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STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE SUBSURFACE INVESTIGATION

PROJ. REFERENCE NO. 33698.1.1 (B-4428) F.A. PROJ. BRZ-1616(6)
COUNTY BEAUFORT
PROJECT DESCRIPTION BRIDGE NO. 140 ON SR 1626 OVER
ALBEMARLE CANAL AT -L- STATION 12+86

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 FELD BORING LOSS, ROCK CORES, AND SOLI TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (1919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOSS, ROCK CORES, OR SOLI TEST DATA ARE PART OF THE CONTRACT.

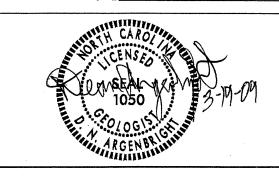
GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORNOS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE, THE LABORATORY SAMPLE DATA AND THE IN STIL (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABLITY 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 ANY 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 DOCLIMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT MARRANT OR GUARANTEE THE SUFFICIENCY OF 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 MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE ENCOUNTERED ON THIS 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

	W.T. HART
	R.E. SMITH
	L.W. DAIL

	*
INVESTIGATED	BY D.N. ARGENBRIGH
CHECKED BY_	D.N. ARGENBRIGHT
SUBMITTED BY	D.N. ARGENBRIGHT
DATE	MARCH 2009

PERSONNEL



3698.

