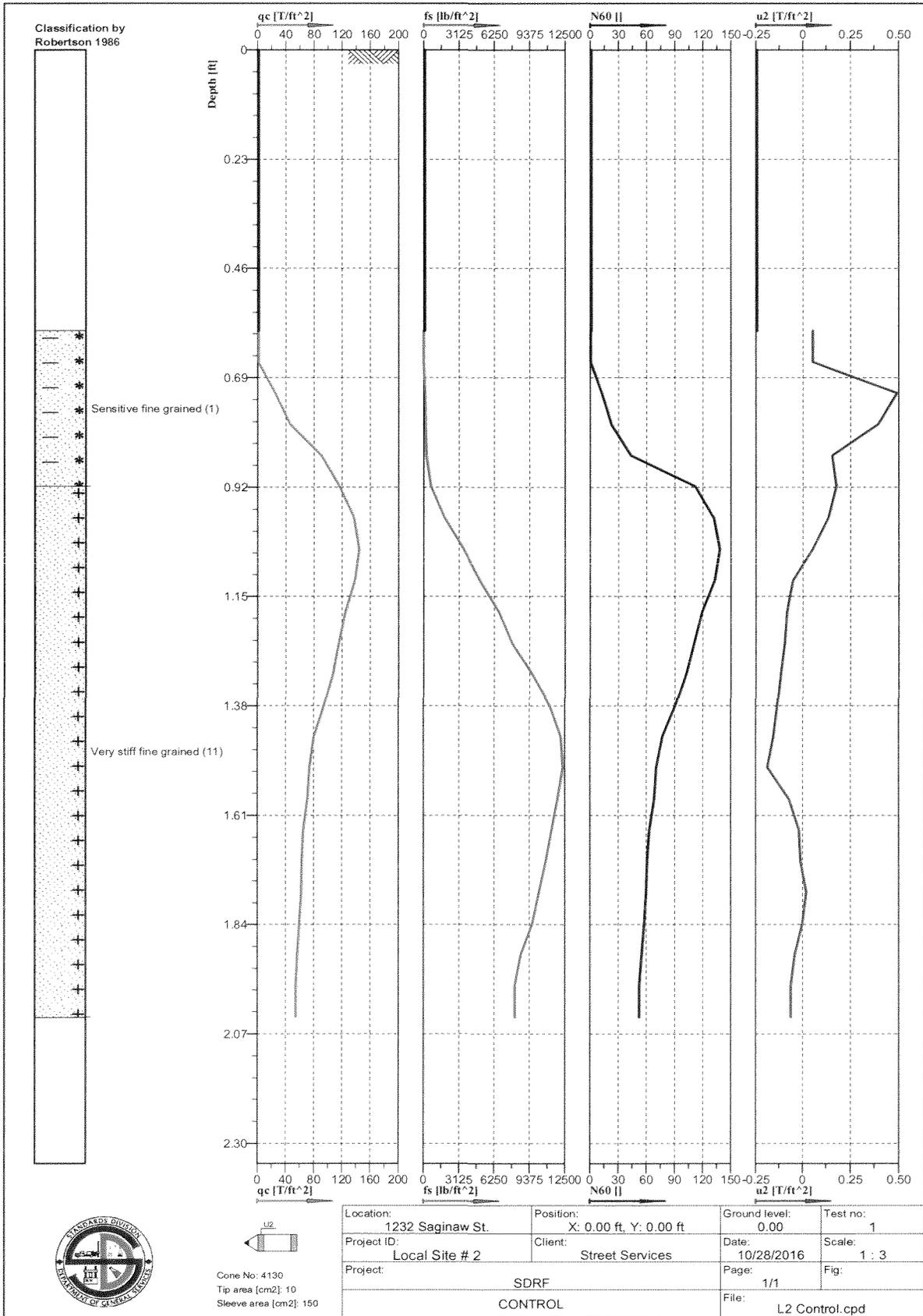


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 1232 Saginaw St.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 2	Client: Street Services	Date: 10/28/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: L2 Trench In.cpd	

Lab No.: 17-741-035





Lab No.: 17-741-037

Trench backfill consists of cemented sand. No CPTU performed in this trench.

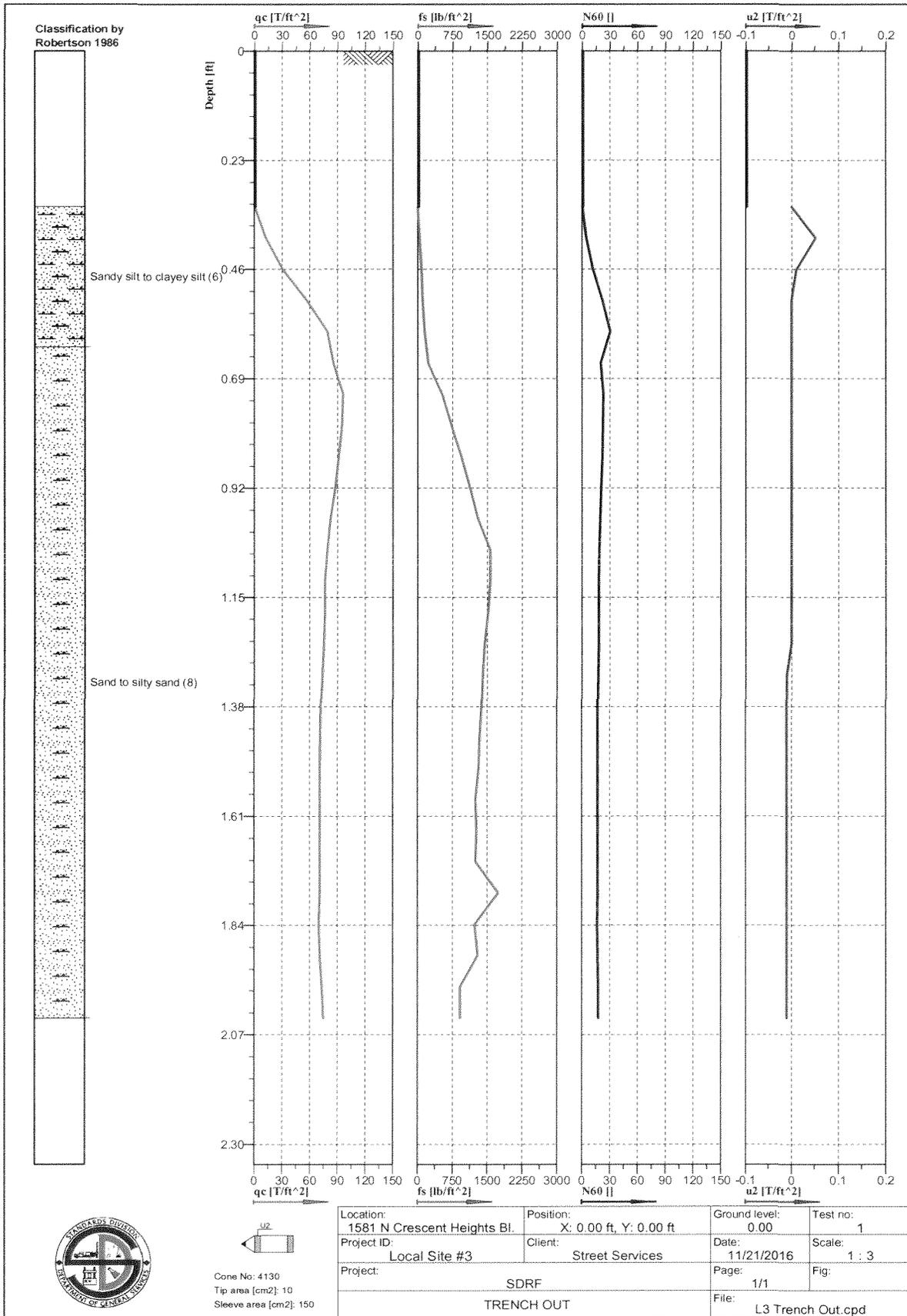
Asphalt thickness = 3.9”.



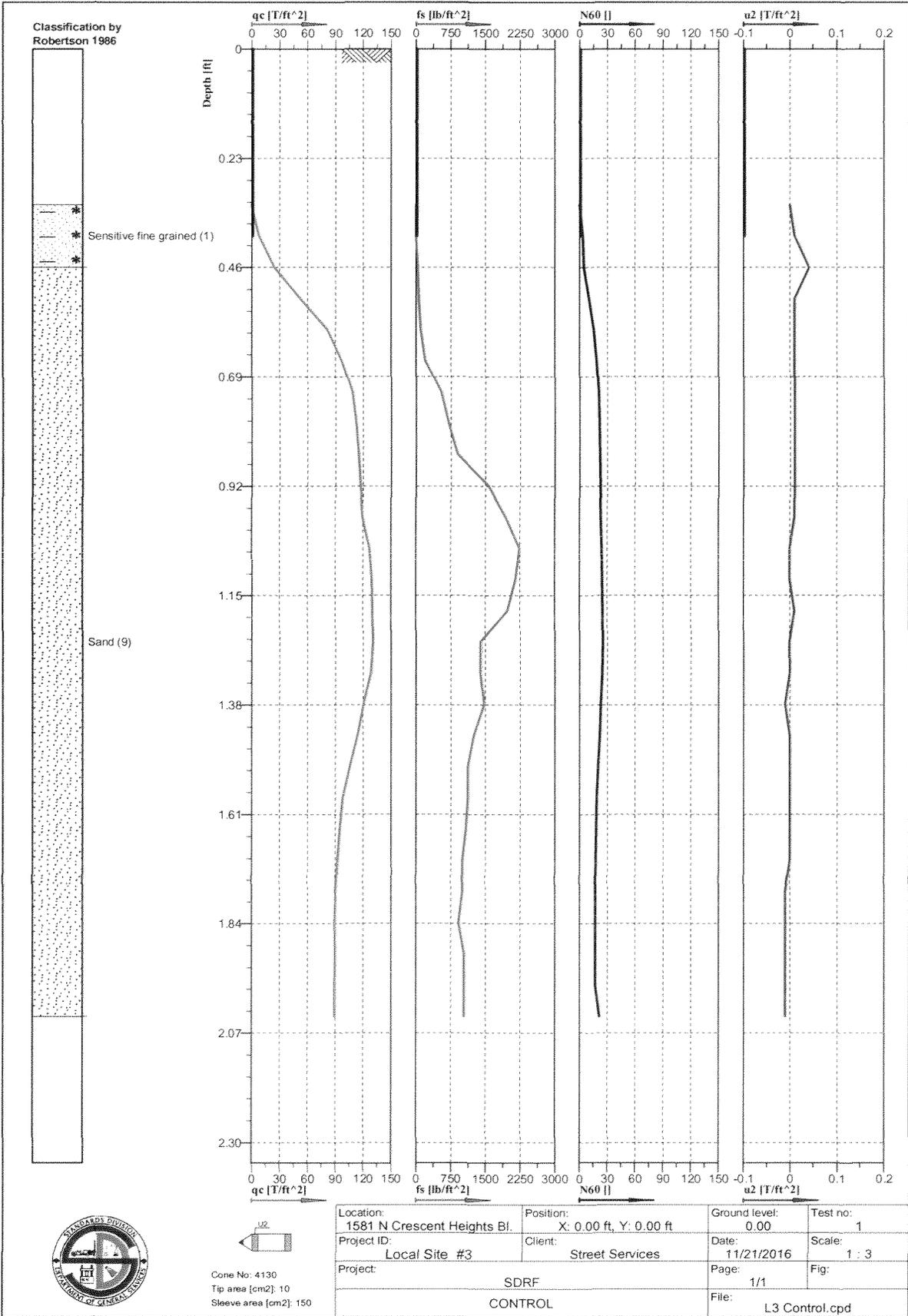
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

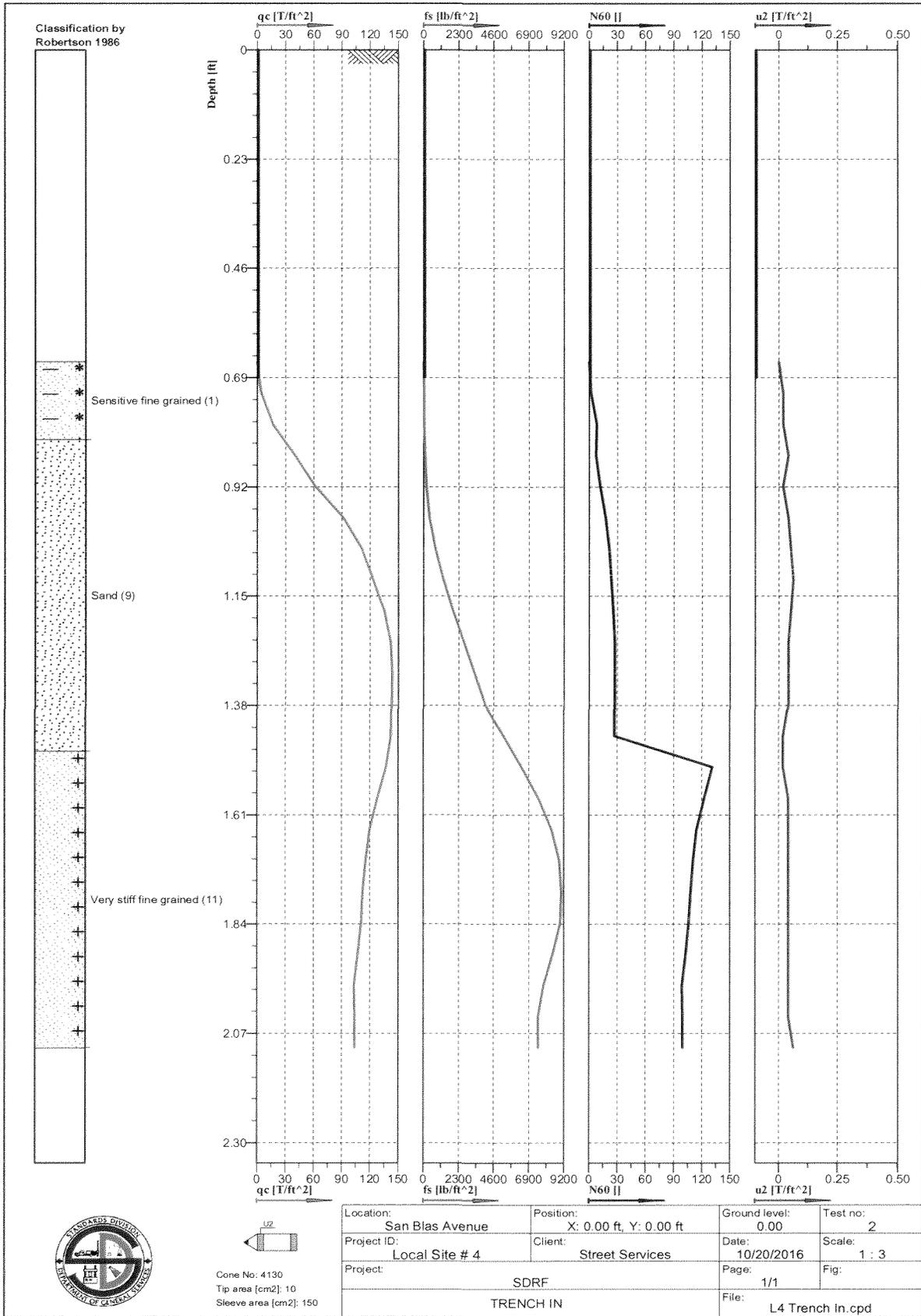
Location: 1581 N Crescent Heights BL.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #3	Client: Street Services	Date: 11/21/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L3 Trench In.cpd	

Lab No.: 17-741-038

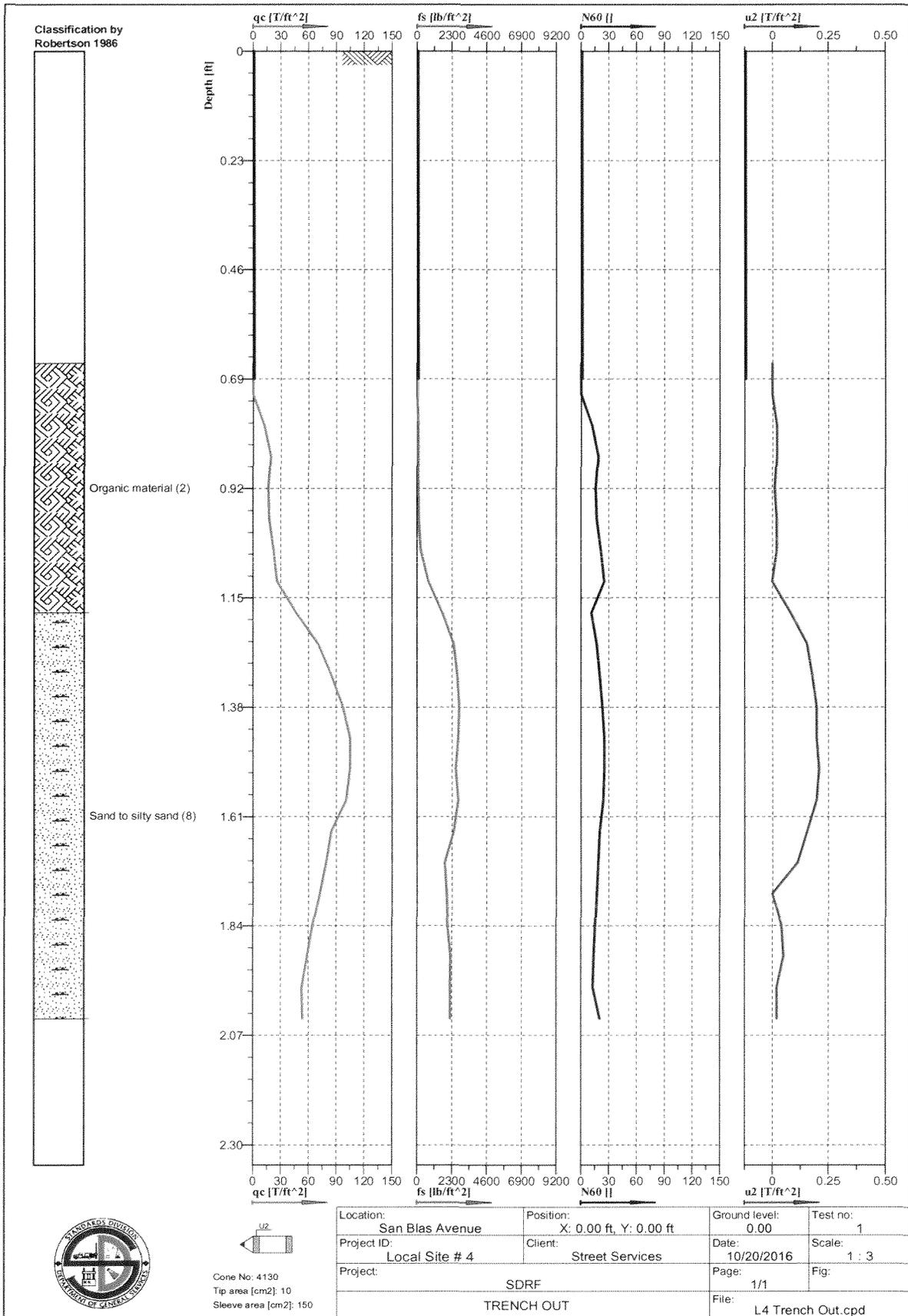


Lab No.: 17-741-039





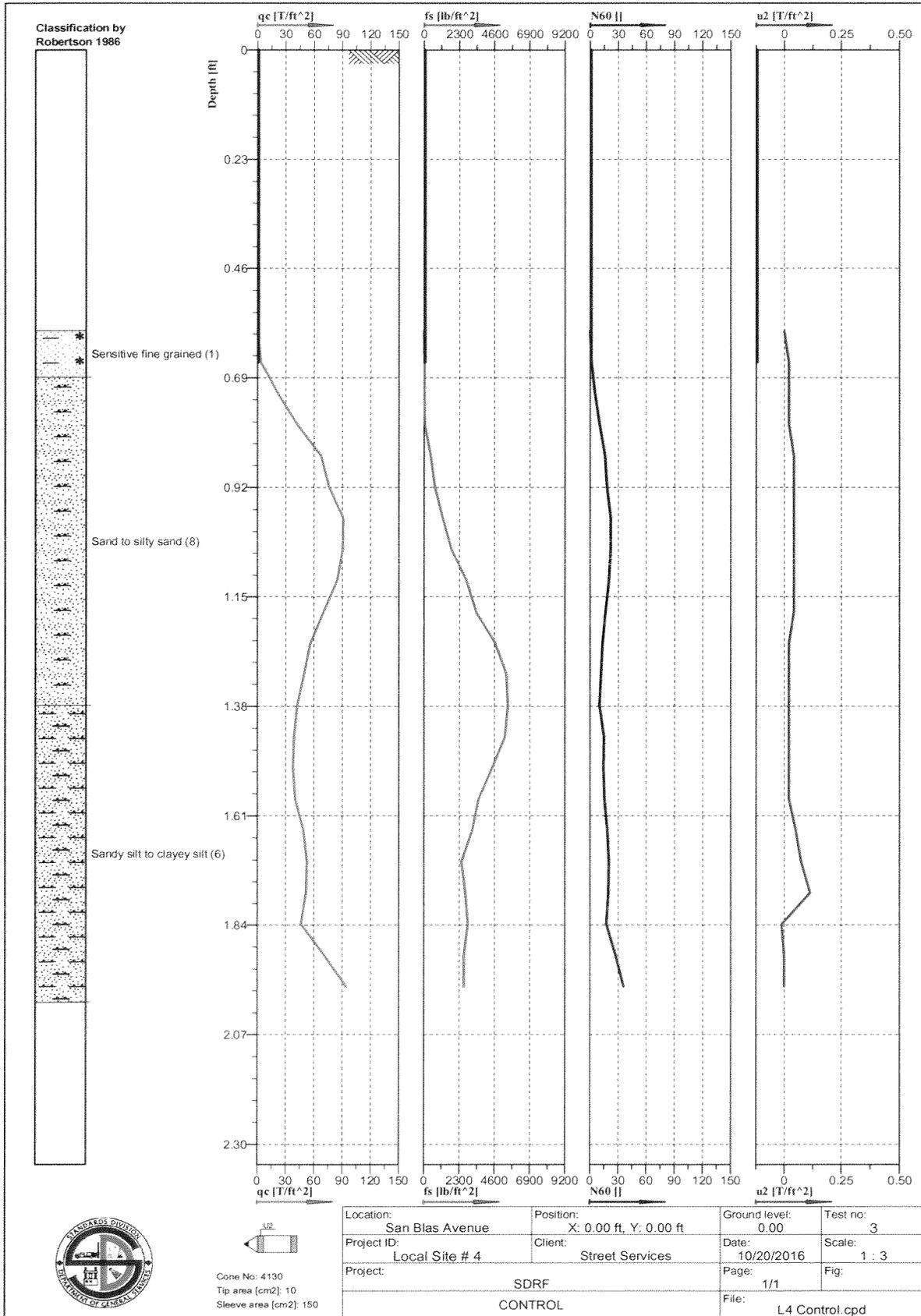
Lab No.: 17-741-041



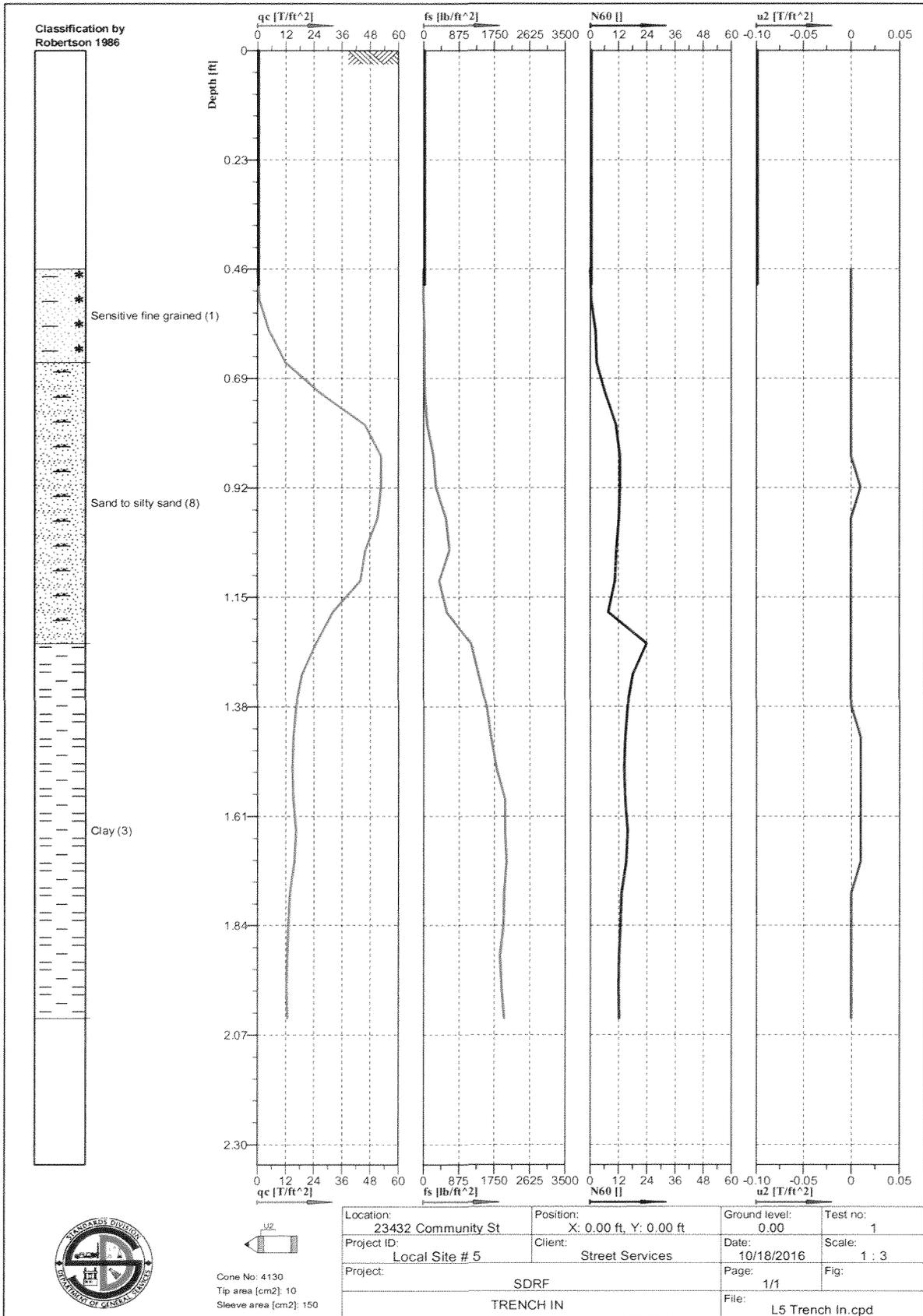
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

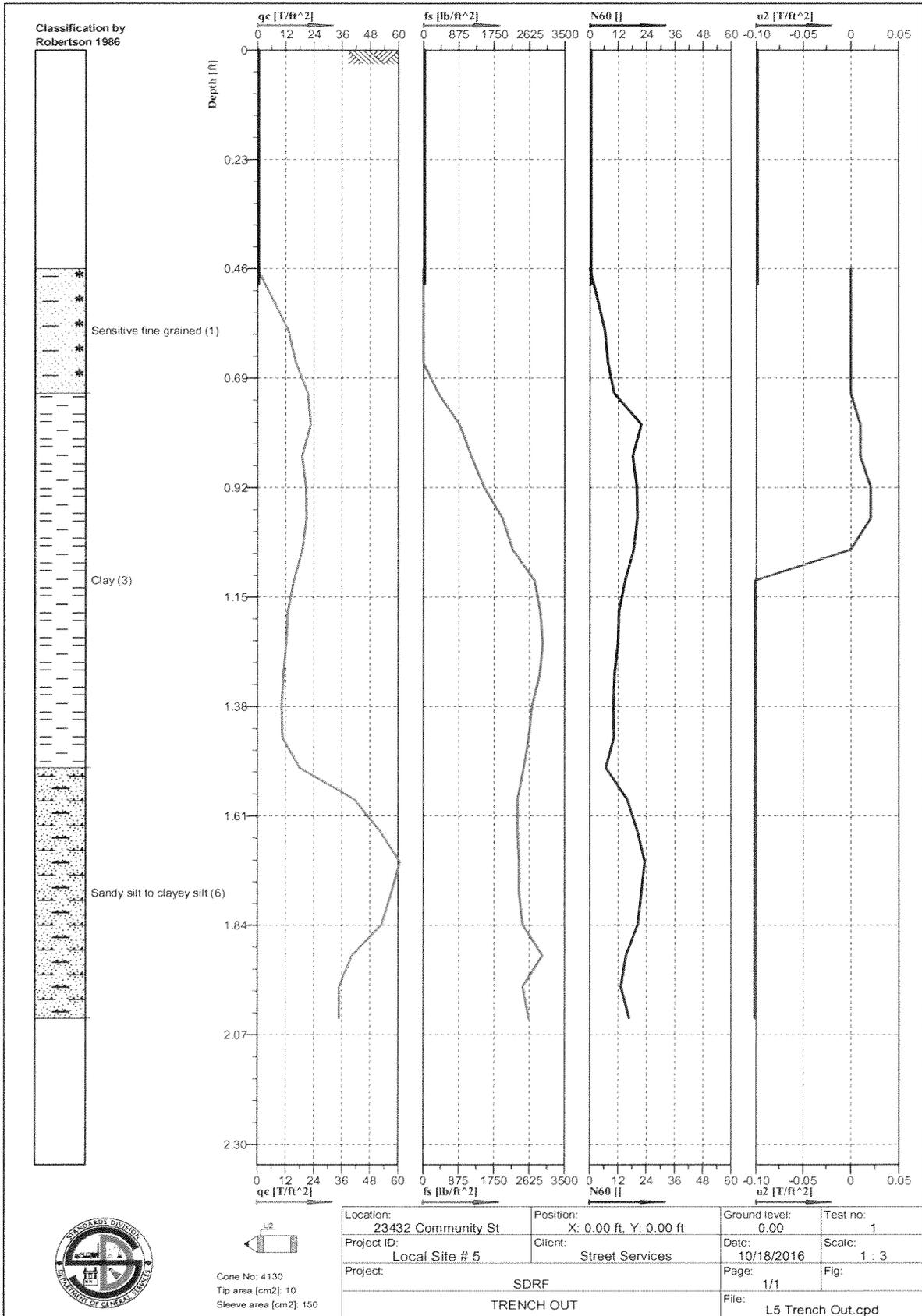
Location: San Blas Avenue	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 4	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: L4 Trench Out.cpd	

Lab No.: 17-741-042

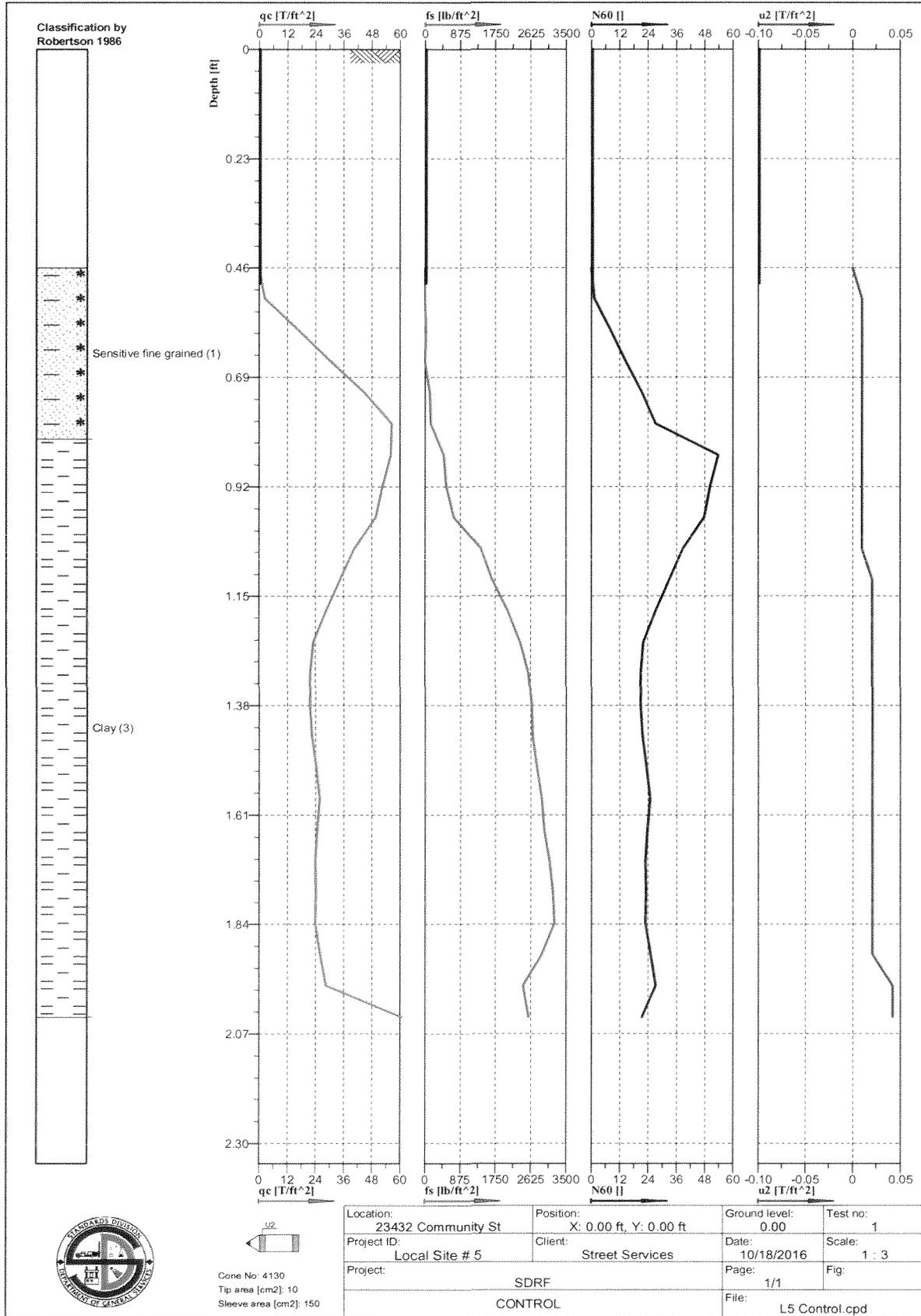


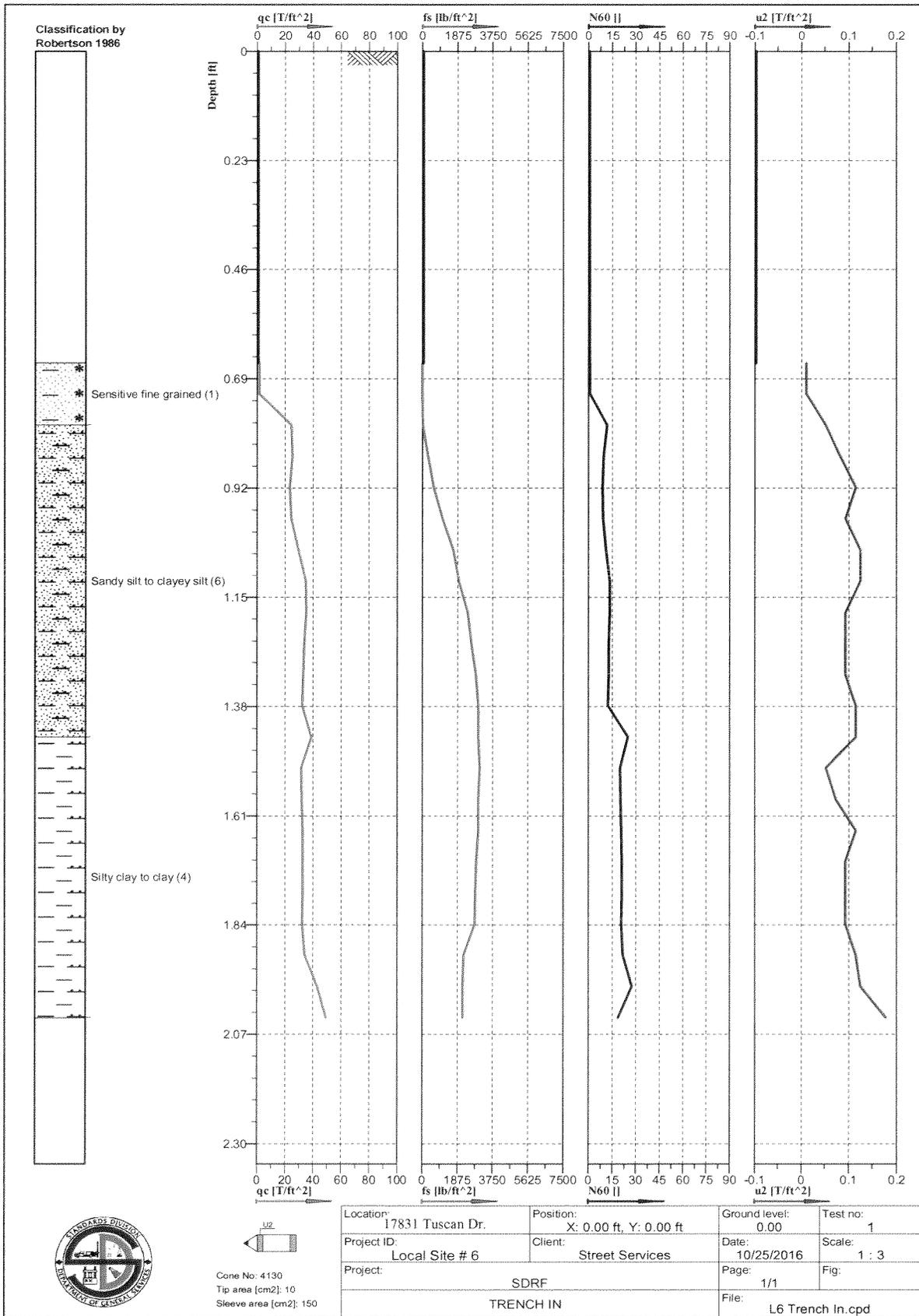
Lab No.: 17-741-043



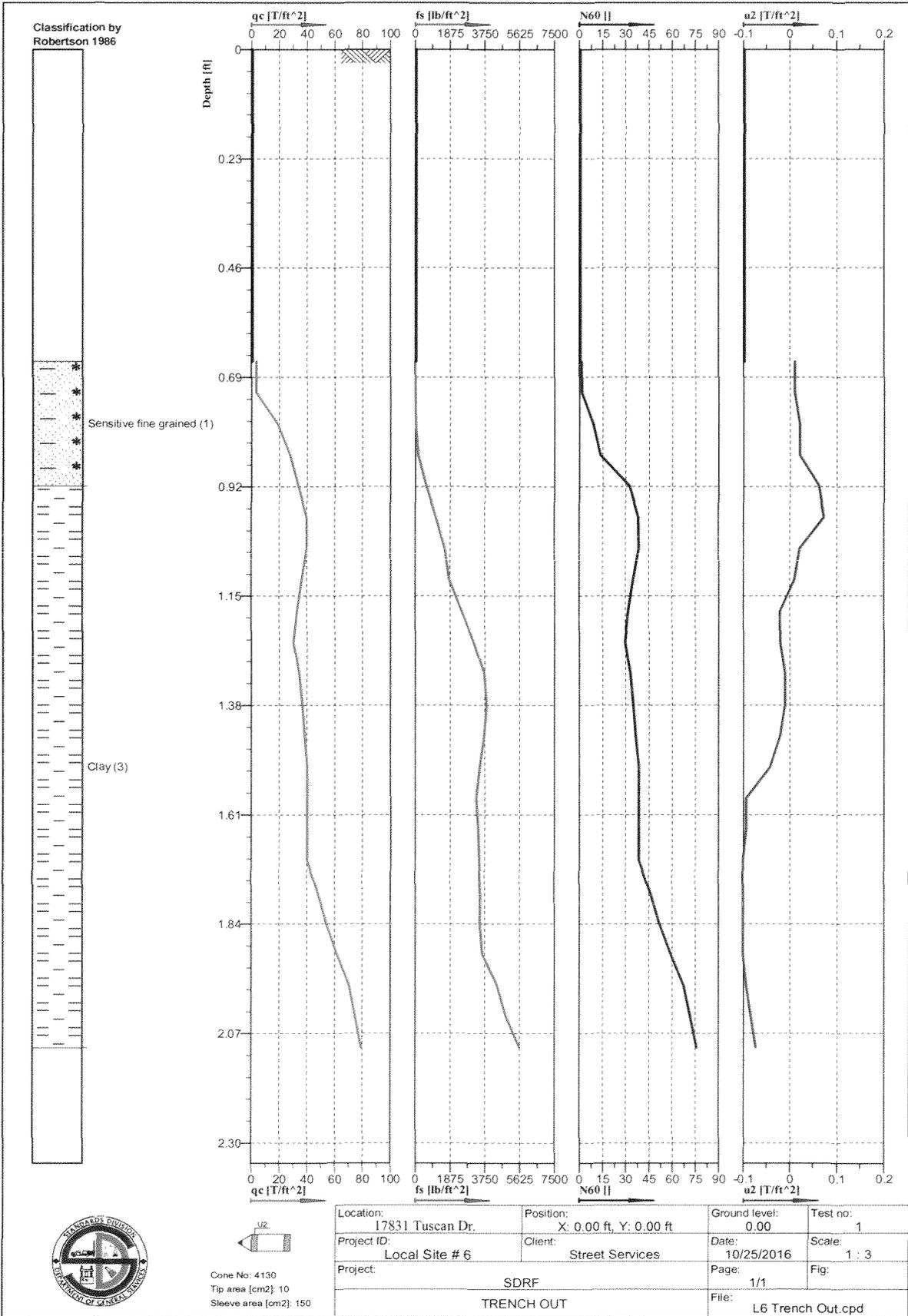


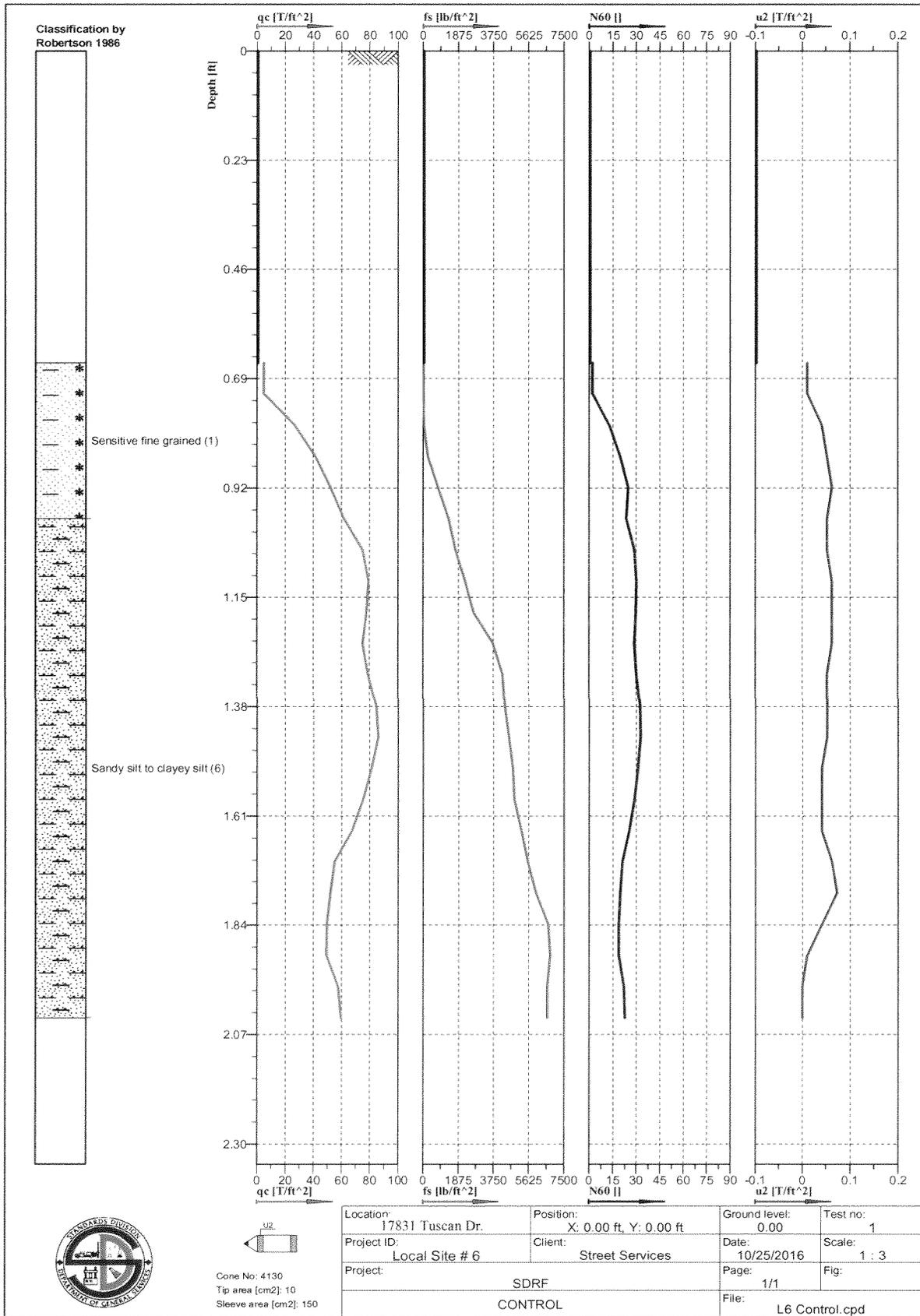
Lab No.: 17-741-045

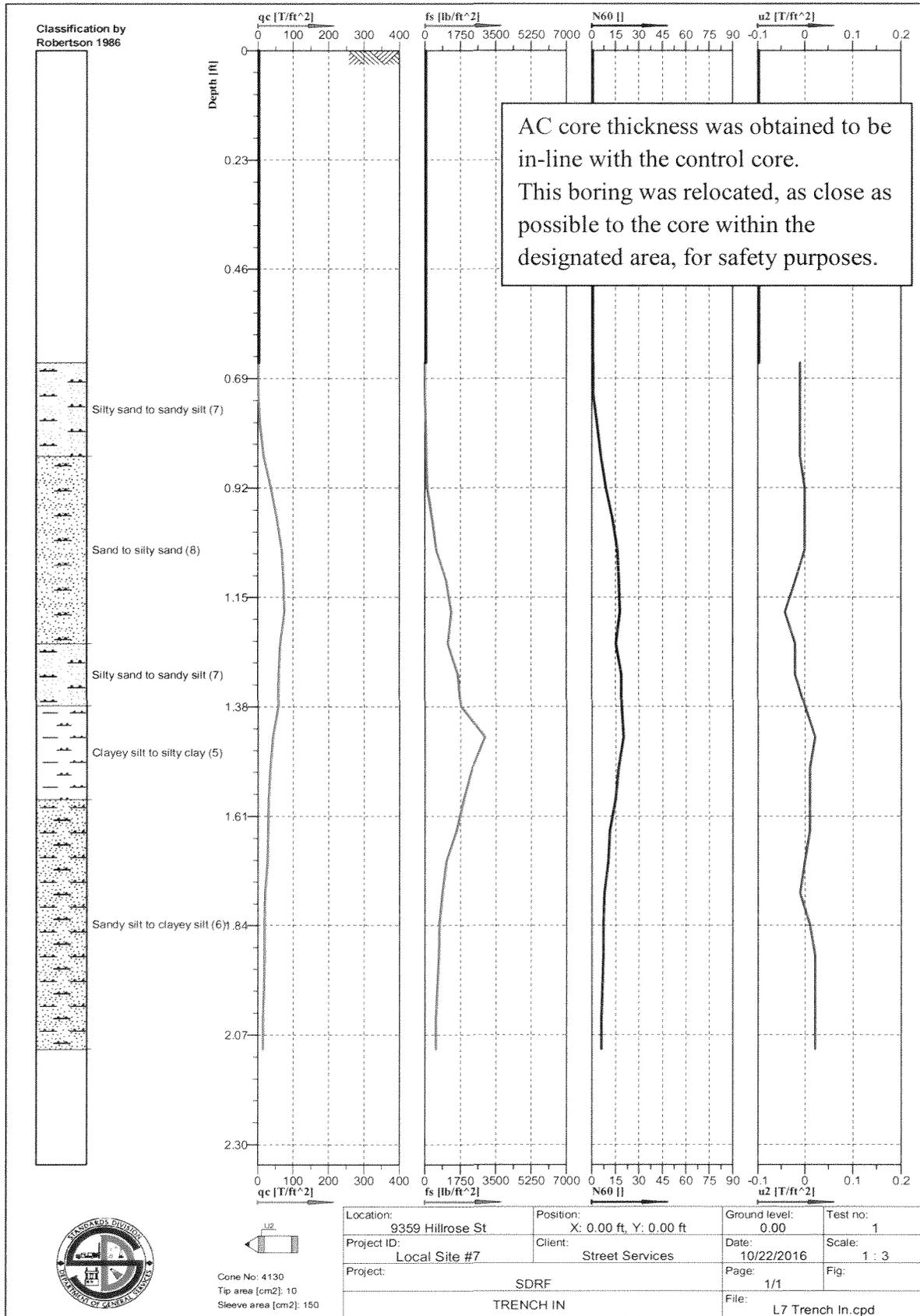




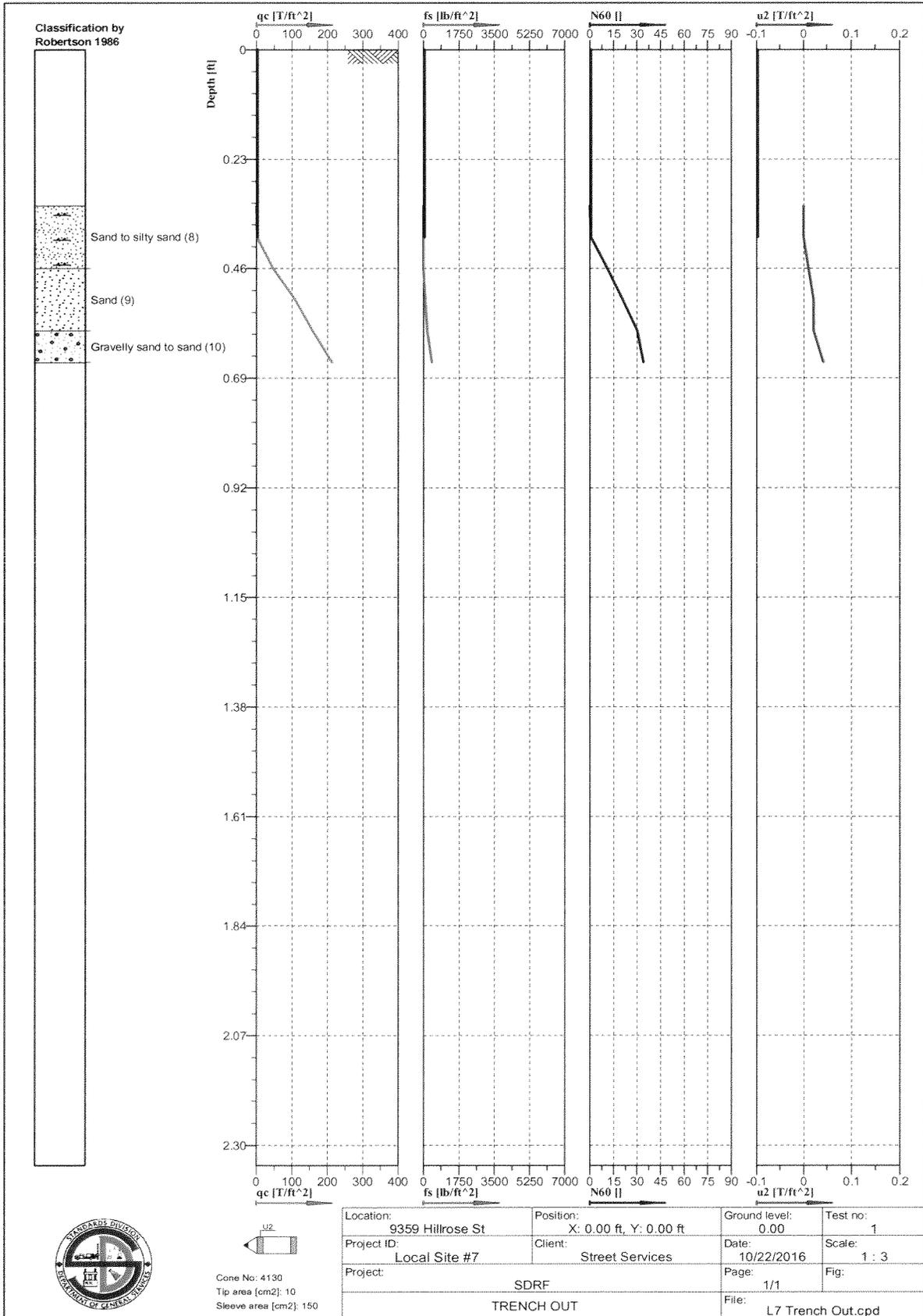
Lab No.: 17-741-047







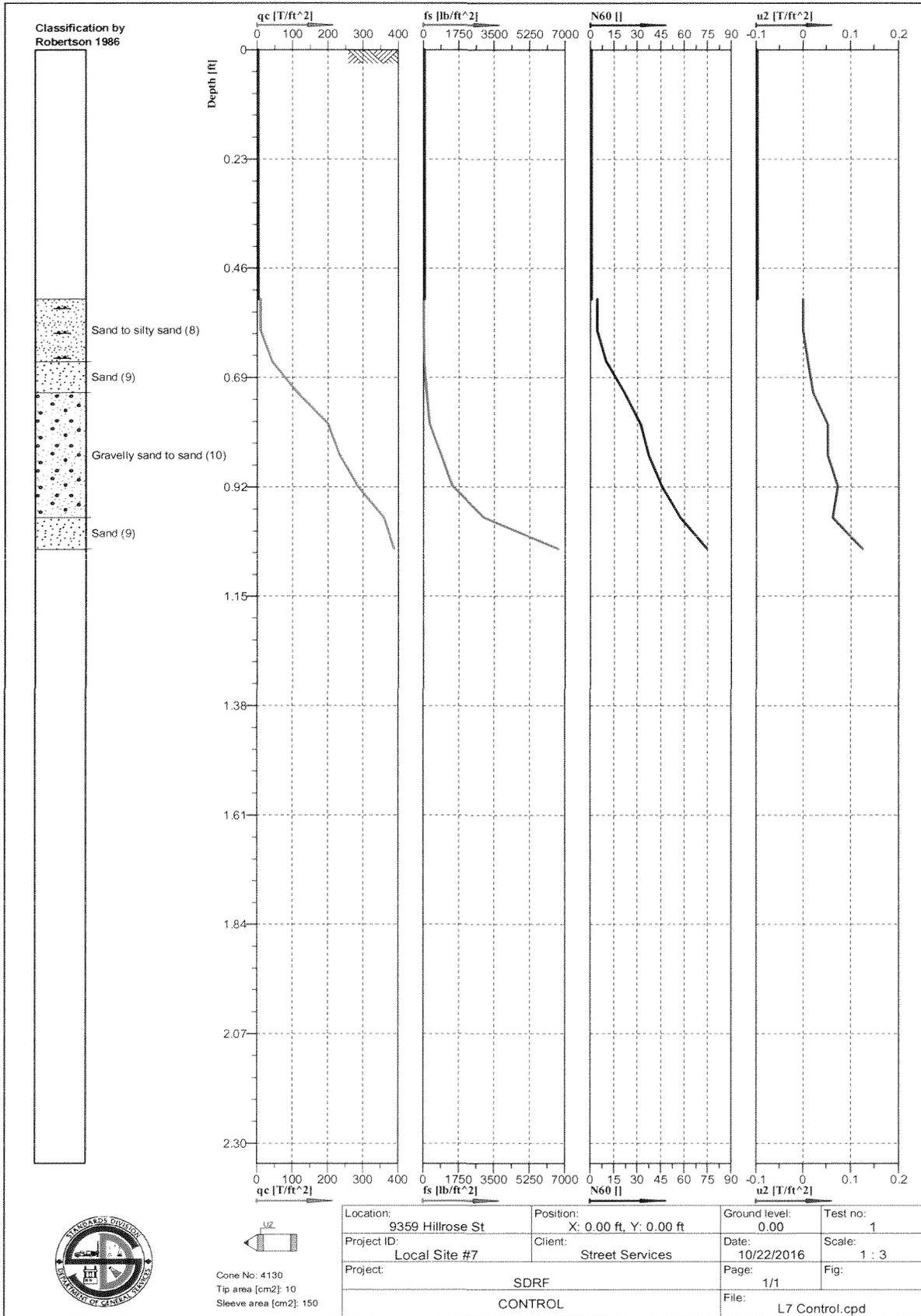
Lab No.: 17-741-050



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

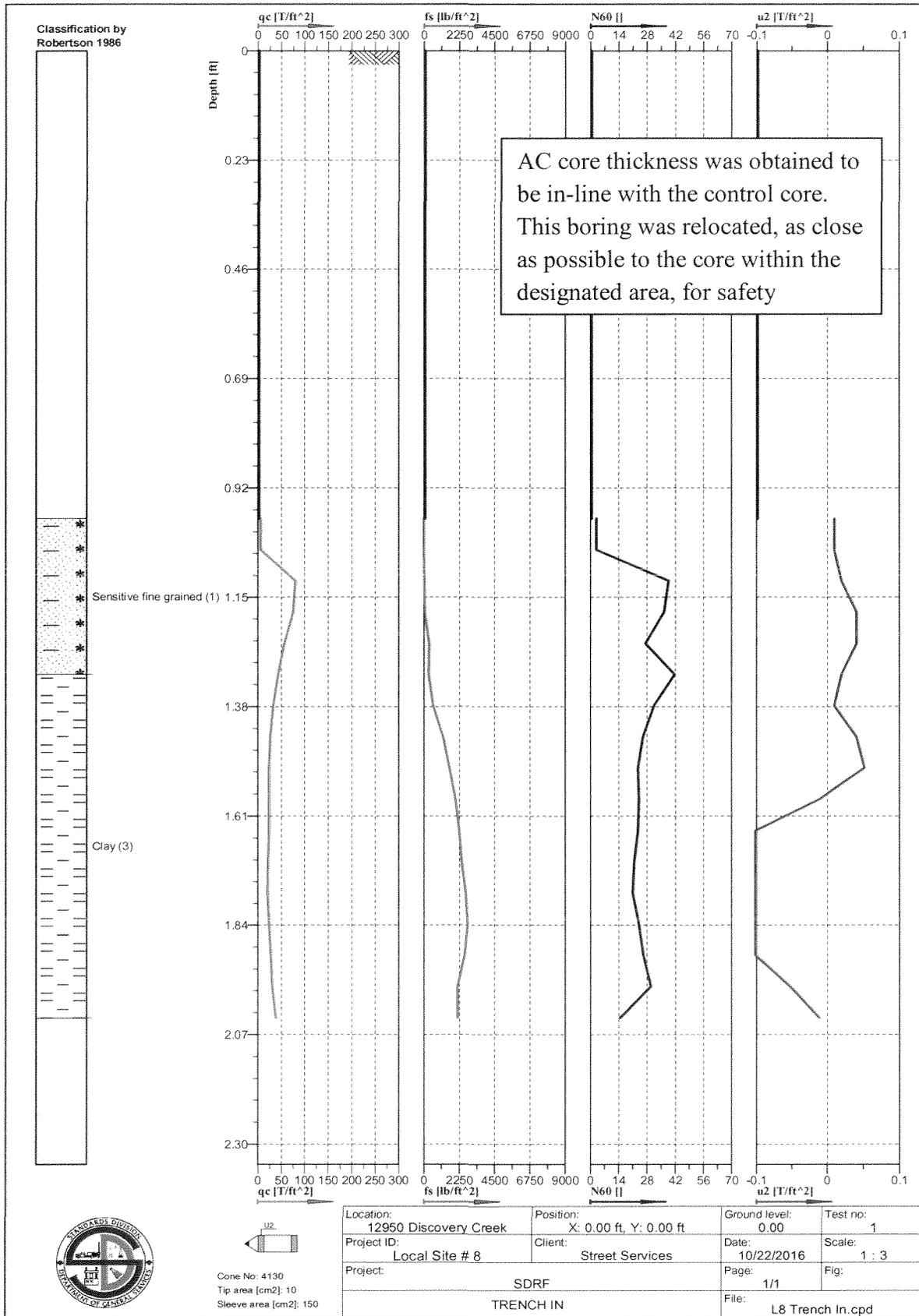
Location: 9359 Hillrose St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #7	Client: Street Services	Date: 10/22/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: L7 Trench Out.cpd	

Lab No.: 17-741-051

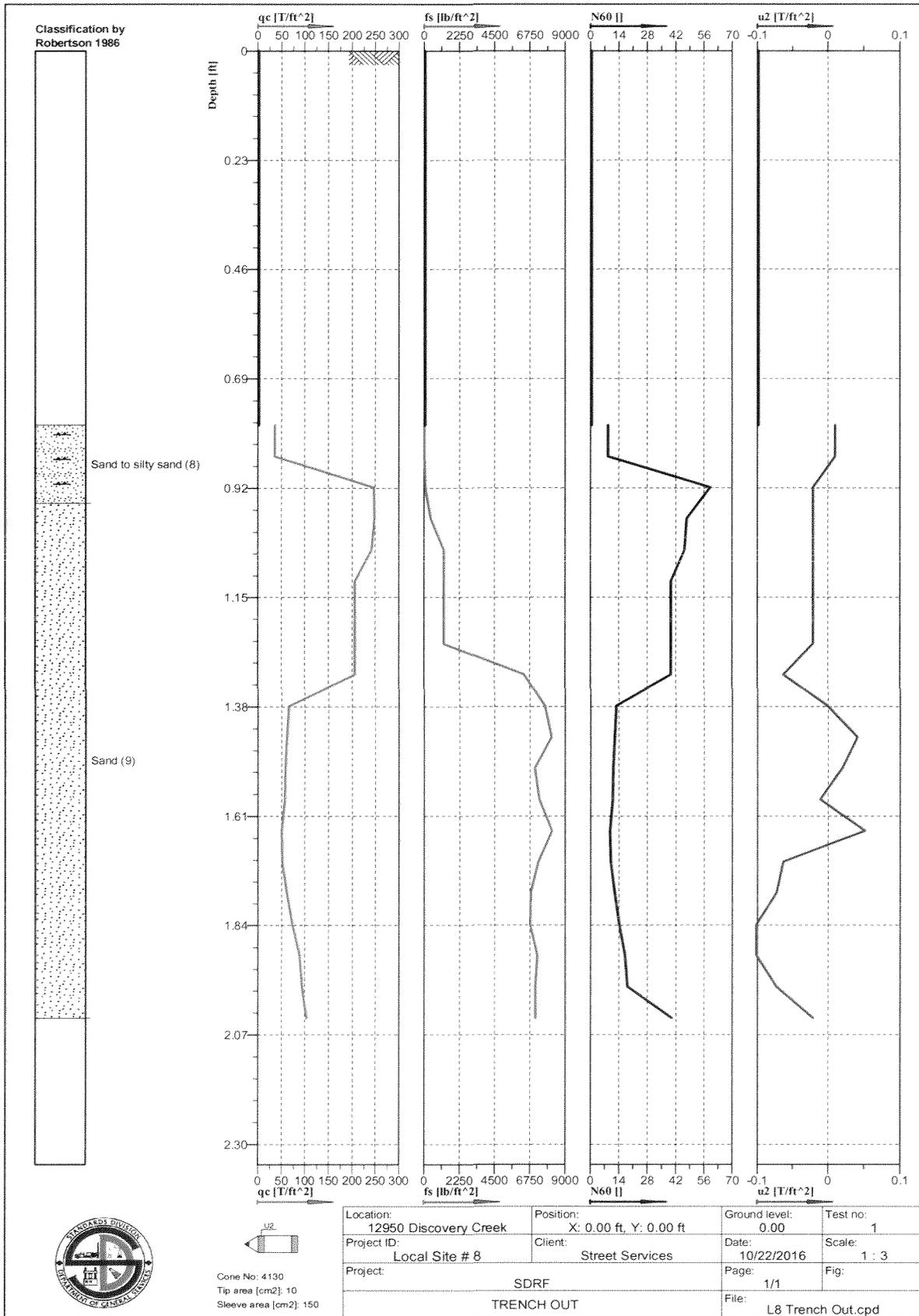


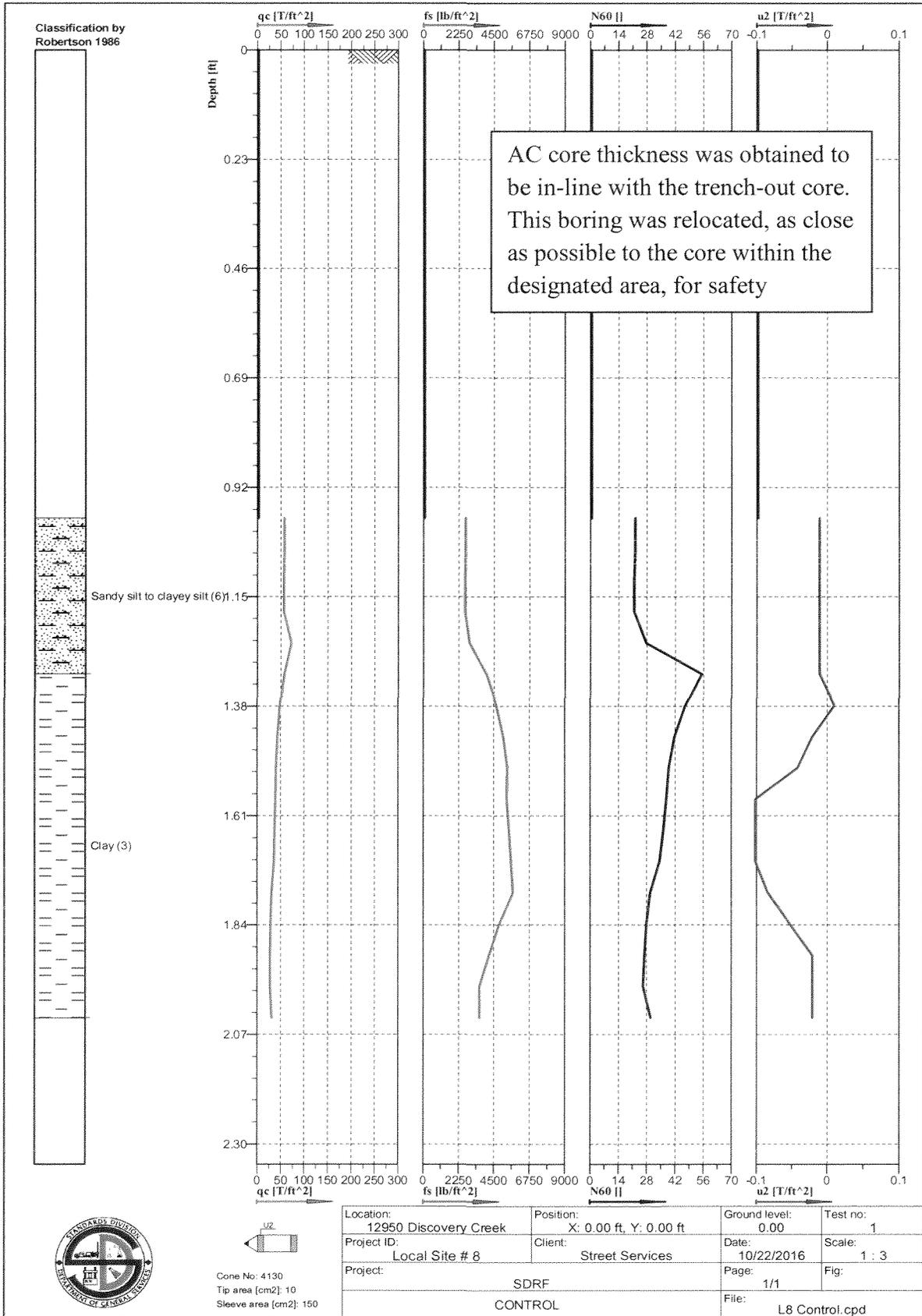
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 9359 Hillrose St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #7	Client: Street Services	Date: 10/22/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L7 Control.cpd	

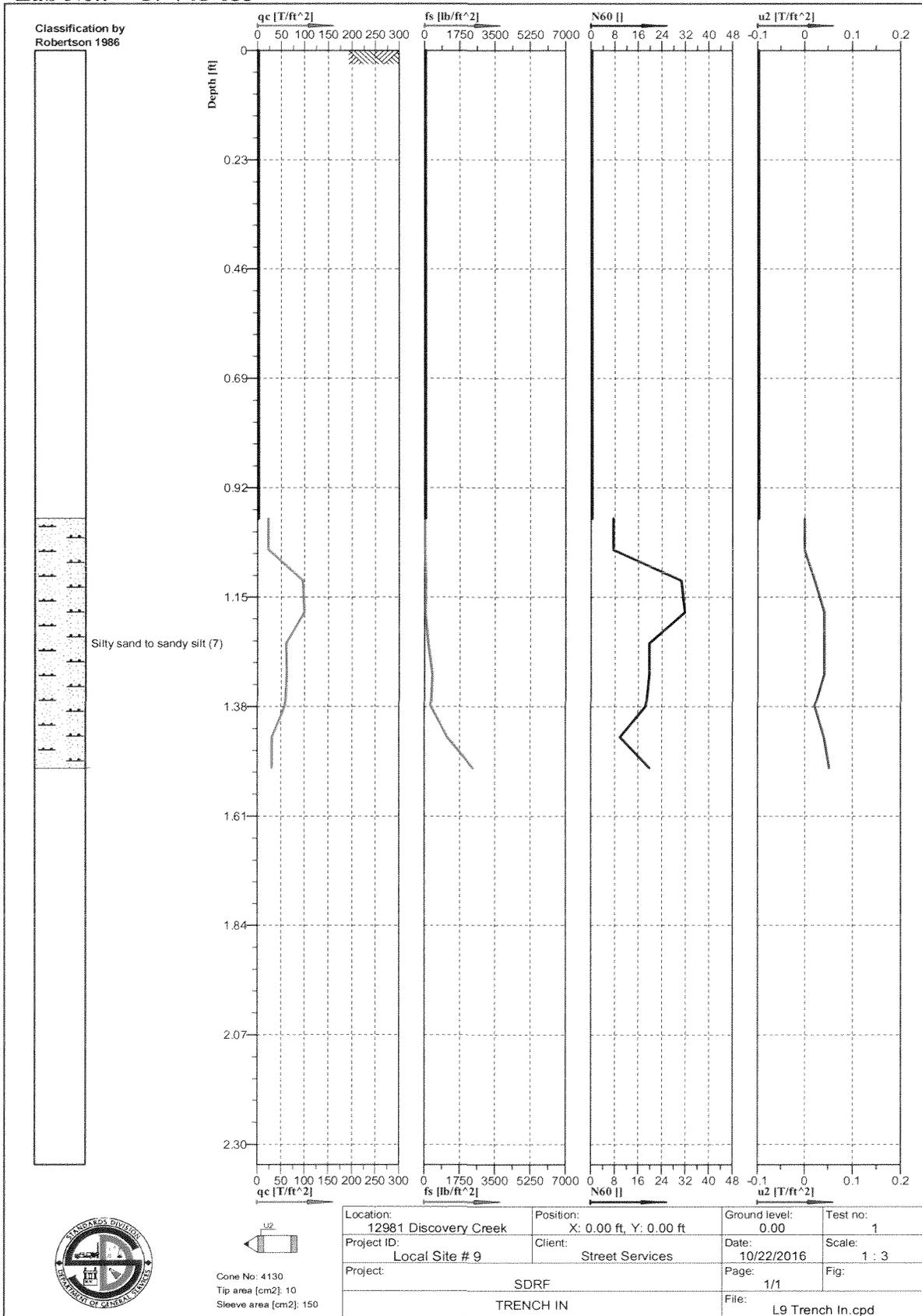


Lab No.: 17-741-053

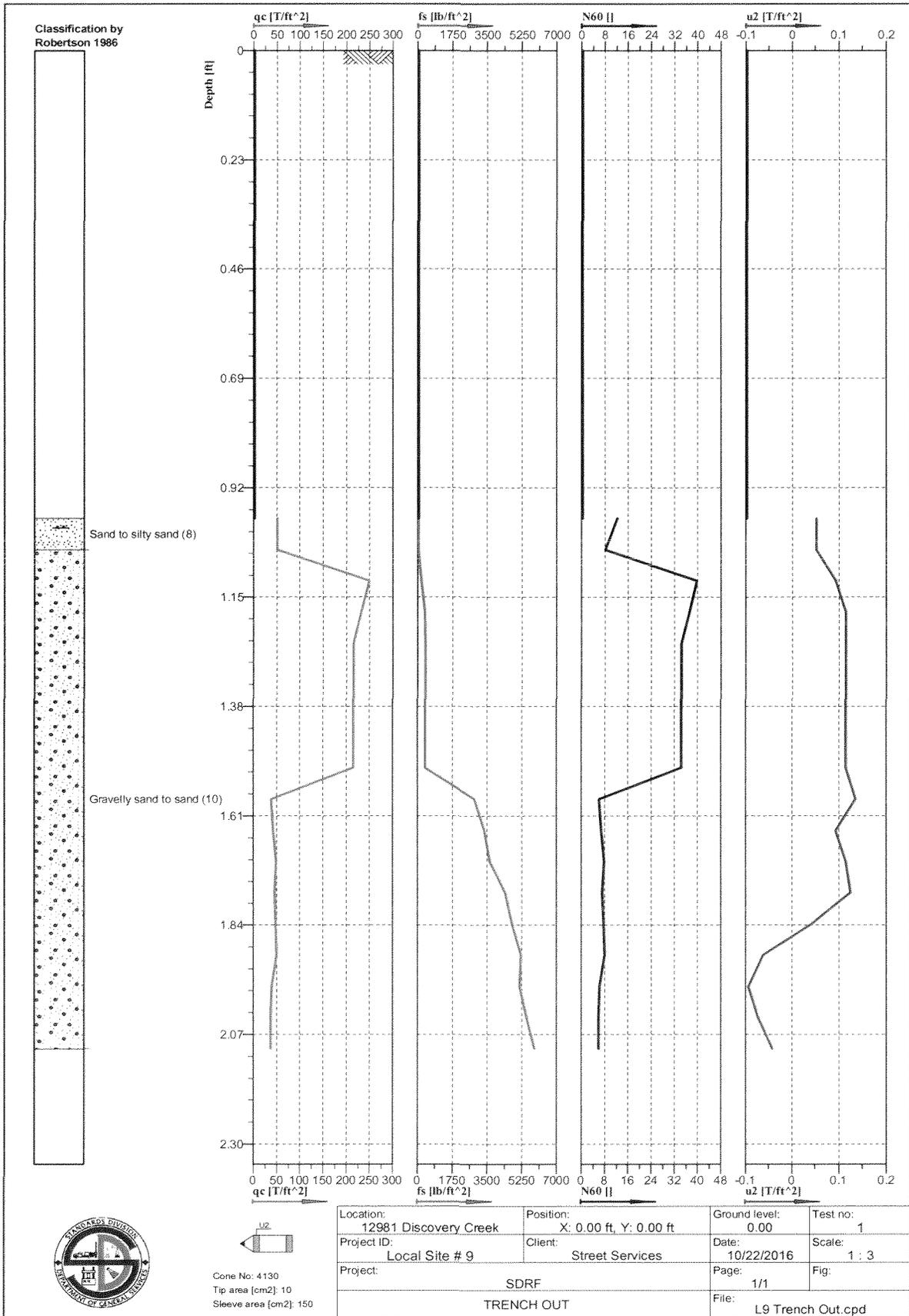




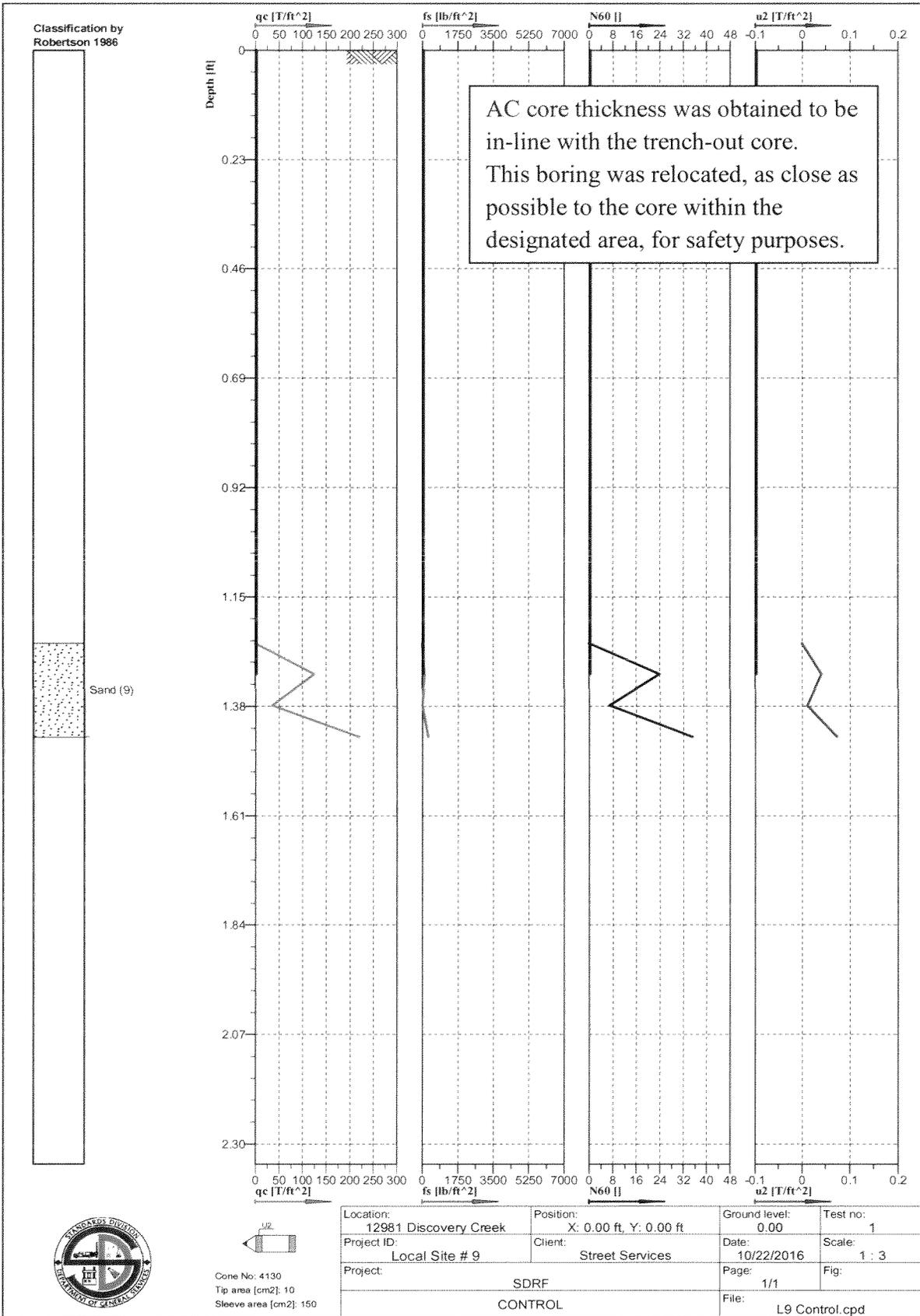
Lab No.: 17-741-055



Lab No.: 17-741-056



Lab No.: 17-741-057



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

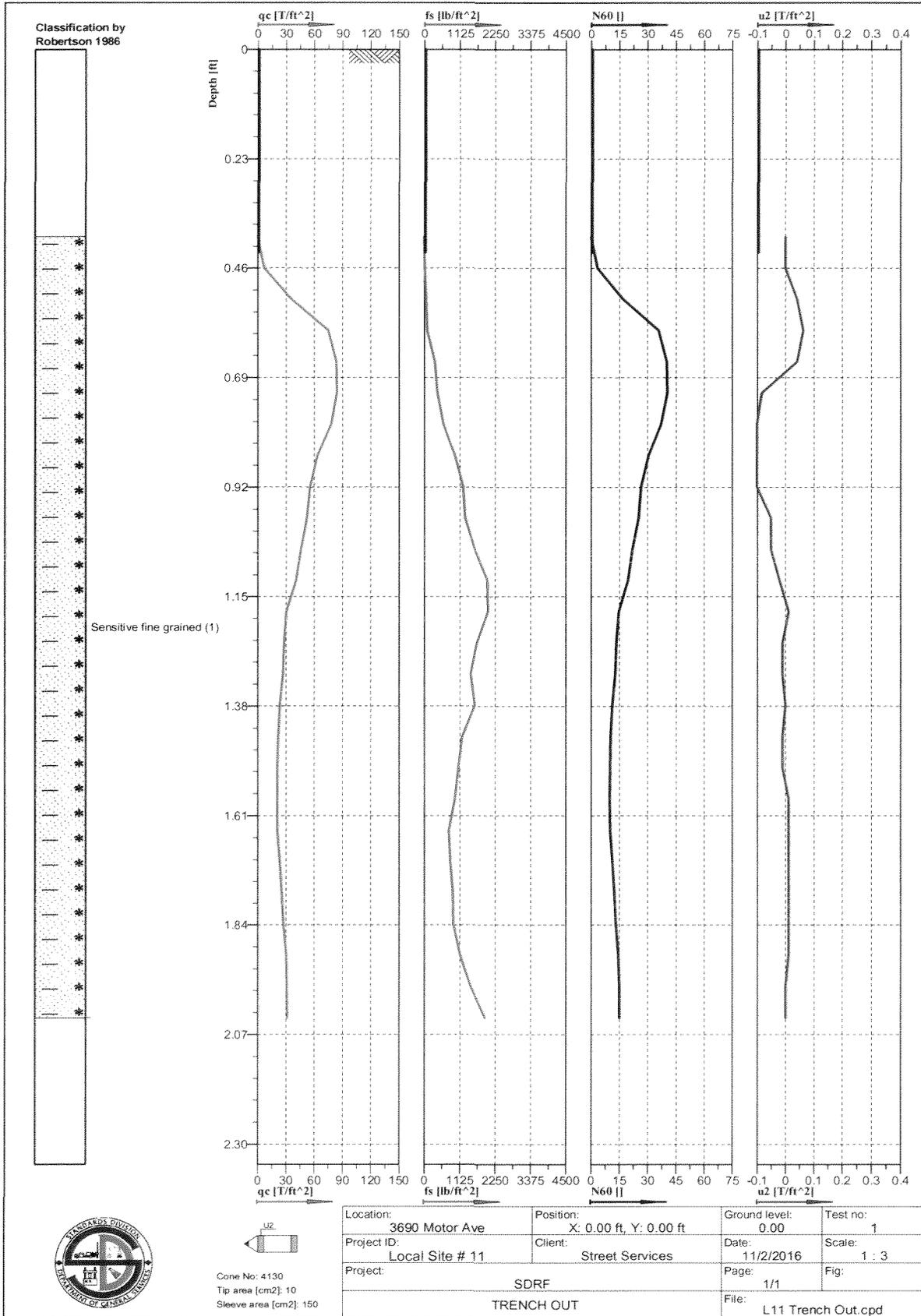
Asphalt thickness = 4.5”.

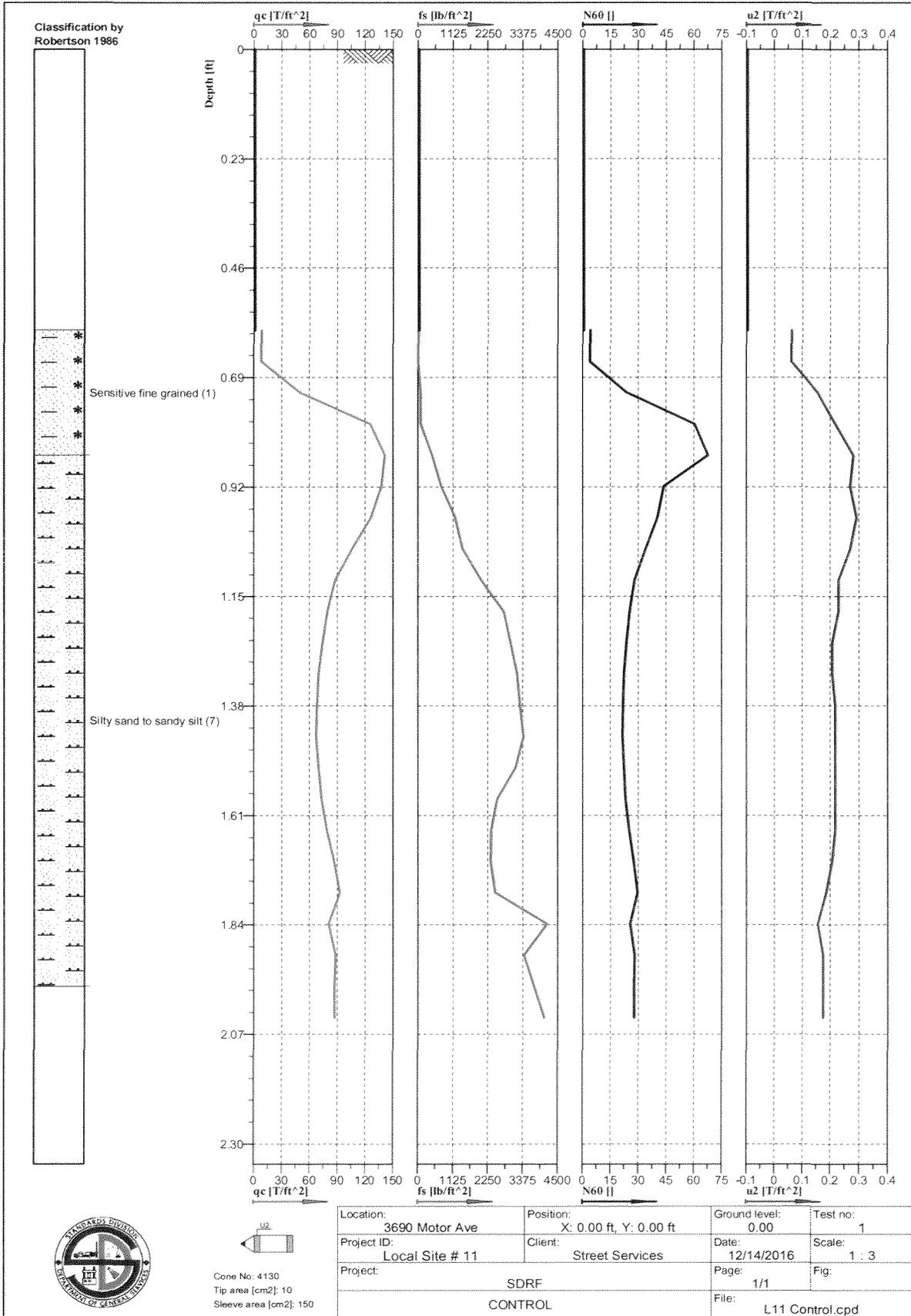


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3690 Motor Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 11	Client: Street Services	Date: 11/2/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L11 Trench In.cpd	

Lab No.: 17-741-059





Lab No.: 17-741-061

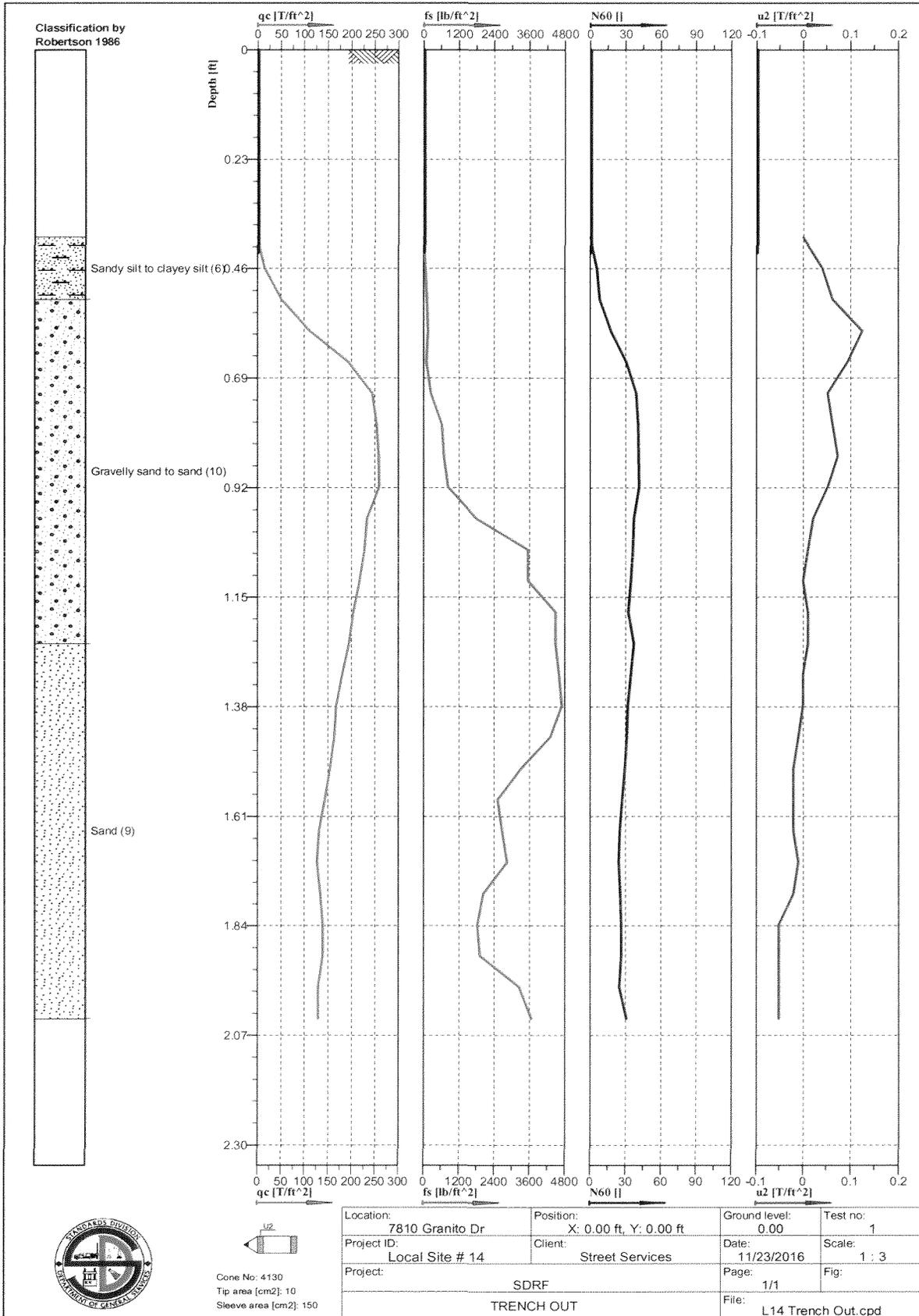
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 6.8”.



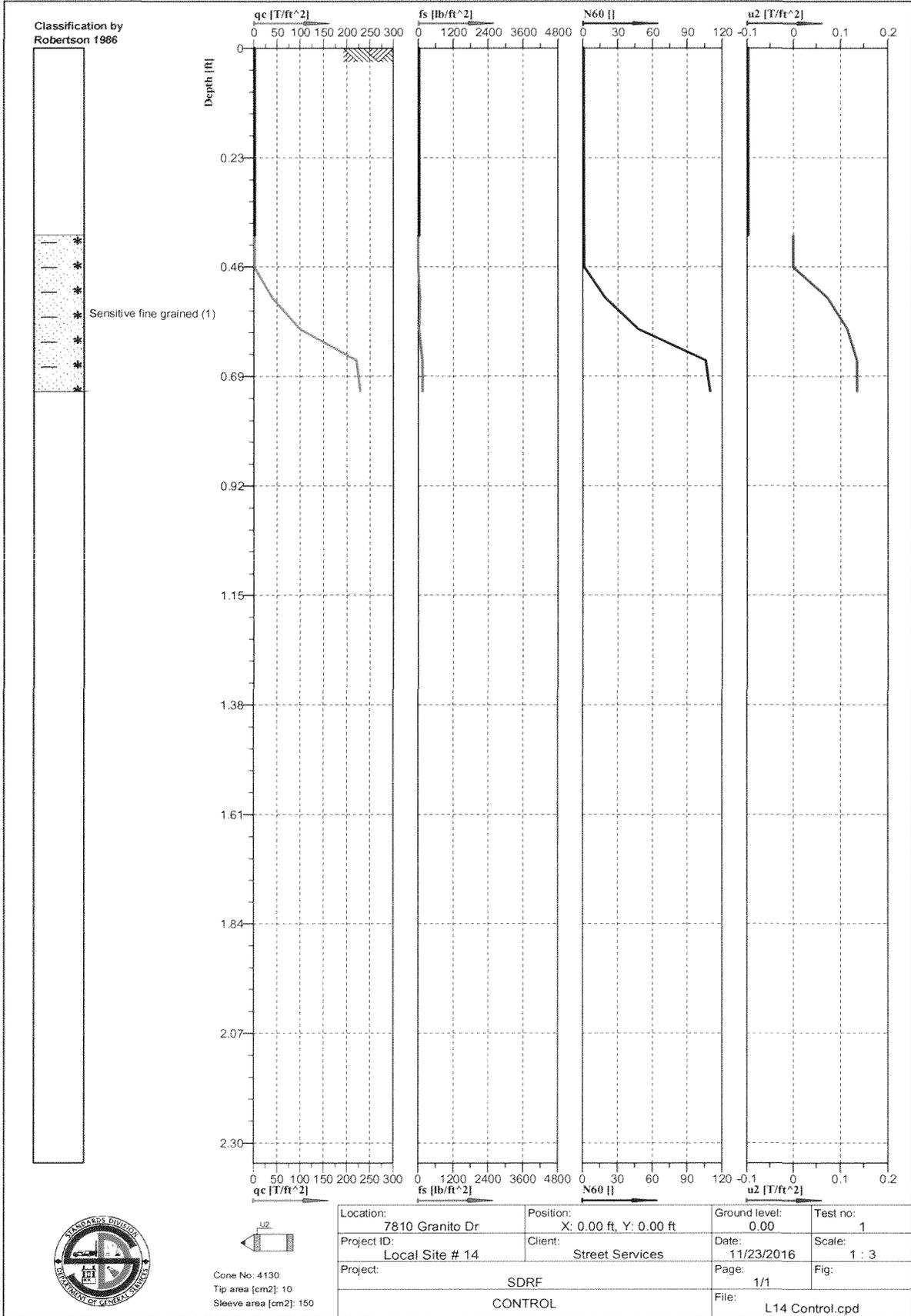
Cone No: 4130
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: 7810 Granito Dr	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 14	Client: Street Services	Date: 11/23/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L14 Trench In.cpd	



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-063



Trench backfill consists of cemented sand. No CPTU performed in this trench.

