

REFERENCE: BR-0015

PROJECT: 67015

CONTENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN
4 - 13	BORE LOGS
14	SOIL TEST RESULTS

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY DAVIDSON

PROJECT DESCRIPTION BRIDGE NO. 67 AND NO. 68
REPLACEMENTS ON US 29/US 70 NB & SB OVER
SR 1192 (W. 5TH AVENUE)

SITE DESCRIPTION RETAINING WALLS
STA. 24+60.37 (54' RT) -L- TO 28+66.66 (96' LT) -L-
STA. 15+53.00 (34' LT) -YI- TO 17+73.00 (34' LT) -YI-

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0015	1	

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO PERFORM INDEPENDENT SUBSURFACE INVESTIGATIONS AND MAKE INTERPRETATIONS AS NECESSARY TO CONFIRM CONDITIONS ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

NOTES:
1. THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
2. BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

M. FOSTER

J. KARDON

D. KUBINSKI

TRIGON EXPLORATION

INVESTIGATED BY KLEINFELDER, INC


DRAWN BY D. KUBINSKI

CHECKED BY J. FREGOSI

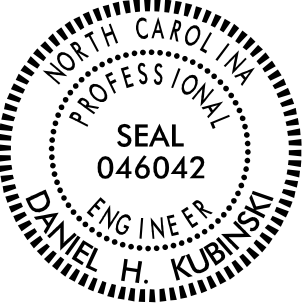
SUBMITTED BY KLEINFELDER, INC.

DATE JUNE 2023

Prepared in the Office of:



422 Gallimore Dairy Road, Suite B
Greensboro, North Carolina 27409
NC Engineering Firm License No. F-1312



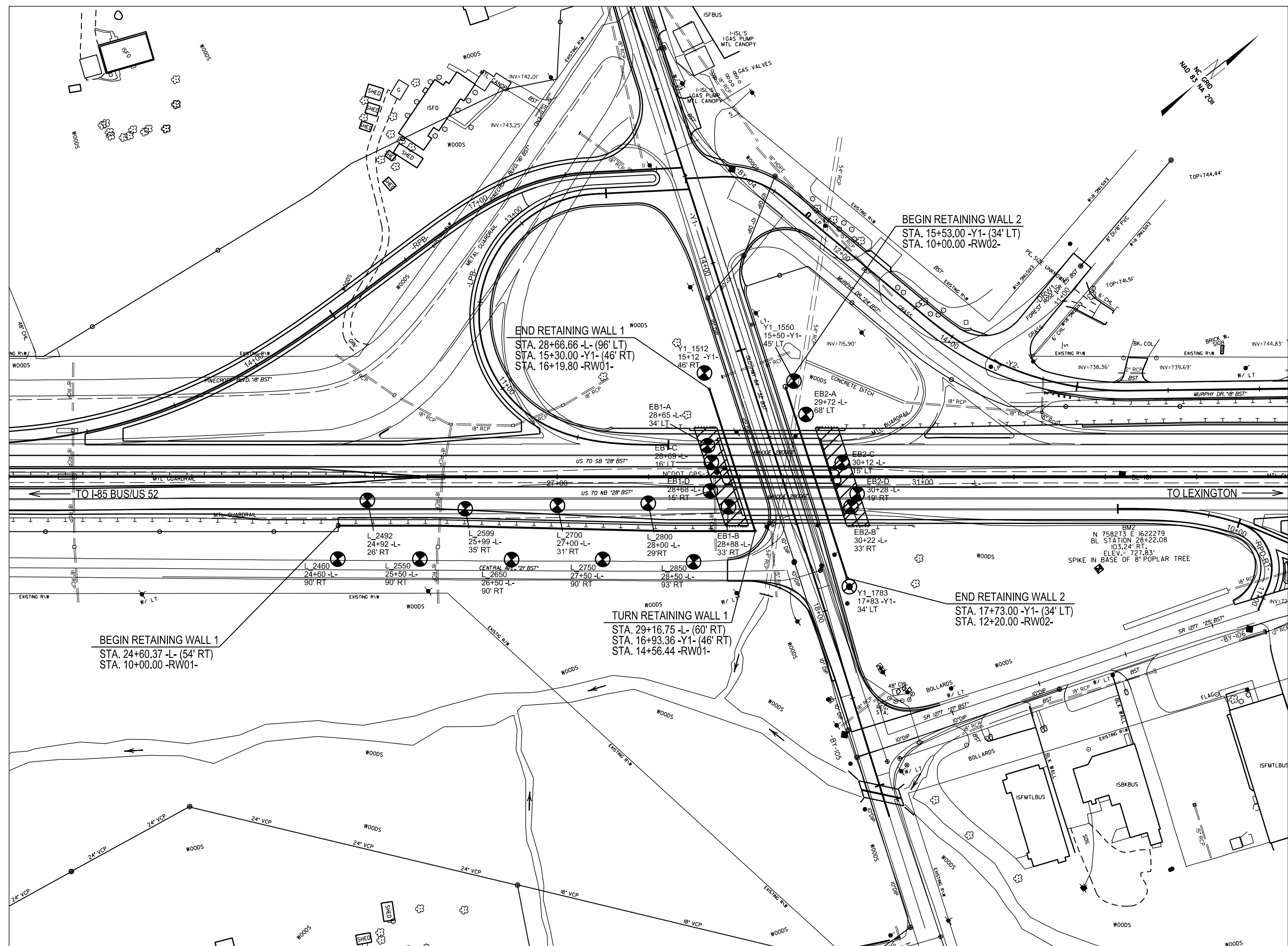
DocuSigned by:
Daniel H. Kubinski06/22/2023

