
Hangar and Egress Shop Addition
Columbus AFB, MS
T7HE-1-22
T7HE-2-22
T7HE-3-22
T7HE-4-22
T7HE-5-22 (Concrete Core)
Google Earth
N
100 ft

APPENDIX 'A' - LOGS OF BORINGS AND TEST DATA

GENERAL NOTES:

1. GROUNDWATER DEPTHS OR ELEVATIONS SHOWN ON THE BORING LOGS REPRESENT GROUNDWATER ENCOUNTERED ON THE DATES SHOWN. ABSENCE OF GROUNDWATER DATA ON CERTAIN BORINGS IMPLIES THAT NO DATA IS AVAILABLE, BUT DOES NOT NECESSARILY MEAN THAT GROUNDWATER WILL NOT BE ENCOUNTERED AT THE LOCATIONS. GROUNDWATER ELEVATIONS VARY AND SEEPAGE ABOVE THE DEPTHS OR ELEVATIONS SHOWN CAN BE EXPECTED AT ANY TIME.

2. WHILE THE BORINGS ARE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT THEIR RESPECTIVE LOCATIONS AND FOR THEIR RESPECTIVE VERTICAL REACHES, LOCAL MINOR VARIATIONS IN CHARACTERISTICS OF THE SUBSURFACE MATERIALS ARE ANTICIPATED AND, IF ENCOUNTERED, SUCH VARIATIONS WILL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THE DESCRIPTION SHOWN WITH THE LOGS OR PROFILES.

3. SOILS ARE CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM-D-2487, CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES.

4. DRIVING RESISTANCES (BLOW COUNTS OR N VALUES) ARE DETERMINED WITH A STANDARD SPLIT SPOON SAMPLER (1-3/8" I.D.) AND A 140-LB DRIVING HAMMER WITH A 30" DROP UNLESS OTHERWISE NOTED ON THE BORING LOGS. N VALUES SHOWN NUMERICALLY ON THE LOGS ARE THE SUM OF BLOWS FOR THE LOWER TWO OF THREE 0.5-FOOT DRIVES THAT MAKE UP THE 1.5-FOOT STANDARD PENETRATION TEST, EXCEPT WHEN REFUSAL OCCURS. REFUSAL OF THE SPLITSPOON IS DEFINED AS 50 BLOWS IN LESS THAN A 0.5-FOOT DRIVE. REFUSAL IS SHOWN ON THE LOGS AS INDICATED IN THE FOLLOWING EXAMPLES:

50/0.3' - INDICATES 50 BLOWS (REFUSAL) AFTER 0.3' PENETRATION IN THE FIRST DRIVE.

20, 50/0.2' - INDICATES 20 BLOWS IN THE FIRST DRIVE AND REFUSAL AFTER 0.2' PENETRATION IN THE SECOND DRIVE.

20, 85/0.8' - INDICATES 20 BLOWS IN THE FIRST DRIVE, 35 BLOWS IN THE SECOND DRIVE AND REFUSAL (50 BLOWS) AFTER 0.3' PENETRATION IN THE THIRD DRIVE.

5. "MAX SIZE" OF GRAVEL OR ROCK FRAGMENTS SHOWN ON THE BORING LOGS REPRESENTS THE MAXIMUM SIZE OF MATERIAL RECOVERED IN THE DRIVE SAMPLER AND/OR CORE BARREL OR OBSERVED FROM AUGERING UNLESS OTHERWISE NOTED. NOTE THAT THE MAXIMUM LOGGED SIZE OF GRAVEL OR ROCK FRAGMENTS IS LIKELY TO BE SMALLER THAN THE MAXIMUM SIZE OF THE IN-PLACE MATERIAL, ESPECIALLY WHEN THE MAXIMUM LOGGED SIZE IS MORE THAN APPROXIMATELY ONE-HALF THE DIAMETER OF THE DRIVE SAMPLER OR CORE BARREL, OR MORE THAN ONE-THIRD THE DIAMETER OF THE AUGER.

6. CLASSIFICATIONS SHOWN IN COLUMN D OF THE BORING LOG FORM ARE THE DRILLING INSPECTOR'S FIELD VISUAL CLASSIFICATION OF SAMPLES UNLESS OTHERWISE INDICATED ON THE LOG. WHEN AVAILABLE, LABORATORY CLASSIFICATIONS OF SAMPLES ARE SHOWN IN COLUMN G (REMARKS COLUMN) UNLESS OTHERWISE INDICATED.

SOIL CLASSIFICATION LEGEND

COARSE-GRAINED SOILS - MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE

GW		WELL GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GP		POORLY GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
GM		SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
GC		CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
SW		WELL GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
SP		POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
SM		SILTY SANDS, SAND-SILT MIXTURES
SM-H		SAME AS ABOVE WITH HIGH LIQUID LIMIT
SC		CLAYEY SANDS, SAND-CLAY MIXTURES
SC-H		SAME AS ABOVE WITH HIGH LIQUID LIMIT

NOTE: DUAL CLASSIFICATIONS, E.G. SP-SM, GP-GM, ML-CL AND SM-SC, ARE SHOWN BY PLACING BOTH SYMBOLS SIDE BY SIDE.