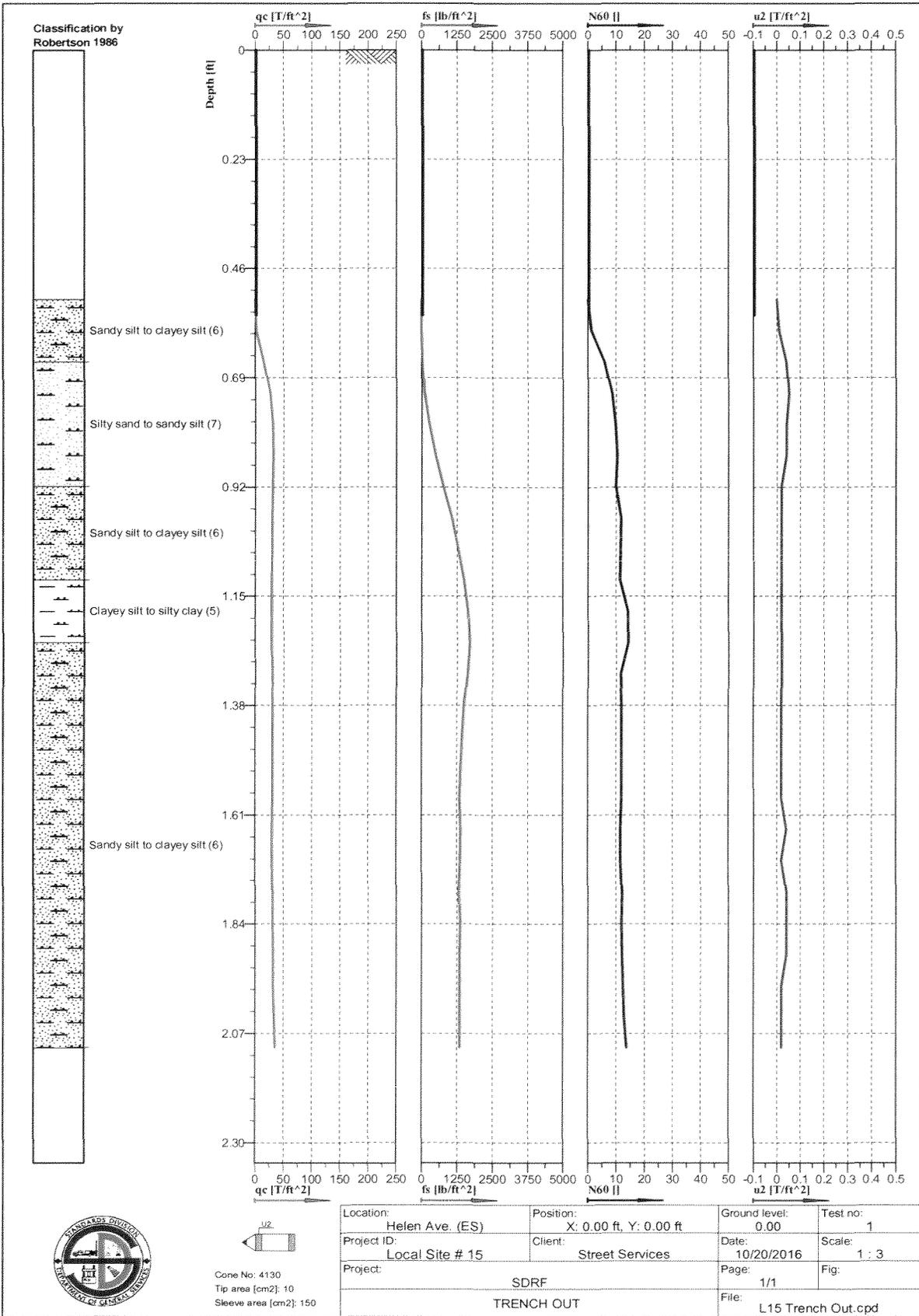
Asphalt thickness = 5.4”.



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Helen Ave. (ES)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 15	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L15 Trench In.cpd	

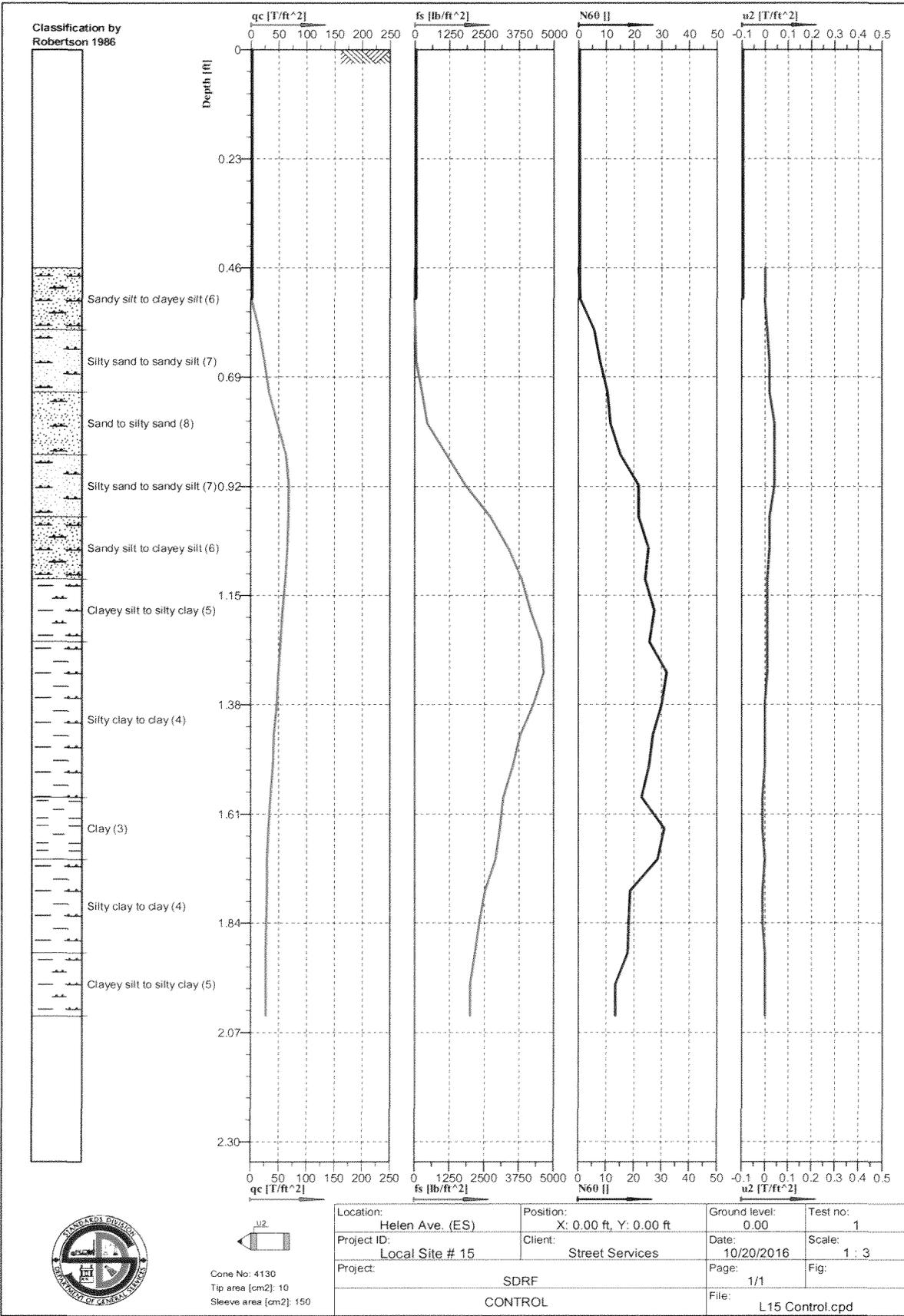
Lab No.: 17-741-065



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Helen Ave. (ES)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 15	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: L15 Trench Out.cpd	

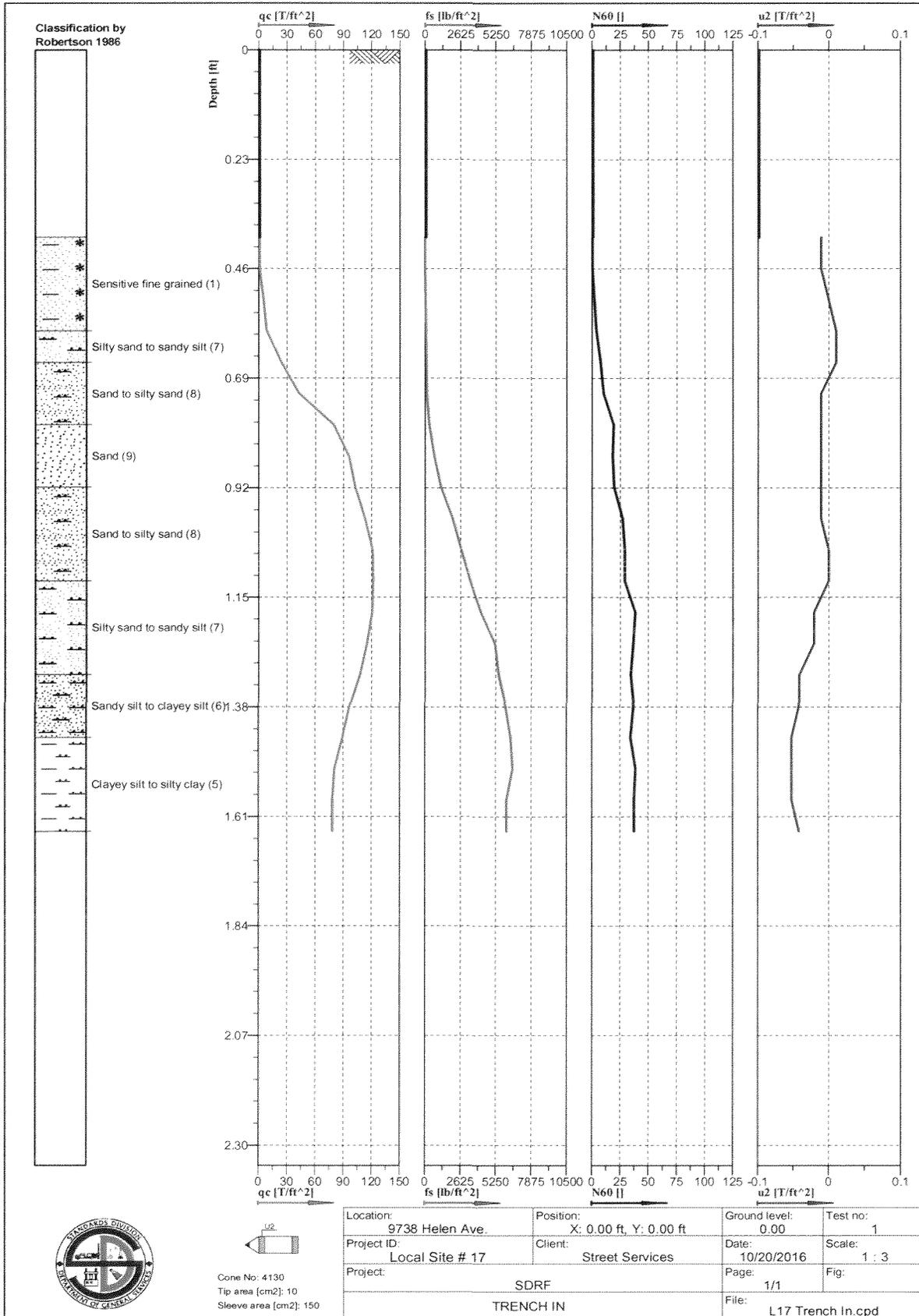
Lab No.: 17-741-066



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Helen Ave. (ES)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 15	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: L15 Control.cpd	

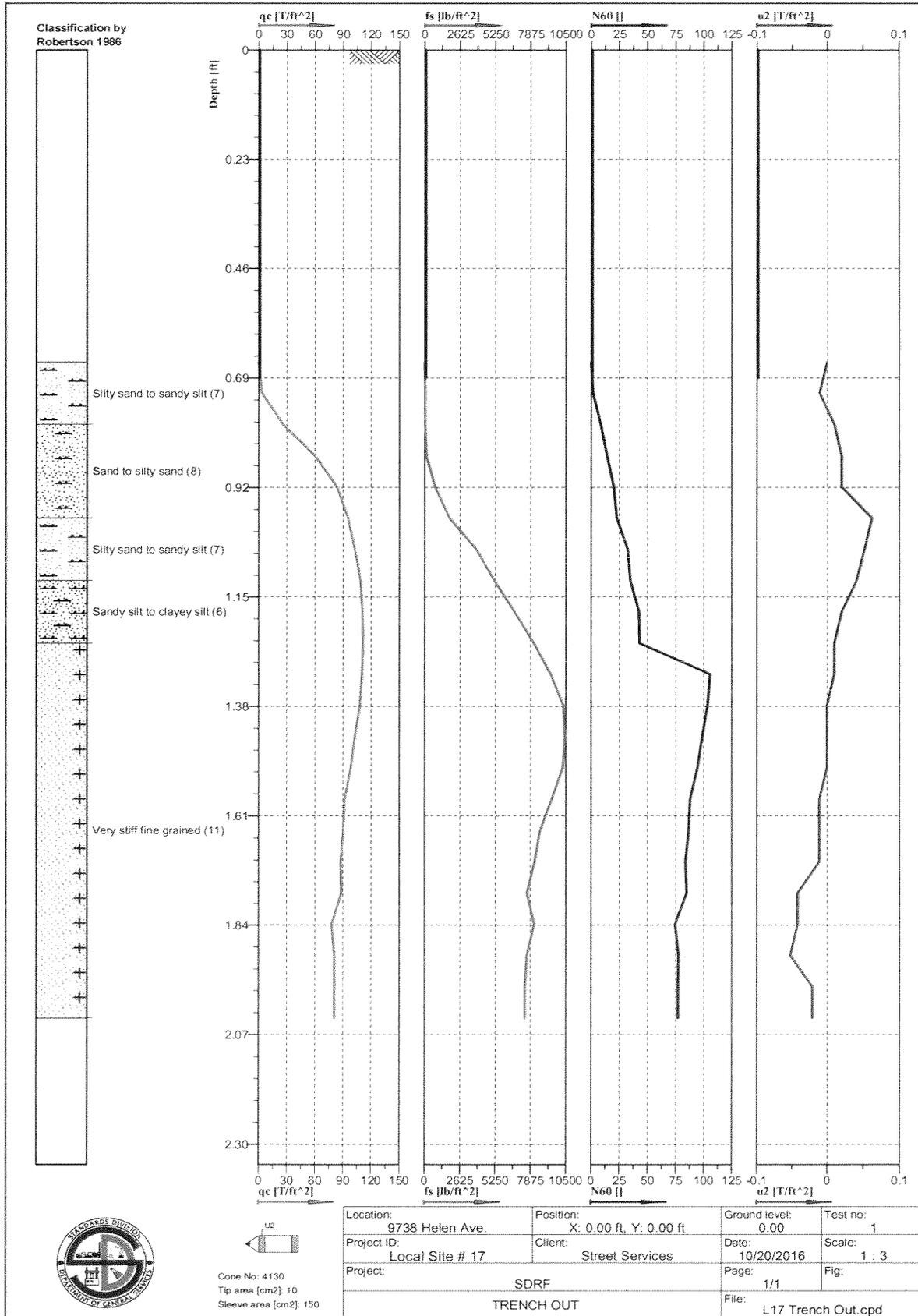
Lab No.: 17-741-067



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

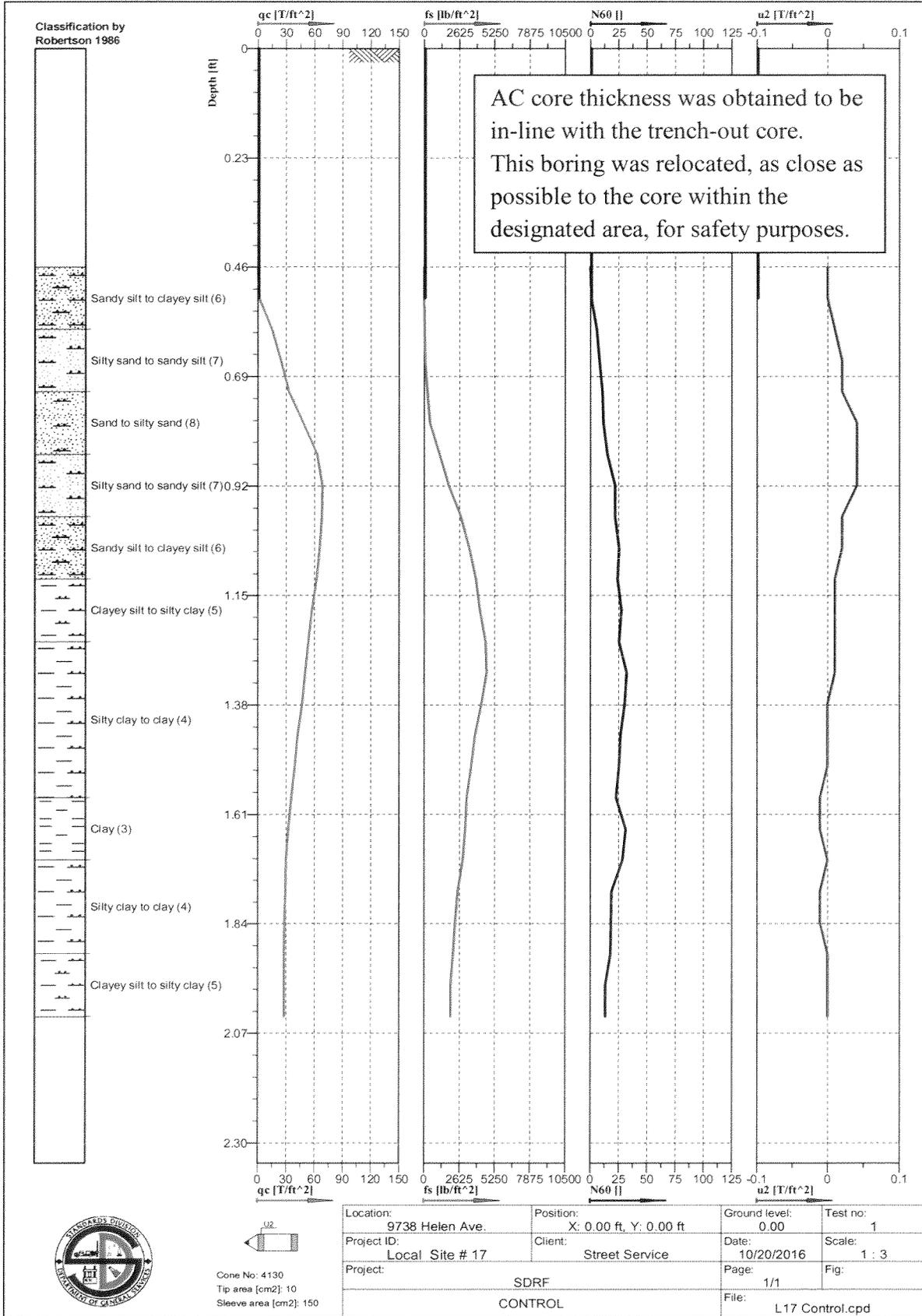
Location: 9738 Helen Ave.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 17	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF TRENCH IN		Page: 1/1	Fig: 1
		File: L17 Trench In.cpd	

Lab No.: 17-741-068

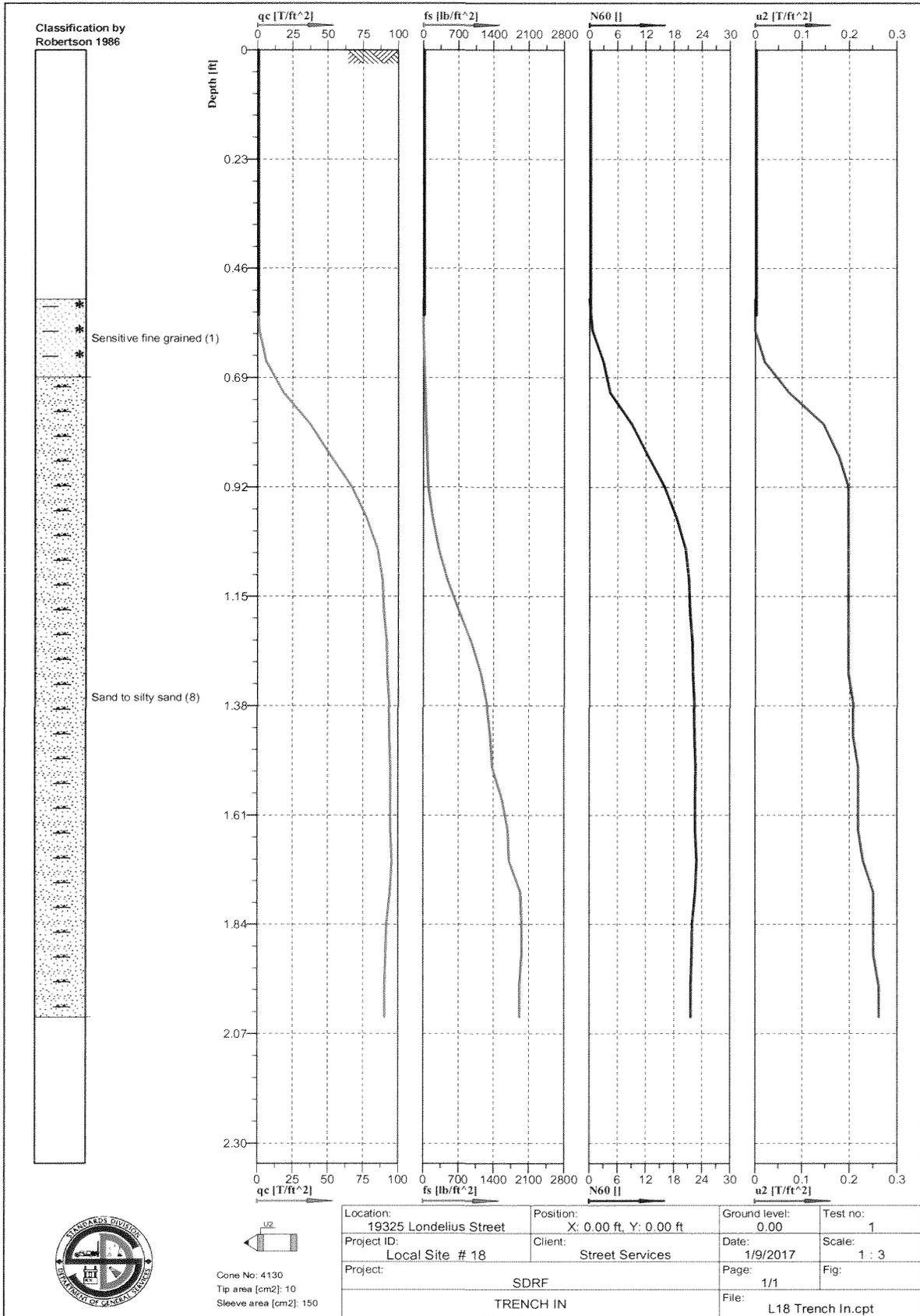


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

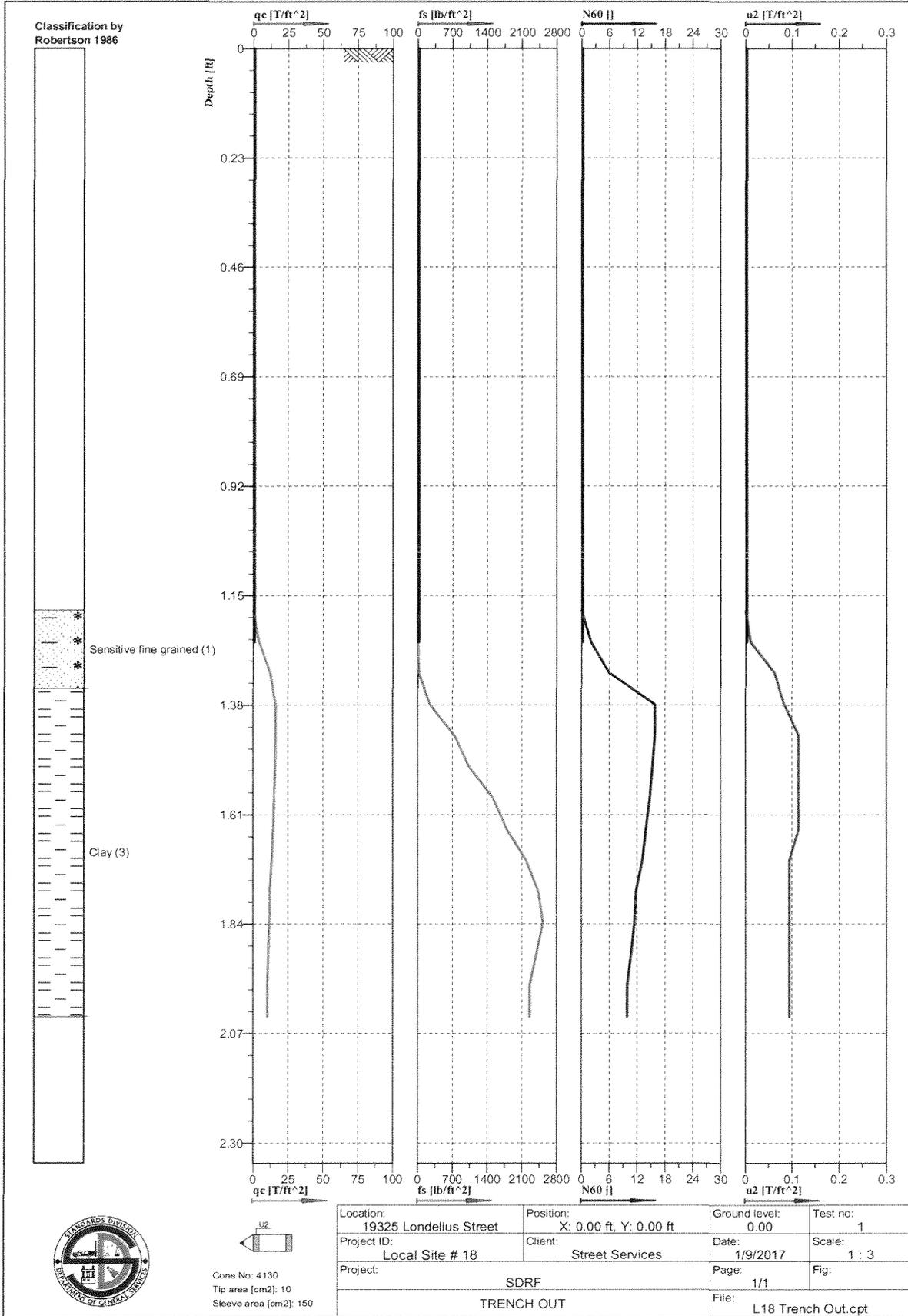
Location: 9738 Helen Ave.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 17	Client: Street Services	Date: 10/20/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: L17 Trench Out.cpd	



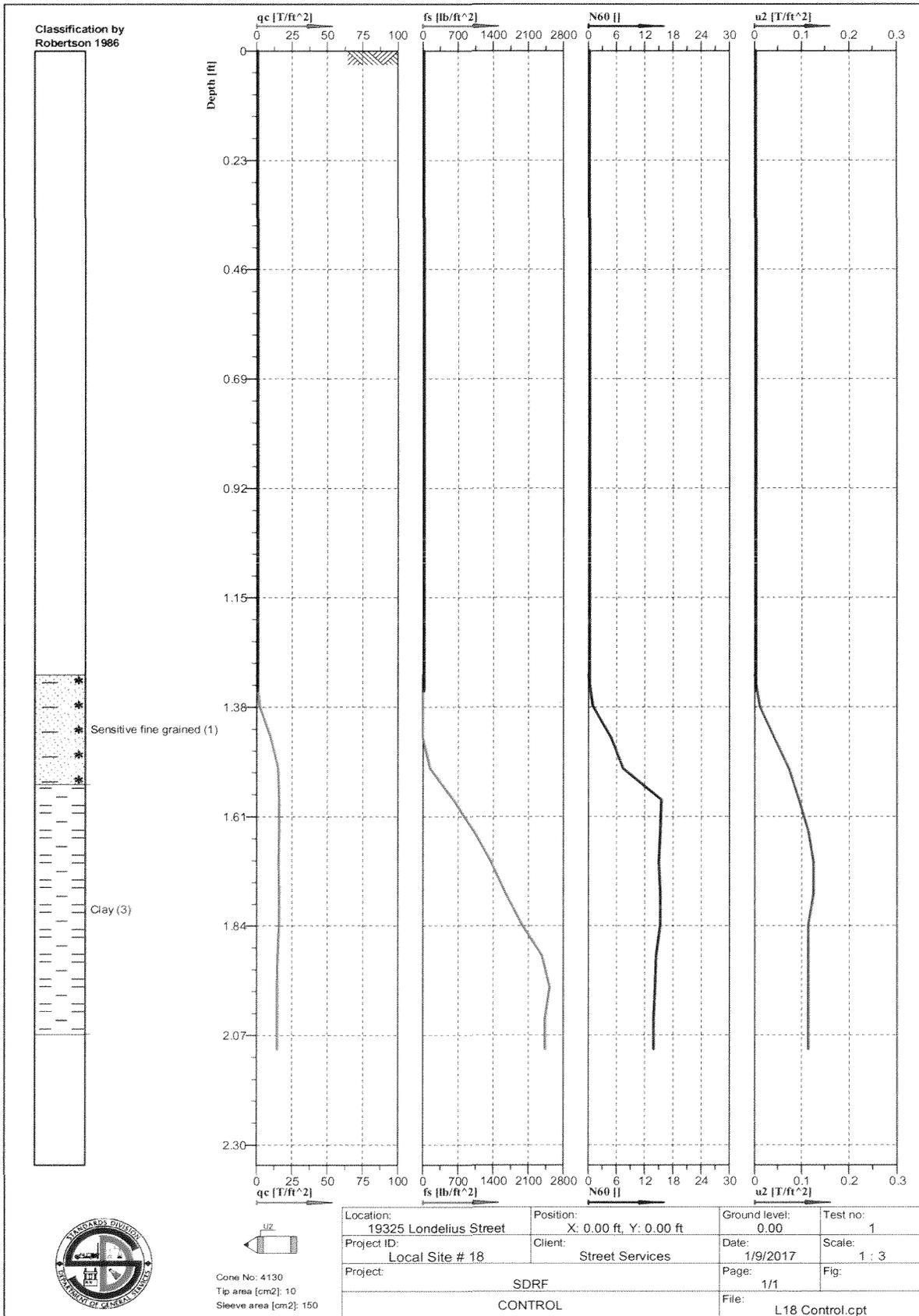
Lab No.: 17-741-070



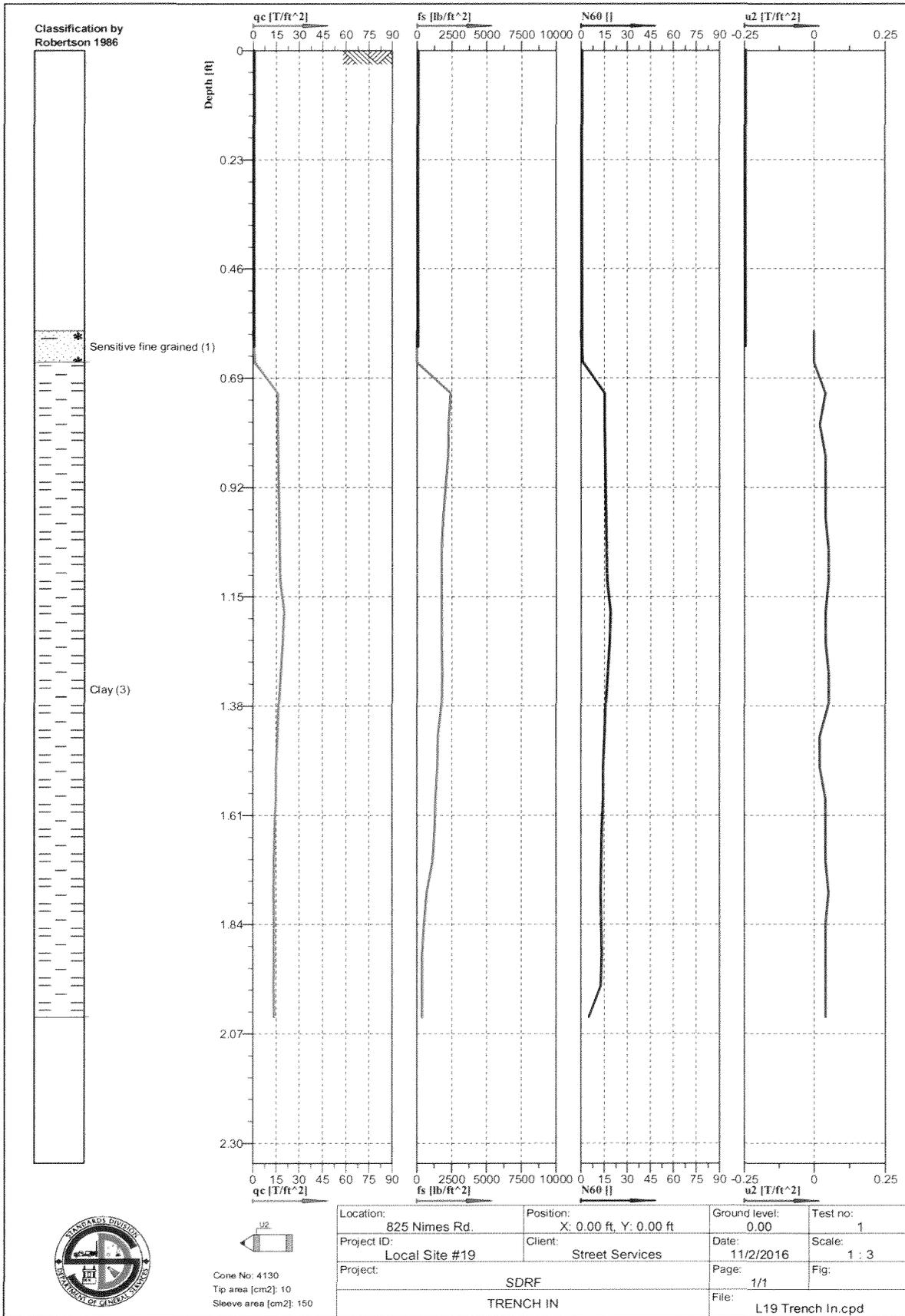
Lab No.: 17-741-071



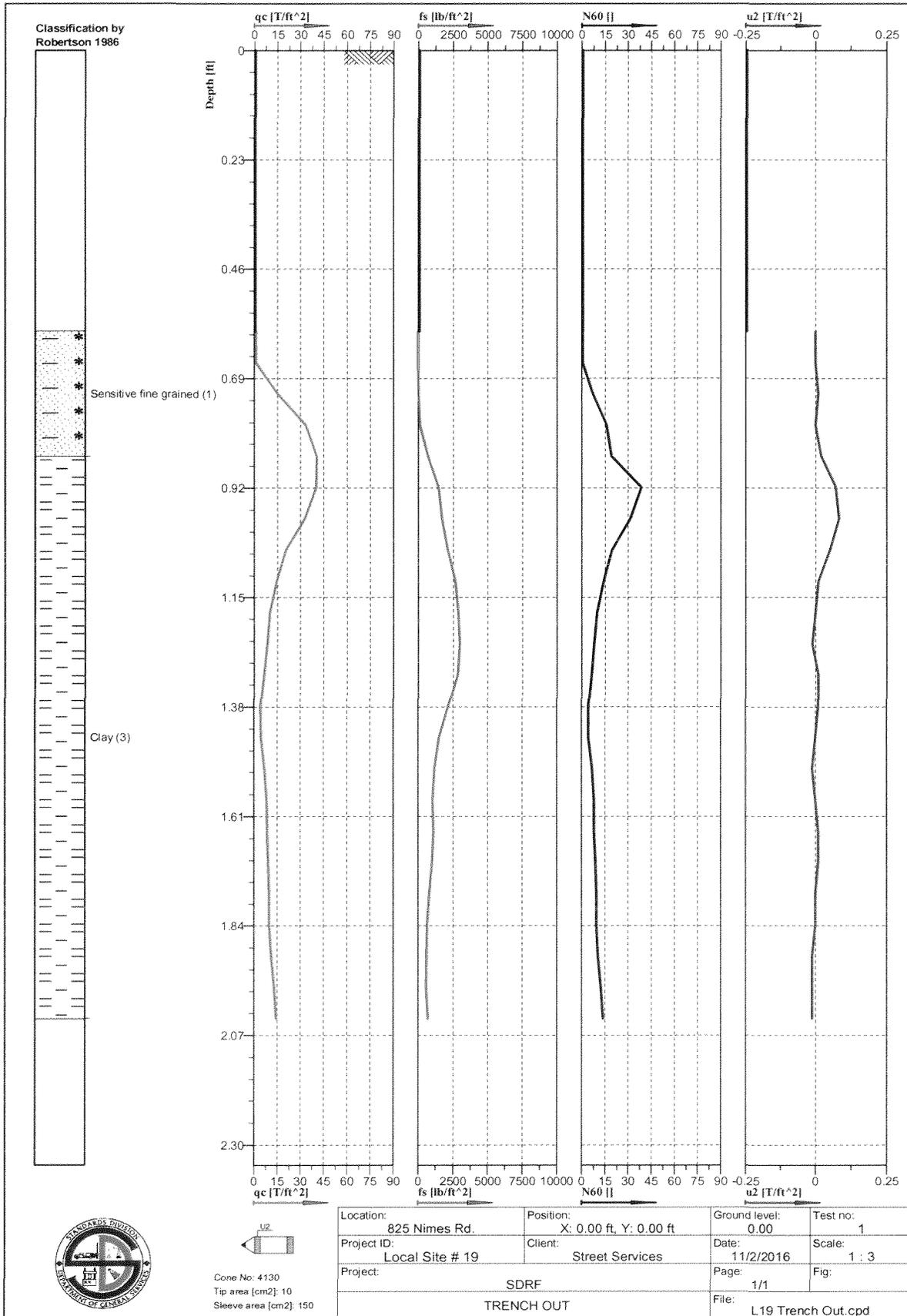
Lab No.: 17-741-072



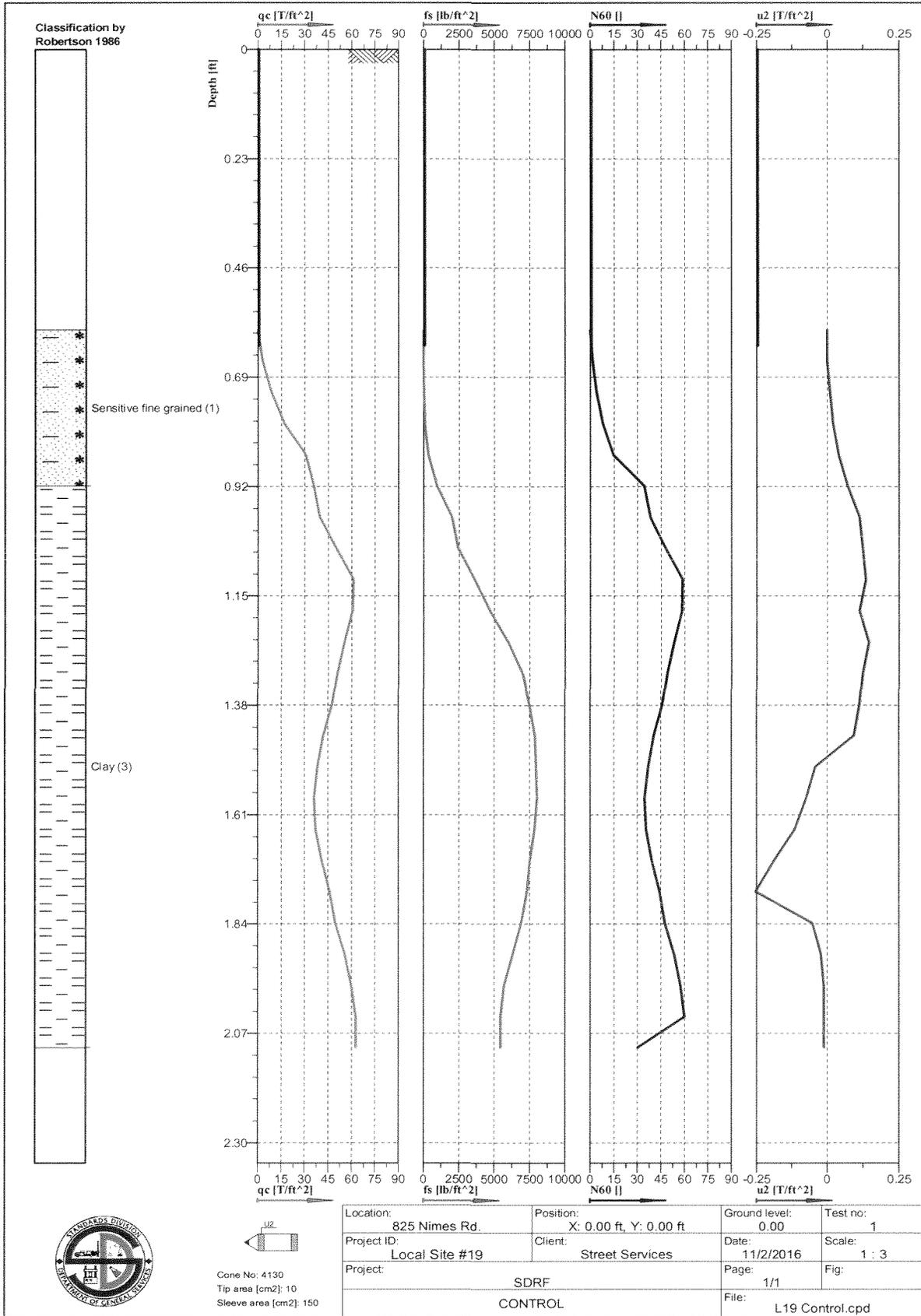
Lab No.: 17-741-073

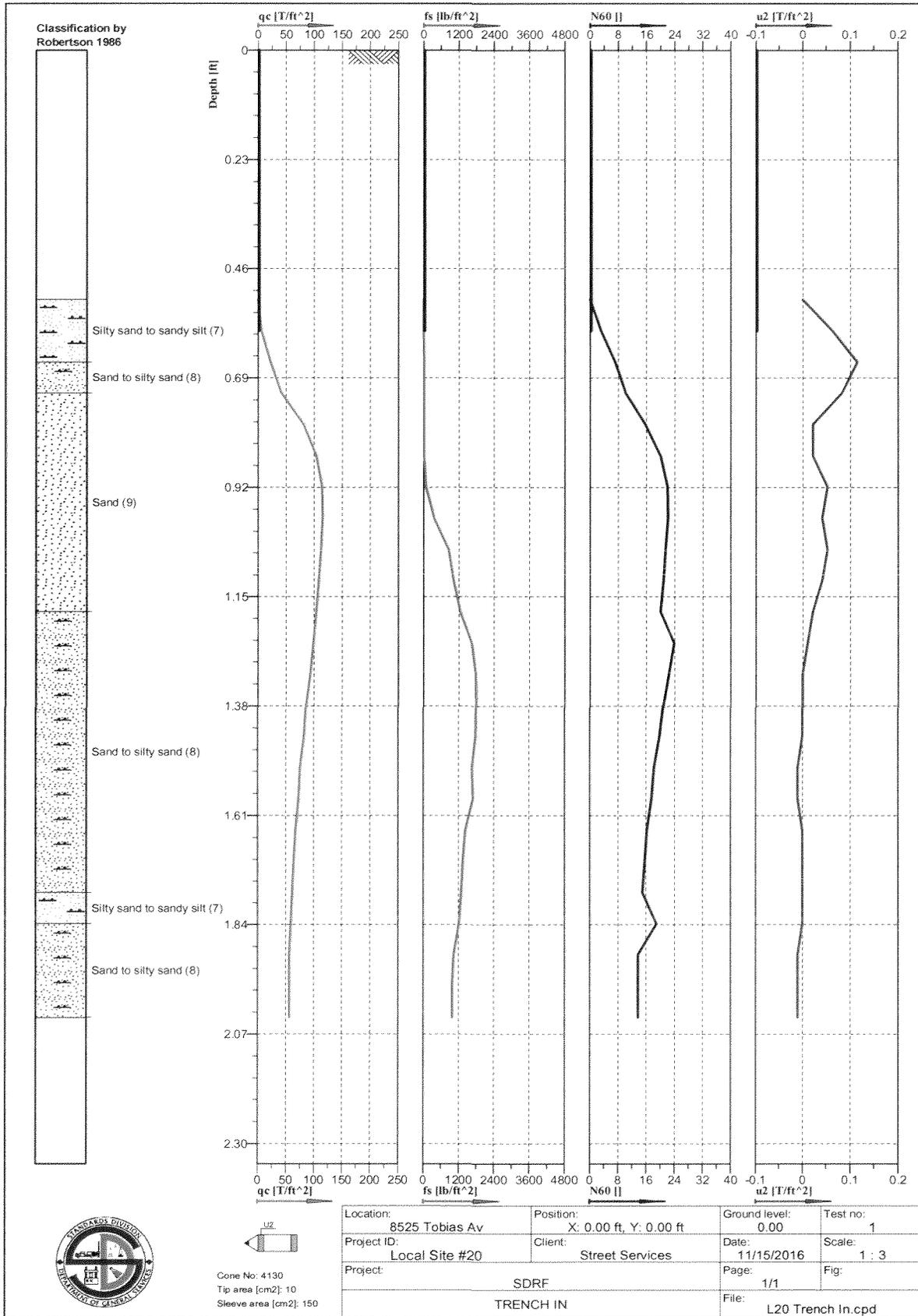


Lab No.: 17-741-074



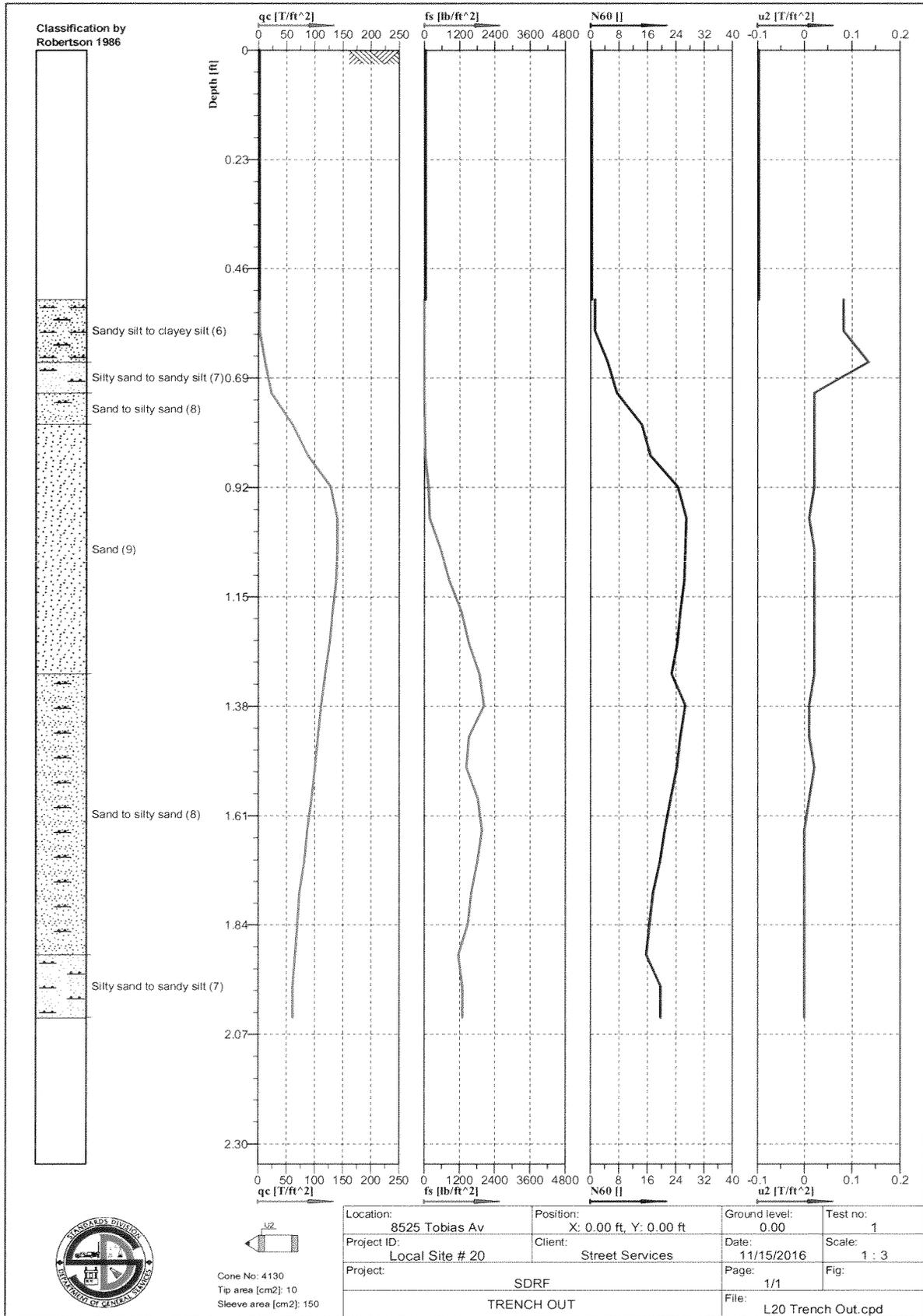
Lab No.: 17-741-075



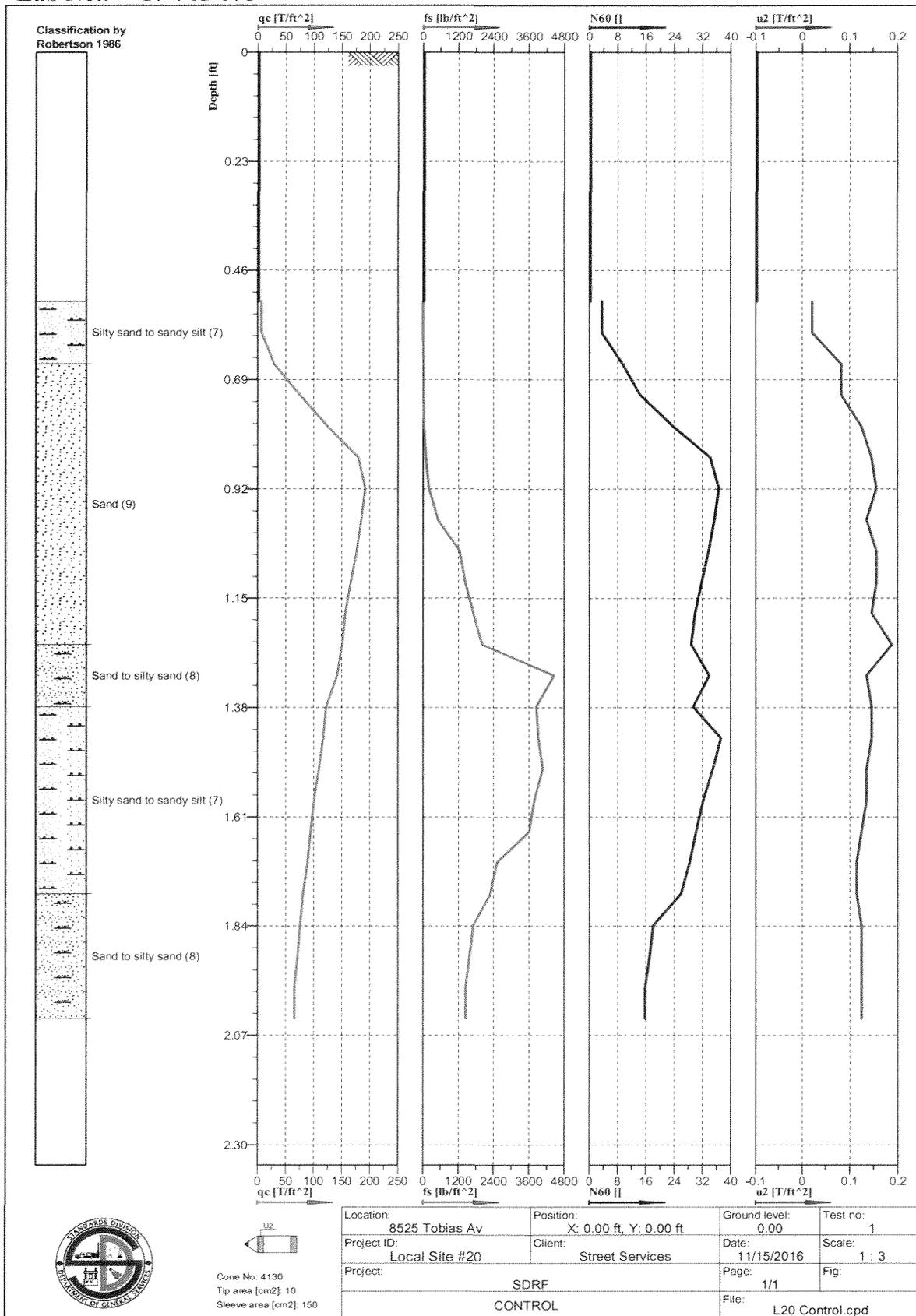


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-077



Lab No.: 17-741-078



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 8525 Tobias Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #20	Client: Street Services	Date: 11/15/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: L20 Control.cpd	

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

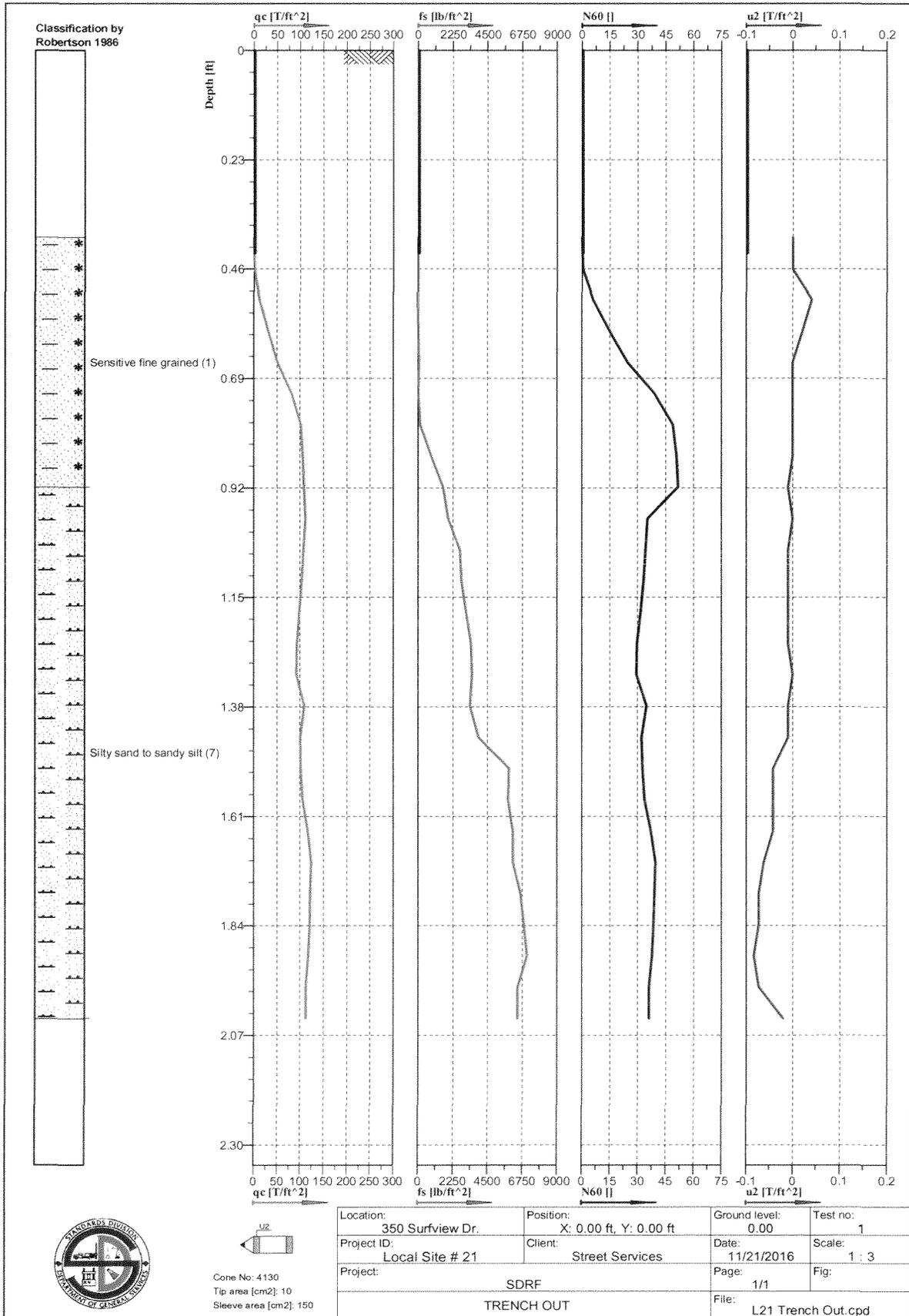
Asphalt thickness = 5.0”.



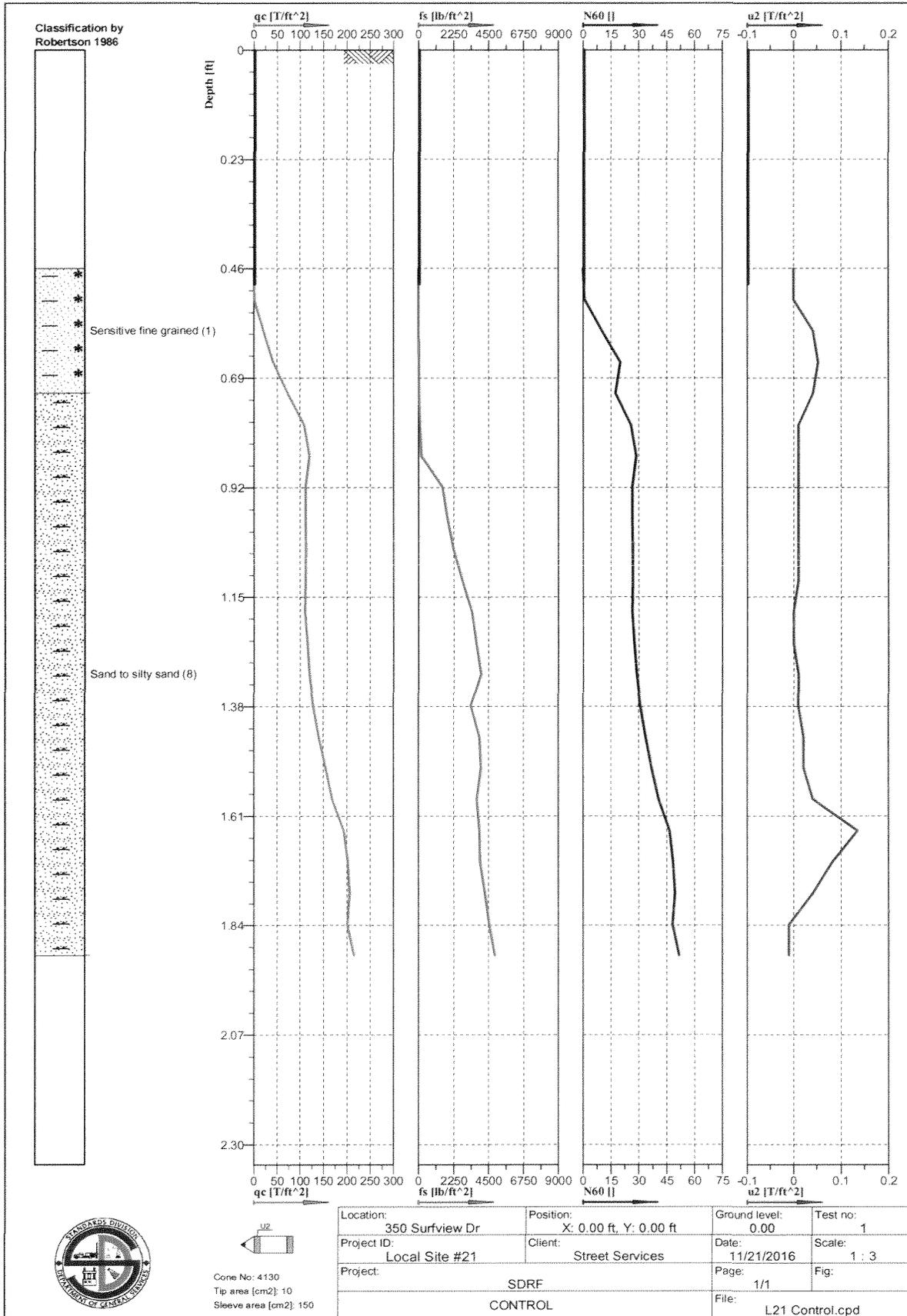
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

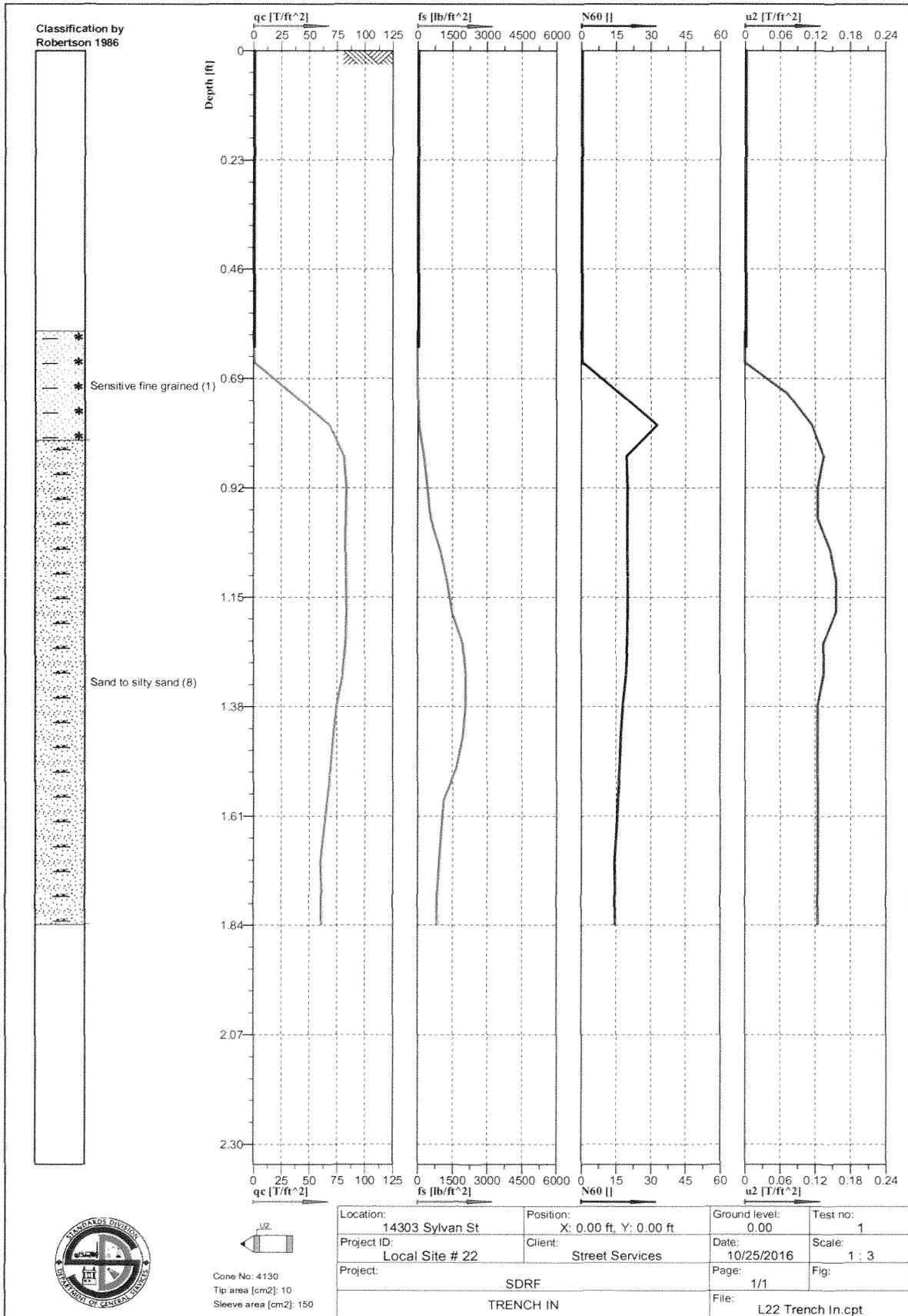
Location:	350 Surfview Dr	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site #21	Client:	Street Services	Date:	11/21/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	L21 Trench In.cpd		

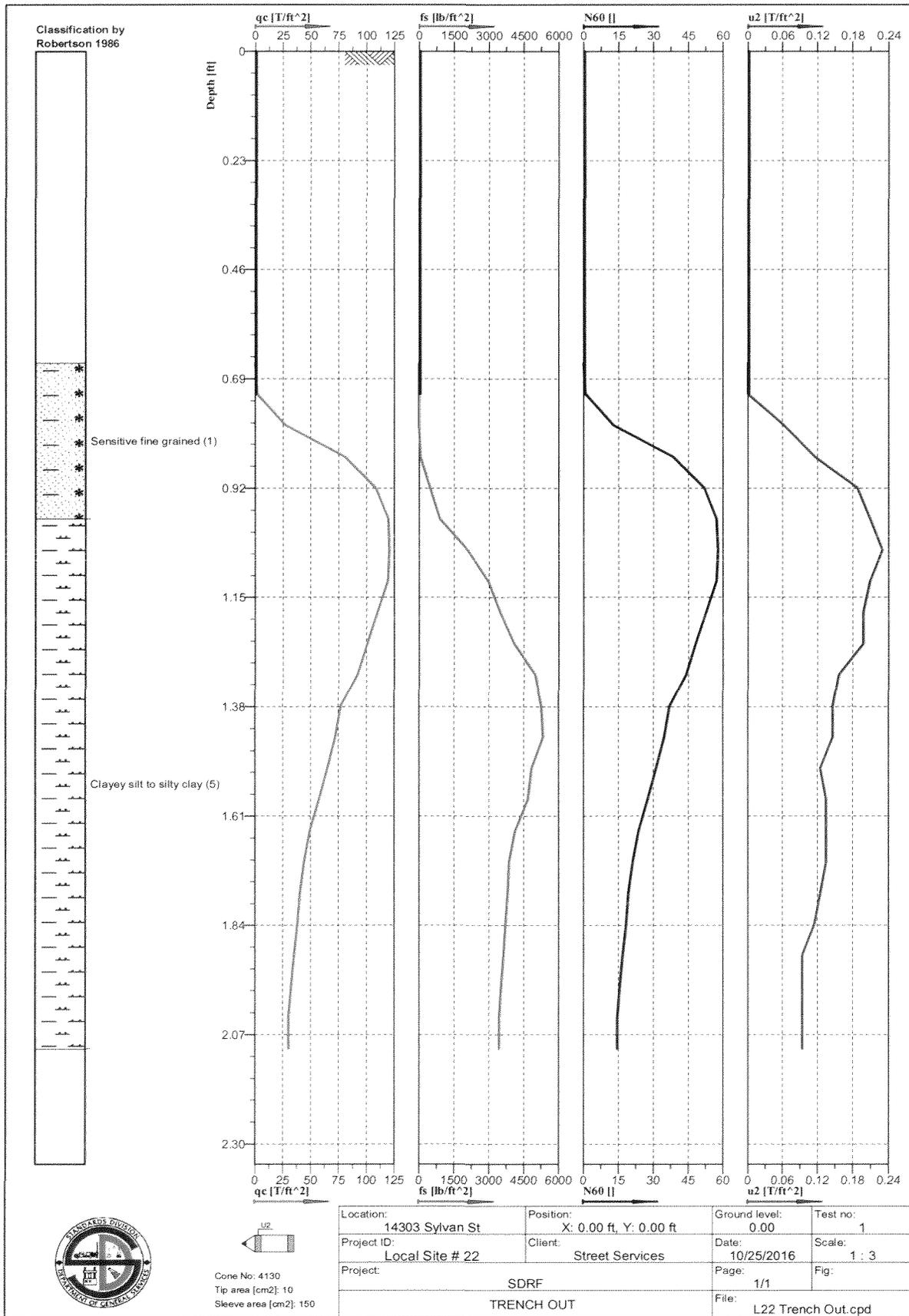
Lab No.: 17-741-080



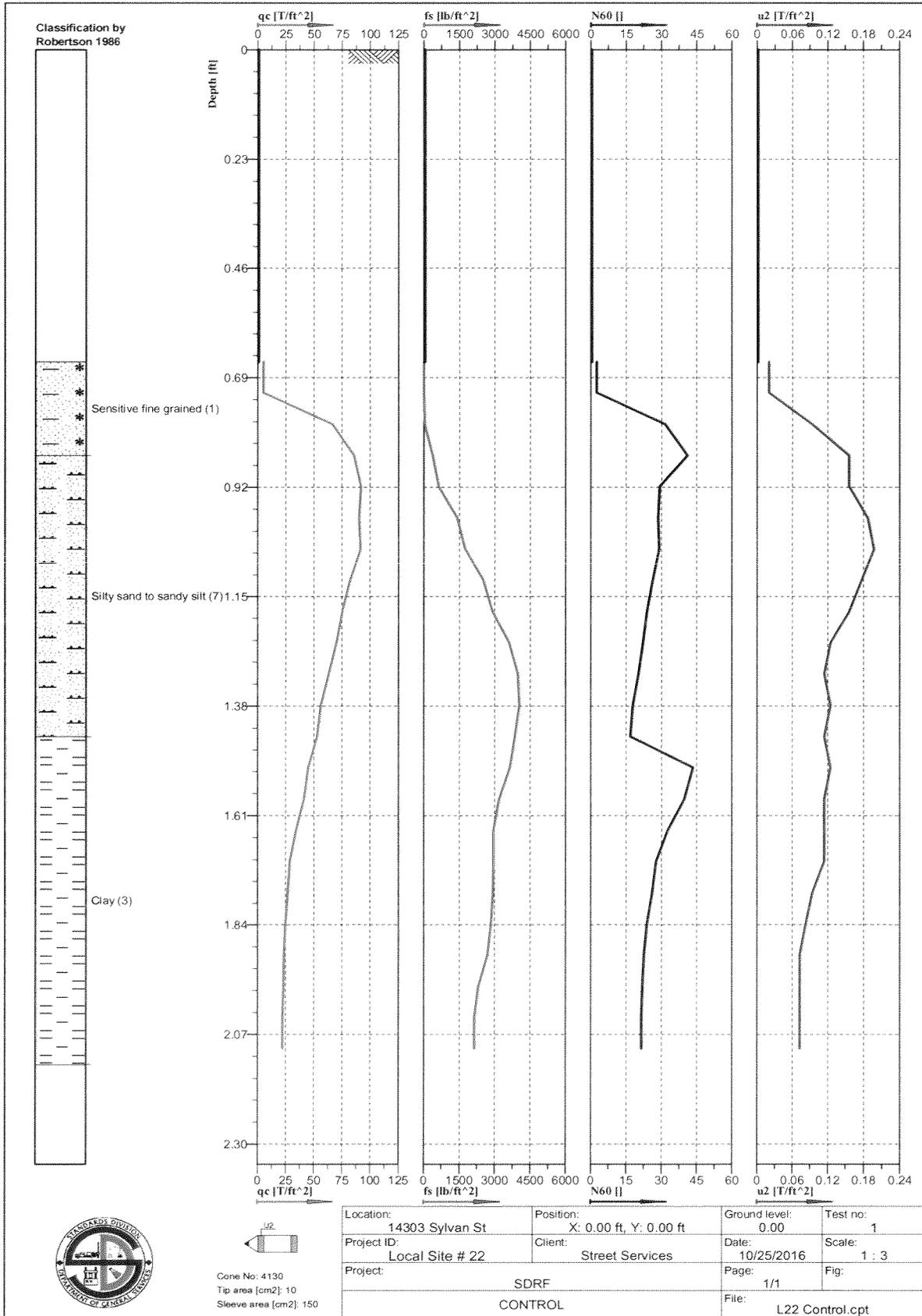
Lab No.: 17-741-081



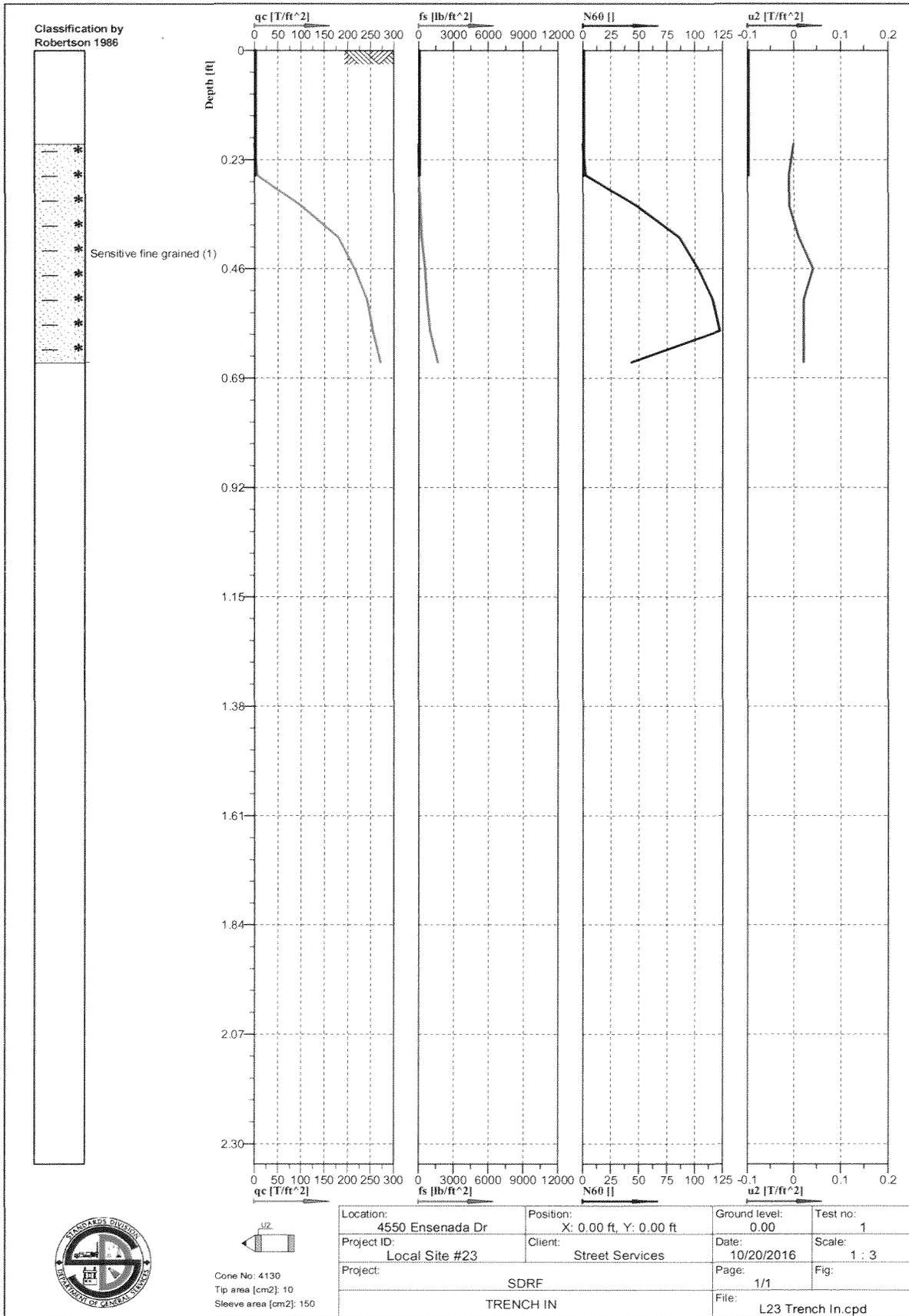


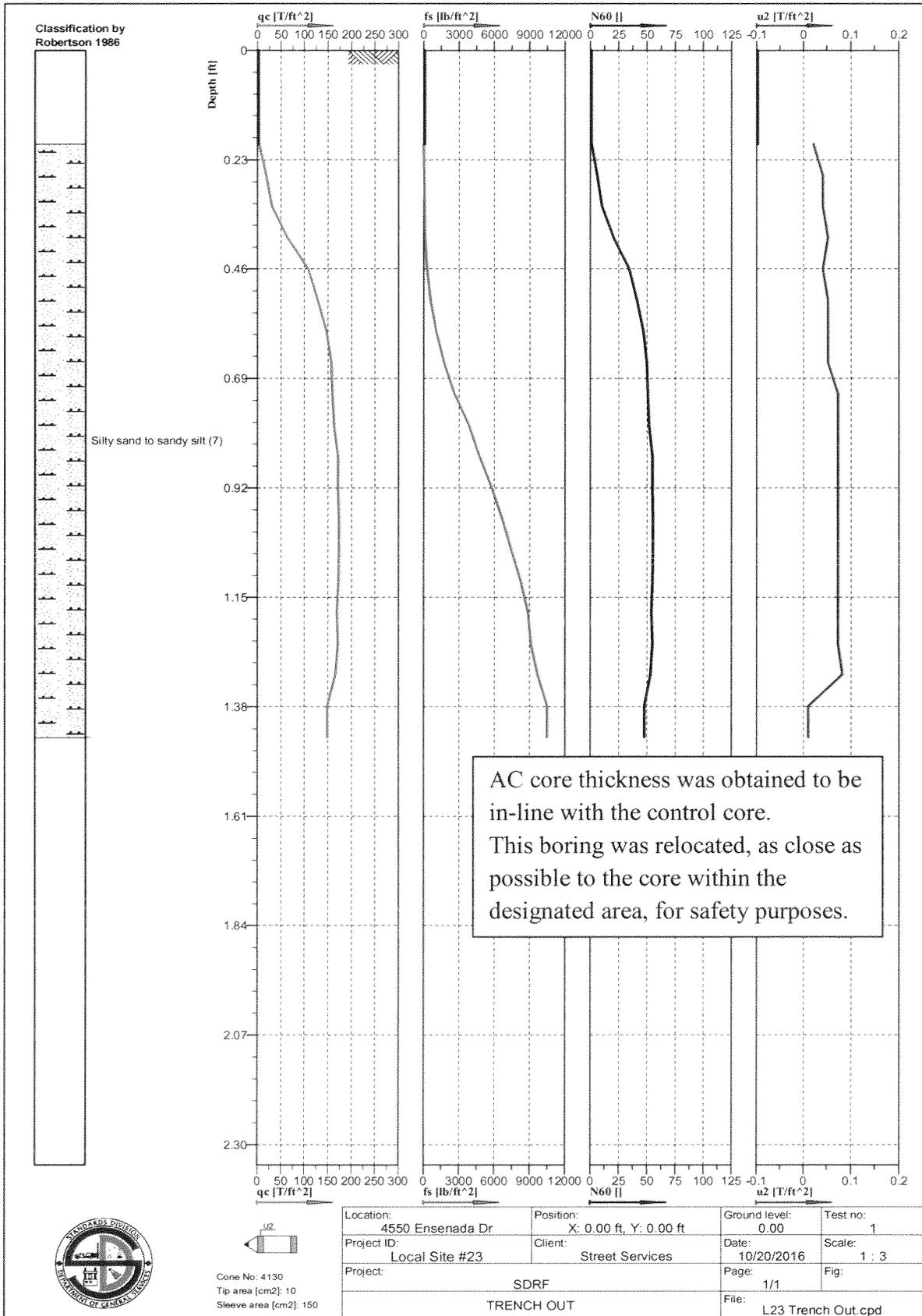


Lab No.: 17-741-084

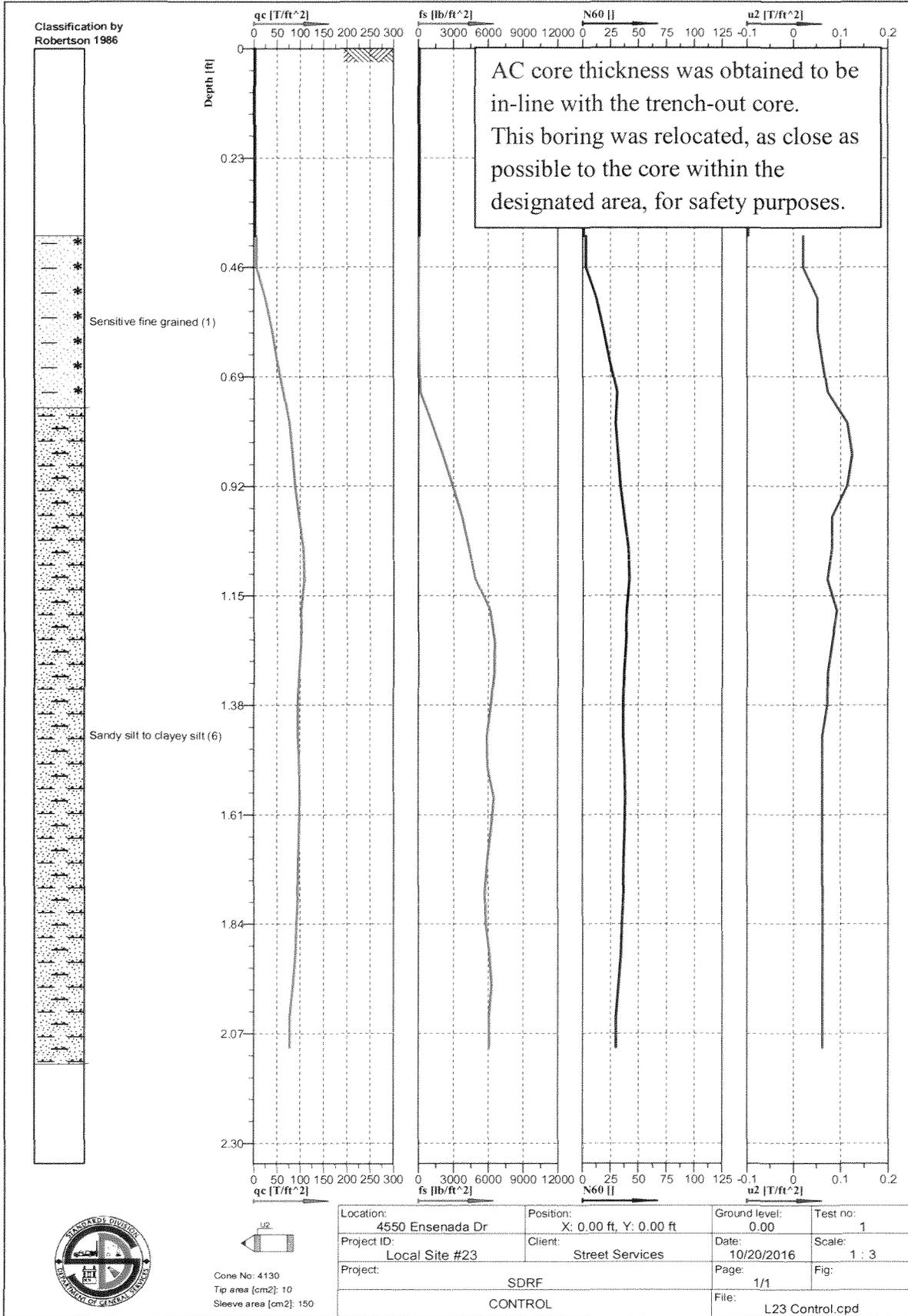


Lab No.: 17-741-085

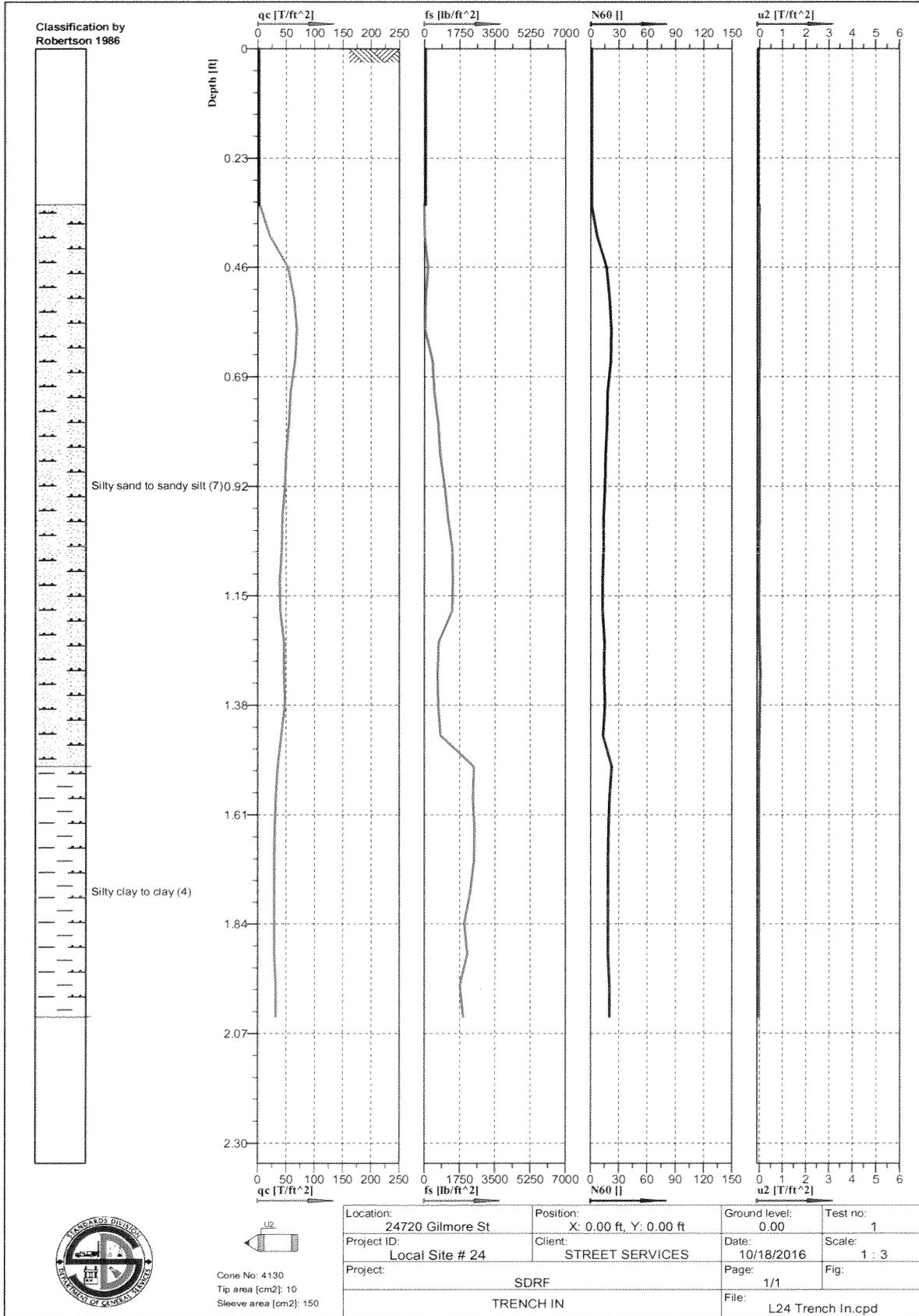




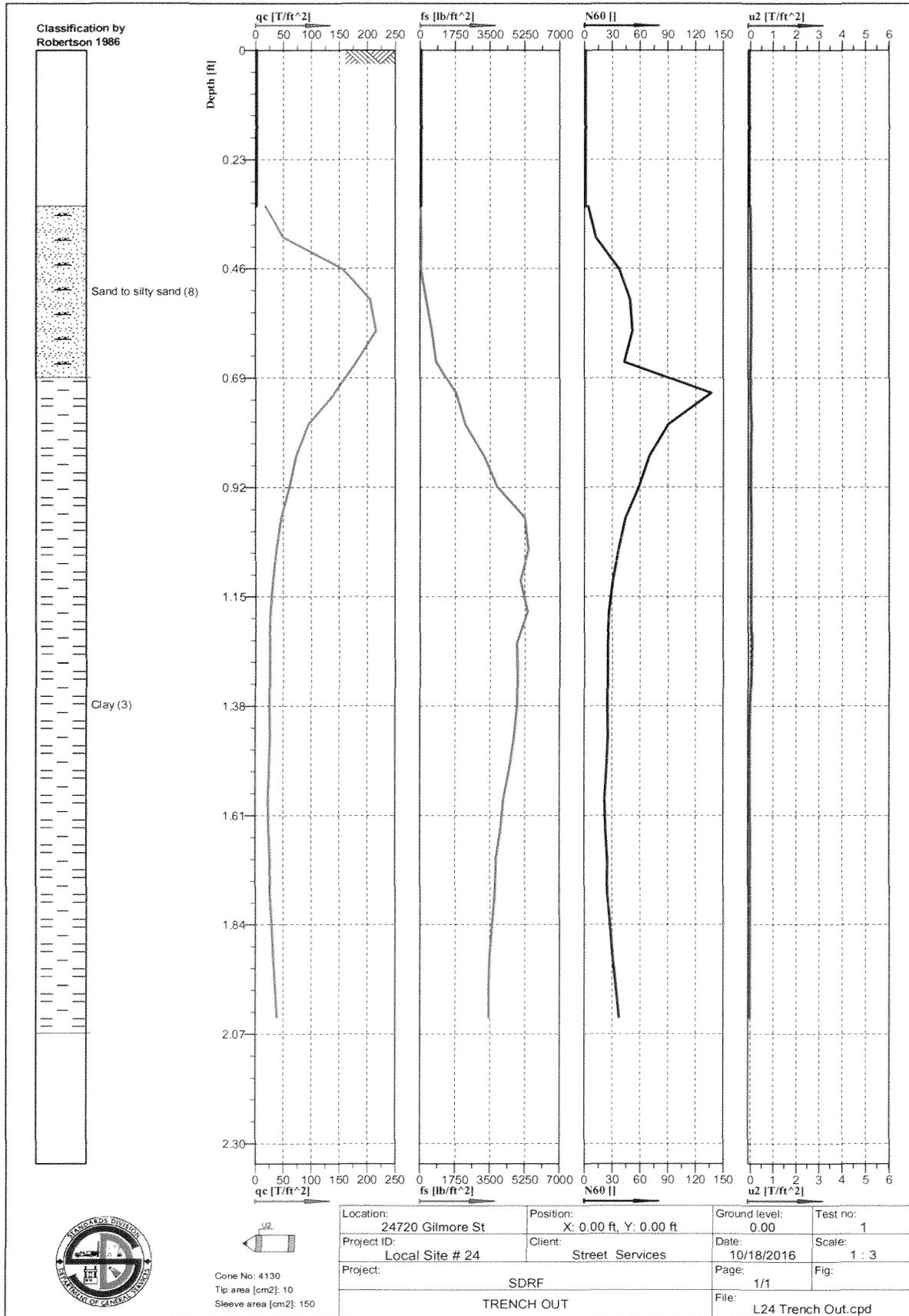
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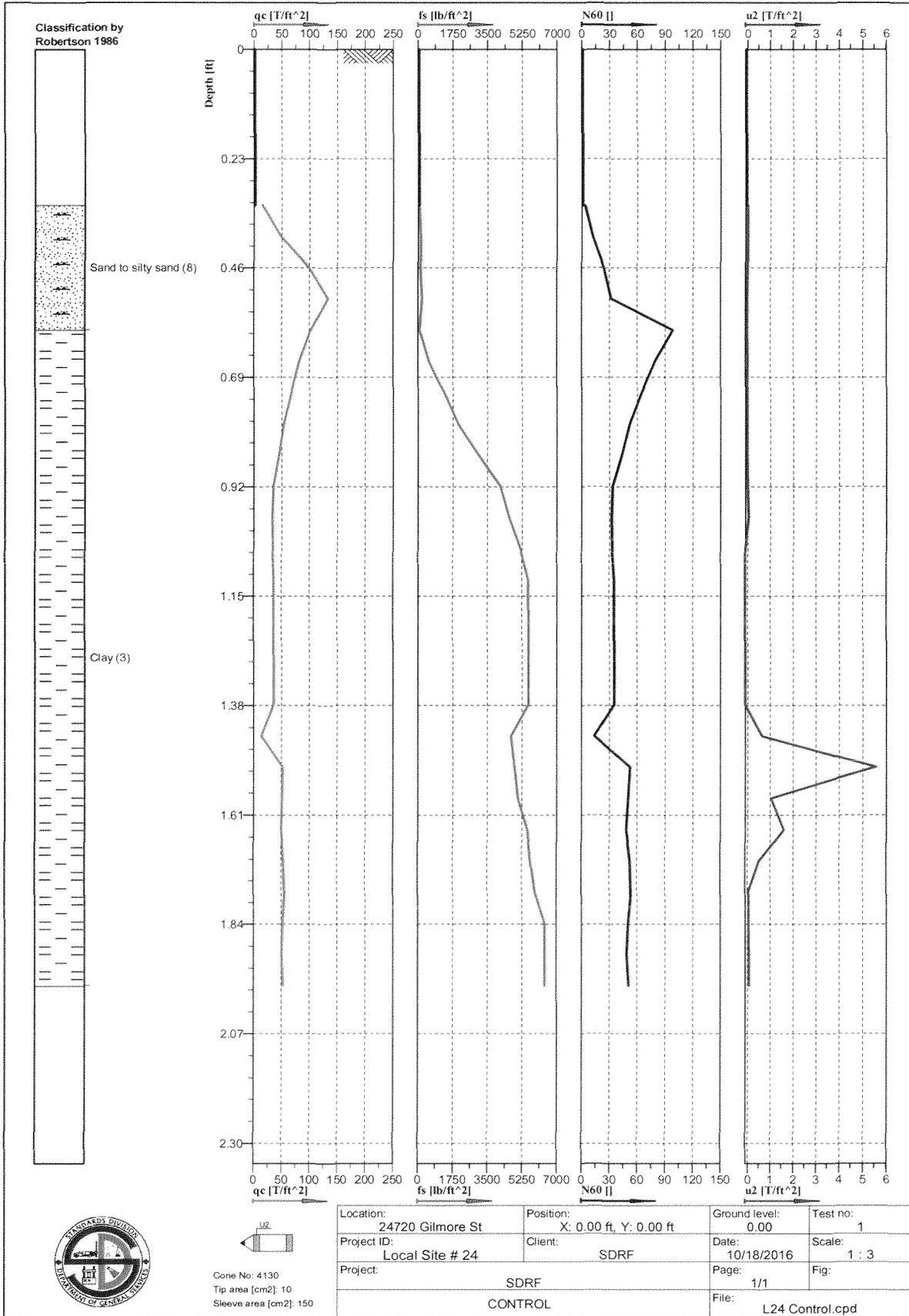
Lab No.: 17-741-088



