

REFERENCE: B-6049

PROJECT: 48324

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

**STRUCTURE**  
**SUBSURFACE INVESTIGATION**

COUNTY SAMPSON  
PROJECT DESCRIPTION BRIDGE NO. 72 ON SR 1206  
(WRIGHT BRIDGE ROAD) OVER GREAT COHARIE  
CREEK AT -L- STATION 16+99

**CONTENTS**

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	TITLE SHEET
2	LEGEND (SOIL & ROCK)
3	SITE PLAN
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9	SITE PHOTOGRAPH

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6049	1	9

**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.

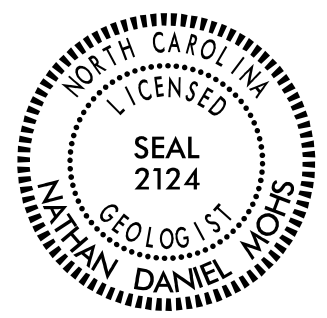
THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT 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 MAKE SUCH INDEPENDENT SUBSURFACE INVESTIGATIONS AS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO CONDITIONS TO BE 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

C. STEPHENS, GIT  
M. STANBURY, PG  
BRIDGER DRILLING

INVESTIGATED BY N. MOHS, LG  
DRAWN BY C. STEPHENS, GIT  
CHECKED BY S. JOHNSON, PE, PG  
SUBMITTED BY N. MOHS, LG  
DATE JANUARY 2023



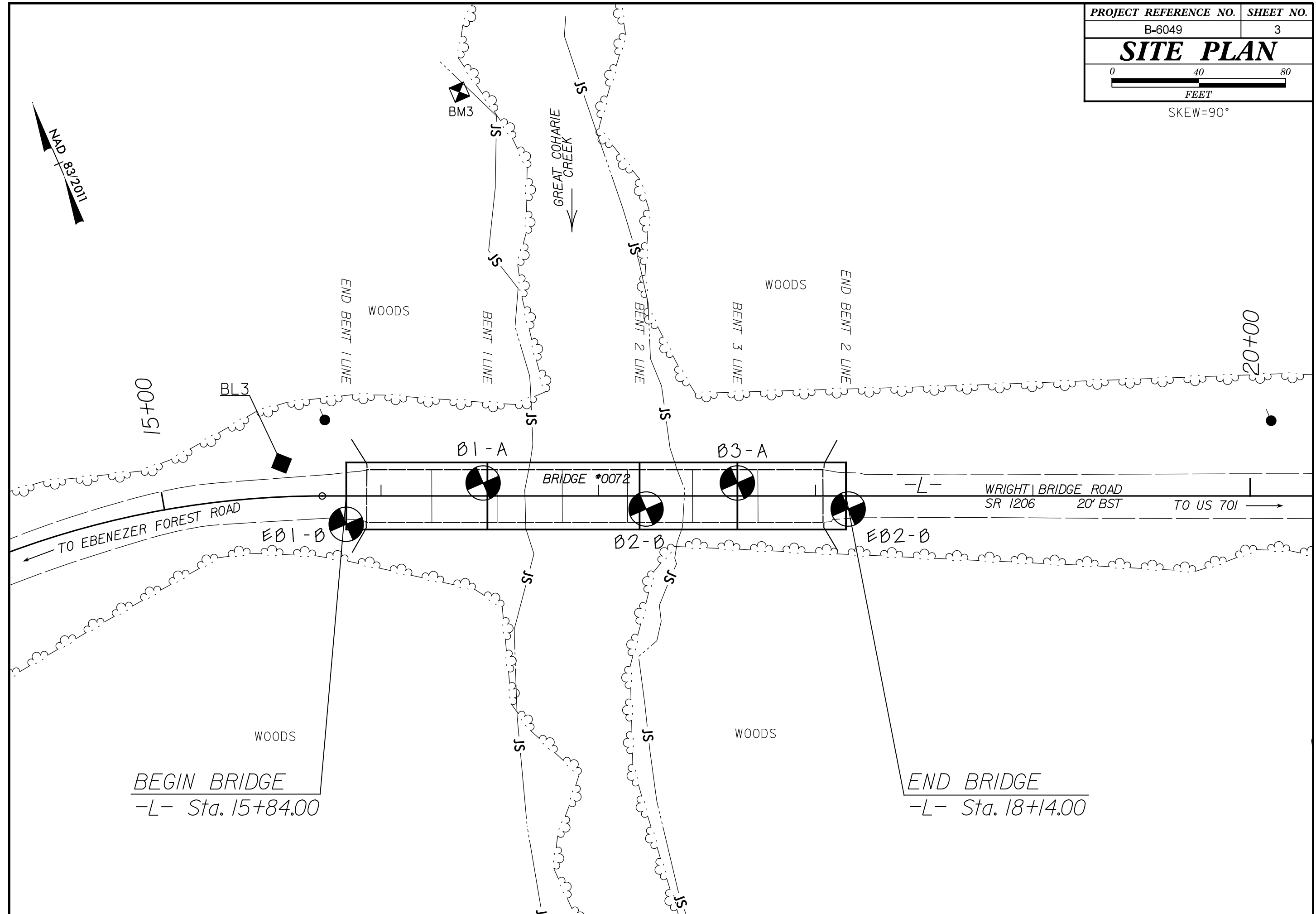
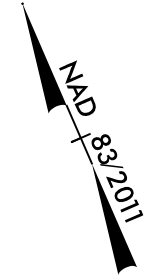
DocuSigned by:  
Nathan Daniel Mohs 3/02/2023  
631A2765E8A44C2  
SIGNATURE DATE