AB2F7FFB796A411

SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



GEOTECHNICAL BORING REPORT

BORE LOG

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST J. Kardon							
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)											GROUND WTR (ft)					
BORING NO. L_2550			STATION 25+50			OFFSET 90 ft RT			ALIGNMENT -L-			0 HR. Dry				
COLLAR ELEV. 718.8 ft			TOTAL DEPTH 15.0 ft			NORTHING 757,692			EASTING 1,621,815			24 HR. FIAD				
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic						
DRILLER R. Toothman			START DATE 05/09/23			COMP. DATE 05/09/23			SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
720																
715	717.8	1.0	5	2	3									718.8	GROUND SURFACE	0.0
	715.3	3.5	2	4	6									717.8	ROADWAY EMBANKMENT Asphalt (0.0 - 0.5 Foot) ABC Stone (0.5 - 1.0 Foot)	1.0
710	710.3	8.5	2	3	3									712.8	Medium Stiff to Stiff, Highly Plastic, Red, Silty CLAY, Trace Mica	6.0
														706.8	RESIDUAL Medium Stiff, Reddish Brown, Clayey SILT, Trace Mica	12.0
705	705.3	13.5	3	5	6									703.8	Stiff, Brown, Coarse to Fine Sandy SILT	15.0
Boring Terminated at Elevation 703.8 ft in RESIDUAL (Sandy SILT)																