Lab No.: 17-741-089



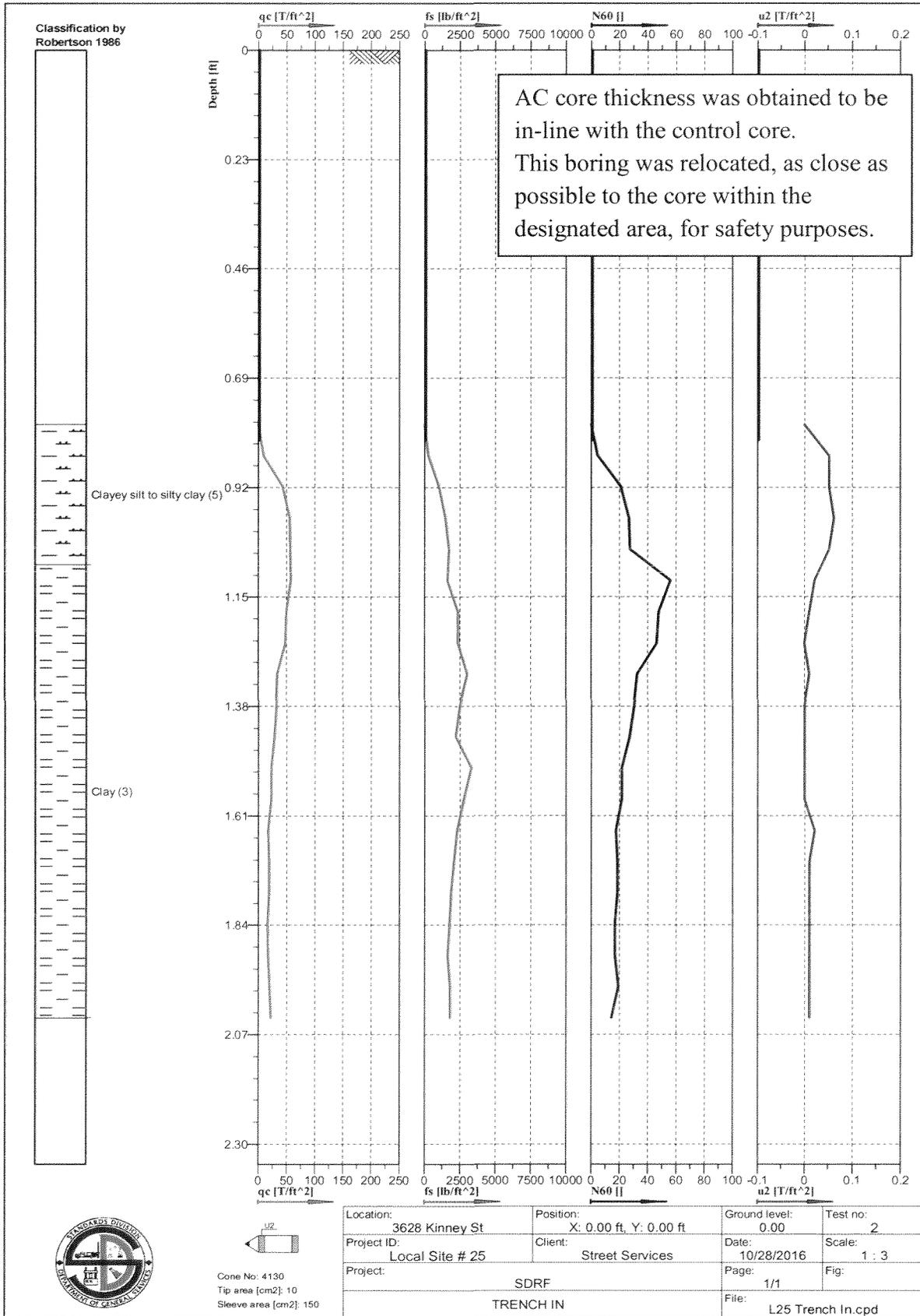
Lab No.: 17-741-090



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

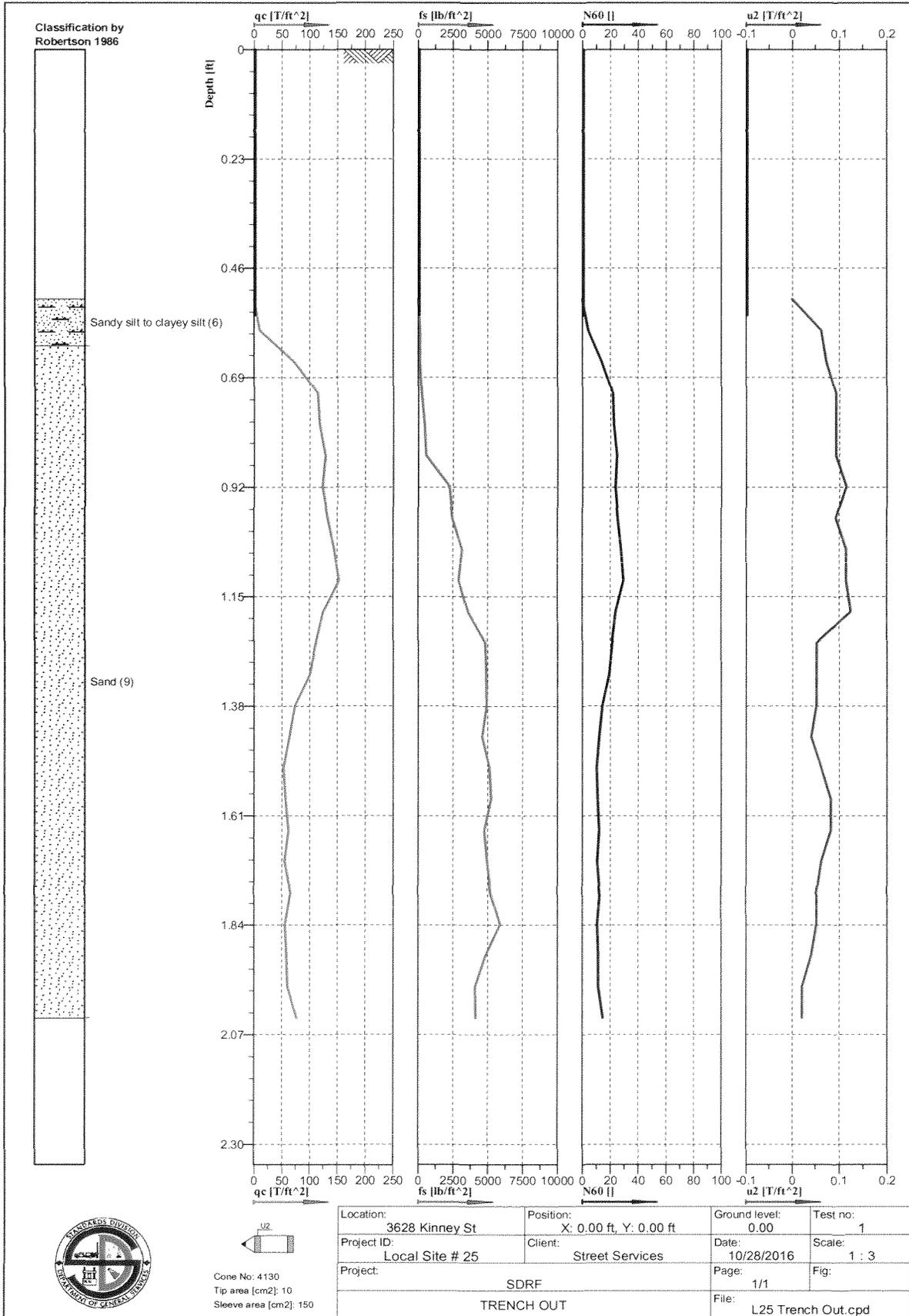
Location: 24720 Gilmore St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 24	Client: SDRF	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: L24 Control.cpd	

Lab No.: 17-741-091

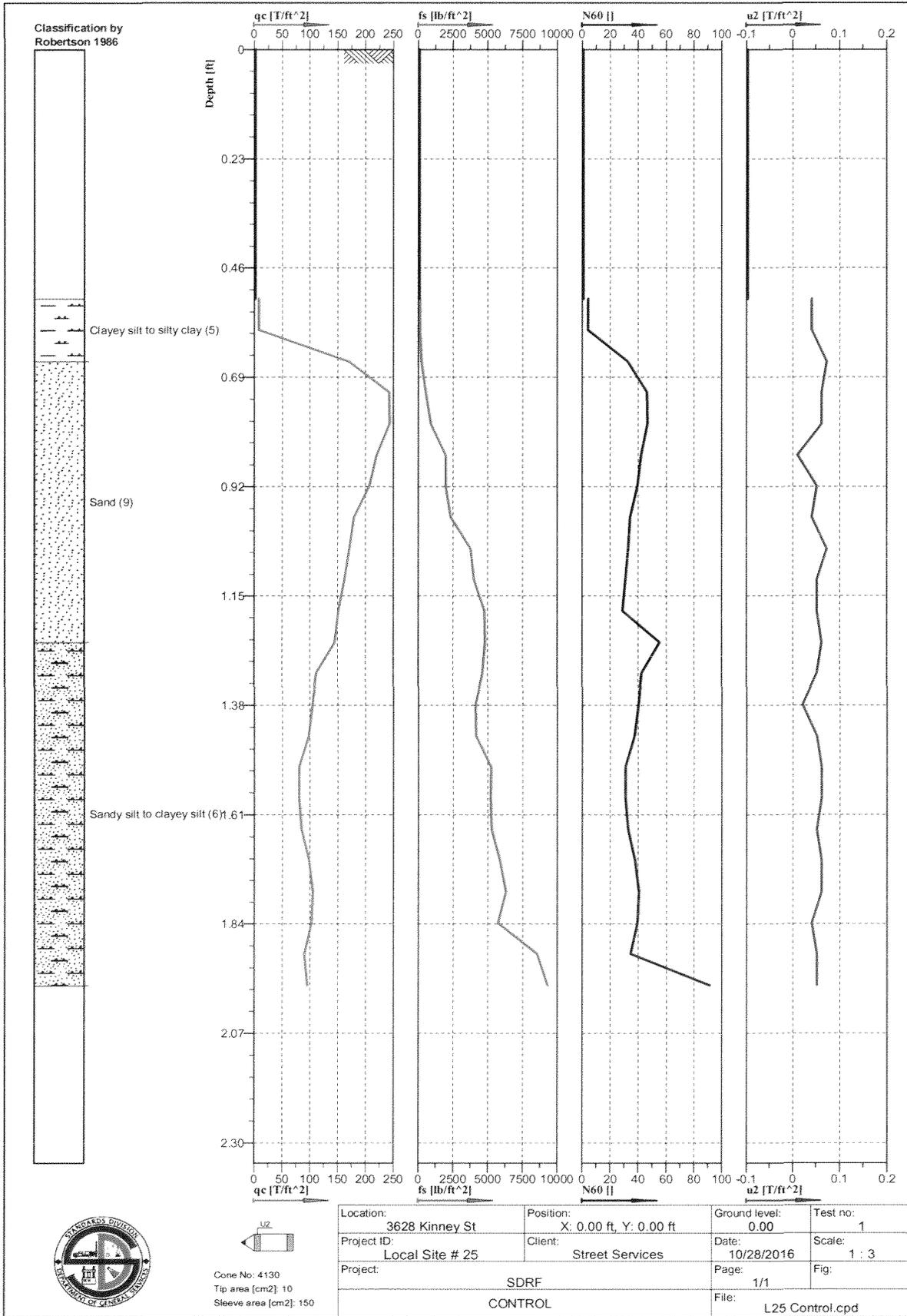


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	3628 Kinney St	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	2
Project ID:	Local Site # 25	Client:	Street Services	Date:	10/28/2016	Scale:	1 : 3
Project:	SDRF		Page:	1/1	Fig:		
TRENCH IN			File:	L25 Trench In.cpd			



Lab No.: 17-741-093



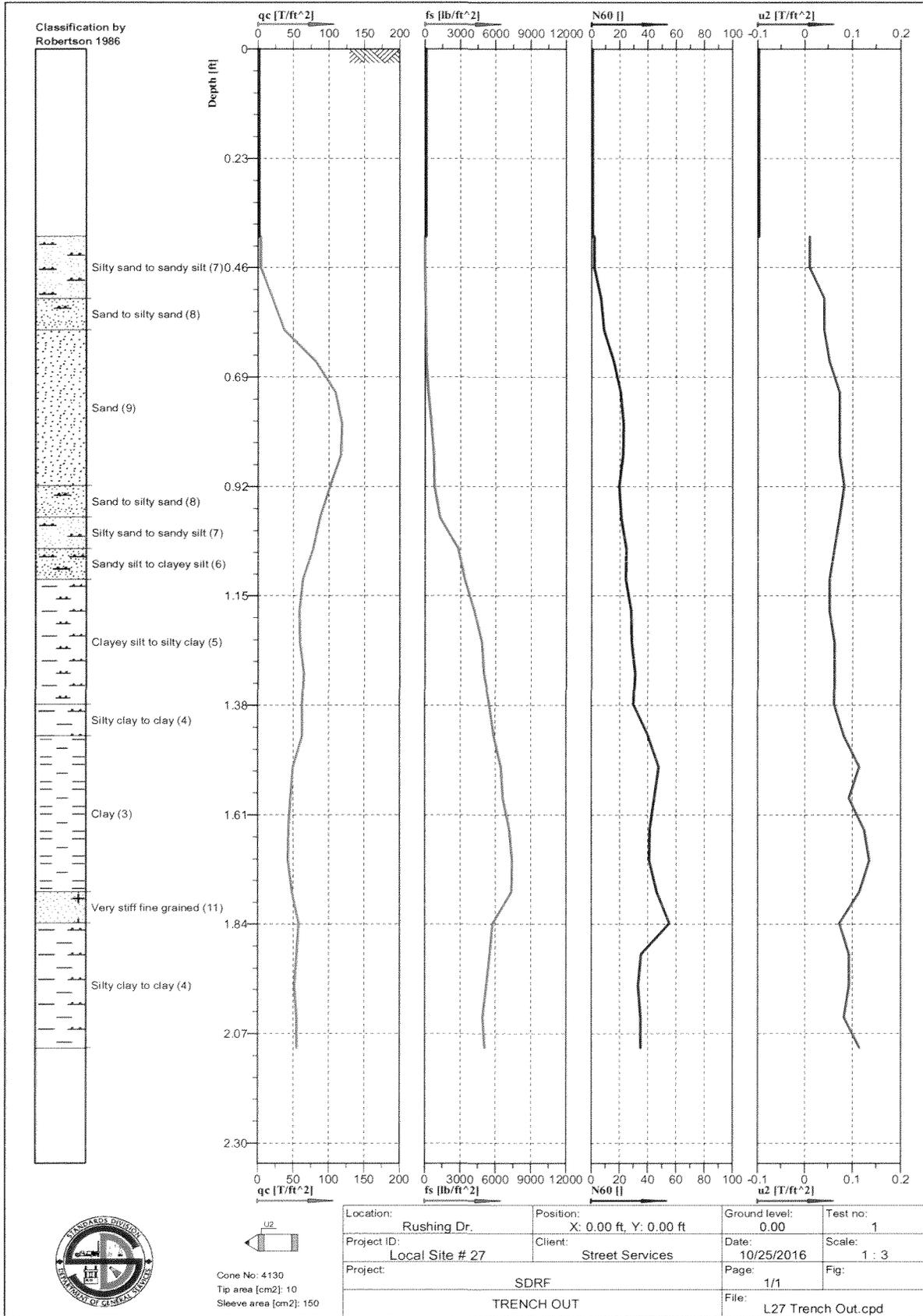
Trench is too narrow. Penetration not allowed. No CPTU performed.
Asphalt thickness = 3.8".



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	Rushing Dr	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 27	Client:	Street Services	Date:	10/25/2016	Scale:	1 : 3
Project:	SDRF		Page:	1/1	Fig:		
	TRENCH IN		File:	L27 Trench In.cpt			

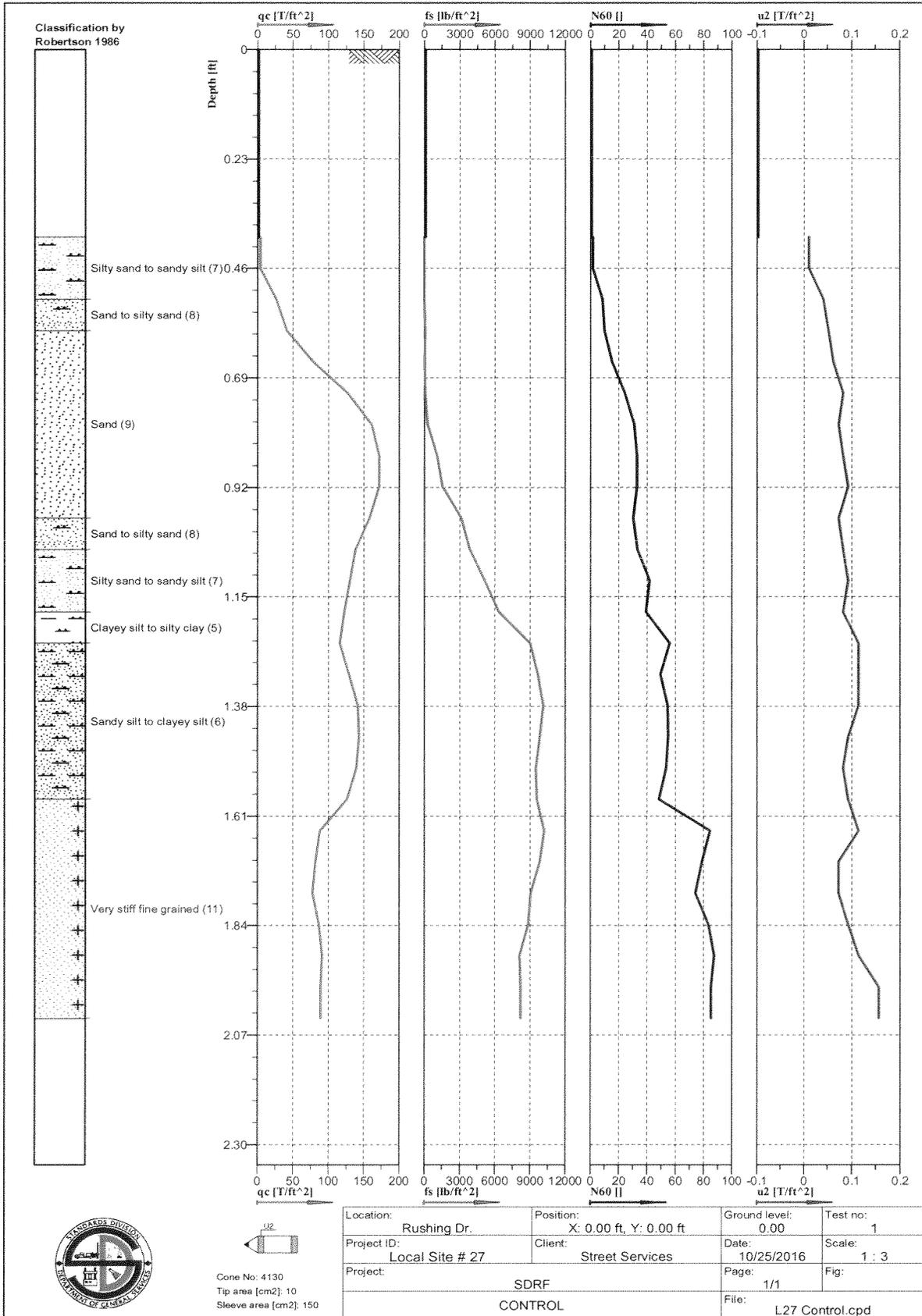
Lab No.: 17-741-095



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	Rushing Dr.	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 27	Client:	Street Services	Date:	10/25/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
TRENCH OUT				File:	L27 Trench Out.cpd		

Lab No.: 17-741-096



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Rushing Dr.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 27	Client: Street Services	Date: 10/25/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L27 Control.cpd	

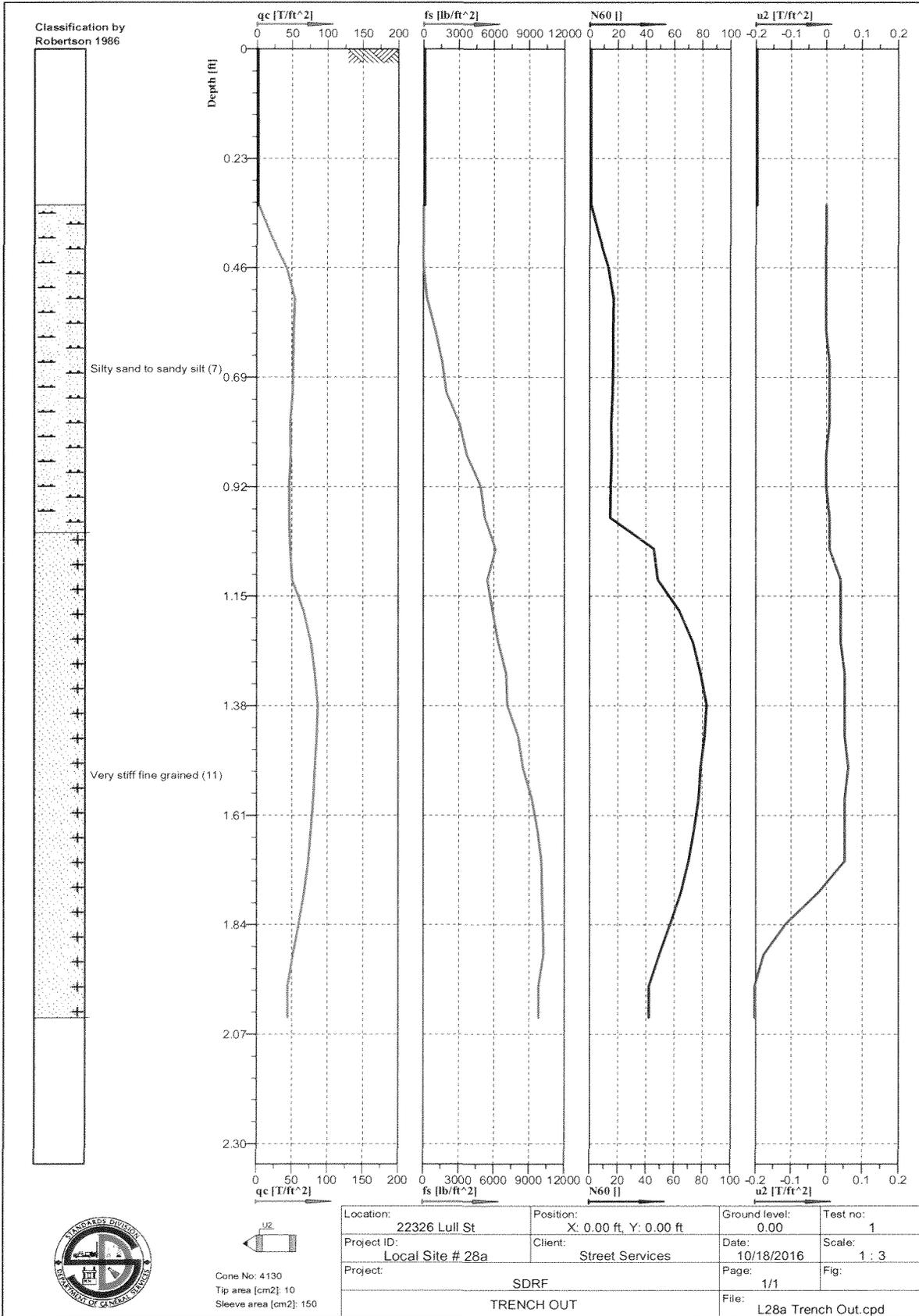
Trench is too narrow. Penetration not allowed. No CPTU performed.
 Asphalt thickness = 1.2”.



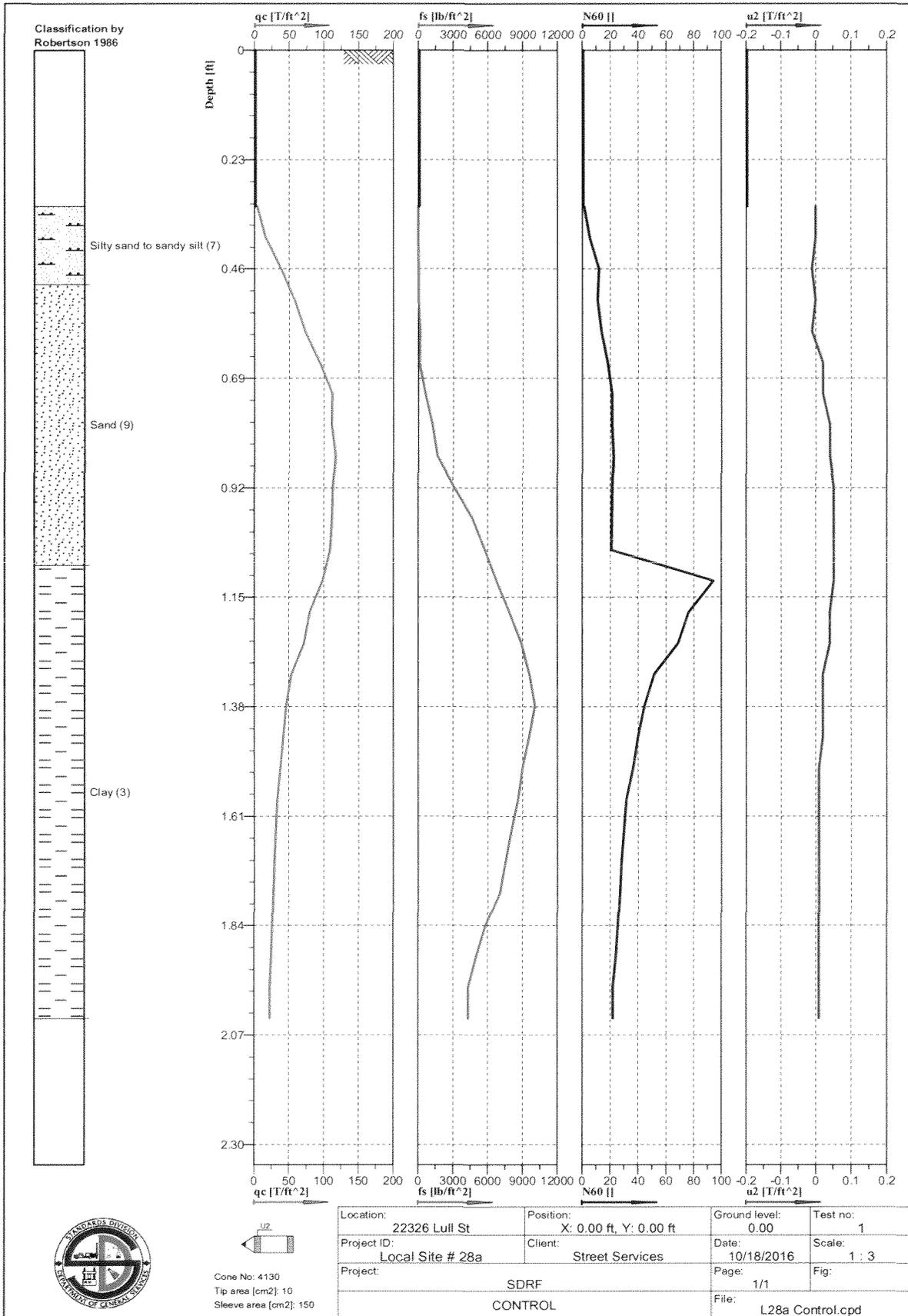
Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

Location: 22326 Lull St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 28a	Client: Street Services	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L28a Trench In.cpd	

Lab No.: 17-741-098



Lab No.: 17-741-099



Lab No.: 17-741-100

Trench is too narrow. Penetration not allowed. No CPTU performed.

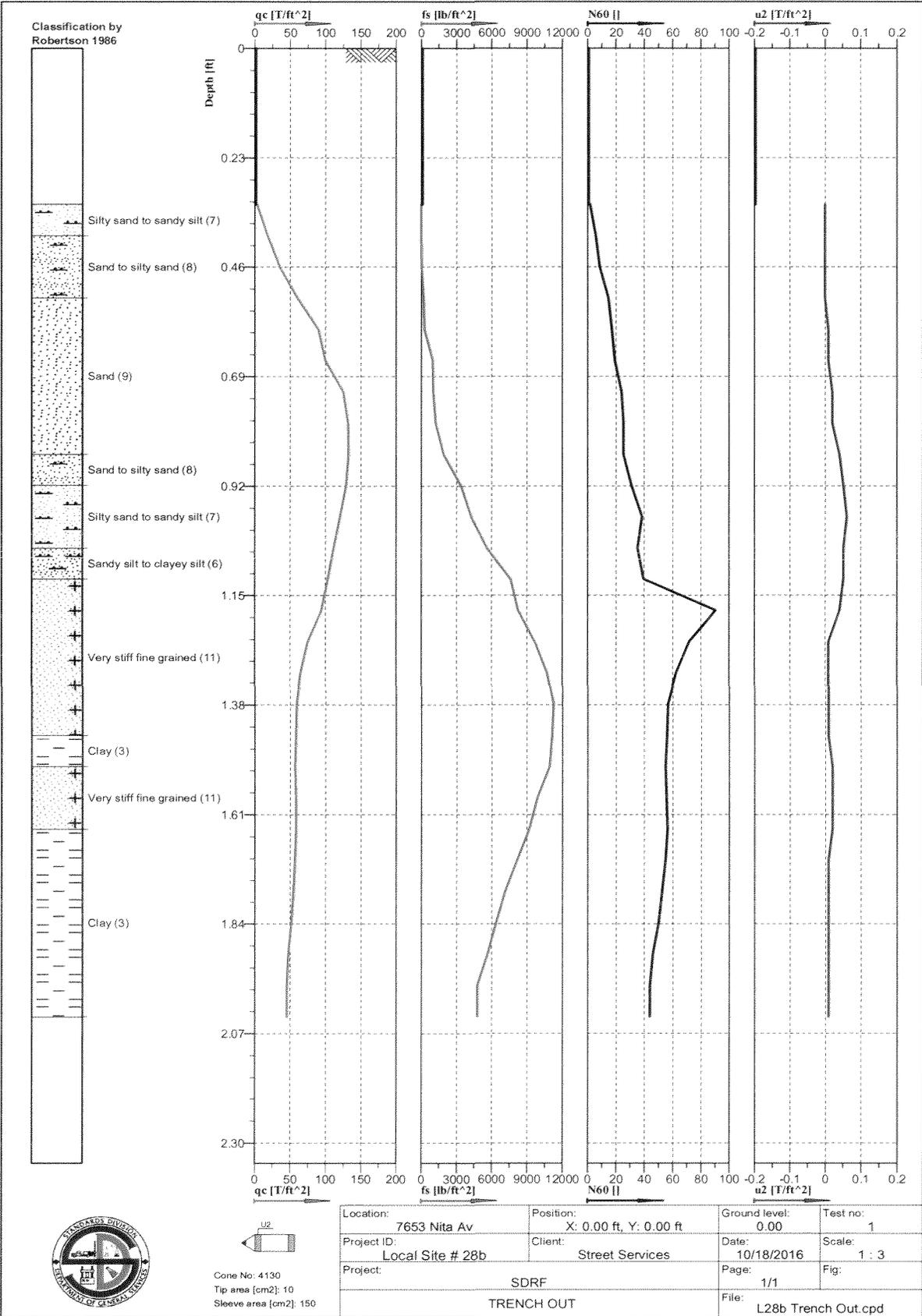
Asphalt thickness = 3.2”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

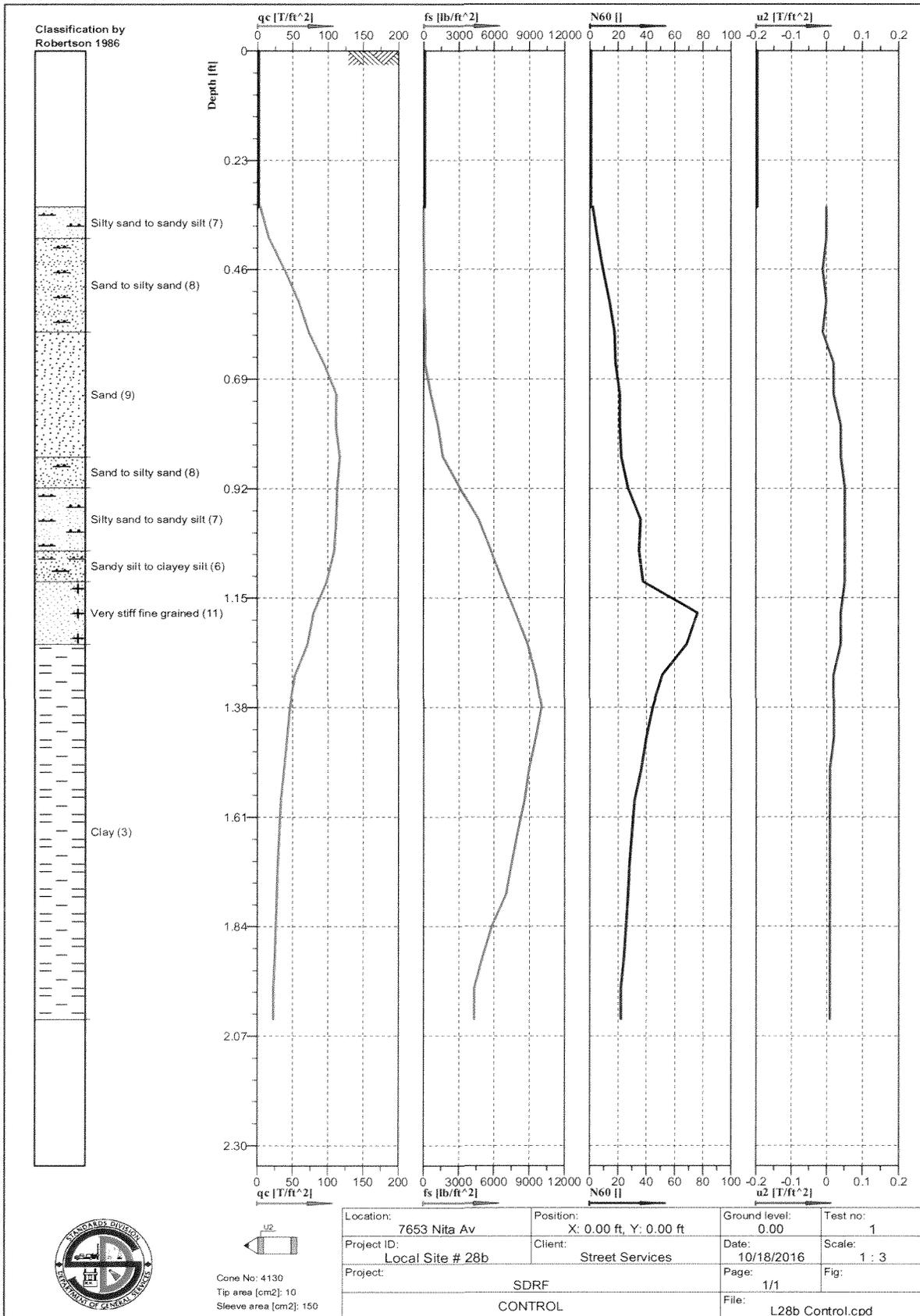
Location:	7653 Nita Av	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 28b	Client:	Street Services	Date:	10/18/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	L28b Trench In.cpd		

Lab No.: 17-741-101



Location: 7653 Nita Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 28b	Client: Street Services	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF	TRENCH OUT	Page: 1/1	Fig:
		File: L28b Trench Out.cpd	

Lab No.: 17-741-102



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 7653 Nita Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 28b	Client: Street Services	Date: 10/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: L28b Control.cpd	

Lab No.: 17-741-103

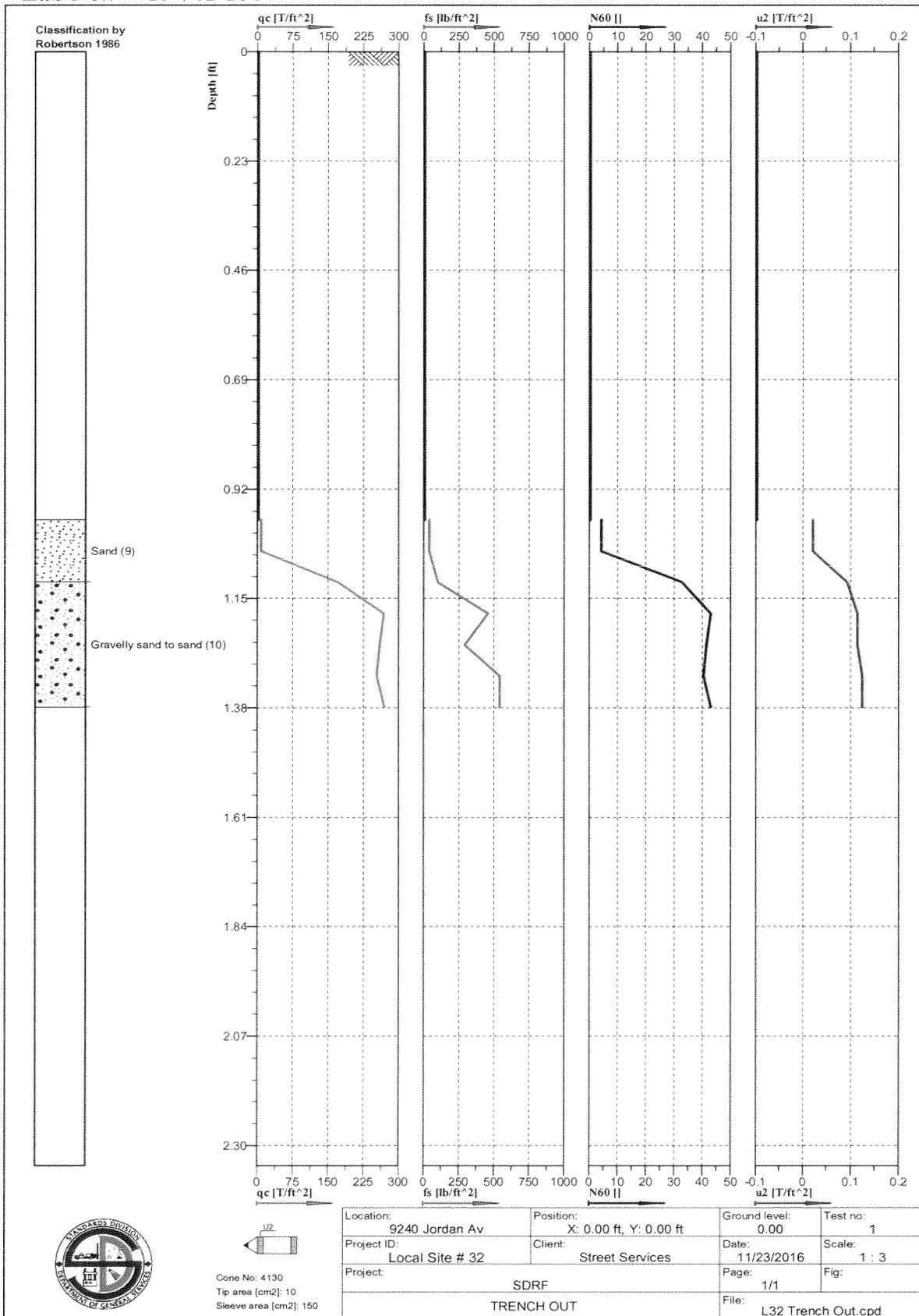
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 4.0”.

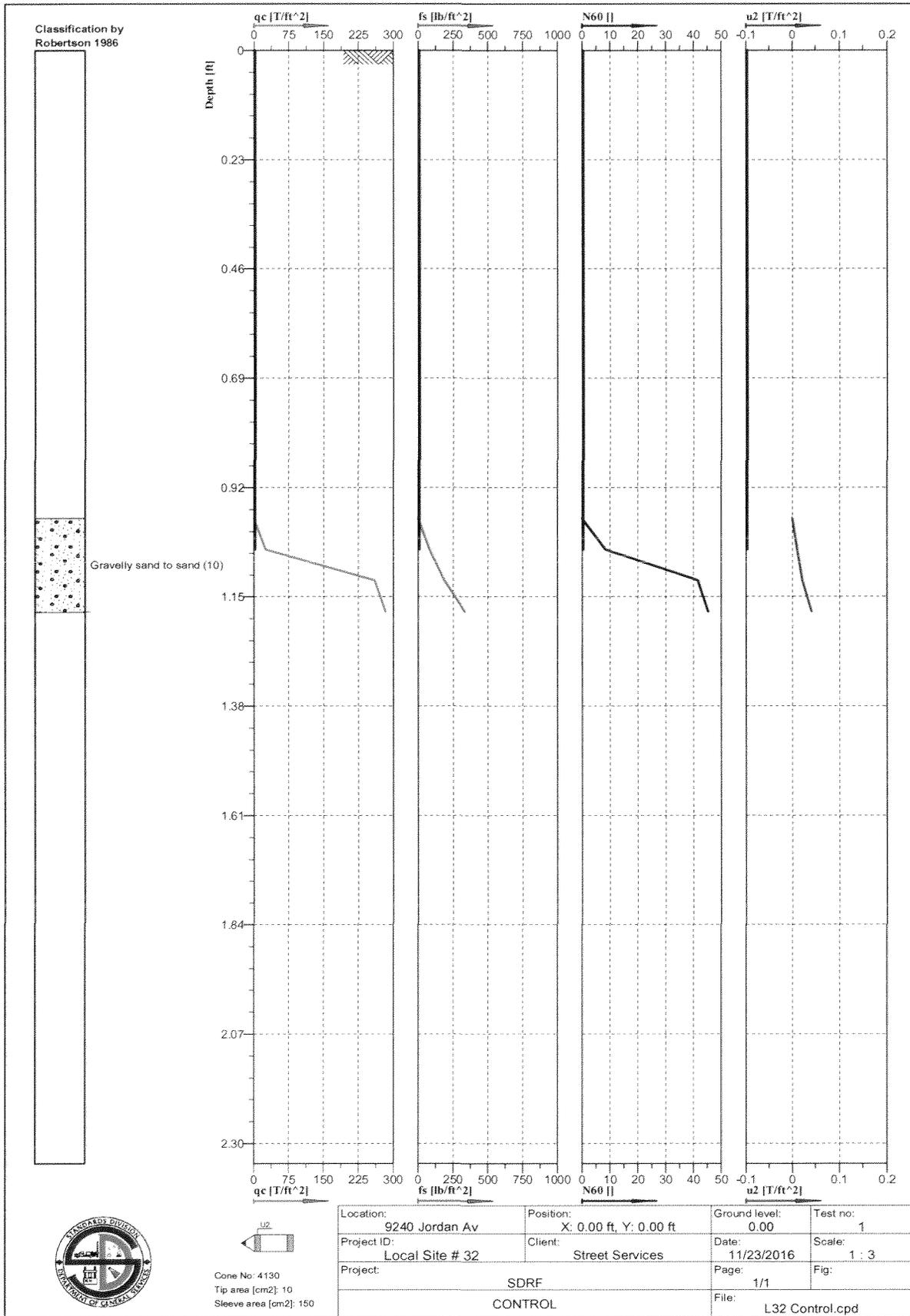


Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: 9240 Jordan Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 32	Client: Street Services	Date: 11/23/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L32 Trench In.cpd	



Lab No.: 17-741-105



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

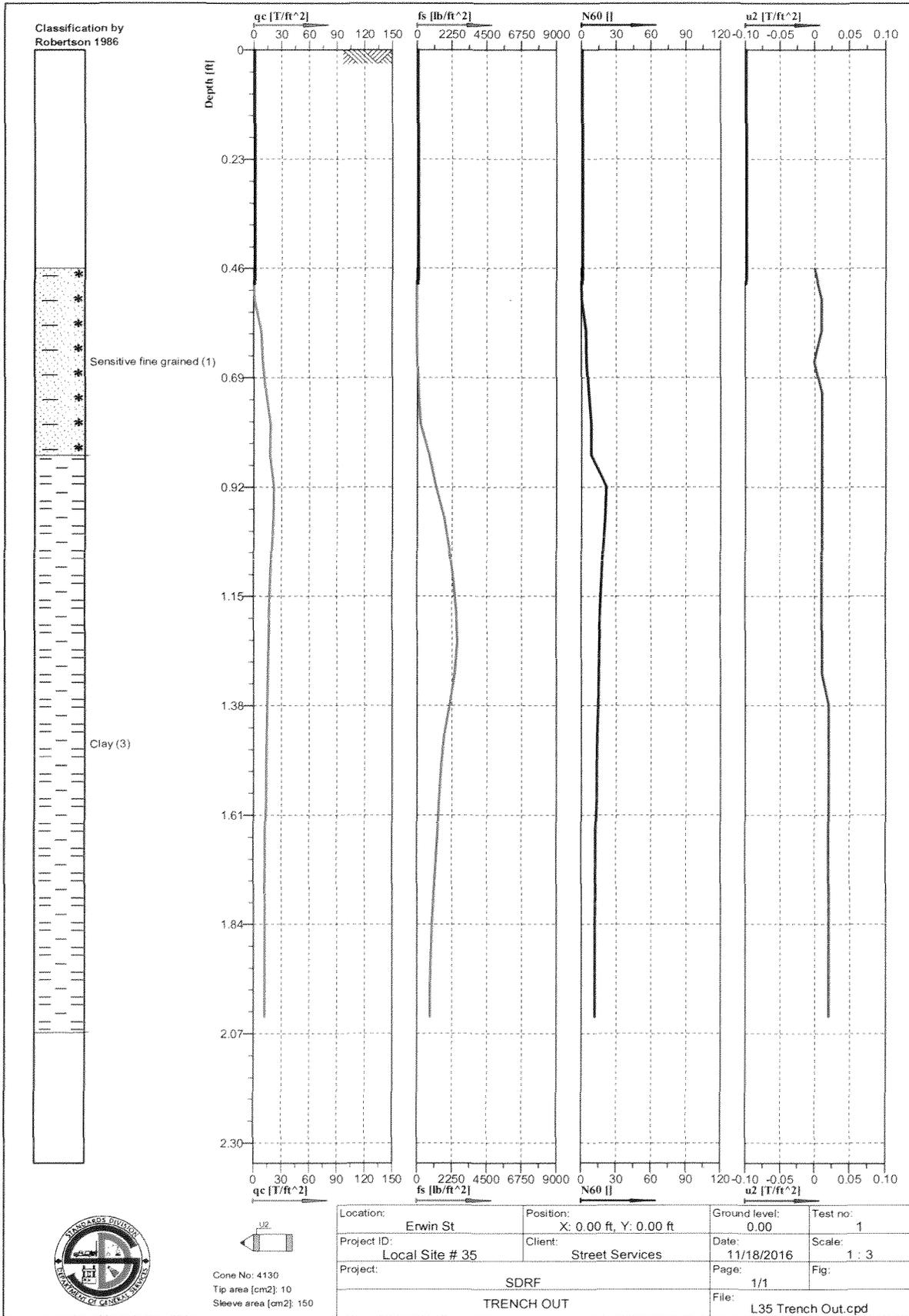
Asphalt thickness = 6.5”.



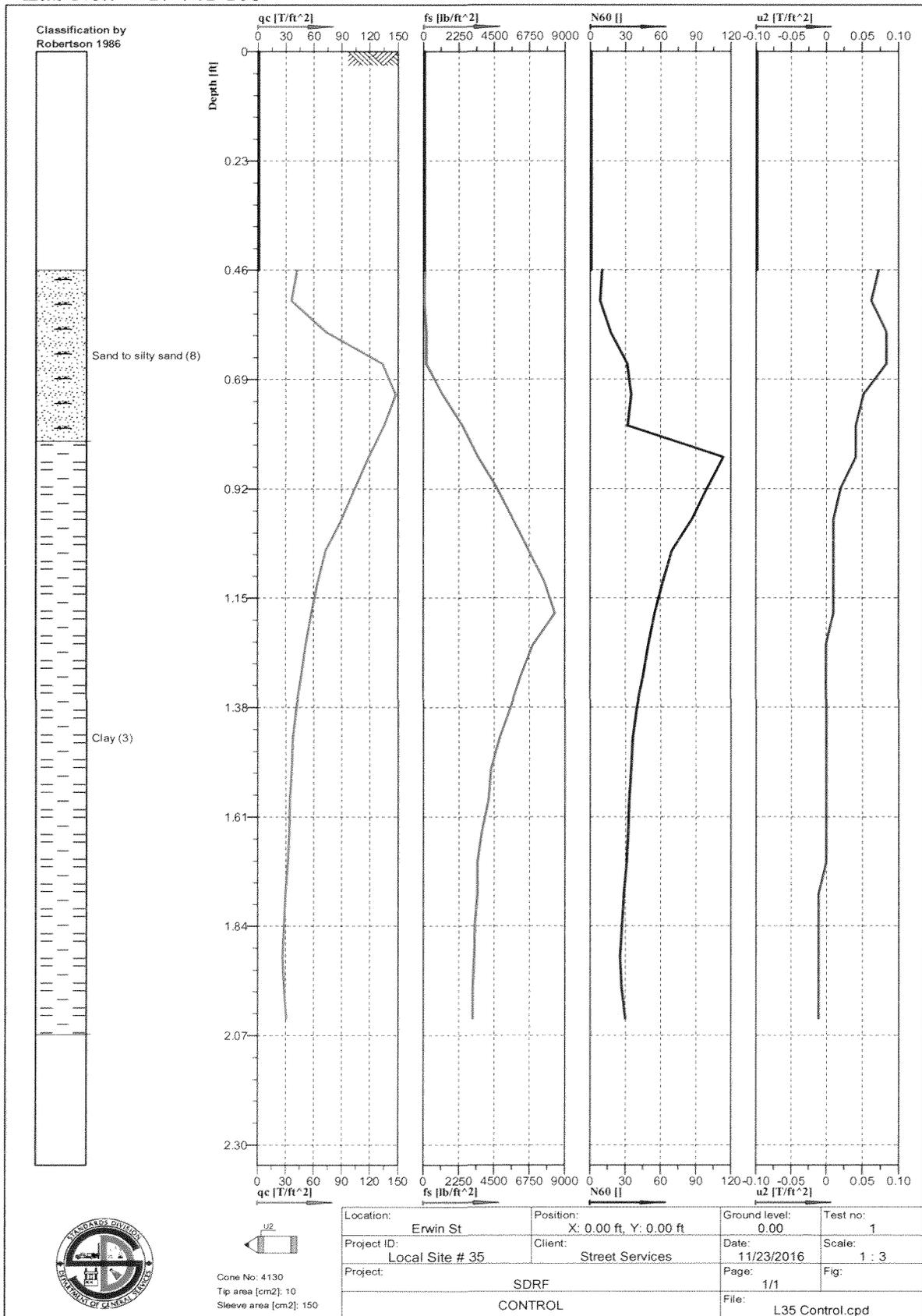
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	Erwin St	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Local Site # 35	Client:	Street Services	Date:	11/23/2016	Scale:	1 : 3
Project:	SDRF		Page:	1/1	Fig:		
TRENCH IN			File:	L35 Trench In.cpd			

Lab No.: 17-741-107



Lab No.: 17-741-108



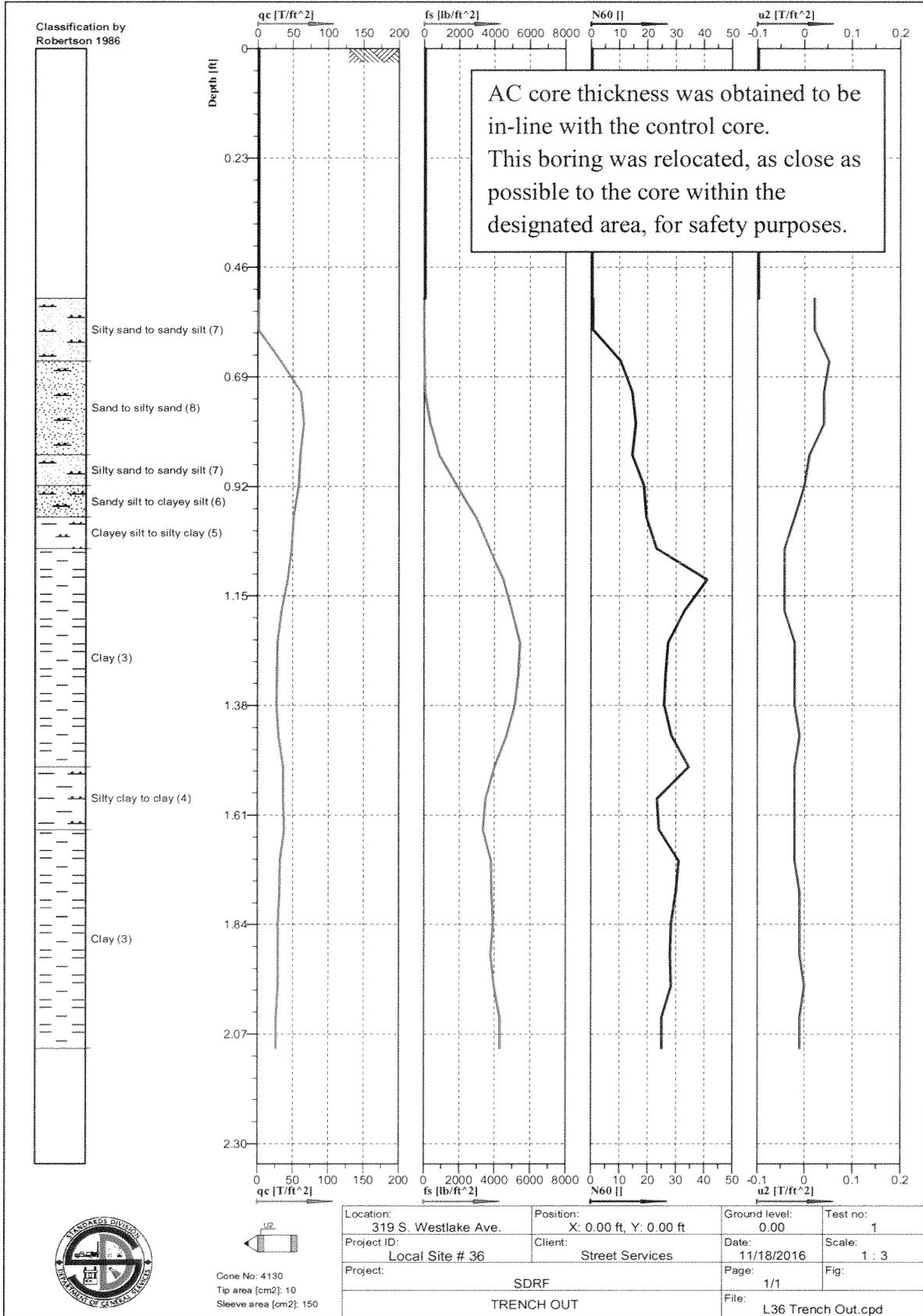
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 3.4”.

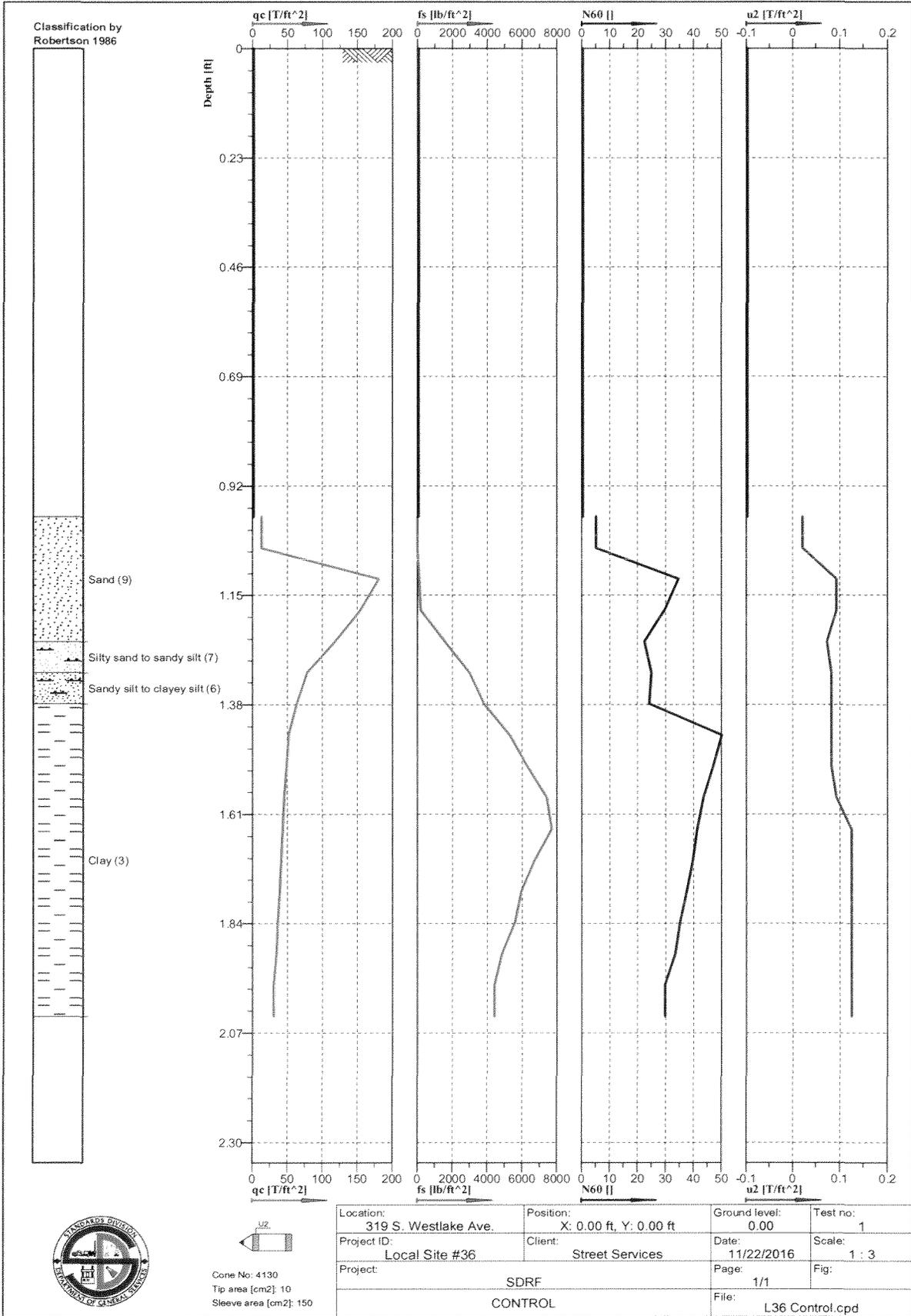


Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

Location: 319 S. Westlake Ave.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #36	Client: Street Services	Date: 11/22/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L36 Trench In.cpd	

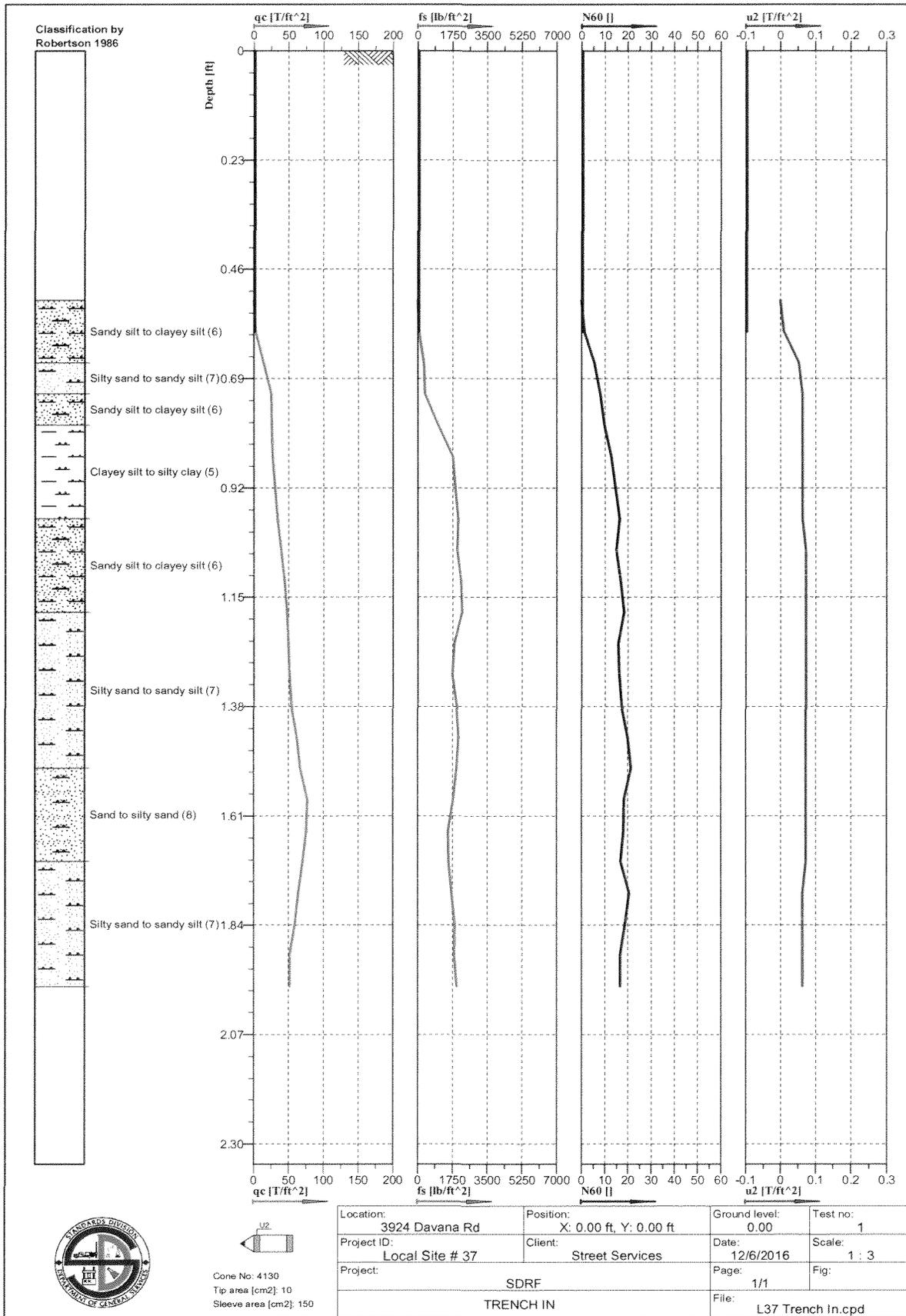


Lab No.: 17-741-111



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

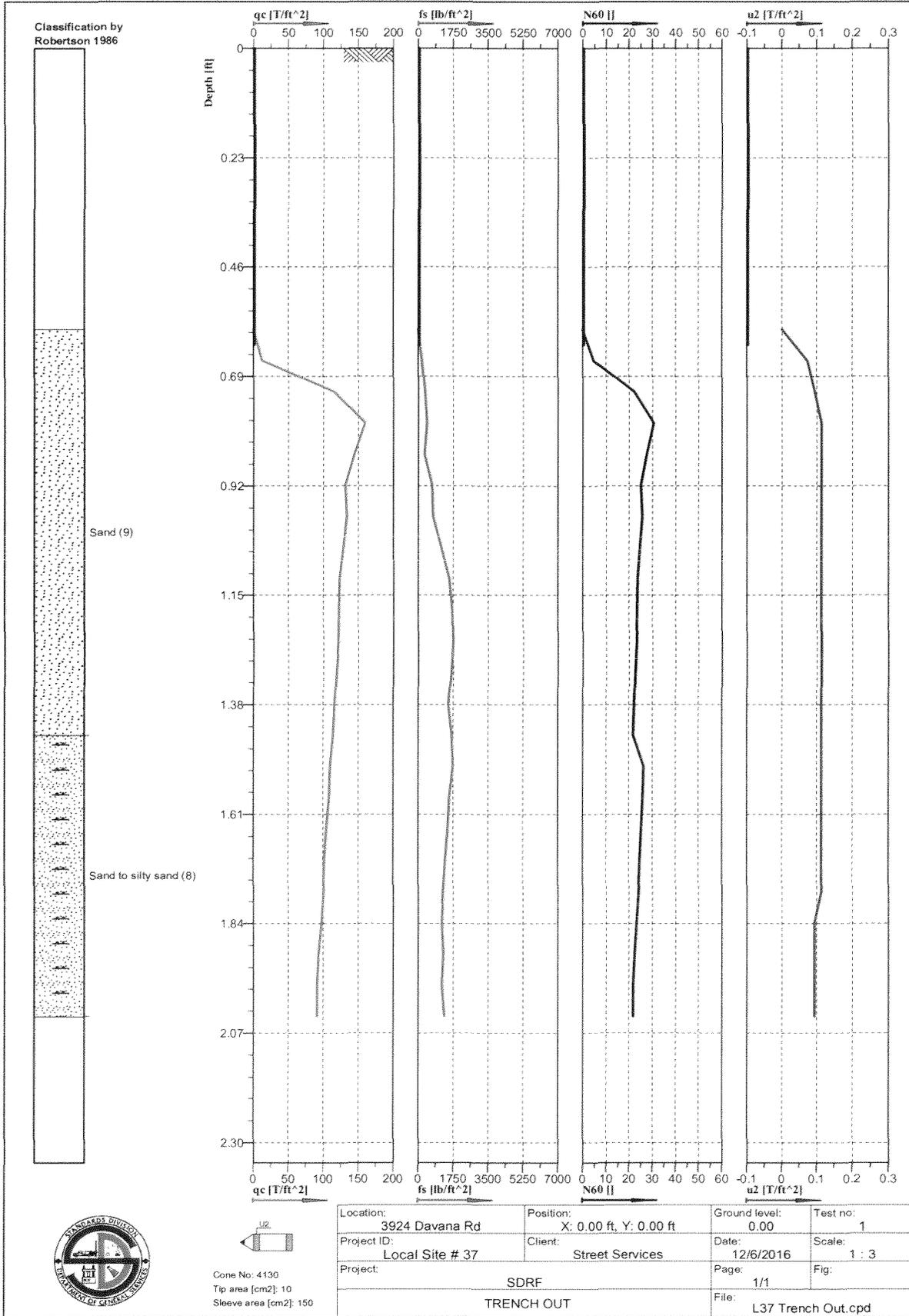
Location: 319 S. Westlake Ave.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site #36	Client: Street Services	Date: 11/22/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: L36 Control.cpd	



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3924 Davana Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 37	Client: Street Services	Date: 12/6/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: L37 Trench In.cpd	

Lab No.: 17-741-113

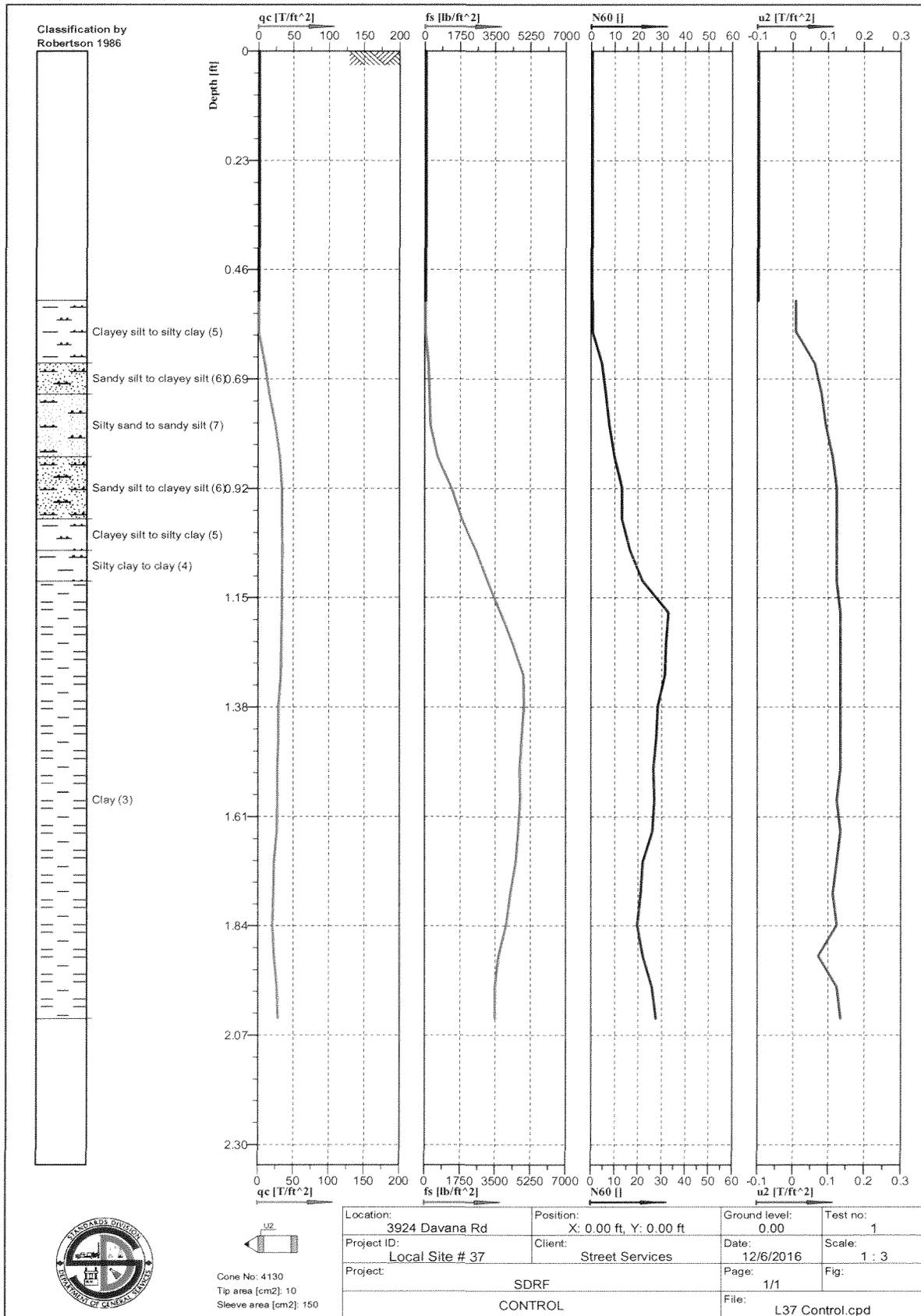


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150



Location: 3924 Davana Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 37	Client: Street Services	Date: 12/6/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: L37 Trench Out.cpd	

Lab No.: 17-741-114



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3924 Davana Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 37	Client: Street Services	Date: 12/6/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: L37 Control.cpd	

Lab No.: 17-741-115

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

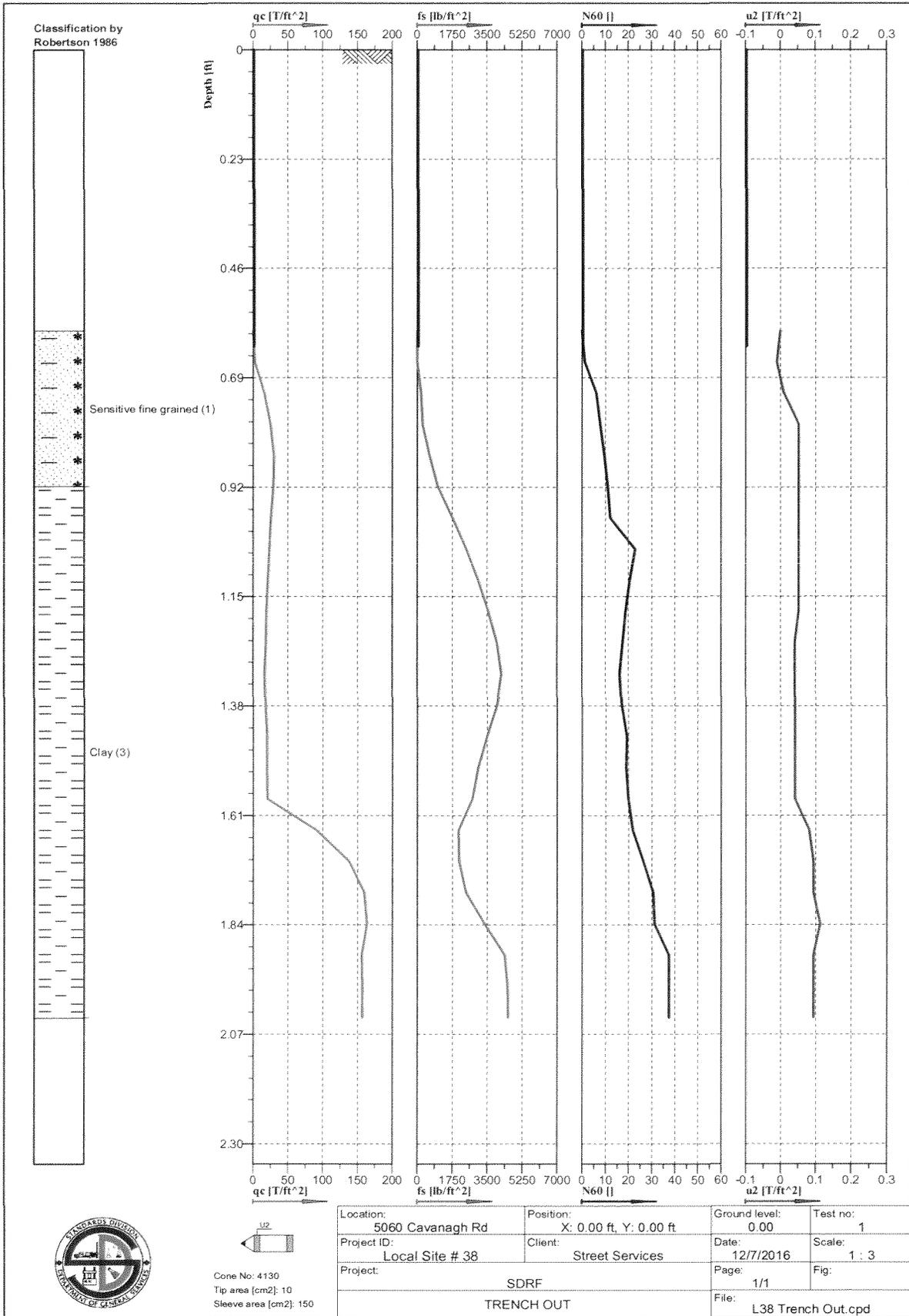
Asphalt thickness = 3.5”.



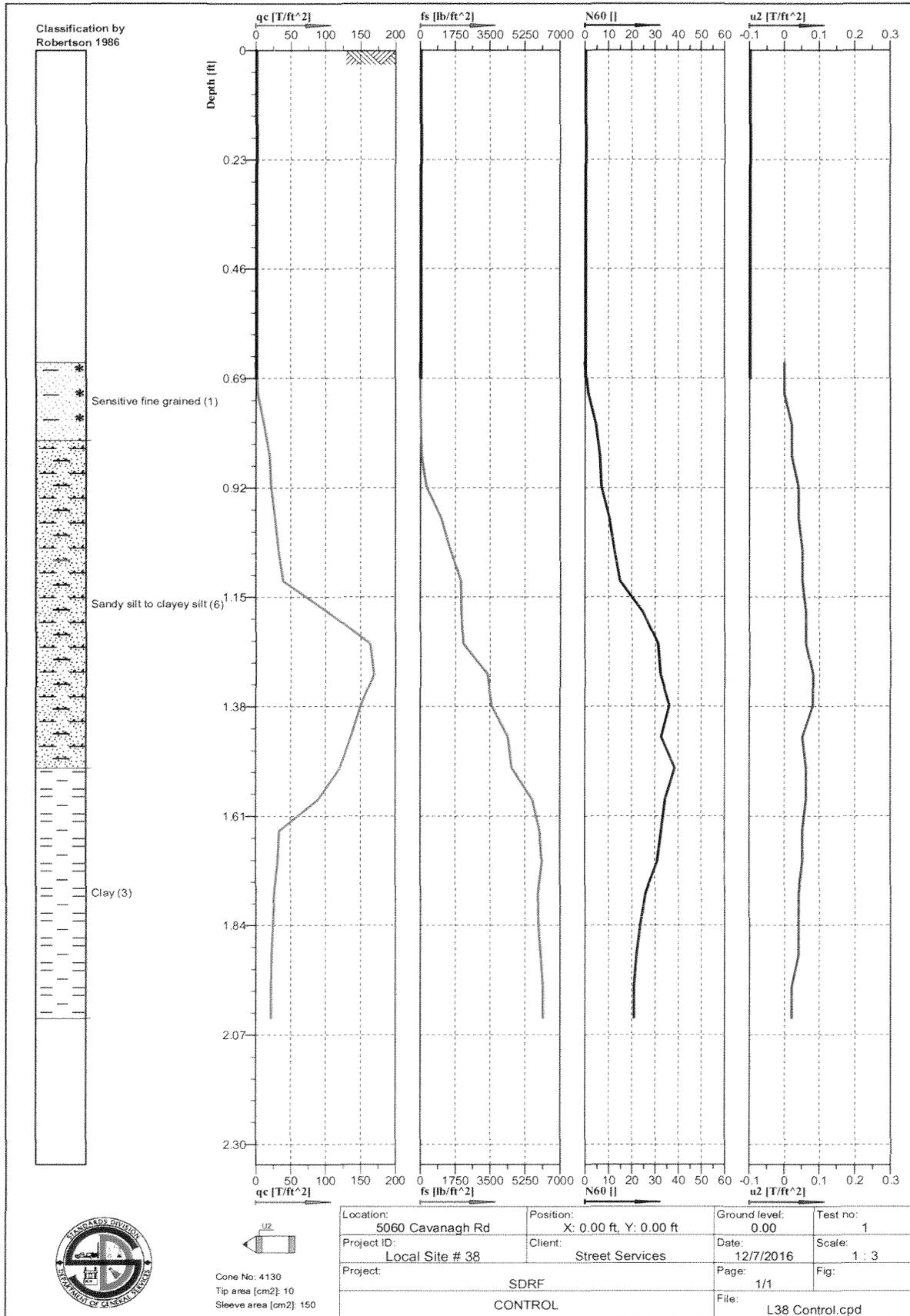
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

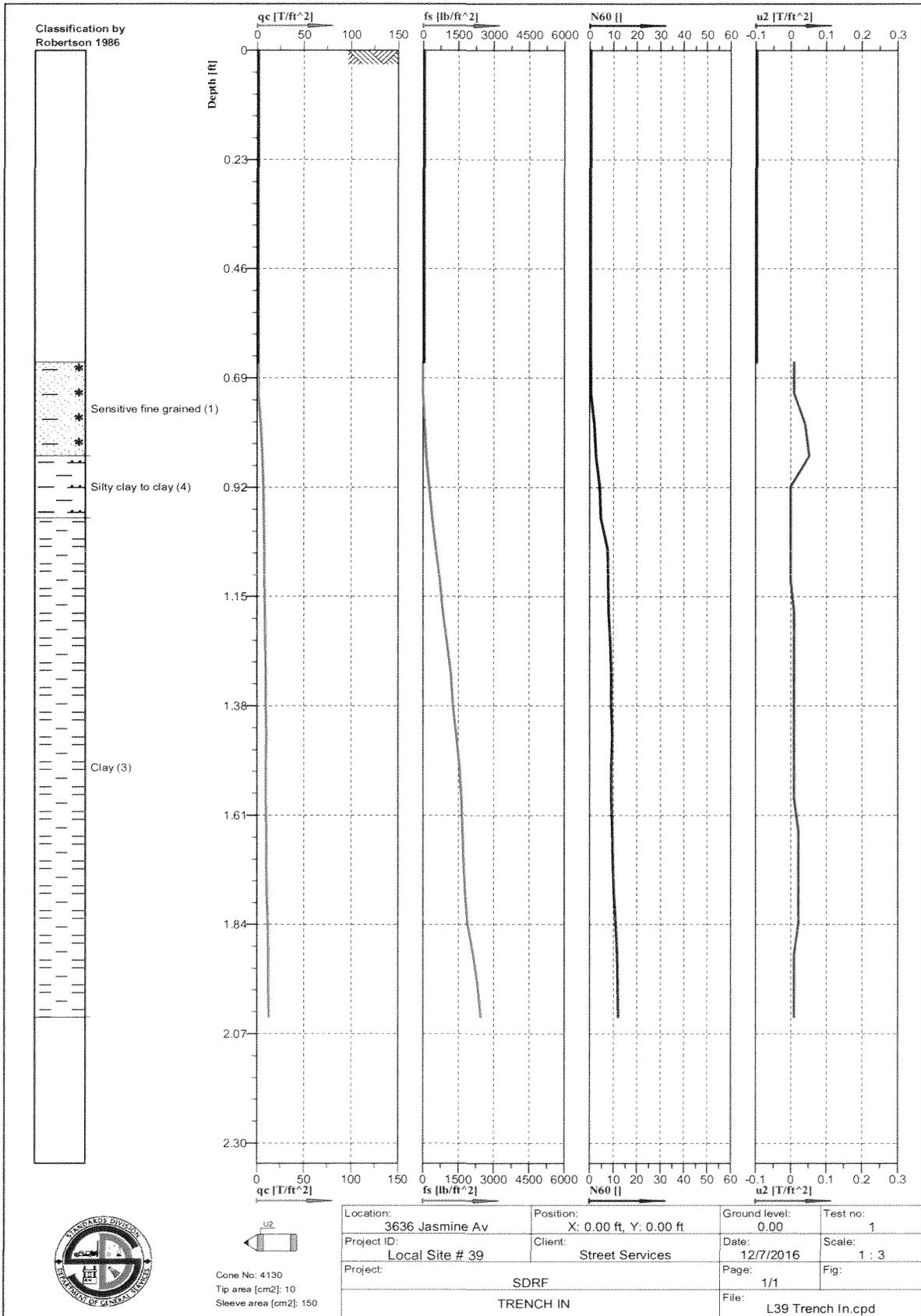
Location: 5060 Cavanagh Rd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Local Site # 38	Client: Street Services	Date: 12/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: L38 Trench In.cpd	

Lab No.: 17-741-116

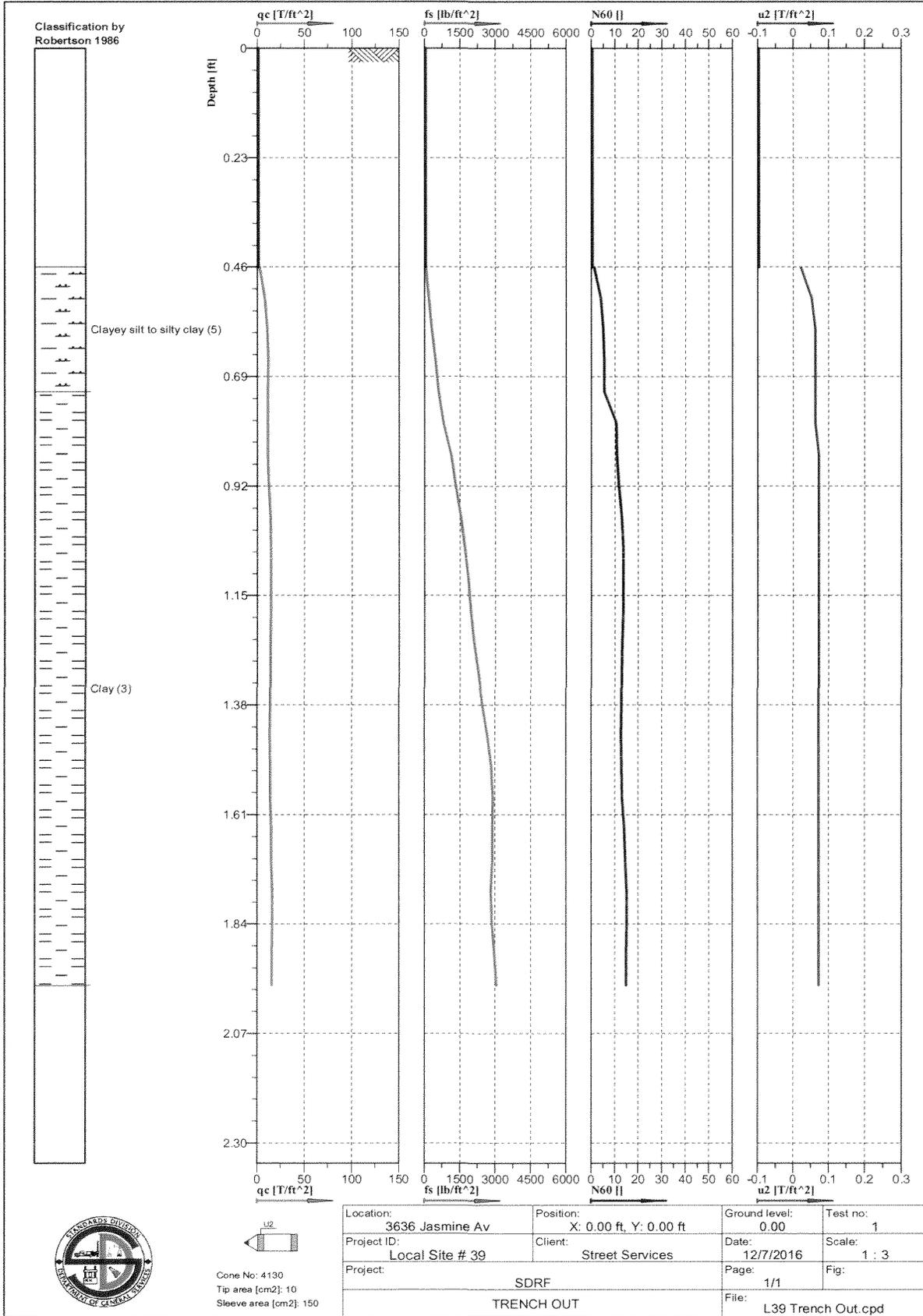


Lab No.: 17-741-117

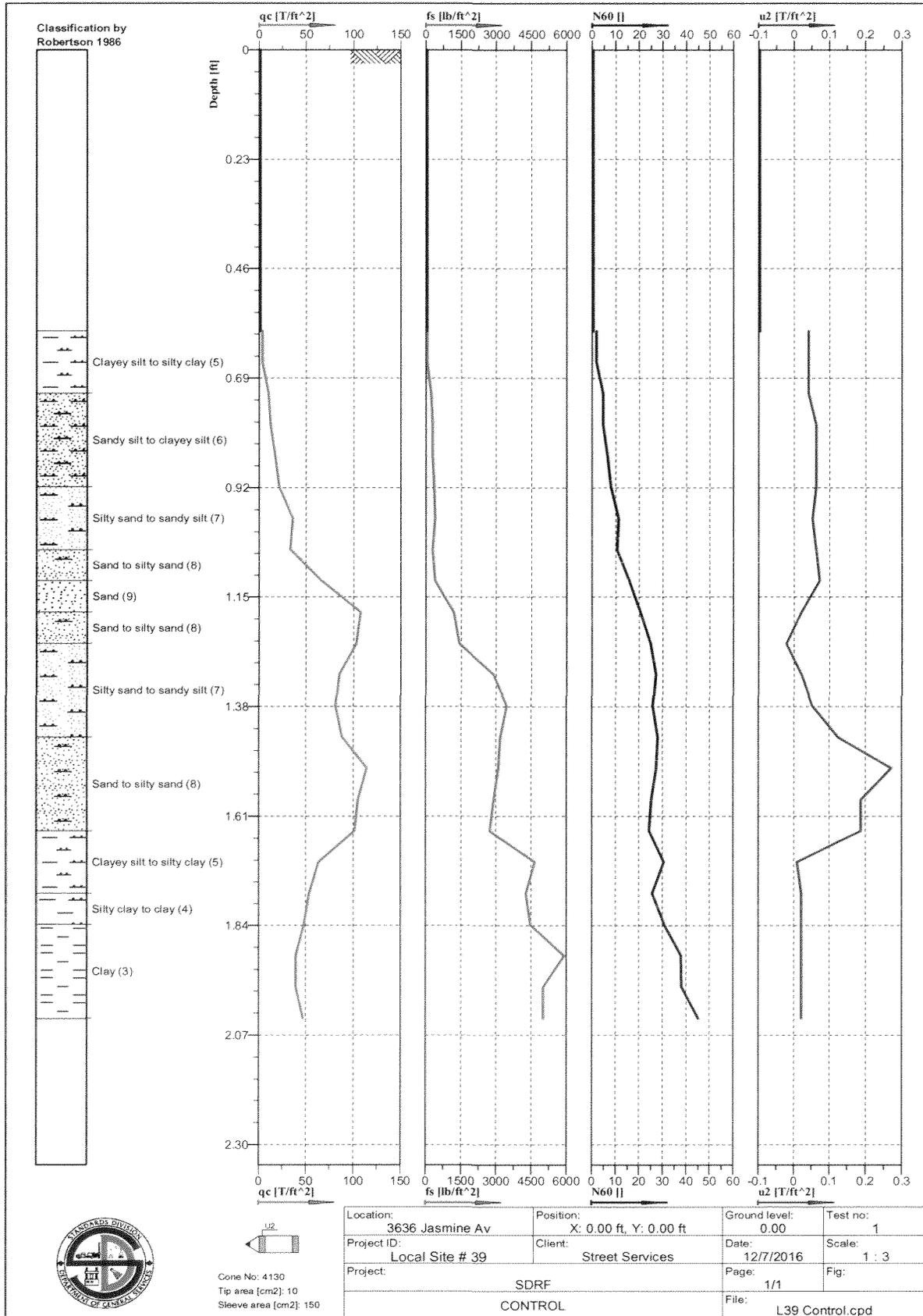




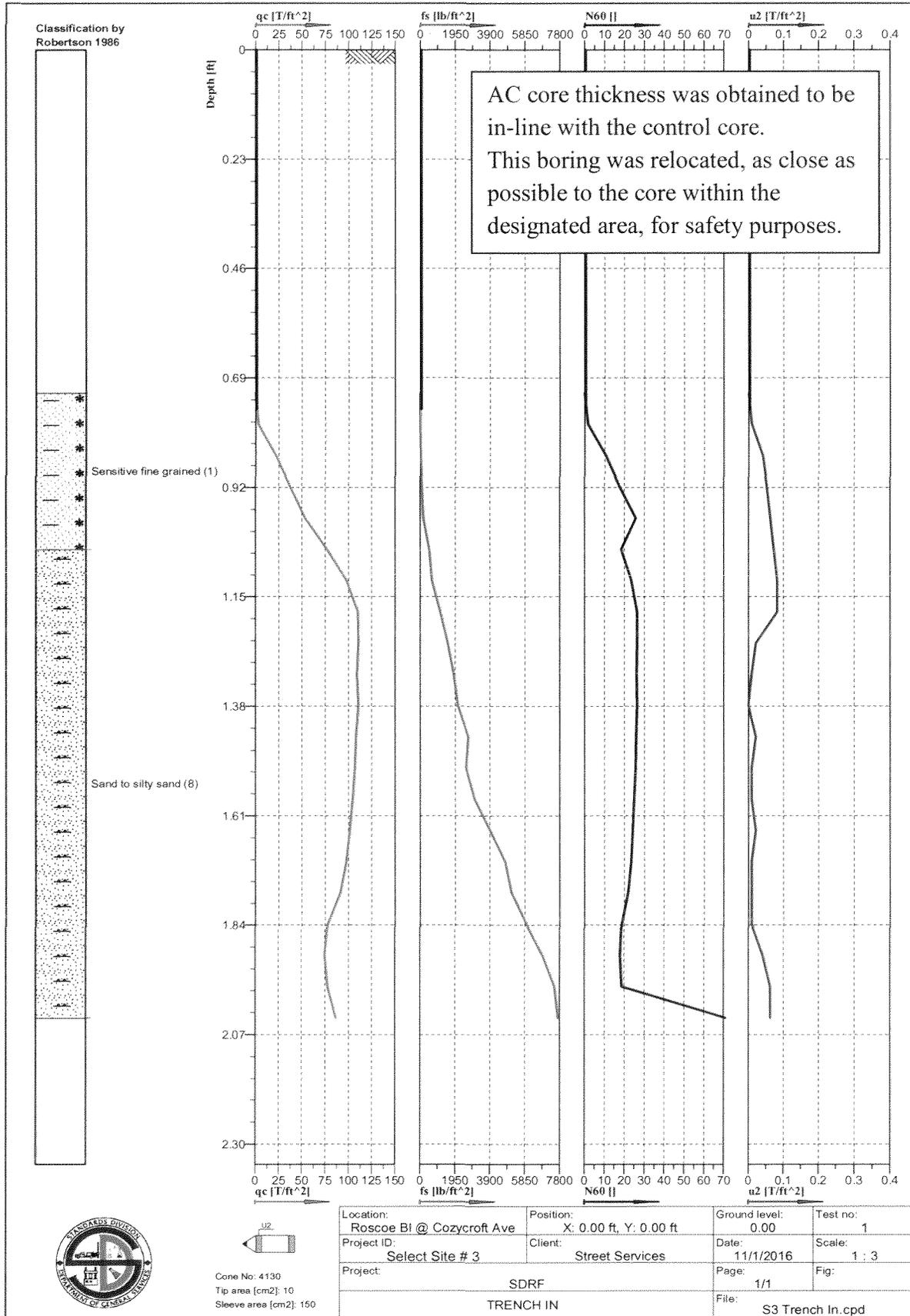
Lab No.: 17-741-119

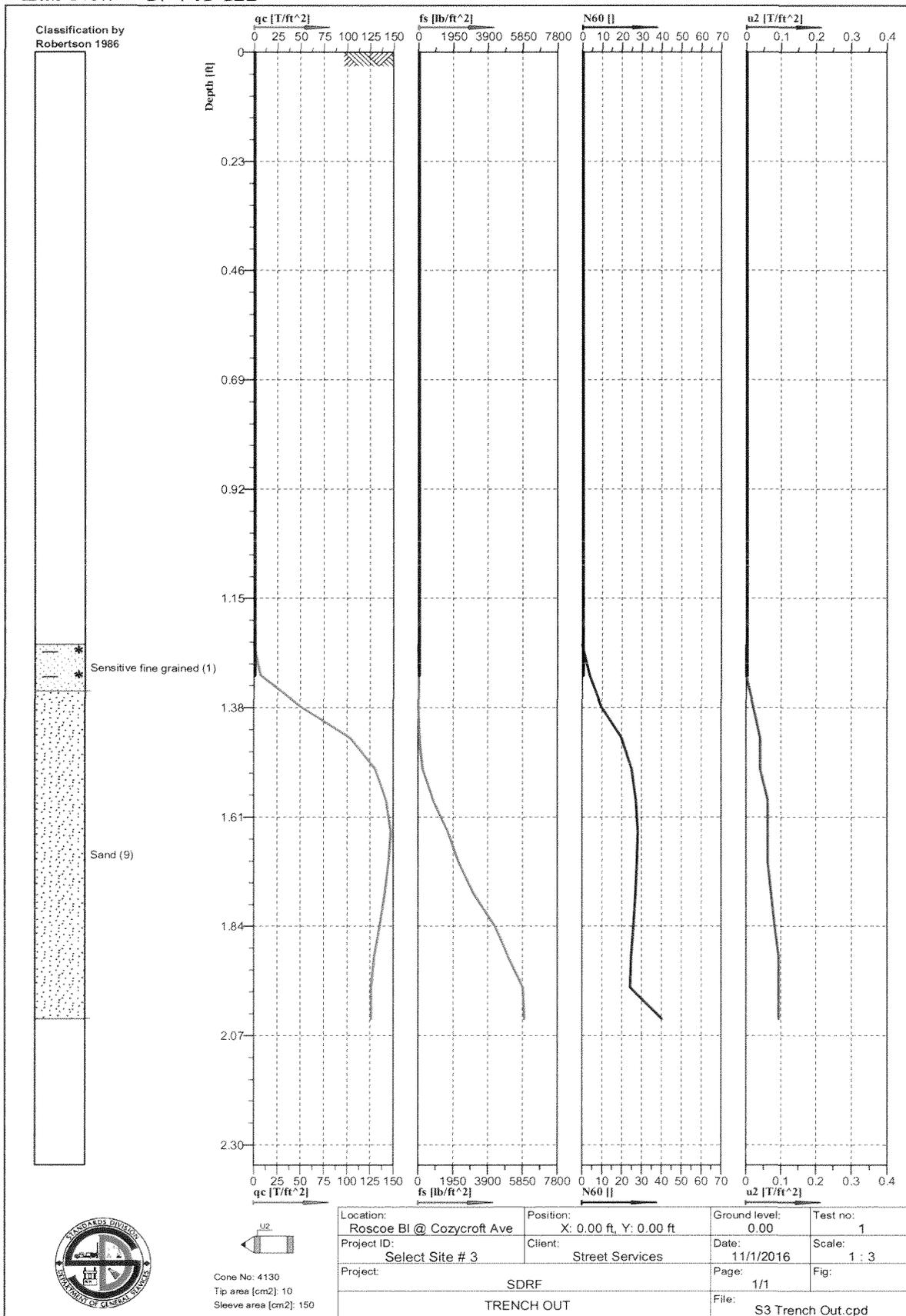


Lab No.: 17-741-120



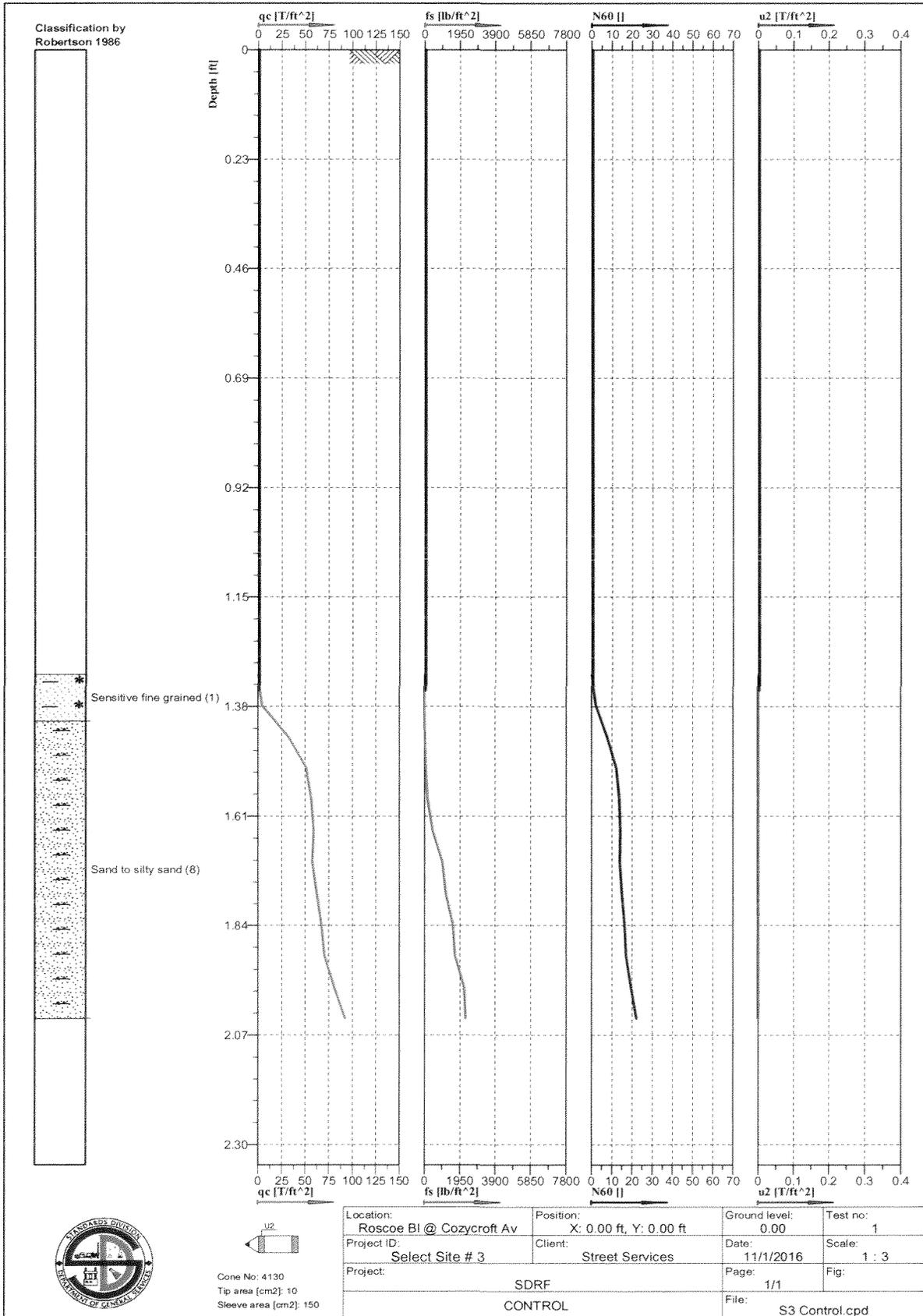
Lab No.: 17-741-121





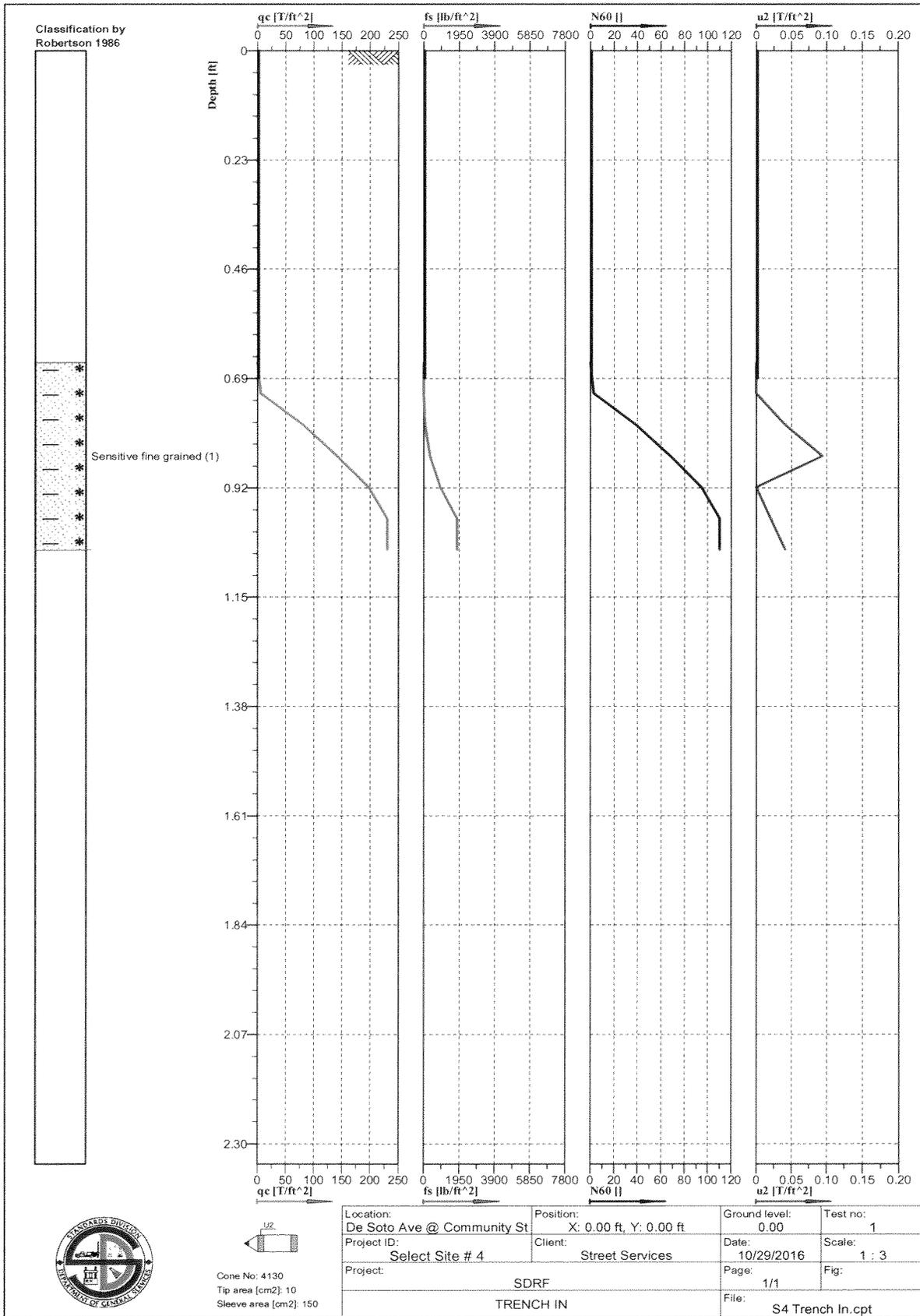
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-123

