Boring #'s

	Alignment	Station	Offset	Depth
(3)	L	1007+00	160LT	15' or bottom of alluvium, whichever is greater
(2)	L	1036+00	100LT	to an appropriate depth for a culvert investigation
(5)	L	1036+00	100RT	to an appropriate depth for a culvert investigation
~~( )~~	~~L~~	~~1057+00~~	~~CL~~	~~to an appropriate depth for a structure investigation~~
(8)	L	1156+00	CL	~~30'~~ or to auger refusal whichever is less
(6)	RPC33	9+15	CL	30' or to auger refusal whichever is less
(7)	SR3 -	19+30	CL	30' or to auger refusal whichever is less
(4)	SRD1	91+10	CL	15' or bottom of alluvium, whichever is greater
(1)	Y3REV	8+70	CL	15' or bottom of alluvium, whichever is greater

40'

Updated 11/08

* Stations listed above are approximate only. Northings + Eastings listed on Field Logs are accurate. Exact Stations (along w/ N + E) will be included on Final Logs.

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER: 34156.1.1	ID: I2304 AD	CO: Davidson	GEO: JKS	GROUND WATER	0 HOUR / 24 HOUR
SITE DESC: I85 from North of NC150 to US 29-52-70/I85 Bus. (DB)				Depth to WATER	Dry / 1.0
BORING NUMBER: 1	STA	OFFSET FT	ALIGNMENT: Y3 Rev	Depth to BTTM	
ELEVATION FT	TOTAL DEPTH: 14.2 FT	NORTH: 732631.12	EAST: 1599212.74	DATE mm/dd	
DRILL MACHINE: CME550X	DRILL EQMT NUMBER	DRILL METHOD: Hollow Stems (HS)		HAMMER TYPE: Auto	
START DATE	COMP DATE	SURFACE WTR DEPTH — FT	DEPTH TO ROCK — FT	DRILLER: MLS	

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
3.3	1	3	3		SS1	M	Alluv.	Gray Silty Clay (SEDS) to 5'
8.3	13	19	24		SS2	M	RES	Brn./Gray/White Sdy Silt to 13'
13.3	31	69/.4			—	D	WR	SWR

NOTES

DECK TO DATUM DISTANCE FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH FT

RED LINE

SIGNATURE DATE

NOTES

Form GEU-001e Revised 2/6/2007

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER 34156.1.1	ID I2304AD	CO Davidson	GEO JKS	GROUND WATER	0 HOUR / 24 HOUR
SITE DESC I85 from North of NC 150 to US 29/52/70 I85 Bus. (DB)				Depth to WATER	4.0 / 2.3
BORING NUMBER 2	STA	OFFSET FT	ALIGN-MENT -L-	Depth to BTTM	
ELEVATION FT	TOTAL DEPTH 19.5 FT	NORTH 730388.42	EAST 1598585.10	DATE mm/dd	
DRILL MACHINE CME550X	DRILL EQMT NUMBER	DRILL METHOD HSA		HAMMER TYPE Auto	
START DATE	COMP DATE	SURFACE WTR DEPTH — FT	DEPTH TO ROCK — FT	DRILLER CLS	

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
3.6	0	1	2		SS 3	M	Alluv.	Gray Silty Clay w/ Wood
8.6	1	1	2		SS 4	M/W	Alluv.	GRAY Sdy Clay
13.6	0	0	1		SS 5	SAT	Alluv.	GRAY Silty Sand to 17.3' stiffer @ 17.3', WR @ 19.1'
18.6	11	89/.4			—		WR	SWR

NOTES

DECK TO DATUM DISTANCE FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH FT

RED LINE

SIGNATURE DATE

NOTES

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER: 34156.1.1	ID: I 2304AD	CO: Davidson	GEO: JKS
SITE DESC: I 85 from N of NC 150 to US 29/52/70 I85 Bus. (DB)			
BORING NUMBER: 3	STA:	OFFSET: FT	ALIGNMENT: -L-
ELEVATION: FT	TOTAL DEPTH: 19.5 FT	NORTH: 728459.85	EAST: 1596458.96
DRILL MACHINE: CME550X	DRILL EQMT NUMBER:	DRILL METHOD: HSA	HAMMER TYPE: Auto
START DATE:	COMP DATE:	SURFACE WTR DEPTH: — FT	DEPTH TO ROCK: — FT
			DRILLER: MLS