WBS 67015.1.1				TIP BR-0015				COUNTY DAVIDSON				GEOLOGIST M. Foster					
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)												GROUND WTR (ft)					
BORING NO. L_2599				STATION 25+99				OFFSET 35 ft RT				ALIGNMENT -L-				0 HR. Dry	
COLLAR ELEV. 735.6 ft				TOTAL DEPTH 25.0 ft				NORTHING 757,765				EASTING 1,621,802				24 HR. FIAD	
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022								DRILL METHOD H.S. Augers				HAMMER TYPE Automatic					
DRILLER R. Toothman				START DATE 05/05/23				COMP. DATE 05/05/23				SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100							
740																	
735	734.6	1.0	3	2	3										735.6 734.9	GROUND SURFACE 0.0 ROADWAY EMBANKMENT 0.7	
	732.0	3.6	2	2	3										733.3	Asphalt and ABC Stone (0.0 - 0.7 Foot) 2.3 Medium Stiff, Highly Plastic, Reddish Brown, Silty CLAY, Trace Mica	
730															728.1	Medium Stiff, Reddish Brown, Fine Sandy SILT, Trace Mica 7.5	
725	727.1	8.5	3	3	5						SS-10	39%				RESIDUAL Medium Stiff, Highly Plastic, Reddish Brown to Reddish Yellow, Silty CLAY	
	722.1	13.5	1	3	4												
720																	
715	717.1	18.5	2	4	4										718.6	Medium Stiff, Reddish Yellow and Light Brownish Gray to Yellowish Brown and Light Brownish Gray, Coarse to Fine Sandy SILT, Trace Mica and Rock Fragments 17.0	
	712.1	23.5	2	2	4										710.6	Boring Terminated at Elevation 710.6 ft in RESIDUAL (Sandy SILT) 25.0	

NC DOT BORE DOUBLE BR0015 GEO_RWAL_GINT.GPJ NC_DOT.GDT 6/15/23

[illegible]

NCDOT BORE DOUBLE BR0015_GEO_RWAL_GINT.GPJ NC_DOT.GDT 6/15/23

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST M. Foster					
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)									GROUND WTR (ft)					
BORING NO. L_2800			STATION 28+00			OFFSET 29 ft RT			ALIGNMENT -L-			0 HR. Dry		
COLLAR ELEV. 733.4 ft			TOTAL DEPTH 35.0 ft			NORTHING 757,927			EASTING 1,621,920			24 HR. FIAD		
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic					
DRILLER R. Toothman			START DATE 05/05/23			COMP. DATE 05/05/23			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
735														
730	729.9	3.5	2	2	3	5						M		733.4 GROUND SURFACE 0.0 731.6 ROADWAY EMBANKMENT 1.8 Asphalt and ABC Stone (0.0 - 1.8 Feet) Medium Stiff, Reddish Brown, Fine Sandy SILT, Little Mica
725	724.9	8.5	2	2	3	5						M		726.6 6.8 Medium Stiff, Moderately Plastic, Reddish Brown and Olive Gray to Reddish Brown to Olive Brown, Silty CLAY, Trace Mica
720	719.9	13.5	2	3	4	7					SS-14	30%		
715	714.9	18.5	2	4	4	8						M		
710	709.9	23.5	2	2	3	5						M		
705	704.9	28.5	1	3	6	9						M		706.4 27.0 ALLUVIAL Stiff, Highly Plastic, Dark Brown and Gray, Silty CLAY
700	699.9	33.5	2	4	5	9						M		701.6 31.8 RESIDUAL Stiff, Light Brownish Gray, Silty CLAY
														698.4 35.0 Boring Terminated at Elevation 698.4 ft in RESIDUAL (Silty CLAY)

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST J. Kardon						
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)									GROUND WTR (ft)						
BORING NO. L_2850			STATION 28+50			OFFSET 93 ft RT			ALIGNMENT -L-			0 HR. 17.0			
COLLAR ELEV. 711.9 ft			TOTAL DEPTH 29.3 ft			NORTHING 757,927			EASTING 1,622,001			24 HR. FIAD			
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic						
DRILLER R. Toothman			START DATE 05/09/23			COMP. DATE 05/09/23			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100		MOI		ELEV. (ft)	DEPTH (ft)
715															
710	710.9	1.0	2	3	3							M		711.9	0.0
	708.4	3.5	2	2	3							M		710.9	1.0
705															
	703.3	8.6	1	1	2							M			
700														700.9	11.0
	698.3	13.6	WOH	1	1							M			
695														694.9	17.0
	693.3	18.6	15	29	31							W			
690															
	688.3	23.6	15	76	24/0.1									687.3	24.6
685															
	683.3	28.6	60	40/0.2										682.6	29.3
														Boring Terminated at Elevation 682.6 ft in WEATHERED ROCK (METAGABBRO)	