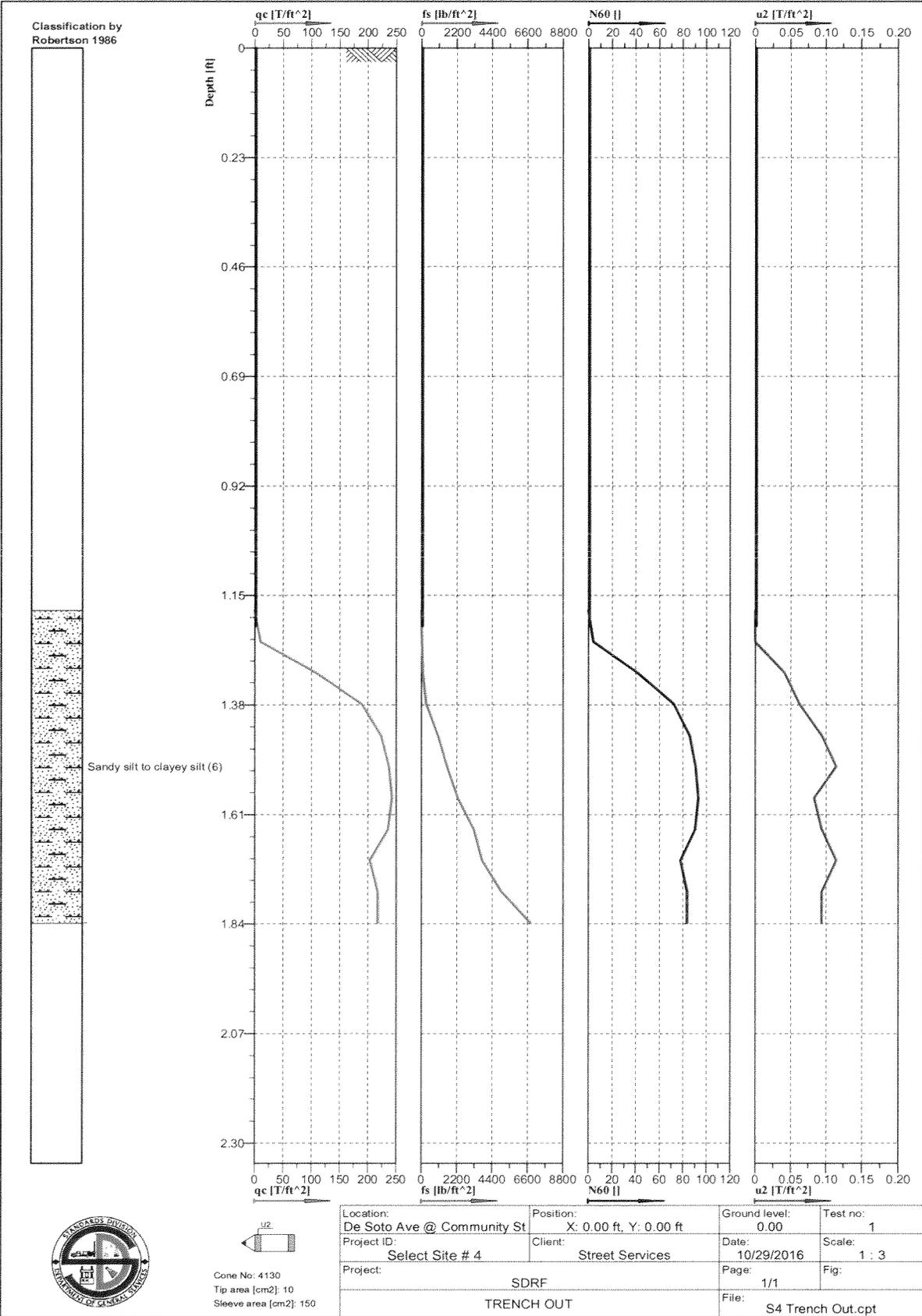


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

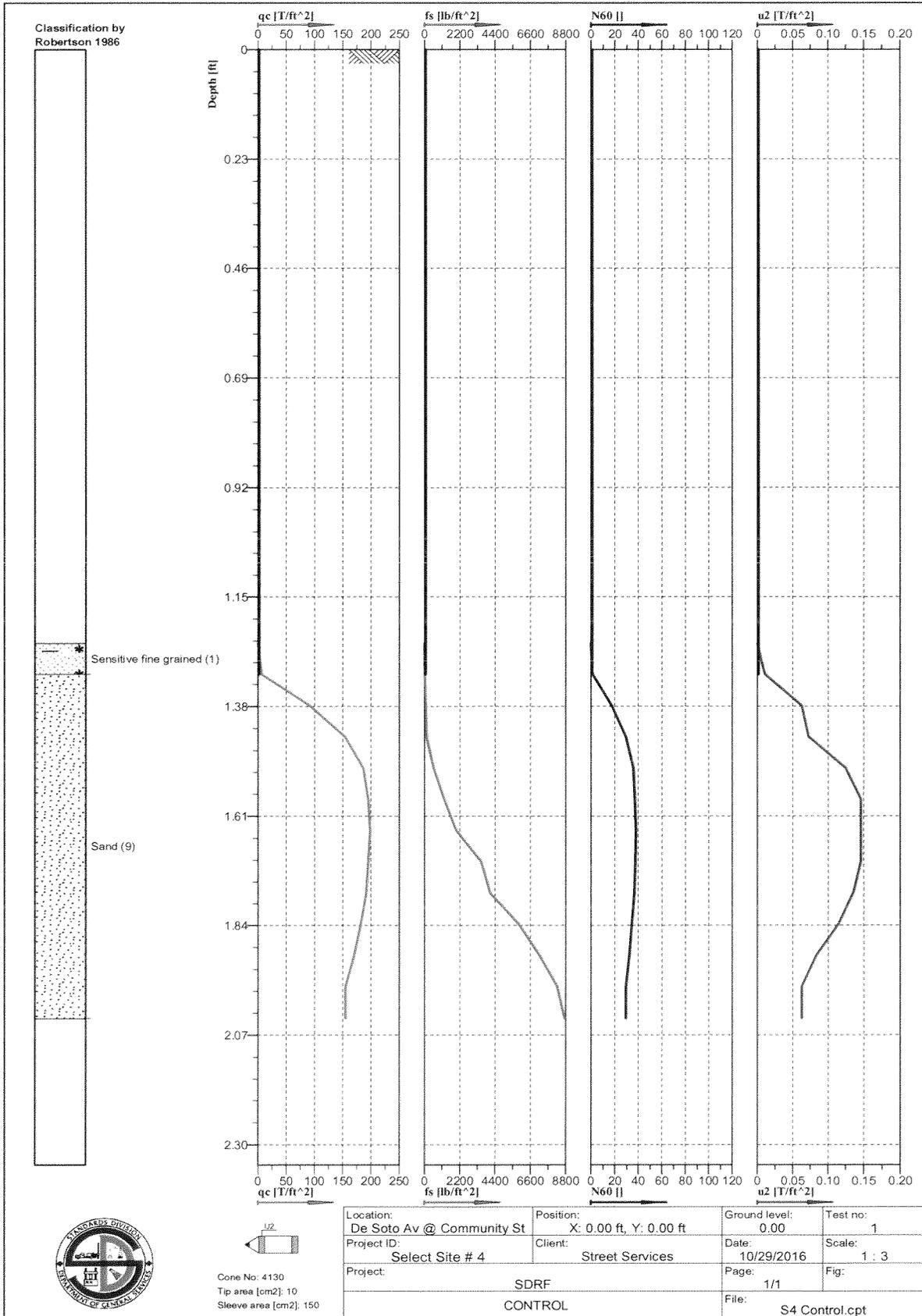
Lab No.: 17-741-124



Lab No.: 17-741-125



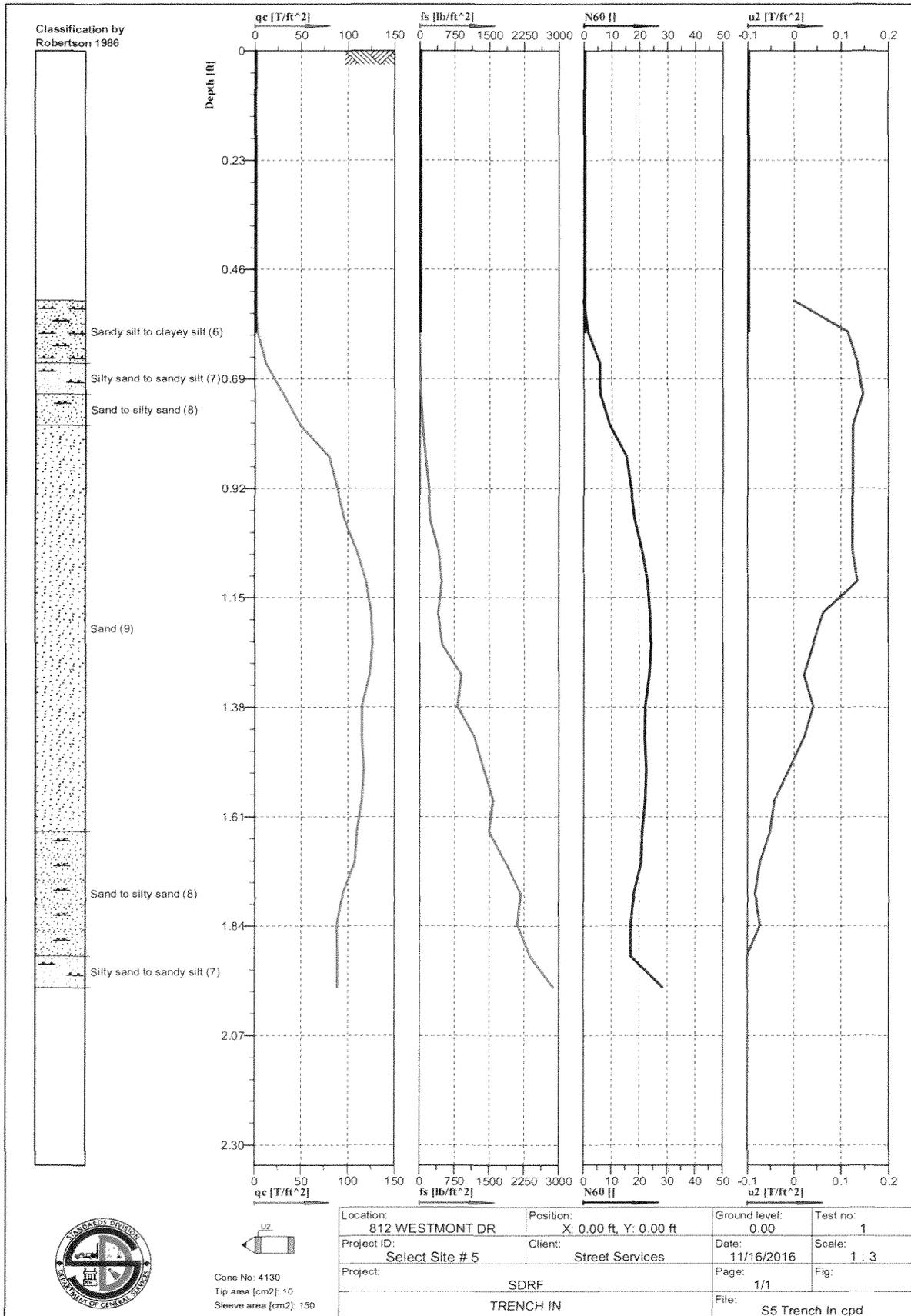
Lab No.: 17-741-126

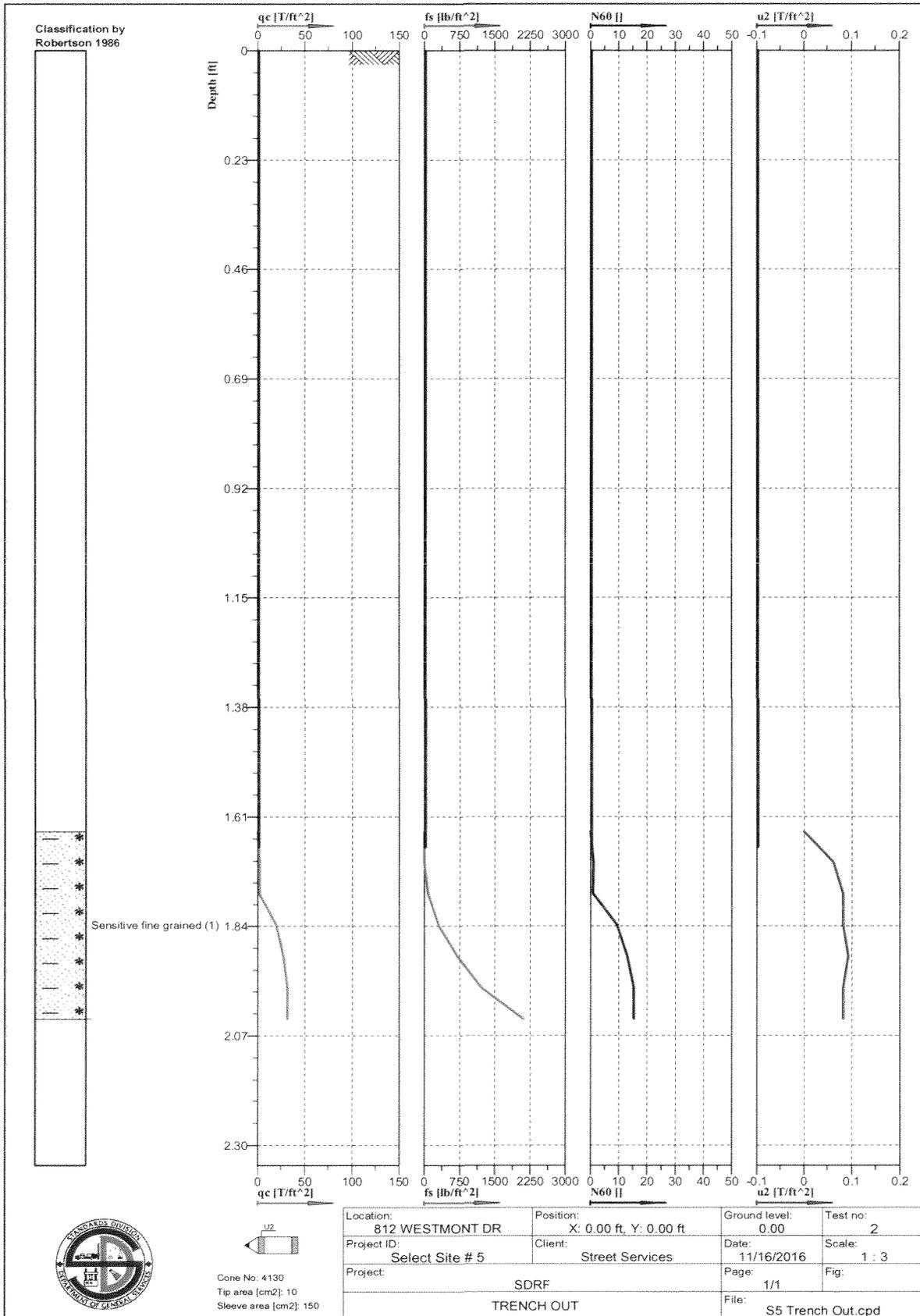


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

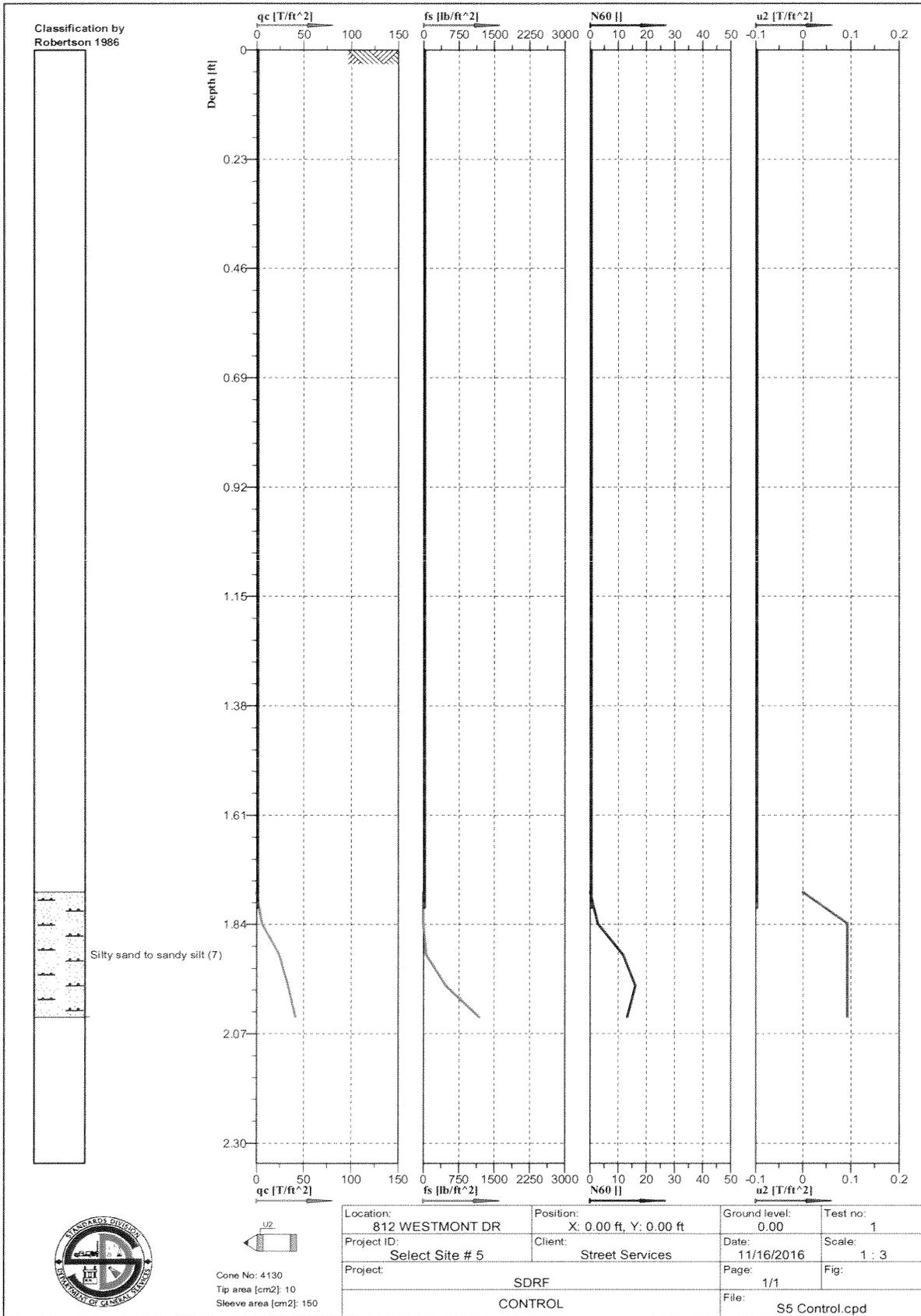
Location: De Soto Av @ Community St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 4	Client: Street Services	Date: 10/29/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S4 Control.cpt	

Lab No.: 17-741-127

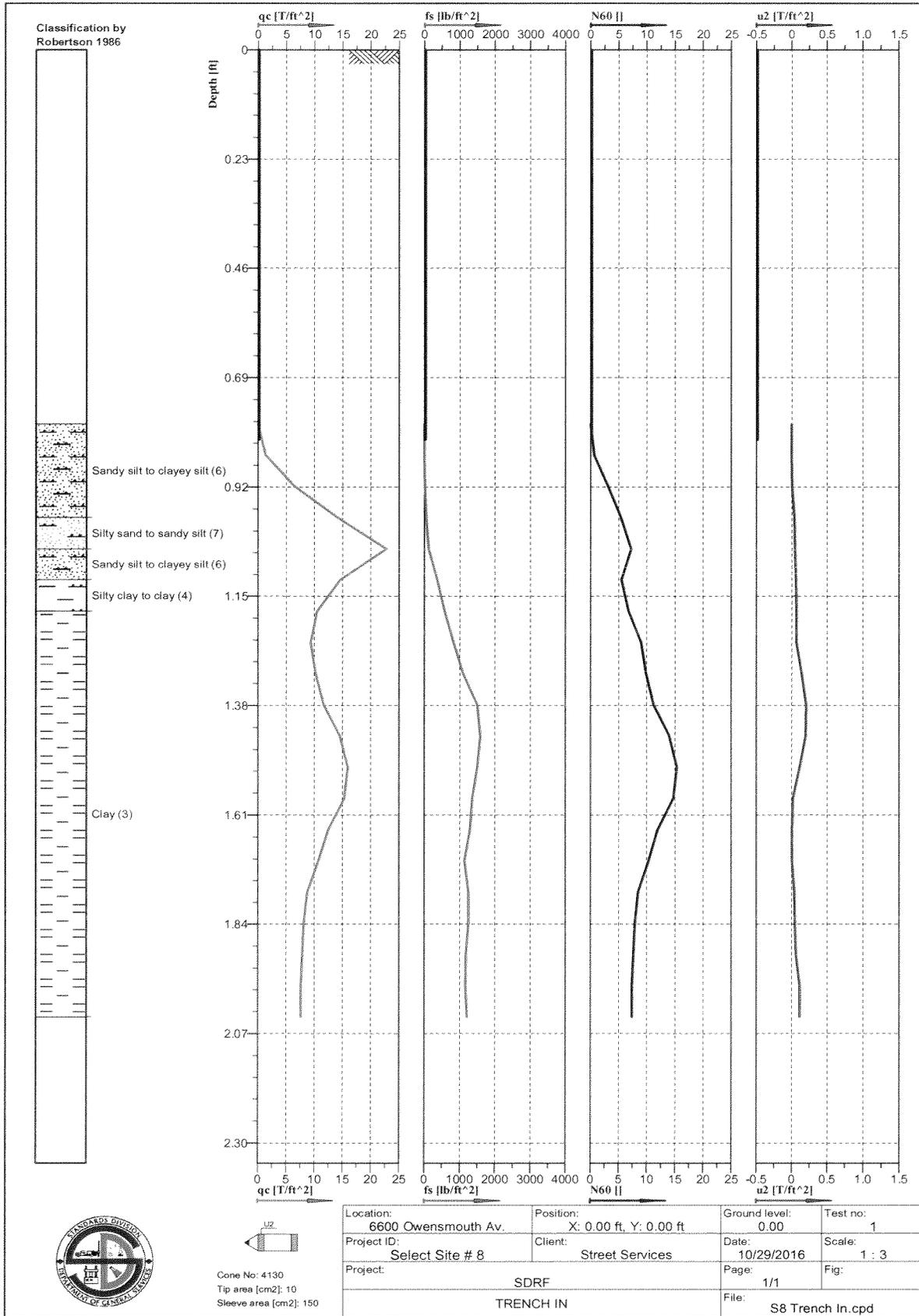




Lab No.: 17-741-129



Lab No.: 17-741-130

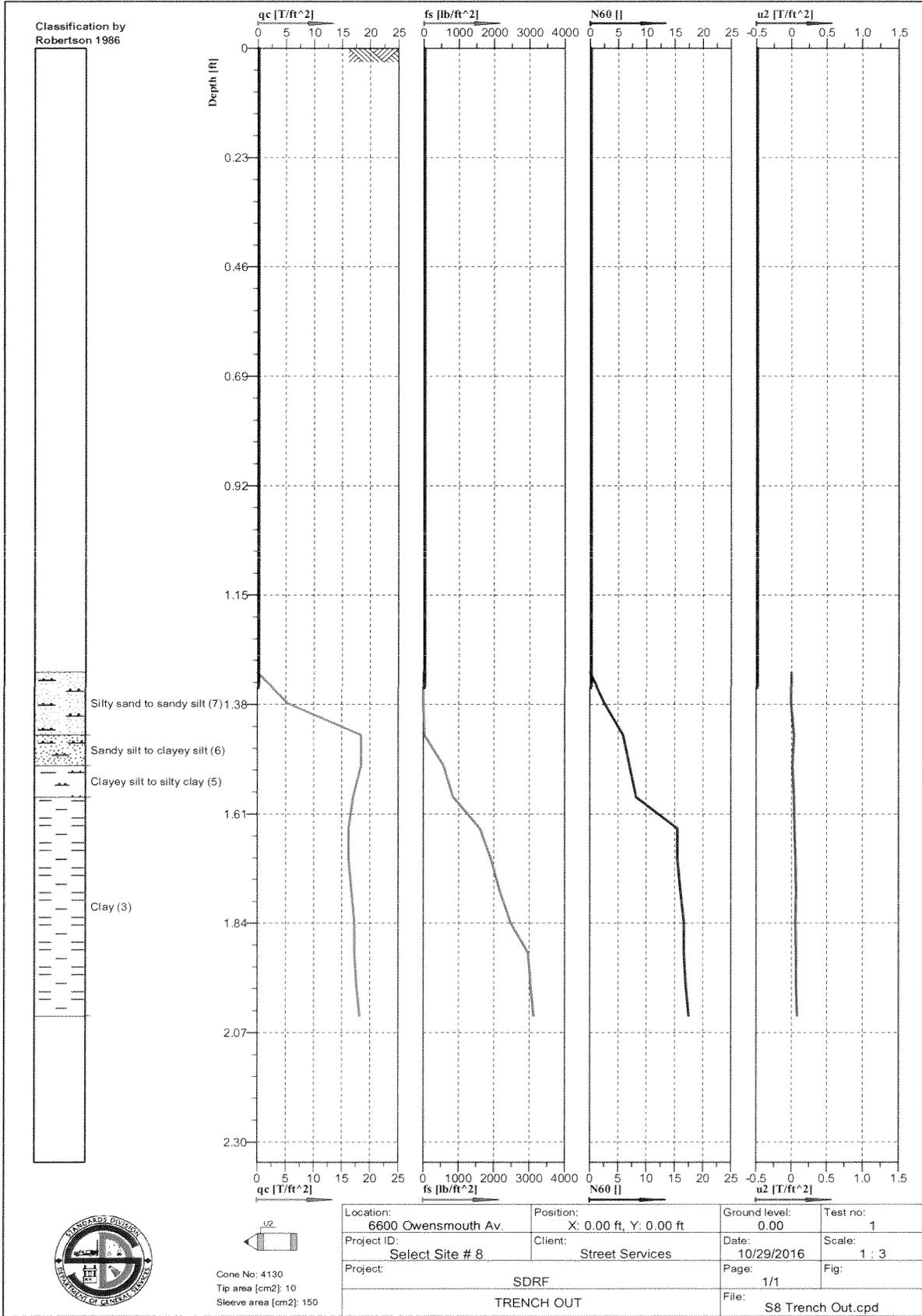


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

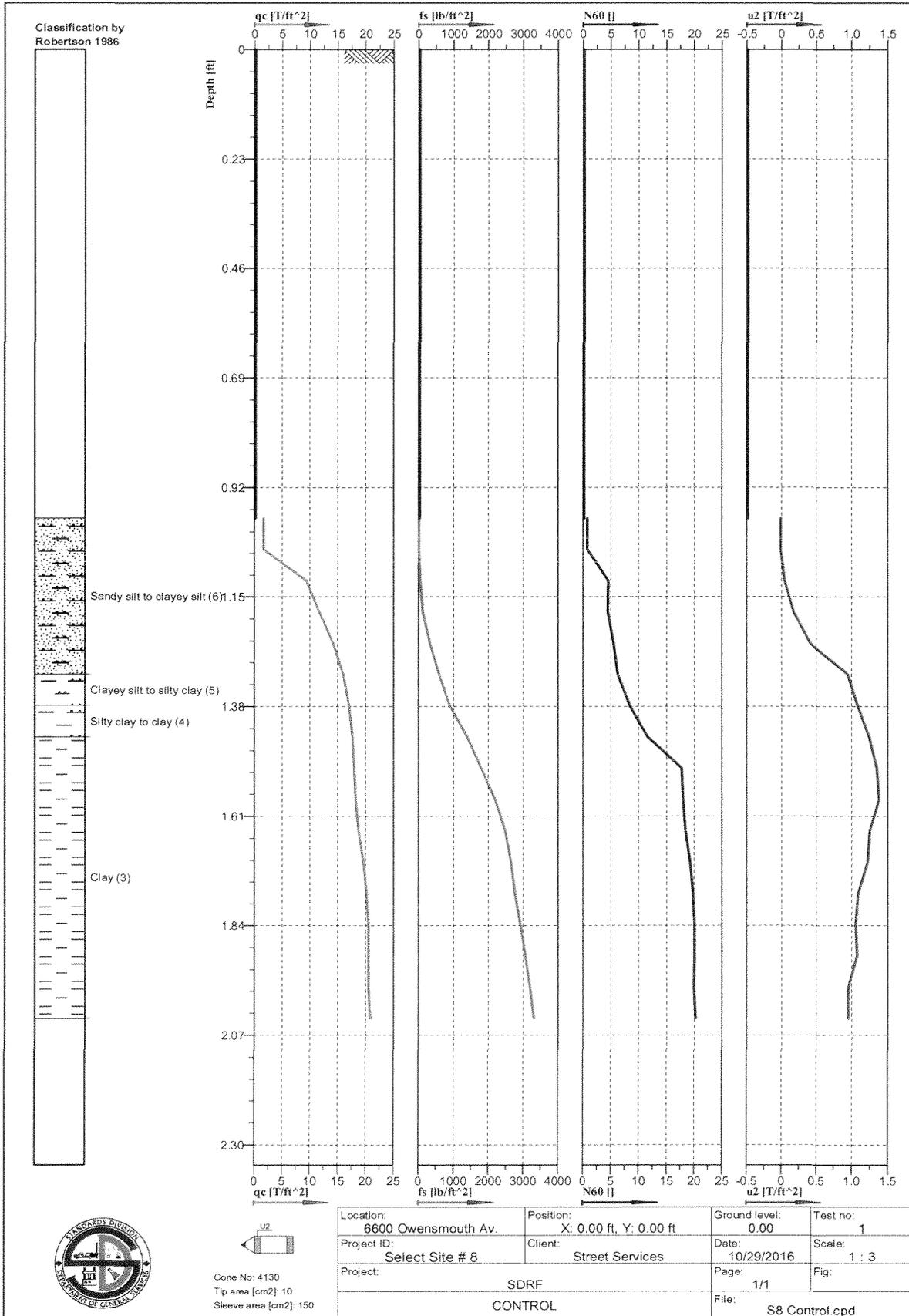


Location: 6600 Owensmouth Av.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 8	Client: Street Services	Date: 10/29/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH IN		File: S8 Trench In.cpd	

Lab No.: 17-741-131

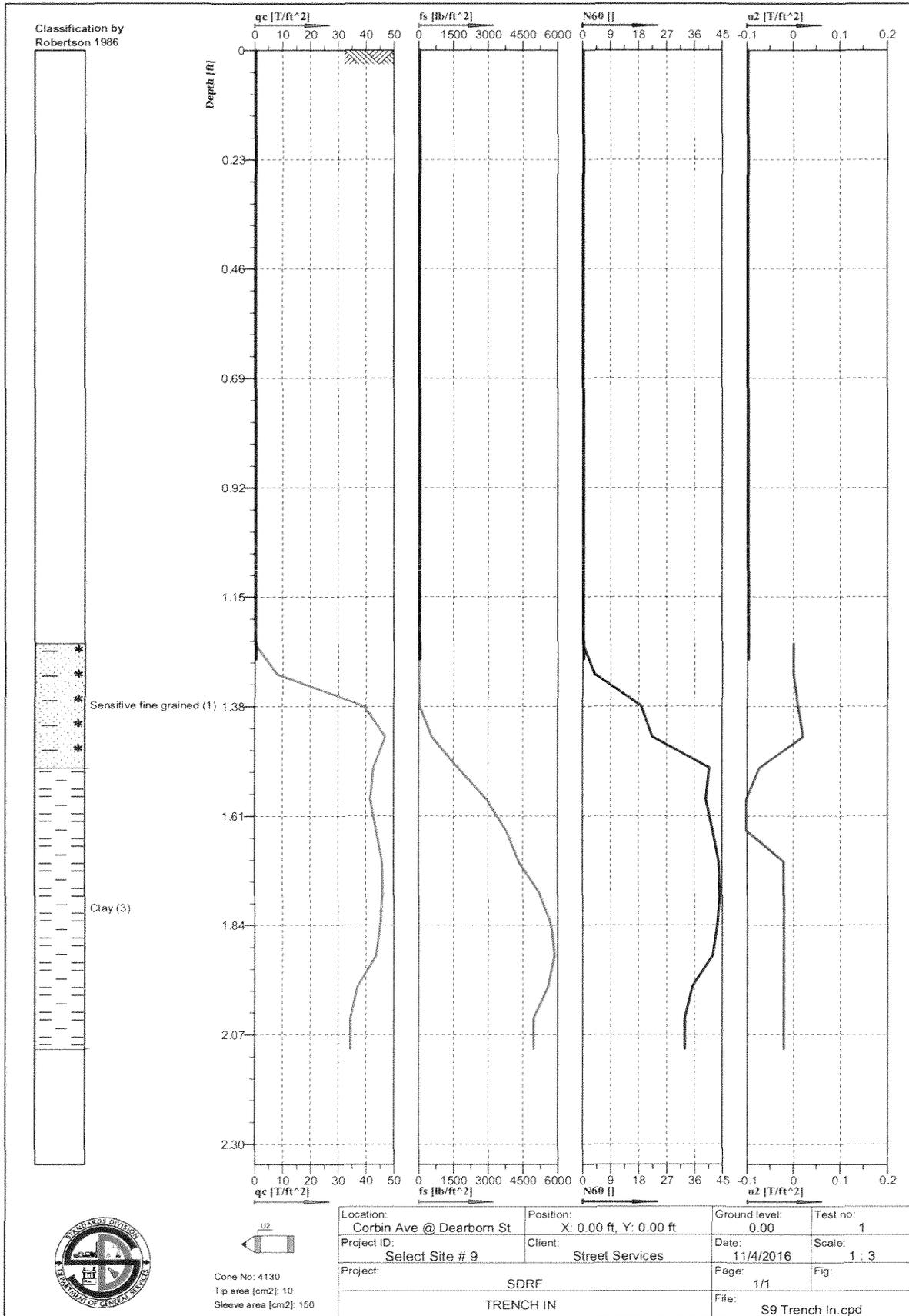


Lab No.: 17-741-132



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

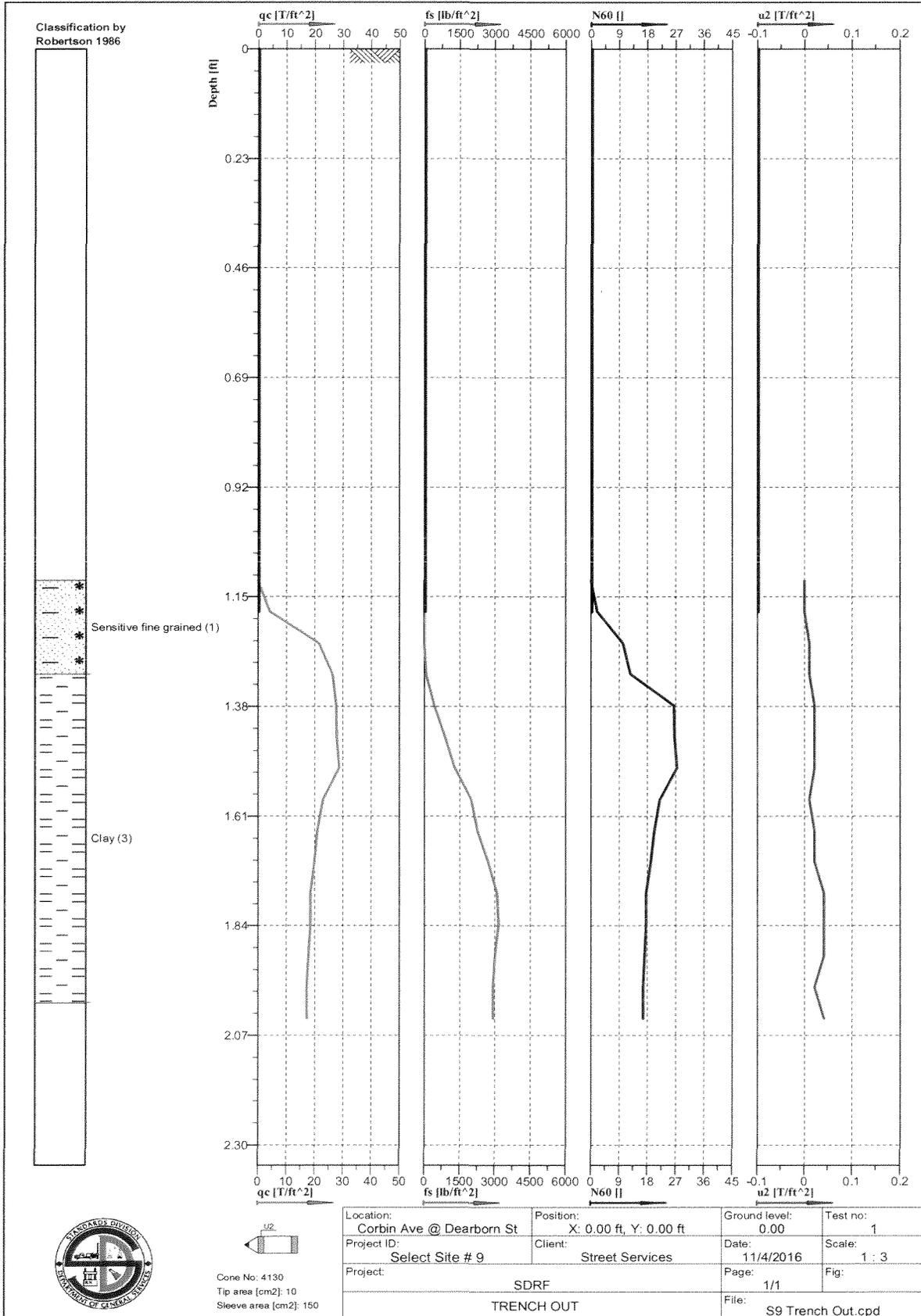
Lab No.: 17-741-133



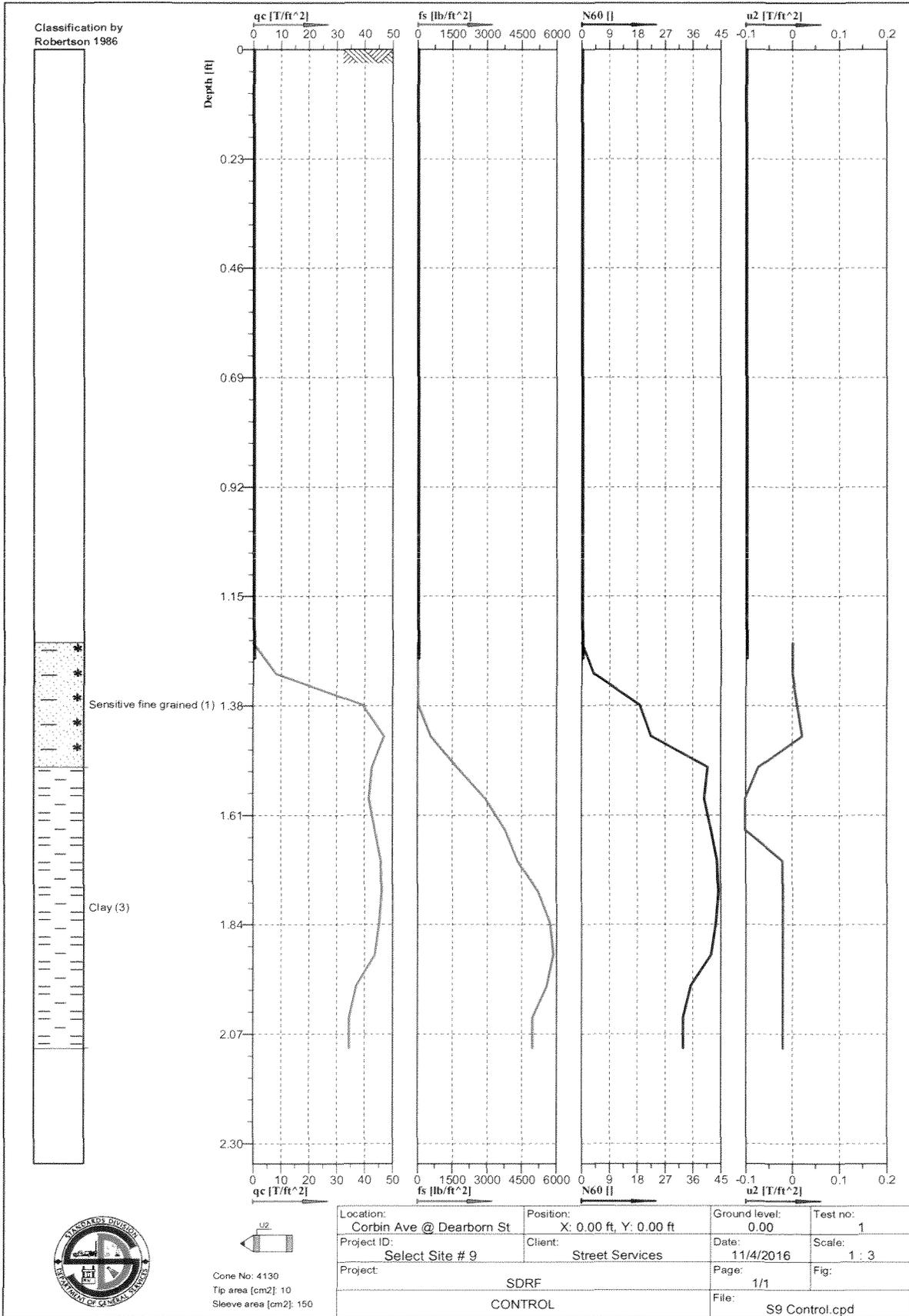
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Corbin Ave @ Dearborn St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 9	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH IN		File: S9 Trench In.cpd	

Lab No.: 17-741-134



Lab No.: 17-741-135



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Trench backfill consists of cemented sand. No CPTU performed in this trench.

Asphalt thickness = 6.4”.

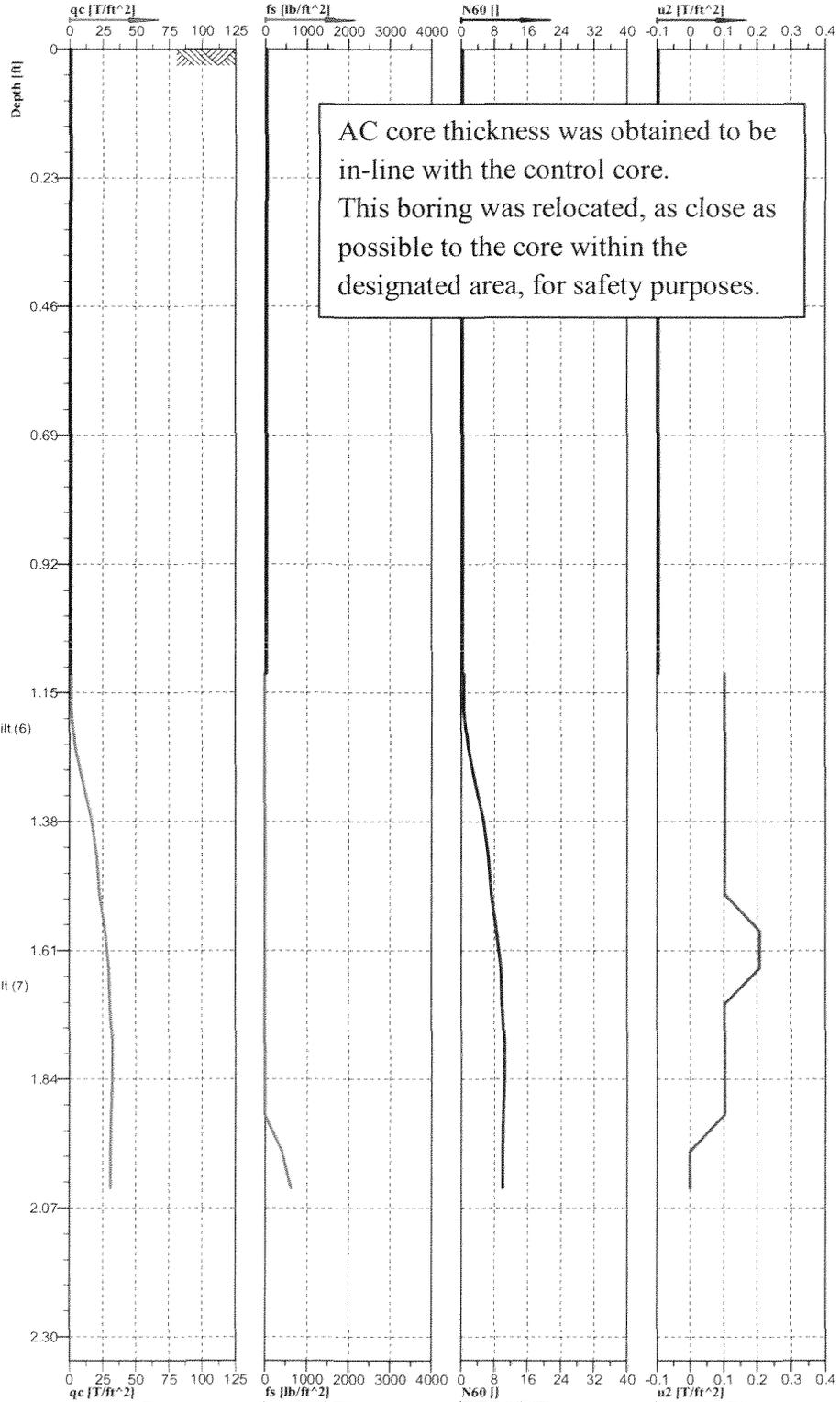
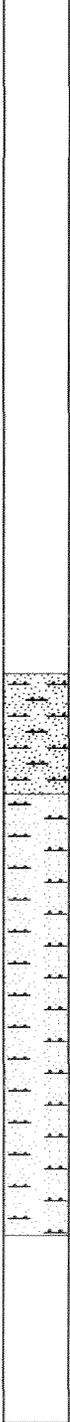


Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

Location: 18011 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 10	Client: Street Services	Date: 11/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S10 Trench In.cpd	

Lab No.: 17-741-137

Classification by
Robertson 1986



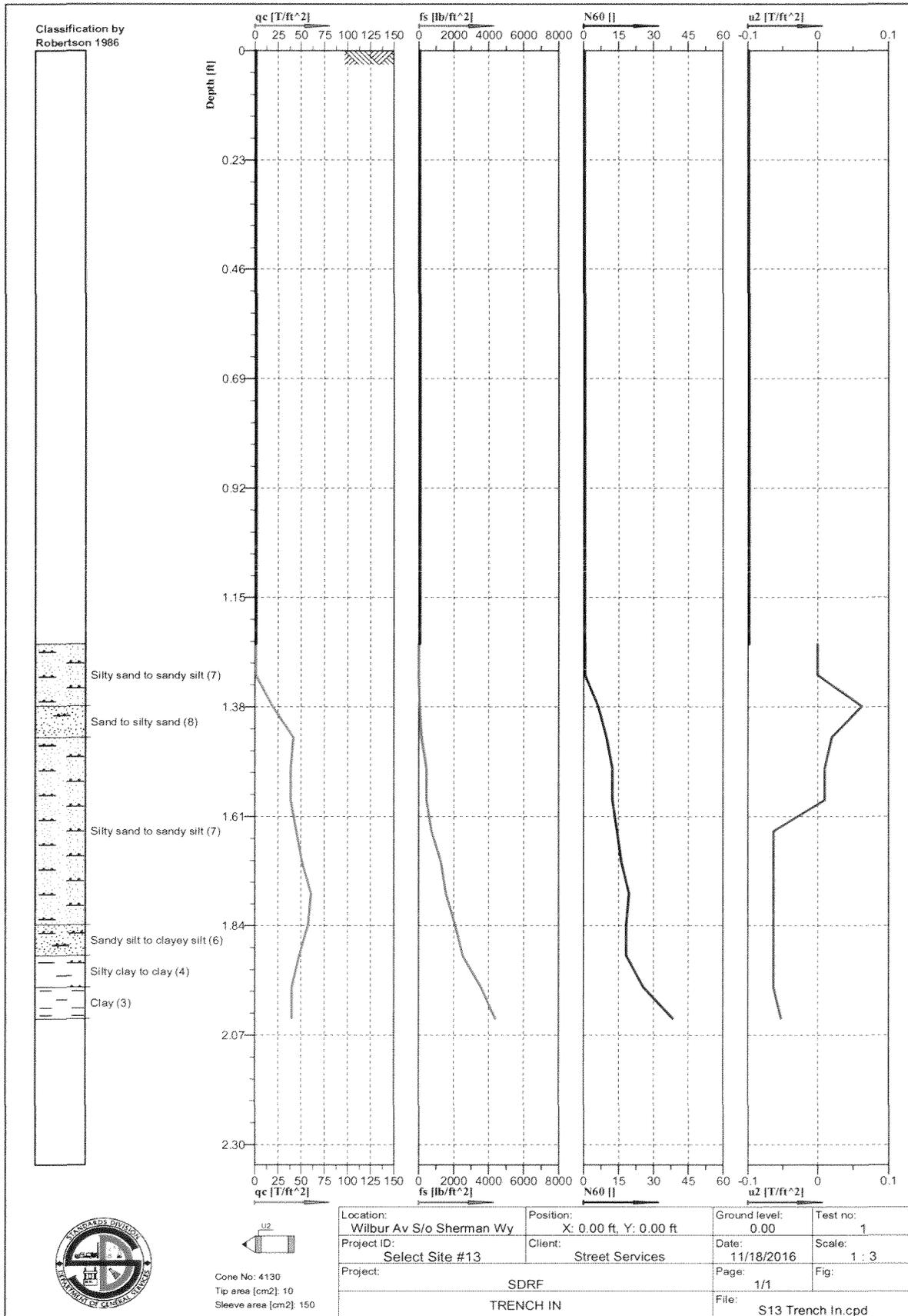
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

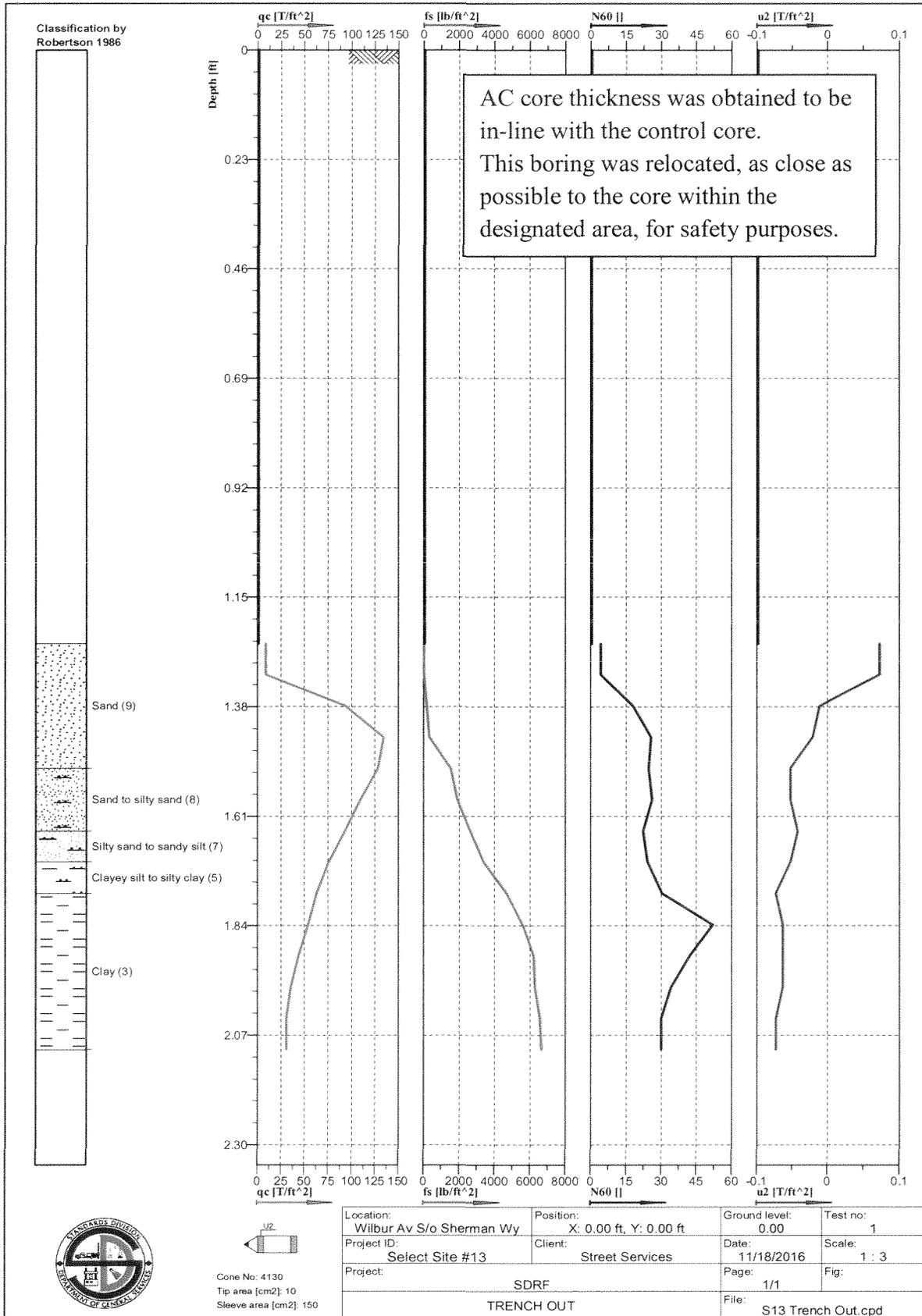
Location: 18011 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 10	Client: Street Services	Date: 11/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S10 Trench Out.cpd	

Lab No.: 17-741-138

<p>Could not penetrate soil with CPTU cone. No CPTU performed.</p> <p>Asphalt thickness = 6.8".</p>					
	 Cone No: 4130 Tip area [cm2]: 10 Sleeve area [cm2]: 150	Location: 18011 Sherman Way	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
		Project ID: Select Site # 10	Client: Street Services	Date: 11/8/2016	Scale: 1 : 3
		Project: SDRF		Page: 1/1	Fig:
		CONTROL		File: S10 Control.cpd	

Lab No.: 17-741-139





Lab No.: 17-741-141

High pressure gas, 36" diameter is located directly under control area.
Penetration not allowed. No CPTU performed.

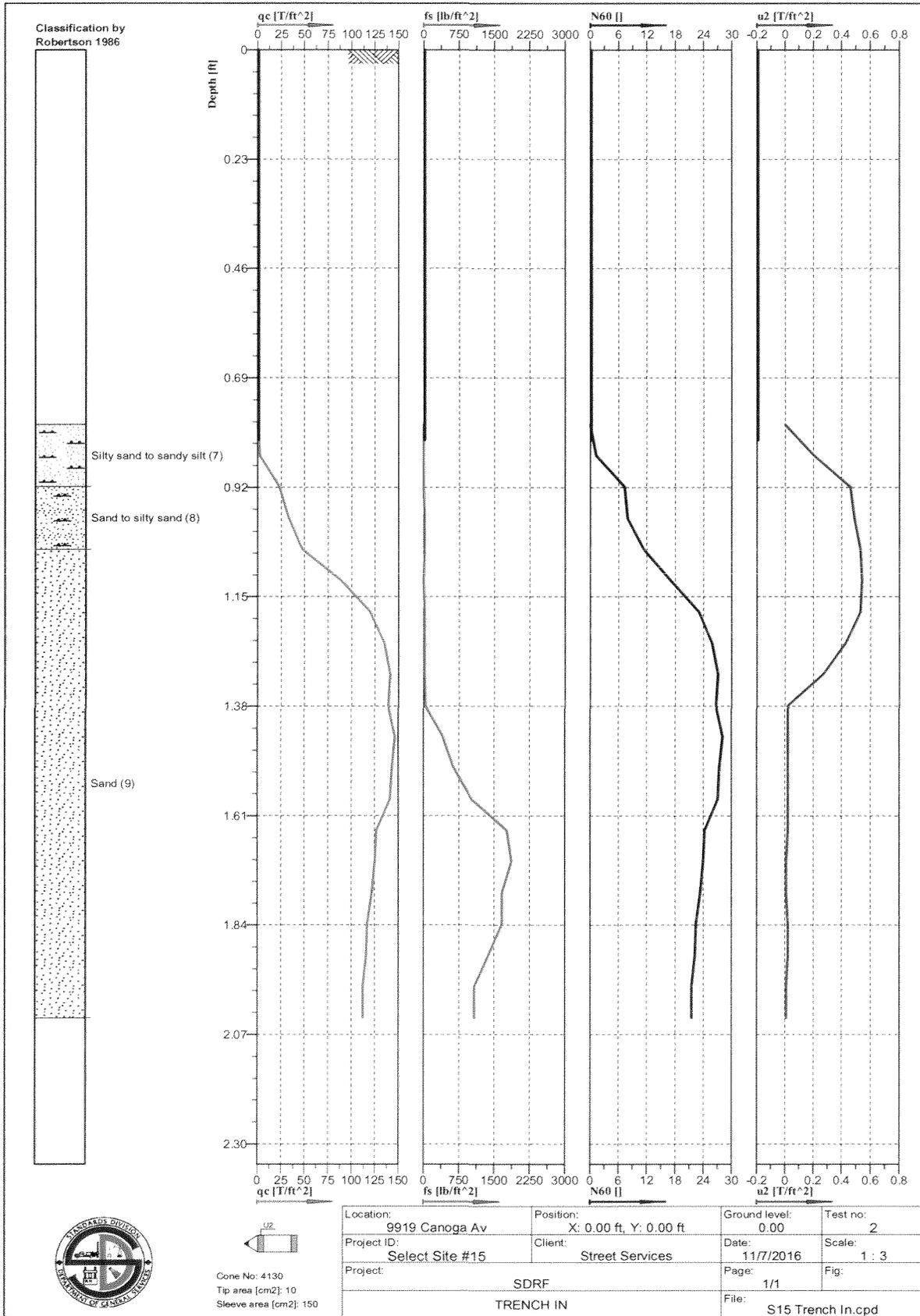
Asphalt thickness = 9.0".



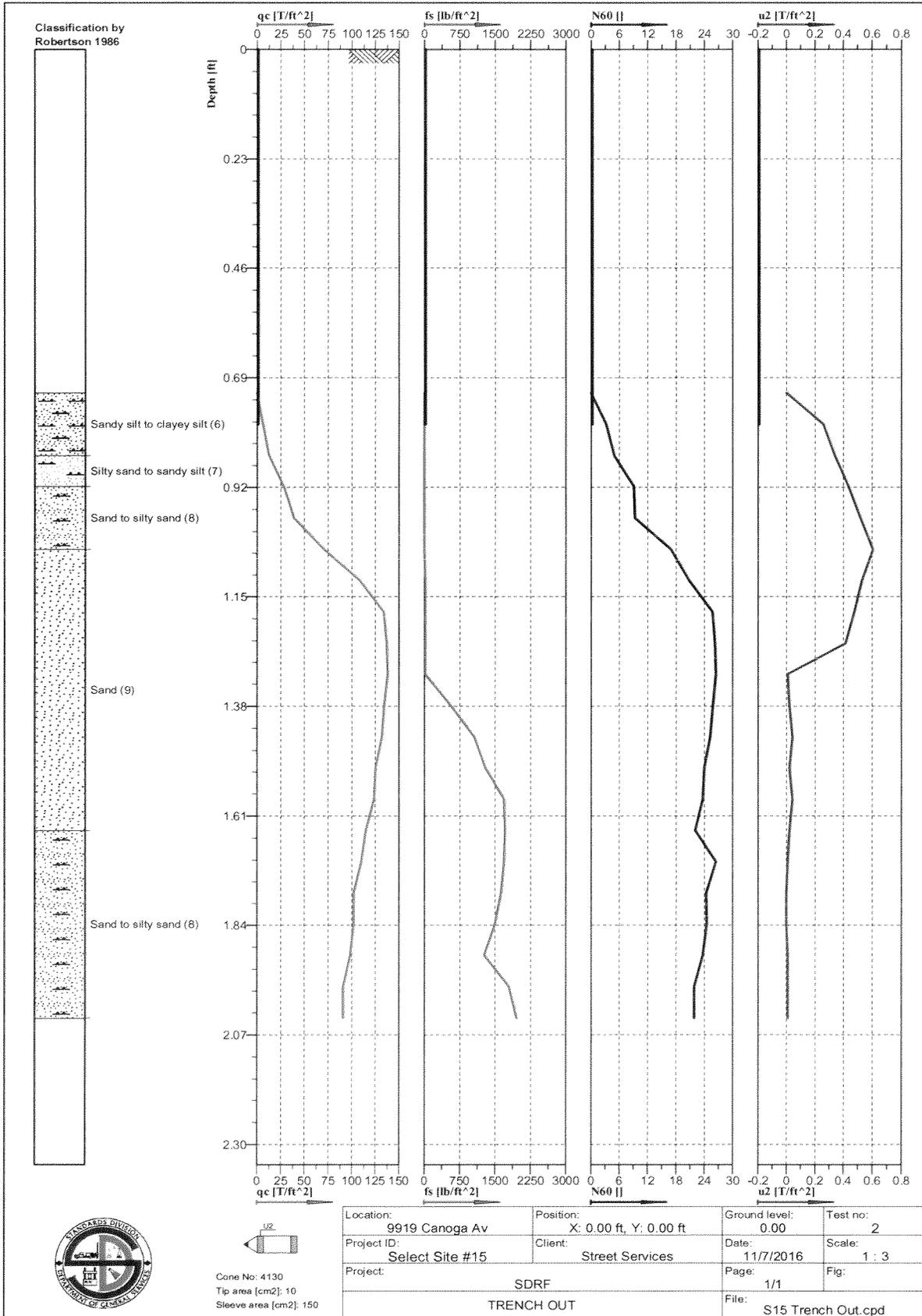
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Wilbur Av S/o Sherman Wy	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #13	Client: Street Services	Date: 11/18/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S13 Control.cpd	

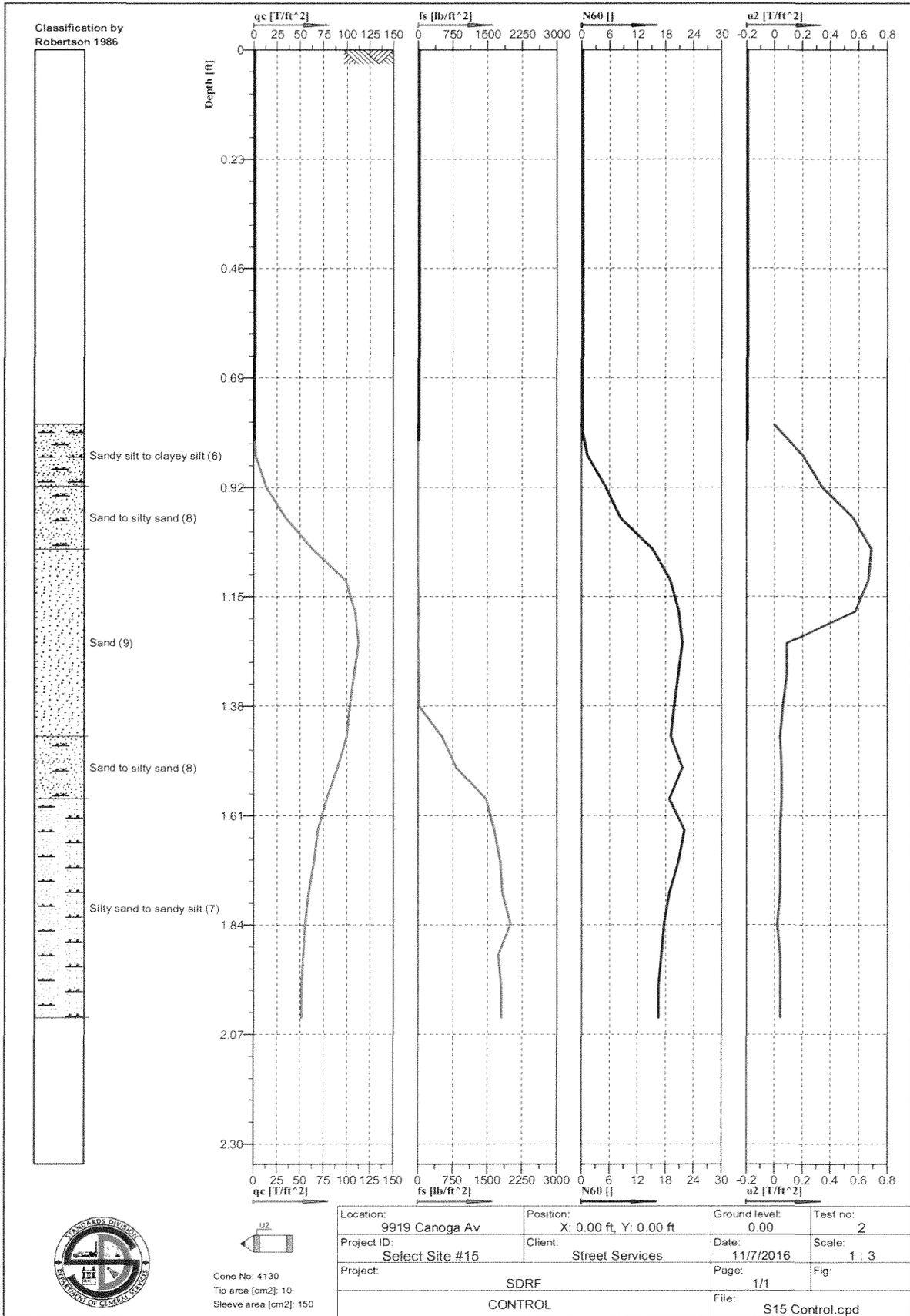
Lab No.: 17-741-142



Lab No.: 17-741-143



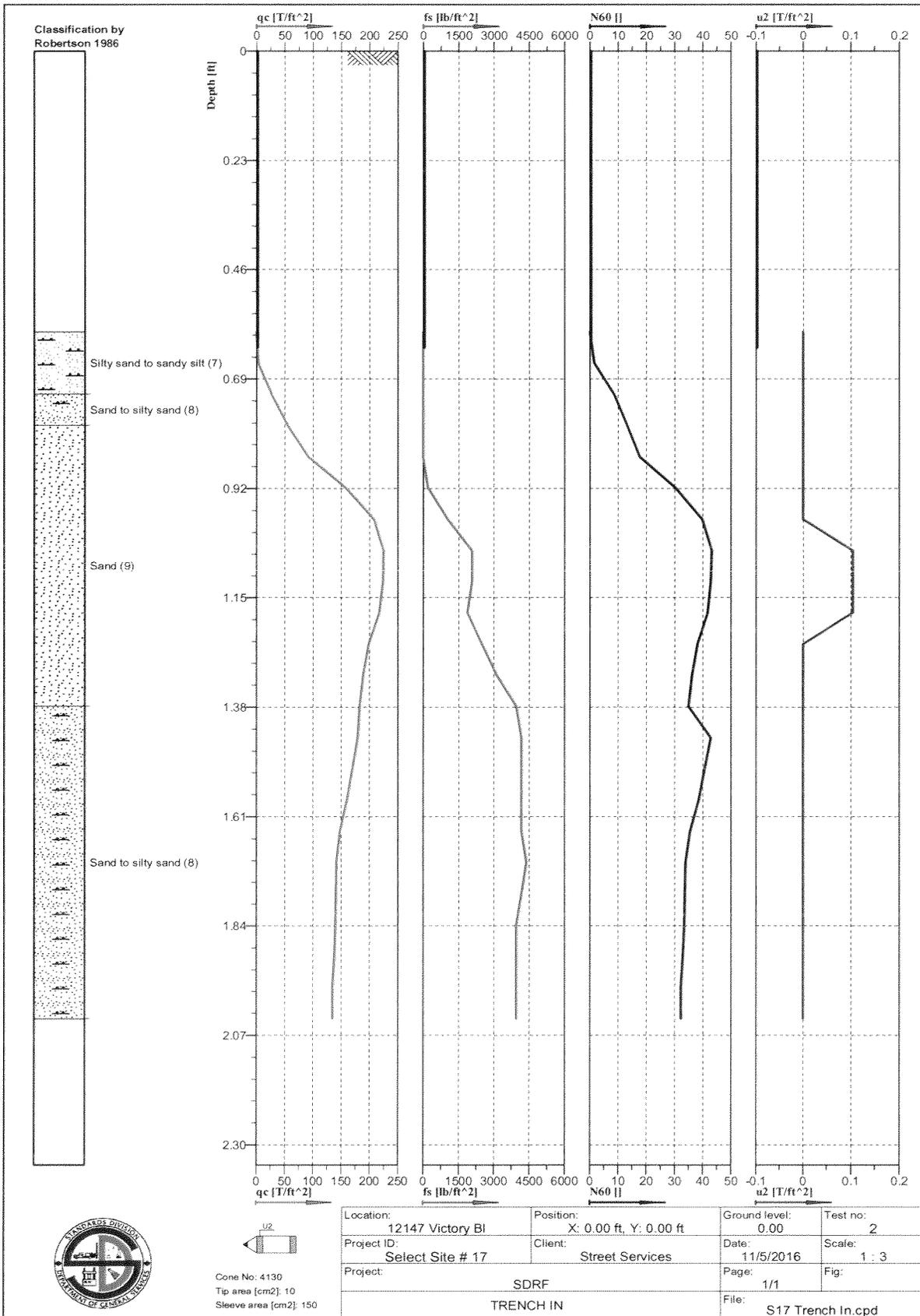
Lab No.: 17-741-144



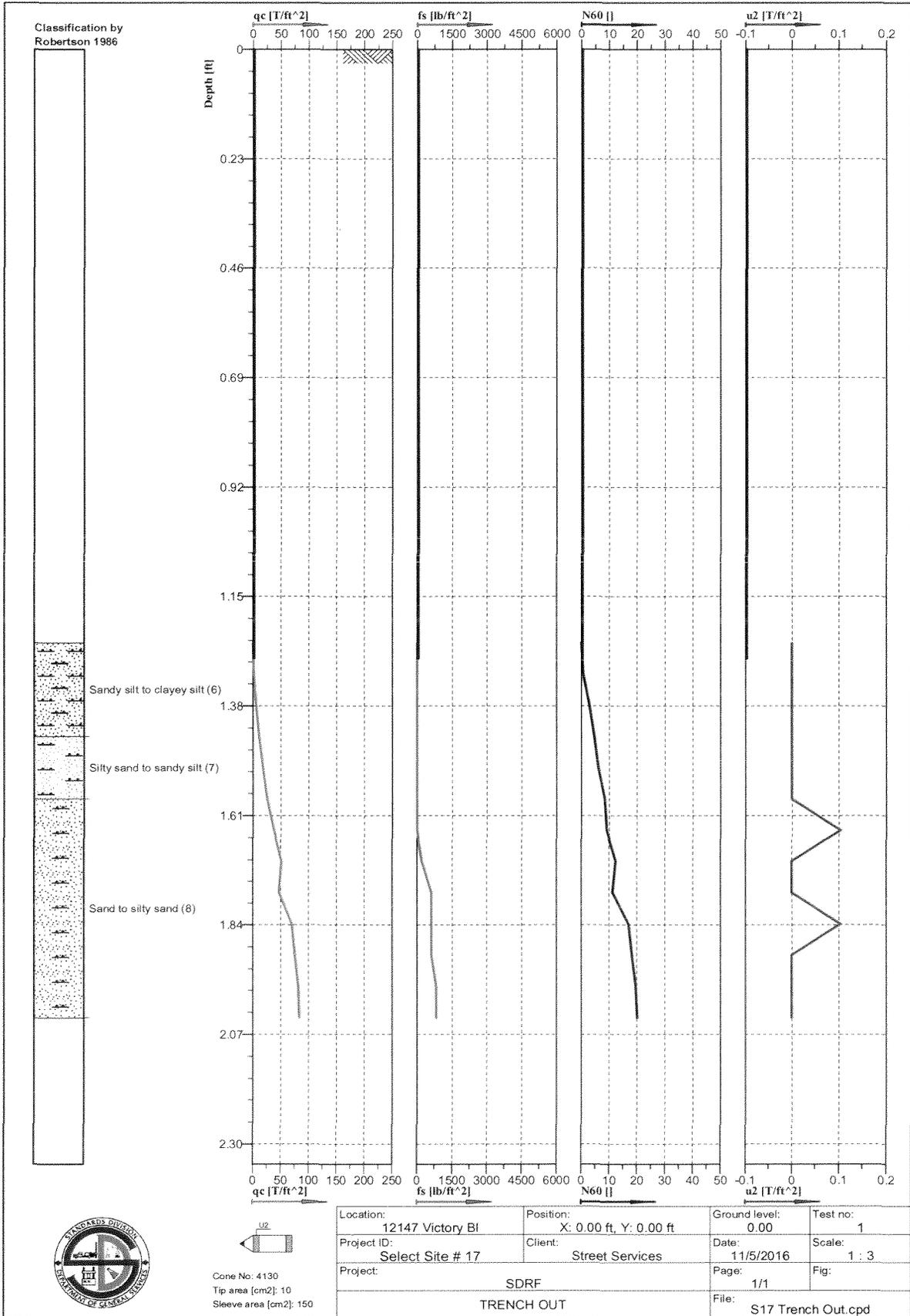
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 9919 Canoga Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 2
Project ID: Select Site #15	Client: Street Services	Date: 11/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S15 Control.cpd	

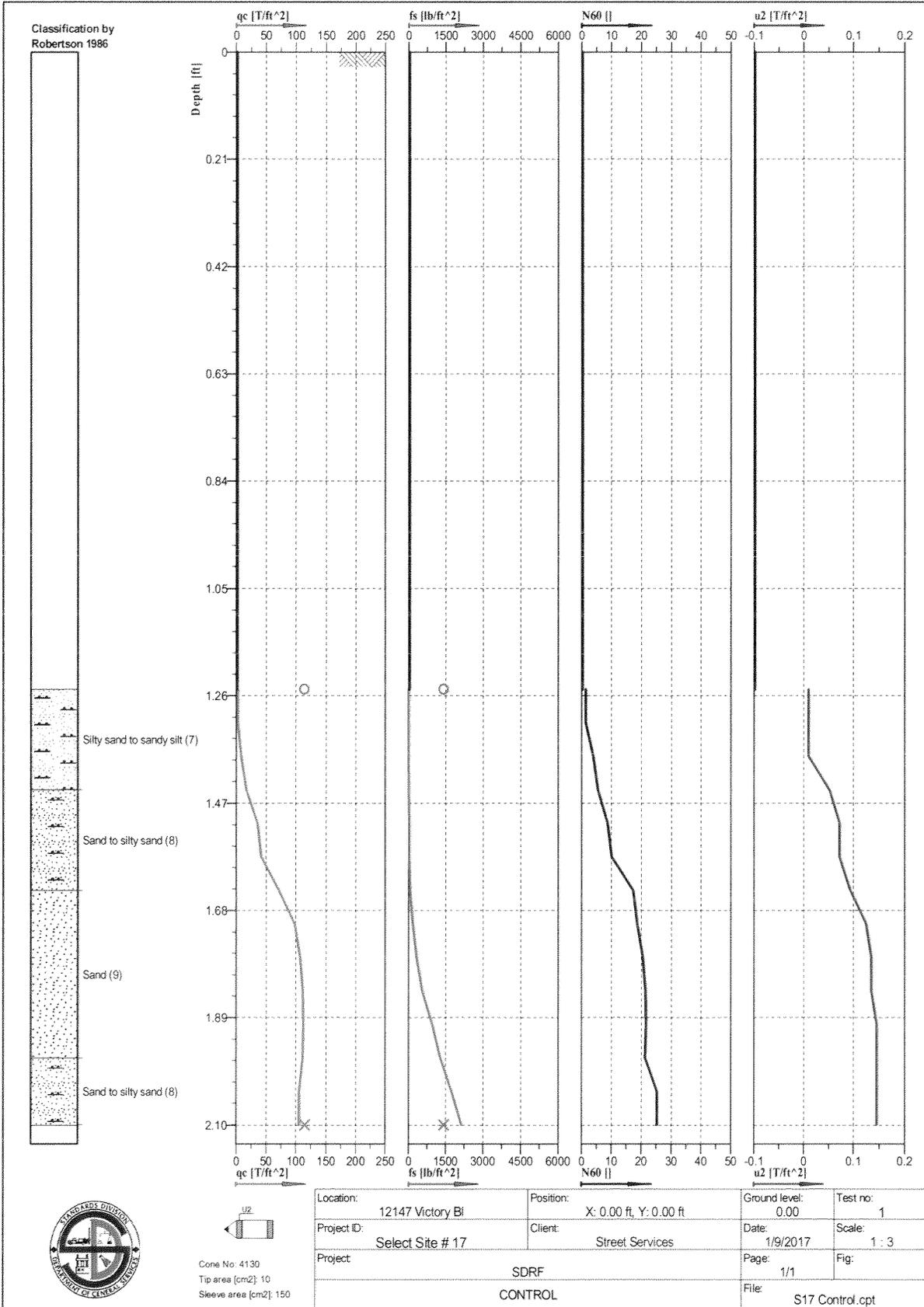
Lab No.: 17-741-145



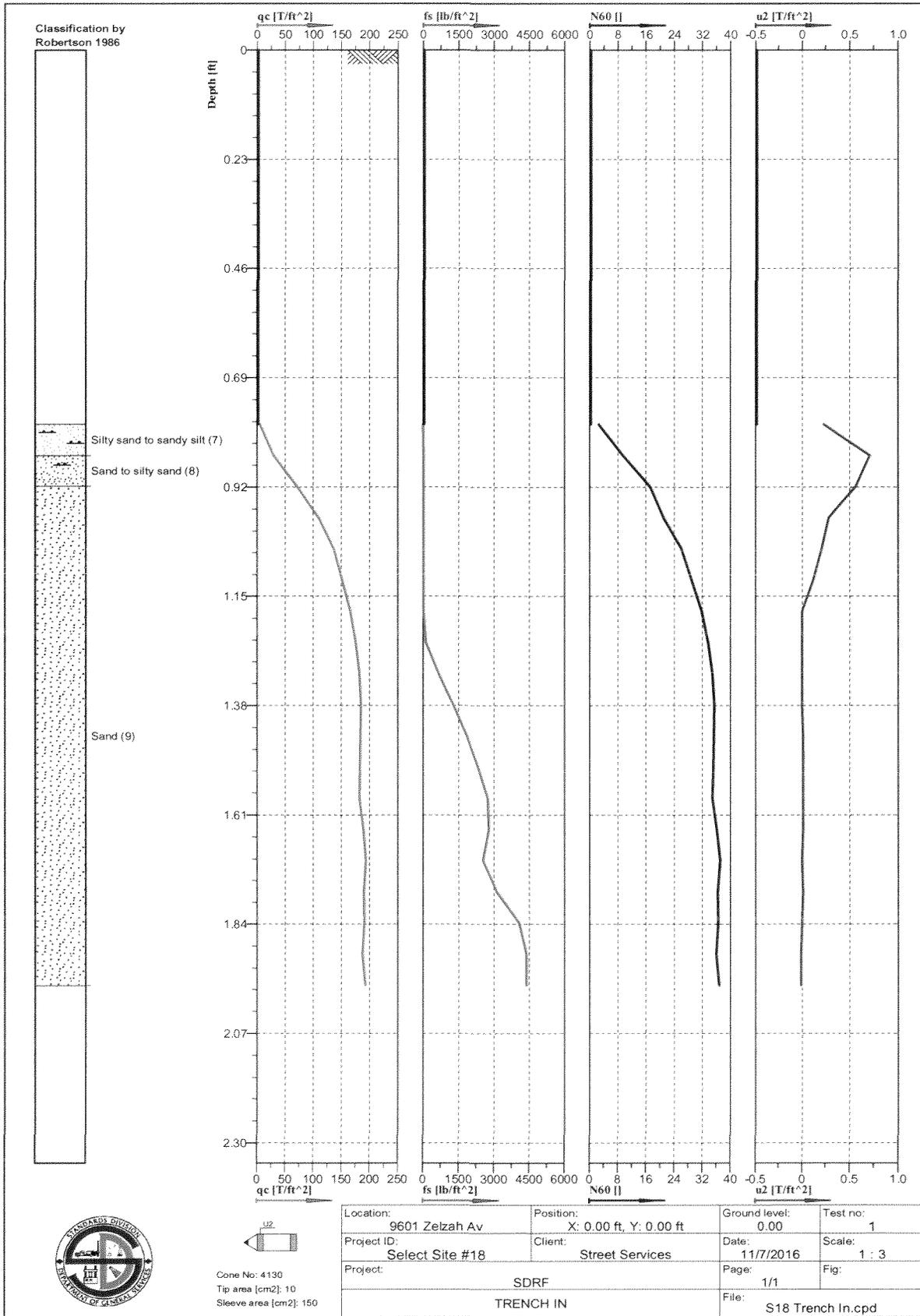
Lab No.: 17-741-146



Lab No.: 17-741-147



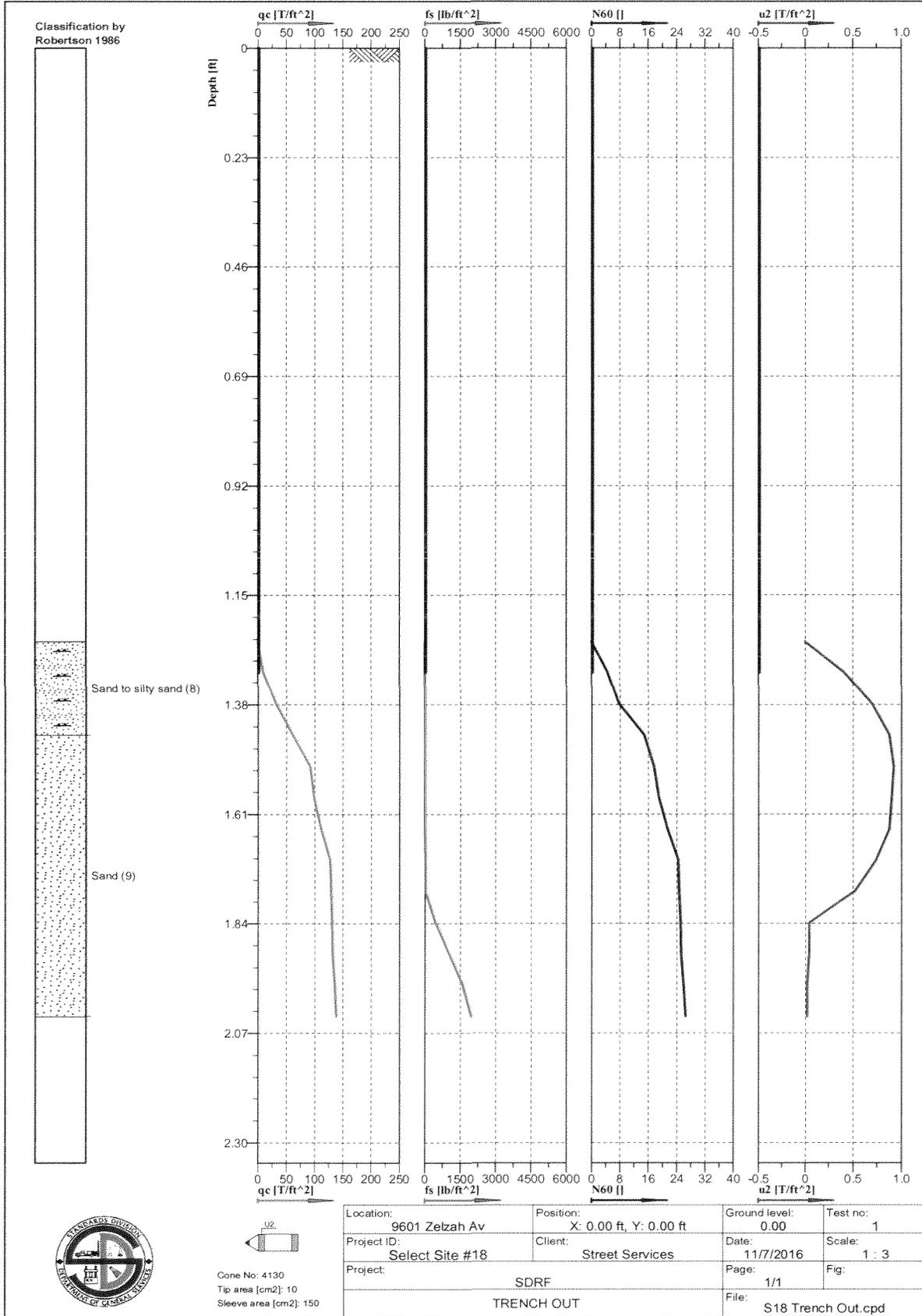
Lab No.: 17-741-148



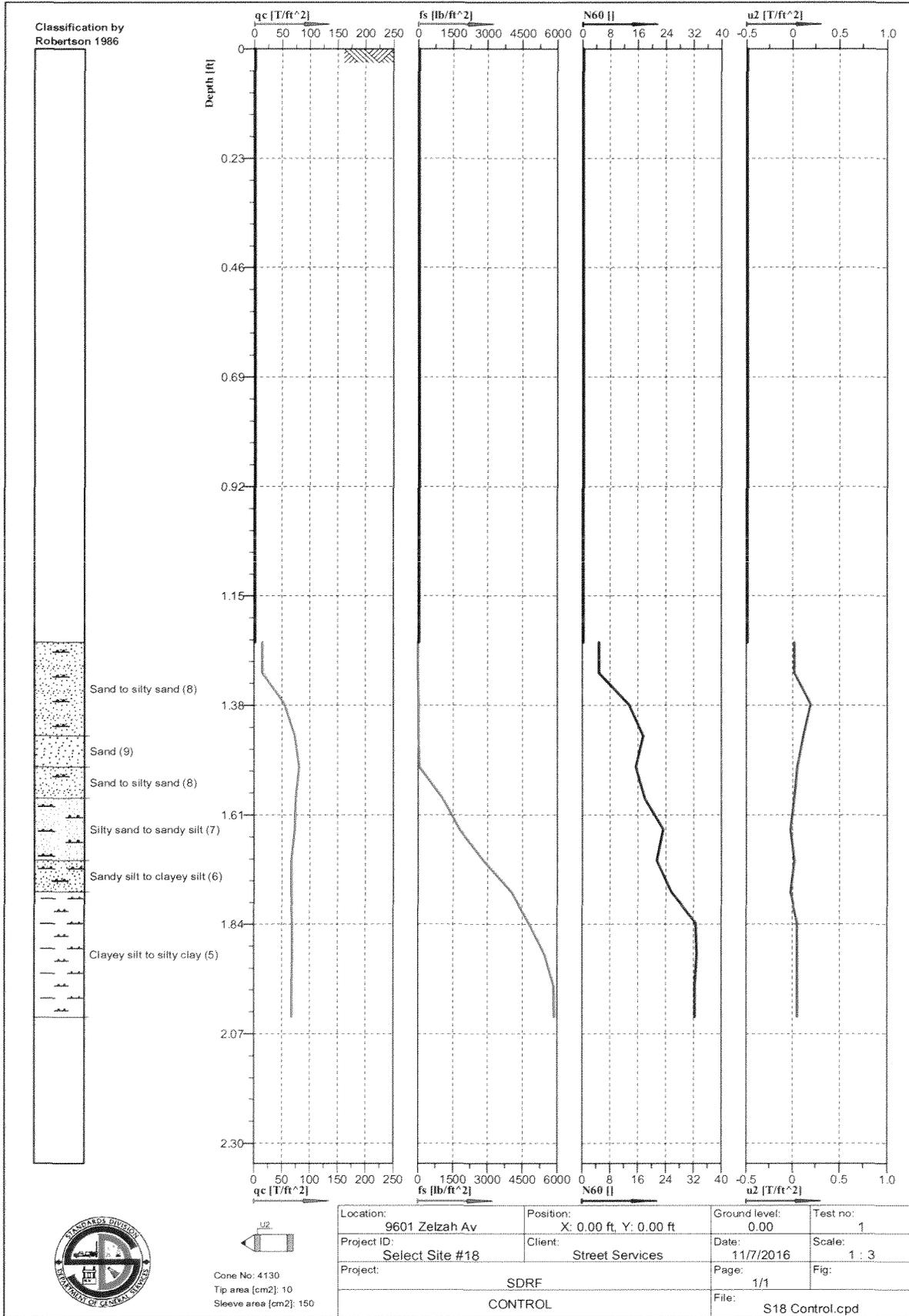
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 9601 Zelzah Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #18	Client: Street Services	Date: 11/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S18 Trench In.cpd	