GROUND WATER	0 HOUR	24 HOUR
Depth to WATER	7.0	3.3
Depth to BTTM		
DATE mm/dd		

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME [w/ color, density/consistency, texture, plasticity, organics, other])
3	0	1	2		S6	M	Alluv.	Gray Silty Clay Stiffer @ 7.9
8	6	4	2		SS7	M	RES	Brn Clayey Sand
13	0	2	2		SS8	M/W	RES	Brn. Clayey Sand
18	2	2	2		SS9		RES	Grn/org./Blk Sandy Silt

NOTES

DECK TO DATUM DISTANCE FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH FT

RED LINE

SIGNATURE DATE

NOTES

Form GEU-001e Revised 2/6/2007

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER 34156.1.1	ID I 2304 AD	CO Davidson	GEO JKS	GROUND WATER	0 HOUR / 24 HOUR
SITE DESC I85 from N of NC150 to US29-52-70/I85 Bus. (OB)				Depth to WATER	Dry / Dry
BORING NUMBER 4	STA	OFFSET FT	ALIGN-MENT SRD 1	Depth to BTTM	
ELEVATION FT	TOTAL DEPTH 14.6 FT	NORTH 729129.76	EAST 1597765.67	DATE mm/dd	
DRILL MACHINE CME550X	DRILL EQMT NUMBER	DRILL METHOD HSA		HAMMER TYPE Auto	
START DATE	COMP DATE	SURFACE WTR DEPTH — FT	DEPTH TO ROCK — FT	DRILLER CLS	

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
3.1	4	8	9		SS10	M	RES	Org./Wht./Brn. Sandy SiLt
8.1	5	9	13		SS11	M		Wht./Pink/Gray Silty SD
13.1	13	12	16		SS12	M		Blk./Brn. Mic. Silty SD

NOTES

DECK TO DATUM DISTANCE FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH FT

RED LINE

SIGNATURE DATE

NOTES

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER 34156.1.1	ID I2304 AD	CO Davidson	GEO JKS
SITE DESC I85 from N of NC150 to US 29-52-70/I85 Bus. (DB)			
BORING NUMBER 5	STA	OFFSET FT	ALIGNMENT -L-
ELEVATION FT	TOTAL DEPTH 25.3 FT	NORTH 730281.37	EAST 1598714.07
DRILL MACHINE CME550X	DRILL EQMT NUMBER	DRILL METHOD HSA	HAMMER TYPE Auto
START DATE	COMP DATE	SURFACE WTR DEPTH — FT	DEPTH TO ROCK — FT
			DRILLER MLS

GROUND WATER	0 HOUR	24 HOUR
Depth to WATER	2.7'	2.7'
Depth to BTTM		
DATE mm/dd		

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
3.8	1	2	3		SS 13		Alluv.	Gray Silty Clay
8.8	4	6	8		SS 14		Alluv.	Gray Sandy Clay
13.8	1	2	1		SS 15		Alluv	Gray/Wht. Sandy Gravel Alluv. to 17.8'
18.8	6	27	21		NR		RES	No Rec., Rk in Spoon
23.8	24	24	50		SS 16		RES	Tan/White Silty SD

NOTES

NR = No Recovery in Spoon

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

RED LINE

SIGNATURE _____ DATE _____

NOTES _____

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER 34156.1.1	ID I 2304 AD	CO Davidson	GEO JKS	GROUND WATER	0 HOUR / 24 HOUR
SITE DESC I85 from N of NC150 to US29-52-70/I85 Bus. (DB)				Depth to WATER	Dry / Dry
BORING NUMBER 6	STA	OFFSET FT	ALIGNMENT RPC 33	Depth to BTTM	
ELEVATION FT	TOTAL DEPTH 29.9 FT	NORTH 731068.32	EAST 1599649.08	DATE mm/dd	
DRILL MACHINE CME 550X	DRILL EQMT NUMBER	DRILL METHOD HSA		HAMMER TYPE Auto	
START DATE	COMP DATE	SURFACE WTR DEPTH — FT	DEPTH TO ROCK — FT	DRILLER MLS	

