St... Project No. 8.1602101
TIP No. B-4096 WBS Element No. 33454.1.1
Bridge No. 140 over Rich Fork Creek on US 29-70/I-85 Business
Davidson County, North Carolina

SUMMARY OF LABORATORY TEST DATA

						Atterberg Limits			Gradation Results							
Boring Number	Sample Depth (ft.)	Sample No.*	Natural Moisture Content (%)	AASHTO Class (Group Index)	N-Value (blows/ ft.)	L.L.	P.L.	P.I.	Pass #10 Sieve	Pass #40 Sieve	Pass #200 Sieve	Retained #270 Sieve	Coarse Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)
EB1-A	6.0-7.5	SS-1	34.4	A-4 (0)	2	23	NP	NP	95	81	52	54	20	32	37	11
EB1-A	28.5-30.0	SS-2	22.7	A-4 (0)	23	27	NP	NP	99	88	37	73	24	49	25	2
EB1-B	18.5-20.0	SS-3	-	A-1-b (0)	7	12	NP	NP	83	38	9	93	72	20	8	0
EB1-B	28.5-30.0	SS-4	21.2	A-4 (0)	25	27	NP	NP	97	89	40	70	20	49	30	1
EB1-B1	3.5-5.0	SS-5	25.4	A-4 (0)	5	39	31	8	87	67	39	65	30	29	24	17
EB1-B1	13.5-15.0	SS-6	28.5	A-7-5 (5)	8	43	32	11	90	81	55	51	15	31	28	26
EB1-B1	23.5-25.0	SS-7	29.4	A-4 (0)	6	19	NP	NP	100	98	44	65	7	58	30	5
B1-A	3.5-5.0	SS-8	20.6	A-4 (0)	5	18	NP	NP	100	99	57	54	4	49	32	15
B1-A	23.5-25.0	SS-9	19.4	A-4 (0)	33	25	NP	NP	98	93	41	71	12	58	28	2
B1-B	6.0-7.5	SS-10	-	A-2-4 (0)	6	18	NP	NP	100	94	31	73	28	45	17	10
B1-B	23.5-25.0	SS-11	25.9	A-4 (0)	17	25	NP	NP	100	94	43	69	15	54	29	2
B2-A	9.5-11.0	SS-12	36.1	A-4 (0)	11	35	NP	NP	100	96	52	60	9	50	32	9
B2-A	28.5-30.0	SS-13	21.1	A-4 (0)	30	32	NP	NP	98	93	48	64	12	51	30	7
B2-B	8.5-10.0	SS-14	22.3	A-6 (12)	12	35	17	18	99	97	75	30	5	24	28	43
B2-B	13.5-15.0	SS-15	-	A-2-4 (0)	3	30	NP	NP	88	72	35	72	27	41	21	11
EB2-A	3.5-5.0	SS-16	21.4	A-4 (0)	8	25	NP	NP	94	79	37	68	27	39	20	14
EB2-A	13.5-15.0	SS-17	26.2	A-6 (6)	5	35	21	14	100	98	58	47	9	39	15	37
EB2-A	38.5-40.0	SS-18	-	A-2-4 (0)	70	22	NP	NP	88	58	21	85	44	39	16	1
EB2-B	1.0-2.5	SS-19	22.5	A-4 (0)	6	29	23	6	94	79	42	64	25	36	19	20
EB2-B	8.5-10.0	SS-20	35.9	A-7-6 (18)	5	55	29	26	92	88	70	34	7	21	31	41
EB2-B	23.5-25.0	SS-21	-	A-1-b (0)	10	38	26	12	98	35	16	86	73	12	3	12
SBD-1	0.0-0.5	G-1	-	A-2-4 (0)	NA	20	NP	NP	71	53	22	82	35	39	20	6
SBD-2	0.0-0.5	G-2	-	A-2-4 (0)	NA	15	NP	NP	100	82	16	88	43	45	11	1

* SS = Split-Spoon Sample (ASTM-D-1586)
** G = Grab Sample
***ST=Shelby Tube (Undisturbed) Sample
NP -- Non Plastic NA-- Non Applicable

TRIGON ENGINEERING CONSULTANTS, INC.
GREENSBORO, NORTH CAROLINA
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LABORATORY SUMMARY SHEET FOR ROCK CORE SAMPLES

WBS ELEMENT NO.: 33454.1.1
PROJECT NO.: 8.1602101 (B-4096)
F.A. NO.: BRSTP-29(20)
COUNTY: Davidson
DESCRIPTION: Bridge No. 140 over Rich Fork Creek on US 29-70/I-85 Business

Sample #	Boring #	Depth (ft.)	Rock Type	Geologic Map Unit	Run RQD	Length (ft.)	Diameter (ft.)	Dry Density (lbs/cu. ft.)	Unconfined Compressive Strength (psi)	Maximum Load (lbs.)	Loading Rate (in./min.)
RS-1	B1-A	55.3-55.7	Metamorphosed Mafic Rock	PzZm	100%	0.4139	0.2083	179.8	13,825	67,830	0.009
RS-2	B2-B	21.0-21.4	Metamorphosed Mafic Rock	PzZm	100%	0.4128	0.2083	169.2	19,824	97,260	0.009