[illegible]

NCDOT BORE DOUBLE BR0015_GEO_RWAL_GINT.GPJ NC_DOT.GDT 6/15/23


NCDOT BORE DOUBLE BR0015_GEO_RWAL_GINT.GPJ NC_DOT.GDT 6/15/23

[illegible]

NCDOT BORE DOUBLE BR0015 GEO RWAL GINT.GPJ NC DOT.GDT 6/15/23

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST M. Foster					
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)									GROUND WTR (ft)					
BORING NO. Y1_1512			STATION 15+12			OFFSET 46 ft RT			ALIGNMENT -Y1-			0 HR. Dry		
COLLAR ELEV. 715.1 ft			TOTAL DEPTH 19.9 ft			NORTHING 758,063			EASTING 1,621,845			24 HR. FIAD		
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic					
DRILLER R. Toothman			START DATE 05/10/23			COMP. DATE 05/10/23			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100	MOI			
720														
715	715.1	0.0	2	3	2								715.1 GROUND SURFACE 0.0	
710	711.7	3.4	2	2	2						SS-23	39%	M	712.6 ROADWAY EMBANKMENT 2.5
														711.0 Medium Stiff, Slightly Plastic, Reddish Yellow, Clayey SILT, Trace Mica 4.1
705	706.7	8.4	WOH	1	3							M	ALLUVIAL Medium Stiff to Stiff, Highly Plastic, Dark Gray and Dark Brown to Dark Reddish Brown and Dark Brown, Silty CLAY, Trace Mica and Organic Matter (Topsoil, Wood Fragments)	
700	701.7	13.4	WOH	2	2							W		
	696.7	18.4	5	7	8							Sat.		695.2 Boring Terminated at Elevation 695.2 ft in ALLUVIAL (Silty CLAY) 19.9

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 67015.1.1				TIP BR-0015				COUNTY DAVIDSON				GEOLOGIST M. Foster					
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)												GROUND WTR (ft)					
BORING NO. Y1_1550				STATION 15+50				OFFSET 45 ft LT				ALIGNMENT -Y1-				0 HR. Dry	
COLLAR ELEV. 717.8 ft				TOTAL DEPTH 13.5 ft				NORTHING 758,135				EASTING 1,621,912				24 HR. Dry	
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022								DRILL METHOD H.S. Augers				HAMMER TYPE Automatic					
DRILLER R. Toothman				START DATE 04/18/23				COMP. DATE 04/18/23				SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)		
720																	
715	716.8	1.0												717.8	GROUND SURFACE 0.0		
	714.3	3.5	4	4	3							M		ROADWAY EMBANKMENT Stiff to Medium Stiff, Moderately Plastic, Reddish Brown, Silty CLAY			
710	714.3		3	4	5						SS-24	29%					
	709.3	8.5	2	2	2							M					
705														704.3	13.5		
Boring Terminated at Elevation 704.3 ft in ROADWAY EMBANKMENT (Silty CLAY)																	
NOTE: No Sample taken at 13.5 ft due to potential obstruction on 54" RCP.																	

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST M. Foster					
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)										GROUND WTR (ft)				
BORING NO. EB2-A			STATION 29+72			OFFSET 68 ft LT			ALIGNMENT -L-		0 HR. 18.8			
COLLAR ELEV. 718.8 ft			TOTAL DEPTH 54.1 ft			NORTHING 758,123			EASTING 1,621,949		24 HR. 12.4			
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic				
DRILLER R. Toothman			START DATE 04/18/23			COMP. DATE 04/18/23			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
720														
715	717.8	1.0	2	2	3									718.8 GROUND SURFACE 0.0
	715.0	3.8	2	3	2									ROADWAY EMBANKMENT Medium Stiff, Reddish Brown, Silty CLAY
710	710.0	8.8	1	2	2									712.3 RESIDUAL 6.5
705	705.0	13.8	1	2	4									Medium Stiff, Reddish Brown to Dark Reddish Brown, Silty CLAY
700	700.0	18.8	2	3	4									702.3 16.5
695	695.0	23.8	5	8	9									Medium Stiff to Hard, Reddish Brown, Gray, Brown, and Light Brownish Gray, Coarse to Fine Sandy SILT, Trace Mica
690														
	690.0	28.8	4	7	8									
685	685.0	33.8	3	5	4									
680	680.0	38.8	9	19	34									
675	675.0	43.8	46	54/0.3										677.3 41.5
670	670.0	48.8	65	35/0.2										WEATHERED ROCK Olive Brown, METAGABBRO
665	665.0	53.8	100/0.3											664.7 54.1
														Boring Terminated at Elevation 664.7 ft in Weathered Rock (METAGABBRO)