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

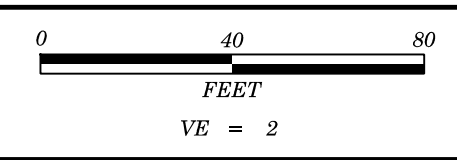
SOIL DESCRIPTION, GRADATION, ROCK DESCRIPTION, TERMS AND DEFINITIONS, SOIL LEGEND AND AASHTO CLASSIFICATION, CONSISTENCY OR DENSENESS, TEXTURE OR GRAIN SIZE, SOIL MOISTURE - CORRELATION OF TERMS, PLASTICITY, COLOR, MISCELLANEOUS SYMBOLS, RECOMMENDATION SYMBOLS, ABBREVIATIONS, EQUIPMENT USED ON SUBJECT PROJECT, FRACTURE SPACING, BEDDING, INDURATION, and NOTES.

SKEW=90°

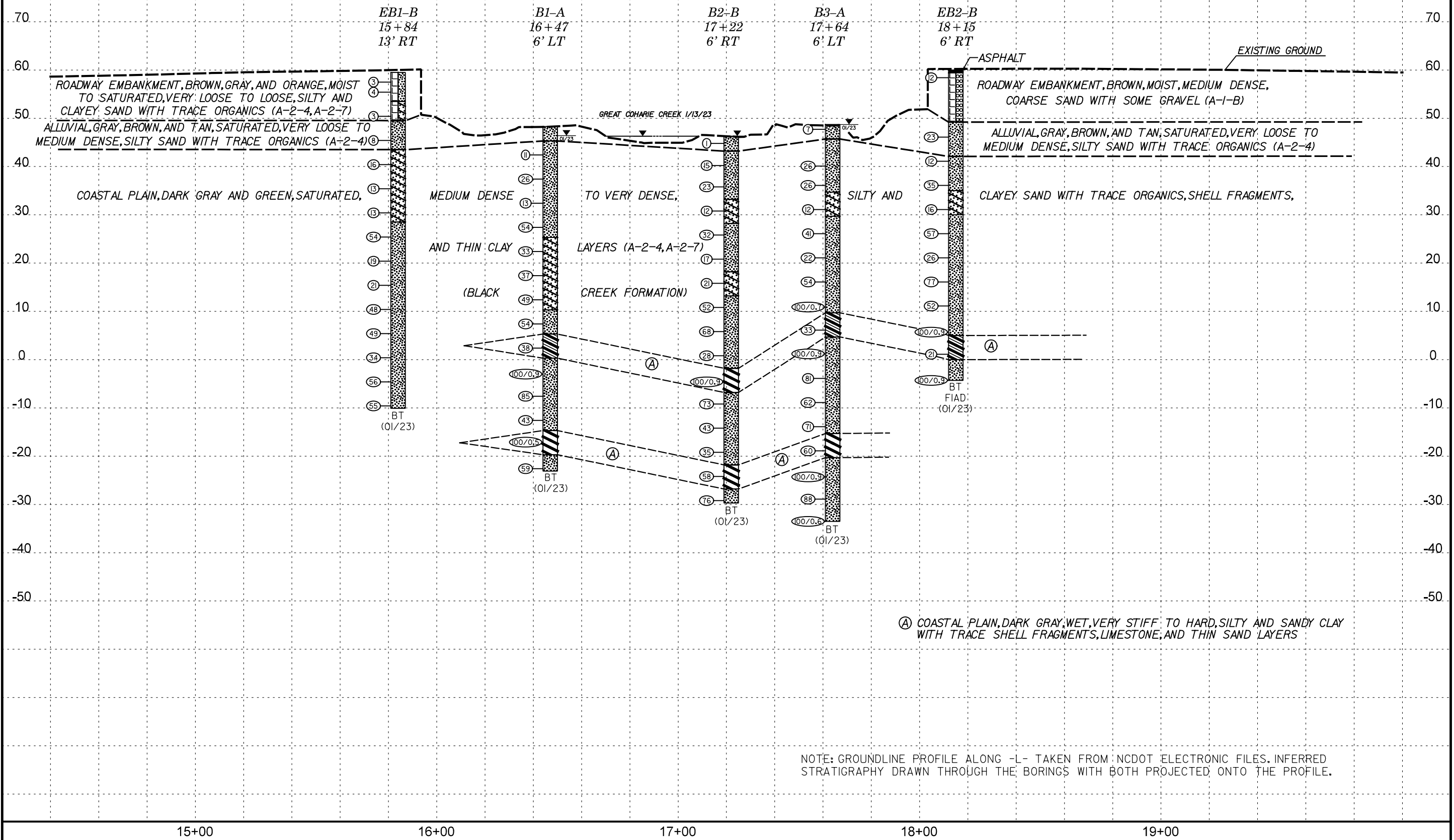


BEGIN BRIDGE  
-L- Sta. 15+84.00

END BRIDGE  
-L- Sta. 18+14.00



PROJECT REFERENCE NO.	SHEET NO.
B-6049	4
PROFILE OF BORINGS ALONG -L-	





