F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	70HB-R-1	COOK	283	211
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62897

Wang Engineering, INC.
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Telephone: 630 953-9928
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BORING LOG B-01

WEI Job No.: 272-06-01

Client: STV Incorporated
Project: IL 68 Bridges over US 14 and UPRR
Location: Sec 8; Palatine Twp.; Cook County

Datum: NGVD
Elevation: 269.33 m
North: 607030.44 m
East: 319855.00 m
Station: 10+025.424
Offset: 15.456 LT

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	269.0	Dark brown SANDY LOAM —TOPSOIL—						
	268.0	Very stiff to hard, brown SILTY CLAY —FILL—		X	1	3 4 7	431 P	14
				X	2	3 4 6	346 B	15
				X	3	3 4 6	487 B	18
				X	4	3 5 6	494 B	11
				X	5	3 4 5	228 B	18
				X	6	3 3 7	142 B	16
				X	7	3 4 9	343 B	15
				X	8	3 4 8	361 B	20
				X	9	3 4 5	199 B	21
				X	10	3 3 5	198 B	23
	266.0	Stiff to hard, gray SILTY CLAY						

LL=29%, PL=17%
A-6 (9)
GRAVEL=4%
SAND=6.6%
SILT=53.3%
CLAY=34.2%

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	263.3	Very stiff, gray SANDY CLAY, with gravel						
	262.3	Medium stiff to hard, gray SILTY CLAY		X	11	3 3 5	125 B	20
				X	12	3 3 7	196 B	21
				X	13	3 3 5	196 B	13
				X	14	3 4 5	275 B	17
				X	15	4 4 6	157 B	21
				X	16	4 6 8	267 B	21
				X	17	6 6 9	354 B	19
		Interbedded sand and silt lenses		X	18	3 4 10	149 B	21
				X	19	3 5 7	79 B	15
				X	20	4 9 11	526 B	13

GENERAL NOTES

Begin Drilling: 12-21-2005 Complete Drilling: 12-21-2005
Drilling Contractor: WEI Drill Rig: D120
Driller: GSF Logger: W. Wang Checked by: B. Fugiel
Drilling Method: 3.25-in HSA; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 13.72 m
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Page 1 of 2

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BORING LOG B-01

WEI Job No.: 272-06-01

Client: STV Incorporated
Project: IL 68 Bridges over US 14 and UPRR
Location: Sec 8; Palatine Twp.; Cook County

Datum: NGVD
Elevation: 269.33 m
North: 607030.44 m
East: 319855.00 m
Station: 10+025.424
Offset: 15.456 LT

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
				X	21	1 3 3	209 B	21
				X	22	3 3 6	275 B	19
				X	23	4 4 7	236 B	21
				X	24	4 6 8	269 B	16
				X	25	3 4 10	349 B	21
				X	26	3 3 9	349 B	20

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	N Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	258.0	Stiff, gray SILTY CLAY LOAM						
	256.1	Hard, gray SILTY CLAY		X	27	4 16 13	157 B	8
	243.4	Boring terminated at 25.91 m		X	28	5 11 15	424 B	17

GENERAL NOTES

Begin Drilling: 12-21-2005 Complete Drilling: 12-21-2005
Drilling Contractor: WEI Drill Rig: D120
Driller: GSF Logger: W. Wang Checked by: B. Fugiel
Drilling Method: 3.25-in HSA; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 13.72 m
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG B-03

WEI Job No.: 272-06-01

Client: STV Incorporated
Project: IL 68 Bridges over US 14 and UPRR
Location: Sec 8; Palatine Twp.; Cook County

Datum: NGVD
Elevation: 268.19 m
North: 607030.44 m
East: 319850.00 m
Station: 10+025.327
Offset: 14.67 RT

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	267.2	Dark brown SANDY LOAM —TOPSOIL—						
	266.2	Very stiff, brown SANDY CLAY LOAM, with asphalt chips —FILL—		X	1	3 3 4	263 P	10
	262.7	Stiff to very stiff, brown, black, and gray SILTY CLAY —FILL—		X	2	3 3 5	236 B	28
				X	3	4 5 5	236 B	29
				X	4	3 3 3	97 B	25
				X	5	3 3 7	172 B	22
				X	6	5 6 7	346 B	10
				X	7	3 4 7	275 B	16
				X	8	4 4 8	260 B	17
				X	9	5 6 12	456 B	19
				X	10	3 5 6	172 B	21
	253.5	Stiff to hard, gray SILTY CLAY						

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
				X	11	3 5 7	290 B	21
				X	12	3 5 6	243 B	21
				X	13	5 8 7	267 B	20
				X	14	4 5 7	236 B	16
				X	15	4 6 9	196 B	12
				X	16	4 5 6	236 B	19
				X	17	4 6 8	236 B	21
				X	18	4 8 12	385 B	20
				X	19	4 10 13	471 B	16
				X	20	4 8 9	196 B	19