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

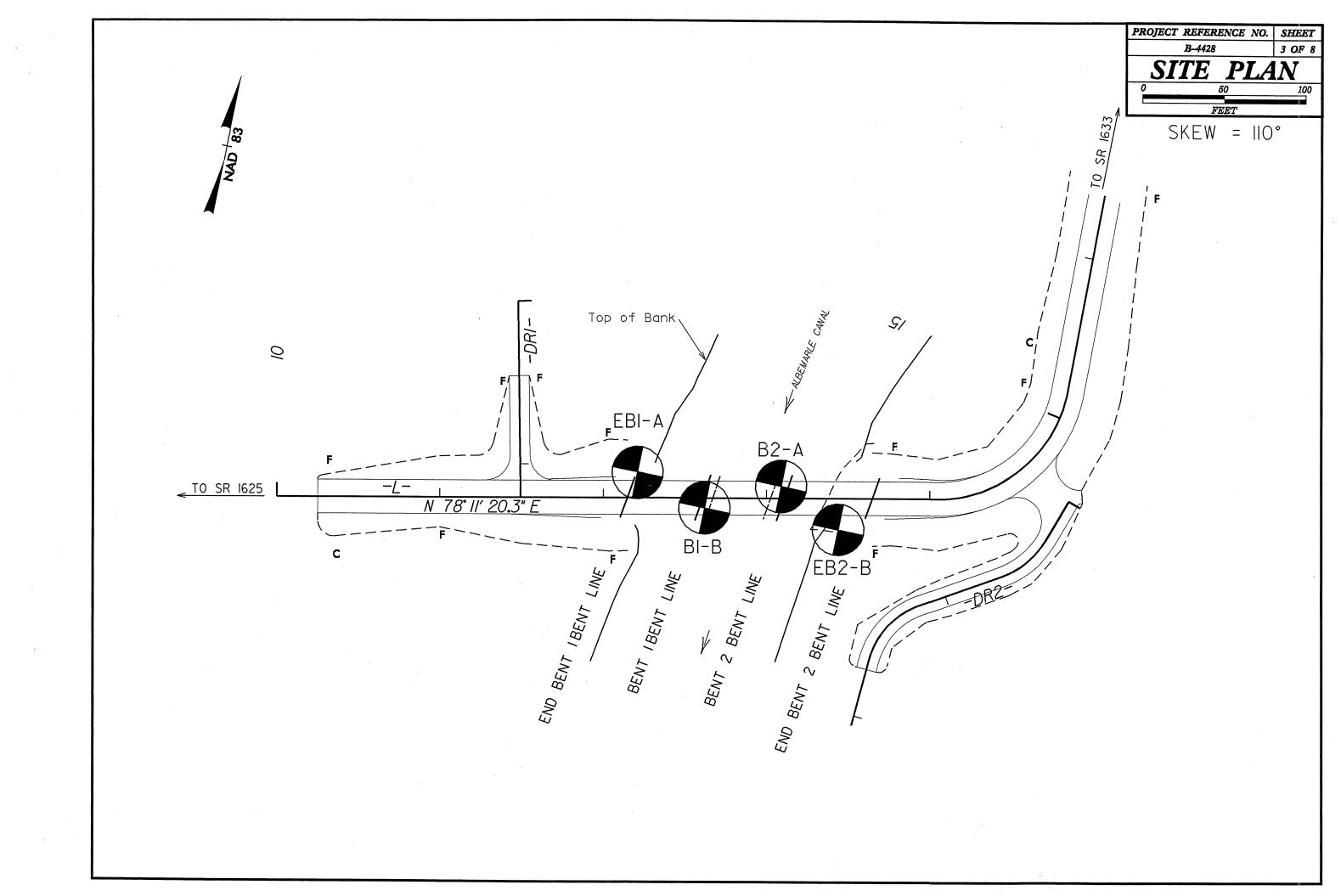
SUBSURFACE INVESTIGATION

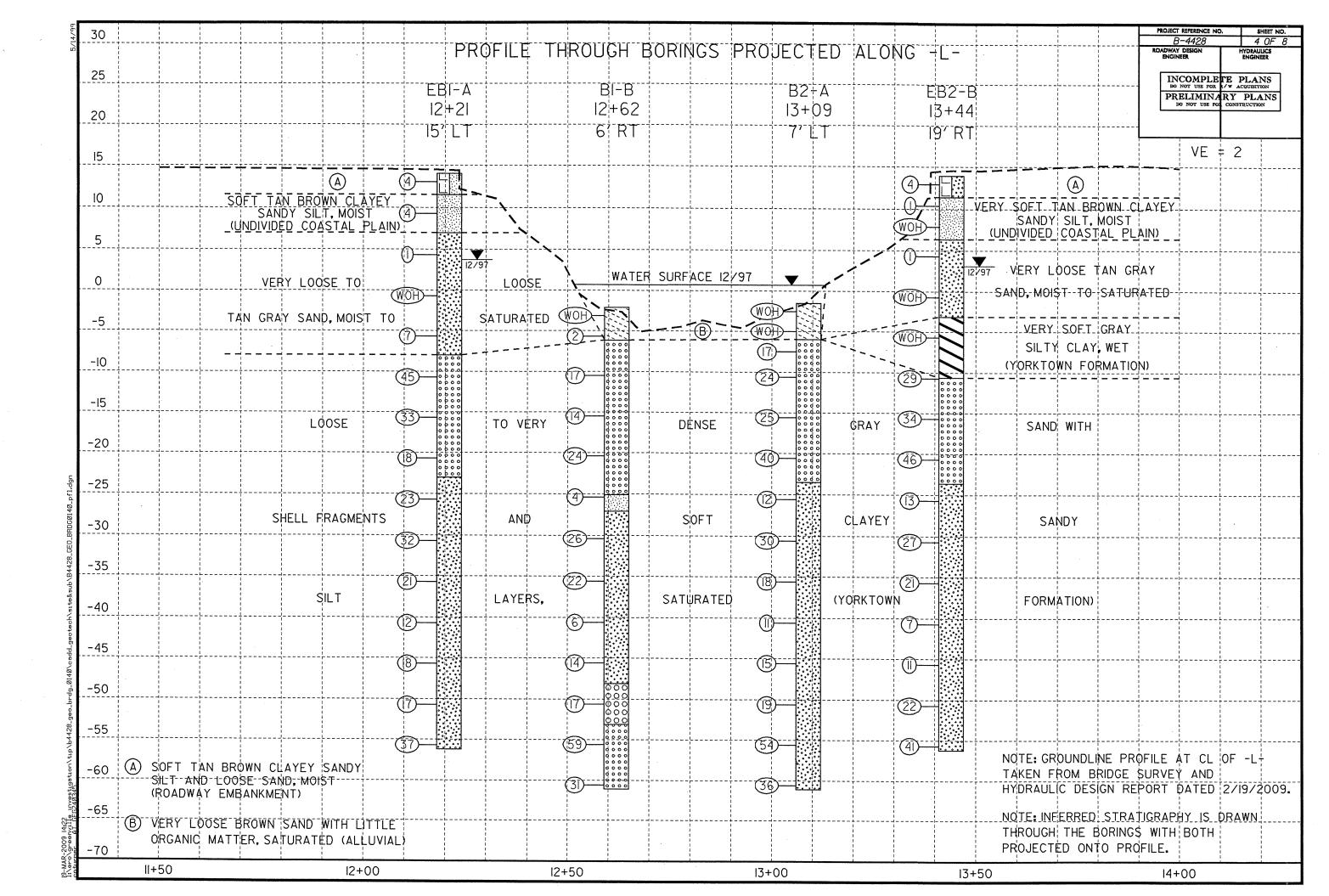
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SOIL LEGEND AND ASSITUATION CLASSIFICATION MINERAL OGICAL COMPOSITION ORNALDA PRINTERIALS ORGANIC MATERIALS ORGANIC MATERIA	ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, AS SHALE, SLATE, ETC.								
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# 40 39 MX 159 MX 25 MX	URE OF ADJACENT								
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WITH FRESH ROCK. PI OF A-7-5 SUBGROUP IS LL - 30; PI OF A-7-6 SUBGROUP I	ITED BY								
CONSISTENCY OR DENSENESS MISCELLANEOUS SYMBOLS SEVERE AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED A	ND TRACED IN								
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S - BULK SAMPLE S - BU	S SMALL COMPARED TO								
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(COHESIVE) VERY STIFF 15 TO 30 2 TO 4 COHESIVE TO 4 TO	D BY TOTAL LENGTH OF								
TEXTURE OR GRAIN SIZE SPT N-VALUE SPT N-VALUE SPT N-VALUE									
U.S. STD. SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD (REF)—SPT REFUSAL SET THE GEOLOGIST'S PICK. WERY HARD CANNOT BE SCRAFT BLOWS OF HAND SPECIMENS REDUIRES SEVERAL SOUNDING ROD (REF)—SPT REFUSAL SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD (REF)—SPT REFUSAL SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD (REF)—SPT REFUSAL SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD (REF)—SPT REFUSAL SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD (REF)—SPT REFUSAL SIEVE SIZE 4 10 40 60 200 270 SOUNDING ROD (REF)—SPT REFUSAL SIZE AND SPECIMENS REDUIRES SEVERAL SIZE AND SPECIMENS RESULTANT SEVERAL SIZE AND SPECIMENS RESULTANT SEVERAL SEVERA	FABRIC OF THE								