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
3.4	5	7	9		SS17	M	RES	Red/Brn. Mic. Silty Clay
8.4	4	4	4		SS18	M		Tan V. Mic. Clay F. Sand
13.4	2	3	4		"	—		AS SS-18
18.4	3	4	5		SS19	M		Tan/Wht. Mic. Silty F. Sand
23.4	4	6	8		—	—		as SS-19
28.4	3	4	5		—	—		as SS-19

NOTES

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

RED LINE

SIGNATURE _____ DATE _____

NOTES

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER 34156.1.1	ID I2304AD	CO Davidson	GEO JRS	GROUND WATER	0 HOUR / 24 HOUR
SITE DESC I85 from N of NC150 to US 29-52-70/I85 Bus. (DB)				Depth to WATER	Dry / Dry
BORING NUMBER 7	STA	OFFSET FT	ALIGNMENT SR3	Depth to BTTM	
ELEVATION FT	TOTAL DEPTH 30.4 FT	NORTH 735747.44	EAST 1603830.15	DATE mm/dd	
DRILL MACHINE CME550X	DRILL EQMT NUMBER	DRILL METHOD HSA		HAMMER TYPE Auto	
START DATE	COMP DATE	SURFACE WTR DEPTH ___ FT	DEPTH TO ROCK ___ FT	DRILLER MLS	

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
3.9	5	10	12		SS20	M	RES	Red/Brn. Silty Clay
8.9	5	6	7		SS 21	M		Tan Mic. Clayey Silt
10								
13.9	4	6	6		—			AS SS-21
18.9	4	4	6		SS 22	M		Tan Mic. Silty F. Sand
20								
23.9	4	5	6		—			AS SS-22
28.9	4	4	7		SS 23	M		Tan/Gray Mic. F. Sand
30							↓	
40								
50								
60								
70								

NOTES _____

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

RED LINE

SIGNATURE _____ DATE _____

NOTES _____

NCDOT GEOTECHNICAL ENGINEERING UNIT

FIELD BORELOG (ENGLISH)

SHEET _____ OF _____

PROJECT NUMBER	34156.1.1	ID	I2304AD	CO	Davidson
GEO	JKS				
SITE DESC	I 85 from N of NC150 to US 29-52-70/I 85 Bus. (DB)				
BORING NUMBER	8	STA		OFFSET FT	
ALIGNMENT	-L-				
ELEVATION FT		TOTAL DEPTH	45.7 FT	NORTH	738506.16
EAST	1607307.08				
DRILL MACHINE	CME550X	DRILL EQMT NUMBER		DRILL METHOD	HSA
HAMMER TYPE	Auto				
START DATE		COMP DATE		SURFACE WTR DEPTH	— FT
DEPTH TO ROCK	— FT	DRILLER	MLS		

GROUND WATER	0 HOUR	24 HOUR
Depth to WATER	35.1	24.1
Depth to BTTM		
DATE mm/dd		

DEPTH (ft)	BLOW COUNT 0.5 ft	0.5 ft	0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other))
4.2	2	2	4		SS24	M	Rdy W	Fill to 9.2' Red/Brn Silty Clay
9.2	1	2	3		SS25	M	RES	Tan Clayey Silt
14.2	2	2	3		—			as SS25
19.2	2	2	3		SS26	M		Brn./Org. Mic. Clayey Silt
24.2	2	2	4		—	M/W		as SS-26
29.2	2	3	4		—			as SS-26
34.2	5	7	10		SS27	M/W		Brn./Gray/Wht. Clayey Silt
39.2	3	7	8					as SS-27
44.2	2	4	6		SS28	M/W		Olive/Wht. Silty Clay
50								
60								
70								

NOTES

DECK TO DATUM DISTANCE FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH FT

RED LINE

SIGNATURE DATE

NOTES

1007+ (3)

(3.0)	(-,1,2)	NR GRY SND SLT CLY	SFCS (SS-6)	M
(8.0)	(6,4,2)	STIFFER 7.9 GRY/BRN CLY SND	(SS-7)	M
(13.0)	(-,2,2)	GRY/BRN CLY SND	(SS-8)	M/W
(18.0)	(2,2,2)	GRN/GRY/BRN CLY SND SLT	(SS-9)	

