STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL UNIT

STRUCTURE SUBSURFACE INVESTIGATION

STATE PROJECT 33375.1.1 I, D. NO.B-4007
F. A. PROJECT BRSTP-18(8)
COUNTY ALLEGHANY
PROJECT DESCRIPTION BRIDGE NO. 38
OVER CRAB CREEK ON NC 18; DETOUR BRIDGE
OVER CRAB CREEK ON NC 18
SITE DESCRIPTION

STATE	STATE	PROJECT	REFERENC	E NO.	SHEET NO.	TOTA
N.C.		B-4	007		1	
STATE	ATE PROJ. NO.		PROJ. NO.	DE	SCRIP	TION
33375	5.1.1	BRST	P-18(8)		P.E.	
				CDNST.		

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WAS MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BURNING LOGS, ROCK CORES, AND SOIL IEST DATA AVAILABLE MAY BE REVIEVED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL UNIT @ (919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BURING LOGS, ROCK CORES, OR SOIL TEST DATA IS PART OF THE CONTRACT.

GENERAL SDIL 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 BORNINGS 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 RELIABLITY IN-PERENT IN THE STANDARD TEST METHOD.
THE OBSERVED WATER LEVELS OR SDIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE
INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SDIL
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 DNLY 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 HINSELF 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 THE SUBSURFACE INVESTIGATION.

For Letting

INVESTIGATED BY ECS, LTD. PERSONNEL J. WHITE

CHECKED BY D. D. BELL, P.E. M. SANDERS

SUBMITTED BY T. J. ROBERSON T. CALLOWAY

DATE 7/5/05 S. ZIRPOLO

NOTE - THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS BEING ACCURATE NOR IT IS CONSIDERED TO BE PART OF THE PLANS, SPECIFICATIONS, DR CONTRACT FOR THE PROJECT.

NOTE - 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.



DRAWN BY: M. SANDERS

CONTENTS:

WRITTEN REPORT

CROSS SECTIONS

SCOUR REPORT

SITE PHOTOS

CONTENTS:

CROSS SECTIONS

SCOUR REPORT

SITE PHOTOS

LABORATORY SUMMARY

GRAIN SIZE CURVES

PROFILE

LDGS

BORING LOCATION DIAGRAM

LABORATORY SUMMARY

GRAIN SIZE CURVES

PROFILE

M

SITE VICINITY MAP

NCDOT SOIL AND ROCK LEGEND

BORING LOCATION DIAGRAM

LDGS, CORE REPORT, CORE PHOTOS

SHEET NUMBER

3-5

9-10

11-22

23

24-25

26

27-28

SHEET NUMBER

30

31

32-34

35

36-37

38

39