OPENING MMI) 4.76 2.00 6.42 0.25 0.075 0.053 ABBREVIATIONS HARD CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY, HARD HAMMER BLOWS REQUIRED SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM TO DETACH HAVE SEFECUTED. TO DETACH HAVE SEFECUTED.									
BOULDER COBBLE GRAVEL SAND SILT CLAY AR - AUGER REFUSAL HI HIGHLY # - MOISTURE CONTENT OF THE INTRUDED ROCKS.	TION ALOND A CAULT OD								
GRAIN MM 305 75 2.0 0.25 0.05 0.005 CL CLAY MICA MICACEOUS VST - VANE SHEAR TEST HARD EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED SLIP PLANE. CYTE IN 13 3	SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE. STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF								
SOIL MOISTURE - CORRELATION OF TERMS ORG ORGANIC ORG O	ON OF 1 FOOT INTO SOIL WITH								
SOIL MOISTURE SCALE FIELD MOISTURE GUIDE FOR FIELD MOISTURE DESCRIPTION 6- VOID RATIO SAP. SAPROLLITIC SOFT CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK, CAN BE EXCAVATED IN FRAGMENTS THAN 0.1 FOOT PER 60 BLOWS.									
F - FINE SD SAND, SANDY FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE. F - FINE SD SAND, SANDY FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN OF STRATA MATERIAL RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERY (SREC.) - TOTAL LENG									
(SAT.) FROM BELOW THE GROUND WATER TABLE FRAC FRACTURED, FRACTURES SLI SLIGHTLY VERY CAN BE CARVED WITH KMIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK, PIECES 1 INCH LL LIQUID LIMIT VERY CAN BE CARVED WITH KMIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK, PIECES 1 INCH TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF PICK SEGMENTS WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN A STRATUM FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN THE FOUND LID OF GREATER TOTAL LENGTH OF FIRST WITHIN THE FIRST WITHIN THE F									
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PLASTIC LIMIT ATTAIN OPTIMUM MOISTURE EQUIPMENT USED ON SUBJECT PROJECT FRACTURE SPACING BEDDING DRILL UNITS: ADVANCING TOOLS: HAMMER TYPE: IERM SPACING IERM THICKNESS BENCH MARK: BM NO.1-BL- STATION 14+26 93' RT (RR	SPIKE IN 20*								
ON OPTIMISM MOISTURE - MDIST - (M) SOLIDI AT OR NEAR OPTIMUM MOISTURE VERY THICKLY BEDDED > 4 FEET VERY THICKLY BEDDED > 4 FEET HARDWOOD)									
SL SHRUNARUE LIPIT MODERATELY CLOSE 1 TO 3 FEET VERY PUBLIC BY AUGED AUG - 1.5 FEET CL	EVATION: 15.28' FT.								
- DRY - (D) ATTAIN OPTIMUM MOISTURE BK-51 Bt-bll Dw Augers D-B VERY CLOSE LESS THAN 0.16 FEET THINLY LAMINATED < 0.008 - 0.03 FEET THINLY LAMINATED < 0.008 FEET THINLY LAMINATED < 0.008 FEET									
PLASTICITY CME-45C HARD FACED FINGER BITS NDURATION									
PLASTICITY INDEX (PI) DRY STRENGTH TIME-CARRIDE INSERTS									
LOW PLASTICITY 6-15 SLIGHT CASING W/ ADVANCER HAND TODIS. CASING W/ ADVANCER HAND TODIS. CASING W/ ADVANCER HAND TODIS.									
HIGH PORTABLE HOIST X TRICONE 2 15/6 STEEL TEETH POST HOLE DIGGER MODERATELY INDURATED GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE:									
COLOR Y CMF-45R TRICONE TRUGG-CARB. HAND AUGER									
DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY).									
MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE. WANE SHEAR TEST EXTREMELY INDURATED SAMPLE BREAKS ACROSS GRAINS.									

