

PROJECT: 32574 REFERENCE: A-0011C

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

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY CLAY
 PROJECT DESCRIPTION NC 69 FROM GEORGIA STATE
LINE TO US 64

SITE DESCRIPTION CULVERT ON -L- (NC 69)
STATION 94 + 91 OVER HYATT MILL CREEK

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	A-0011C	1	5

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:
- 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.
 - 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

TRIGON

GOODNIGHT, D. J.

WEIS, J. M.

INVESTIGATED BY FALCON ENG.

DRAWN BY HILL, M. J.

CHECKED BY HUNSBERGER, W. S.

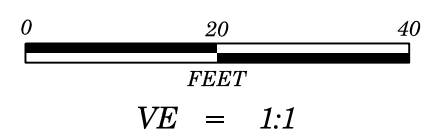
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DATE MAY 2019



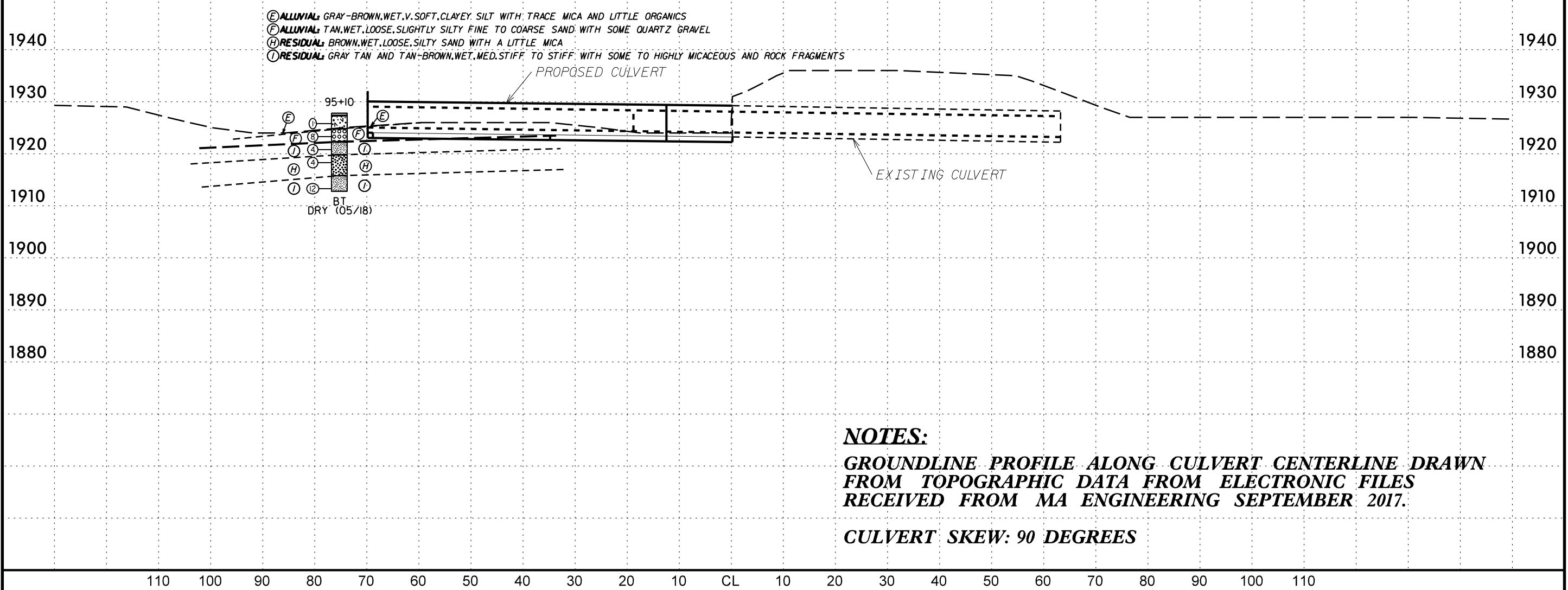
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Jeremy R Hamm 5/15/2019
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**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



PROJECT REFERENCE NO.	SHEET NO.
A-0011C	4
PROFILE OF CULVERT AT -L- STATION 94+91	

-L-
94+91



NOTES:
GROUNDLINE PROFILE ALONG CULVERT CENTERLINE DRAWN FROM TOPOGRAPHIC DATA FROM ELECTRONIC FILES RECEIVED FROM MA ENGINEERING SEPTEMBER 2017.
CULVERT SKEW: 90 DEGREES

GEOTECHNICAL BORING REPORT

BORE LOG

WBS 32574.1.FD7		TIP A-0011C		COUNTY CLAY		GEOLOGIST Goodnight, D. J.										
SITE DESCRIPTION NC 69 ROAD WIDENING FROM GA STATE LINE TO US 64 (HAYESVILLE BYPASS)							GROUND WTR (ft)									
BORING NO. B-038		STATION 95+10		OFFSET 78 ft LT		ALIGNMENT -L-										
COLLAR ELEV. 1,927.8 ft		TOTAL DEPTH 15.0 ft		NORTHING 492,424		EASTING 555,305										
DRILL RIG/HAMMER EFF./DATE TRI8016 MOBILE B-57 95% 03/19/2018				DRILL METHOD H.S. Augers		HAMMER TYPE Automatic										
DRILLER Estep, J. E.		START DATE 05/10/18		COMP. DATE 05/10/18		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			ELEV. (ft)	DEPTH (ft)		
1930														1,927.8	0.0	GROUND SURFACE
														1,927.3	0.5	0.5' TOPSOIL
1925	1,926.8	1.0	1	WOH	1								W	1,924.8	3.0	ALLUVIAL GRAY-BROWN, CLAYEY SILT (A-5) WITH TRACE MICA AND ORGANICS
	1,924.3	3.5	10	5	3								W	1,922.3	5.5	TAN, SLIGHTLY SILTY FINE TO COARSE SAND (A-1-b) WITH SOME QUARTZ GRAVEL
1920	1,921.8	6.0	1	2	2								W	1,919.8	8.0	RESIDUAL GRAY AND TAN, SANDY SILT (A-4) WITH SOME MICA AND ROCK FRAGMENTS
	1,919.3	8.5	1	2	2								W	1,915.8	12.0	BROWN, SILTY SAND (A-2-4) WITH A LITTLE MICA
1915	1,914.3	13.5	3	5	7								W	1,912.8	15.0	TAN-BROWN, SANDY SILT (A-4) HIGHLY MICACEOUS
																Boring Terminated at Elevation 1,912.8 ft IN RESIDUAL: SANDY SILT

NCDOT BORE DOUBLE A011C_GEO_RDWY_GINT.GPJ NC_DOT.GDT 5/8/19