GENERAL NOTES

Begin Drilling: 12-20-2005 Complete Drilling: 12-20-2005
Drilling Contractor: WEI Drill Rig: D120
Driller: GSF Logger: W. Wang Checked by: B. Fugiel
Drilling Method: 3.25-in HSA; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ DRY
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Page 2 of 2

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BORING LOG B-03

WEI Job No.: 272-06-01

Client: STV Incorporated
Project: IL 68 Bridges over US 14 and UPRR
Location: Sec 8; Palatine Twp.; Cook County

Datum: NGVD
Elevation: 268.19 m
North: 607978.59 m
East: 319880.28 m
Station: 10+048.327
Offset: 14.67 RT

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
				X	21	3 5 6	354 B	21
				X	22	4 6 10	290 B	18
				X	23	5 7 7	354 B	21
				X	24	4 6 8	354 B	21
				X	25	4 6 8	307 B	20
				X	26	5 7 11	275 B	22

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	N Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	254.4	Boring terminated at 24.38 m		X	27	5 6 9	275 B	22

GENERAL NOTES

Begin Drilling: 12-20-2005 Complete Drilling: 12-20-2005
Drilling Contractor: WEI Drill Rig: D120
Driller: GSF Logger: W. Wang Checked by: B. Fugiel
Drilling Method: 3.25-in HSA; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ DRY
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Page 1 of 2

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BORING LOG B-04

WEI Job No.: 272-06-01

Client: STV Incorporated
Project: IL 68 Bridges over US 14 and UPRR
Location: Sec 8; Palatine Twp.; Cook County

Datum: NGVD
Elevation: 269.30 m
North: 608997.78 m
East: 319776.30 m
Station: 9+950.369
Offset: 24.991 LT

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	267.8	4-inch thick, dark brown SANDY LOAM —TOPSOIL—						
	266.8	Very stiff to hard, brown and gray SILTY CLAY —FILL—		X	1	5 7 7	236 B	15
				X	2	7 7 9	511 B	12
				X	3	4 4 7	236 B	17
				X	4	8 9 12	430 B	16
				X	5	4 7 9	471 B	16
	263.1	Very stiff, gray CLAY LOAM		X	6	4 6 5	220 B	15
				X	7	4 6 9	236 B	14
	253.8	Stiff to hard, gray SILTY CLAY		X	8	2 4 4	118 B	13
				X	9	3 4 6	189 B	10
				X	10	3 5 8	181 B	16

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	N Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
				X	11	4 6 6	471 B	20
				X	12	3 3 6	196 B	21
				X	13	3 4 5	149 B	20
				X	14	3 4 6	181 B	20
				X	15	3 4 5	172 B	22
				X	16	3 5 7	157 B	19
				X	17	4 6 9	228 B	12
				X	18	4 7 8	220 B	18
				X	19	5 9 19	432 B	17
				X	20	5 6 8	275 B	20

GENERAL NOTES

Begin Drilling: 12-19-2005 Complete Drilling: 12-19-2005
Drilling Contractor: WEI Drill Rig: D120
Driller: GSF Logger: W. Wang Checked by: B. Fugiel
Drilling Method: 3.25-in HSA; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ DRY
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG B-04

WEI Job No.: 272-06-01

Client: STV Incorporated
Project: IL 68 Bridges over US 14 and UPRR
Location: Sec 8; Palatine Twp.; Cook County

Datum: NGVD
Elevation: 269.30 m
North: 608997.78 m
East: 319776.30 m
Station: 9+950.369
Offset: 24.991 LT

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
				X	21	3 5 6	236 B	19
				X	22	3 5 9	228 B	20
				X	23	4 5 11	432 B	14
				X	24	5 8 10	290 B	29
				X	25	6 8 10	196 B	11
				X	26	3 6 10	275 B	21

Profile	Elevation (m)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	N Values (blows/150 mm)	Qu (kPa)	Moisture Content (%)
	254.4	Boring terminated at 26.91 m		X	27	6 8 10	354 B	21
				X	28	6 8 11	377 B	22

GENERAL NOTES

Begin Drilling: 12-19-2005 Complete Drilling: 12-19-2005
Drilling Contractor: WEI Drill Rig: D120
Driller: GSF Logger: W. Wang Checked by: B. Fugiel
Drilling Method: 3.25-in HSA; Boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ DRY
At Completion of Drilling: ▼ DRY
Time After Drilling: NA
Depth to Water: ▼ NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

NOTE:

For 1974 Soil Borings, see existing bridge plans for SN 016-2410.

SHT. S-26 OF S-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 68 OVER US ROUTE 14
F.A.P. ROUTE 343 SECTION 70HB-R-1
COOK COUNTY STATION 10+001.778
STRUCTURE NO. 016-2861

BORING LOGS

DESIGNED: BTO DRAWN: BTO
DATE: 10/06 CHECKED: JAN CHECKED: JAN

...\Acr\016-2861-(Sh_LOG01) cgn: 10/12/2006 2:37:51 PM