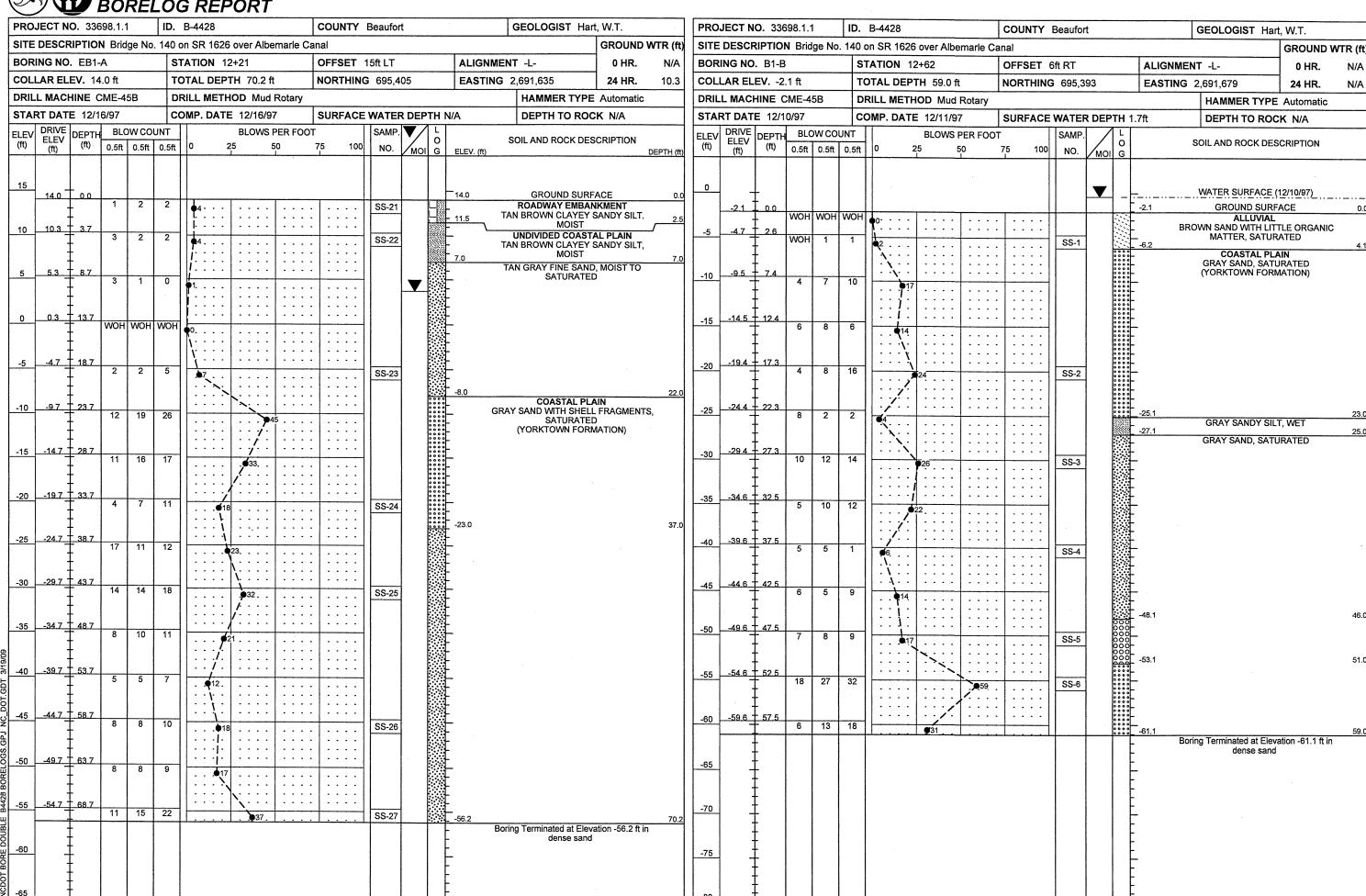
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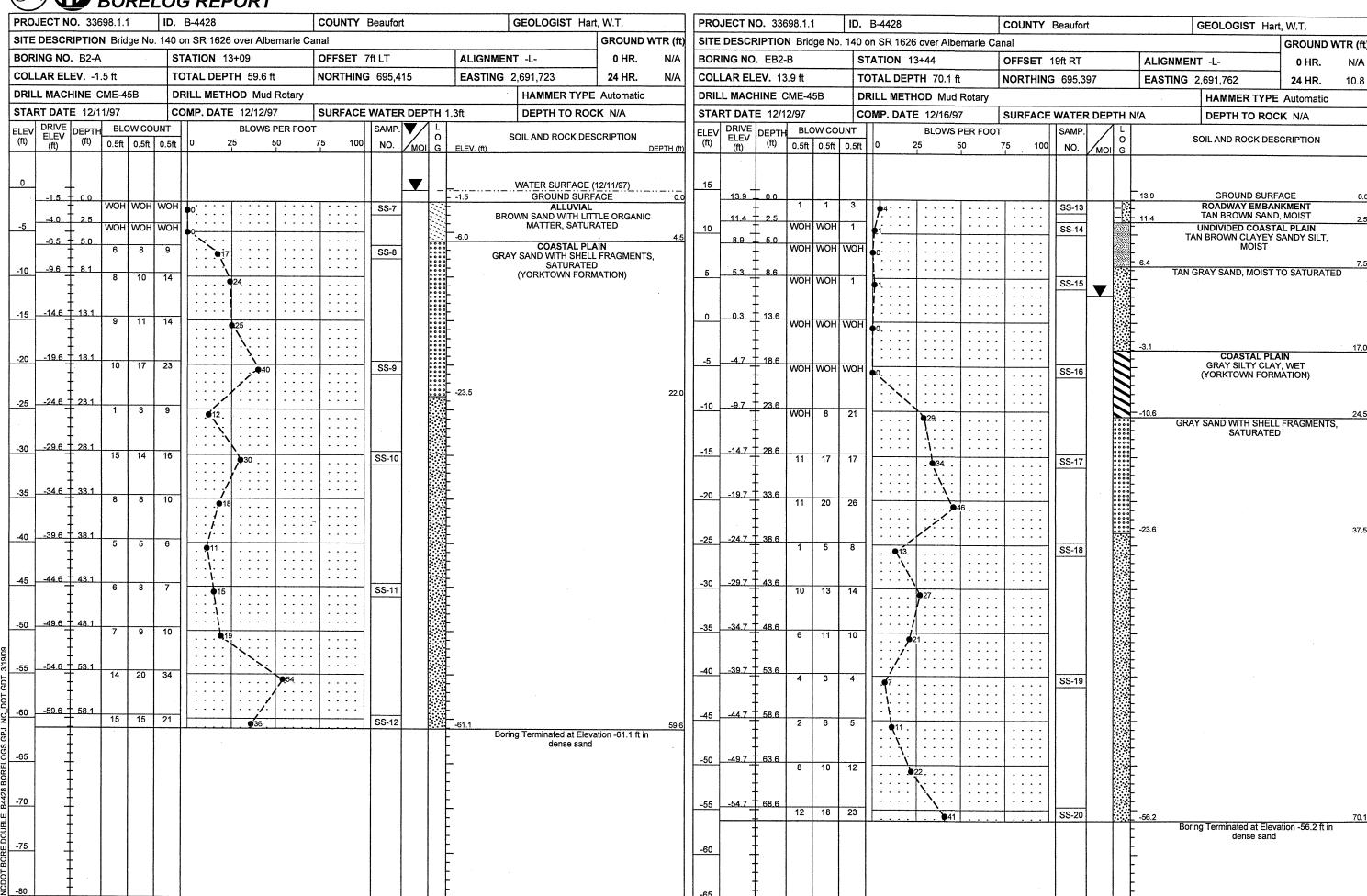
PROJECT REFERENCE NO. 33698.I.I (B-4428)