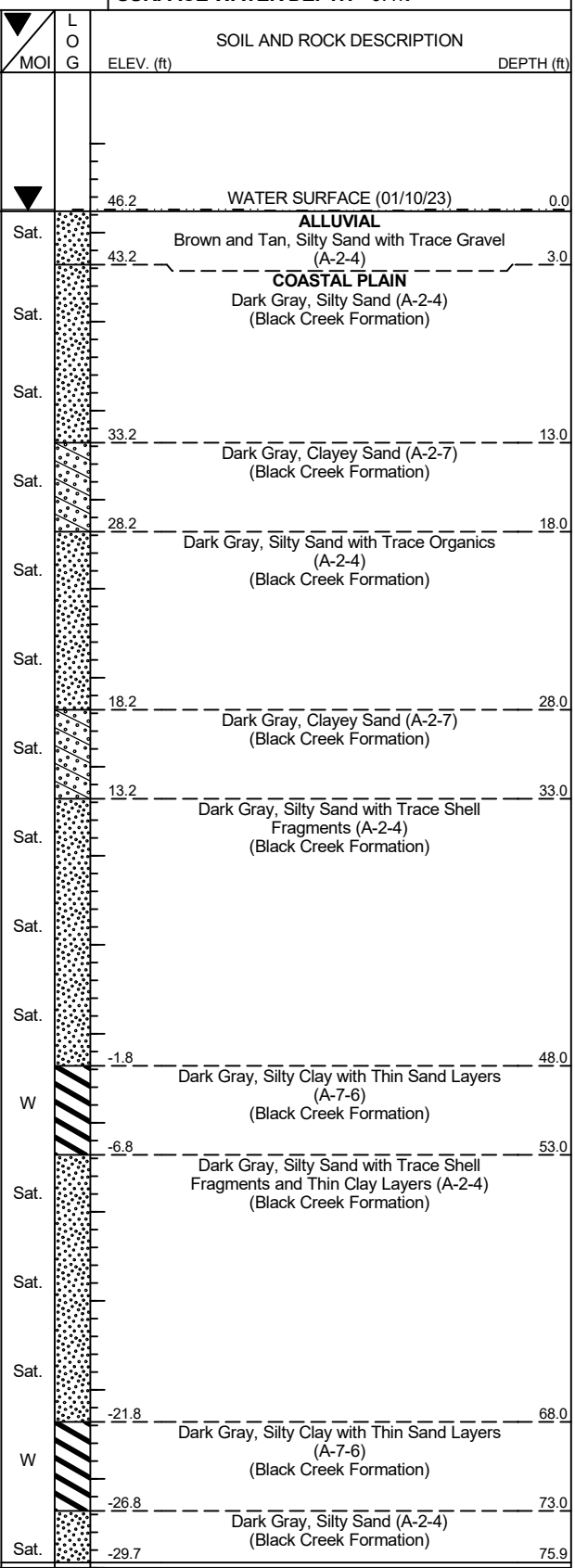
# GEOTECHNICAL BORING REPORT

## BORE LOG

WBS 48324.1.1		TIP B-6049		COUNTY SAMPSON		GEOLOGIST C. Stephens										
SITE DESCRIPTION Bridge No. 72 on SR 1206 (Wright Bridge Road) over Great Coharie Creek at -L- Station 16+99							GROUND WTR (ft)									
BORING NO. B2-B		STATION 17+22		OFFSET 6 ft RT		ALIGNMENT -L-										
COLLAR ELEV. 46.2 ft		TOTAL DEPTH 75.9 ft		NORTHING 395,478		EASTING 2,190,543										
DRILL RIG/HAMMER EFF./DATE BRI2974 CME-45C 77% 04/19/2022			DRILL METHOD Mud Rotary		HAMMER TYPE Automatic											
DRILLER N. Bigley		START DATE 01/10/23		COMP. DATE 01/10/23		SURFACE WATER DEPTH 0.1ft										
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
50																
45	45.8	0.4	1	1	0											
40	41.2	5.0	6	7	8											
35	36.8	9.4	8	12	11											
30	31.8	14.4	5	5	7											
25	26.8	19.4	11	14	18											
20	21.8	24.4	6	8	9											
15	16.8	29.4	8	9	12											
10	11.8	34.4	15	24	28											
5	6.8	39.4	17	37	31											
0	1.8	44.4	7	11	17											
-5	-3.2	49.4	19	27	73/0.4											
-10	-8.2	54.4	38	36	37											
-15	-13.2	59.4	17	20	23											
-20	-18.2	64.4	11	15	20											
-25	-23.2	69.4	27	26	32											
	-28.2	74.4	18	24	52											