NCDOT BORE DOUBLE BR0015_GEO_RWAL_GINT.GPJ NC_DOT.GDT 6/15/23

NCDOT BORE DOUBLE BR0015 GEO_RWAL_GINT.GPJ NC DOT.GDT 6/15/23

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST M. Foster					
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)									GROUND WTR (ft)					
BORING NO. EB2-D			STATION 30+28			OFFSET 19 ft RT			ALIGNMENT -L-			0 HR. N/A		
COLLAR ELEV. 733.3 ft			TOTAL DEPTH 64.2 ft			NORTHING 758,114			EASTING 1,622,052			24 HR. 11.2		
DRILL RIG/HAMMER EFF./DATE TRI0055 CME-55 83% 05/09/2022						DRILL METHOD Mud Rotary			HAMMER TYPE Automatic					
DRILLER R. Toothman			START DATE 04/26/23			COMP. DATE 04/26/23			SURFACE WATER DEPTH N/A					
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
735														
730	730.0	3.3	2	3	3	1								733.3 GROUND SURFACE 0.0 732.3 ROADWAY EMBANKMENT 1.0 Asphalt & ABC Stone (0.0 - 1.0 Foot) Medium Stiff, Reddish Brown, Silty CLAY, Trace Mica
725	724.8	8.5	3	3	3	6								
720	720.0	13.3	3	4	4	8								721.4 RESIDUAL 11.9 Medium Stiff to Stiff, Reddish Brown and Yellowish Brown, Silty CLAY, Trace Mica
715	715.0	18.3	3	5	6	11								
710	710.0	23.3	3	3	4	7								711.7 Medium Stiff to Hard, Reddish Yellow, Light Brownish Gray, Brown, and Pale Red, Coarse to Fine Sandy SILT, Trace Mica 21.6
705	705.0	28.3	2	2	3	5								
700	700.0	33.3	6	7	17	24								
695	695.0	38.3	10	8	7	15								
690	690.0	43.3	6	11	15	26								
685	685.0	48.3	10	19	28	47								
680	680.0	53.3	18	27	38	65								
675	675.0	58.3	30	60	40/0.2	100/0.7								
670	670.0	63.3	16	84/0.4		100/0.9								674.0 WEATHERED ROCK 59.3 Olive Gray and Light Brownish Gray, METAGABBRO
														669.1 Boring Terminated at Elevation 669.1 ft in Weathered Rock (METAGABBRO) 64.2