FINE-GRAINED SOILS - MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE

ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SANDY SILTS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDS OR SILTY SOIL, PLASTIC SILTS
OL		ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY
OH		ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
PT		PEAT AND OTHER HIGHLY ORGANIC SOILS
		BITUMEN, ASPHALT, OR ASPHALTIC CONCRETE
		CONCRETE

ROCK CLASSIFICATION LEGEND


SANDSTONE


RHYOLITE


SILTSTONE OR CLAYSTONE


BASALT


SHALE


GRANITE


CEMENTED SHALE


GNEISS


LIMESTONE


CONGLOMERATE

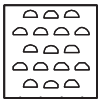

DOLOMITE


CHERT


SCHIST


COAL


PHYLLITE


SHELL, SHELL FRAGMENTS,
OR SHELL-SOIL MIXTURE
CONSISTING MOSTLY OF SHELL


QUARTZITE


WOOD


NOT SAMPLED OR
SAMPLE NOT RECOVERED


VOID (CAVITY,
OPEN JOINT, ETC.)

ABBREVIATIONS

@	AT
ACCUM	ACCUMULATED
ALT	ALTERNATING
ANG	ANGULAR
APPROX.	APPROXIMATE (LY)
ARGIL	ARGILLACEOUS
AUG	AUGER
AVG	AVERAGE
B.A.	BASE OF ALLUVIUM
B.I.	BREAKAGE INTERVAL
B.O.H.	BOTTOM OF HOLE
BBL	BARREL
BDD	BED (ED) (DING)
BDR	BEDROCK
BENT.	BENTONITIC
BGE	BEIGE
BKY	BLOCKY
BL	BLACK (ISH)
BLD	BOULDER
BR	BROWN (ISH)
BREC.	BRECCIATED
BRK	BROKEN. BREAKAGE
C.D.	CORRECTED DEPTH
CAL	CALCITE. CALCAREOUS
CARB	CARBONACEOUS
CAV	CAVITY
CBL	COBBLE
CEM	CEMENT
CHT	CHERT
CIRCLE.	CIRCULATION
CLY	CLAYEY
CMT'D	CEMENTED
CNTR (S)	CONCENTRATION (S)
COMP	COMPACT
CONC	CONCRETE
CONCR	CONCRETIONS
CONGL	CONGLOMERATE
CONT.	CONTINUED
CR'D	CRUSHED
CRM	CRUMBLY
CSE	COARSE
CTD	COATED
D.	DENSE
d.	DEPTH
D.A.	DRILL ACTION
D.T.	DRILL TIME
D.W.L.	DRILL WATER LOSS
D.W.R.	DRILL WATER RETURN
DECOM	DECOMPOSED
DIAG	DIAGONAL
DIS.	DISSEMINATED
DK	DARK
DOL.	DOLOMITE. DOLOMITIC
DRL	DRILLING
DSTG	DISINTEGRATE (D)
EL	ELEVATION
ENC	ENCOUNTERED
EST	ESTIMATE (D)
EXCL	EXCLUDING
EXTR	EXTREMELY
F.	FINE (LY)
F.R.	FLUID RETURN
F/T	FISHTAILED
FE	IRON
FERR	FERRUGINOUS
FIS	FISSILE
FLD	FILLED
FM	FORMATION

ABBREVIATIONS

FOLIA.	FOLIATION
FOS	FOSSIL (IFEROUS)
FRAC	FRACTURE
FRAG	FRAGMENT (S)
G.W.	GROUNDWATER
GEN.	GENERALLY
GLAU	GLAUCONITE (ITIC)
GR	GRAY (ISH)
GRA	GRAIN (ED)
GRAD	GRADATIONAL
GRN	GREEN (ISH)
GRT	GROUT
GVL	GRAVEL (LY)
GYP	GYPSUM
H/A	HIGH ANGLE
H/B	HAMMER BREAK
HD	HARD
HI	HIGH (LY)
HLD	HEALED
HMR	HAMMER
HOR	HORIZONTAL
HYD	HYDRAULIC
INCL	INCLUDING (ED)
INDT	INDURATED
INIT	INITIAL (LY)
INTBDD	INTERBED (DED)
INTLAM	INTERLAMINATED
IRR	IRREGULAR (LY)
JT'S	JOINT'S
JTD	JOINTED
L.C.	LOSE CORE
L.D.W.	LOST DRILL WATER
L/A	LOW ANGLE
LAB.	LABOR
LAM	LAMINATED. LAMINA (NAE)
LAY.	LAYER
LEA	LEACHED
LGE	LARGE
LIG	LIGNITIC
LIT	LITTLE
LL	LIQUID LIMIT
LN. (S)	LENSE (S)
LO	LOOSE
LS	LIMESTONE
LT	LIGHT
MAS	MASSIVE
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MIC	MICACEOUS
MIN	MINIMUM
MINR	MINERALIZED (IZATION)
MIX.	MIXTURE
MOD	MODERATE (D)
MOT	MOTTLED (ING)
MST	MOIST
MTL	MATERIAL
MTX	MATRIX
N/A	NOT APPLICABLE
N/E	NOT ENCOUNTERED
N/R	NO RECOVERY
NOD.	NODULE
NUM	NUMEROUS
OB	OVERBURDEN (UNCLASSIFIED)
OBS	OBSERVED
OCC	OCCASIONAL (LY)
OOL	OOLITE. OOLITIC
OP	OPEN (ED)
OR	ORANGE