Lab No.: 17-741-149

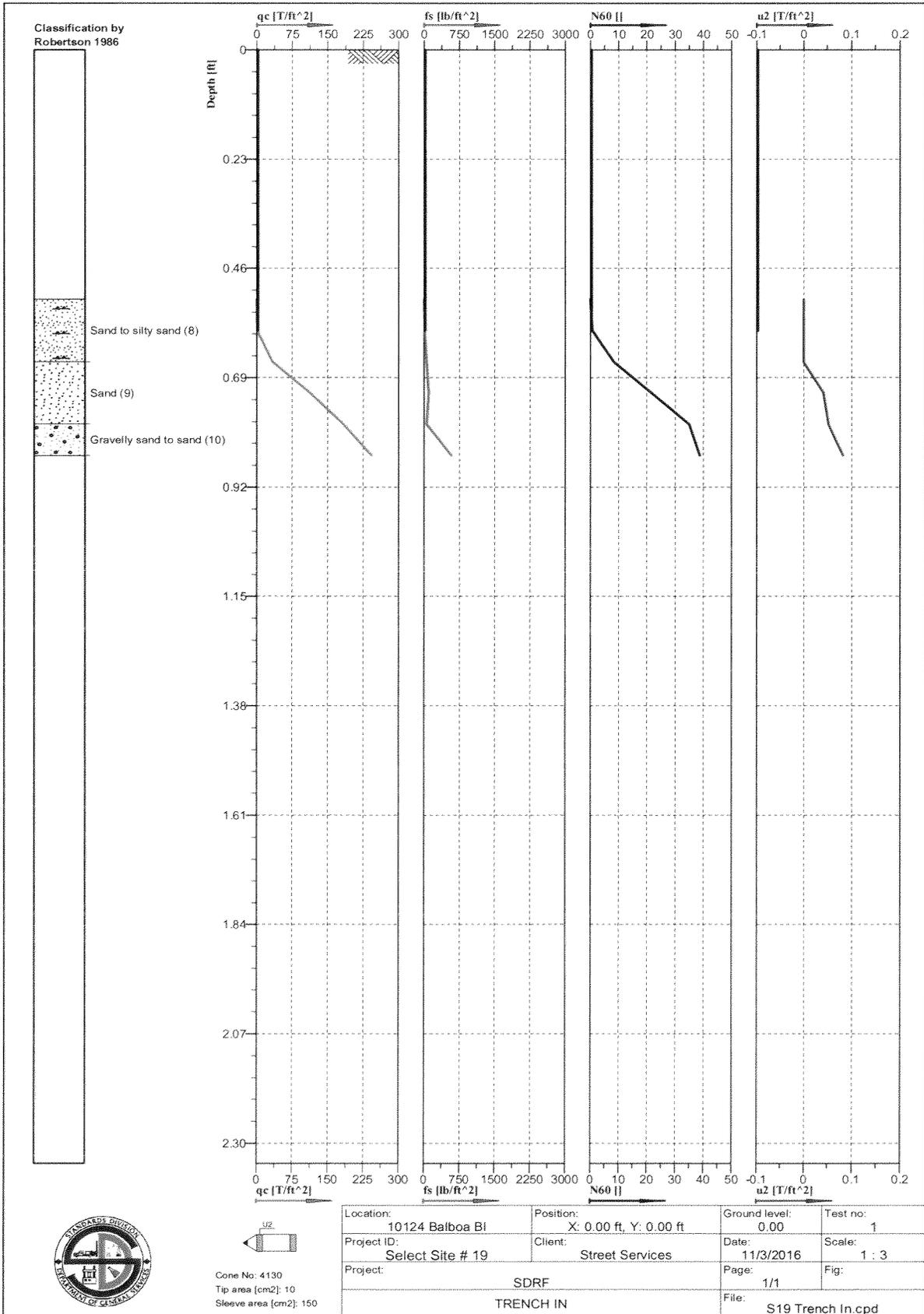


Lab No.: 17-741-150

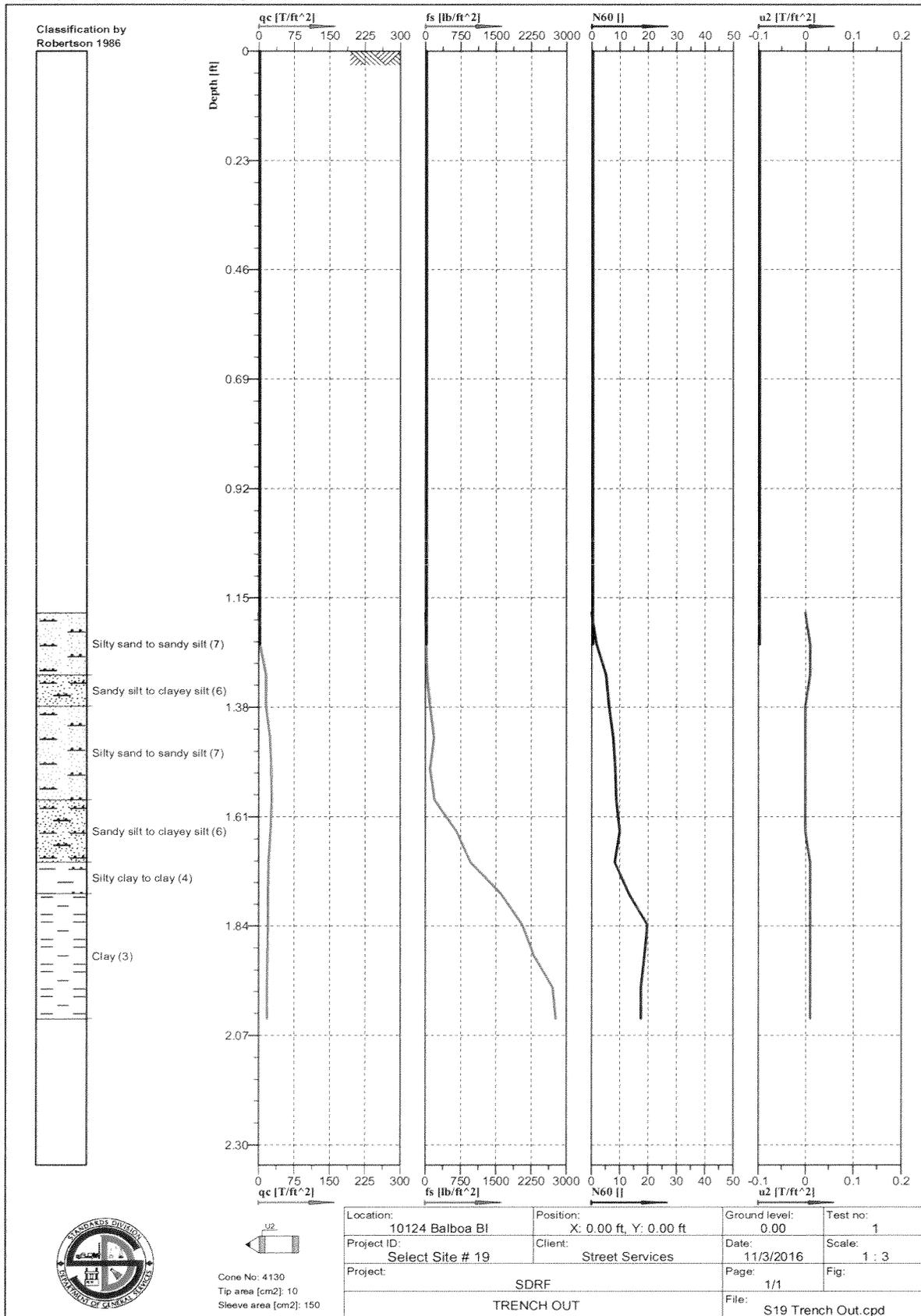


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

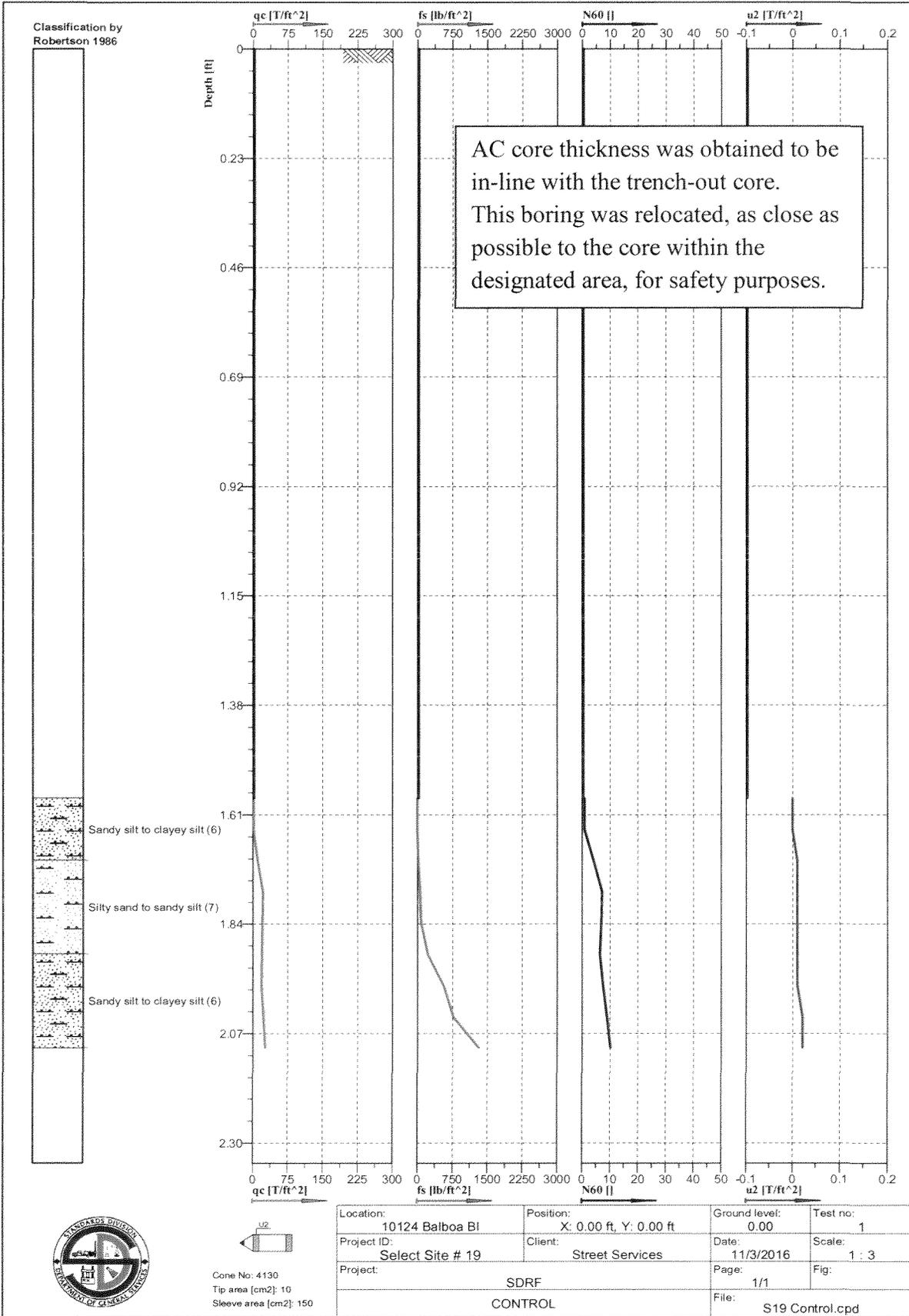
Lab No.: 17-741-151

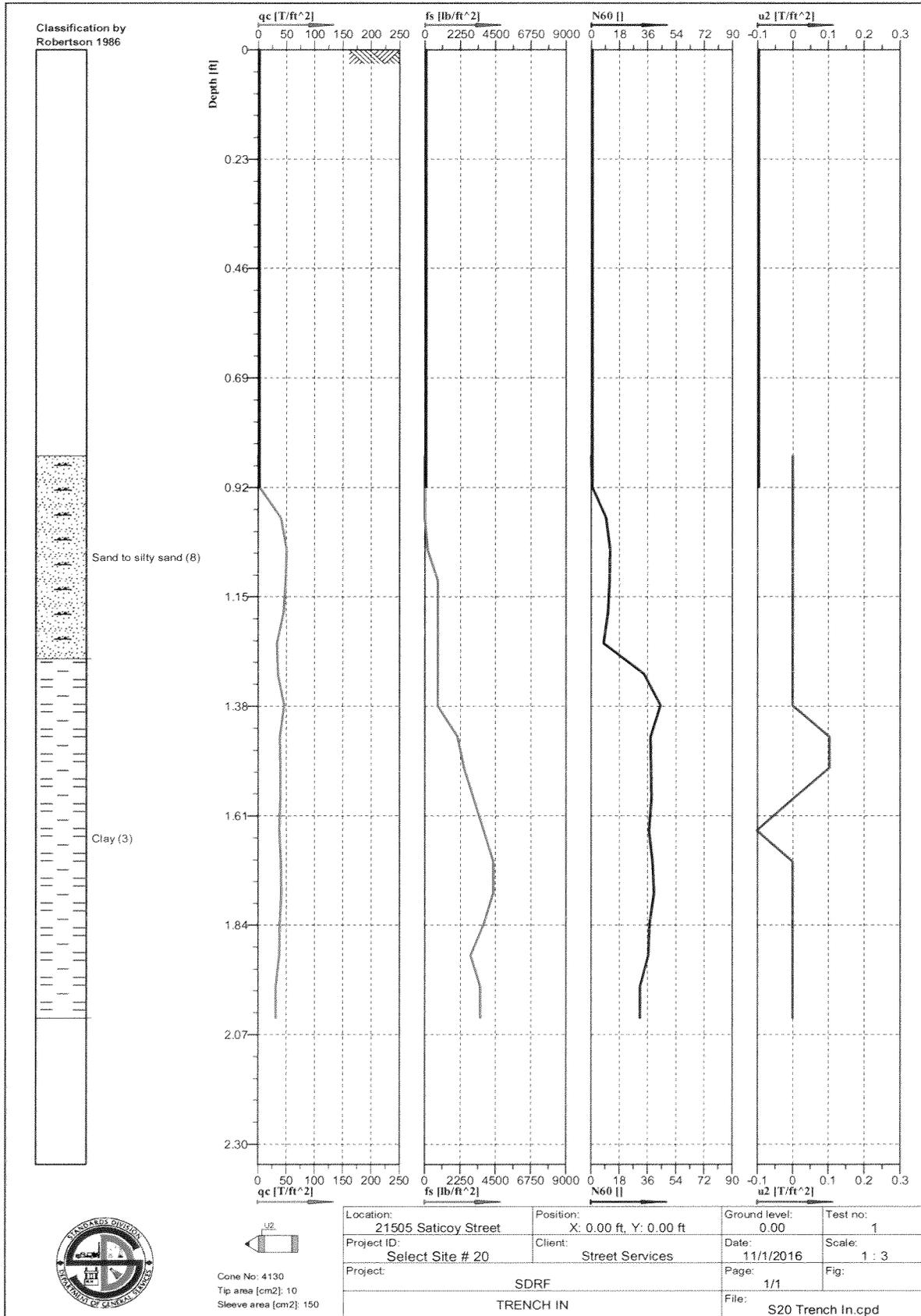


Lab No.: 17-741-152

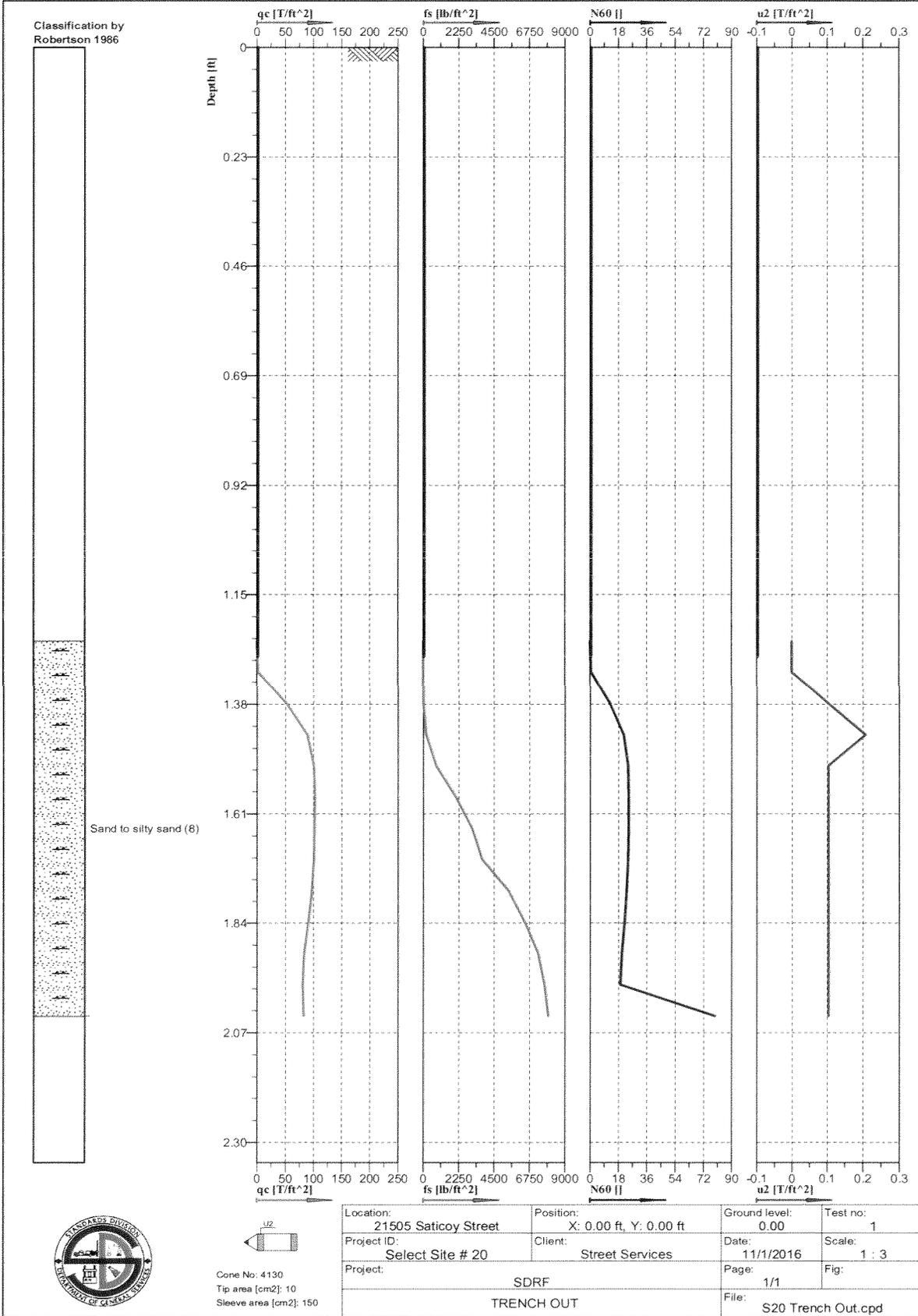


Lab No.: 17-741-153

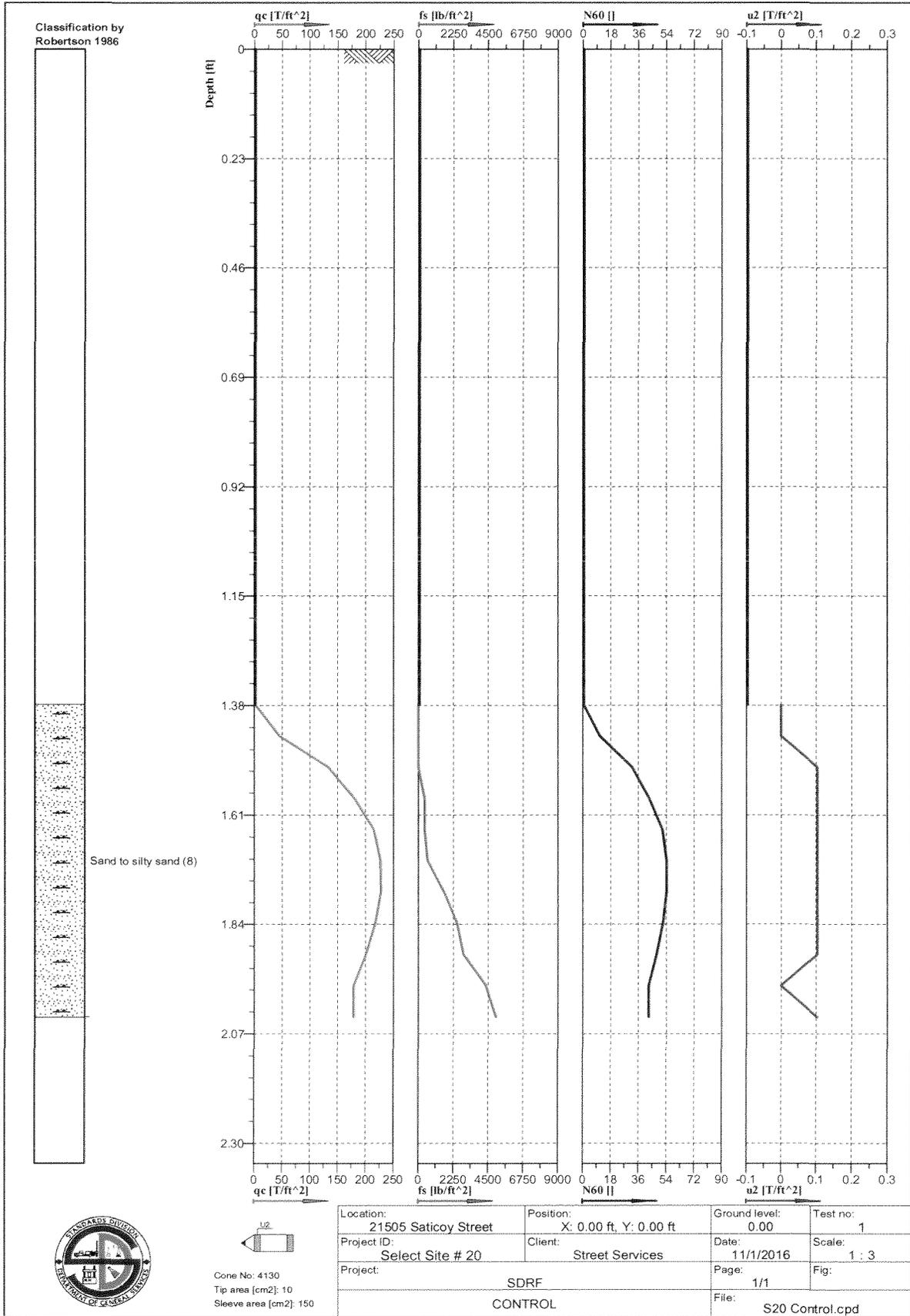




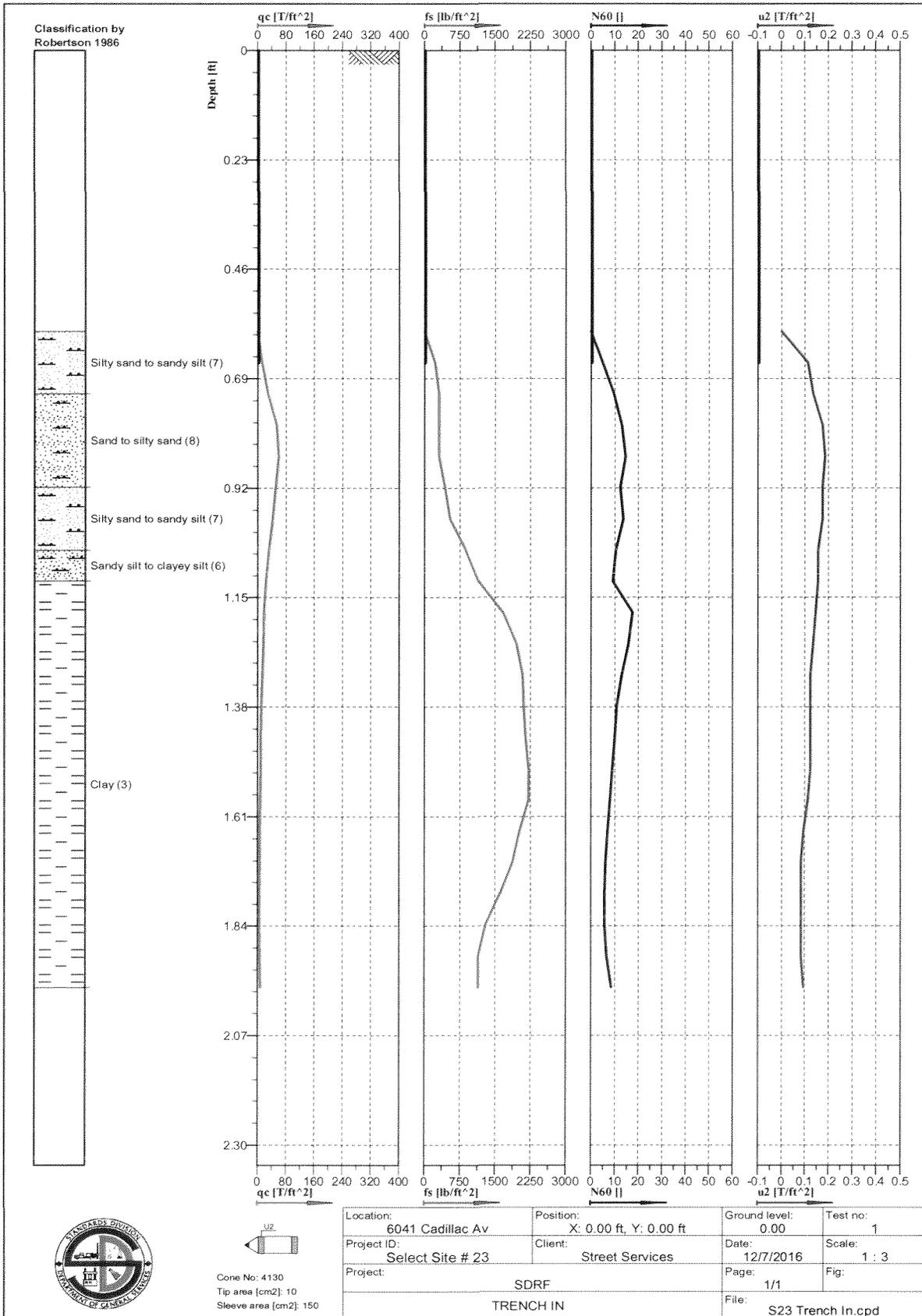
Lab No.: 17-741-155



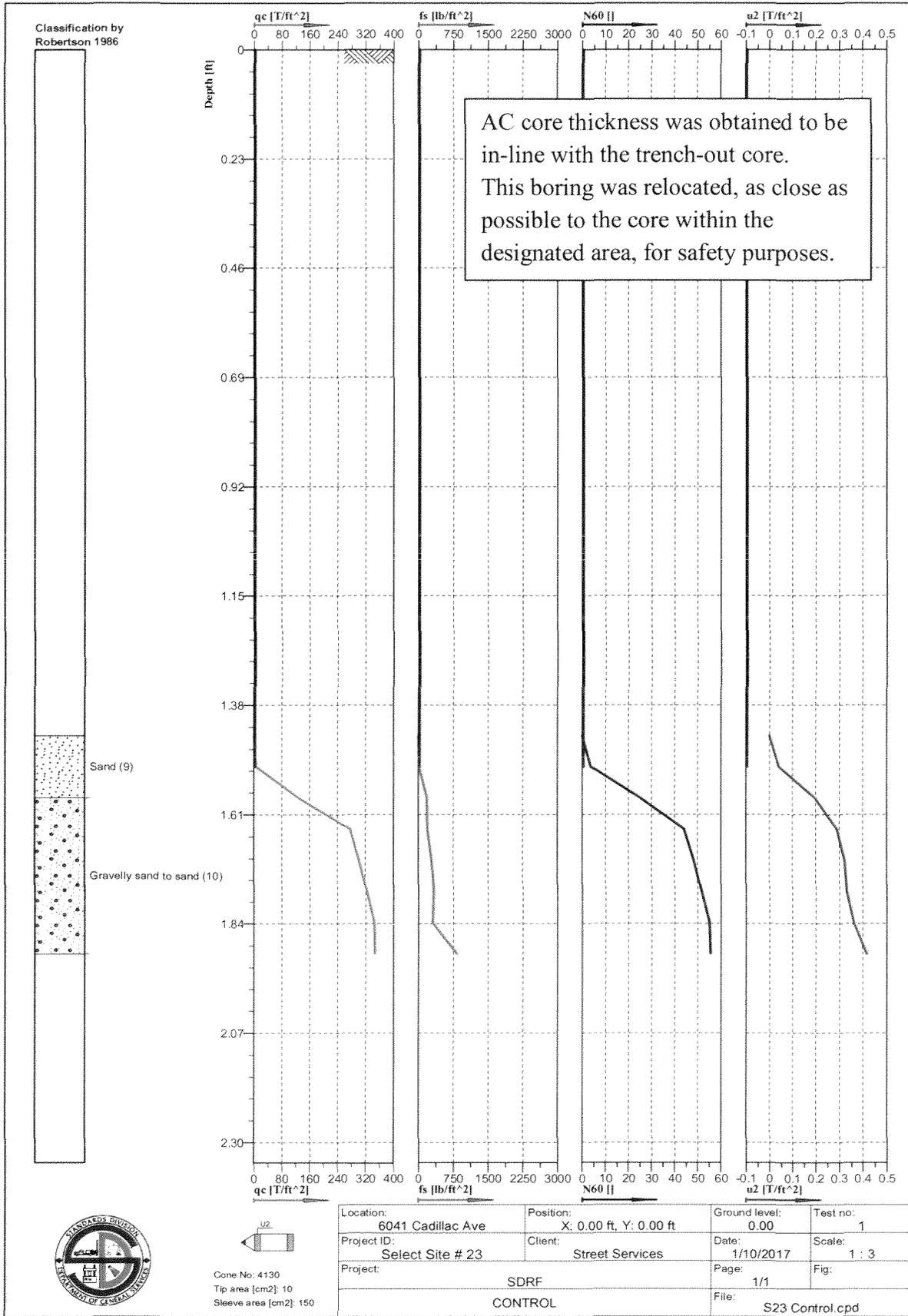
Lab No.: 17-741-156



Lab No.: 17-741-157



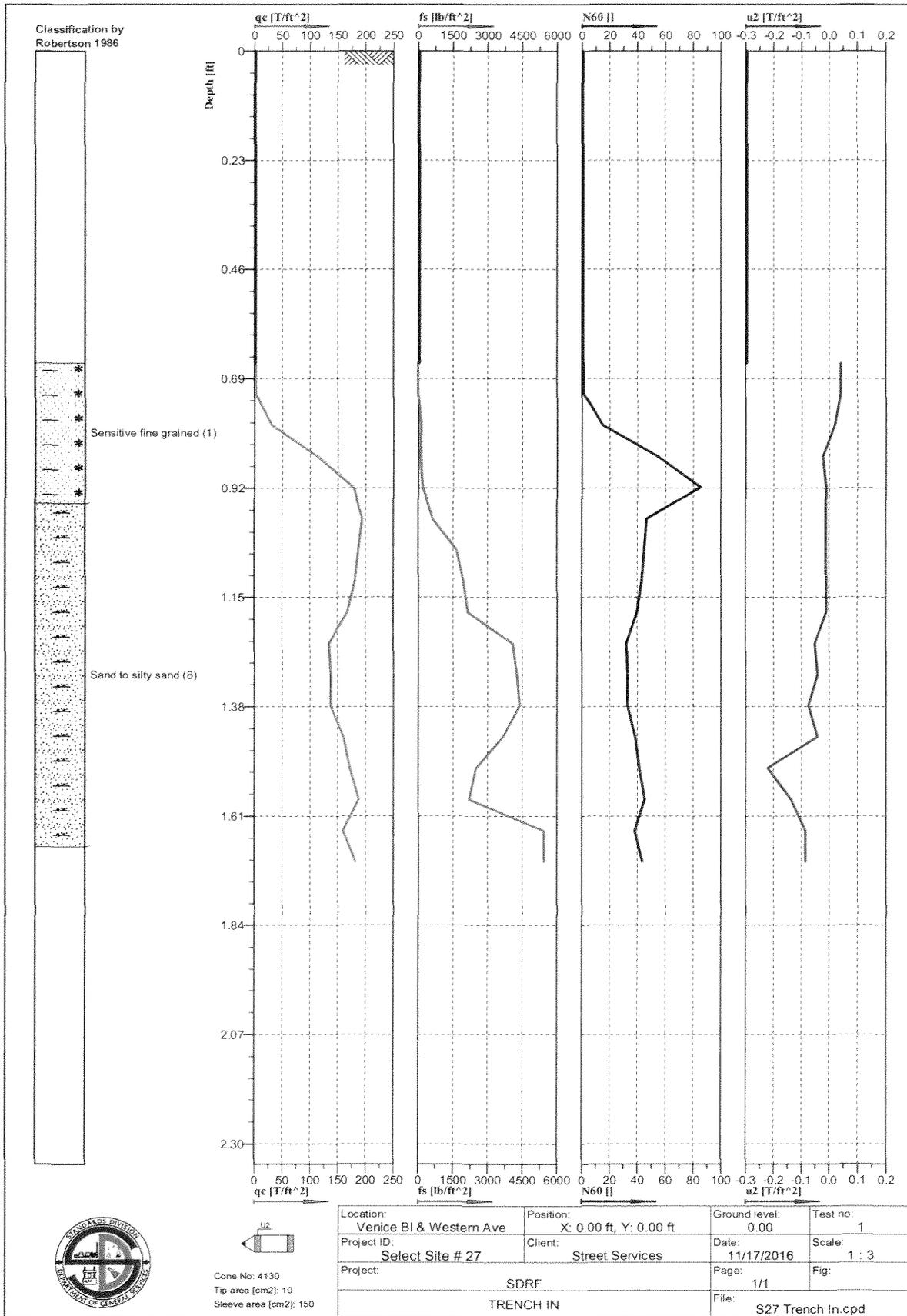
Lab No.: 17-741-159



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 6041 Cadillac Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 23	Client: Street Services	Date: 1/10/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S23 Control.cpd	

Lab No.: 17-741-160



Lab No.: 17-741-161

Railroad ties and ballast were found under the street.

Could not penetrate. No CPTU performed.

Asphalt thickness = 11.1”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Venice Bl & Western Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 27	Client: Street Services	Date: 11/17/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S27 Trench Out.cpd	

Railroad ties and ballast were found under the street.

Could not penetrate. No CPTU performed.

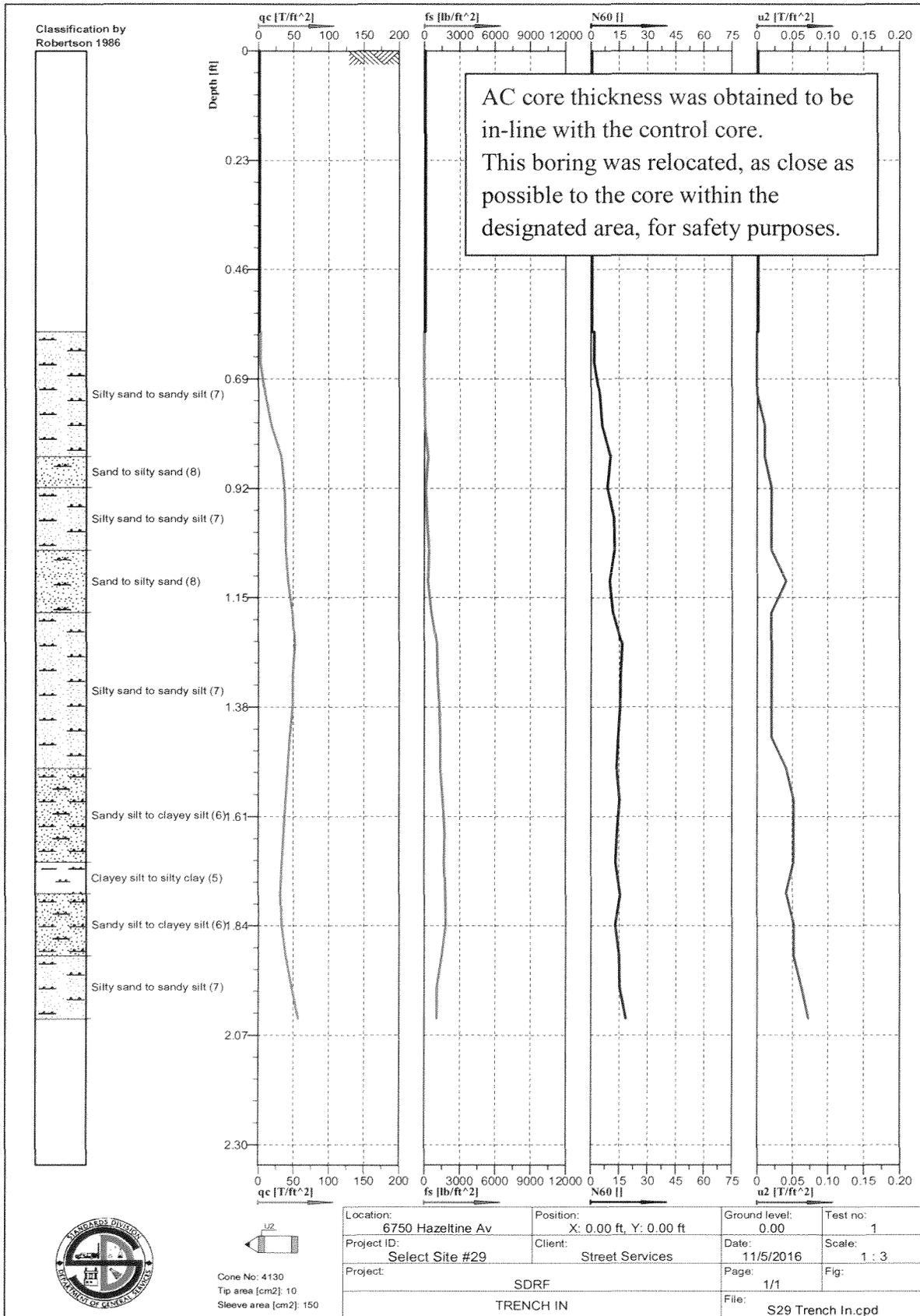
Asphalt thickness = 12.0”.



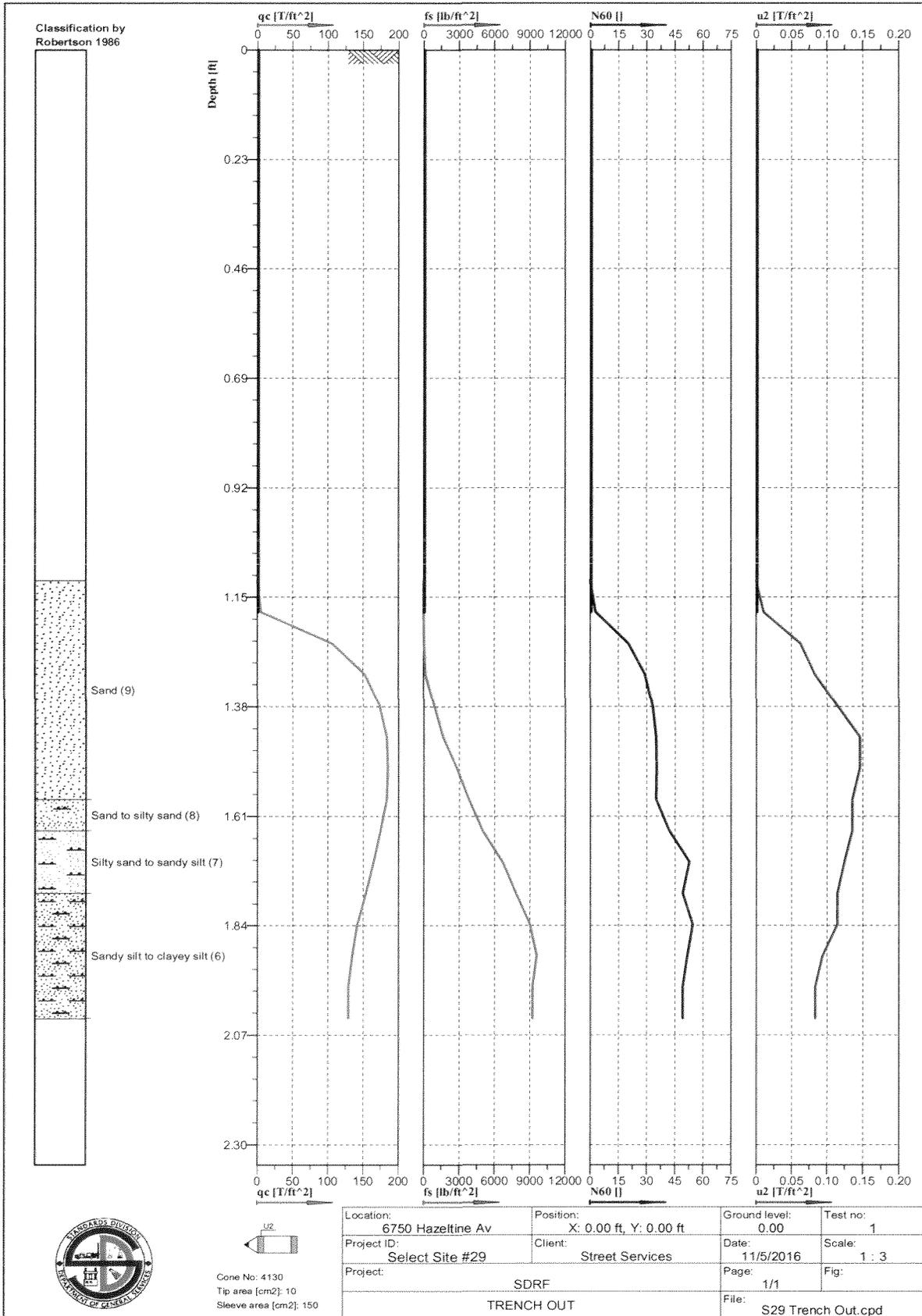
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Venice Bl & Western Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 27	Client: Street Services	Date: 11/17/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S27 Control.cpd	

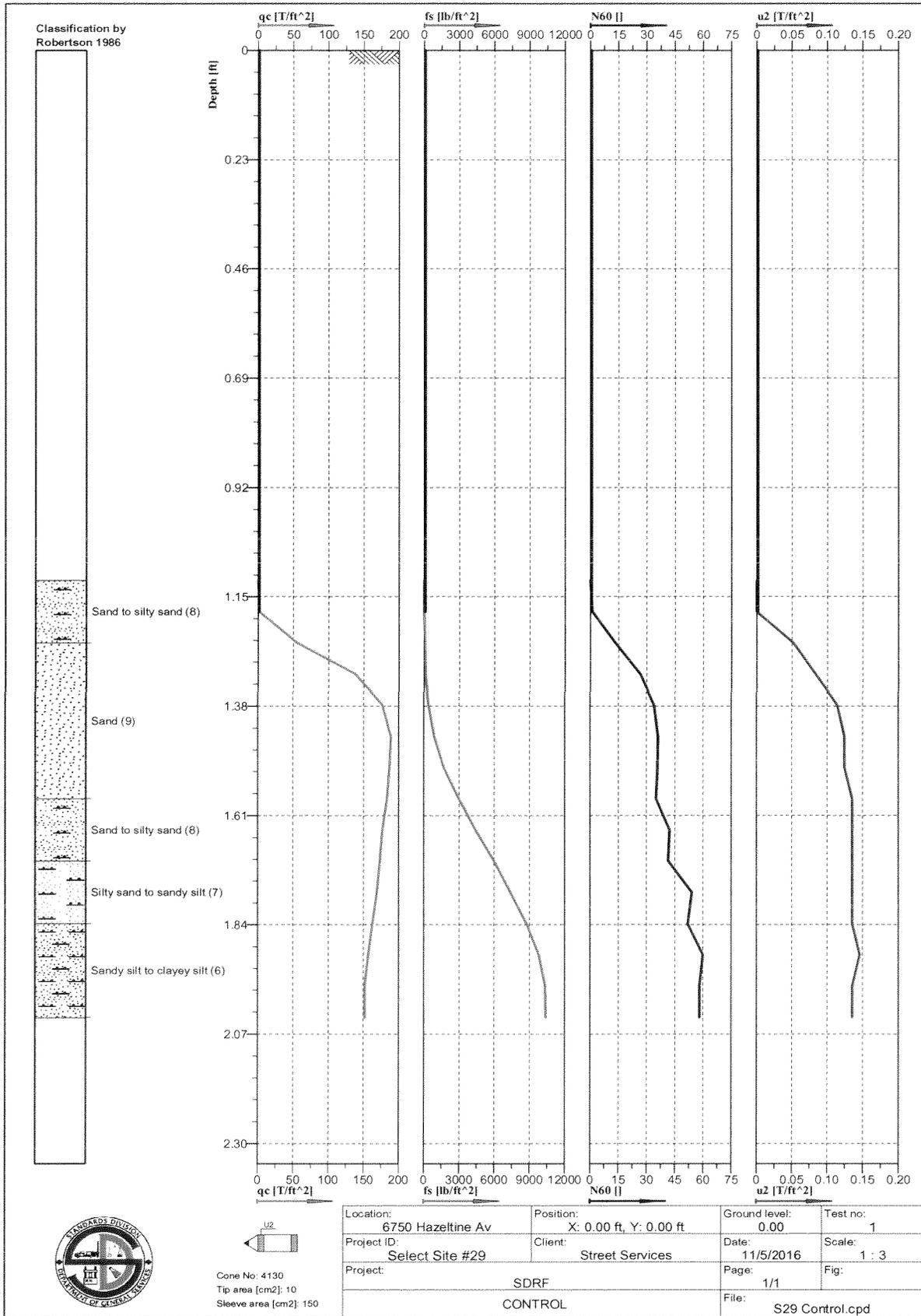
Lab No.: 17-741-163



Lab No.: 17-741-164



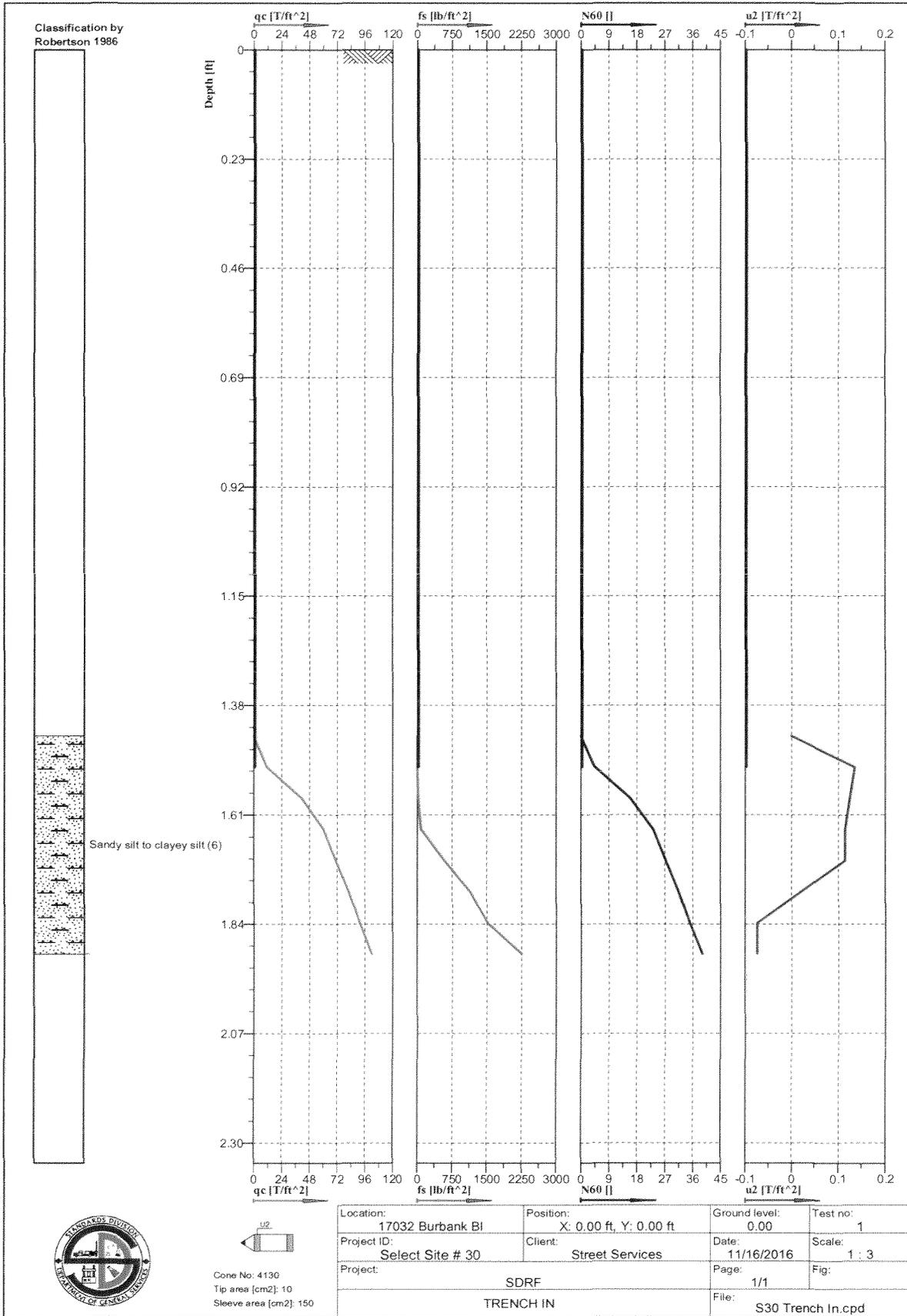
Lab No.: 17-741-165



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

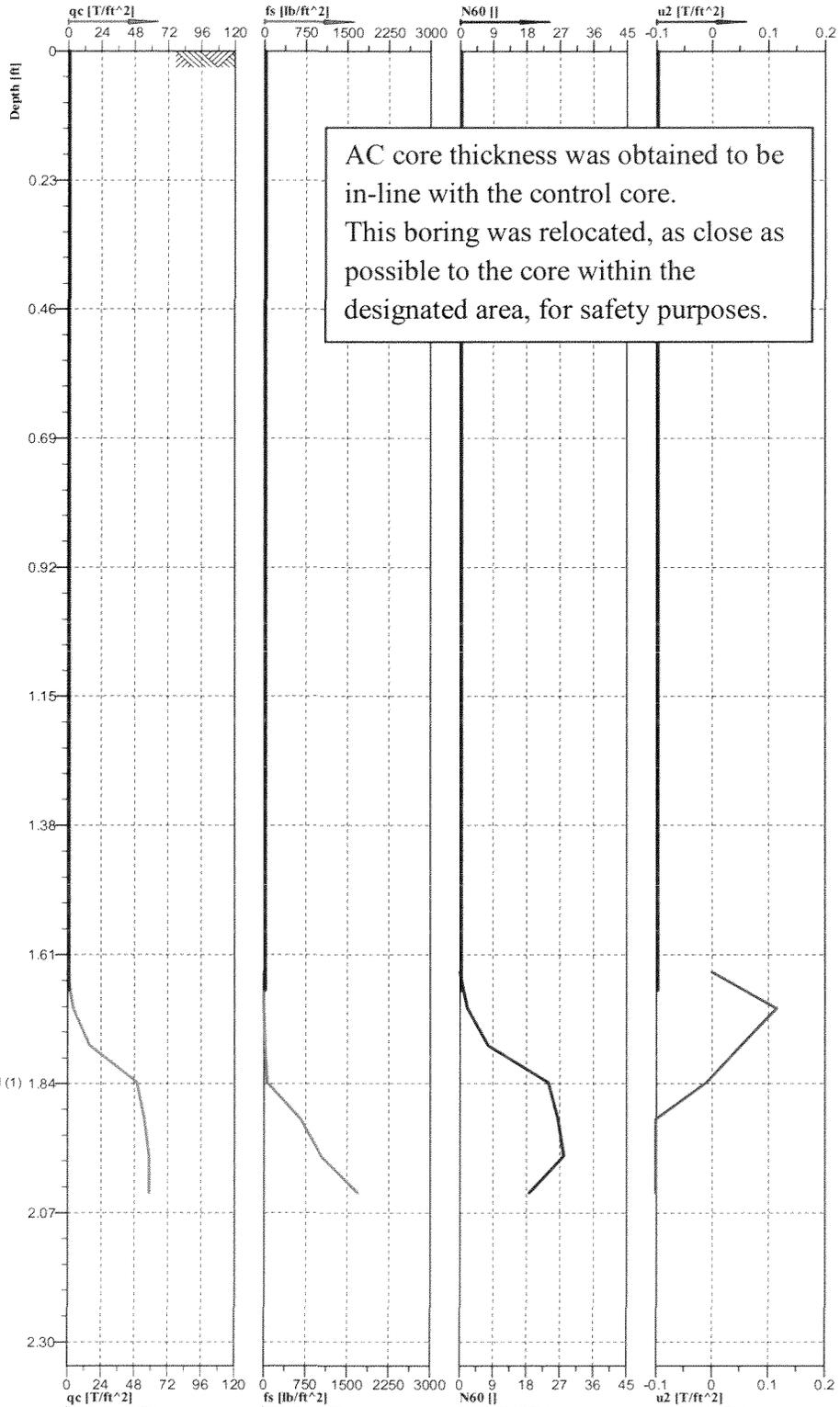
Location: 6750 Hazeline Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #29	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S29 Control.cpd	

Lab No.: 17-741-166



Lab No.: 17-741-167

Classification by
Robertson 1986



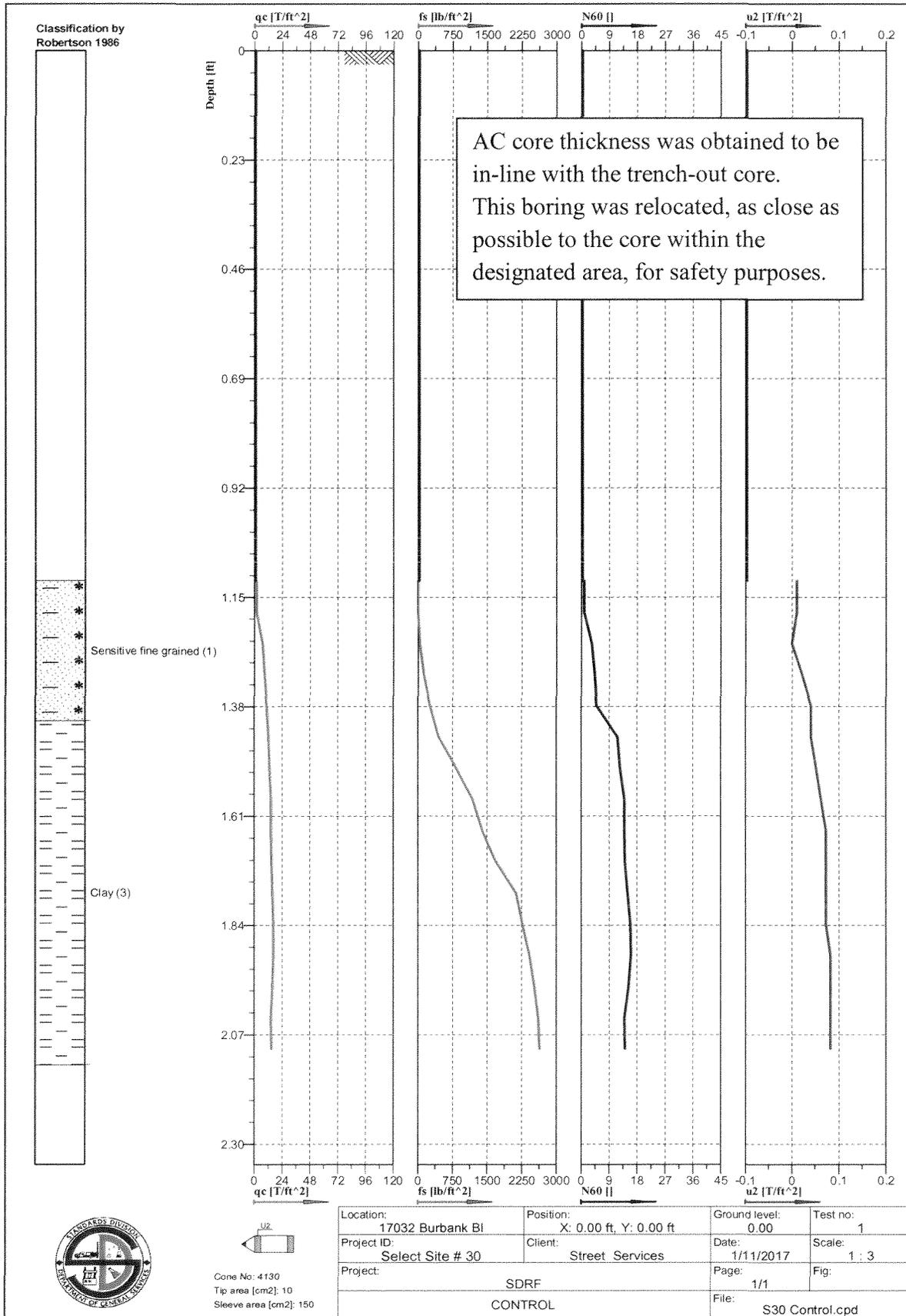
AC core thickness was obtained to be in-line with the control core.
This boring was relocated, as close as possible to the core within the designated area, for safety purposes.

Sensitive fine grained (1)



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: 17032 Burbank Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 30	Client: Street Services	Date: 11/16/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH OUT		File: S30 Trench Out.cpd	



Lab No.: 17-741-169

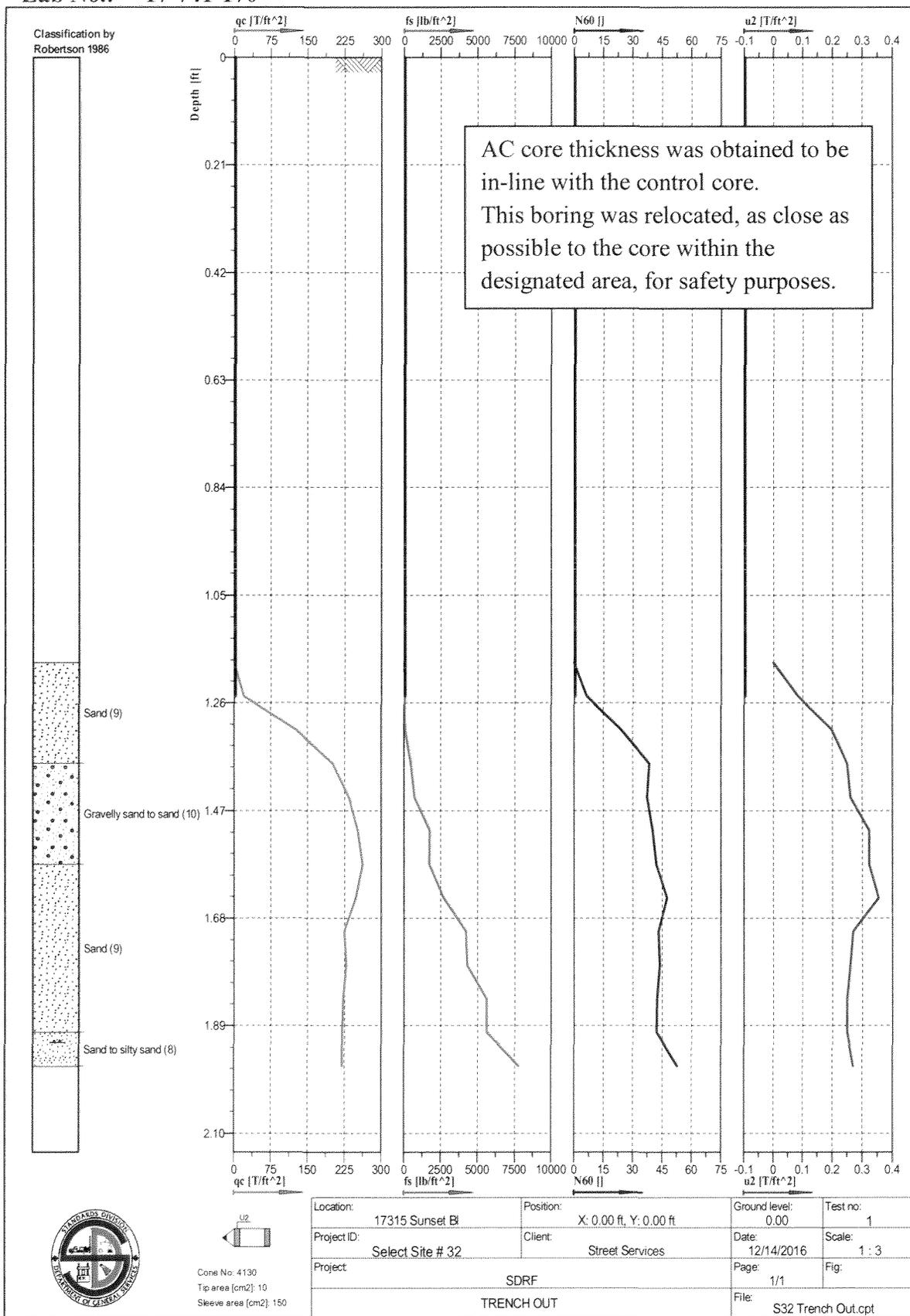
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 8.5”.

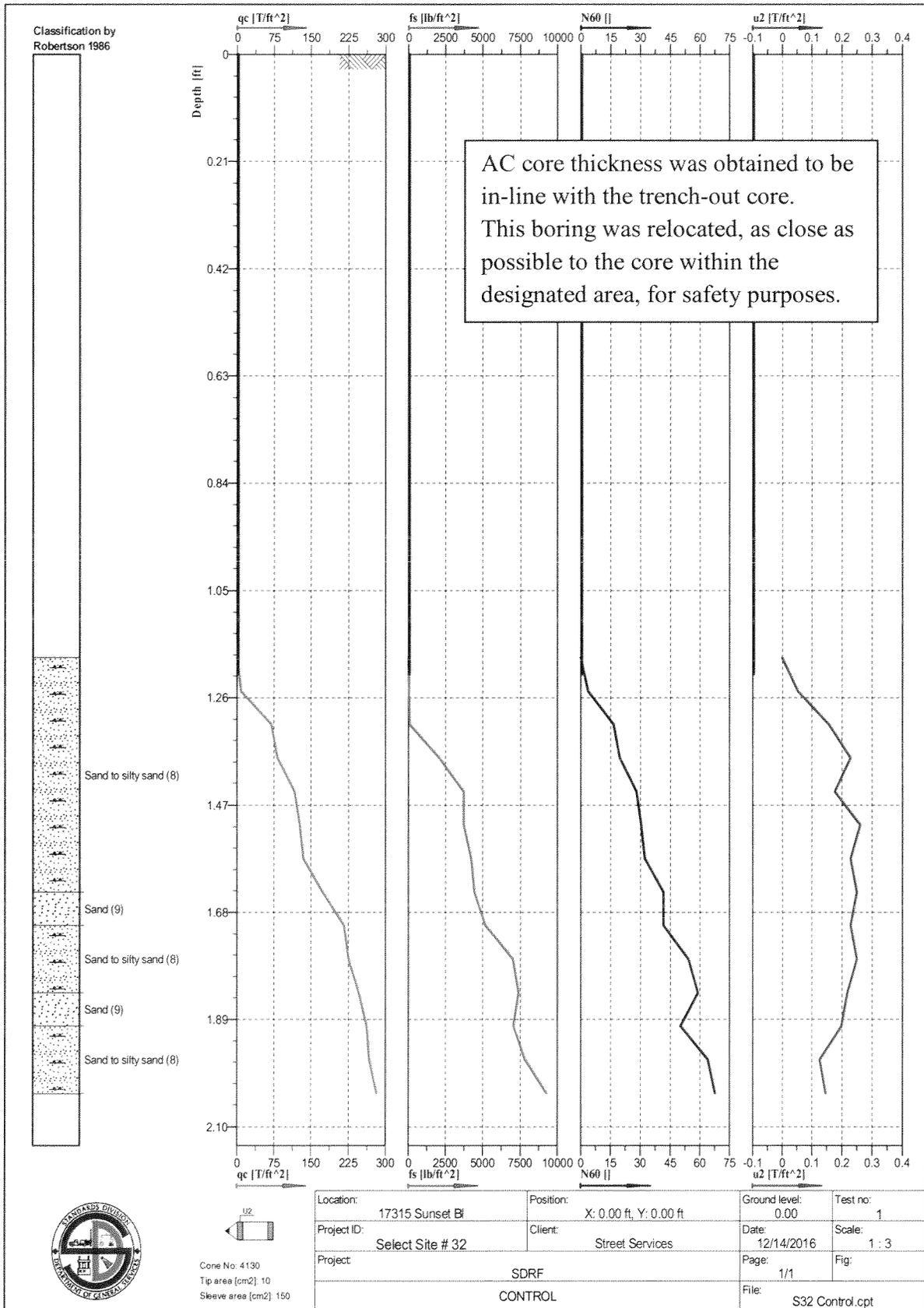


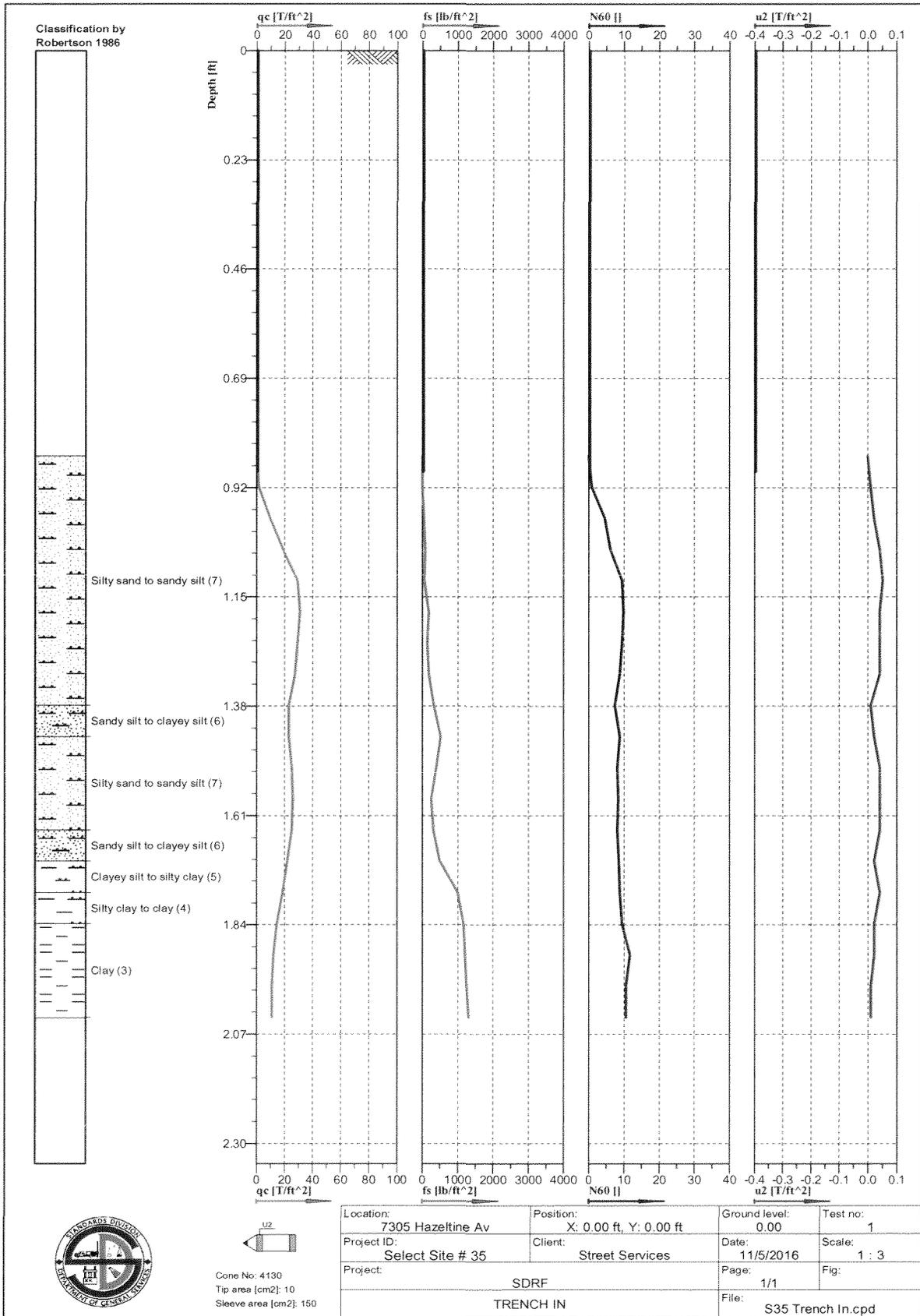
Cone No. 4130
Tip area [cm²] 10
Sleeve area [cm²] 150

Location:	17315 Sunset Bl	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Select Site # 32	Client:	Street Services	Date:	12/14/2016	Scale:	1 : 3
Project	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	S32 Trench In.cpt		



Lab No.: 17-741-171

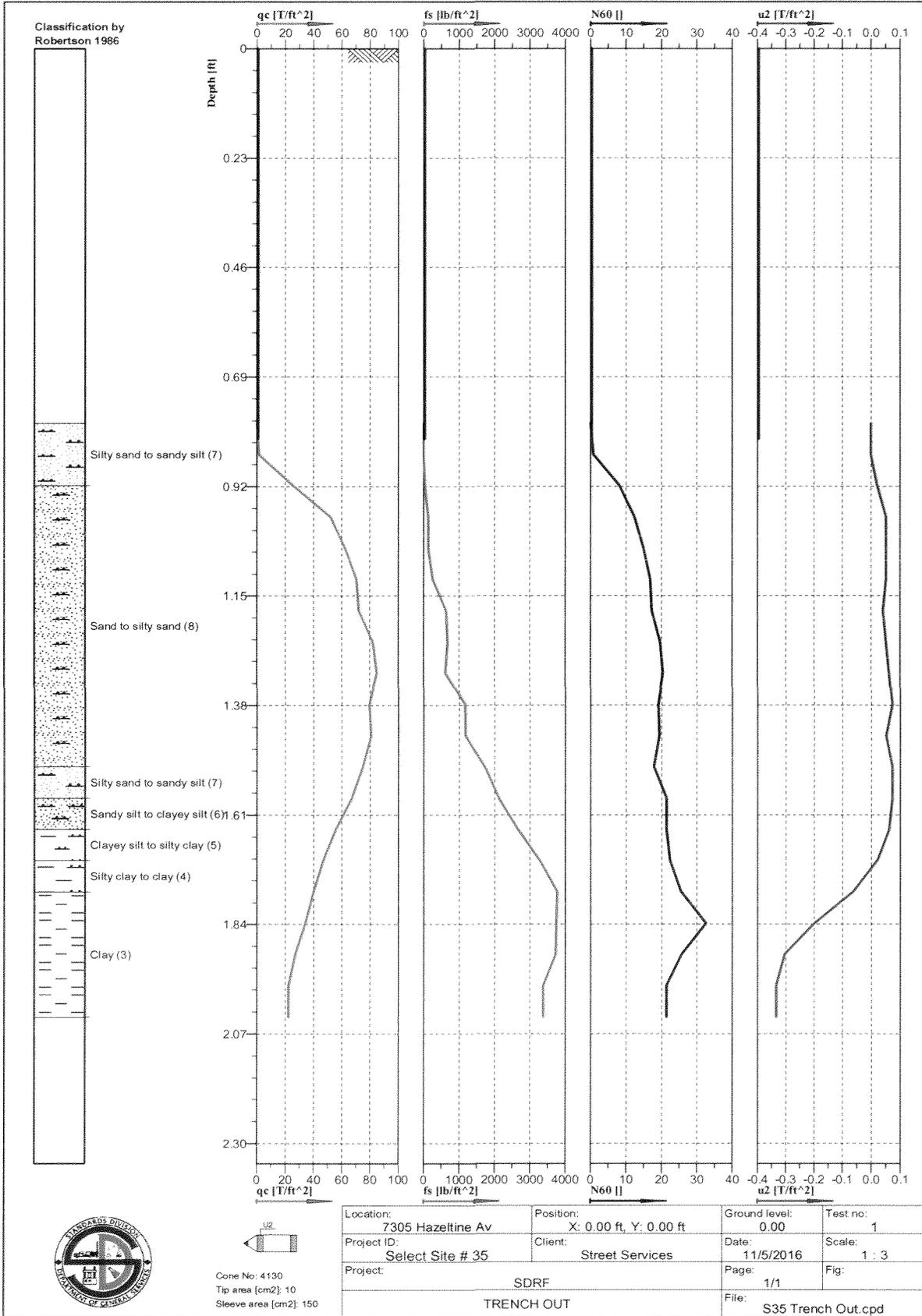


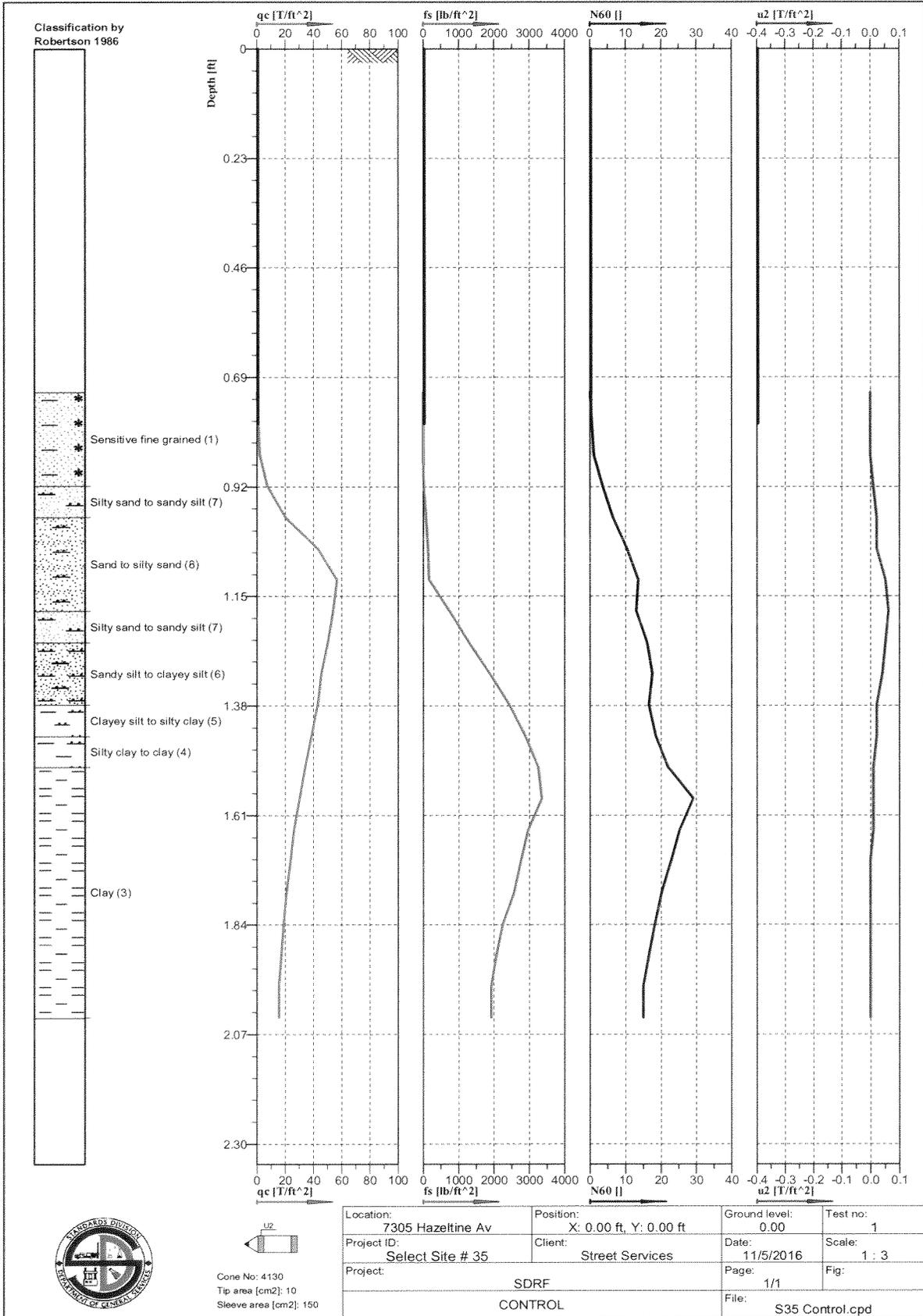


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 7305 Hazeltine Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 35	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF TRENCH IN		Page: 1/1	Fig: 1 : 3
		File: S35 Trench In.cpd	

Lab No.: 17-741-173

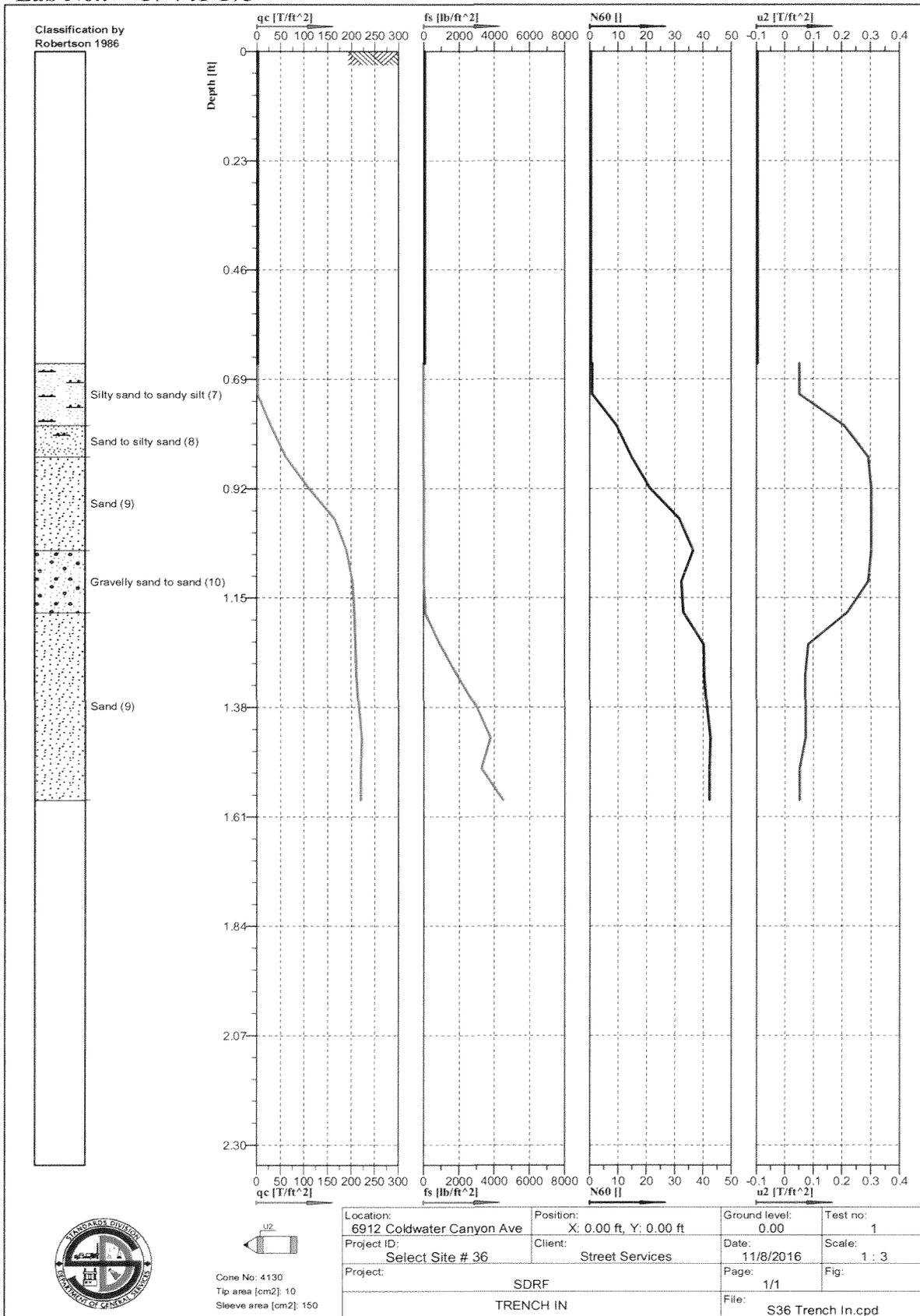


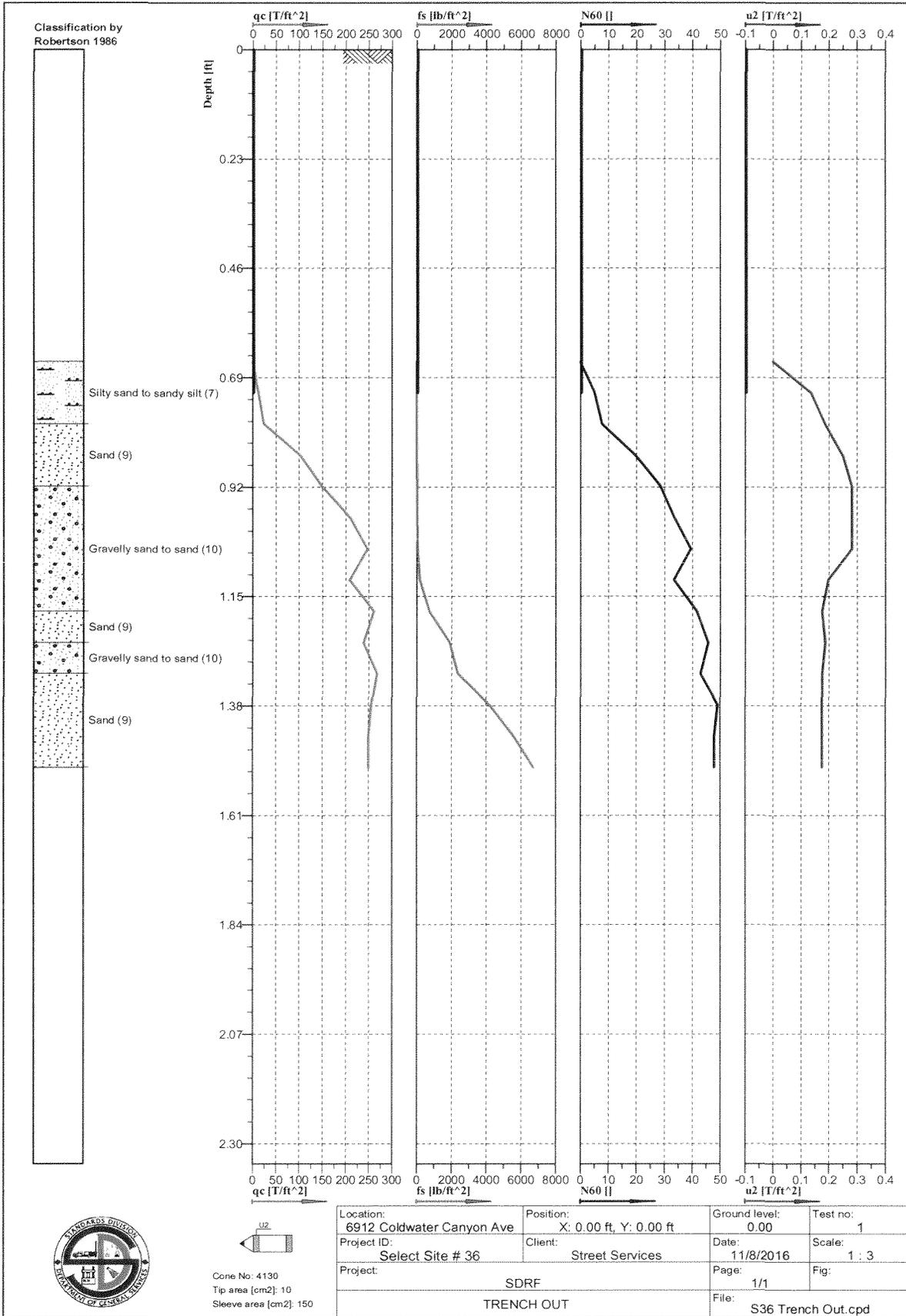


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

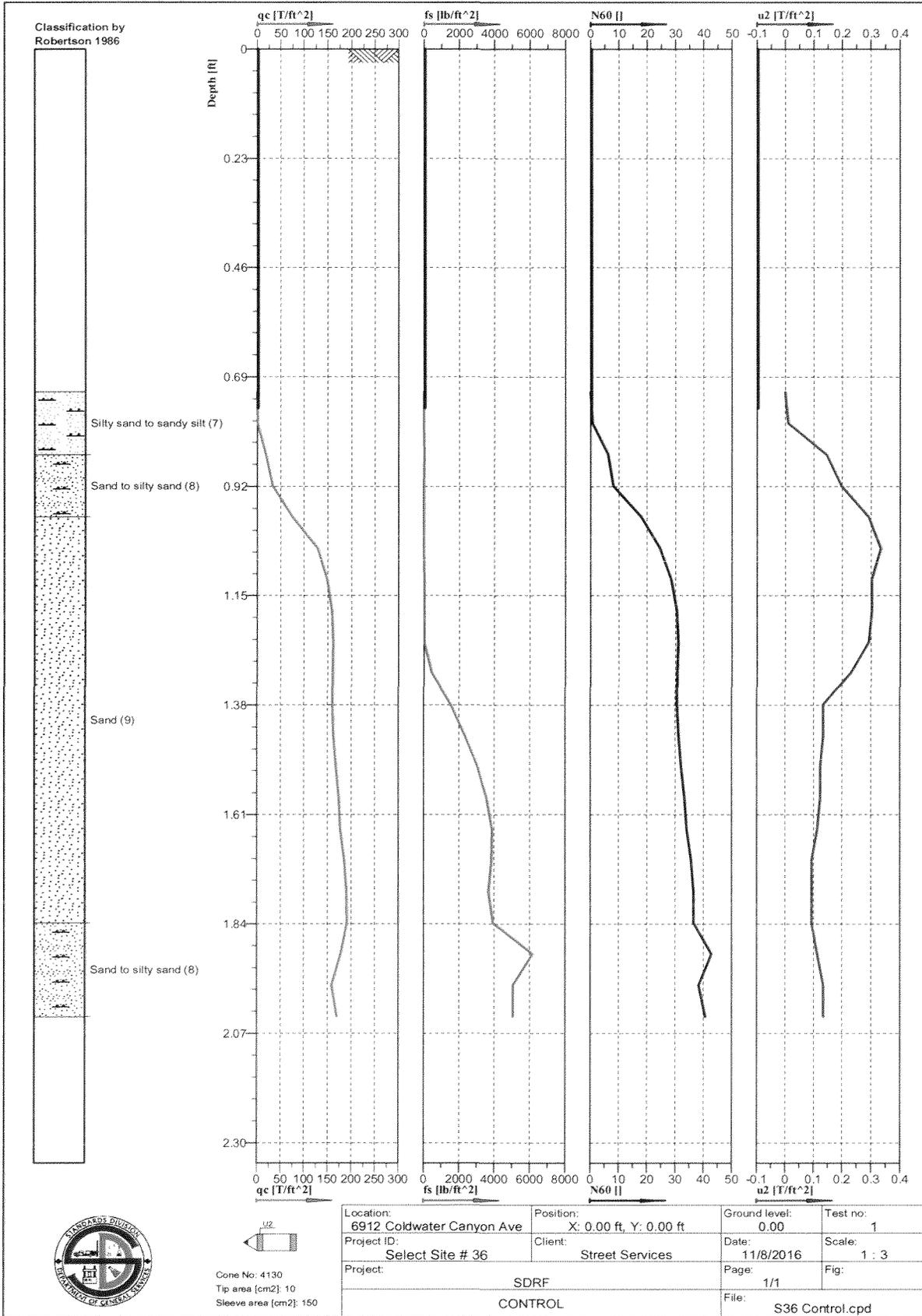
Location: 7305 Hazeltine Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 35	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S35 Control.cpd	