N 728459.85
E 1596458.96

Ø HR - 7.0
24 HR - 3.3

N 730388.42
E 1596585.10

1036 FT CLY INV (2)

(3.6)	(-,1,2)	BRN/GRY SLT CLY (ORG)	SFCS (SS-3)	M
(8.6)	(1,1,2)	GRY SLT SND CLY	WOOD (SS-4)	M/W
(13.6)	(-,-1)	GRY SLT SND	(SS-5)	D
(18.6)	(11, 39/4,-)	STIFFER 17.3 SWR 19.1	RES 17.5 SWR 19.1	

Ø HR - 4.Ø
24 HR - 2.3

V-3 REV (1)

(3.3)	(1,3,3)	GRY SND SLT CLY	SFCS (SS-1)	M
(9.3)	(13,19,24)	STIFFER 50 BRN/GRY/WHT CLY SND SLT	(SS-2)	M
(13.3)	(31, 69/4-)	SWR BRN/GRY CLY SLT SND	RES 5.0	D

N 732631.12
E 1599212.74

ØHR - DRY
24 HR - 1.Ø

N 731068.32
E 1599649.08

RMP C 33 (6) RTD

(3.4)	(5,7,9)	RED/BRN MIC SND SLT CLY (SS-17) M
(8.4)	(4,4,4)	TAN/BRN V. MIC SLTY F SND (SS-18) M
(13.4)	(2,3,4)	" " " "
(18.4)	(3,4,5)	TAN/BRN/WHT MIC SLTY F SND (SS-19) M
(23.4)	(4,6,8)	" " "
(28.4)	(3,4,5)	" " " "

N 730281.37
E 1598714.07

0 HR - DRY
24 HR - DRY

1036 RT (5) SFDS

(3.8)	(1,2,3)	BRN/GRY SND SLT CLY (SS-13) M
(8.8)	(4,6,8)	BRN/GRY SLT SND SLY (SS-14) M
(13.8)	(1,2,1)	GRY/WHT SND CLAY (SS-15) S
(18.8)	(6,28,21)	STIFF 17.8 RES 17.8 TOP PIK IN SHALE
(23.8)	(24,24,50)	BRN/YELL/WHT CLY SLTY SND (SS-16) VM

0 HR - 8.7'
24 HR - 8.7

SRD 1 (4) RES

(3.1)	(4,8,9)	ORNG/BRN/WHT/BRN/BRN SND SLT (SS-10)
(8.1)	(5,9,13)	WHT/TAN/GRY SLT SND (SS-11) M
(13.1)	(13,12,16)	GRY/BRN/BRN MIC SLT SND (SS-12) M

GRN. LAYER 11.0 - 12.0

N 729129.76
E 1597765.67

0 HR - DRY
24 HR DRY

All units survey feet

N 738506.16
E 1607307.08

(8)

RW FILL

4.2	2,2,4	RED/BRN/GRY SILTY CLAY (SS-24) M
9.2	1,2,3	TAN/YELL CLAY SILT (SS-25) M RES 9.2
14.2	2,2,3	" " "
19.2	2,2,3	BRN/ORG MOTT GRY MIC SILTY CLAY (SS-26) M
24.2	2,2,4	" " " " M/W
29.2	2,3,4	" " " " "
34.2	5,7,10	BRN/GRY MOTT SAND CLAYEY (SS-27) M/W
39.2	3,7,8	" " " "
44.2	2,4,6	ORANGE/GRY MOTT SANDY CLAY (SS-28) M/W

OHR - 35.1
24HR - 24.1

N 735747.44
E 1603830.15 (7)

RES

3.9	5,10,12	RED/BRN FINE SILTY CLAY (SS-20) M
8.9	5,6,7	TAN/BRN/YELL MOTT SAND CLAYEY SILT (SS-21) M
13.9	4,6,6	" " "
18.9	4,4,6	TAN/BRN MIC CLAYEY SILT FINE (SS-22) M
23.9	4,5,6	" " " "
28.9	4,4,7	TAN/GRY MOTT MIC FINE (SS-23) SILTY CLAY W/ SMALL AMOUNT OF GRAVEL

0 HR - DRY
24 HR - DRY