SHEET NO. 2 OF 8









B-4428 Bridge No. 140 on SR 1626 over Albemarle Canal

HOLE#	SAMPLE 3	PASS 10	PASS 40	PASS 200	CSESAND	FINESAND	<u>SI</u>	<u>CL</u>	<u>LL</u>	<u>PI</u>	CLASS	<u>DEPTH</u>	MOIST. ORG.
B1-B	SS-1	100	97	5	26.3	69.1	2.6	2.0	20	NP	A-3(0)	2.6 - 4.1	
	SS-2	100	97	4	39.9	56.5	3.6	0.0	27	NP	A-3(0)	17.3 - 18.8	
	SS-3	95	59	11	67.7	21.4	6.8	4.0	25	NP	A-2-4(0)	27.3 - 28.8	
	SS-4	92	69	17	39.9	45.1	9.0	6.0	28	NP	A-2-4(0)	37.5 - 39.0	
	SS-5	79	39	11	68.7	18.6	8.6	4.0	25	NP	A-1-b(0)	47.5 - 49.0	
	SS-6	99	95	9	33.5	58.7	3.8	4.0	21	NP	A-3(0)	52.5 - 54.0	
B2-A	SS-7	100	96	4	50.9	45.7	1.4	2.0	21	NP	A-3(0)	1.0 - 1.5	
	SS-8	100	77	6	64.9	30.3	4.8	0.0	19	NP	A-3(0)	5.0 - 6.5	
	SS-9	100	98	8	41.5	51.9	4.6	2.0	24	NP	A-3(0)	18.1 - 19.6	
	SS-10	95	64	14	63.7	23.4	6.8	6.0	22	NP	A-2-4(0)	28.1 - 29.6	
	SS-11	87	69	14	32.7	53.3	8.0	6.0	25	NP	A-2-4(0)	43.1 - 44.6	
	SS-12	100	97	12	31.9	57.9	6.2	4.0	20	NP	A-2-4(0)	58.1 - 59.6	
EB2-B	SS-13	100	93	22	28.3	51.7	10.0	10.0	18	NP	A-2-4(0)	1.0 - 1.5	
	SS-14	100	99	54	11.6	36.1	28.3	24.0	25	5	A-4(0)	2.5 - 4.0	
	SS-15	100	98	16	22.6	62.7	6.6	8.0	19	NP	A-2-4(0)	8.6 - 10.1	
	SS-16	100	99	86	3.0	14.2	36.7	46.1	55	19	A-7-5(0)	18.6 - 20.1	
	SS-17	100	62	8	72.5	20.8	4.6	2.0	17	NP	A-3(0)	28.6 - 30.1	
	SS-18	83	56	23	53.1	21.0	15.8	10.0	32	NP	A-2-4(0)	38.6 - 40.1	
	SS-19	87	66	22	37.3	41.5	11.2	10.0	28	NP	A-2-4(0)	53.6 - 55.1	
	SS-20	98	92	15	33.9	53.1	9.0	4.0	19	NP	A-2-4(0)	68.6 - 70.1	
EB1-A	SS-21	93	88	40	17.4	41.9	20.6	20.0	24	7	A-4(0)	1.0 - 1.5	
	SS-22	99	96	43	14.4	43.3	22.2	20.0	24	4	A-4(0)	3.7 - 5.2	
	SS-23	100	100	17	6.4	81.0	10.6	2.0	23	NP	A-2-4(0)	18.7 - 20.2	
	SS-24	100	91	7	52.5	41.9	3.6	2.0	21	NP	A-3(0)	33.7 - 35.2	
	SS-25	97	66	12	64.1	25.3	6.6	4.0	23	NP	A-2-4(0)	43.7 - 45.2	
	SS-26	83	63	13	36.9	50.3	6.8	6.0	24	NP	A-2-4(0)	58.7 - 60.2	
	SS-27	96	84	13	39.9	48.5	7.6	4.0	21	NP	A-2-4(0)	68.7 - 70.2	