NC DOT BORE DOUBLE BR0015 GEO RDWY_GINT.GPJ NC_DOT.GDT 6/2/23

WBS 67015.1.1			TIP BR-0015			COUNTY DAVIDSON			GEOLOGIST D. Kubinski			
SITE DESCRIPTION Bridge No. 67 and No. 68 Replacements on US 29/US 70 NB & SB over SR 1192 (W. 5th Avenue)									GROUND WTR (ft)			
BORING NO. Y1_1783			STATION 17+83			OFFSET 34 ft LT			ALIGNMENT -Y1-			0 HR. Dry
COLLAR ELEV. 715.2 ft			TOTAL DEPTH 10.3 ft			NORTHING 758,045			EASTING 1,622,127			24 HR. FIAD
DRILL RIG/HAMMER EFF./DATE N/A						DRILL METHOD Hand Auger			HAMMER TYPE N/A			
DRILLER D. Kubinski			START DATE 05/02/23			COMP. DATE 05/02/23			SURFACE WATER DEPTH N/A			
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER INCREMENT			SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
			1.75in	1.75in	1.75in	0	25					
720												
715												
710	714.2	1.0	11	12	12	12			M			715.2 GROUND SURFACE 0.0 RESIDUAL Medium Stiff to Stiff, Olive, Coarse to Fine Sandy SILT, Trace Mica
	713.2	2.0	7	8	13	11						
	712.2	3.0	9	9	12	11						
	711.2	4.0	22	25+		25						
	710.2	5.0	19	23	25	24						
705	709.2	6.0	13	25	25+	25			M			704.9 10.3 Boring Terminated at Elevation 704.9 ft in RESIDUAL (Sandy SILT) NOTE: Conventional dynamic cone penetrometer test performed at 1 foot intervals.
	708.2	7.0	15	25+		25						
	707.2	8.0	25+			25						
	706.2	9.0	24	25+		25						
	705.2	10.0	24	25+		25						

LABORATORY SUMMARY SHEET FOR SOIL SAMPLES

WBS NO. (TIP NO.): 67015.1.1 (BR-0015)
PROJECT ID: 41620
COUNTY: DAVIDSON
DESCRIPTION: BRIDGE NO. 67 AND NO. 68 REPLACEMENTS ON US 29/US 70 NB & SB OVER SR 1192 (W. 5TH AVENUE)

									Atterberg Limits			Gradation Results							
Sample No.	Boring Number	Alignment	Station	Offset	Sample Depth (ft.)	Natural Moisture Content (%)	AASHTO Class.	N-Value (blows/ft)	L.L.	P.L.	P.I.	Retained #4 Sieve	Pass #10 Sieve	Pass #40 Sieve	Pass #200 Sieve	Coarse Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)
SS-9*	L_2460	-L-	24+60	90' RT	1.0 - 2.5	37.1	A-7-5	6	78	45	33	0.0	100.0	97.8	86.5	4.2	13.2	23.4	59.2
SS-10*	L_2599	-L-	25+99	35' RT	8.5 - 10.0	39.4	A-7-5	8	65	34	31	0.0	100.0	99.4	80.3	2.4	25.4	34.6	37.7
SS-11*	L_2650	-L-	26+50	90' RT	1.0 - 2.5	32.1	A-7-5	7	73	35	38	2.0	97.0	94.5	79.0	8.8	16.4	21.4	53.4
SS-12*	L_2700	-L-	27+00	31' RT	3.7 - 5.2	32.5	A-7-5	6	52	30	22	0.0	100.0	90.1	64.0	16.3	25.7	25.6	32.5
SS-13*	L_2750	-L-	27+50	90' RT	1.0 - 2.5	21.7	A-7-5	5	56	31	25	3.0	92.0	88.3	63.3	18.1	24.2	23.0	34.6
SS-14*	L_2800	-L-	28+00	29' RT	13.5 - 15.0	29.7	A-7-5	7	58	34	24	0.0	100.0	96.0	72.4	9.4	23.7	24.9	41.9
SS-23*	Y1_1512	-Y1-	15+12	46' RT	3.4 - 4.1	38.7	A-5	4	50	41	9	0.0	99.0	94.3	66.6	11.8	28.5	25.9	33.8
SS-24*	Y1_1550	-Y1-	15+50	45' LT	3.5 - 5.0	28.6	A-7-5	9	59	35	24	0.0	98.0	94.3	76.3	10.3	15.9	25.7	48.1

*Roadway sample number

Michelle Stadel, P.E.
Lab Manager, NCDOT Certification No.: 111-02-1203

Clifford Blalock
Lab Technician, NCDOT Certification No.: 111-03-1203

Matt Johnson
Lab Technician, NCDOT Certification No.: 111-01-1203