Lab No.: 17-741-175

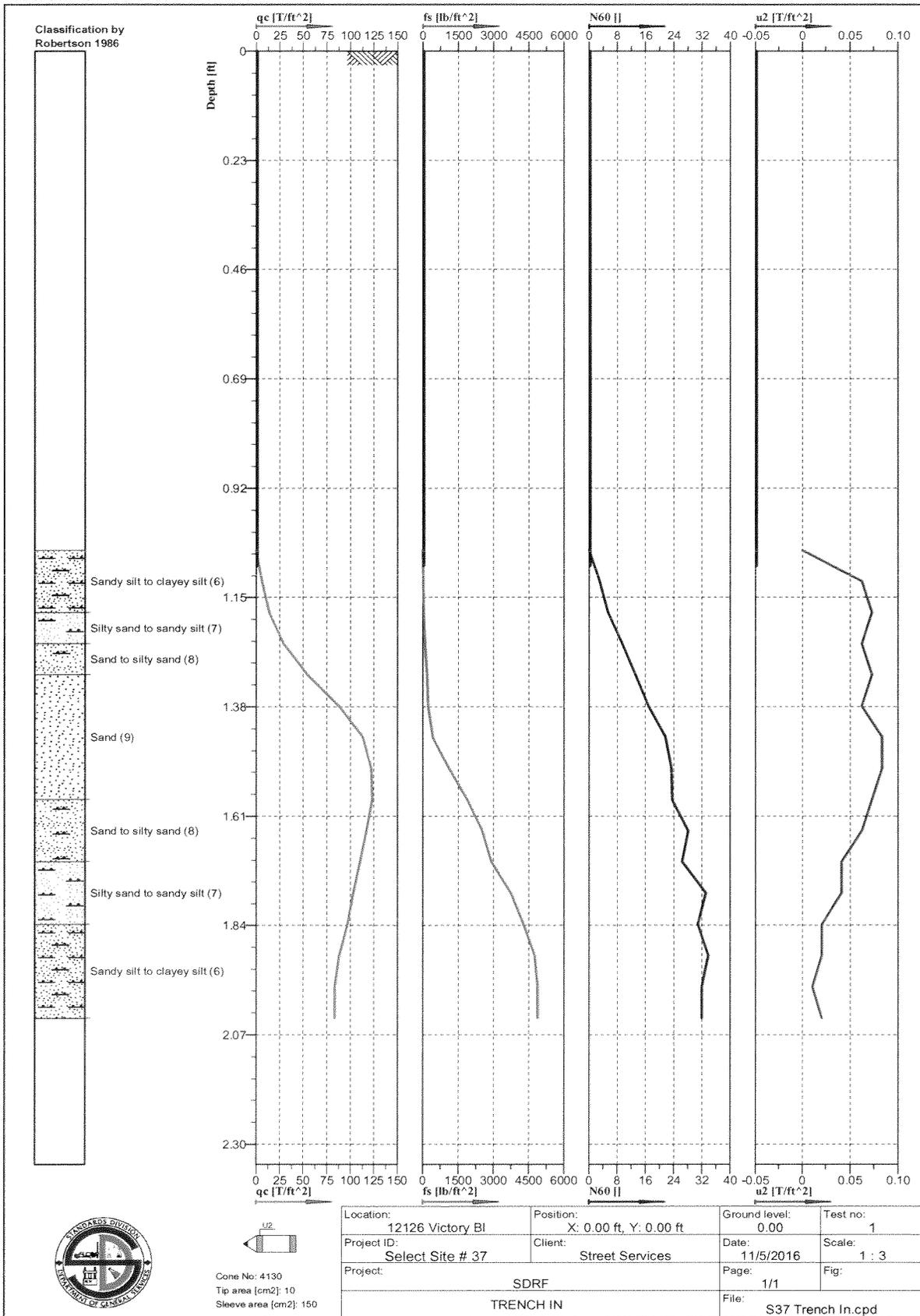




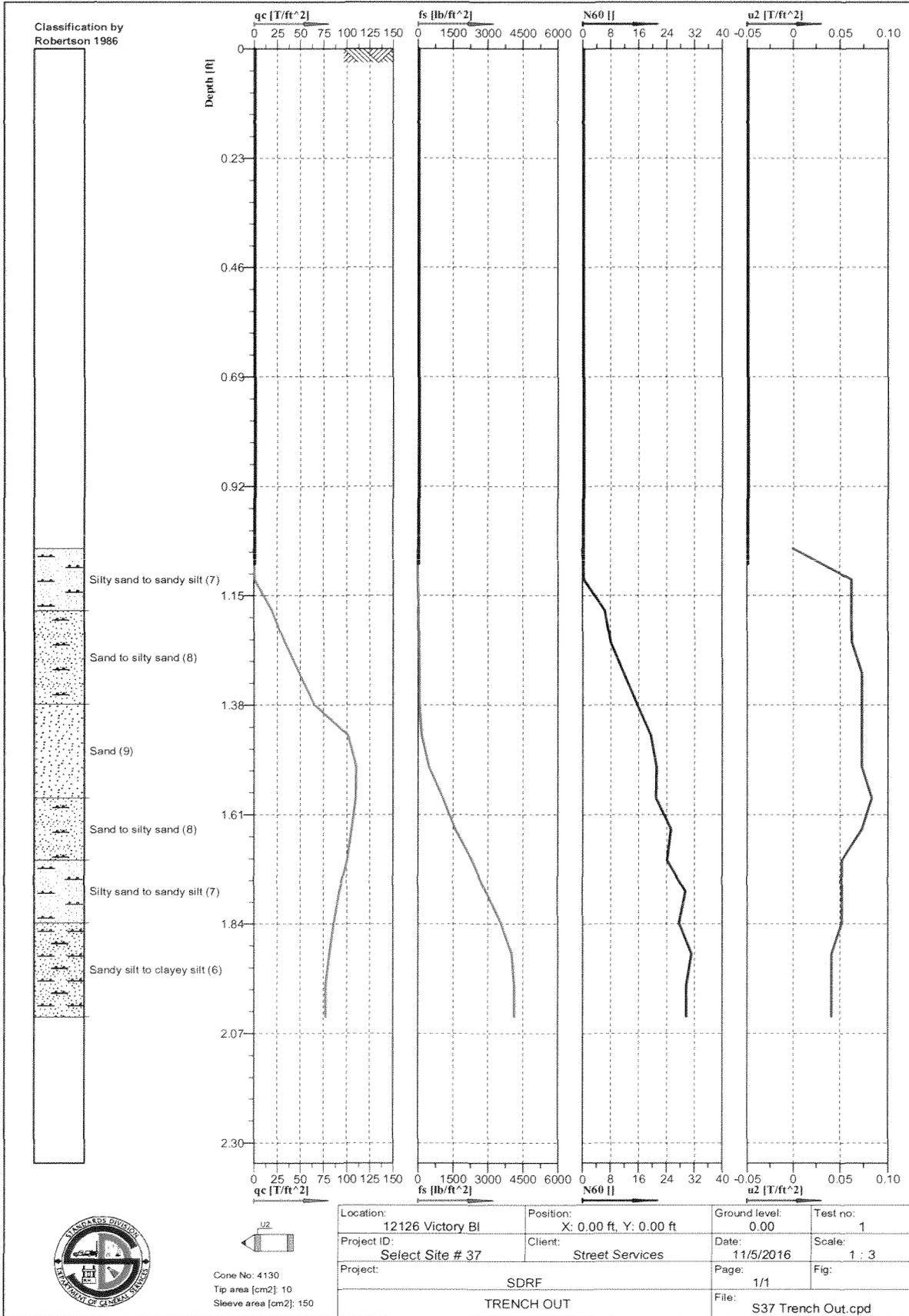
Lab No.: 17-741-177



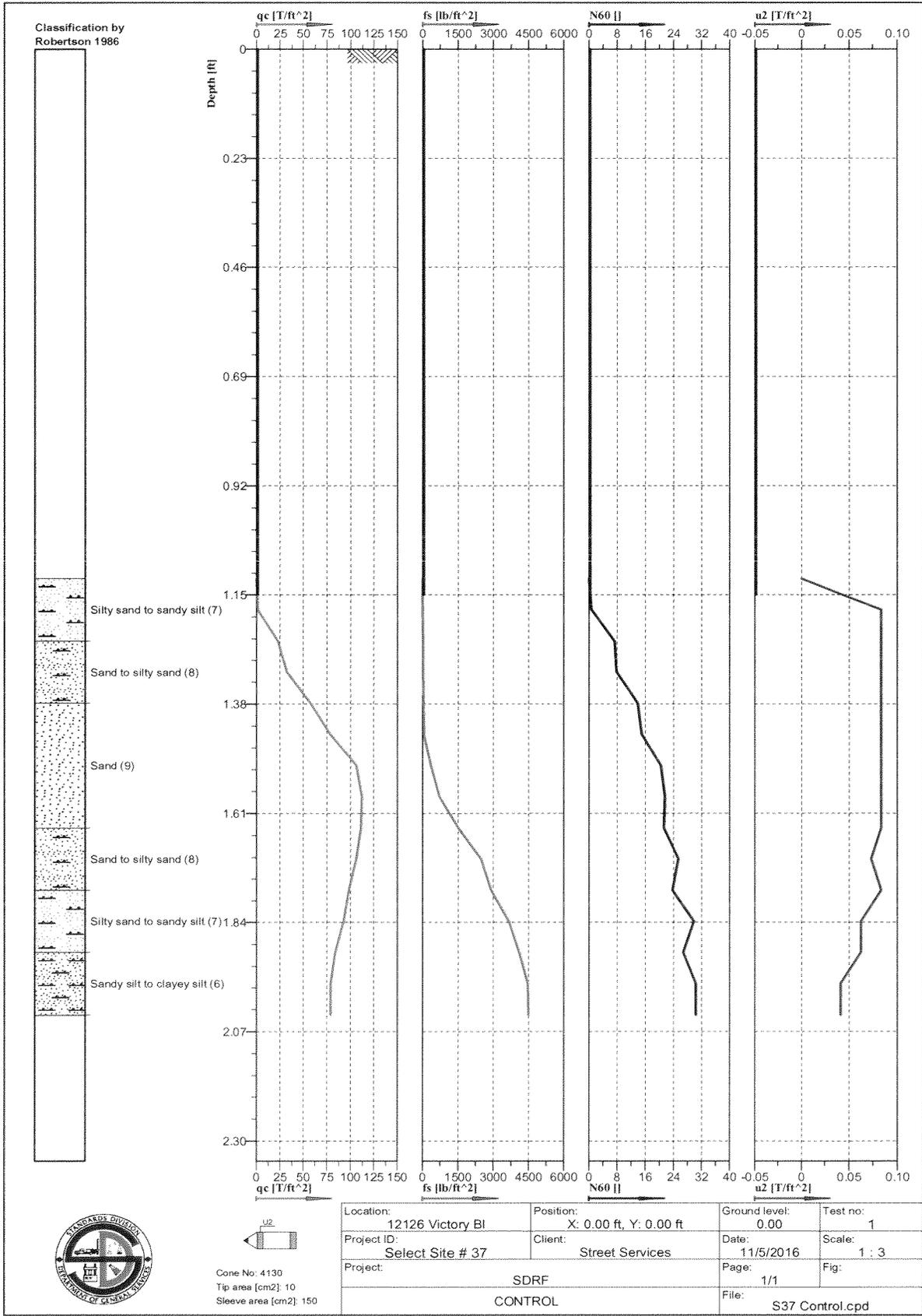
Lab No.: 17-741-178



Lab No.: 17-741-179



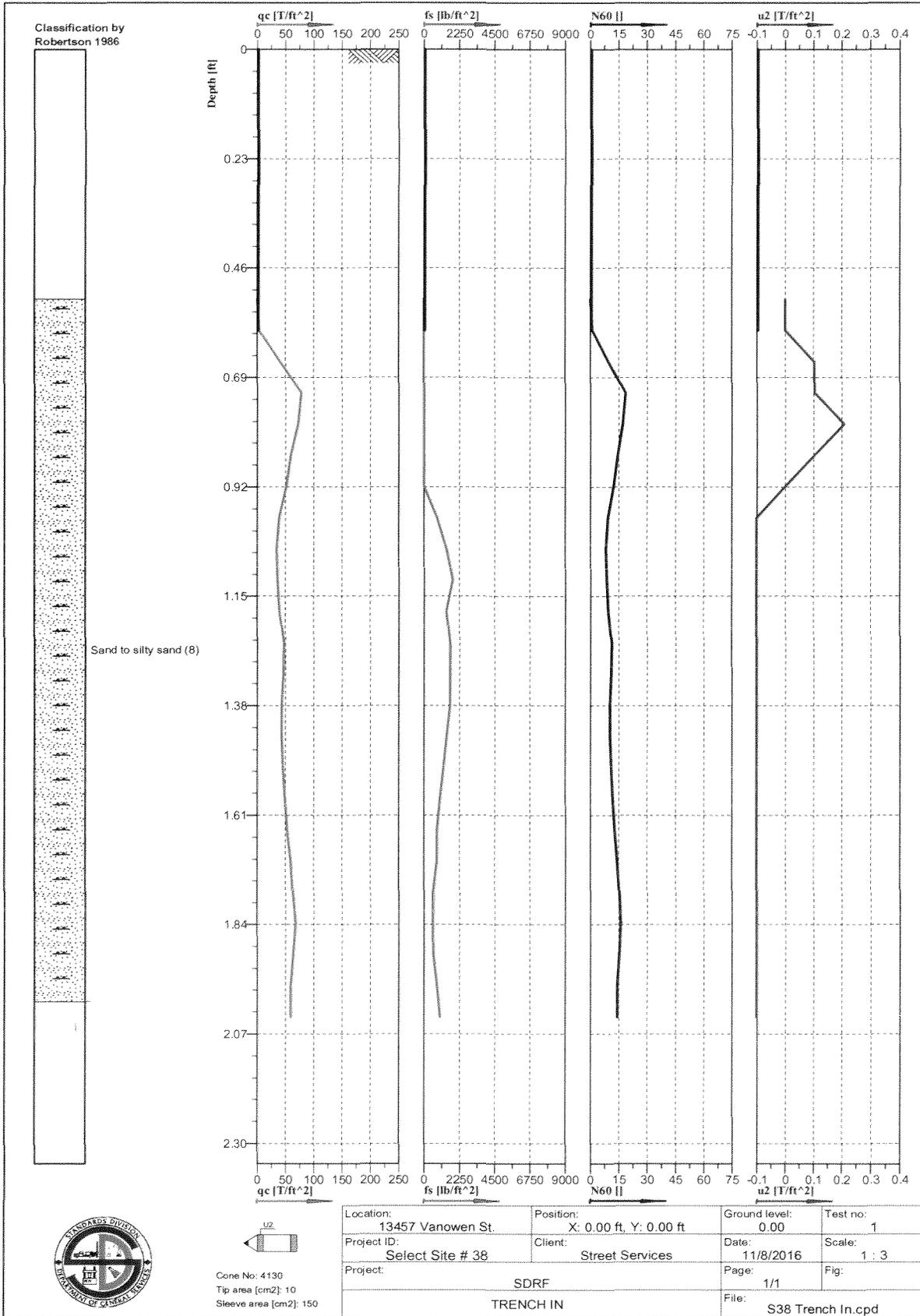
Lab No.: 17-741-180



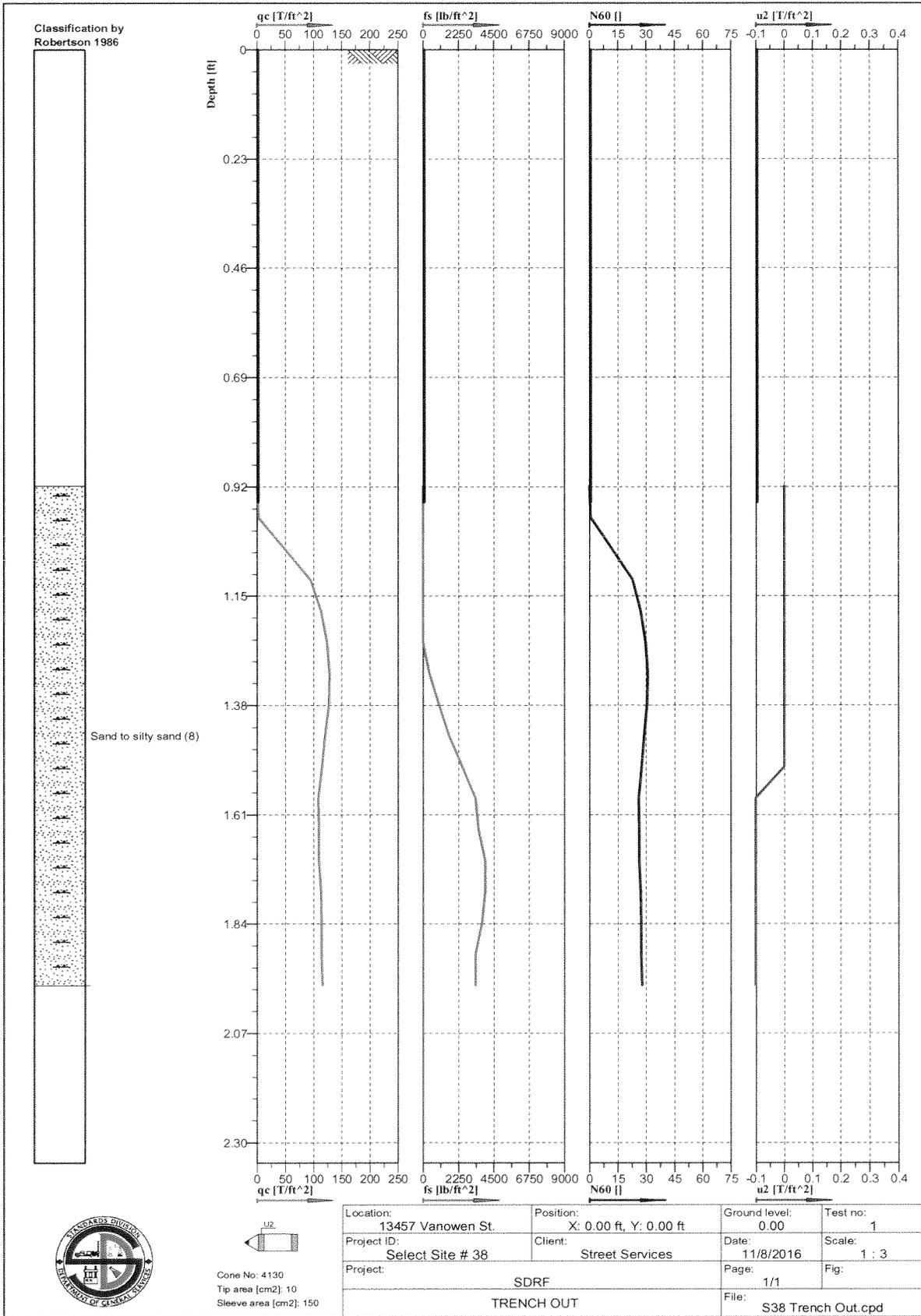
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 12126 Victory Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 37	Client: Street Services	Date: 11/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
CONTROL		File: S37 Control.cpd	

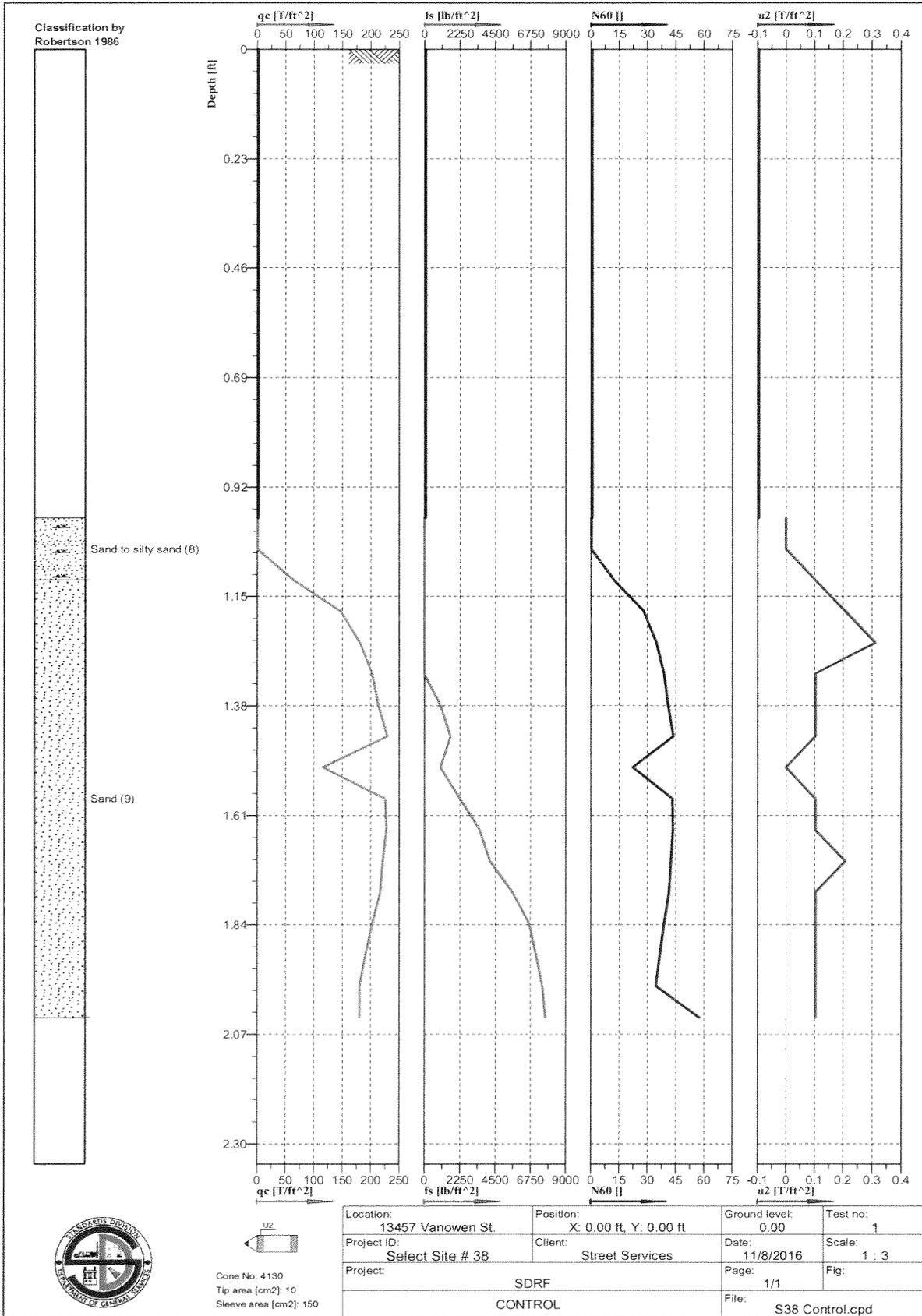
Lab No.: 17-741-181



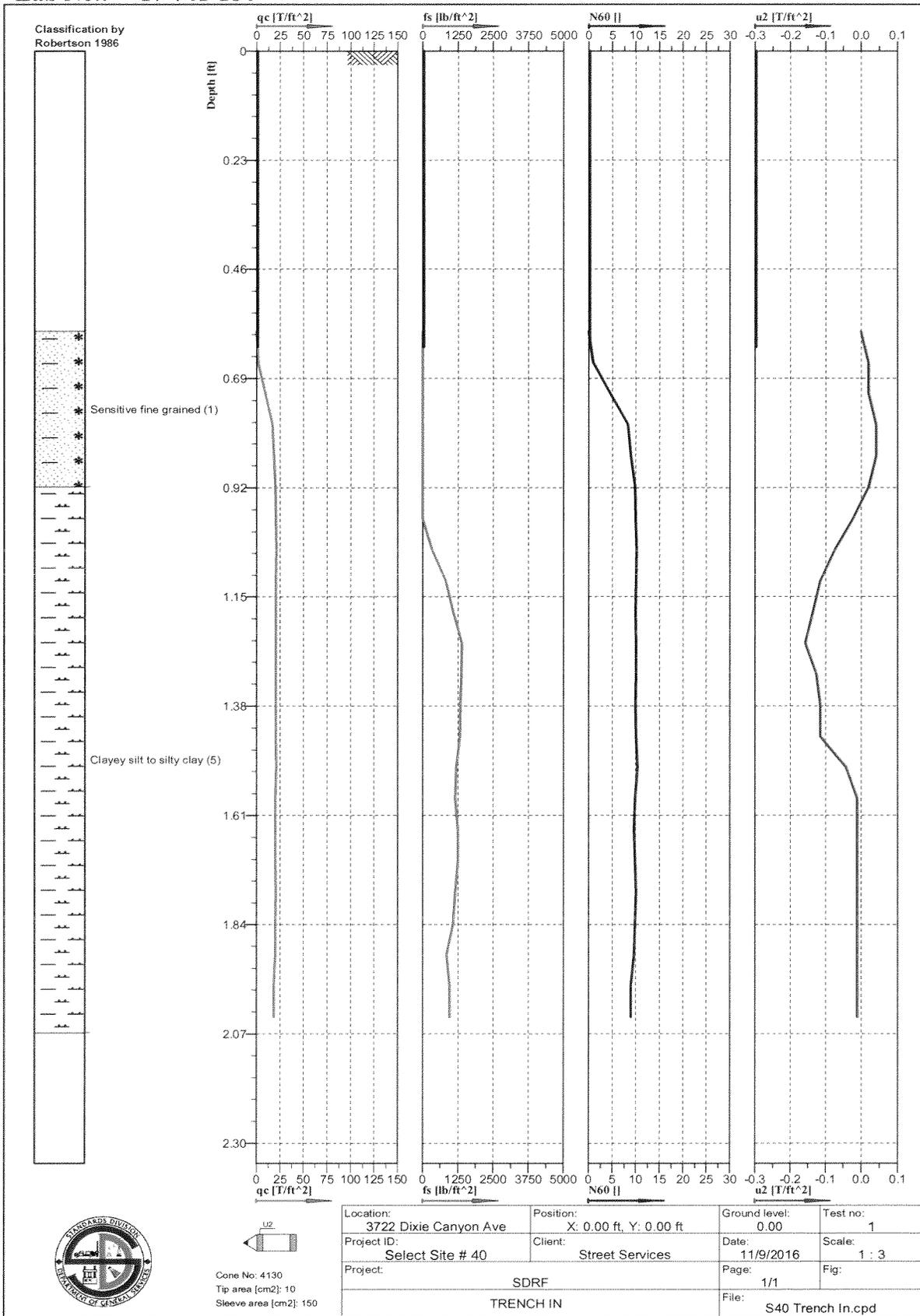
Lab No.: 17-741-182



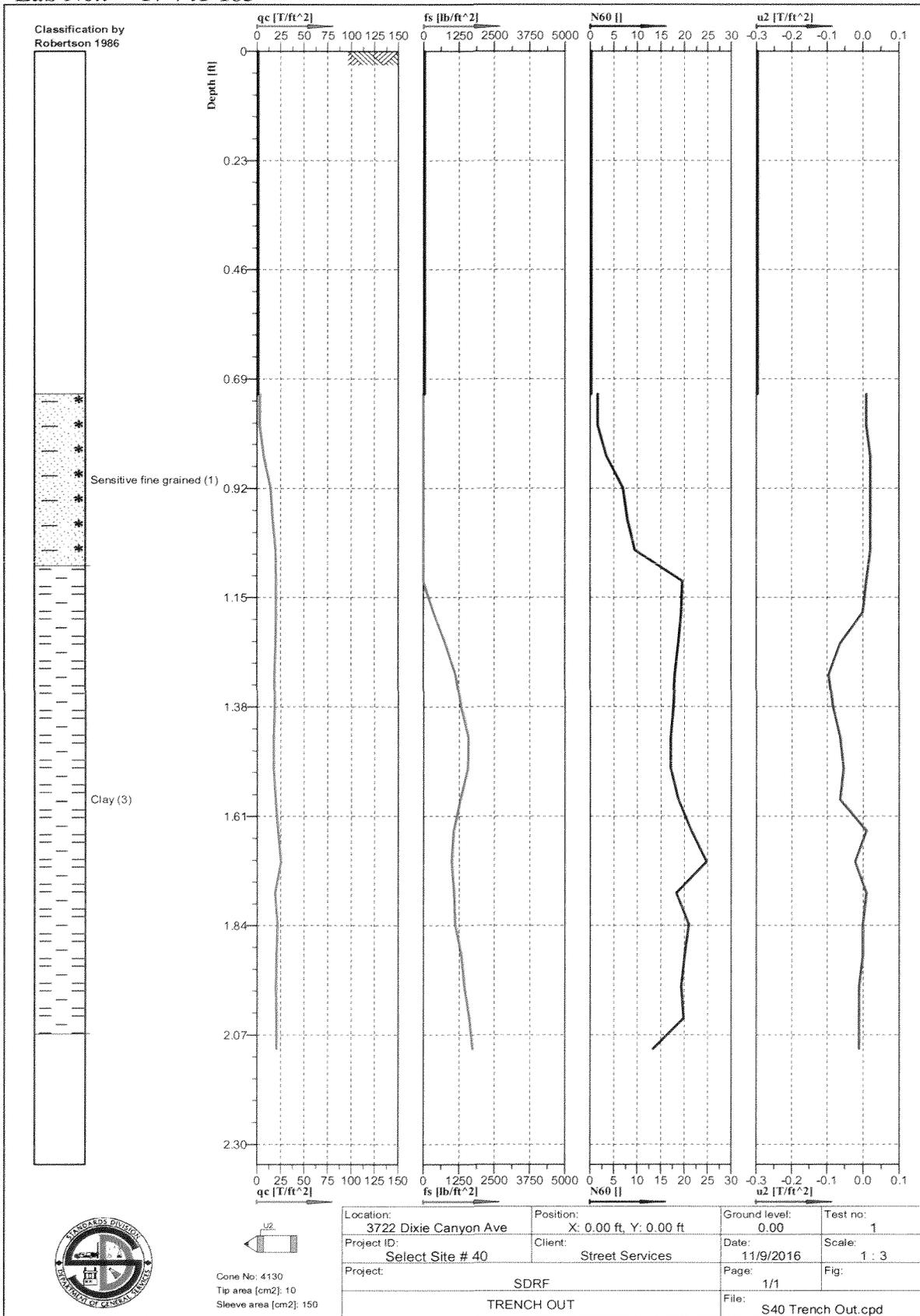
Lab No.: 17-741-183

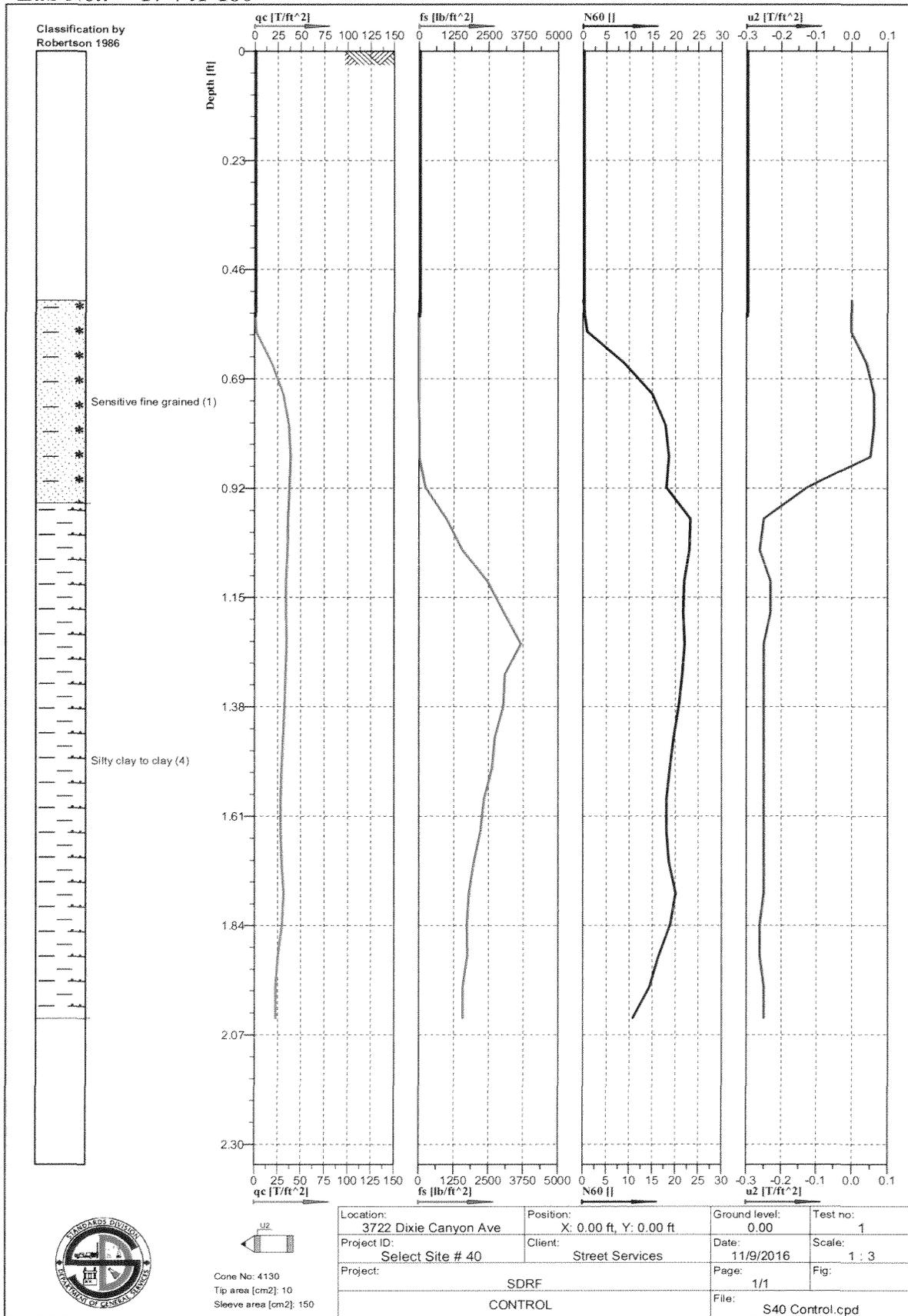


Lab No.: 17-741-184



Lab No.: 17-741-185





Lab No.: 17-741-187

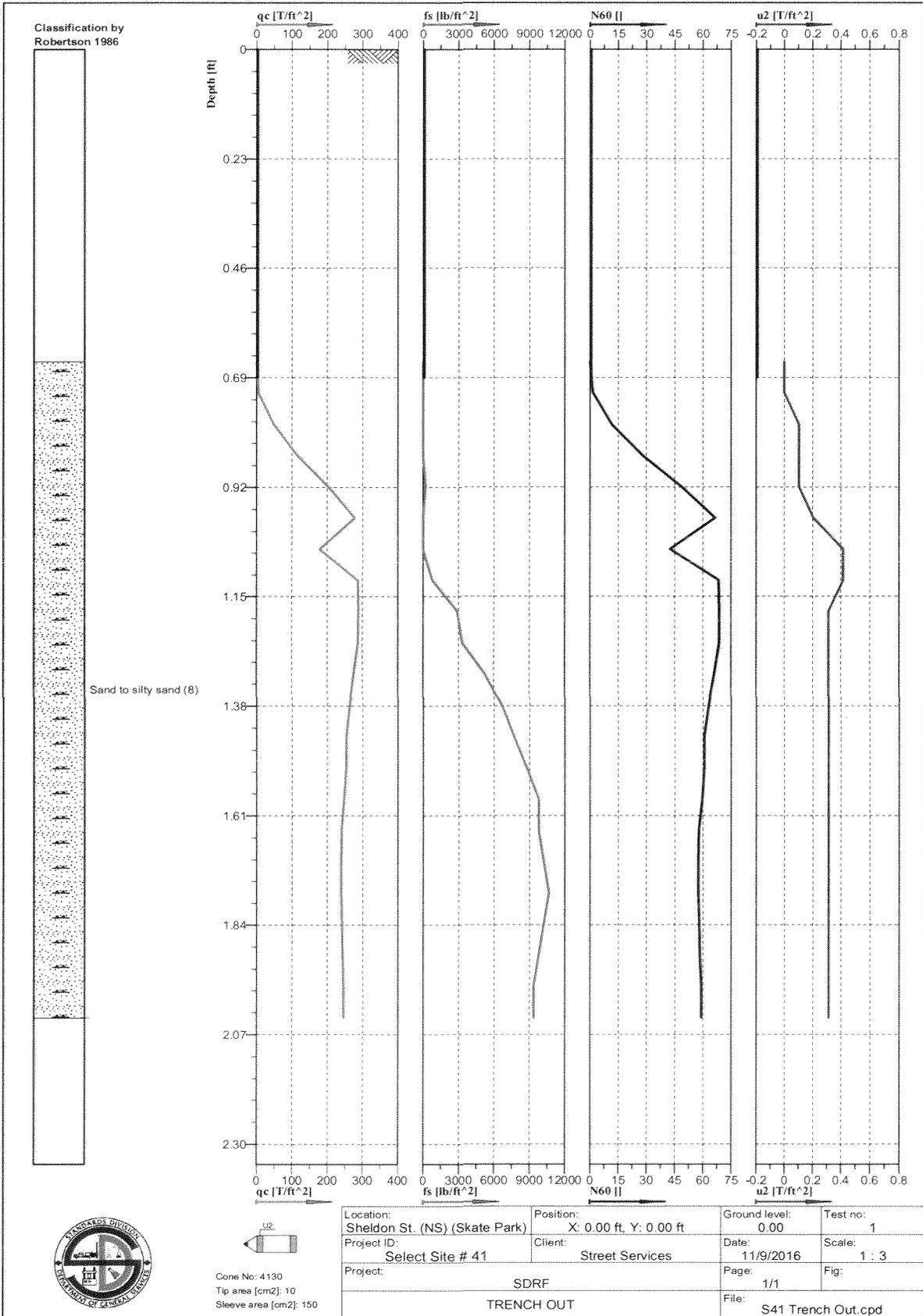
Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

Asphalt thickness = 7.6”.

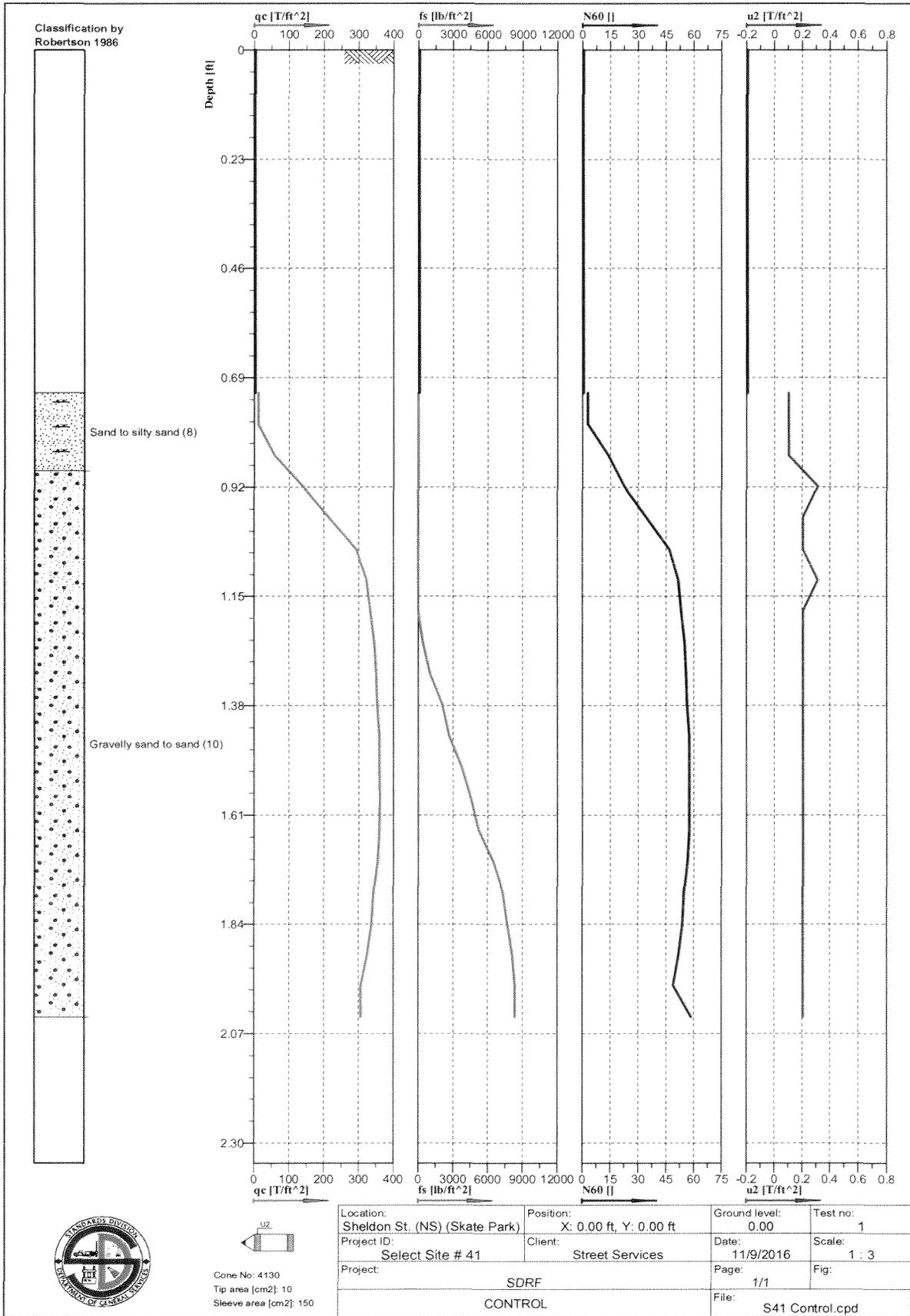


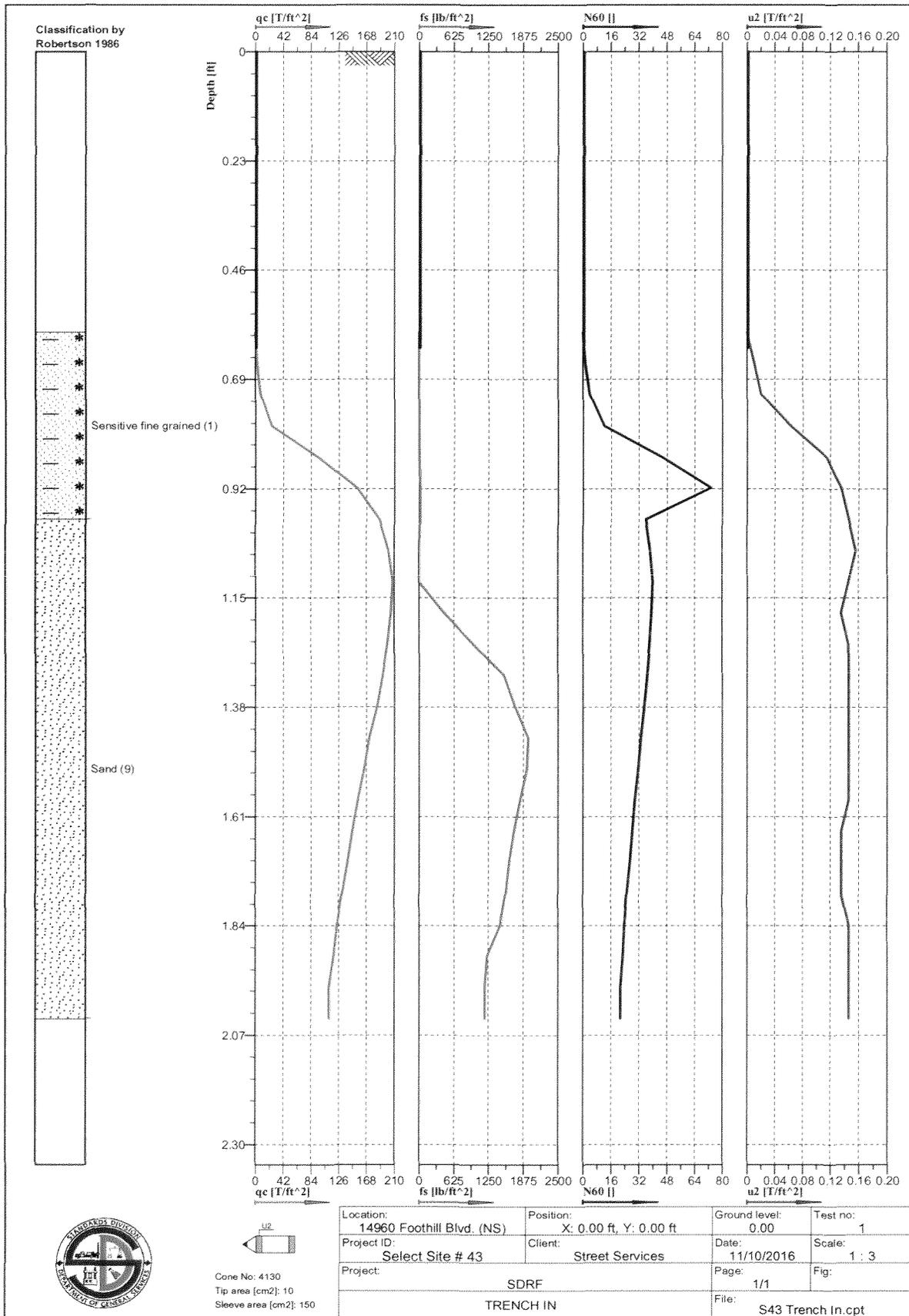
Cone No: 4130
Tip area [cm²]: 10
Sieve area [cm²]: 150

Location: Sheldon St. (NS) (Skate Park)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 41	Client: Street services	Date: 11/9/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S41 Trench In.cpd	



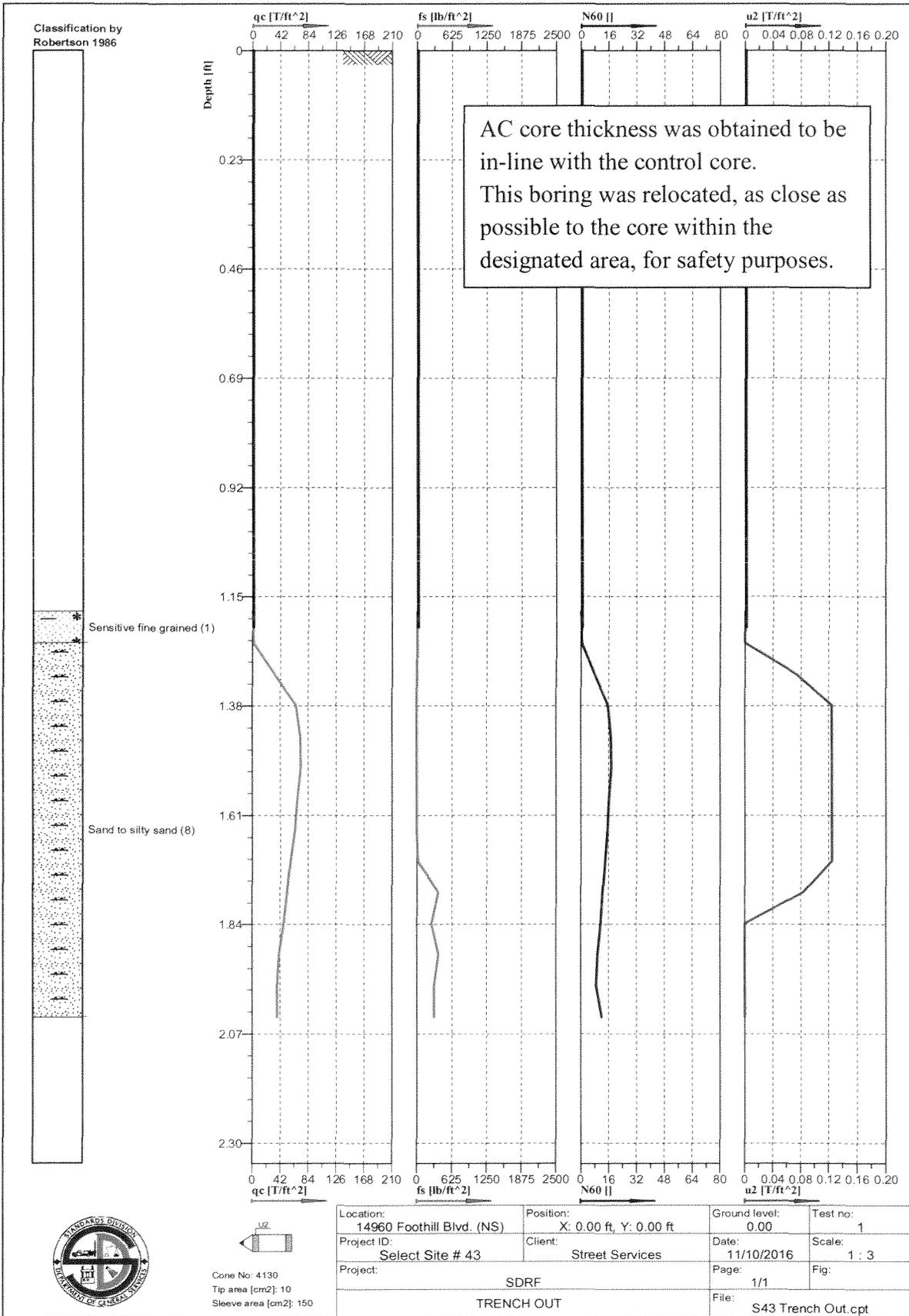
Lab No.: 17-741-189



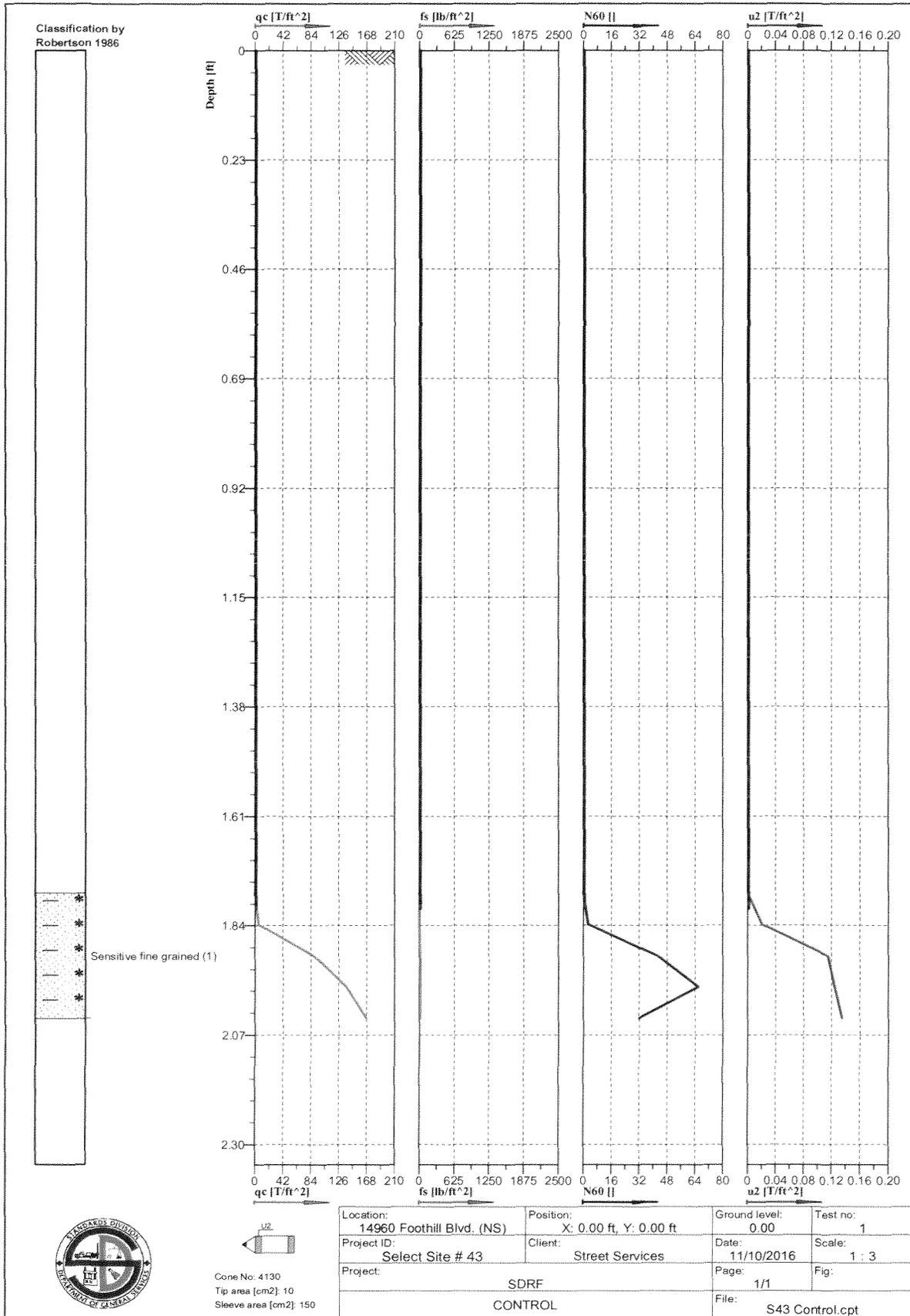


Location: 14960 Foothill Blvd. (NS)	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 43	Client: Street Services	Date: 11/10/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1
TRENCH IN		File: S43 Trench In.cpt	

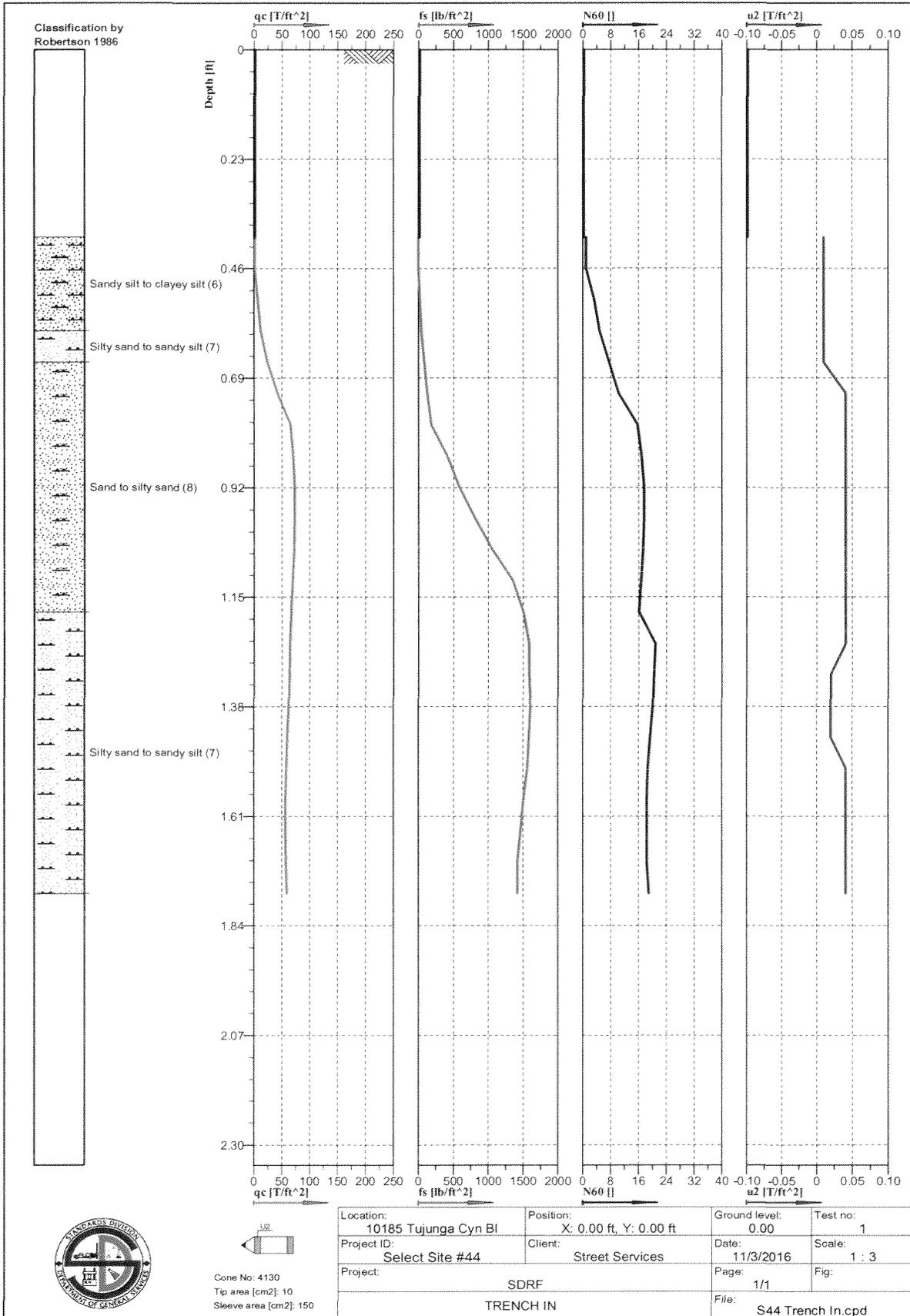
Lab No.: 17-741-191



Lab No.: 17-741-192



Lab No.: 17-741-193



Lab No.: 17-741-194

Could not penetrate sandstone layer. No CPTU performed.

Asphalt thickness = 10.5".



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: 10185 Tujunga Cyn	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site #44	Client: Street Services	Date: 11/3/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S44 Trench Out.cpd	

Lab No.: 17-741-195

Could not penetrate sandstone layer. No CPTU performed.

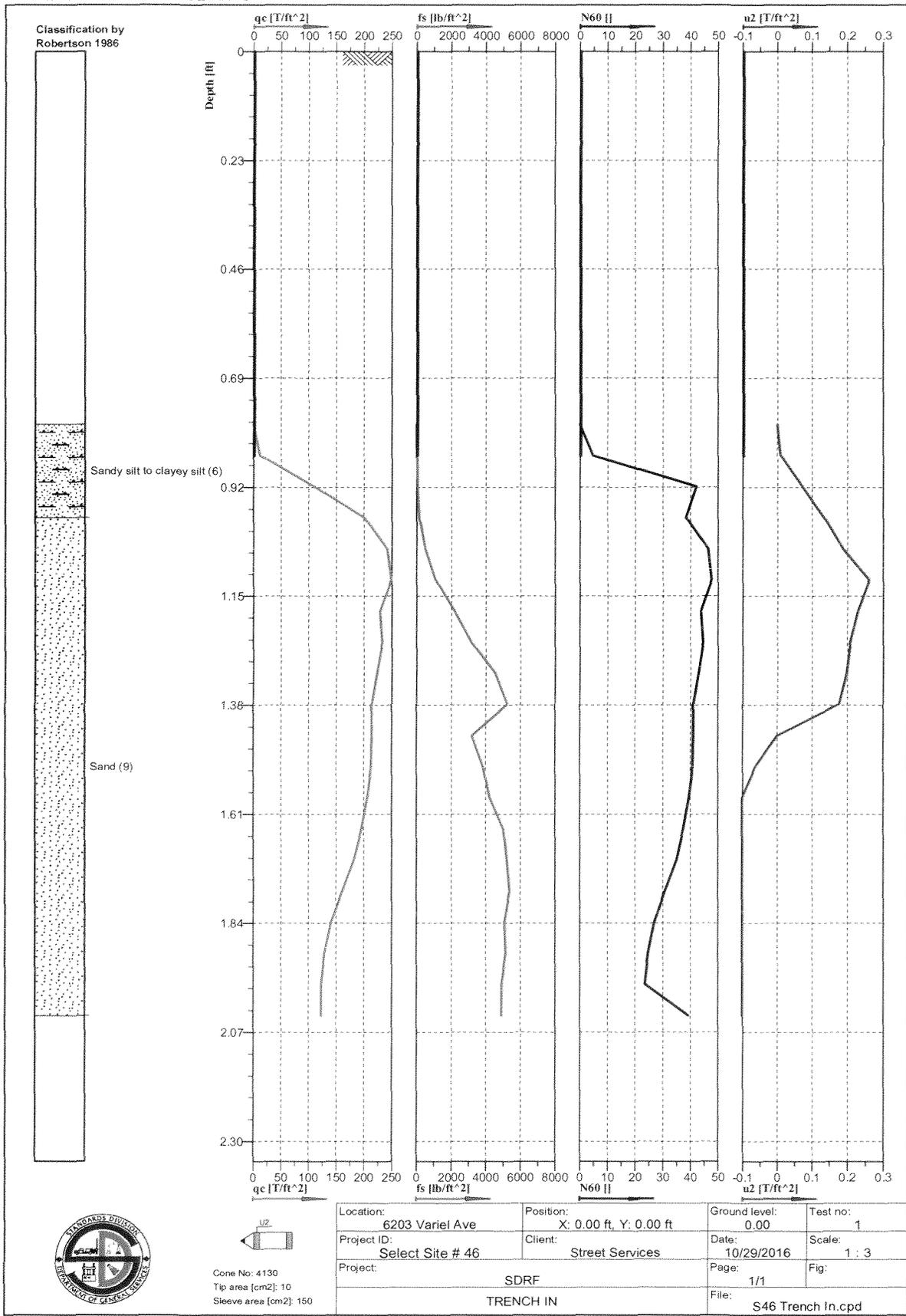
Asphalt thickness = 11.0”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

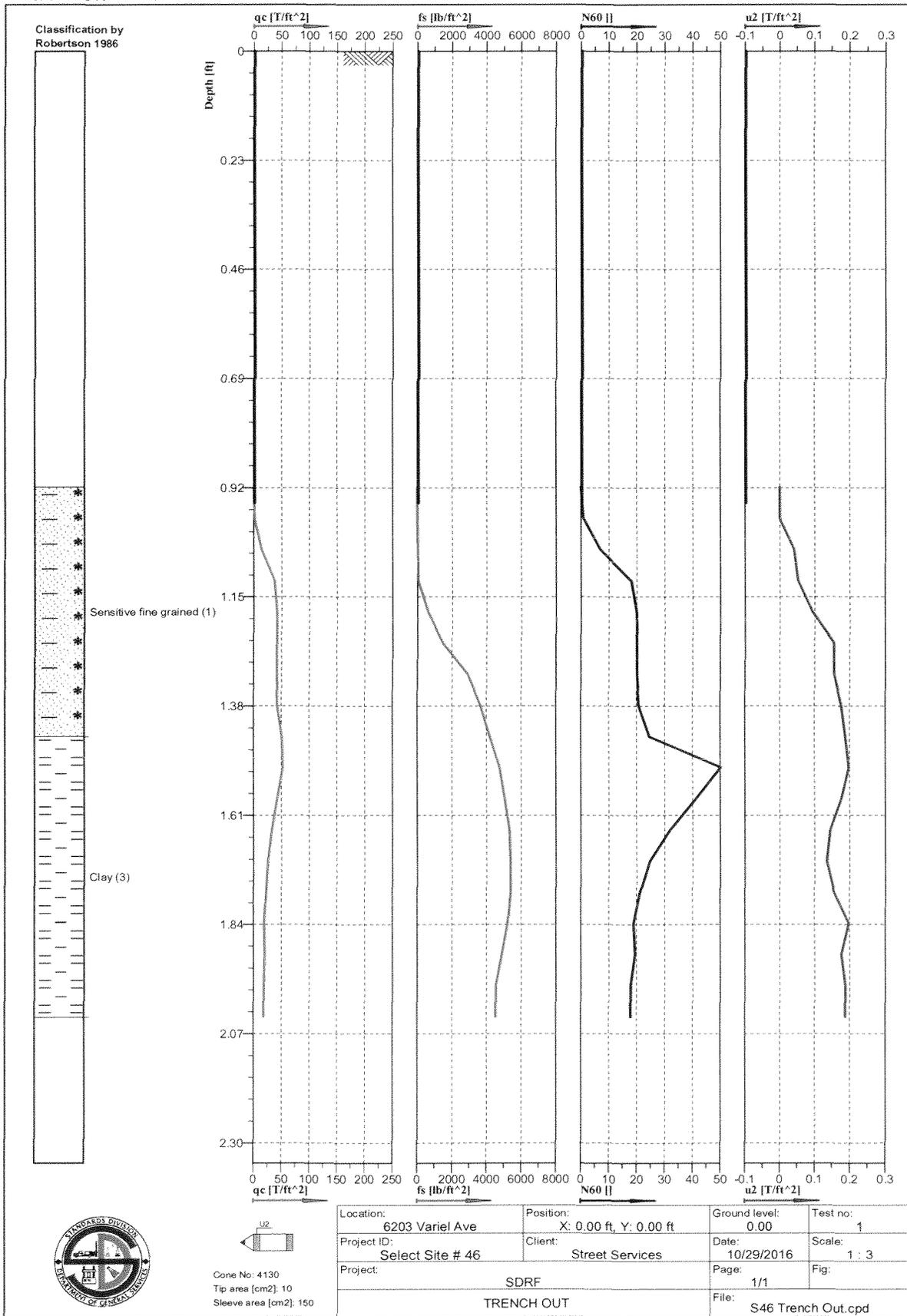
Location: 10185 Tujunga Canyon Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 44	Client: Street Services	Date: 11/3/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S44 Control.cpt	

Lab No.: 17-741-196

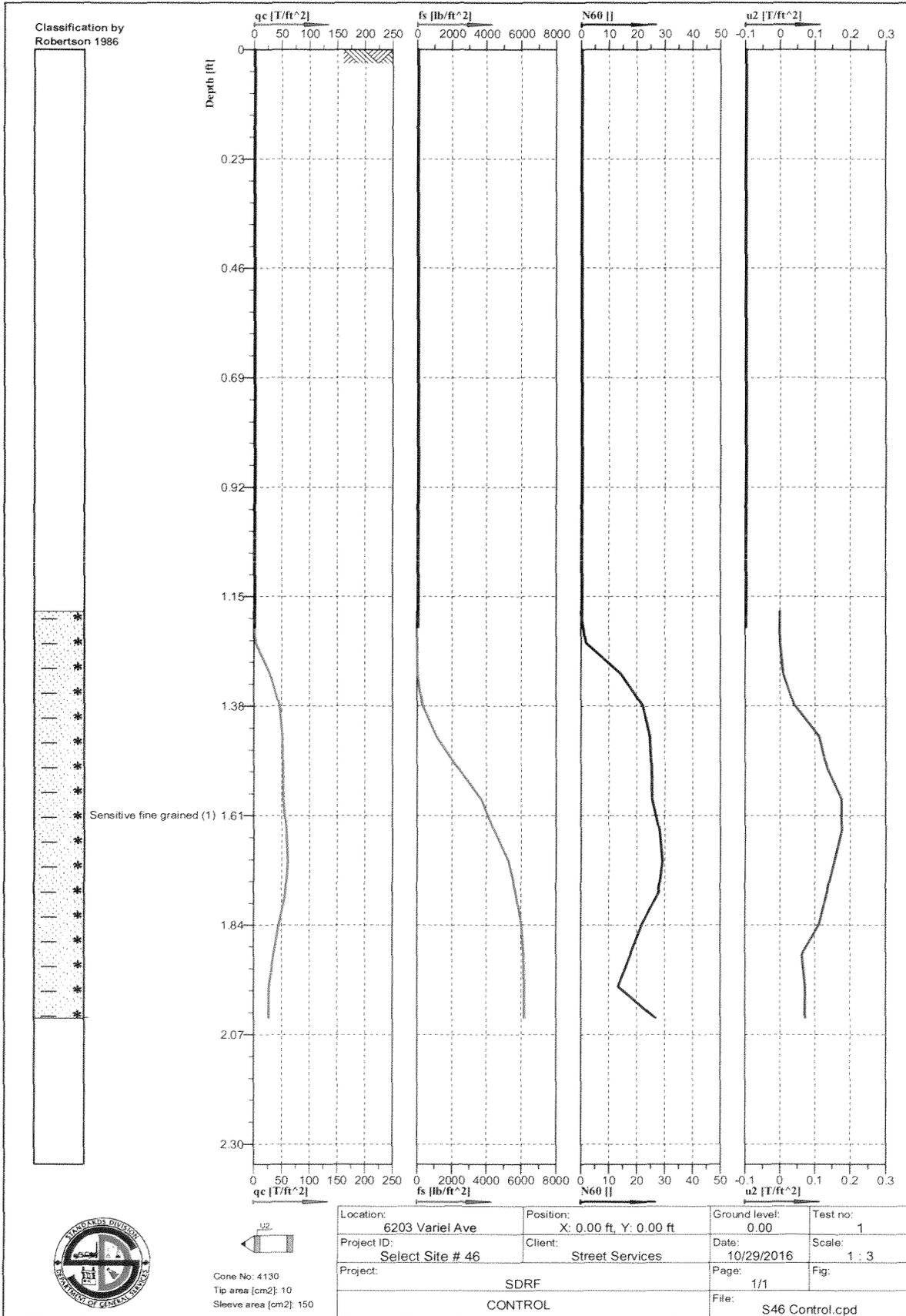


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

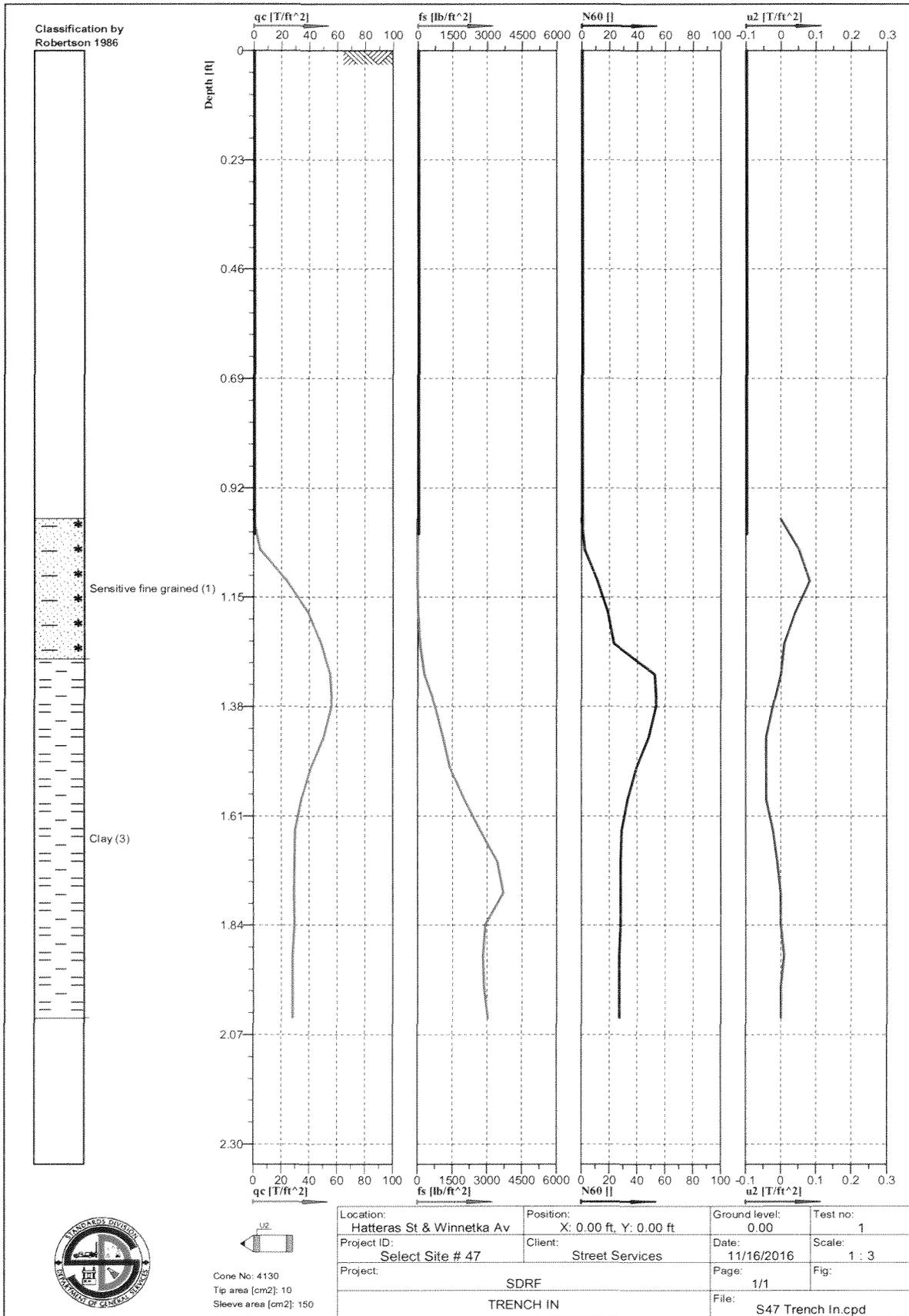
Lab No.: 17-741-197



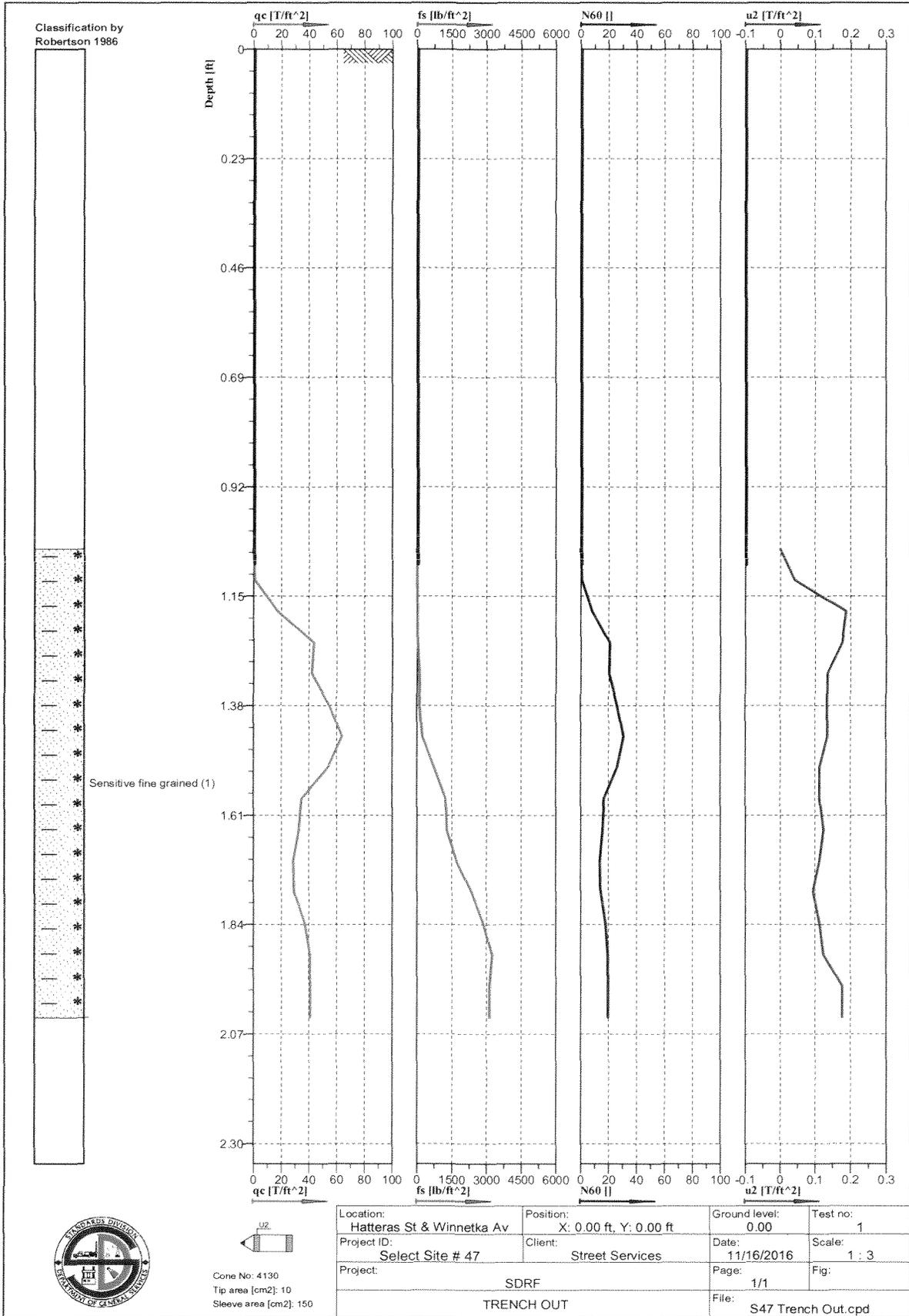
Lab No.: 17-741-198



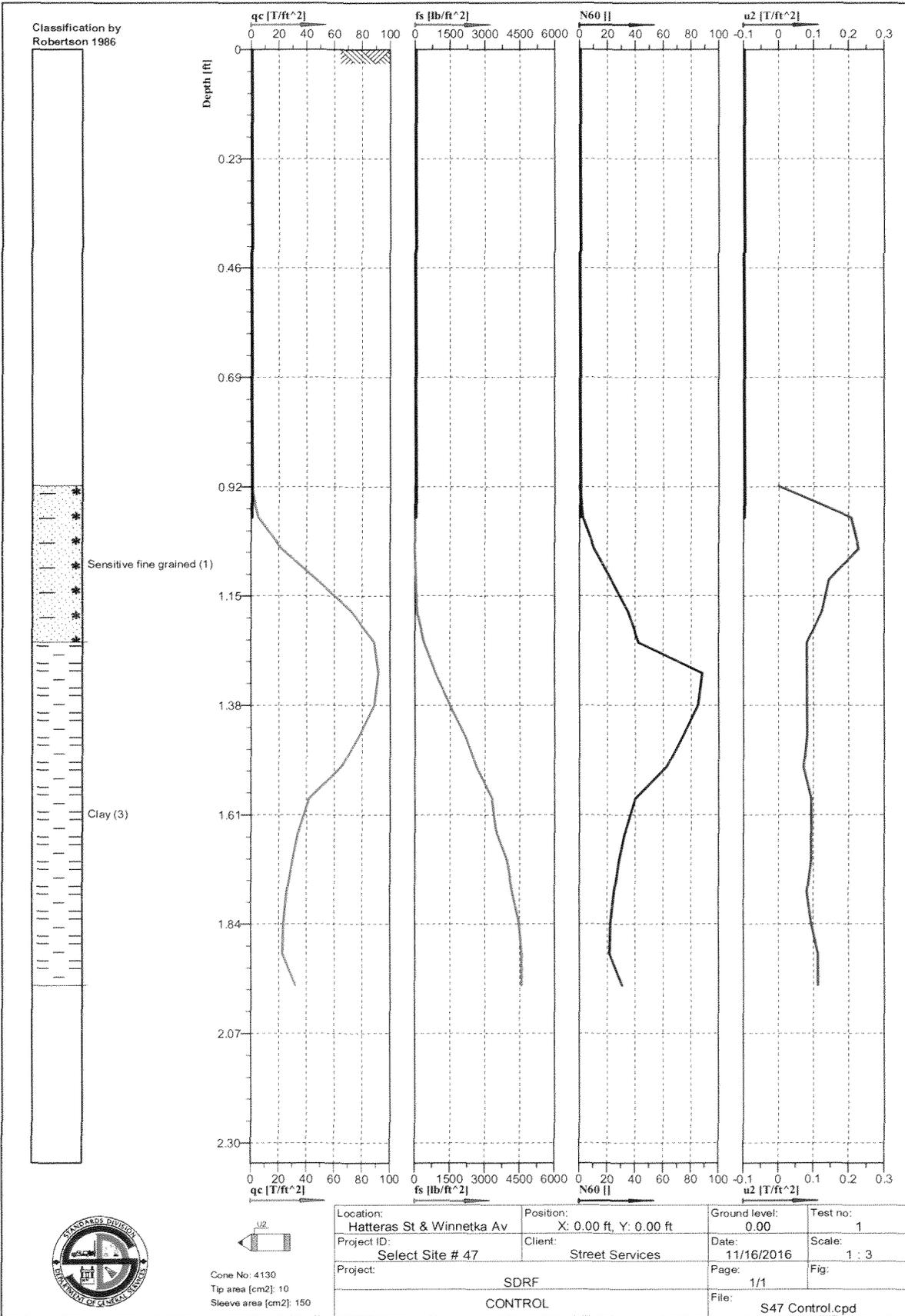
Lab No.: 17-741-199



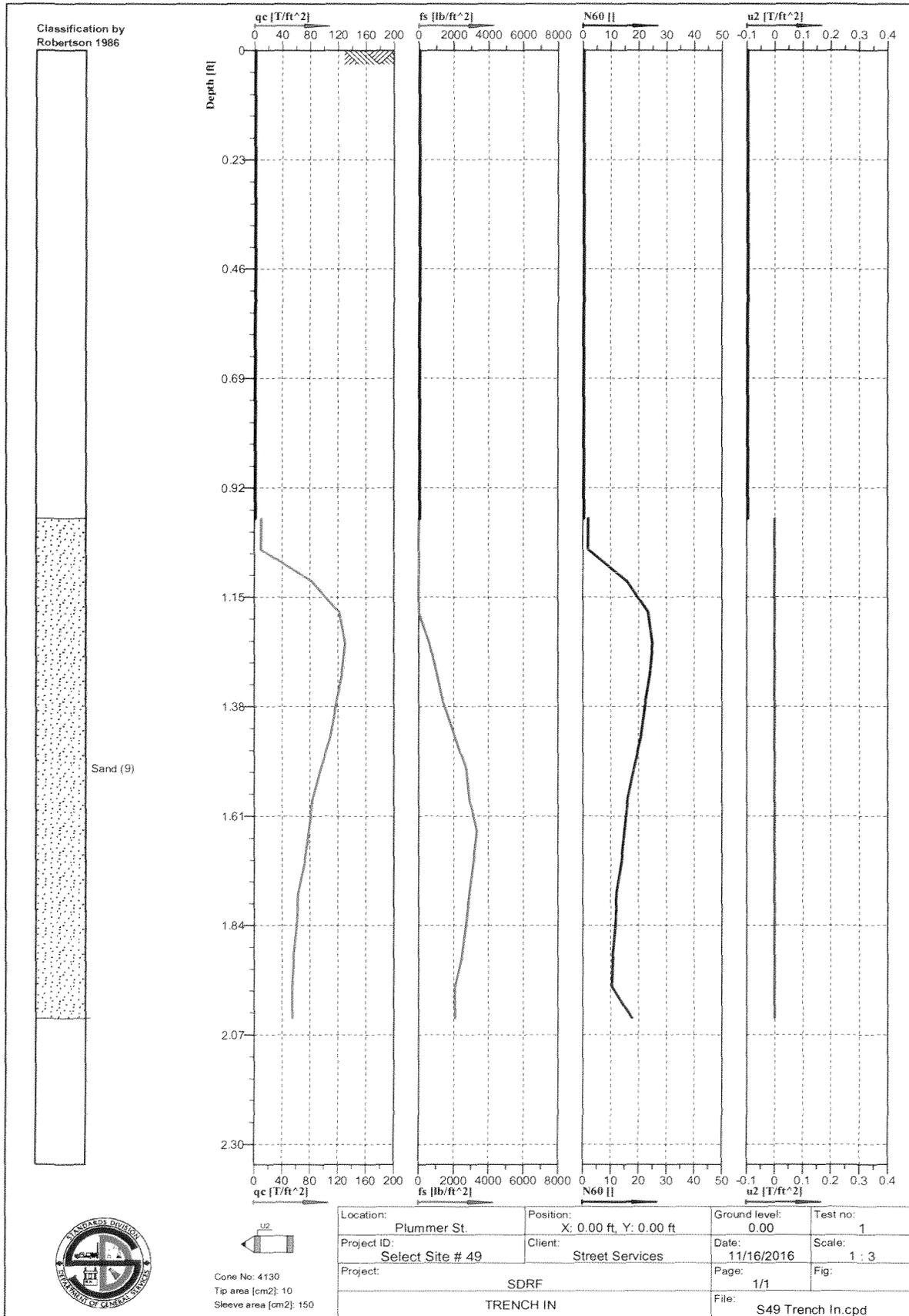
Lab No.: 17-741-200



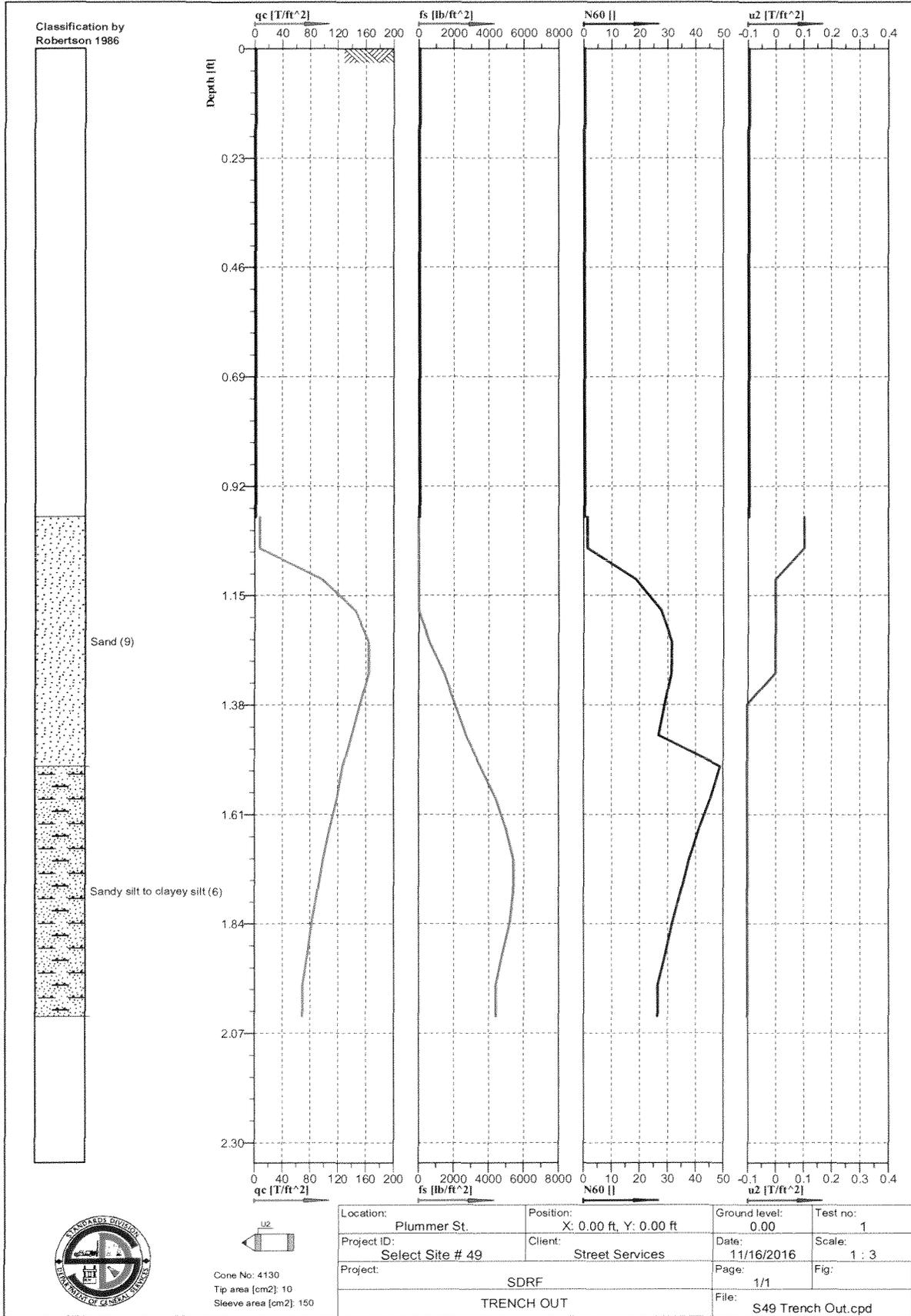
Lab No.: 17-741-201



Lab No.: 17-741-202



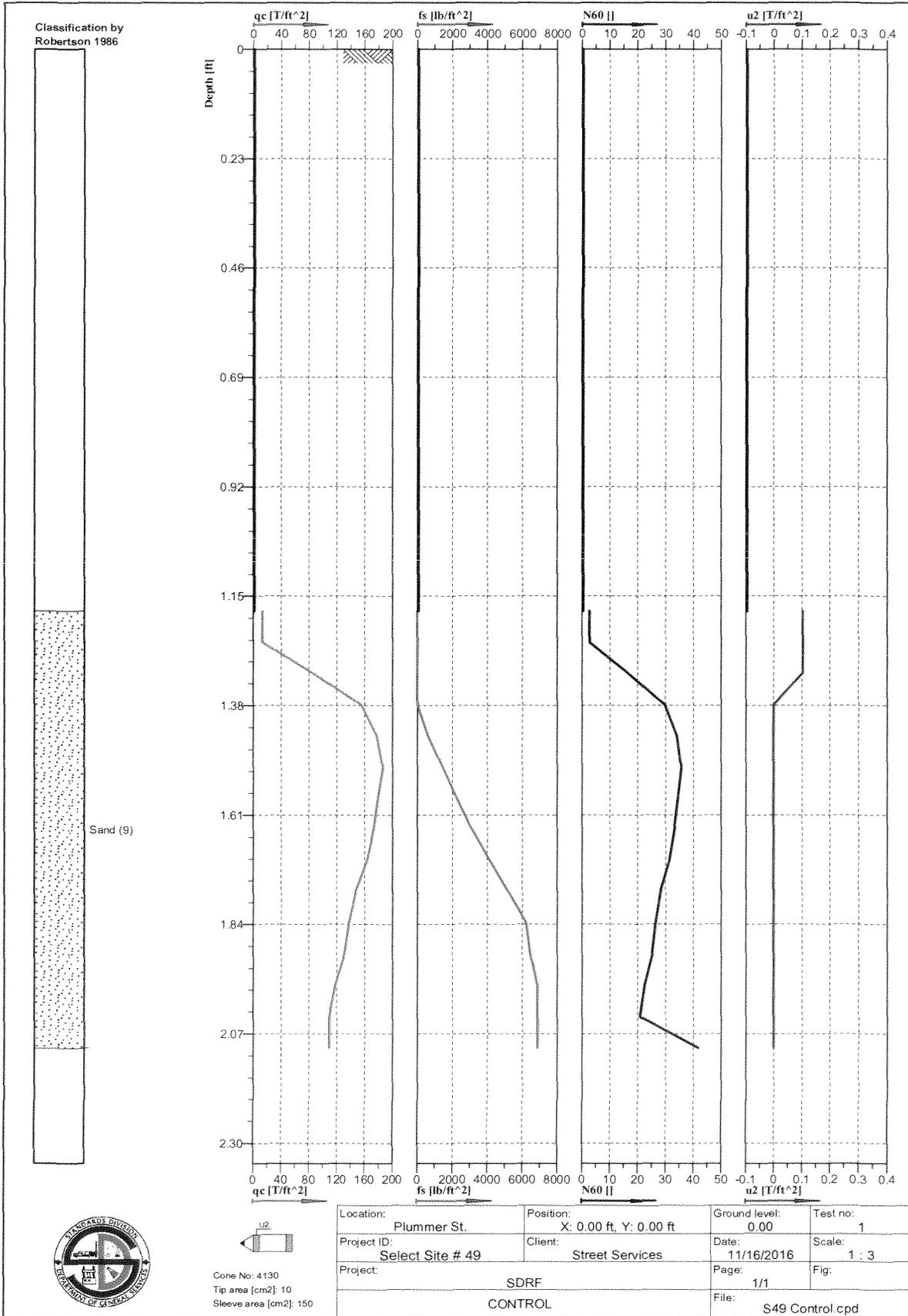
Lab No.: 17-741-203



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location:	Plummer St.	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Select Site # 49	Client:	Street Services	Date:	11/16/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH OUT			File:	S49 Trench Out.cpd		

Lab No.: 17-741-204



u2

Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Plummer St.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 49	Client: Street Services	Date: 11/16/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S49 Control.cpd	

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

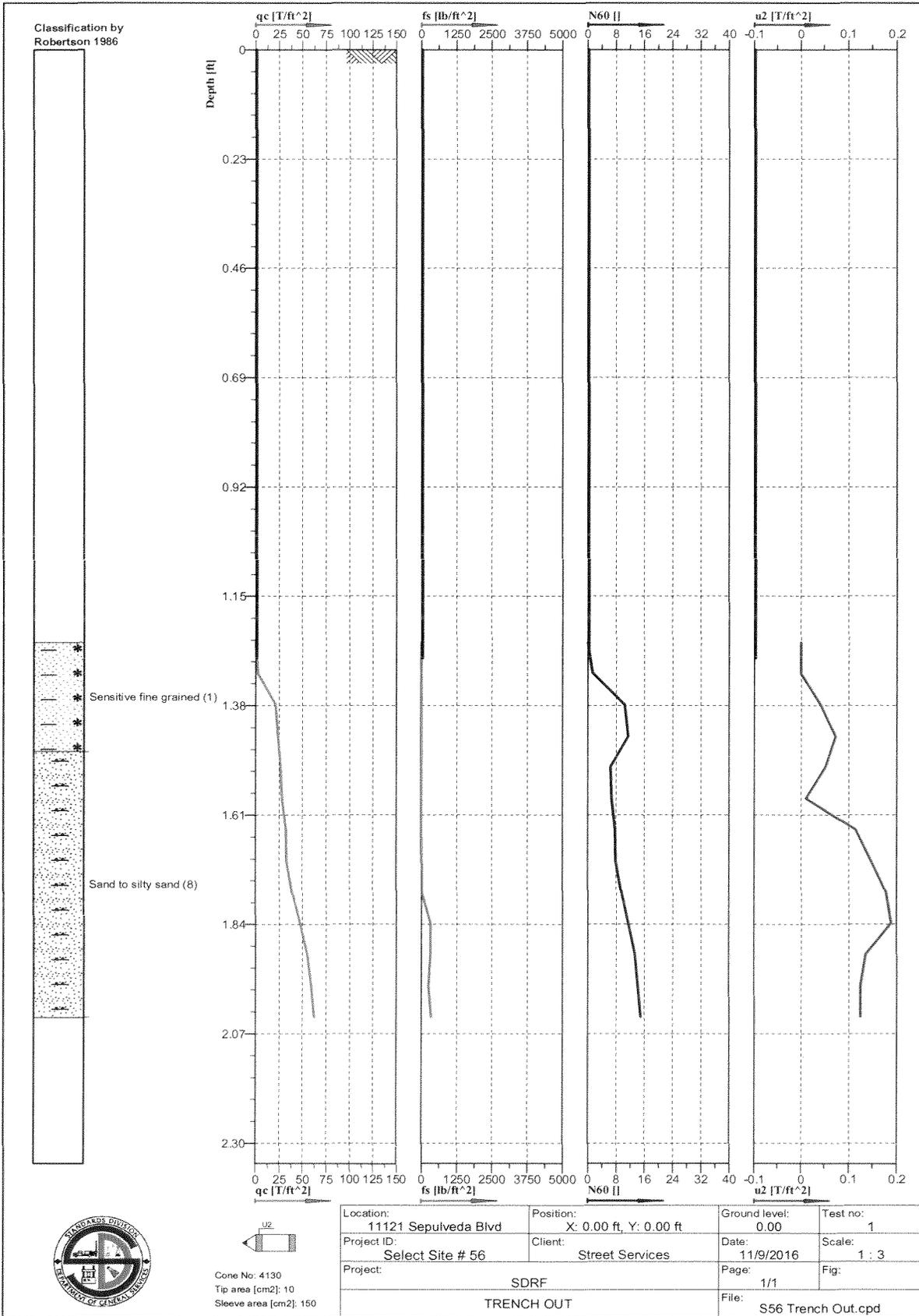
Asphalt thickness = 7.6”.