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-30																

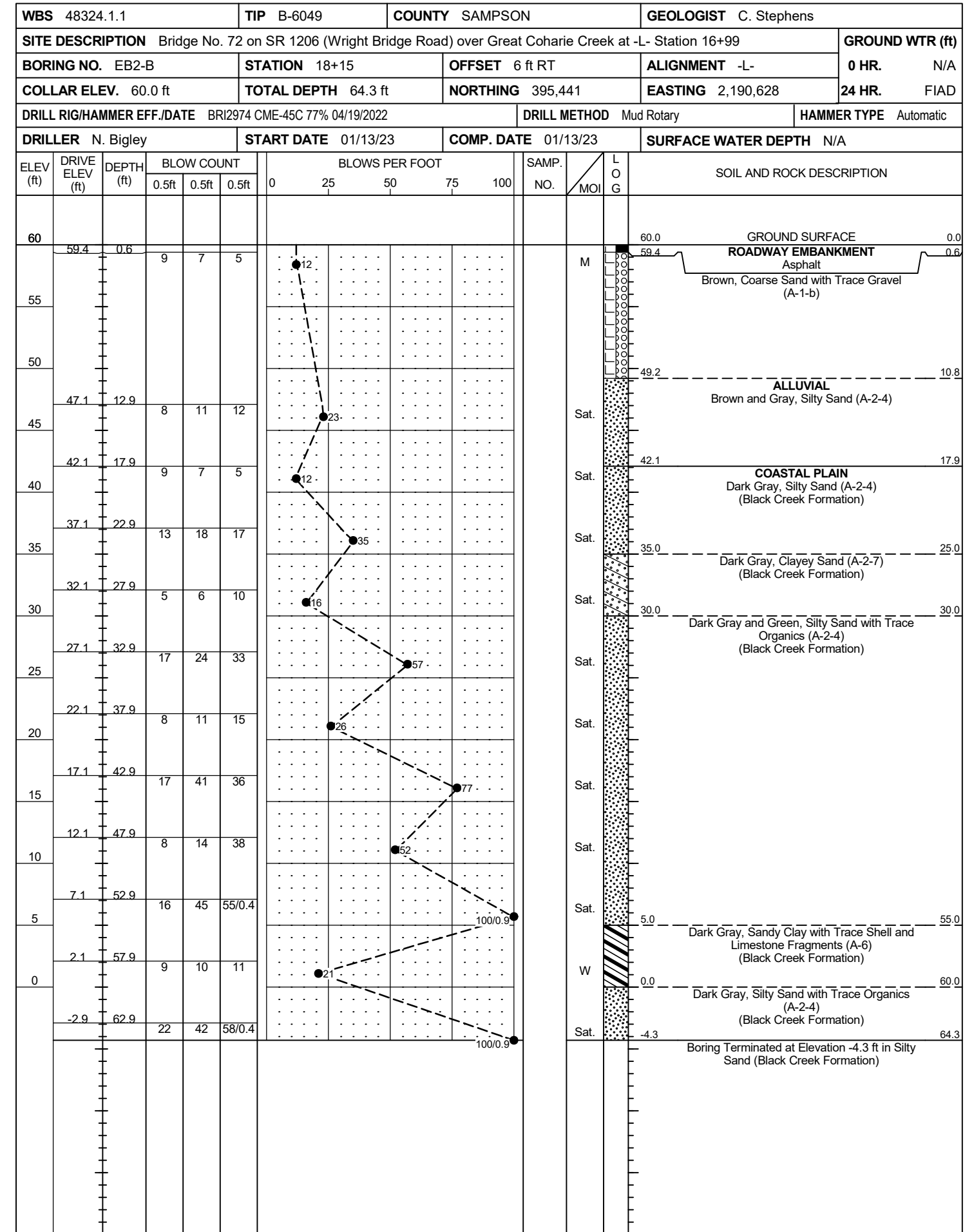
NCDOT BORE DOUBLE B6049\_GEO\_BRDG\_BH.GPJ\_NC\_DOT.GDT 1/26/23



Match Line

Boring Terminated at Elevation -29.7 ft in Silty Sand (Black Creek Formation)







# SITE PHOTOGRAPH

Bridge No. 72 on SR 1206 (Wright Bridge Rd.) over Great Coharie Creek



Looking East from near Bent 1