ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2783	1314B	COOK	160	124
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. S6
S7 SHEETS

CONTRACT 60293

STS Consultants Ltd.
STRUCTURE BORING LOG

JOB NO. 31045 — Page 1 of 2 — Date 5/4/00

ROUTE I-90 DESCRIPTION Proposed Retaining Wall; Nagle Ave. & Kennedy Expy.

SECT. 1314 B STRUCT. NO. 016-0708 DRILLED BY DeRubeis-STS

COUNTY Cook LOCATION 17.0m E. of E. curb of Nagle; 1.8m S. of N. curb of Gregory

Boring No. B-14
Station 4+526
Offset 5.00m Left
Surface Elev. 189.82 m

Surface Water Elev. ____
Groundwater Elev.: when drilling Dry; at Completion ____; after ____ Hrs. ____

Elev.	DEPTH	BLOWS	Qu kPa	W %
189.52		Driller notes asphalt.		
		7 7 7		12.5
		5 4 5		15.1
	-1.5	2 4 6	575B	23.4
187.72		Silty clay, trace gravel, sand and shale - gray - very stiff to hard (A-6)		
		6 10 12	431P	15.5 594B
	-3.0	8 9 14	431P	16.6 613B
		9 13 14	431P	16.2 268B
	-4.5	7 10 15	287P	17.2 266B
		5 8 9	263P	21.0 240B
	-6.0	5 7 9	192P	21.3 220B
		6 7 10	192P	20.9 240B
	-7.5			

Elev.	DEPTH	BLOWS	Qu kPa	W %
		Silty clay, trace gravel, sand and shale - gray - very stiff to hard (A-6)		
		6 10 Bounce	240P	20.0
		5 8 12	216P	17.3 287B
	-9.0	6 9 13	240P	19.8 412B
	-10.5	7 11 14	335P	21.1 383B
	-12.0	9 11 13	287P	13.7 326B
	-13.5	6 8 11	240P	13.5 326B
	-15.0			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

STS Consultants Ltd.
STRUCTURE BORING LOG

JOB NO. 31045 — Page 2 of 2 — Date 5/4/00

STRUCTURE NO. 016-0708
ROUTE I-90
SECTION 1314 B
COUNTY Cook

Boring No. B-14
Station 4+526
Offset 5.00m Left
Elevation 174.82 m

Elev.	DEPTH	BLOWS	Qu kPa	W %
		Silty clay, trace gravel, sand and shale - gray - very stiff to hard (A-6) Sample 17: Possible cave-in.		
		7 10 14		25.2
	-18.5	9 13 15	359P	21.9 307B
171.82	-18.0	Clayey silt, trace gravel and sand - gray - very dense (A-4)		
		35 25 25		10.9
171.37		End of Boring. Borehole grouted upon completion. Casing used: 3.05 m of 102 mm Automatic-Mobile Hammer used for Standard Penetration Tests.		
	-19.5			
	-21.0			
	-22.5			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

STS Consultants Ltd.
STRUCTURE BORING LOG

JOB NO. 31045 — Page 1 of 2 — Date 5/4/00

ROUTE I-90 DESCRIPTION Proposed Retaining Wall; Nagle Ave. & Kennedy Expy.

SECT. 1314 B STRUCT. NO. 016-0708 DRILLED BY DeRubeis-STS

COUNTY Cook LOCATION 32.0m W. of W. curb of Nagle; 1.8m S. of N. curb of Gregory

Boring No. B-15
Station 4+541
Offset 5.00m Left
Surface Elev. 189.73 m

Surface Water Elev. ____
Groundwater Elev.: when drilling Dry; at Completion ____; after ____ Hrs. ____

Elev.	DEPTH	BLOWS	Qu kPa	W %
189.43		Driller notes asphalt.		
		9 10 8		10
188.98		Fill: Gravel, little clay, trace silt and sand - gray - medium dense - moist (A-1)		
		9 10 12		10.1
188.23	-1.5	Fill: Fine to medium sand, trace to little clay, trace gravel - brown - medium dense - moist (A-3)		
		3 6 8	240P	15.5 431B
		6 10 13	383P	15.8 575B
	-3.0	23 16 17	431P	20.1 565B
		8 12 16	383P	16.8 431B
	-4.5	9 14 16	335P	20.8 412B
		6 11 12	335P	17.8 307B
	-6.0	10 8 8	287P	11 326B
		7 10 14	287P	18.4 201B
182.23	-7.5			

Elev.	DEPTH	BLOWS	Qu kPa	W %
		Silty clay, trace gravel, sand and shale - gray - stiff (A-6)		
		5 8 13	144P	14.8 307B
181.48		Silty clay, trace gravel, sand and shale - gray - very stiff (A-6)		
		6 9 12	240P	17.2 240B
	-9.0	7 11 15	216P	19.9 431B
	-10.5	6 12 18	287P	20.5 266B
	-12.0	7 9 11	216P	17.5 345B
	-13.5	8 11 18	335P	17.5 345B
	-15.0			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Meters

REVISIONS	
NAME	DATE

COLLINS ENGINEERS INC.
123 N. WACKER DR., SUITE 300
CHICAGO, IL 60606
(312) 704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90 (I-90)
AT NAGLE AVENUE
F.A.U. RTE. 2783 SEC 1314B
COOK COUNTY STATION 4+545.264
STRUCTURE NO. 016-W779

SOIL BORINGS-I

DRAWN BY KAC
CHECKED BY ERB/DGS DATE: DEC. 2004

27240139