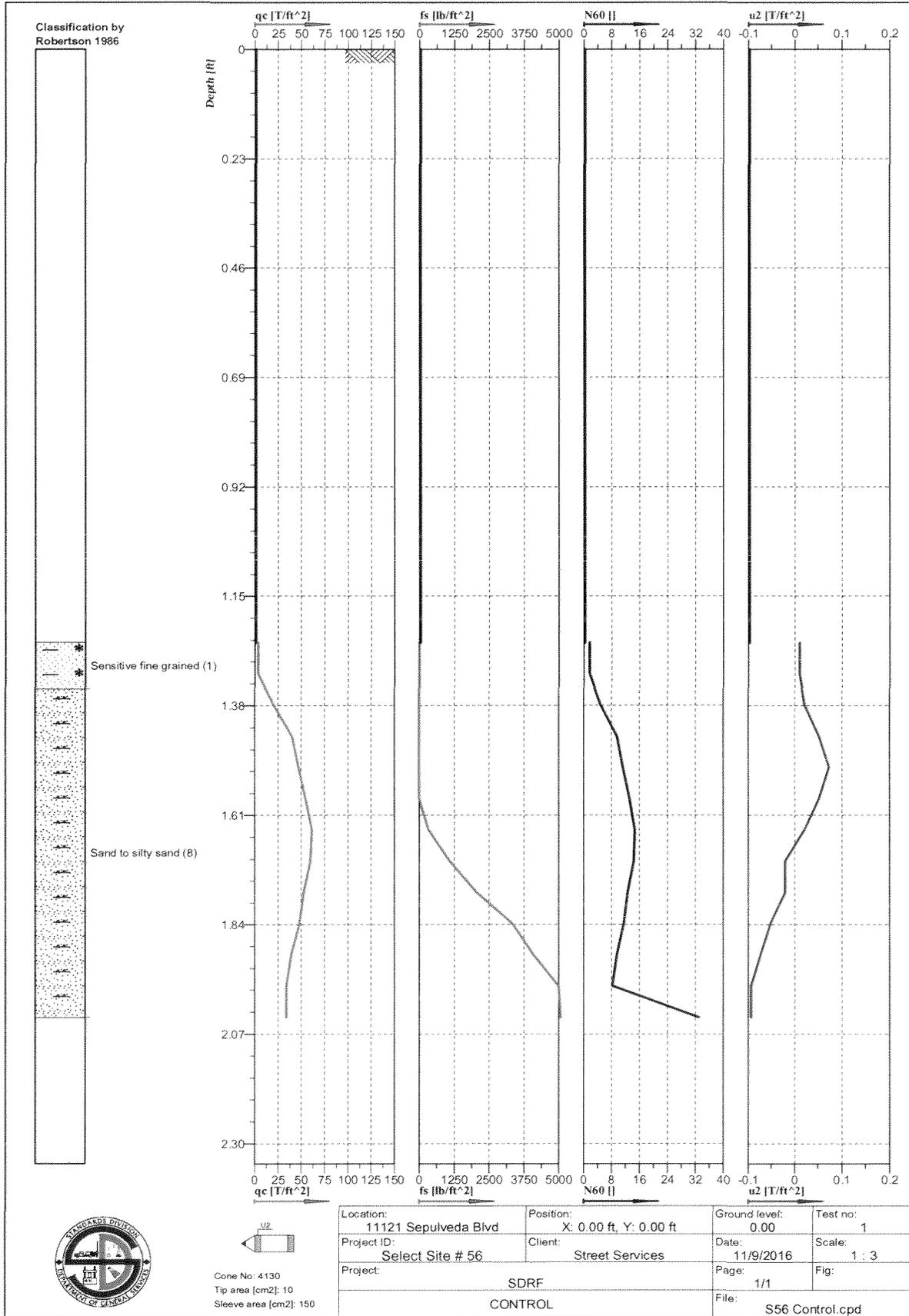
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 11121 Sepulveda Blvd	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 56	Client: Street Services	Date: 11/9/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S56 Trench In.cpd	

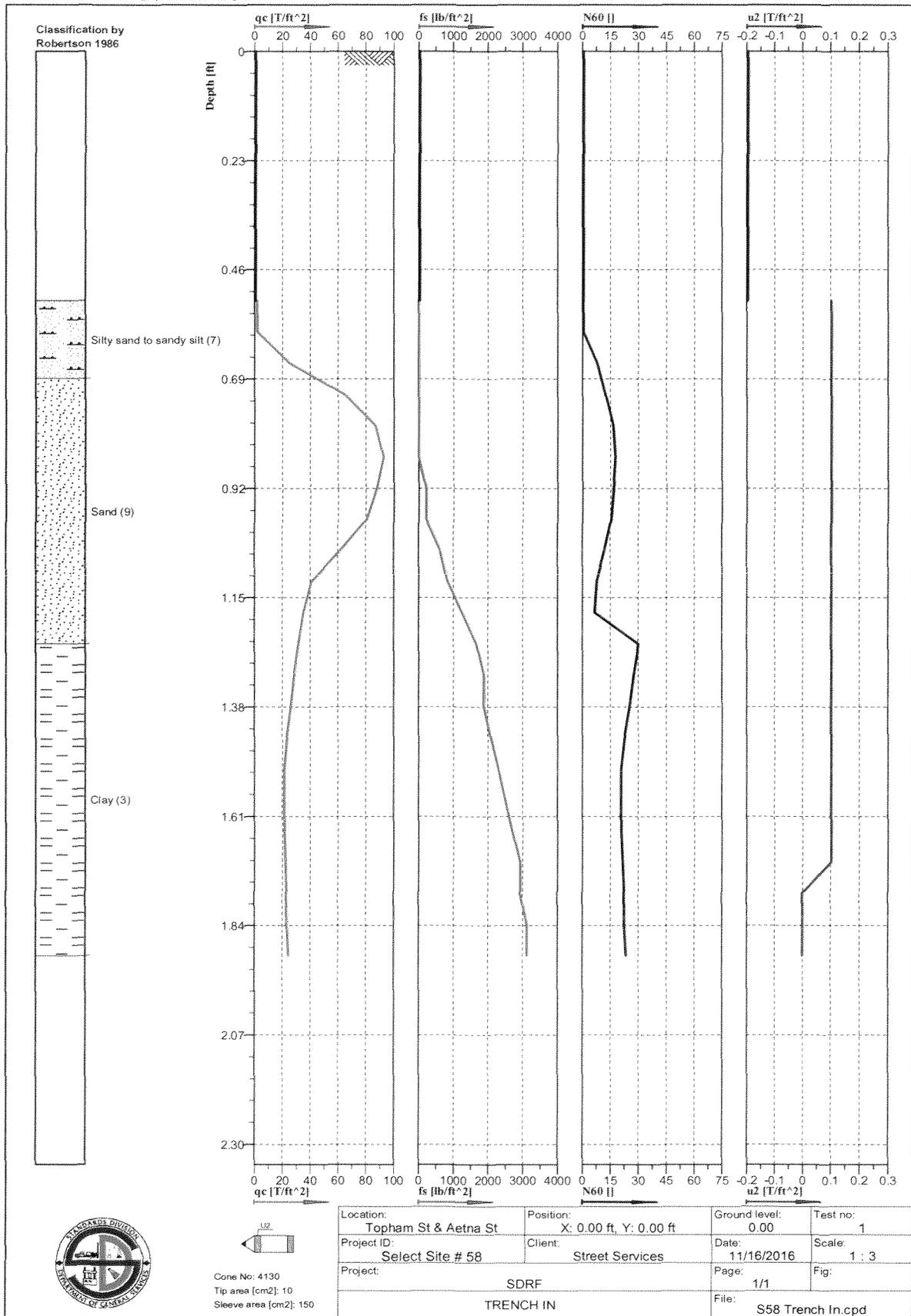
Lab No.: 17-741-206



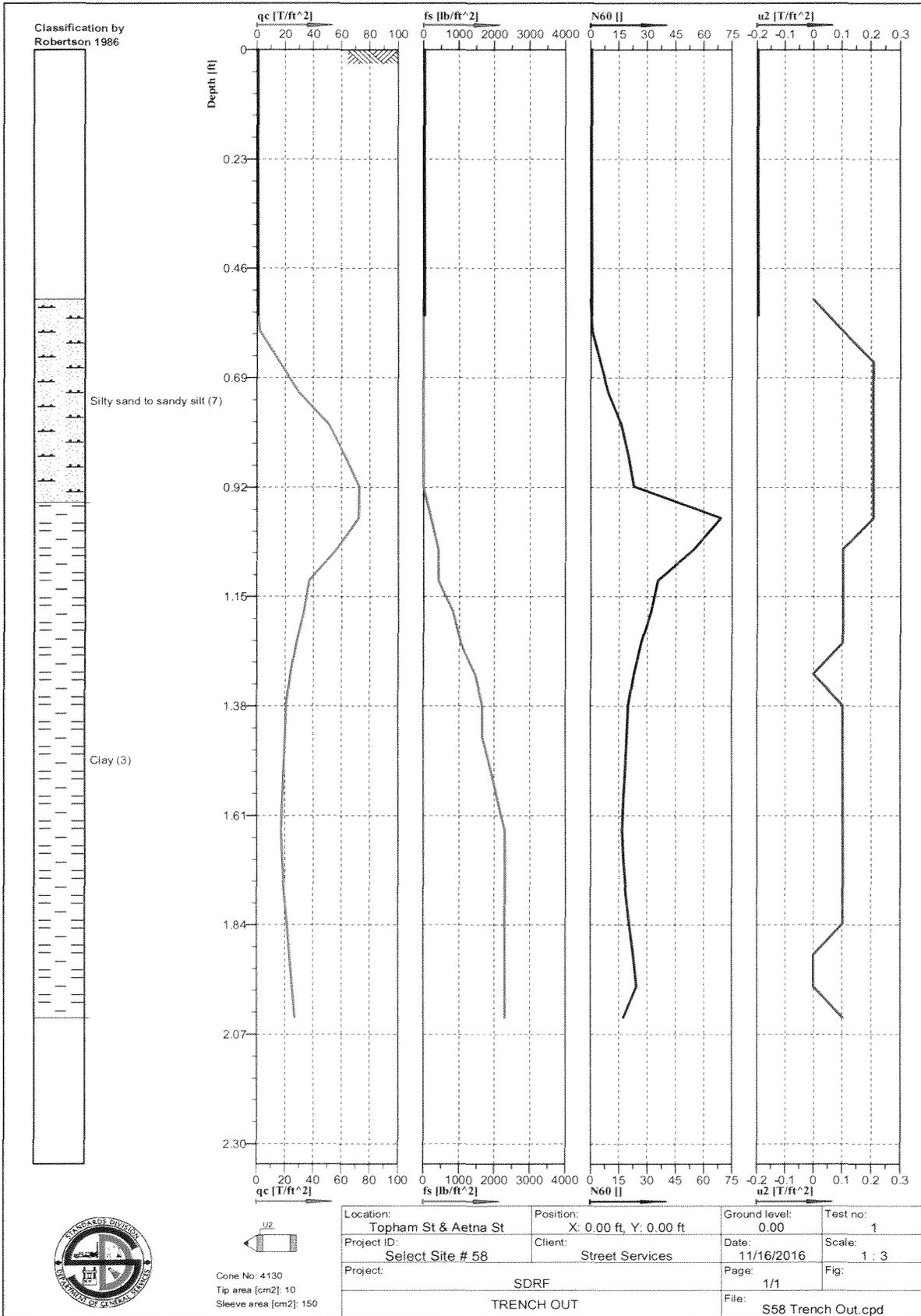
Lab No.: 17-741-207



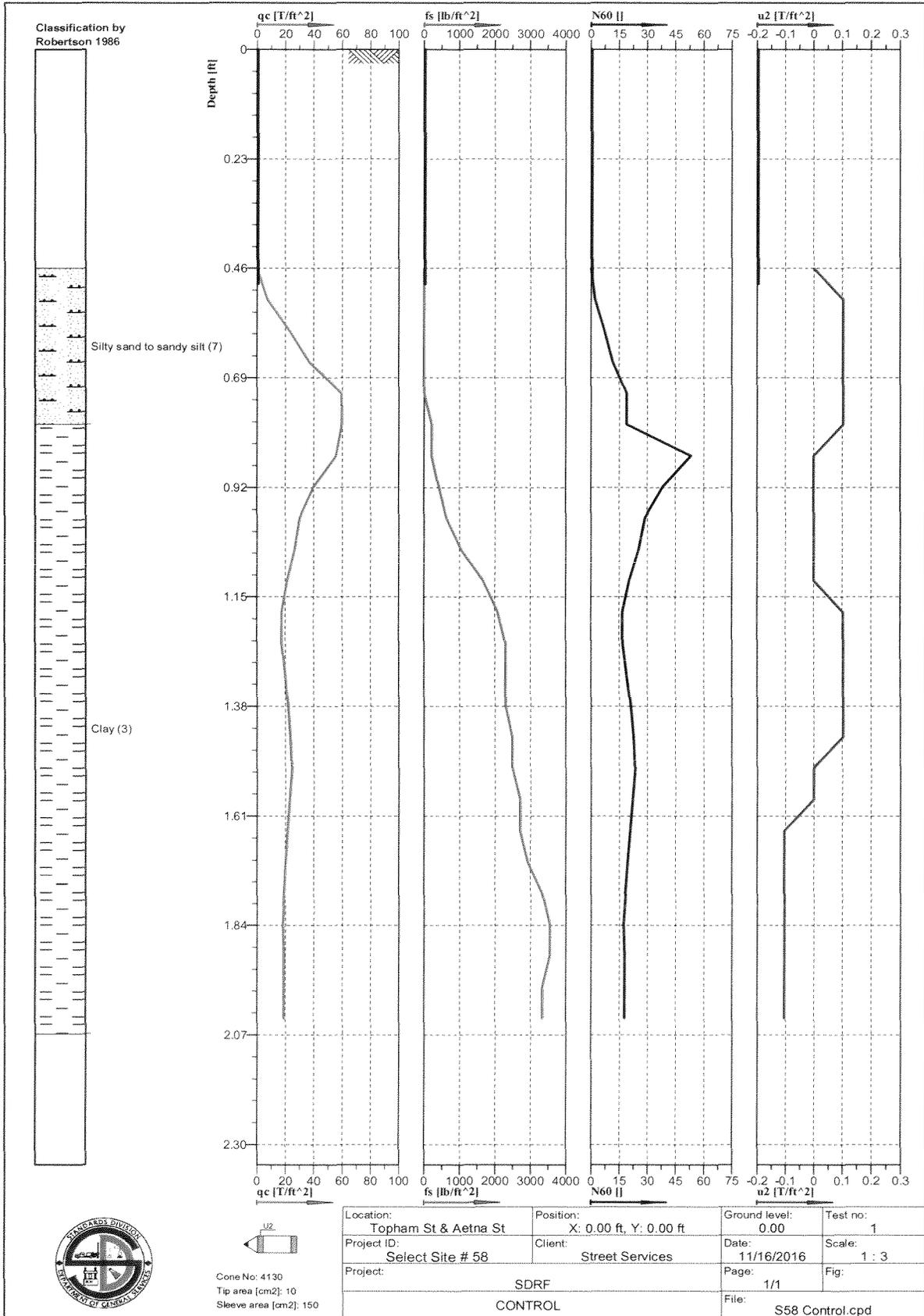
Lab No.: 17-741-208

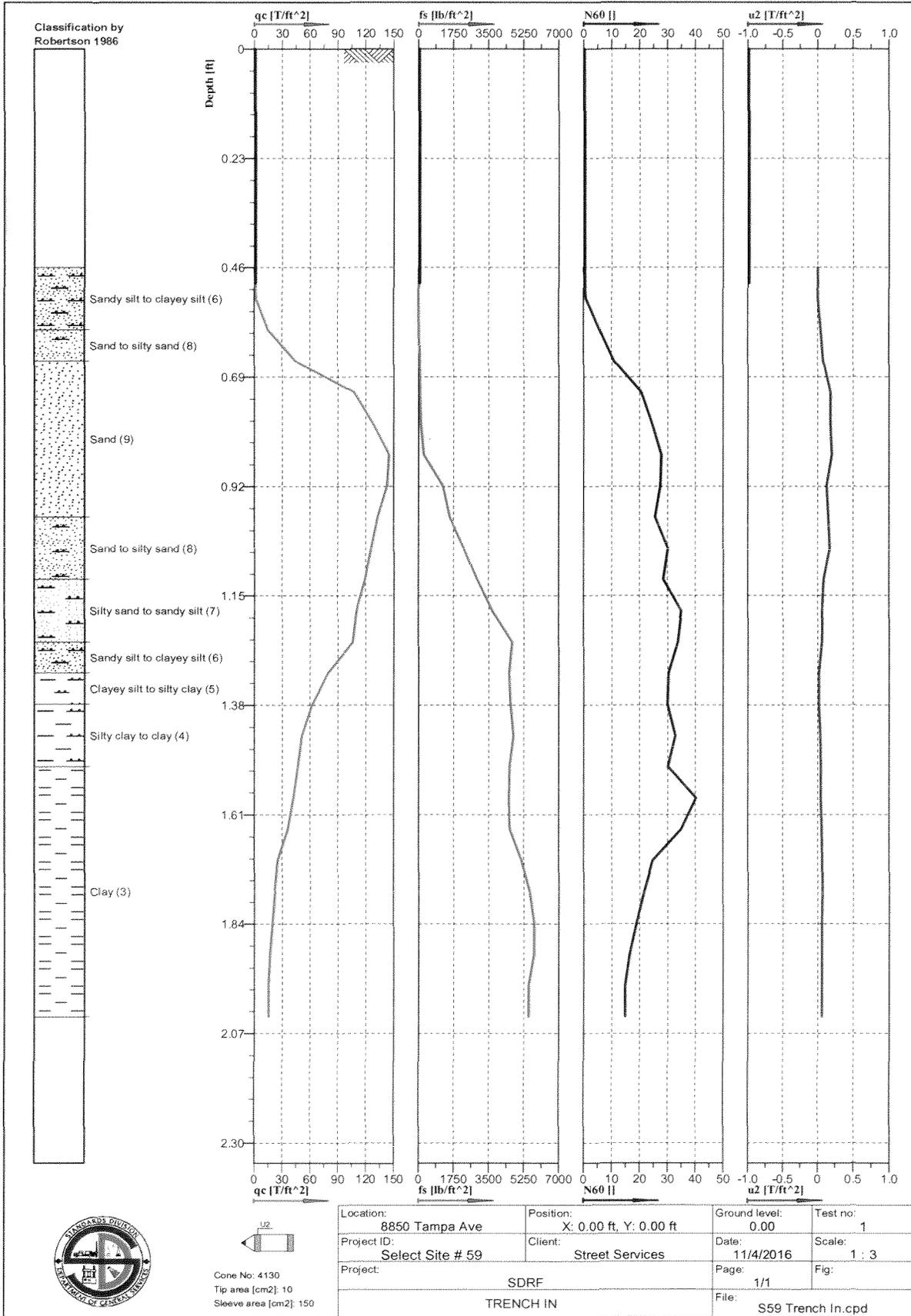


Lab No.: 17-741-209

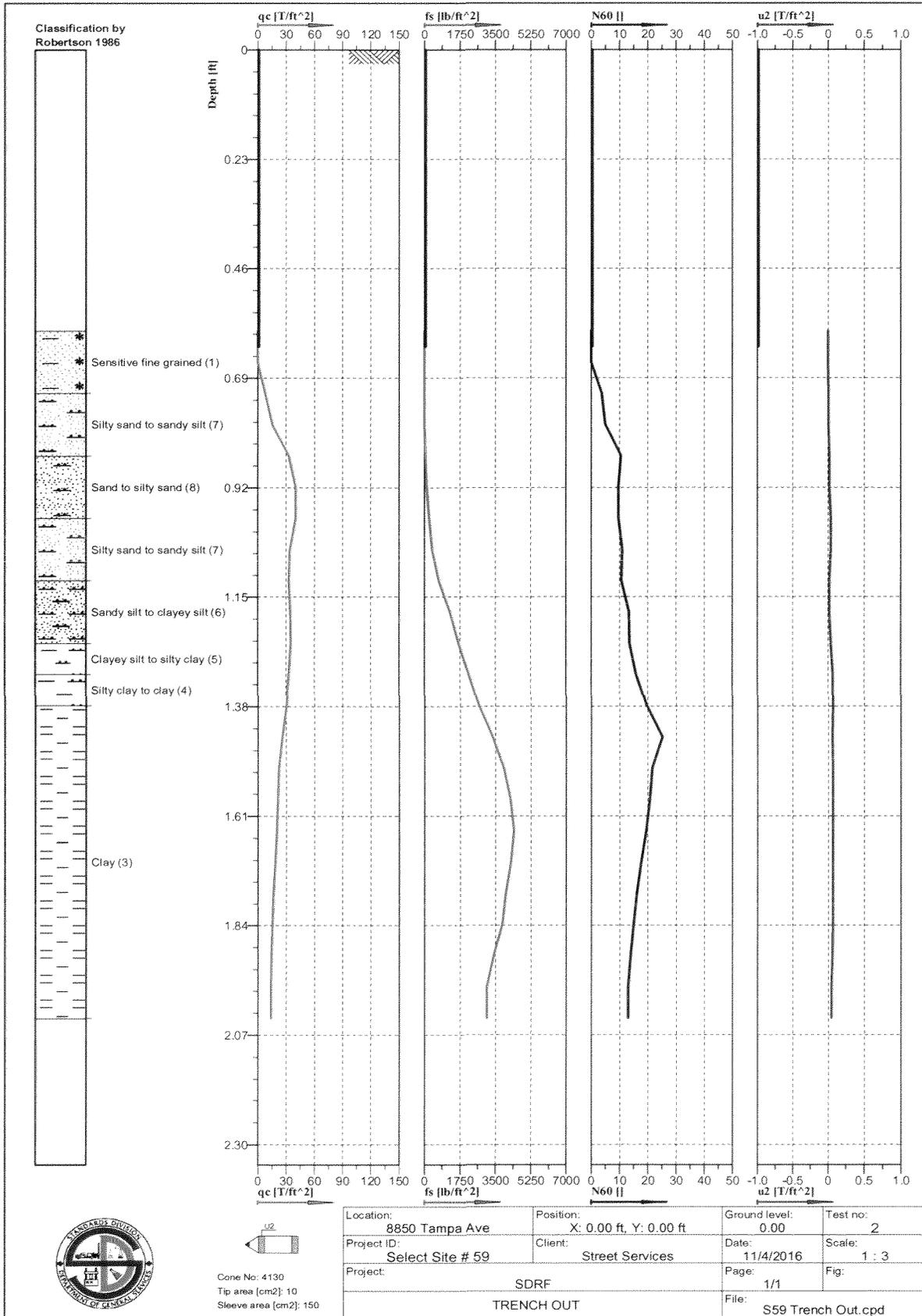


Lab No.: 17-741-210





Lab No.: 17-741-212





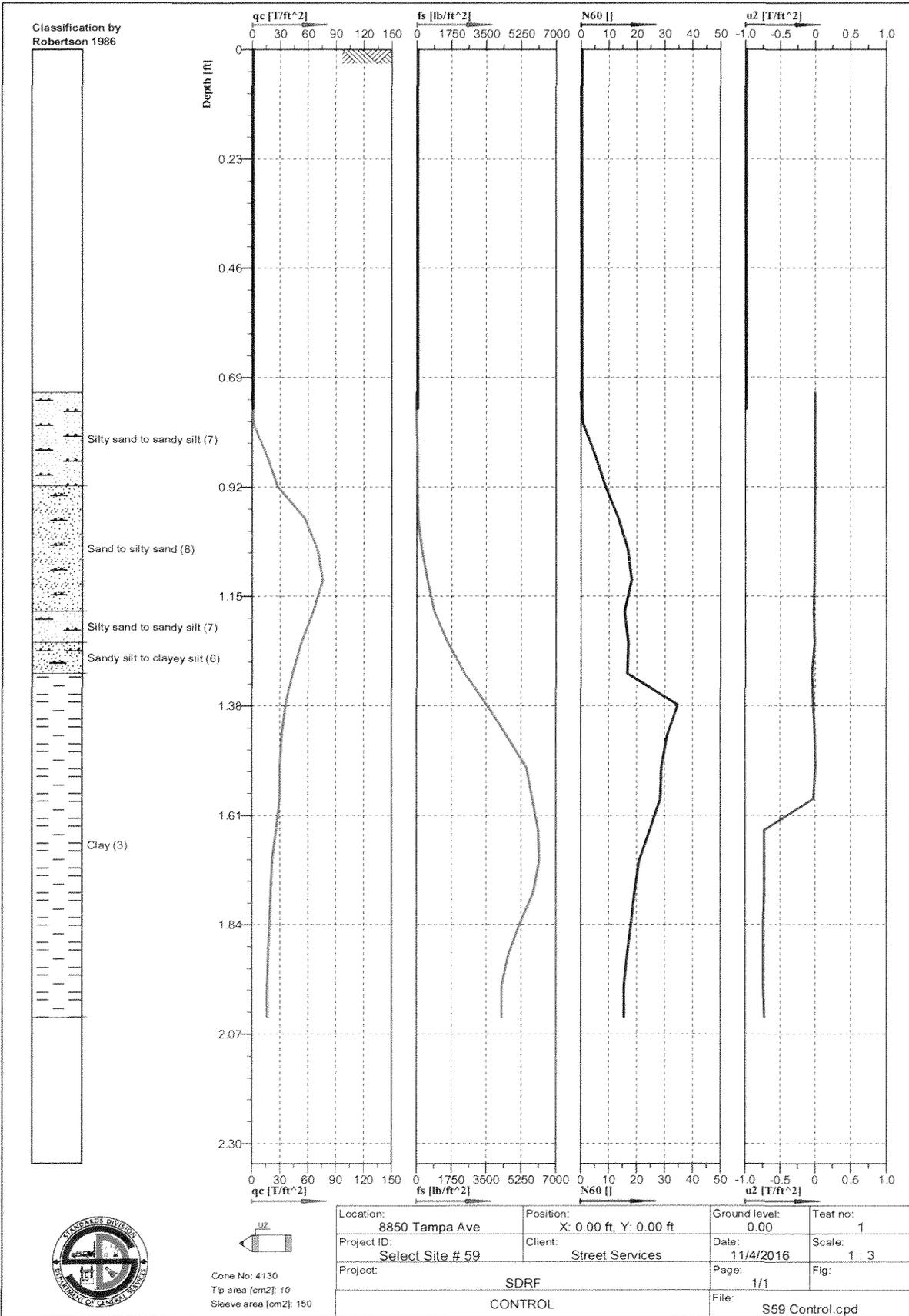
 Cone No: 4130

 Tip area [cm²]: 10

 Sleeve area [cm²]: 150

Location: 8850 Tampa Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 2
Project ID: Select Site # 59	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S59 Trench Out.cpd	

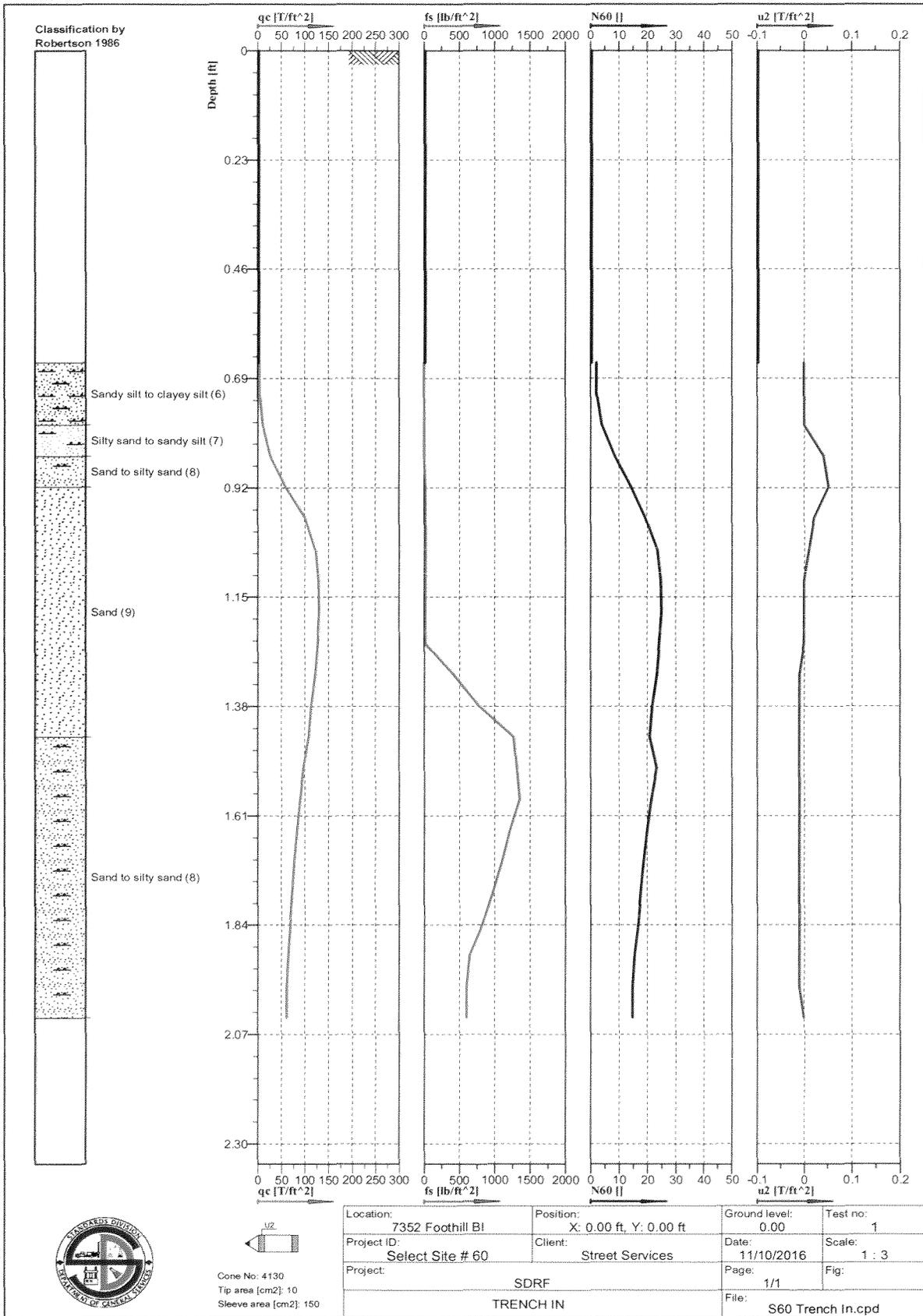
Lab No.: 17-741-213



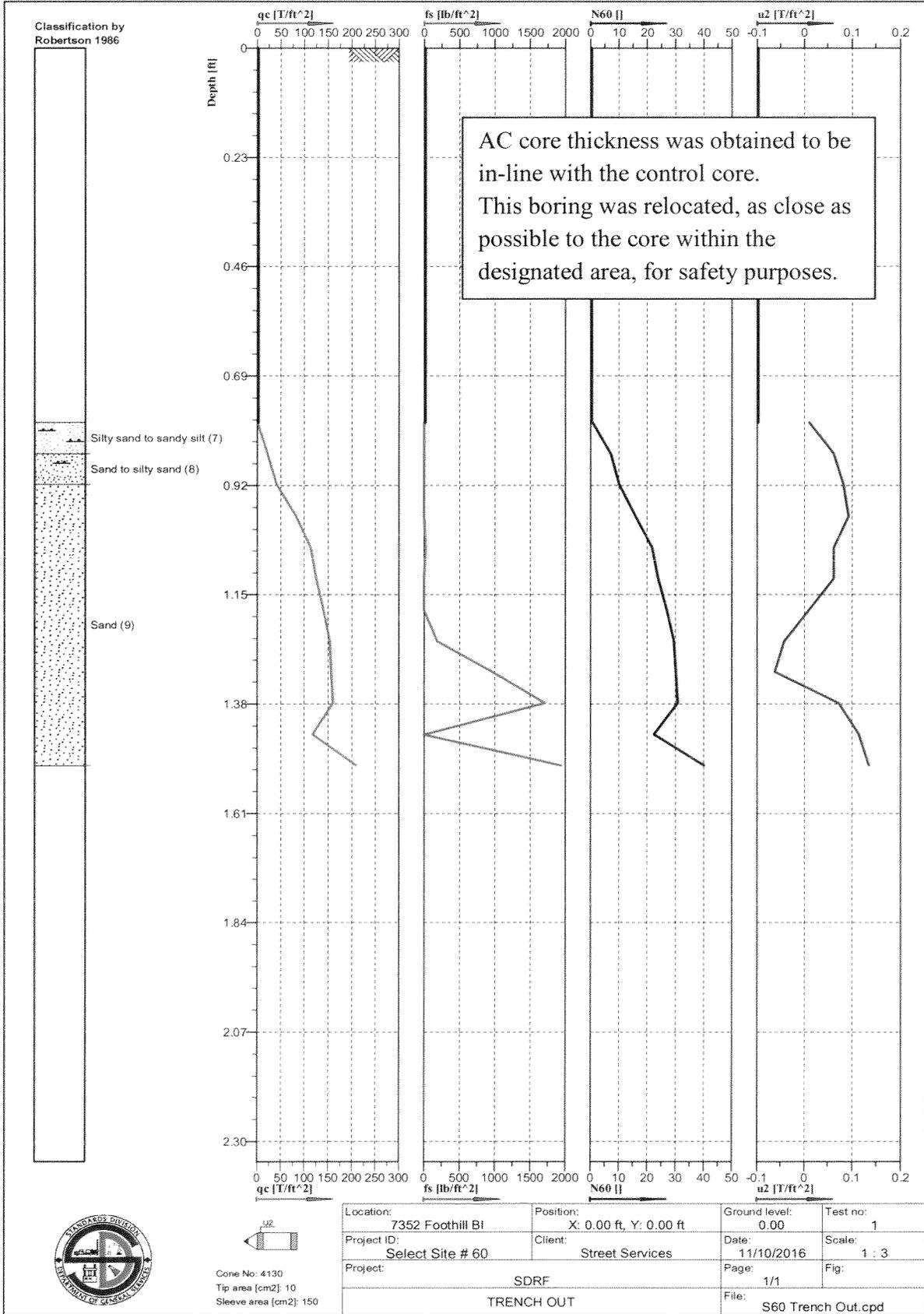
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

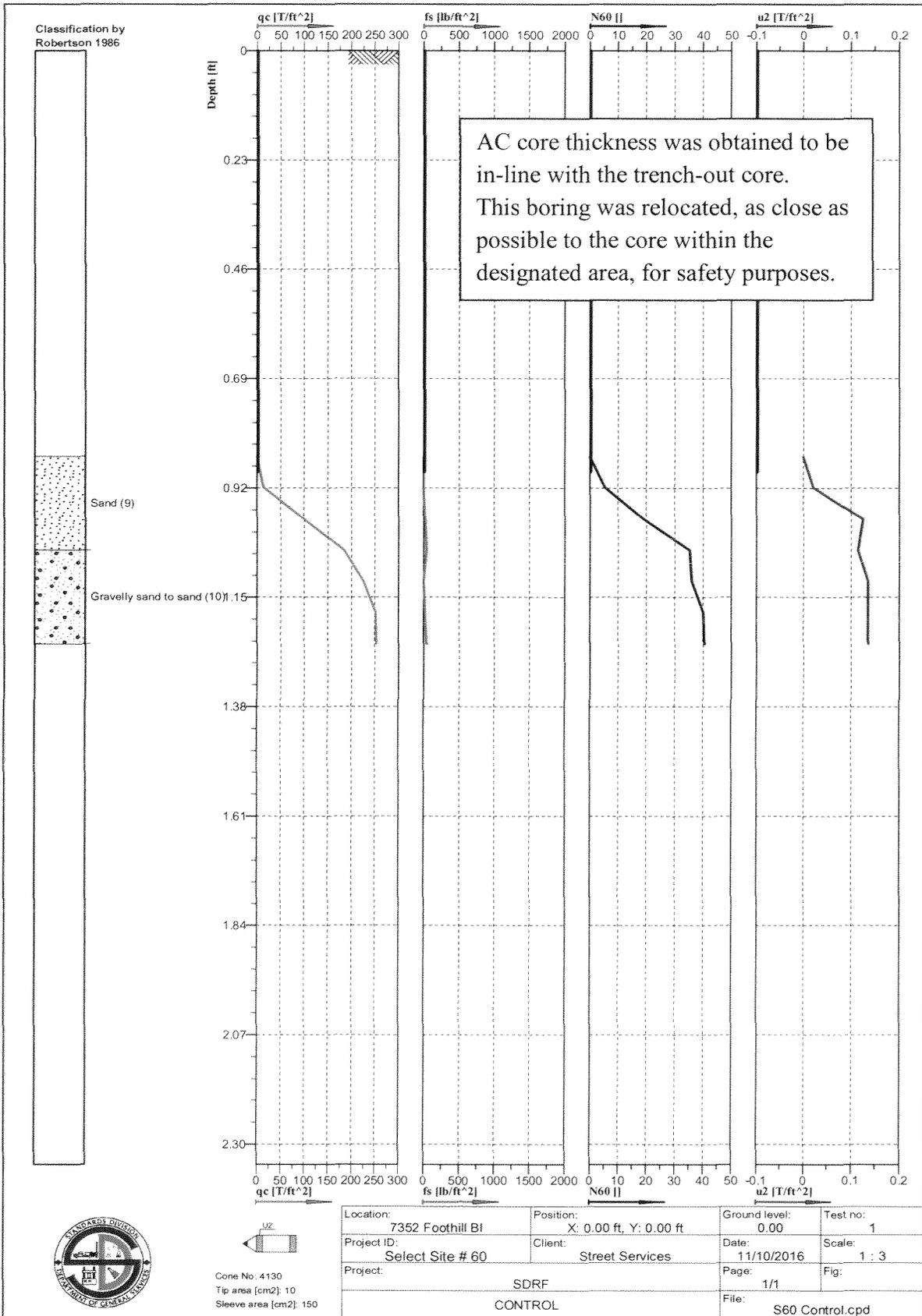
Location: 8850 Tampa Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 59	Client: Street Services	Date: 11/4/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S59 Control.cpd	

Lab No.: 17-741-214

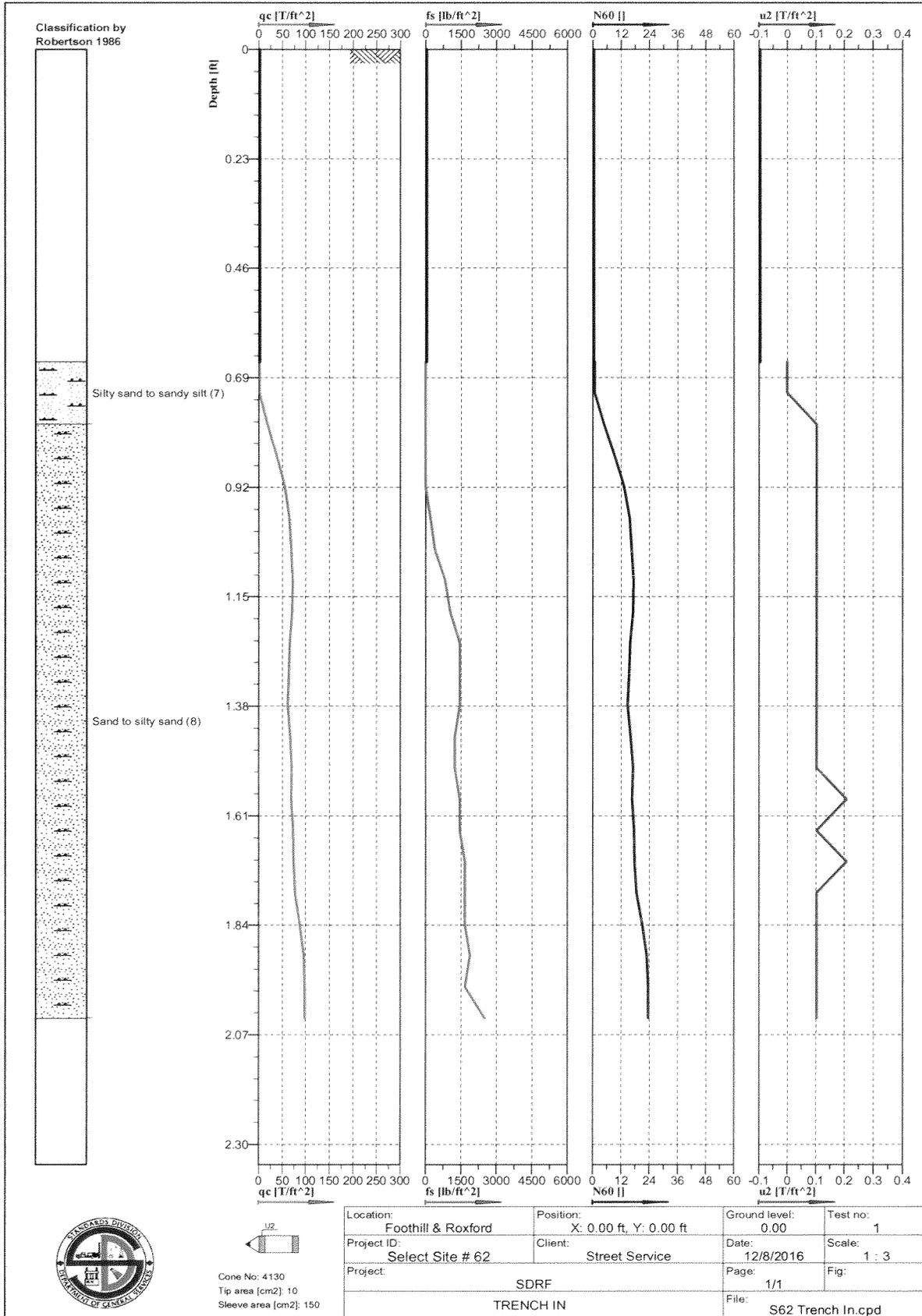


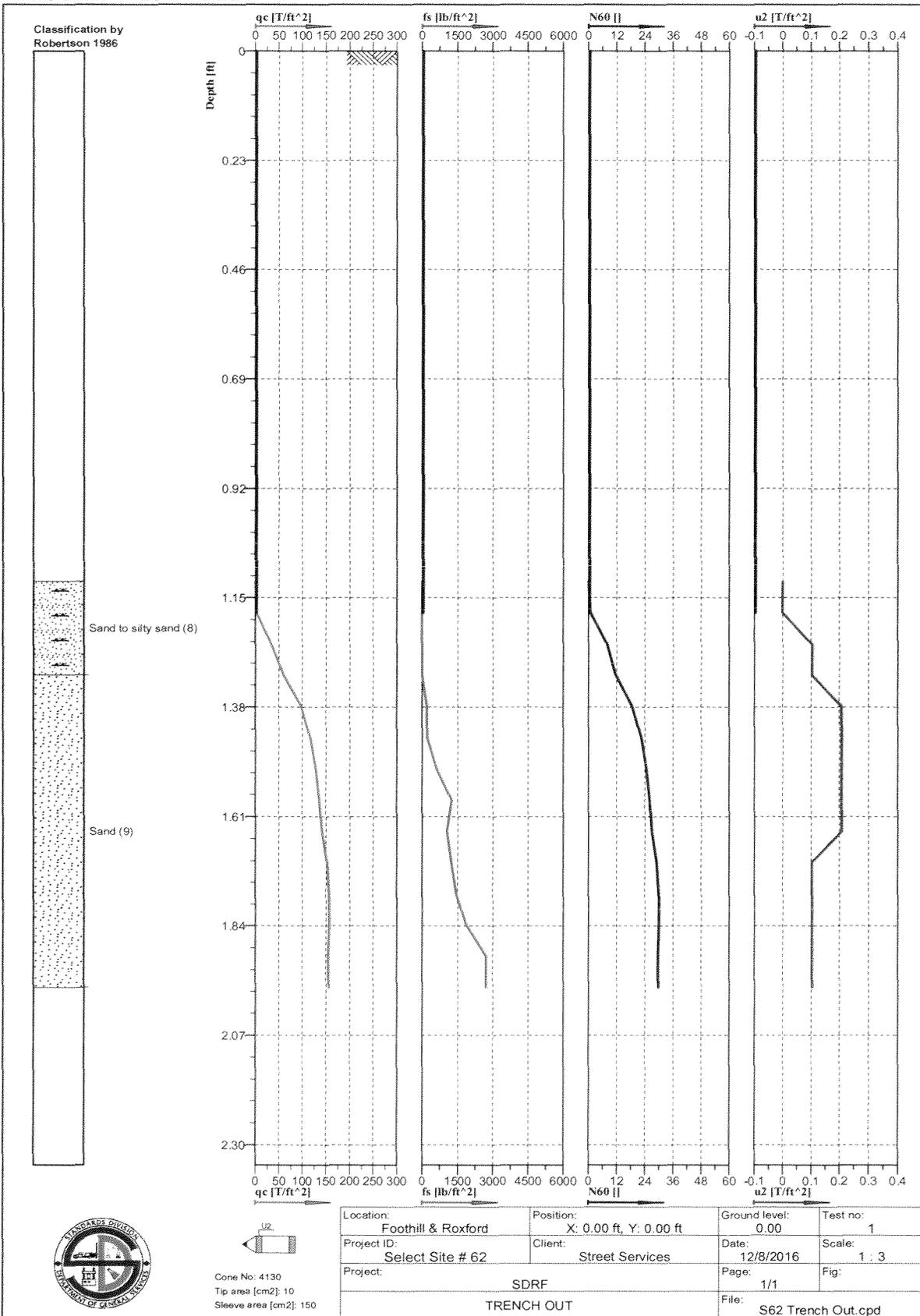
Lab No.: 17-741-215



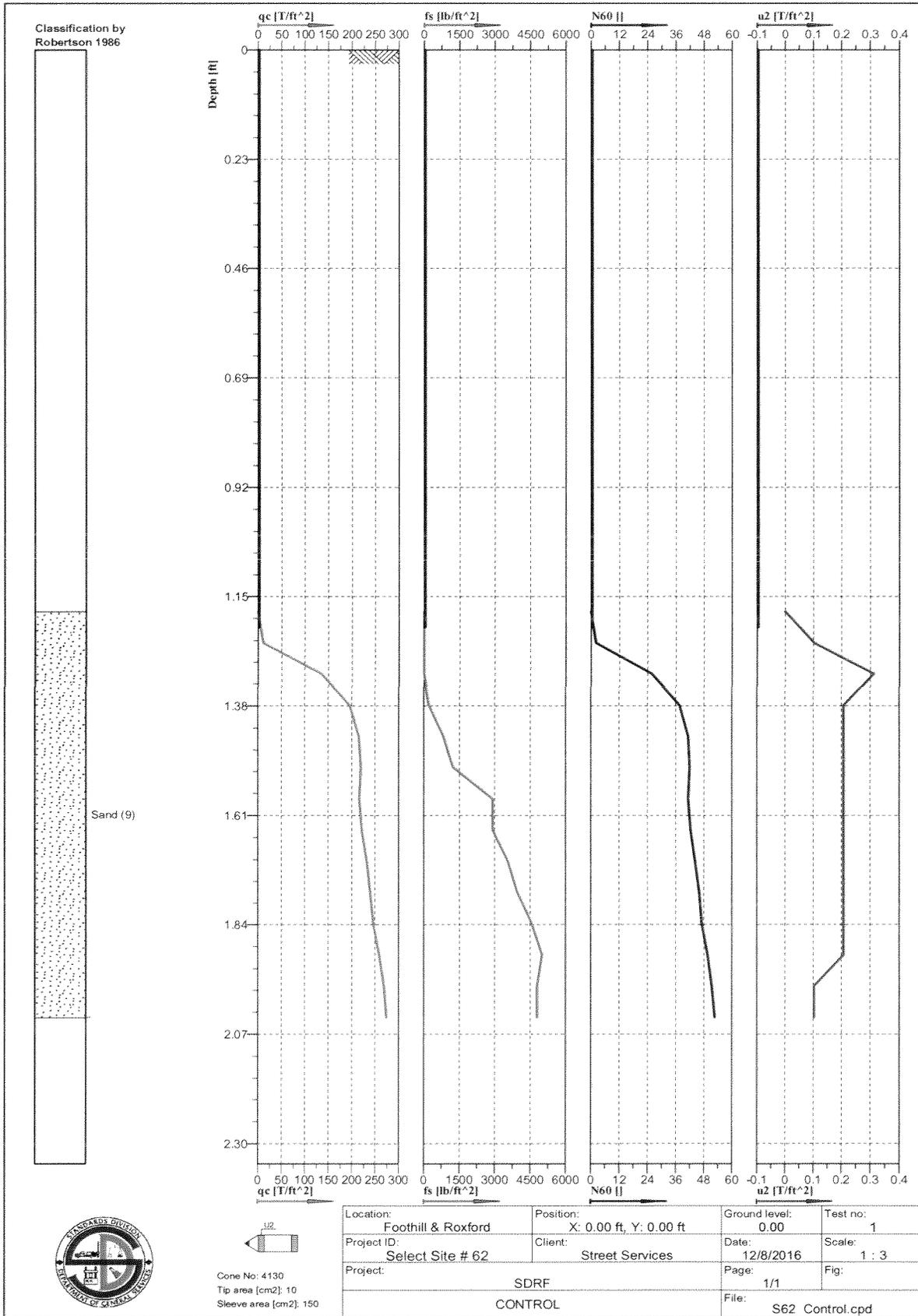


Lab No.: 17-741-217





Lab No.: 17-741-219



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

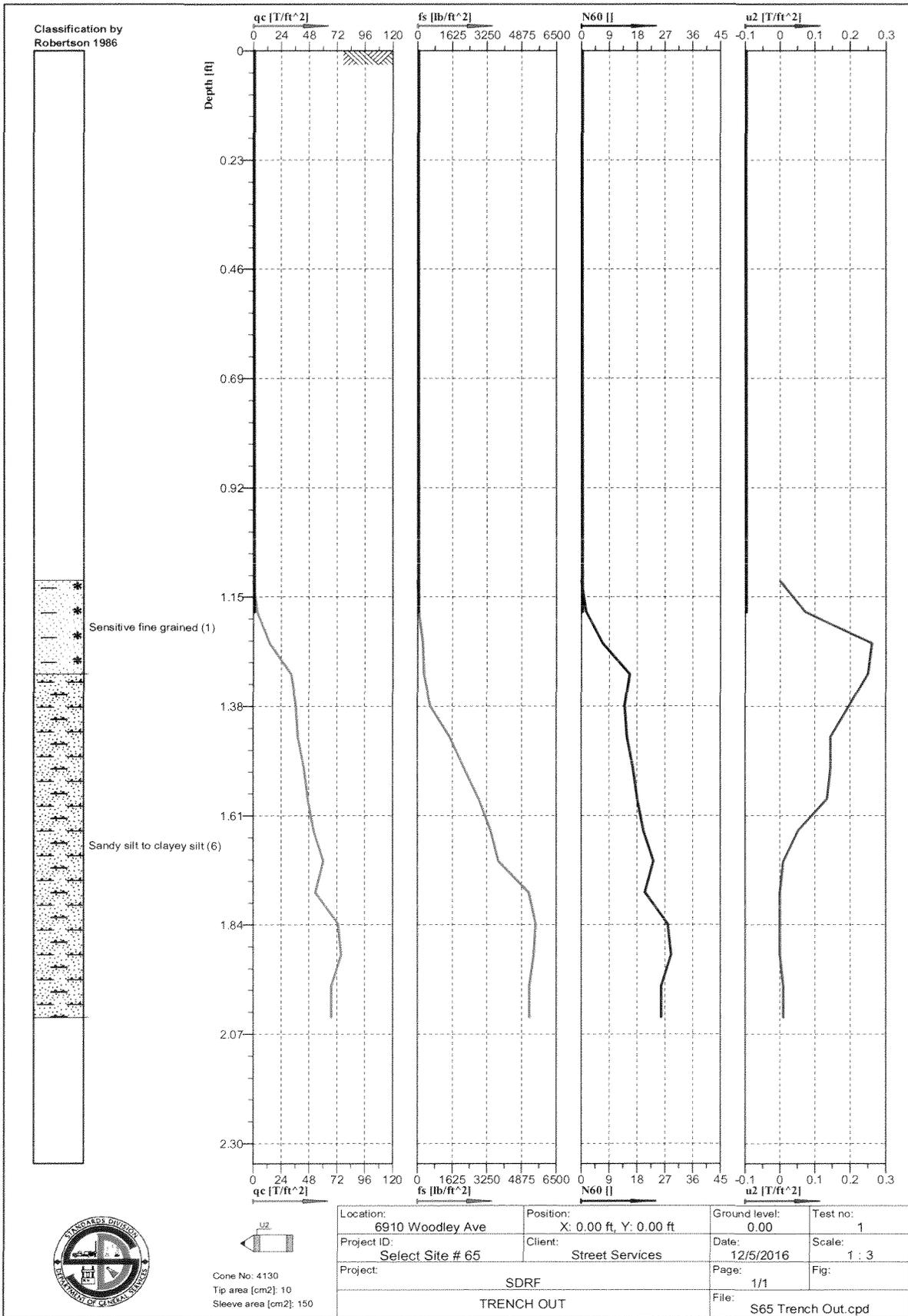
Asphalt thickness = 8.5”.



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 6910 Woodley Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 65	Client: Street Services	Date: 1/11/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S65 Trench In.cpd	

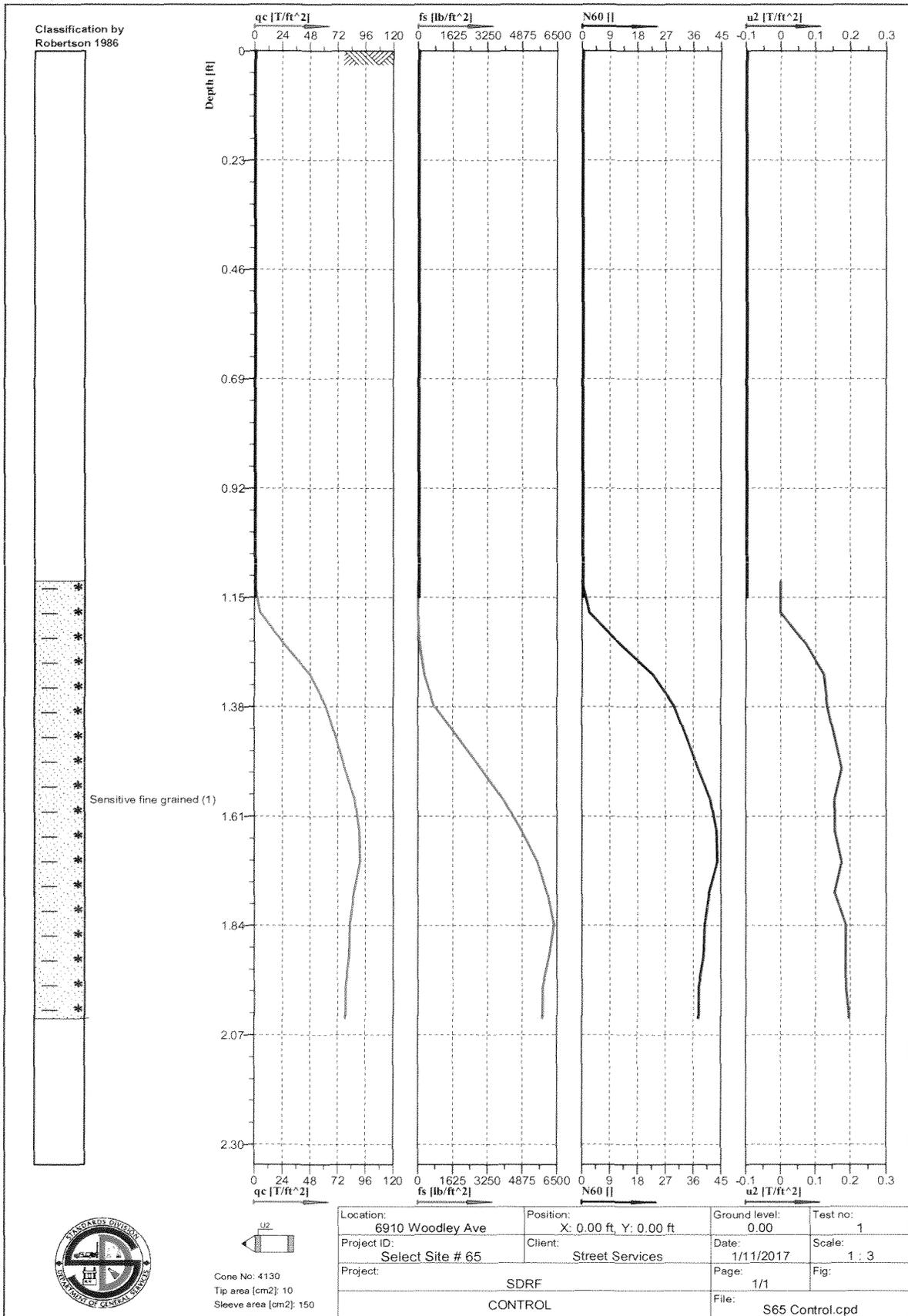
Lab No.: 17-741-221



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 6910 Woodley Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 65	Client: Street Services	Date: 12/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S65 Trench Out.cpd	

Lab No.: 17-741-222



Lab No.: 17-741-223

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

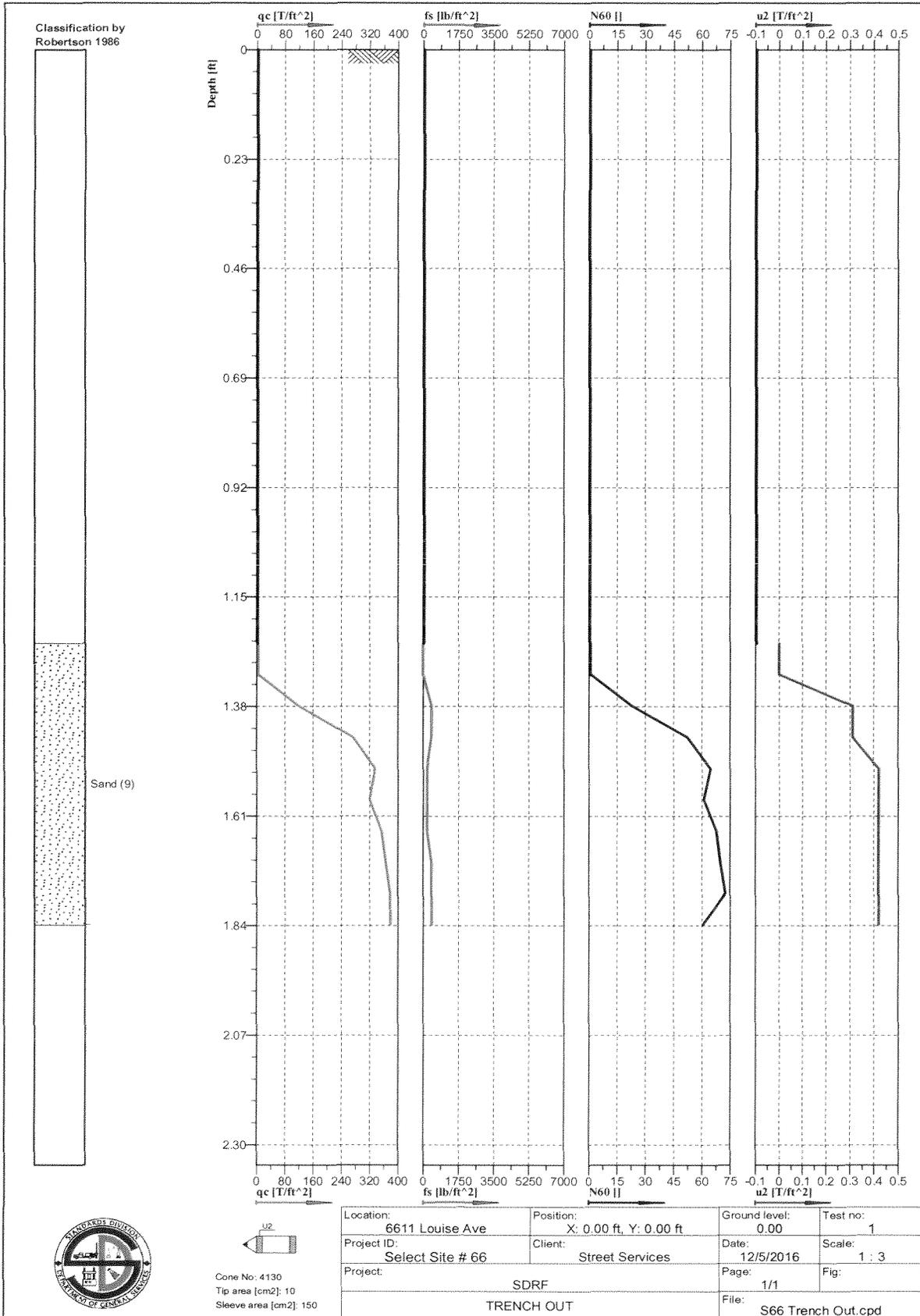
Asphalt thickness = 10.1”.



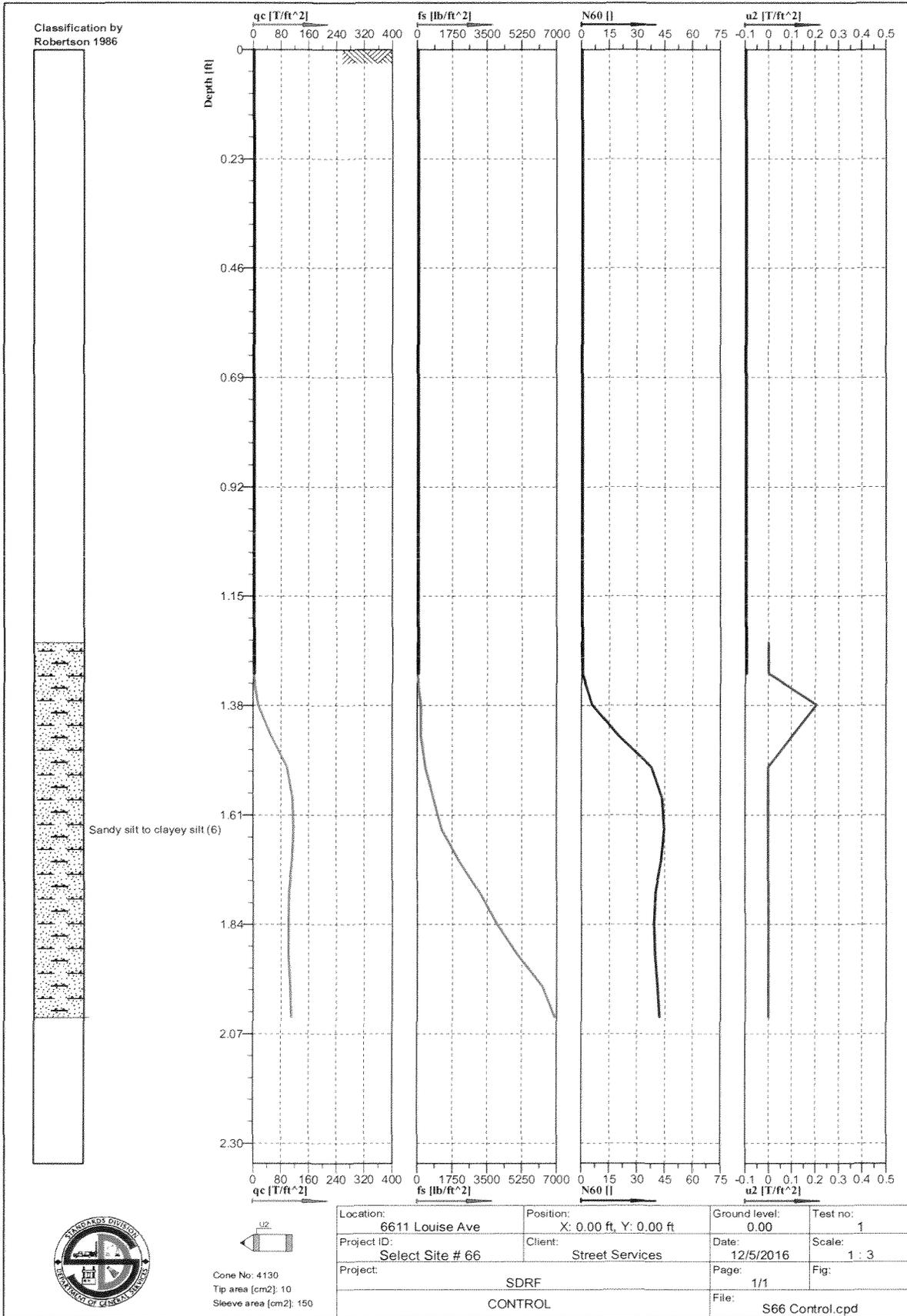
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location:	6611 Louise Ave	Position:	X: 0.00 ft, Y: 0.00 ft	Ground level:	0.00	Test no:	1
Project ID:	Select Site # 66	Client:	Street Services	Date:	12/5/2016	Scale:	1 : 3
Project:	SDRF			Page:	1/1	Fig:	
	TRENCH IN			File:	S66 Trench In.cpd		

Lab No.: 17-741-224



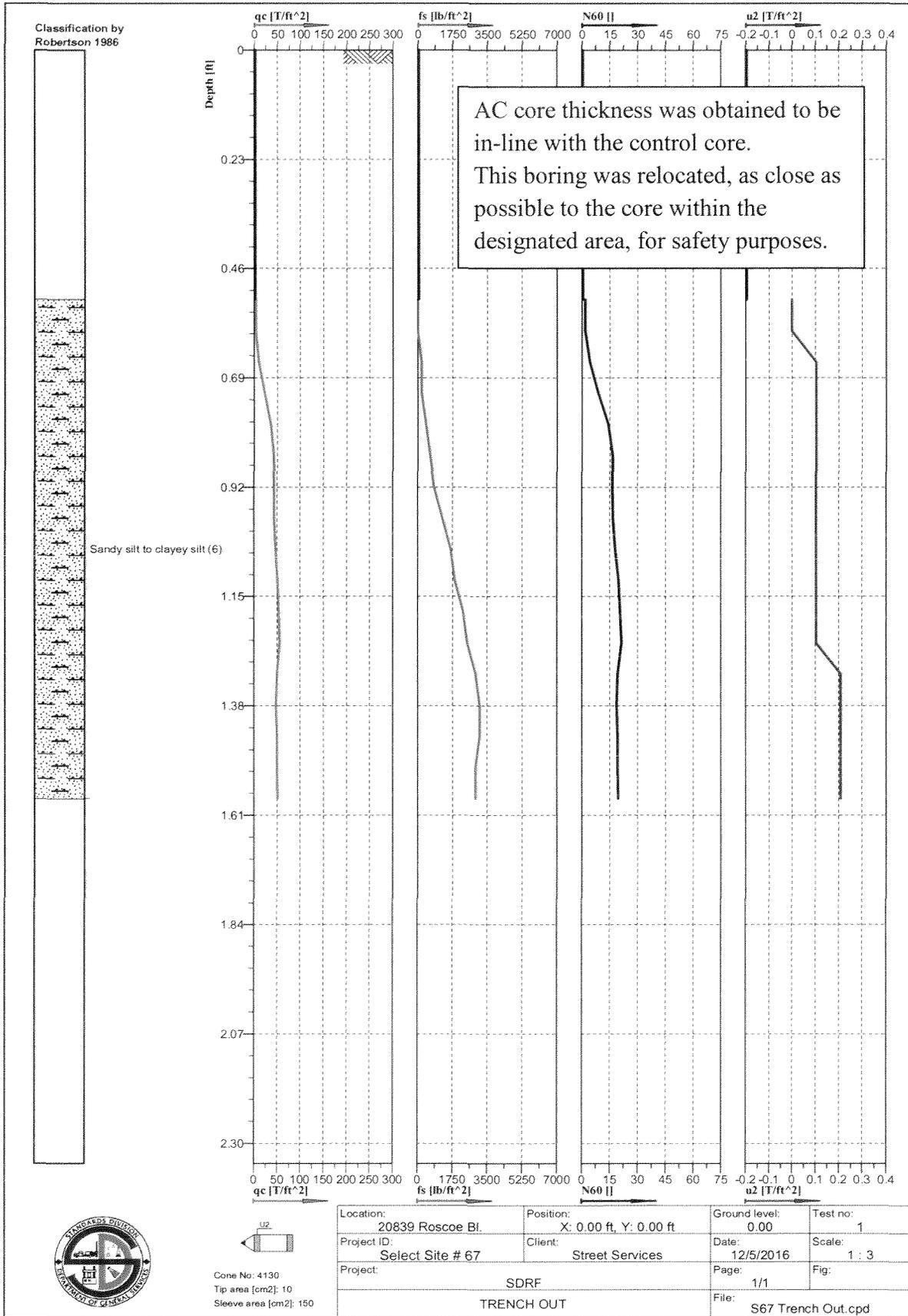
Lab No.: 17-741-225

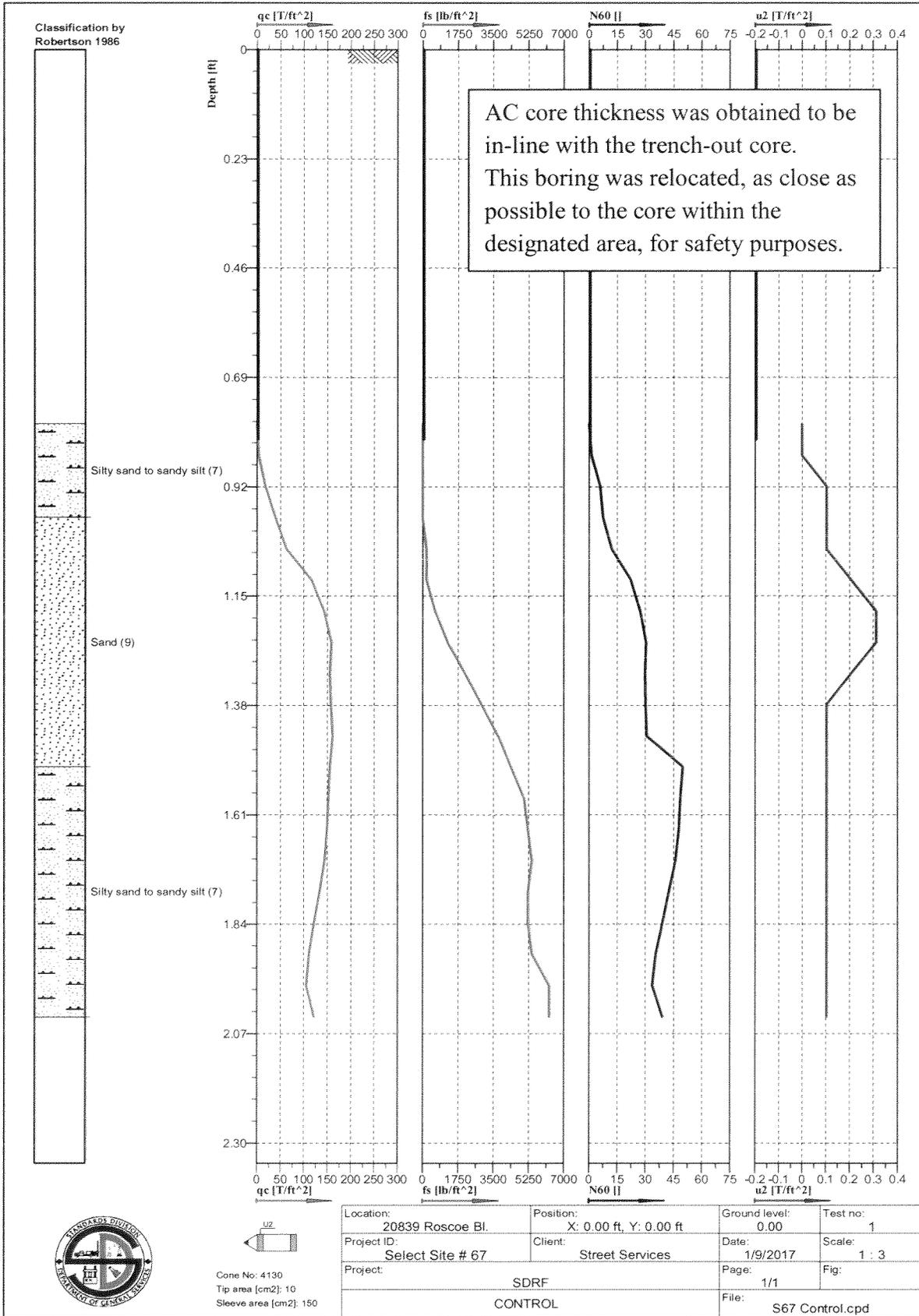


Lab No.: 17-741-226

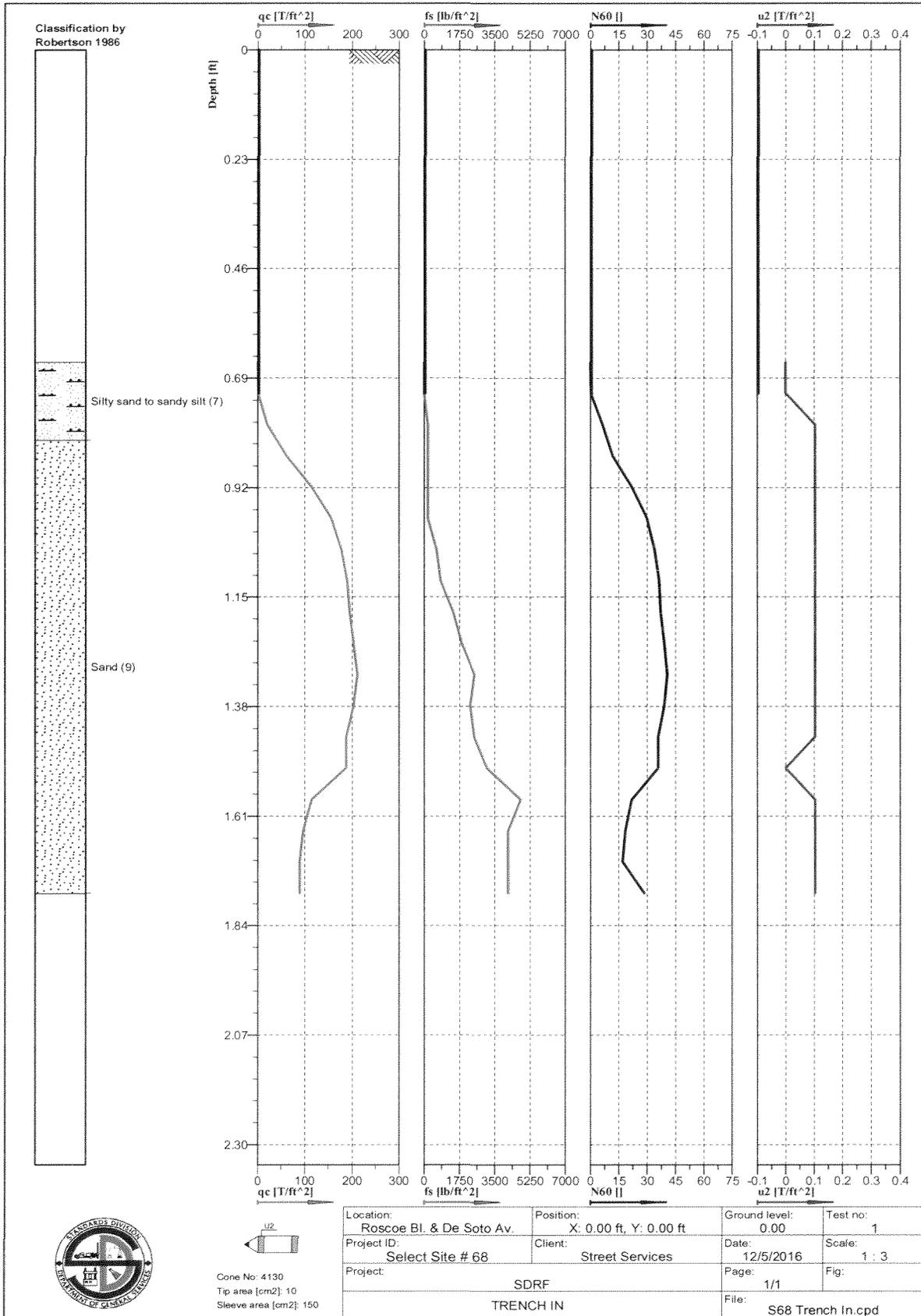


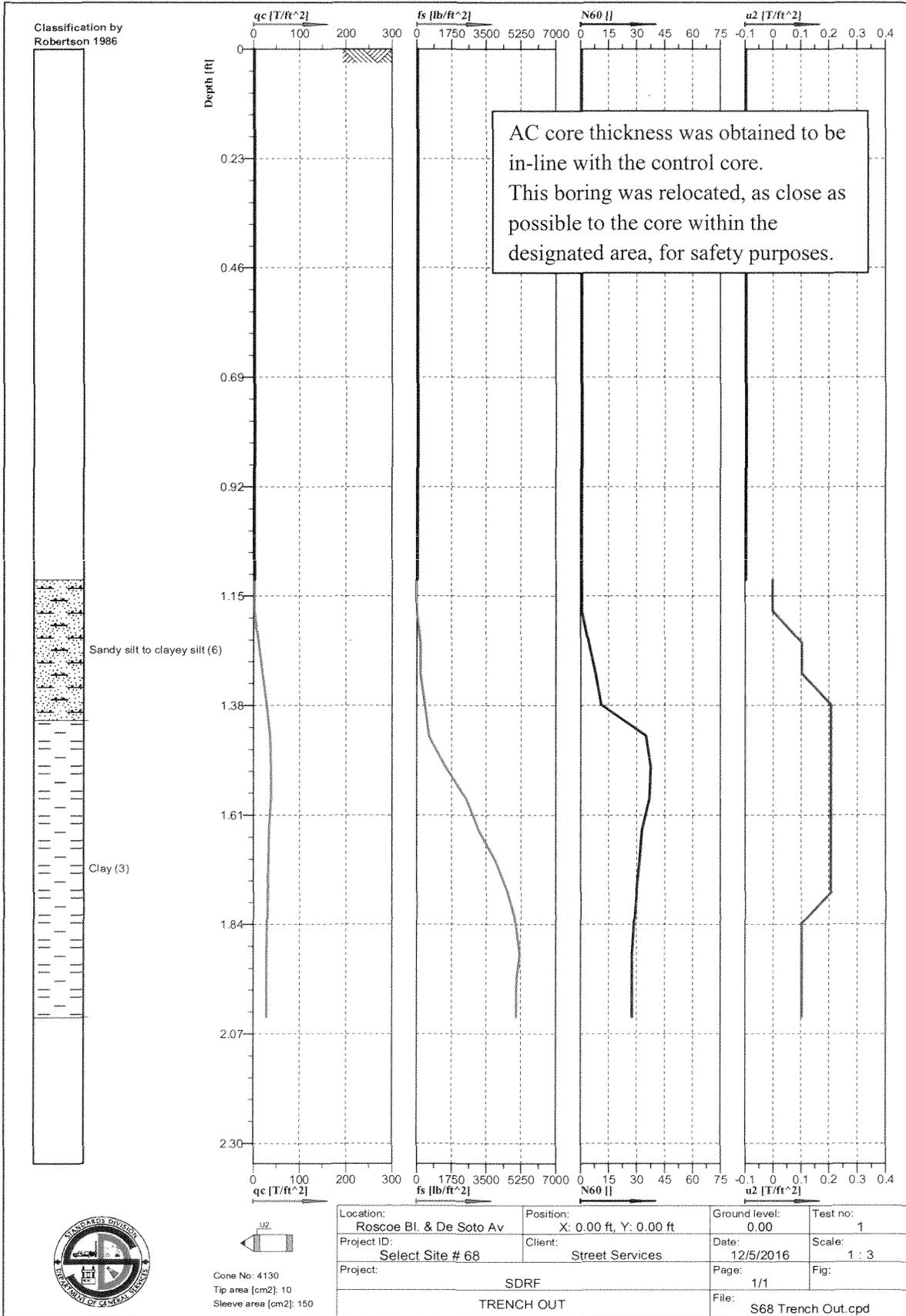
Lab No.: 17-741-227





Lab No.: 17-741-229

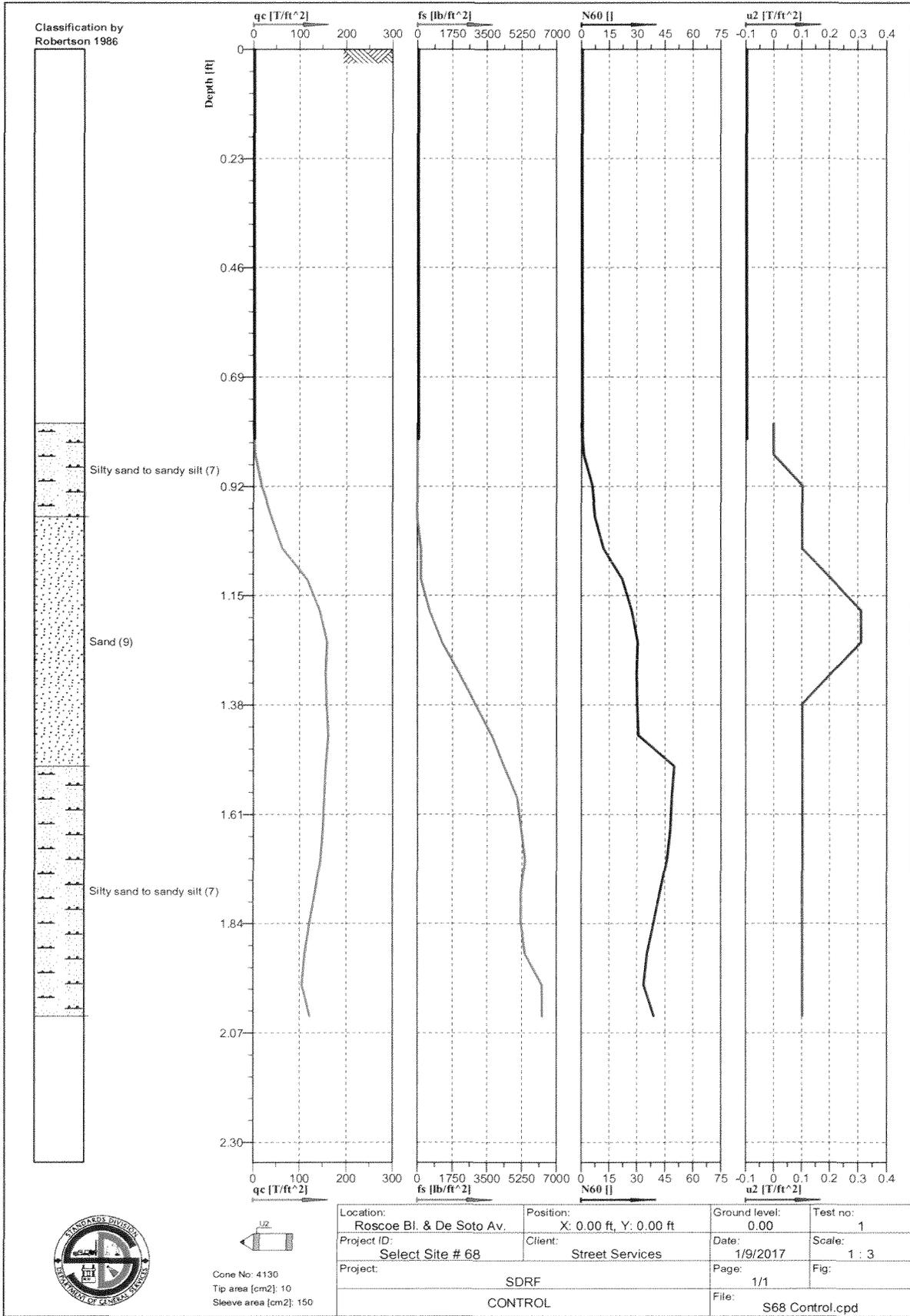




Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Roscoe Bl. & De Soto Av	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 68	Client: Street Services	Date: 12/5/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH OUT		File: S68 Trench Out.cpd	

Lab No.: 17-741-231



U2
 Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: Roscoe Bl. & De Soto Av.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 68	Client: Street Services	Date: 1/9/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: CONTROL
		File: S68 Control.cpd	

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

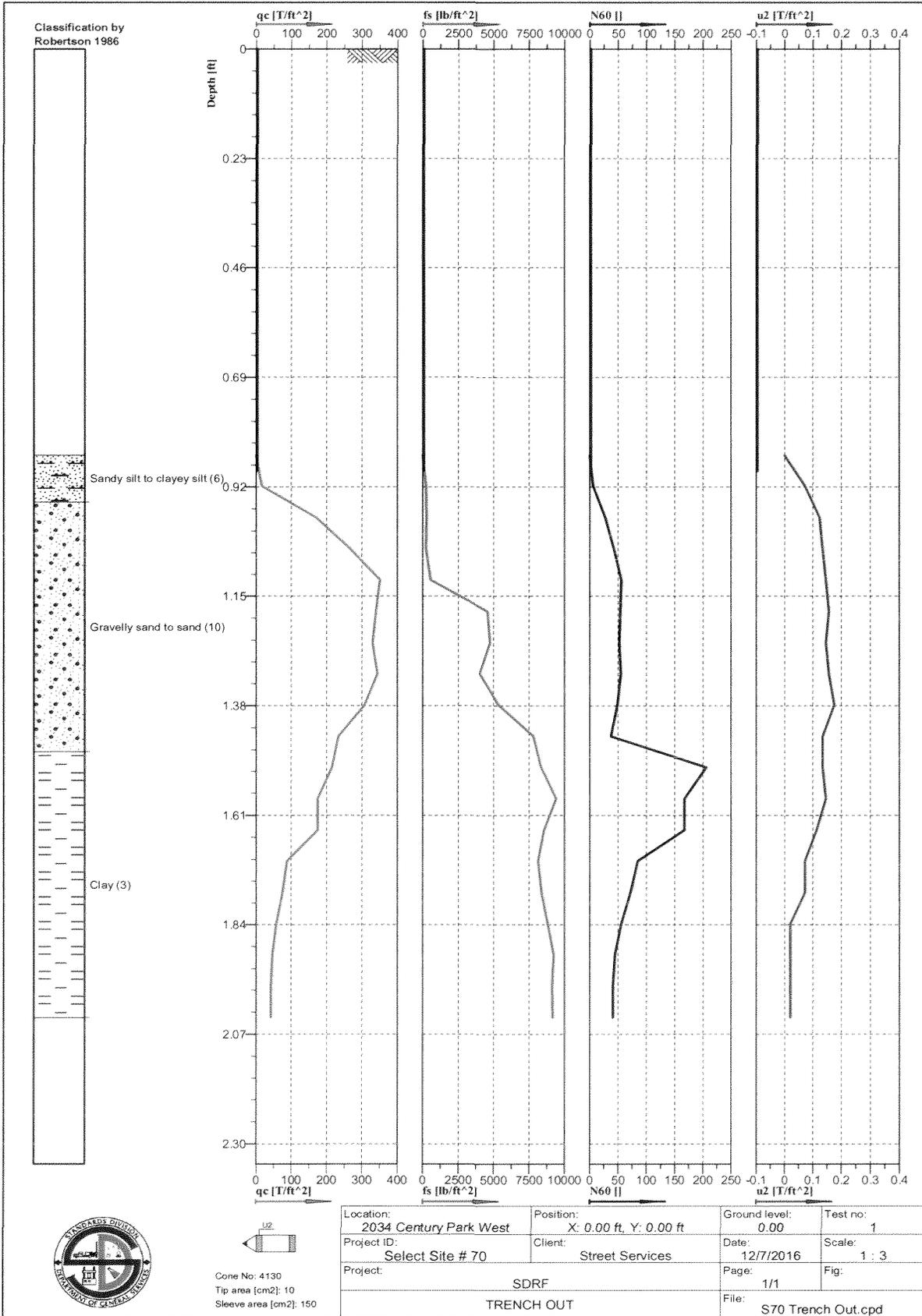
Asphalt thickness = 11.5”.



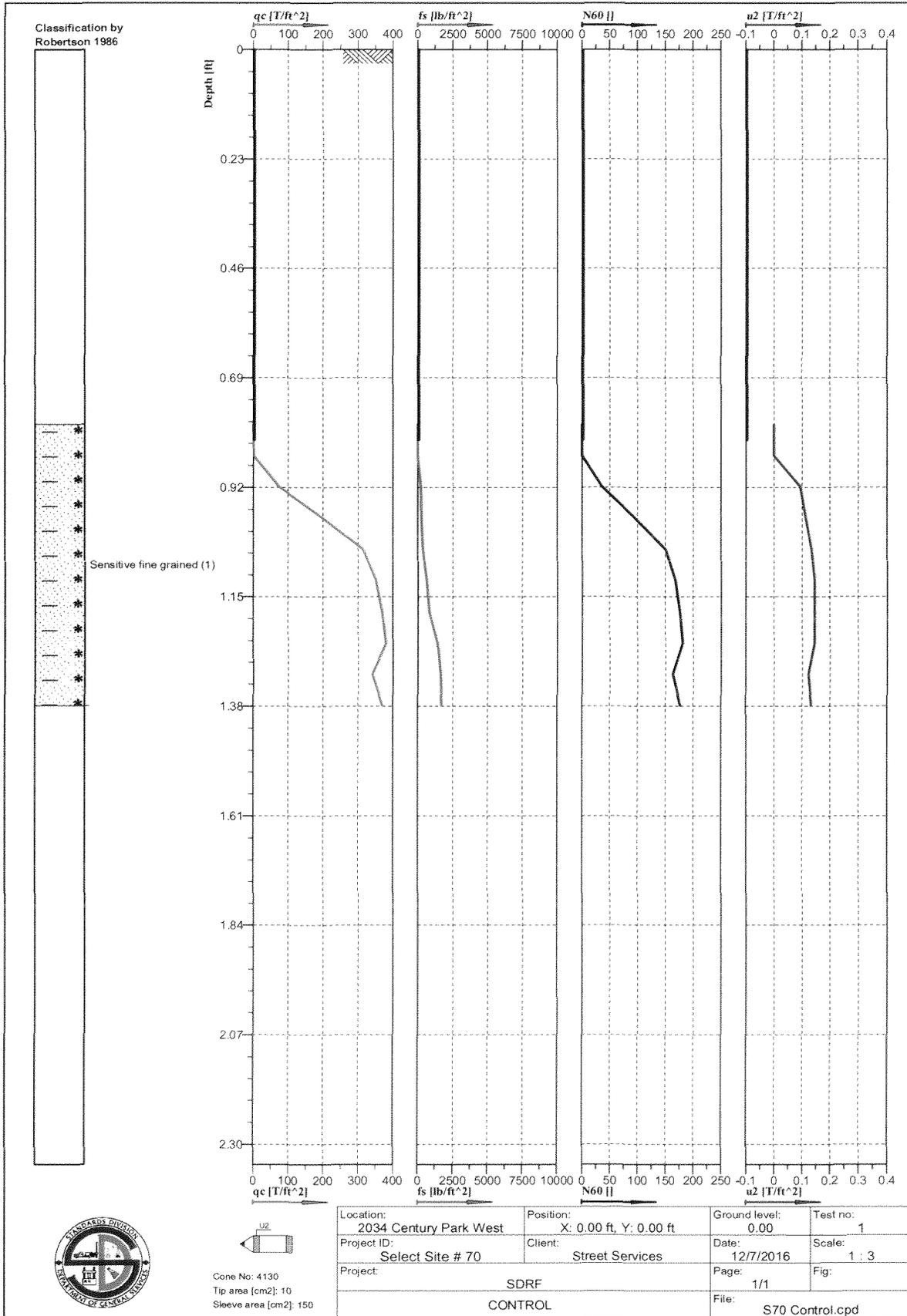
Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 2034 Century Park West	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 70	Client: Street Services	Date: 12/7/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S70 Trench In.cpd	

Lab No.: 17-741-233



Lab No.: 17-741-234



Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

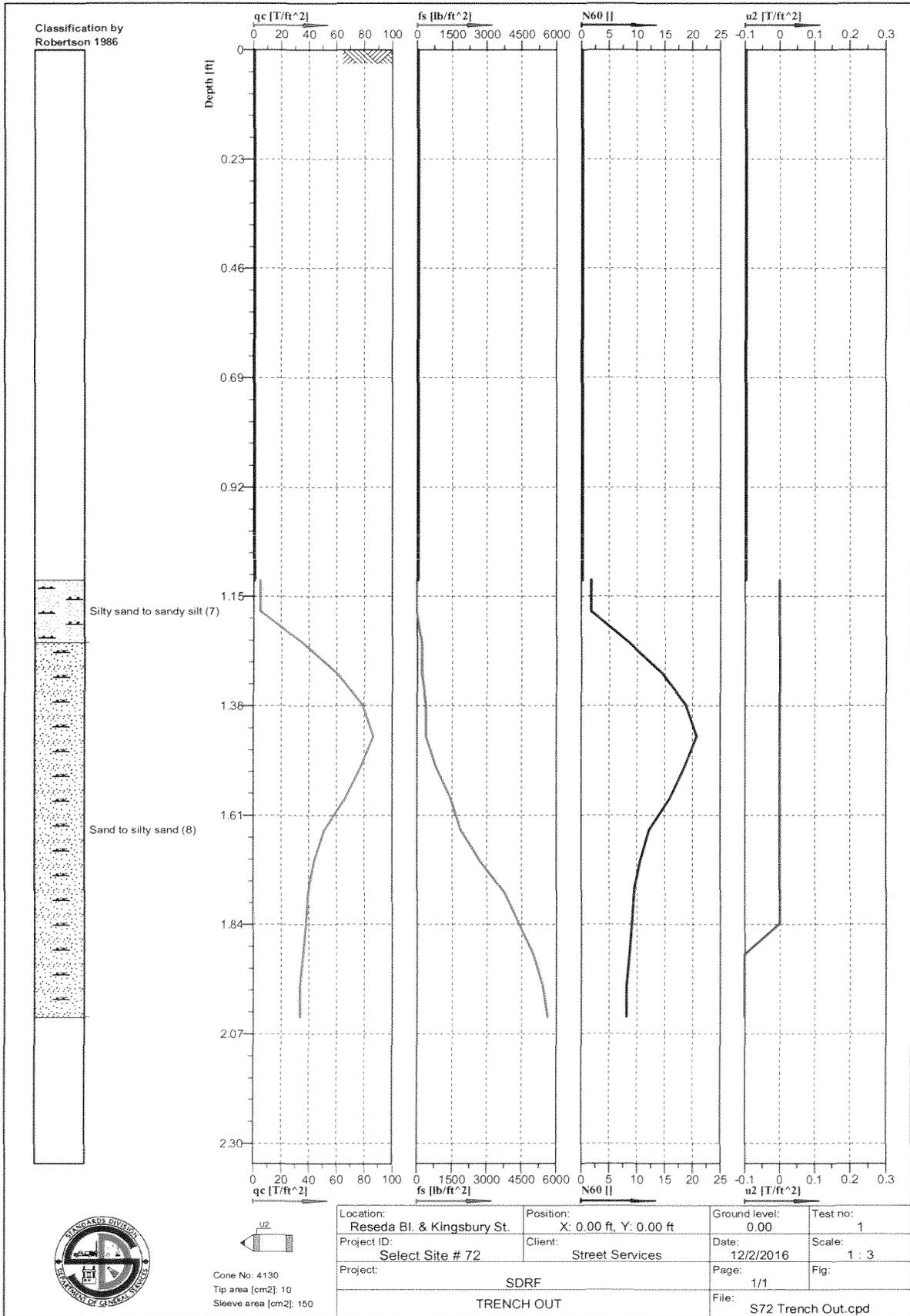
Asphalt thickness = 7.5”.



Cone No: 4130
 Tip area [cm2]: 10
 Sleeve area [cm2]: 150

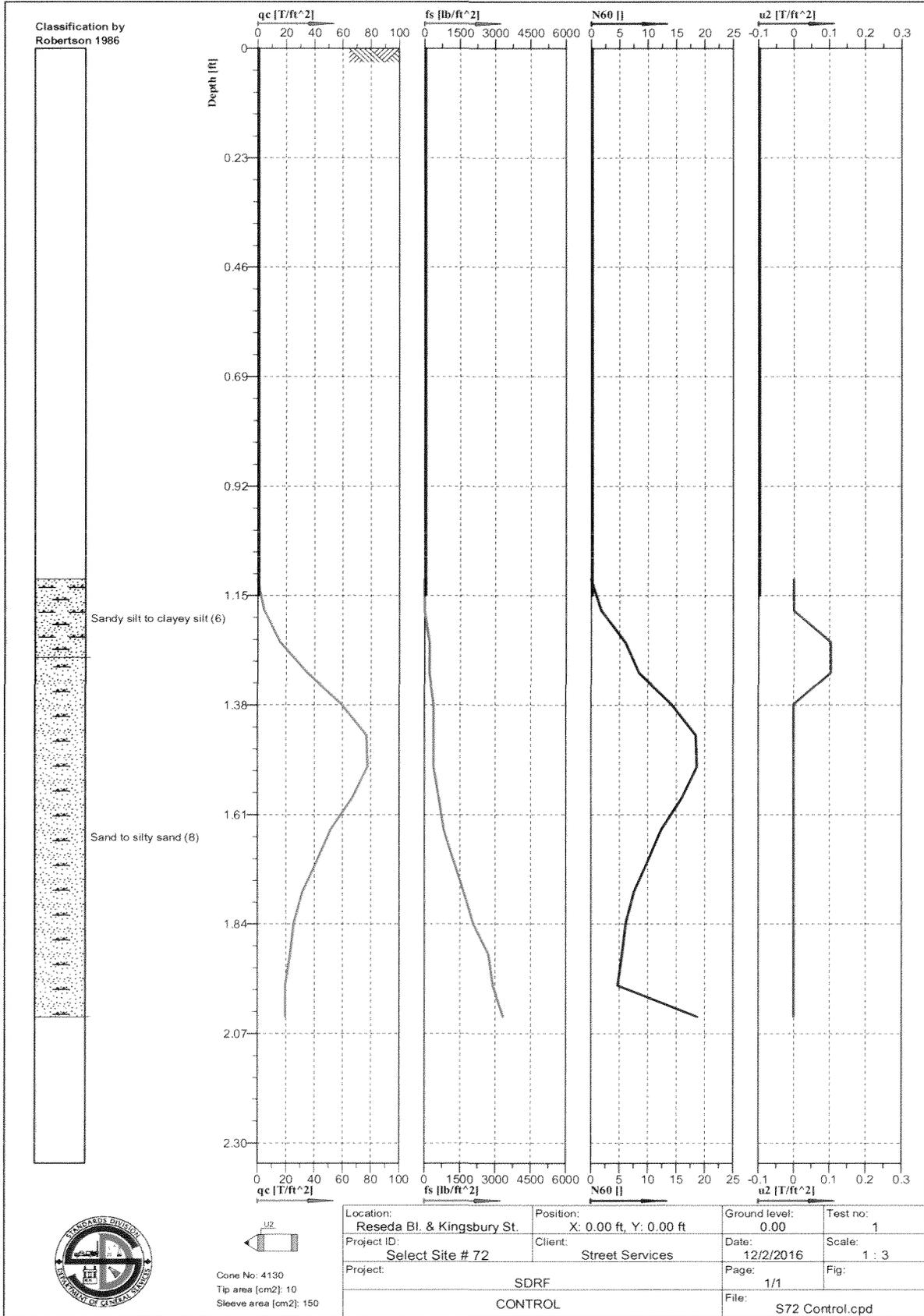
Location: Reseda Bl & Kingsbury St	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 72	Client: Streett Services	Date: 12/2/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S72 Trench In.cpt	

Lab No.: 17-741-236

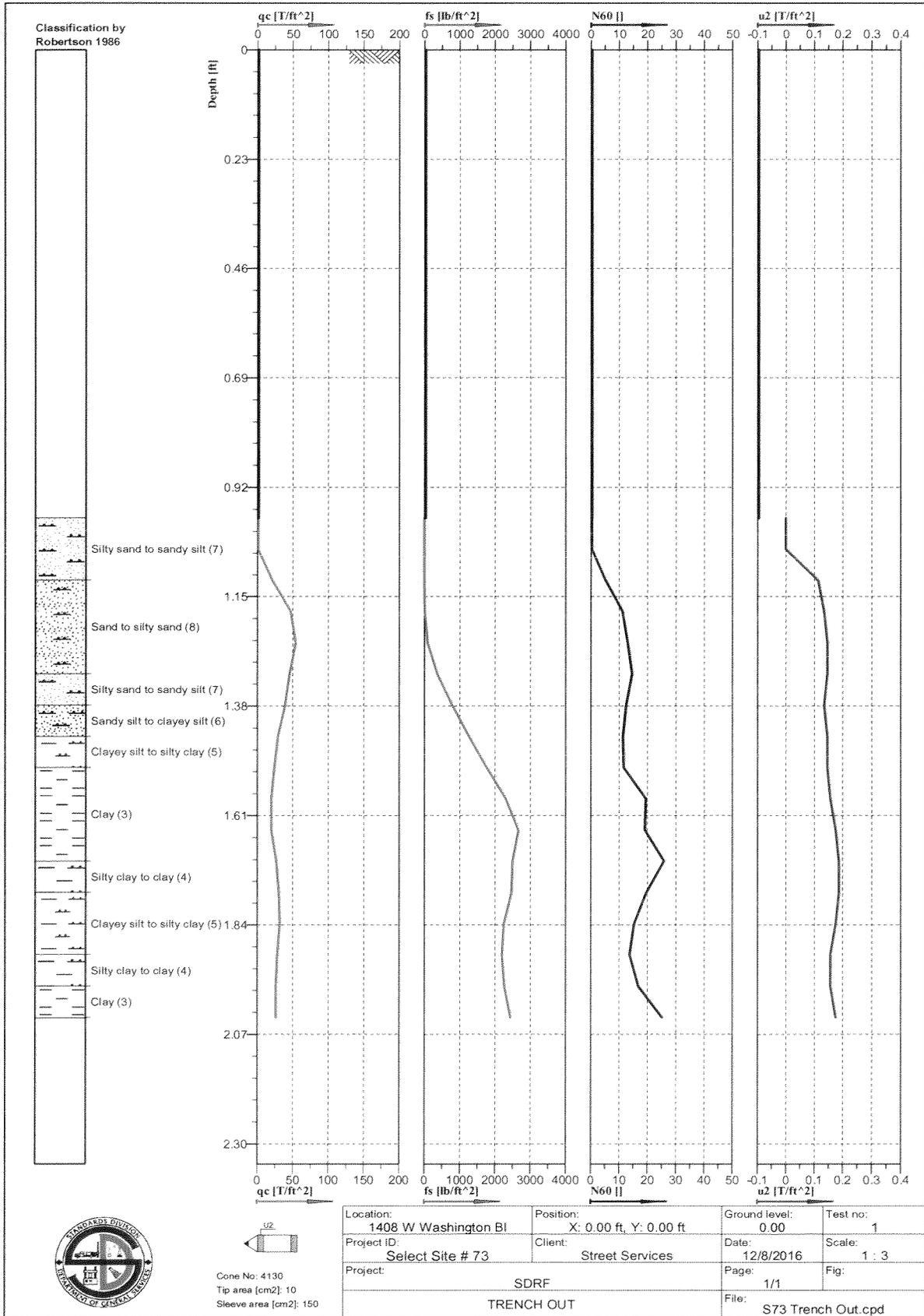


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

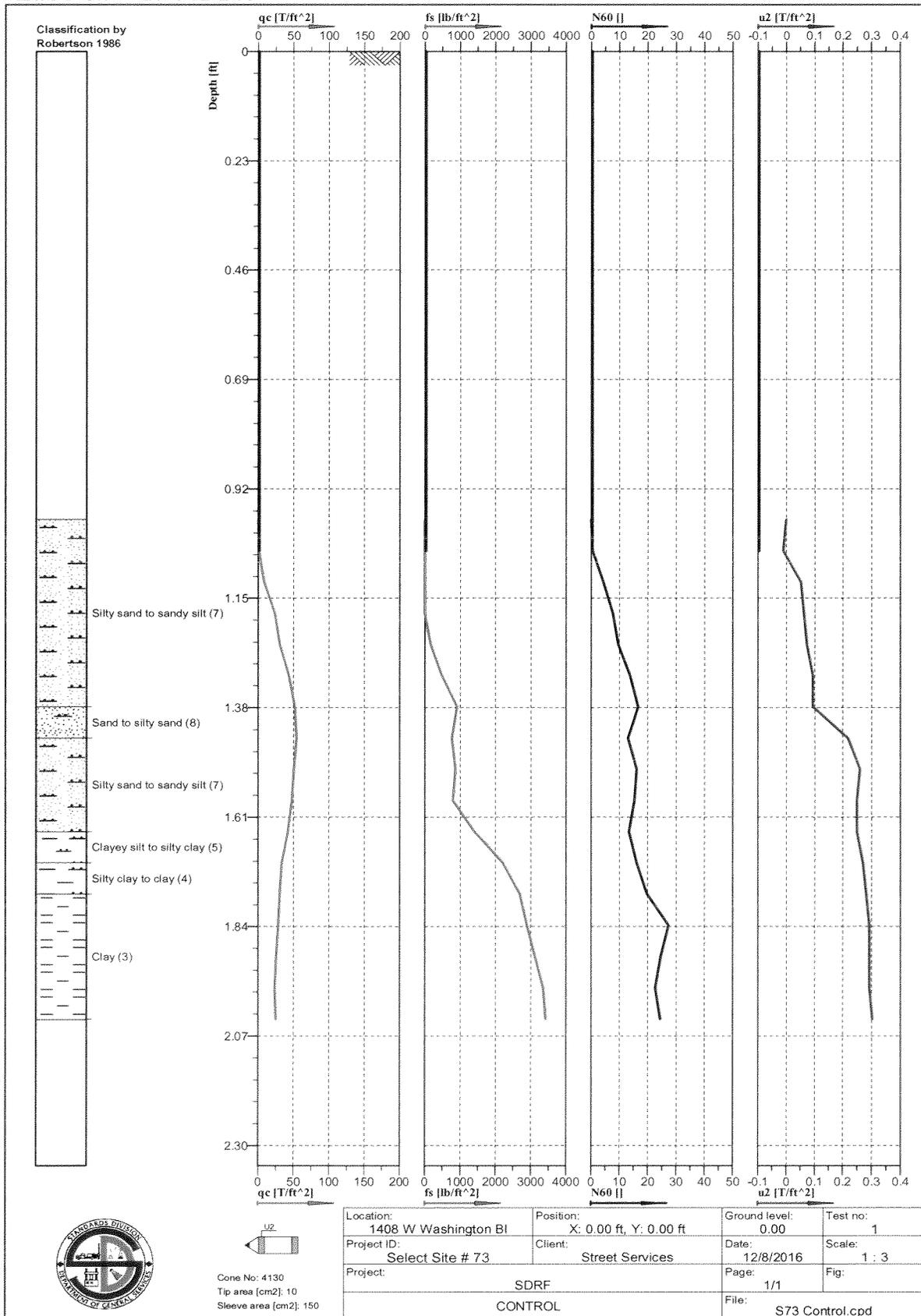
Lab No.: 17-741-237



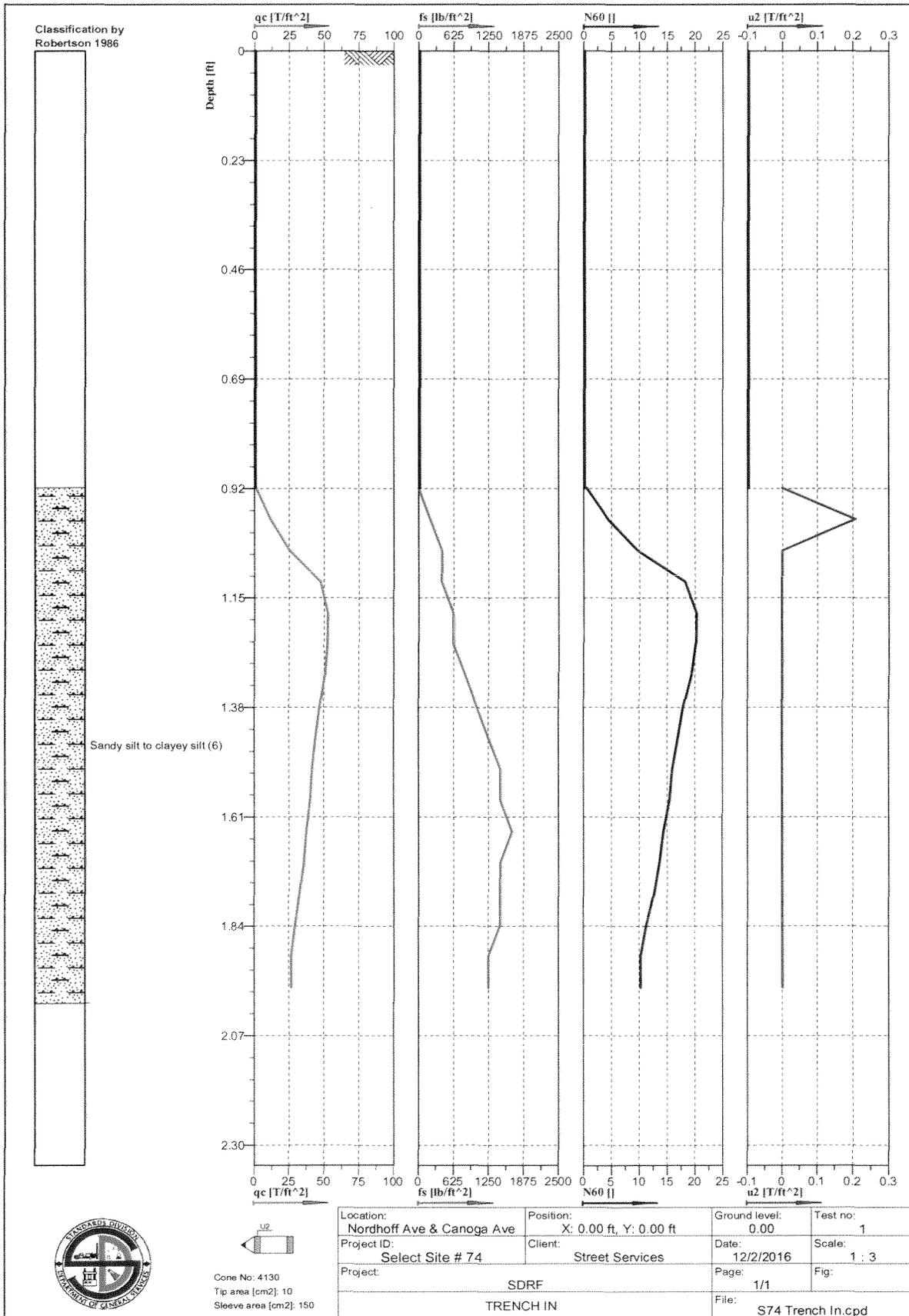
Lab No.: 17-741-239



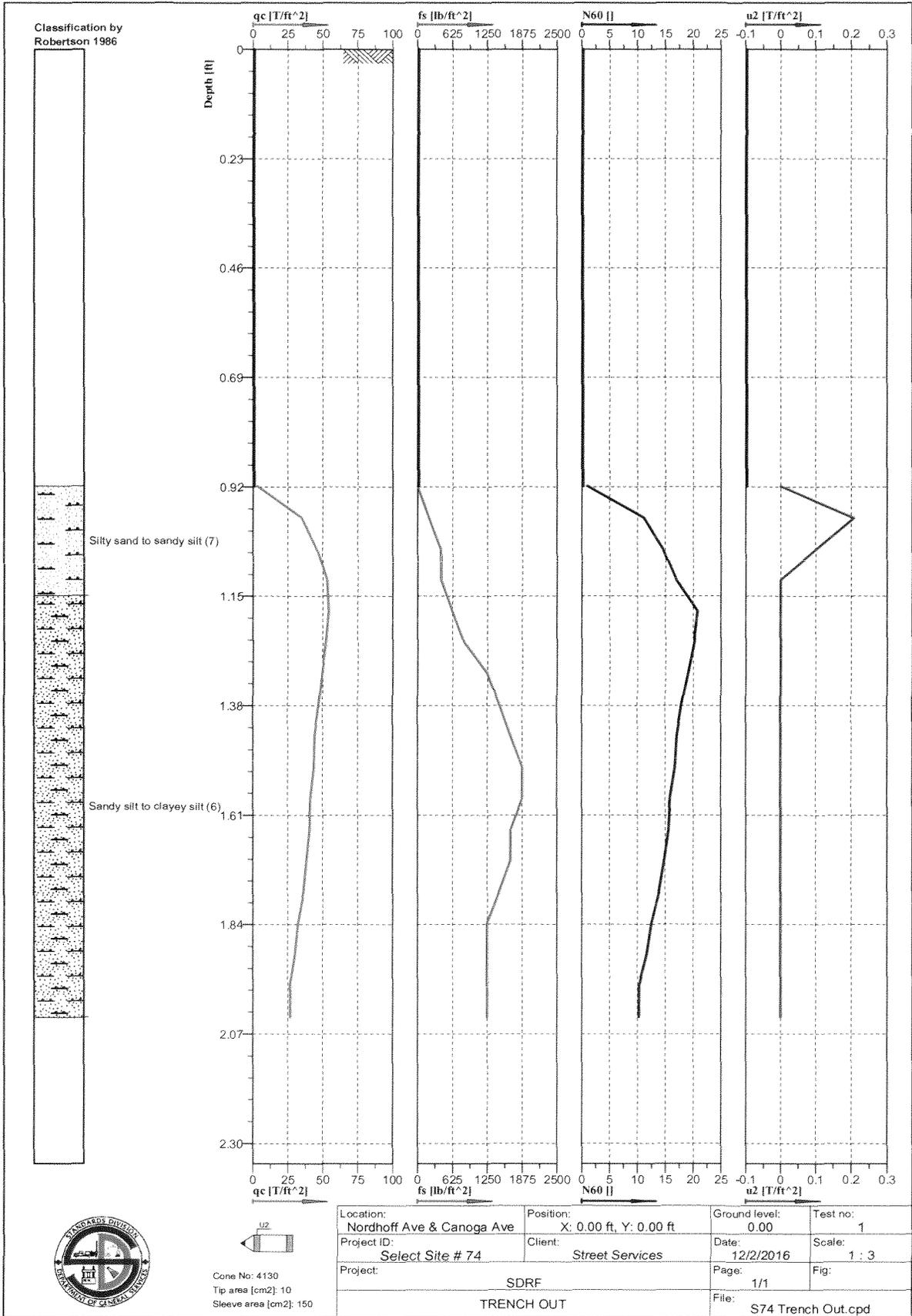
Lab No.: 17-741-240



Lab No.: 17-741-241

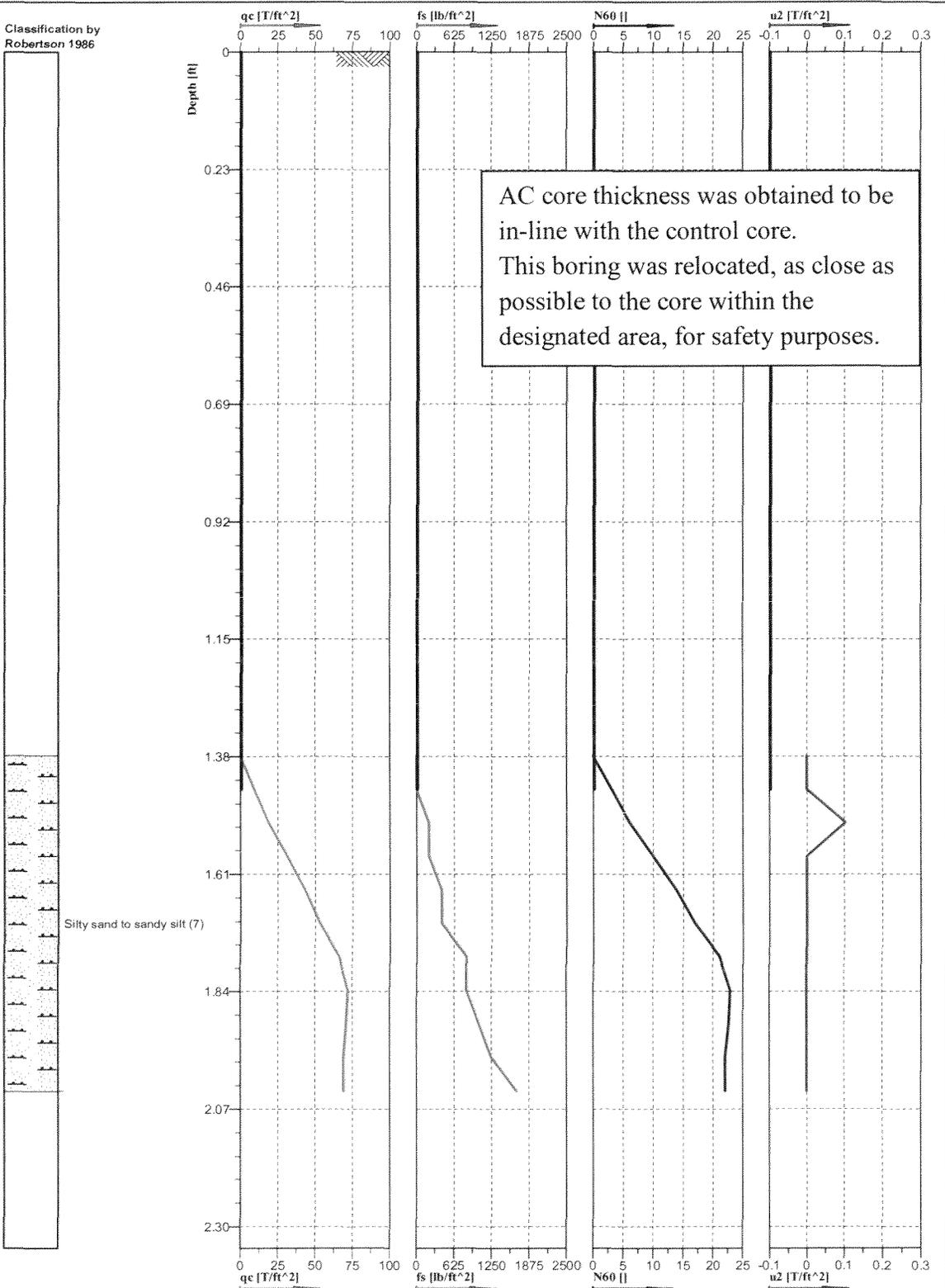


Lab No.: 17-741-242



Lab No.: 17-741-243

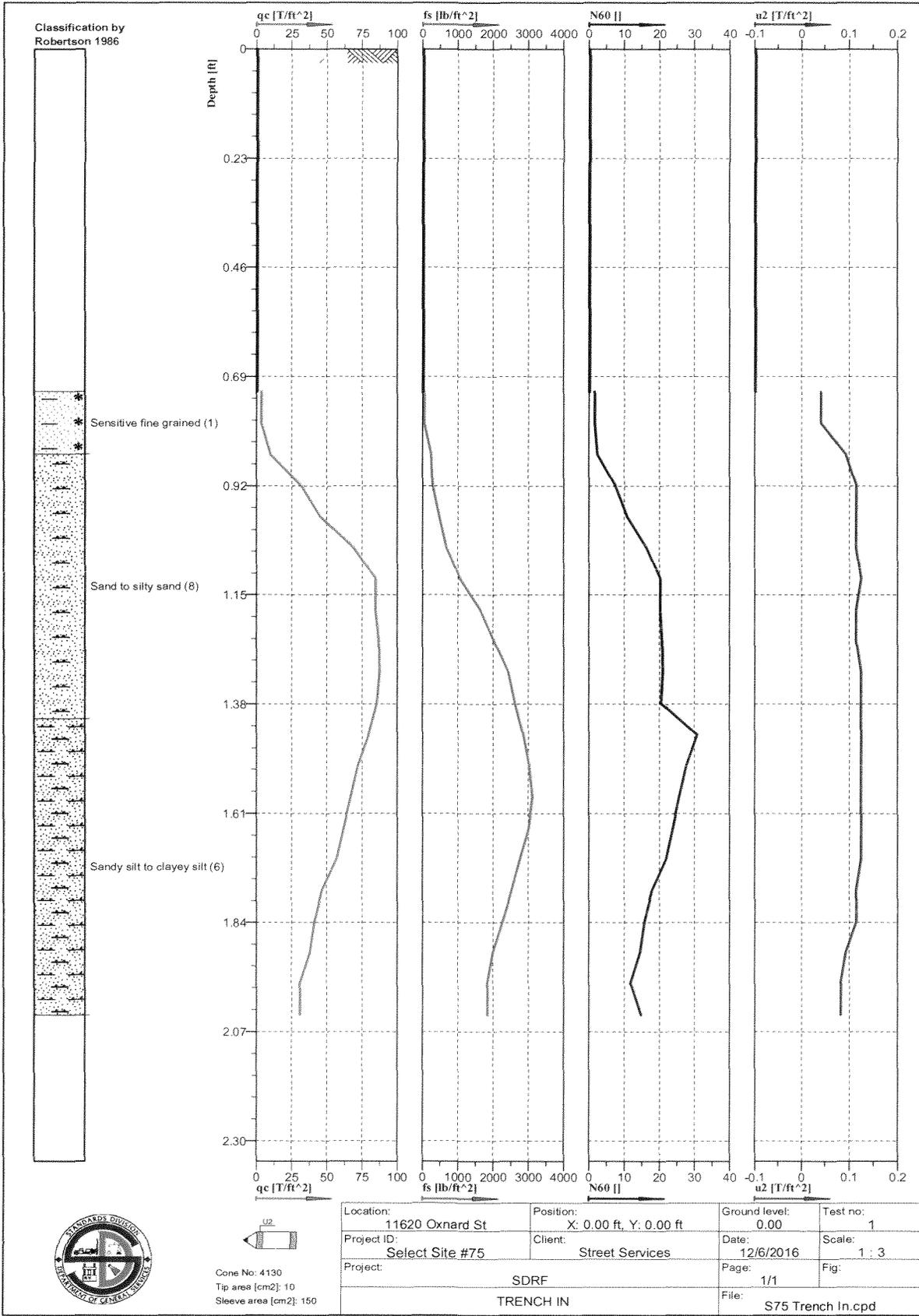
Classification by
Robertson 1986



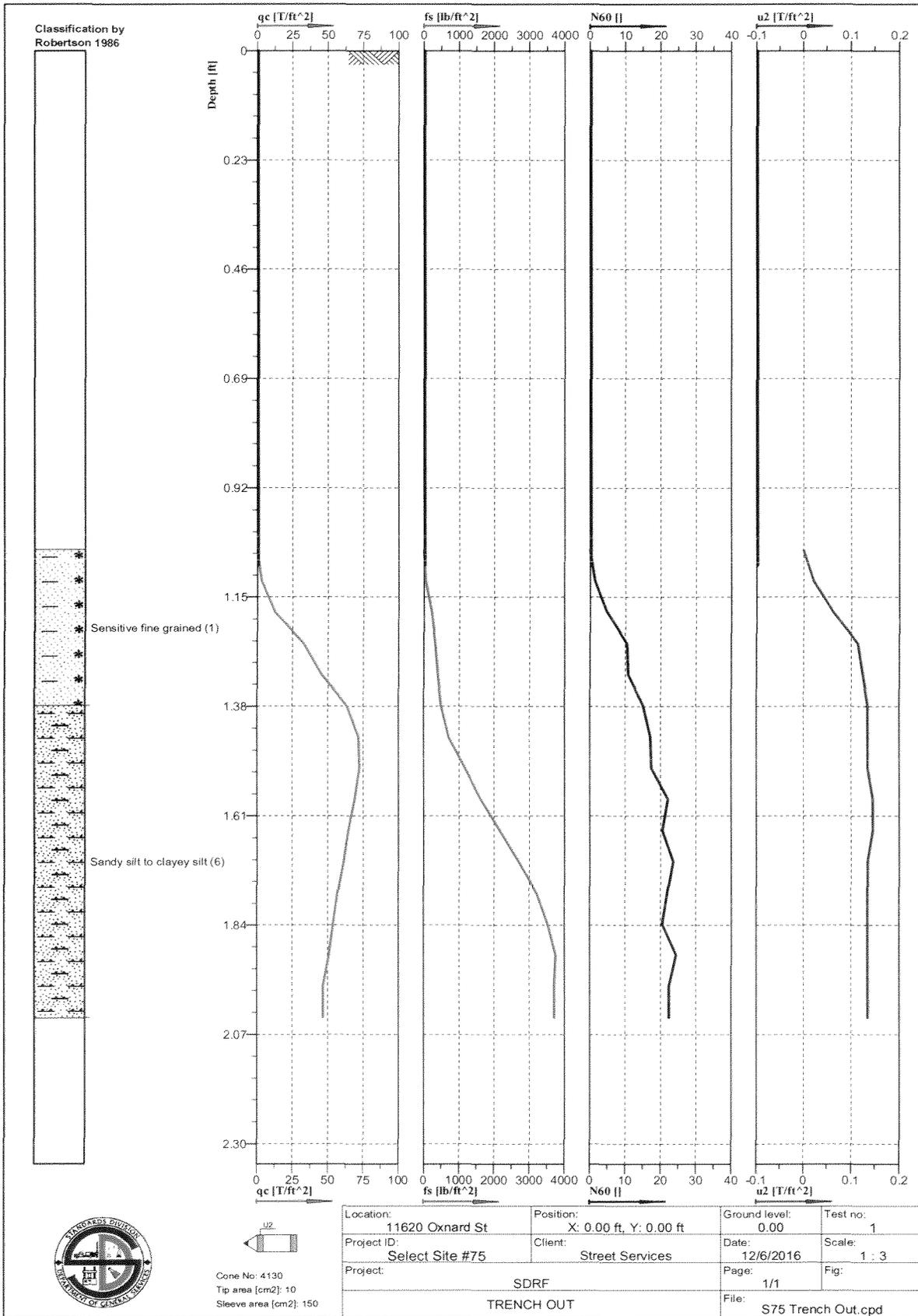
Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

Location: Nordhoff Ave & Canoga Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 74	Client: Street Services	Date: 12/2/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S74 Control.cpd	

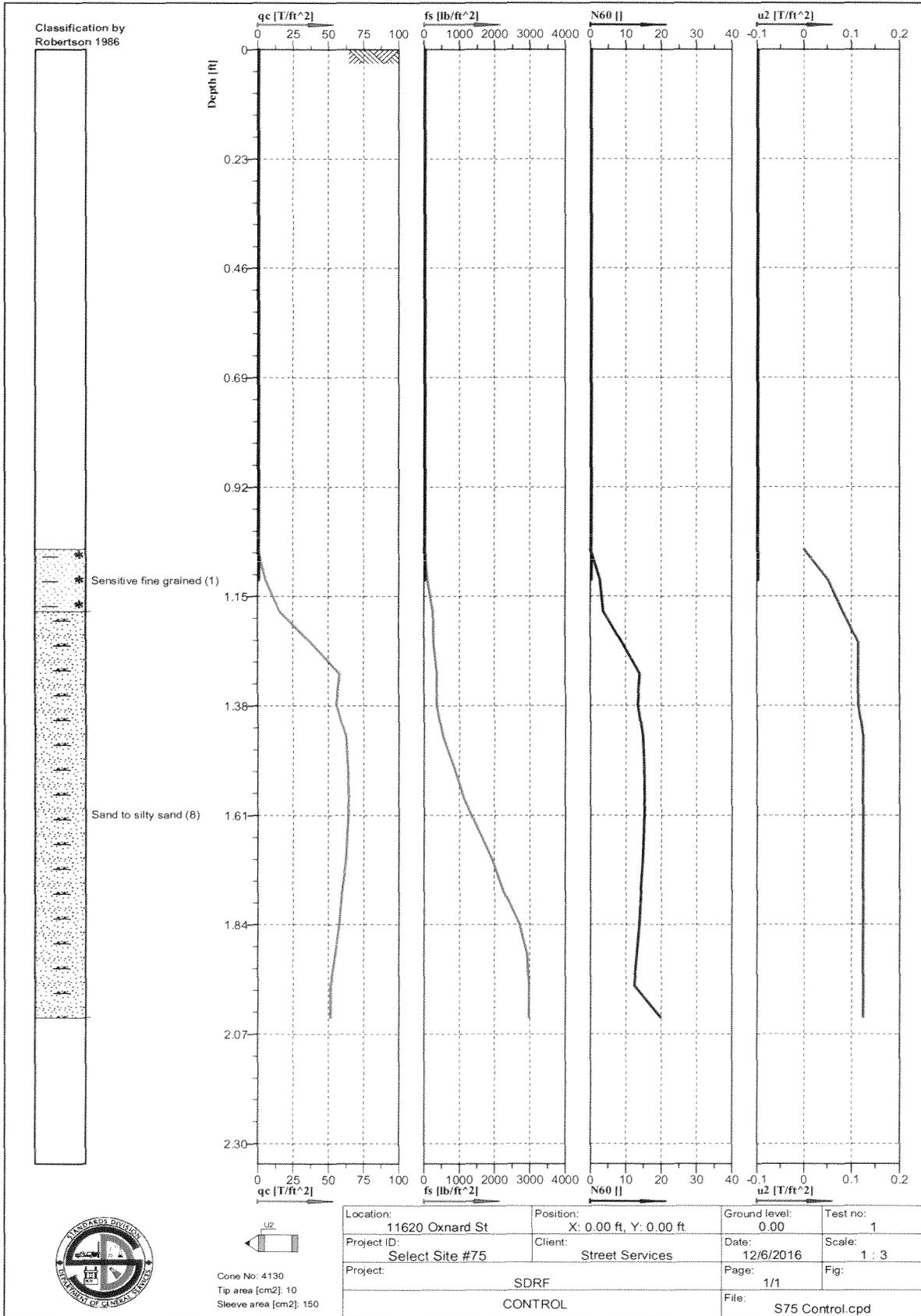
Lab No.: 17-741-244



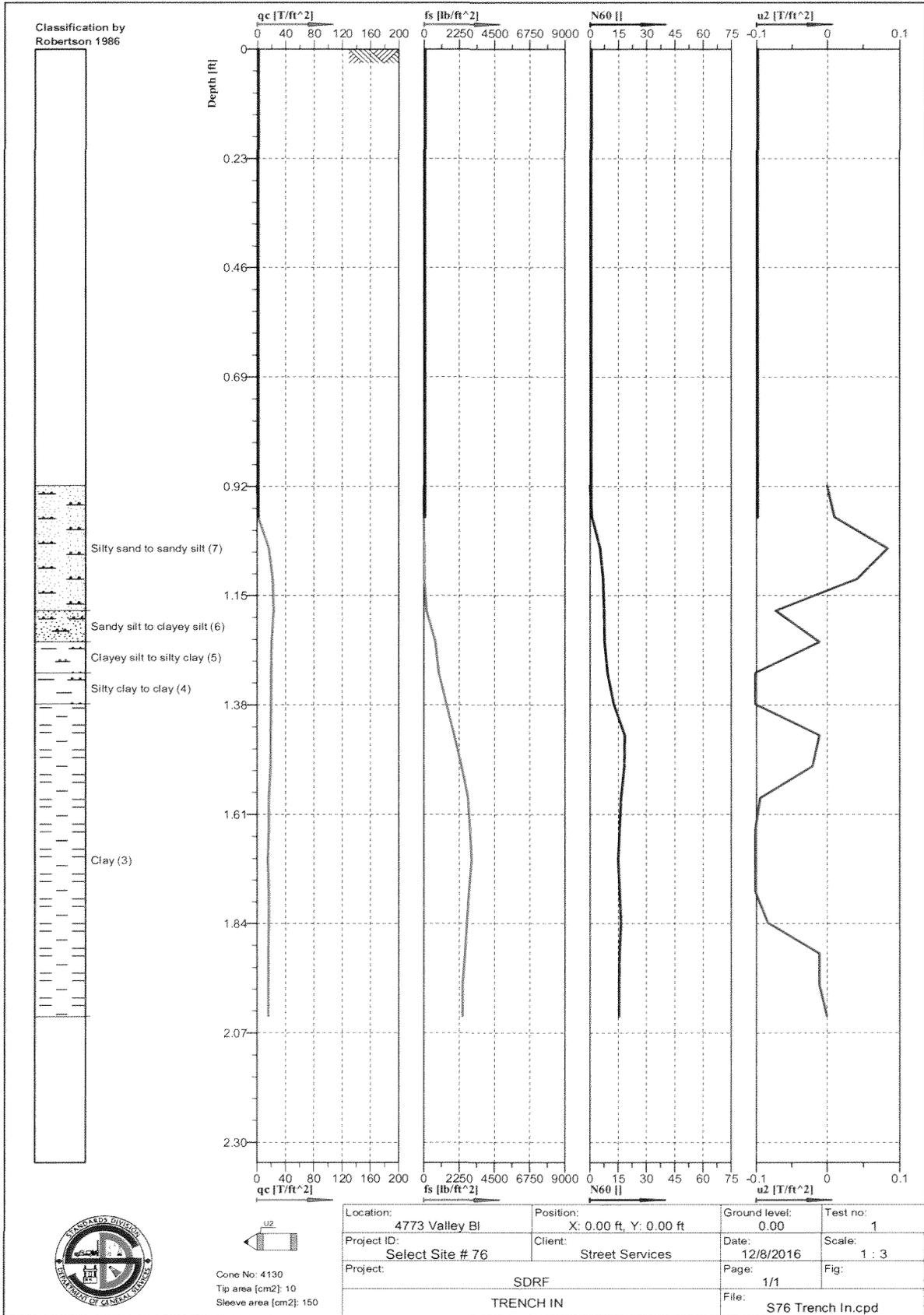
Lab No.: 17-741-245



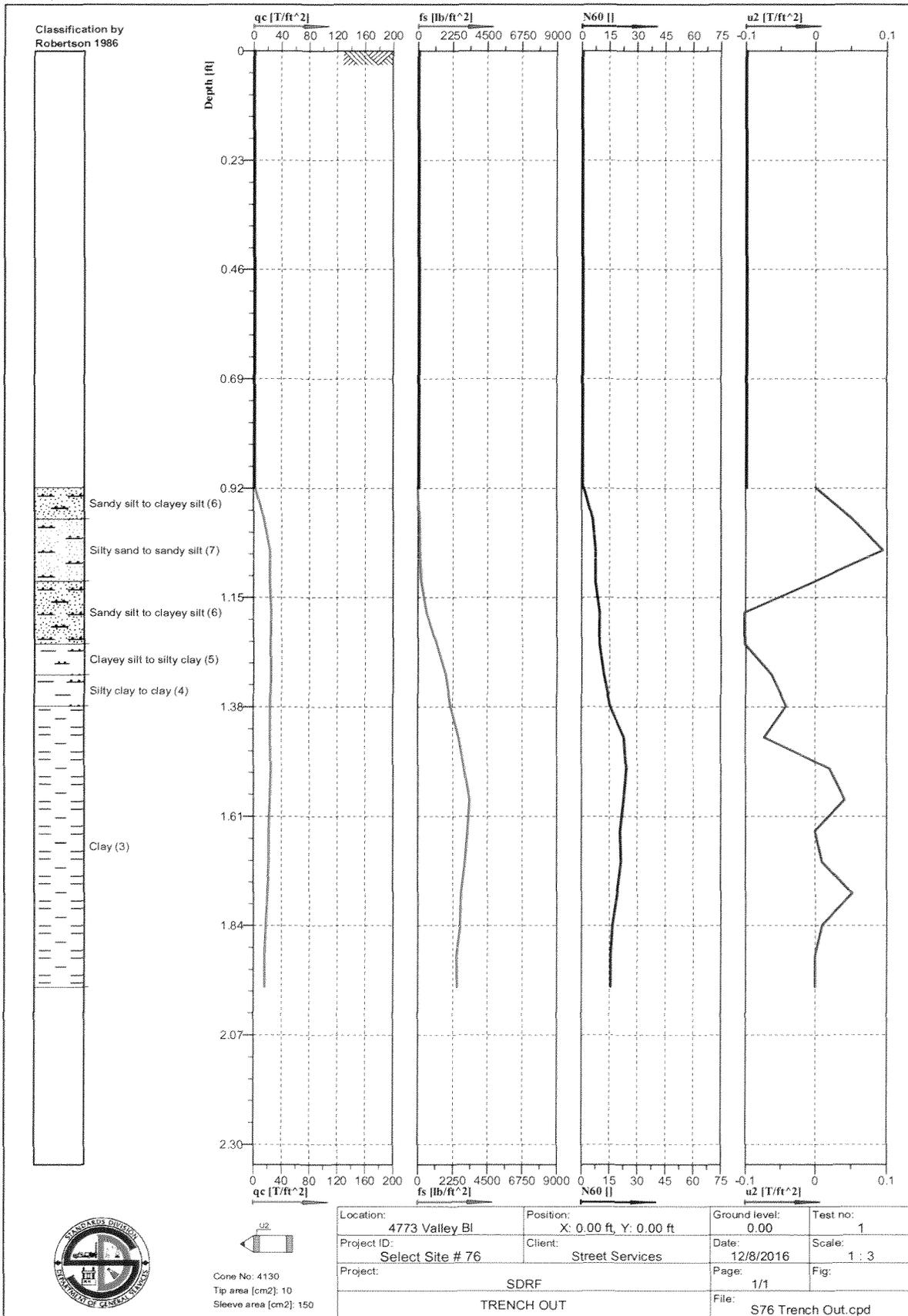
Lab No.: 17-741-246



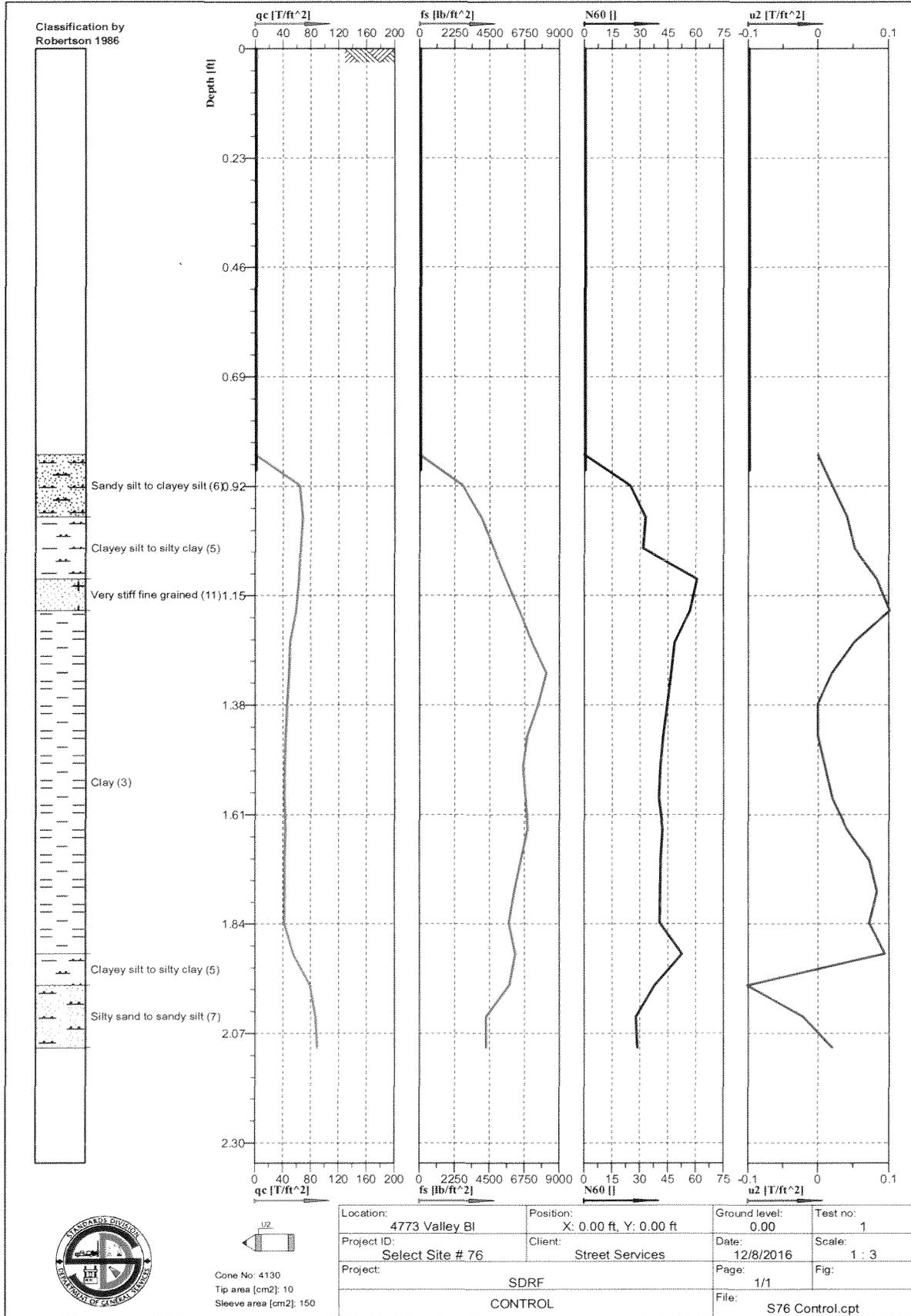
Lab No.: 17-741-247



Lab No.: 17-741-248

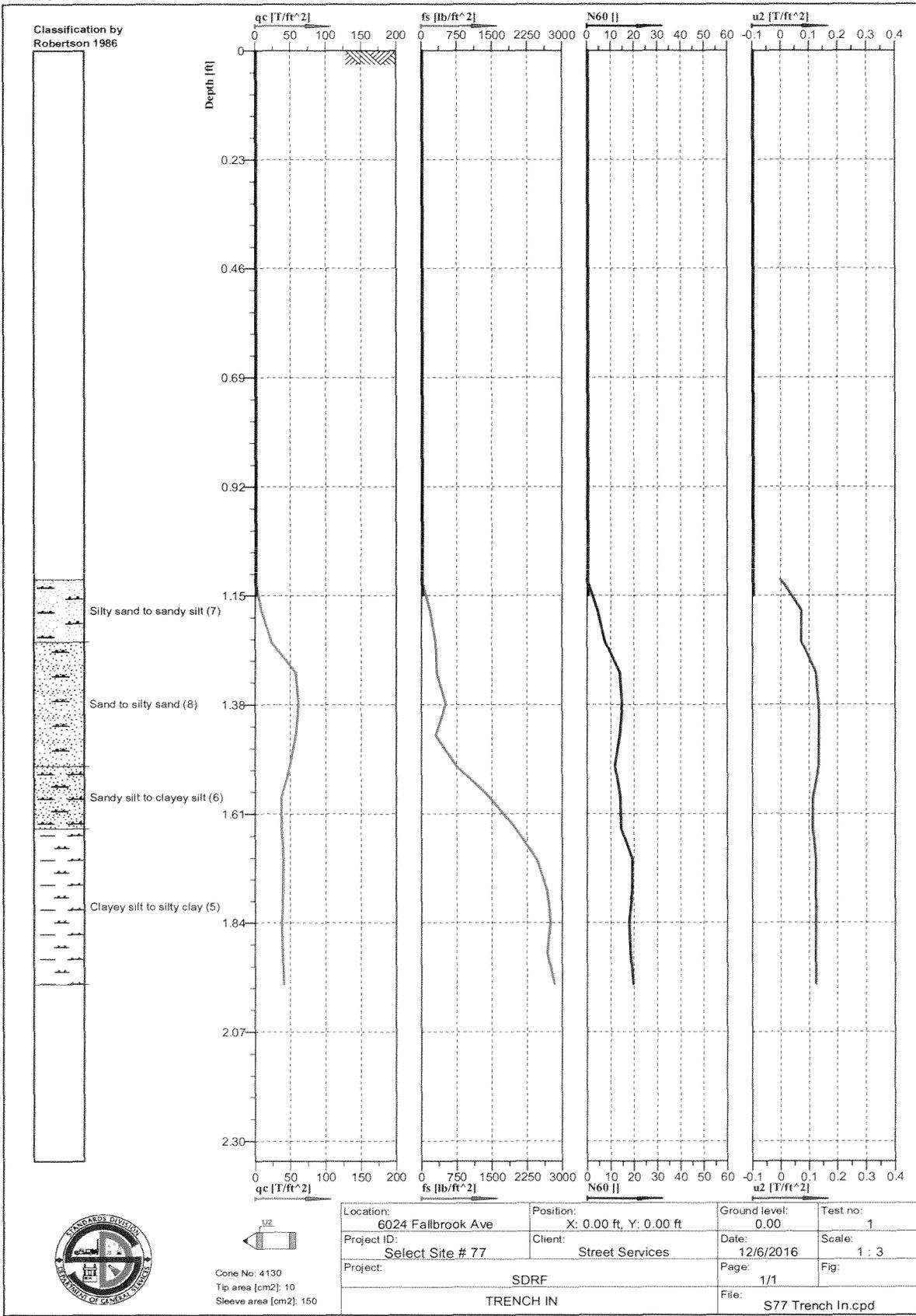


Lab No.: 17-741-249

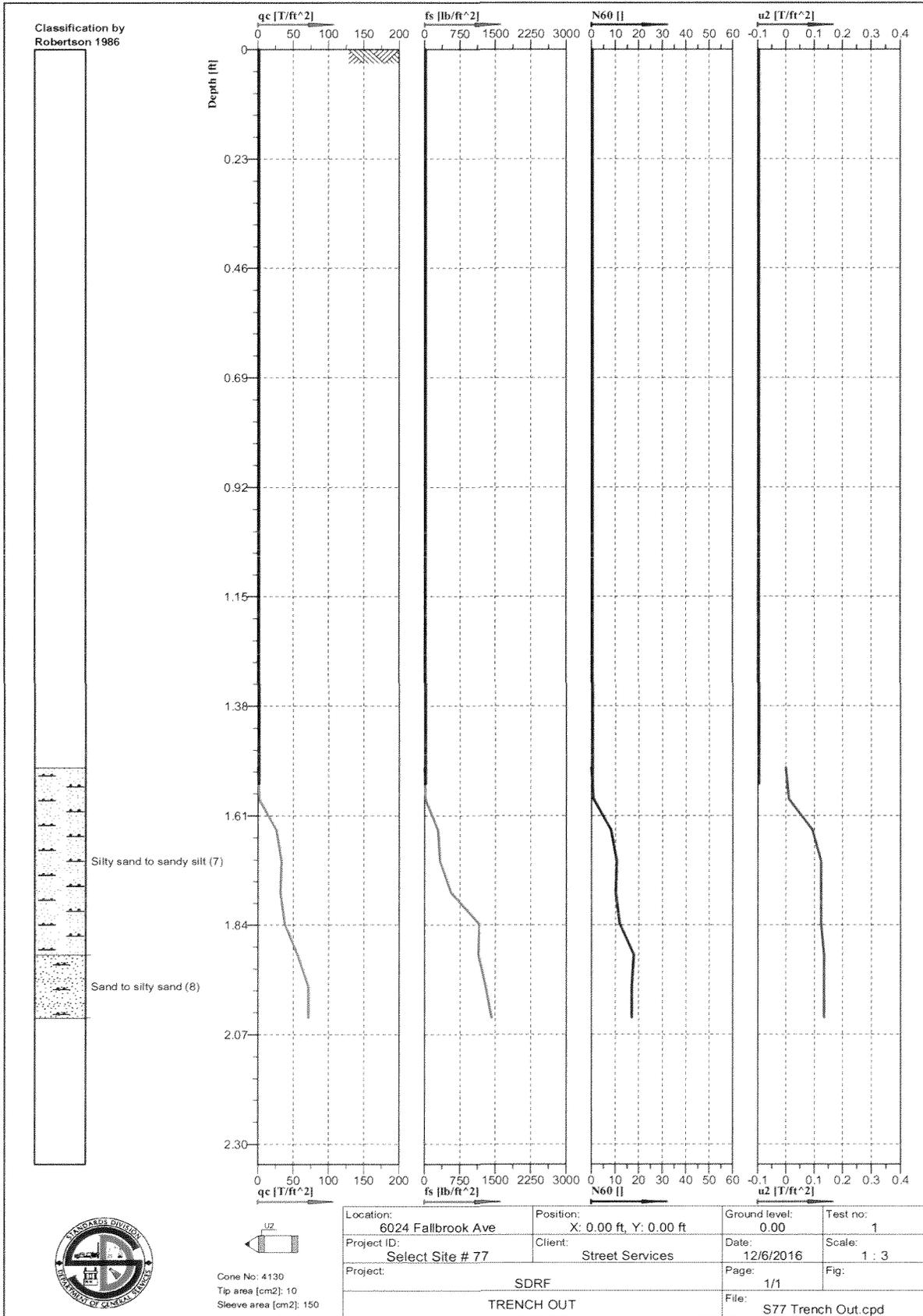


Location: 4773 Valley Bl	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 76	Client: Street Services	Date: 12/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
CONTROL		File: S76 Control.cpt	

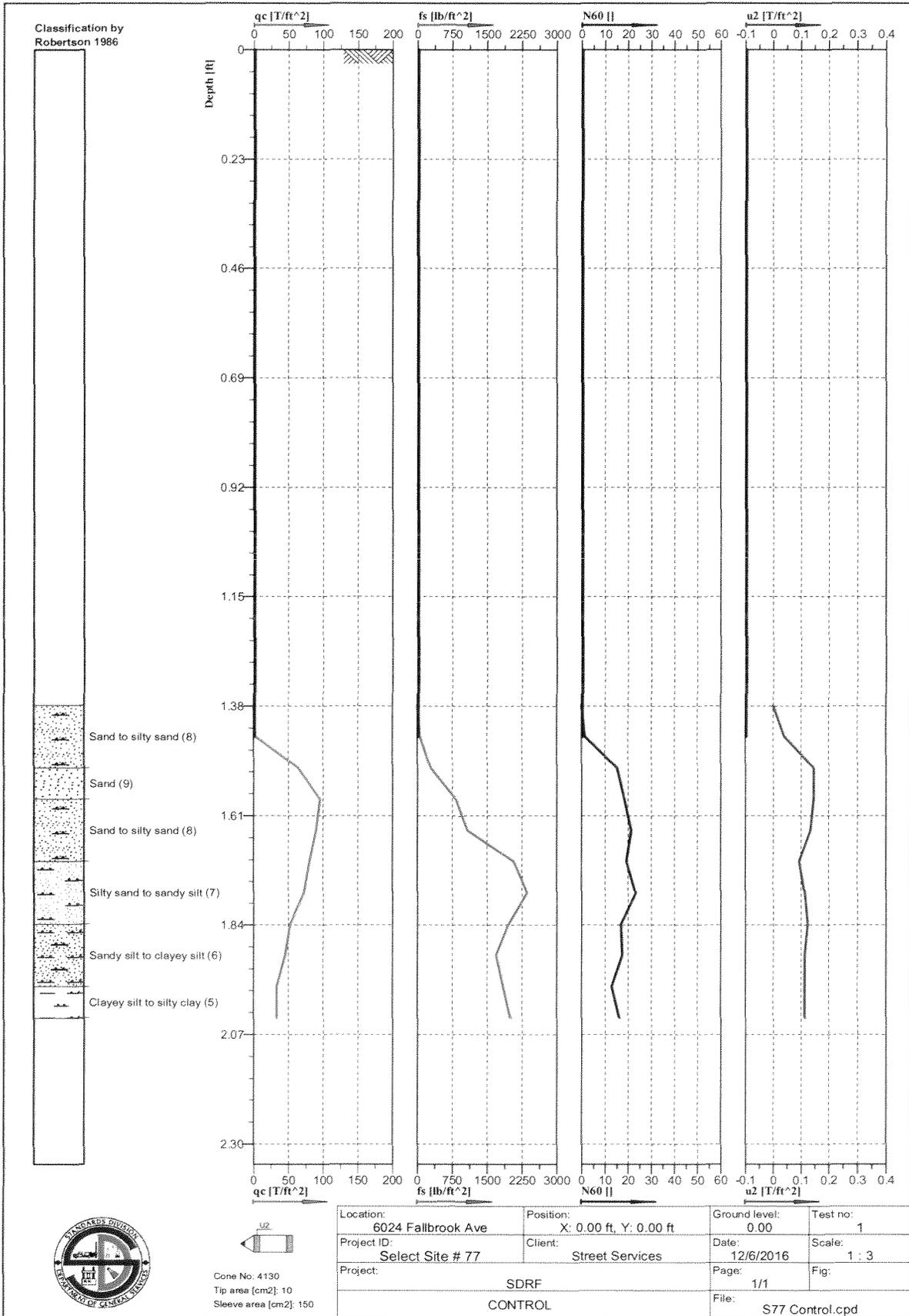
Lab No.: 17-741-250



Lab No.: 17-741-251



Lab No.: 17-741-252





 Cone No: 4130

 Tip area [cm²]: 10

 Sleeve area [cm²]: 150

Location: 6024 Fallbrook Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 77	Client: Street Services	Date: 12/6/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
CONTROL		File: S77 Control.cpd	

Lab No.: 17-741-253

Trench backfill consists of cemented sand (slurry). No CPTU performed in this trench.

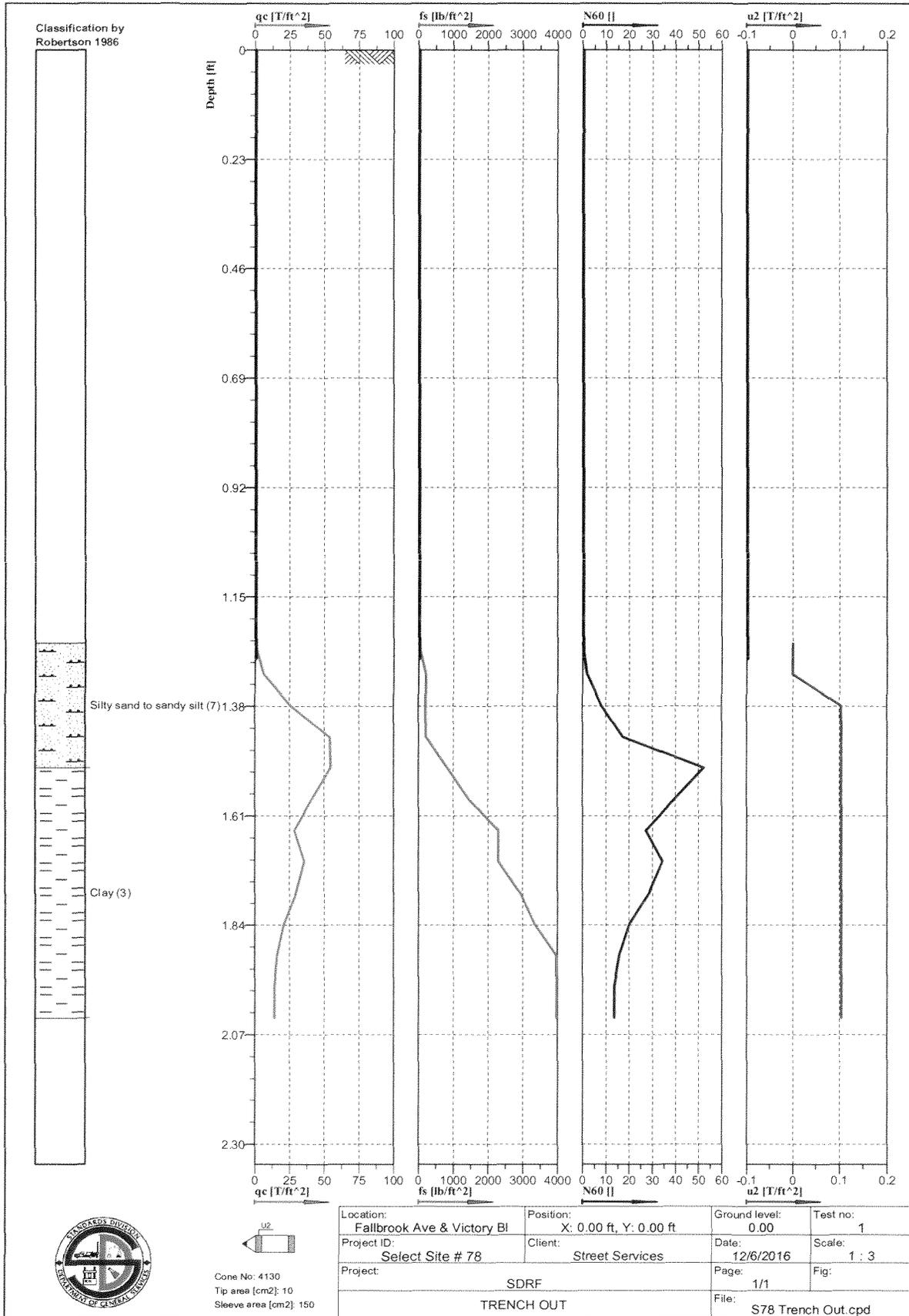
Asphalt thickness = 5.1”.



Cone No: 4130
Tip area [cm²]: 10
Sleeve area [cm²]: 150

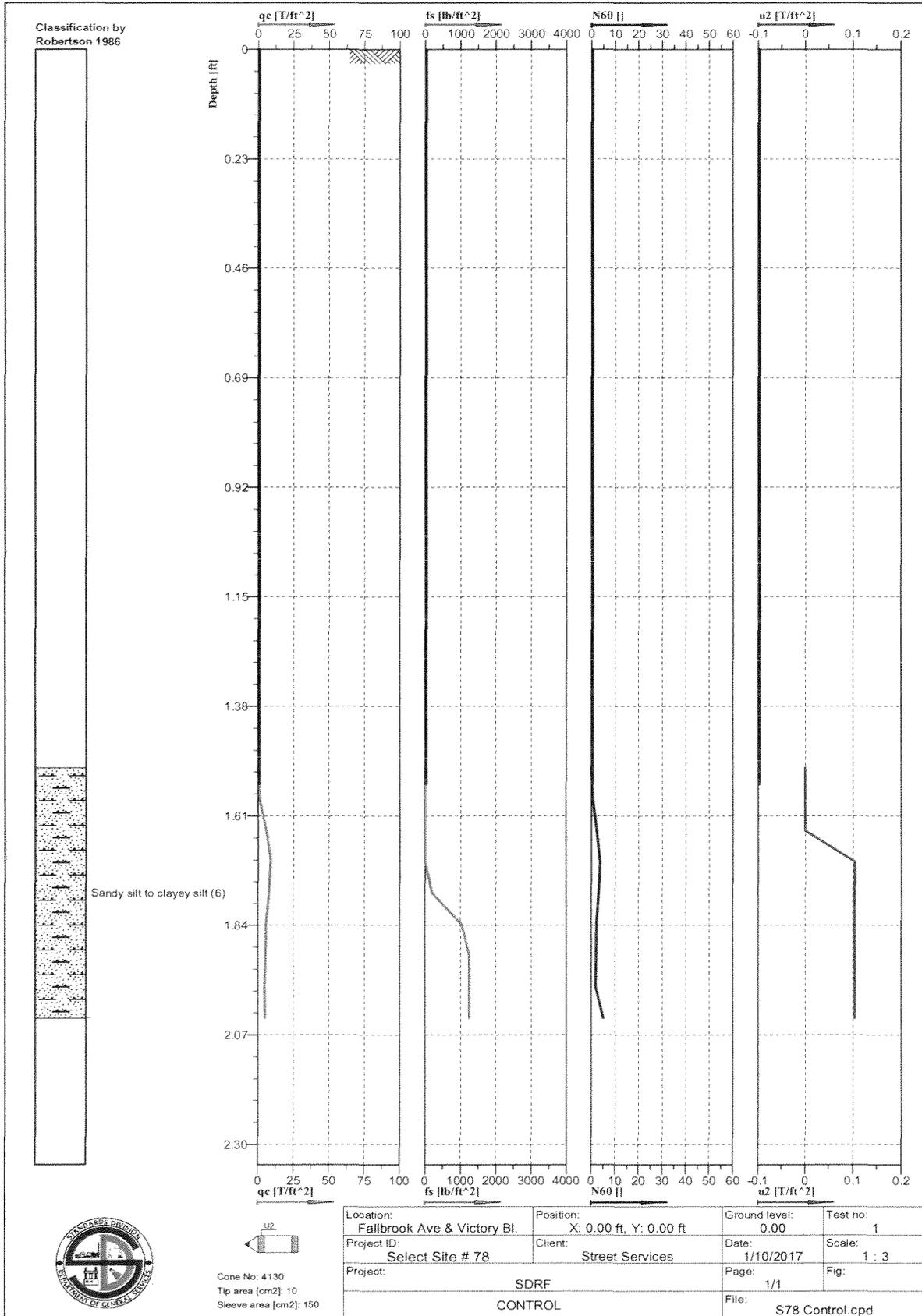
Location: Fallbrook Ave & Victory Bl.	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 78	Client: Street Services	Date: 1/10/2017	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S78 Trench In.cpd	

Lab No.: 17-741-254

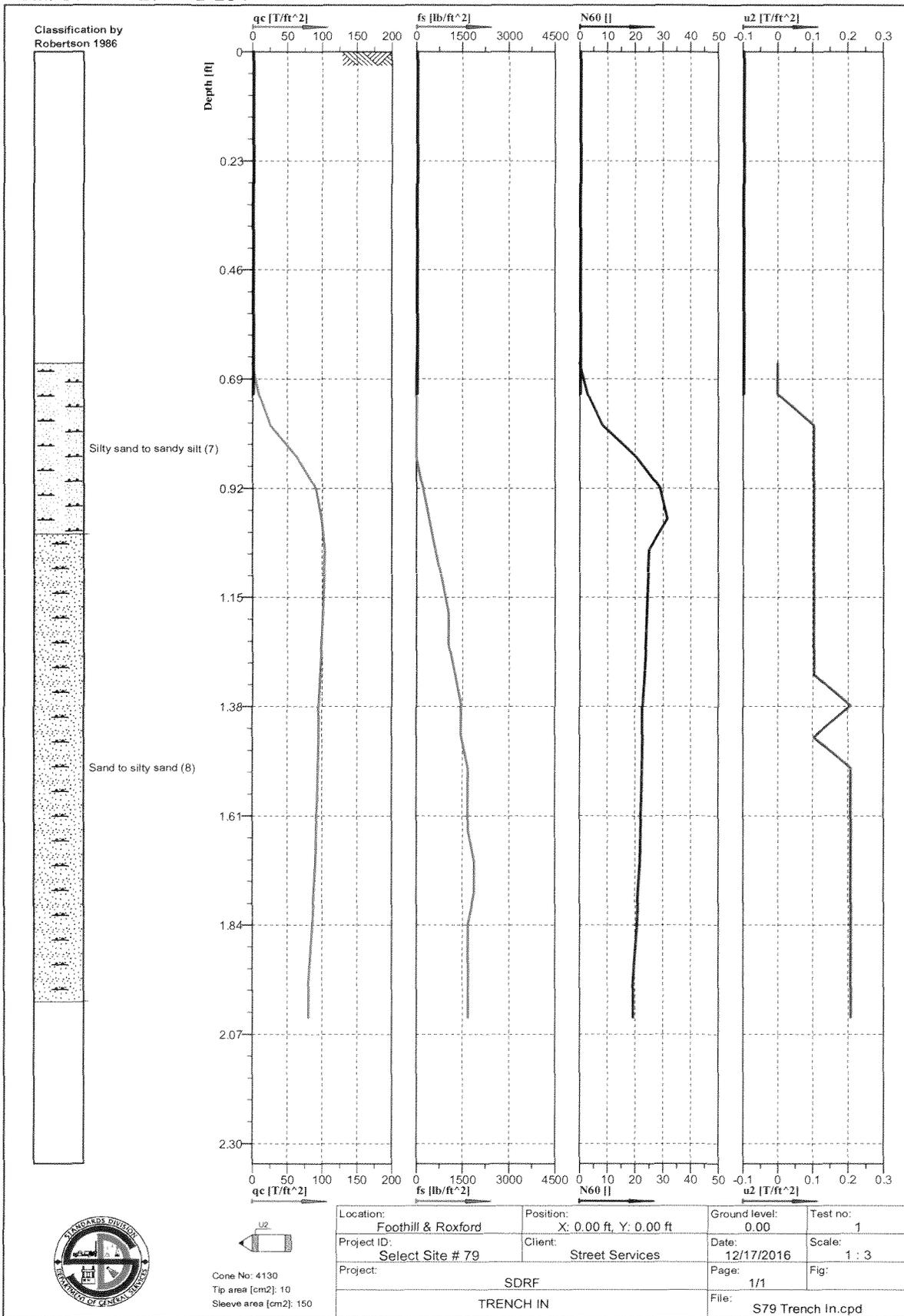


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

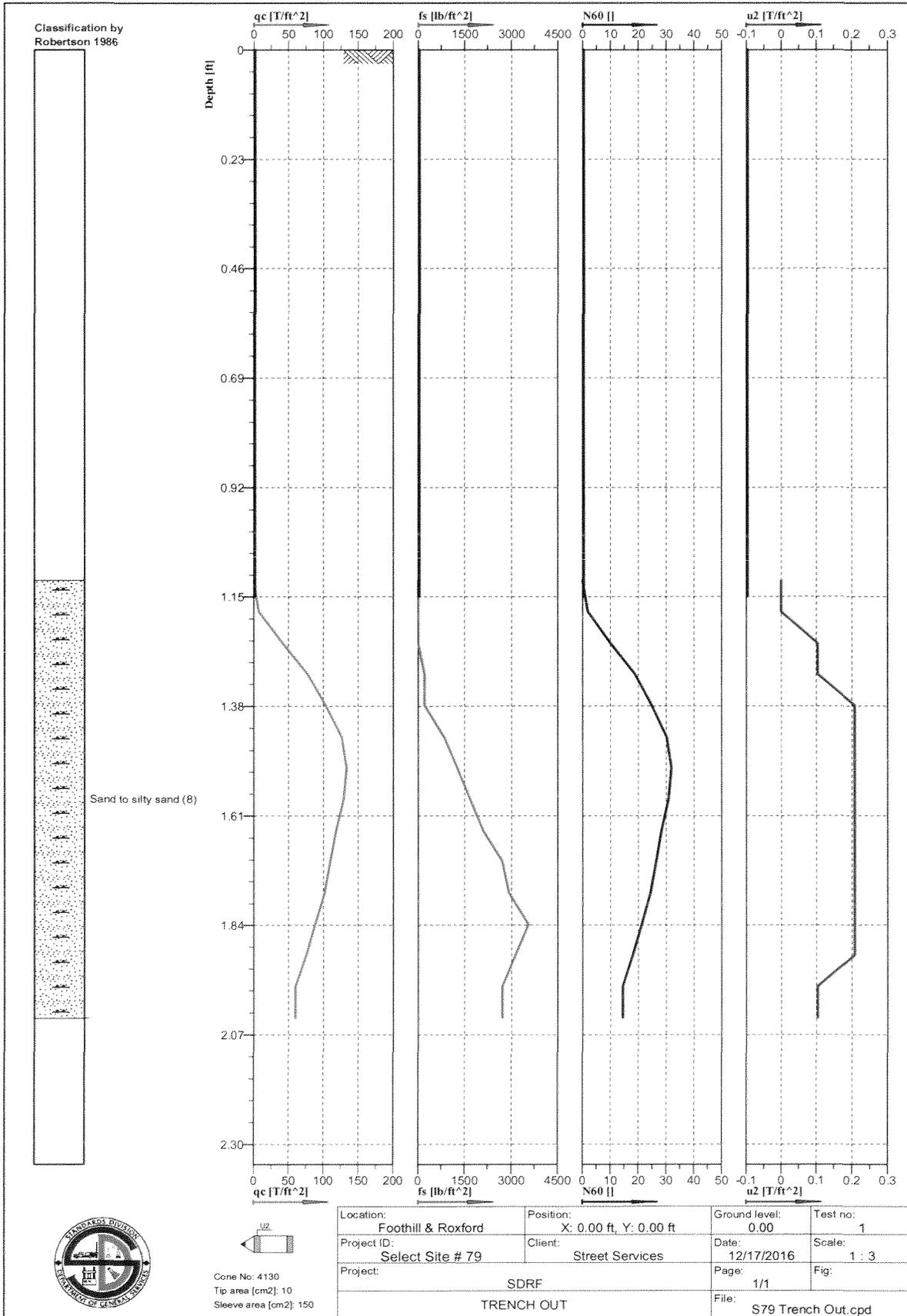
Lab No.: 17-741-255



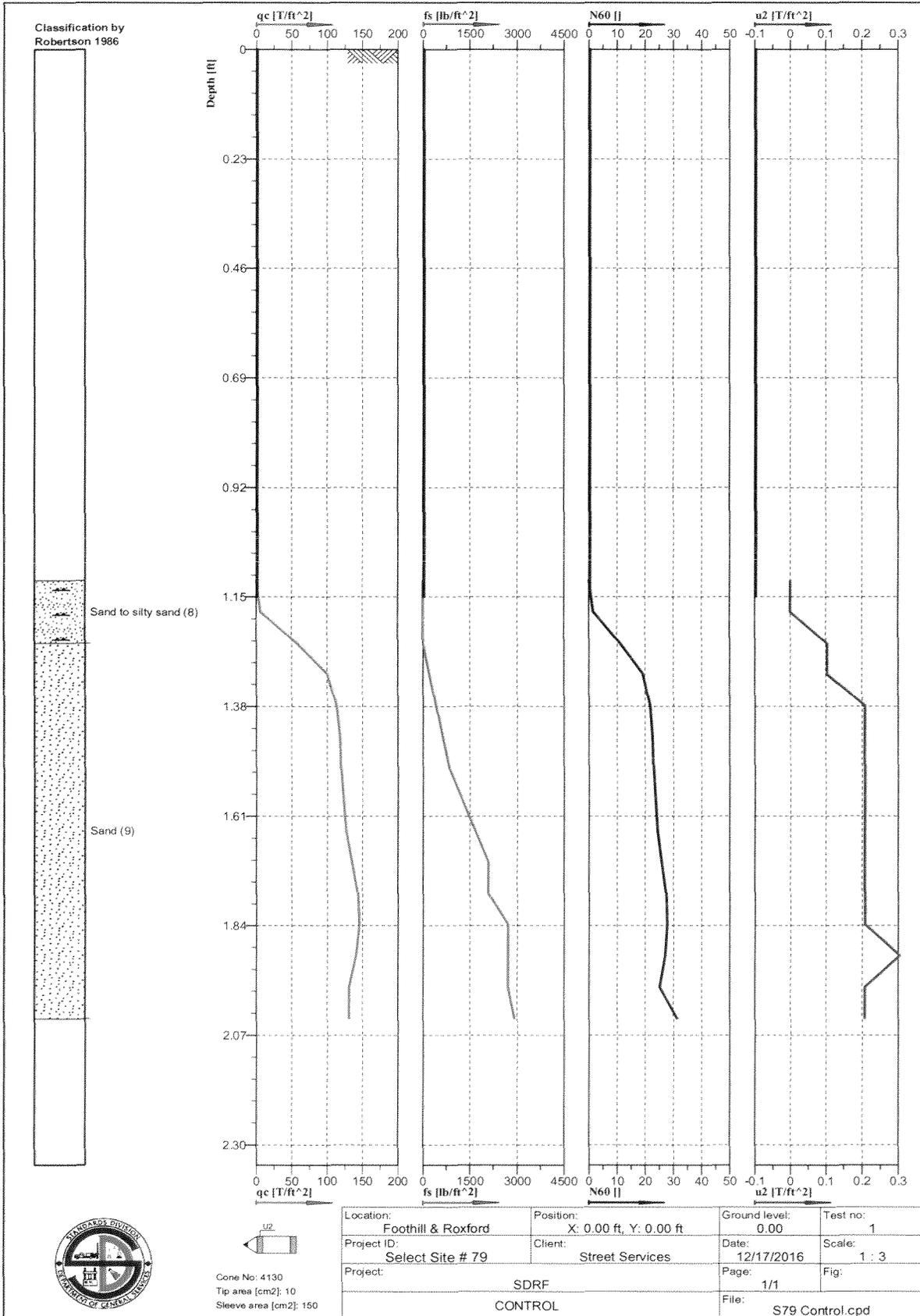
Lab No.: 17-741-256



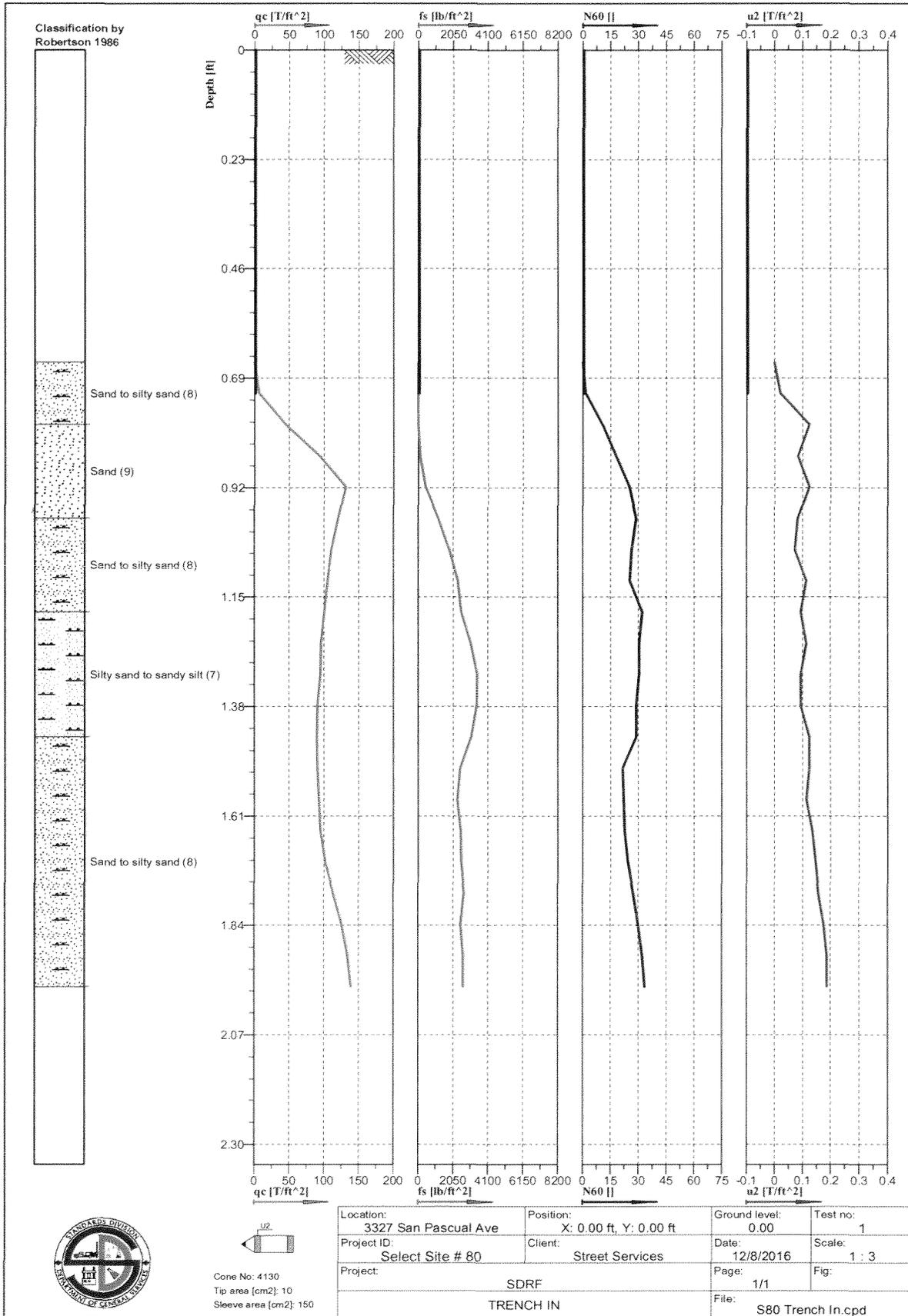
Lab No.: 17-741-257



Lab No.: 17-741-258



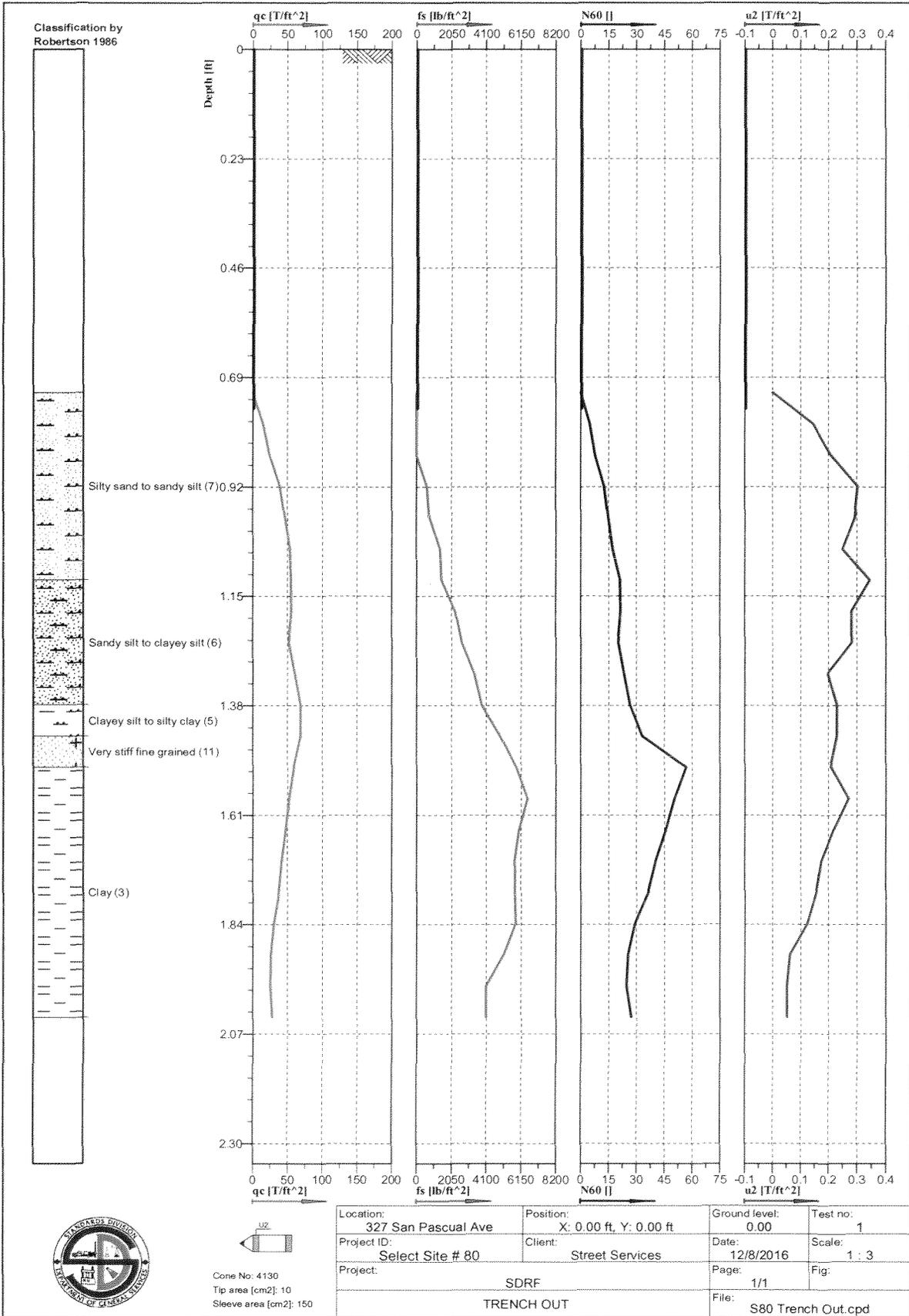
Lab No.: 17-741-259



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Location: 3327 San Pascual Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 80	Client: Street Services	Date: 12/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig:
TRENCH IN		File: S80 Trench In.cpd	

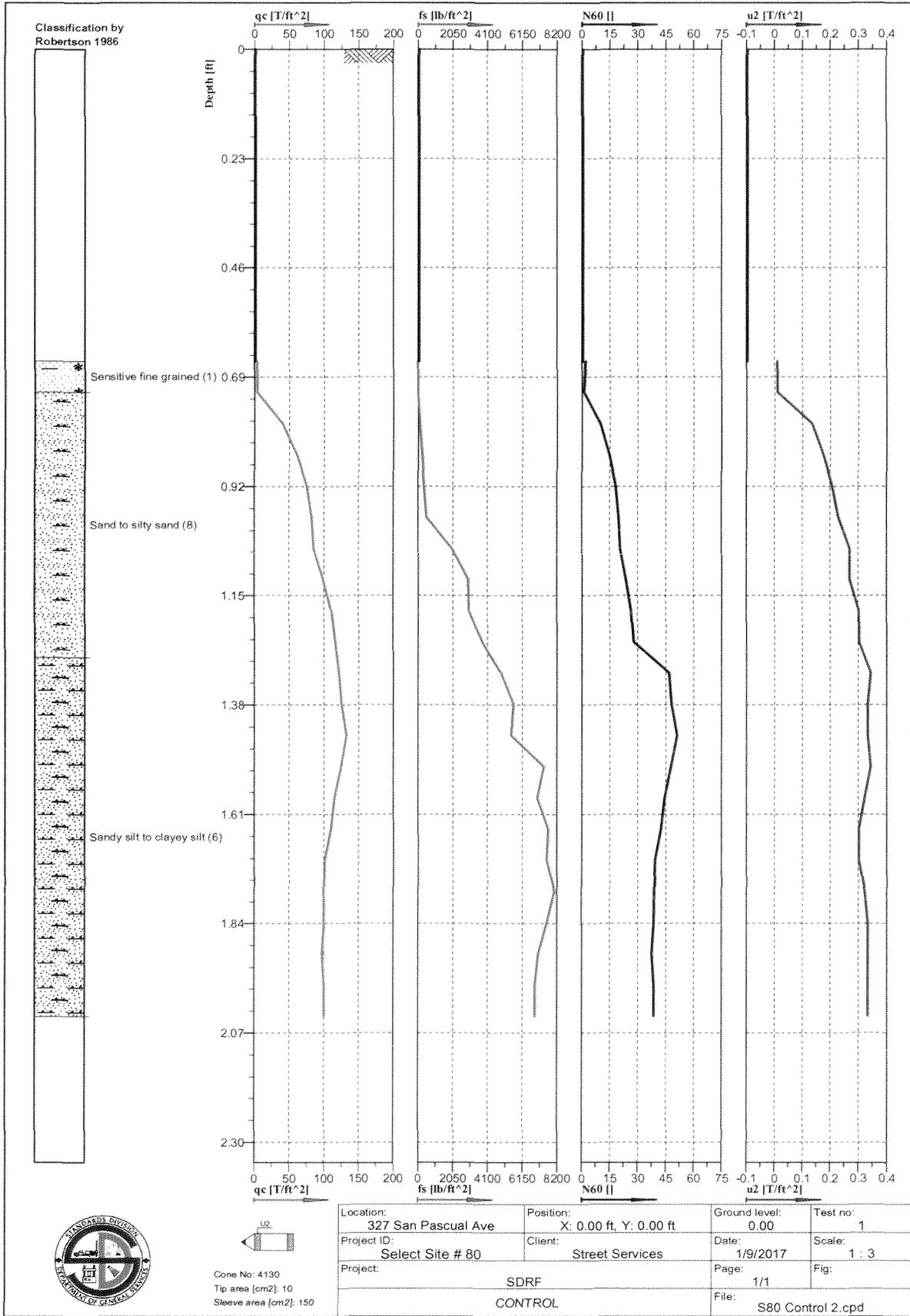
Lab No.: 17-741-260



Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

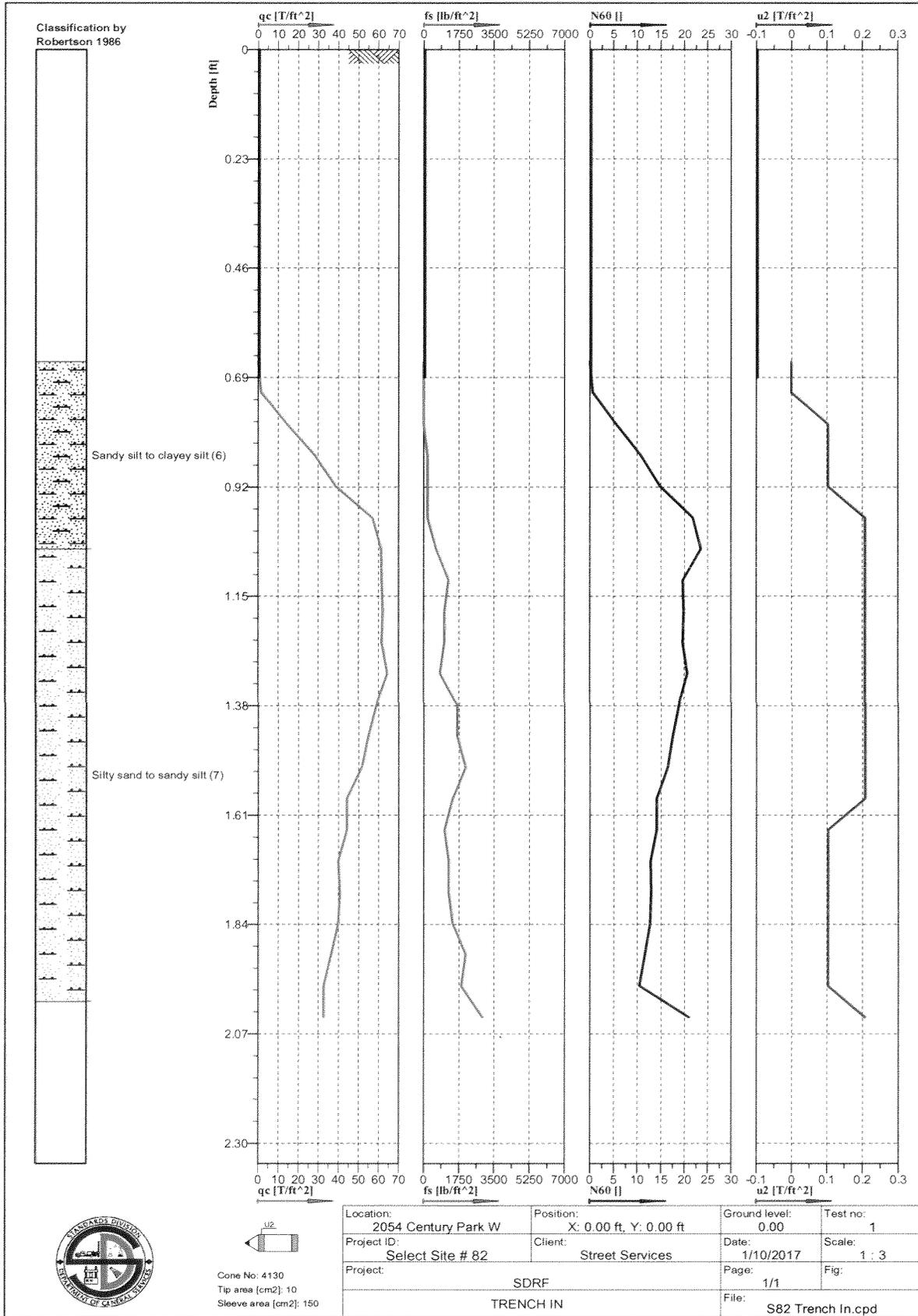
Location: 327 San Pascual Ave	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: 1
Project ID: Select Site # 80	Client: Street Services	Date: 12/8/2016	Scale: 1 : 3
Project: SDRF		Page: 1/1	Fig: 1 : 3
TRENCH OUT		File: S80 Trench Out.cpd	

Lab No.: 17-741-261

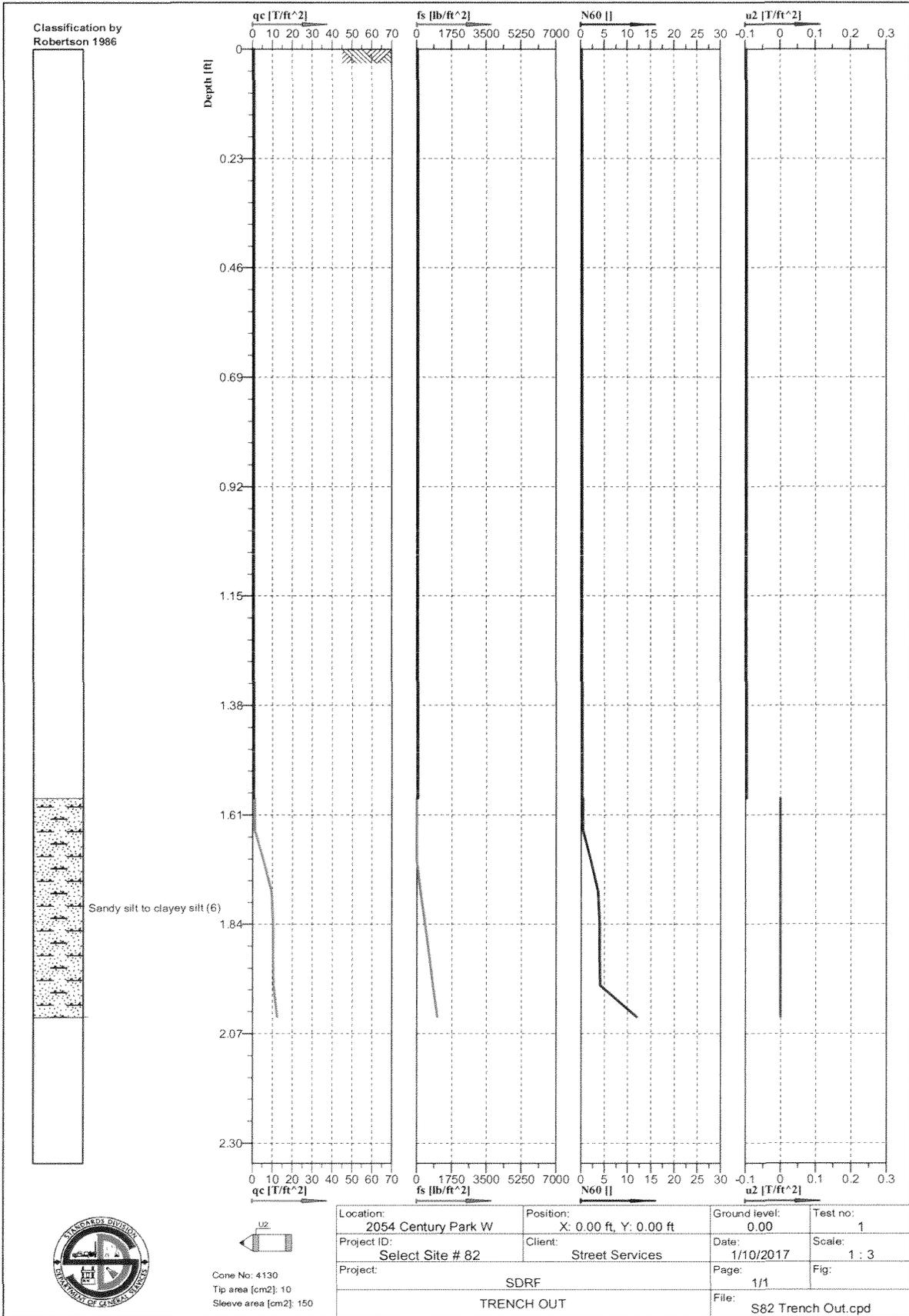


Cone No: 4130
 Tip area [cm²]: 10
 Sleeve area [cm²]: 150

Lab No.: 17-741-262



Lab No.: 17-741-263



Lab No.: 17-741-264