ABBREVIATIONS

ORG	ORGANIC
P.S.I.	POUNDS/SQ. IN.
P.T.	PRESSURE TEST
PART.	PARTIALLY
PCS	PIECES
PERTRO	PETROLEUM. PETROLIFEROUS
PHOS	PHOSPHATE (PHOROUS)
PI	PLASTICITY INDEX
PIT	PIT (TED) (TING)
PKT (S)	POCKET (S)
PL	PLASTIC LIMIT
PLA	PLATY
PLAS	PLASTIC
PLN	PLANE
PNK	PINK
PR	POORLY
PRED	PREDOMINATED
PRESS	PRESSURE
PROB	PROBABLE (ABILITY)
PTC	PARTICLES
PTG	PARTING
PUR	PURPLE
QTZ	QUARTZ
QTZE	QUARTZITE
R.Q.D.	ROCK QUALITY DESIGNATION
RBL	RUBBLE
RD	RED (DISH)
REC	RECOVERY
RECEM	RECEMENTED
RND	ROUND (ED)
RTS	ROOTS
S/S	SPLIT
SAP	SAPROLITE
SAT	SATURATED
SCAT.	SCATTEREDLY
SCH (S)	SCHIST (OS)
SD	SAND
SDY	SANDY
SH	SHALE
SI	SILT
SIS	SILTSTONE
SIY	SILTY
SL	SLIGHT (LY)
SLCES	SILICEOUS
SLICK.	SLICKENSIDE
SML	SMALL
SO	SOFT
SOL	SOLUTION (ED) (ING)
SPG	SPECIFIC GRAVITY
SPT	STANDARD PENETRATION TEST
SPT	STANDARD SPLITSPOON
SS	SANDSTONE
ST	STRAIN (ED) (ING)
STF	STIFF
STR	STRUCTURE
STRG	STRINGER
STYL	STYLOLITE (OLITIC)
SUR	SURFACED
T.F.R.	TOP OF FIRM ROCK
T.O.R.	TOP OF ROCK
T.S.R.	TOP OF SOUND ROCK
TEXT.	TEXTURE
THK	THICK
THN	THIN
TI	TIGHT
TN	TAN (NISH)
TR	TRACE
TRP	TRIPOLI

ABBREVIATIONS

UD	UNDISTUBED
UL	UNACCOUNTABLE LOSS
UNACC	UNACCOUNTABLE
UNWEA	UNWEATHERED
V/	VERY
VERT	VERTICAL
VGY	VUGGY
W.C.	WATER CONTENT
W.L.	WATER LEVEL
W/	WITH
W/H	WEIGHT OF HAMMER
W/R	WEIGHT OF ROD
WD	WOOD
WEA	WEATHERED
WG	WEIGH
WHT	WHITE
X-BDD	CROSS-BEDDED
XL	CRYSTAL
XLN	CYRSTALLINE
YEL	YELLOW

Project I.D. **MSE00180** Boring Designation **T7HE-1-22**

DRILLING LOG	**DIVISION** South Atlantic	**INSTALLATION** Mobile District	**SHEET** 1 **OF** 3 **SHEETS**

PROJECT Hangar Addition and Egress Building			**LAT/LONG COORDINATES** LAT = 33.629134° LONG = -88.439811°	
			STATE PLANE COORDINATES X = 1,104,036 Y = 1,502,237	
DATE OF BORING	***STARTED*** 03-20-23	***COMPLETED*** 03-20-23	**COORDINATE SYSTEM/DATUM/UNITS** State Plane - MS East - U.S. Survey Ft.	***HORIZ.*** NAD83 / ***VERT.*** NAVD88
DRILLING AGENCY Corps of Engineers - CESAM			**ELEVATIONS**	***TOP OF BORING*** 204.0 Feet / ***GROUND WATER*** 198.4 Feet
NAME & TITLE OF FIELD INSPECTOR Wes Stringfellow, Geotechnical Engineer		**NAME OF DRILLER** Eddie Woods	**MANUFACTURER'S DESIGNATION OF DRILL** CME-75	☒ **AUTO HAMMER** ☐ **MANUAL HAMMER**
DIRECTION OF BORING ☒ **VERTICAL** ☐ **INCLINED**	**DEG. FROM VERTICAL**	**BEARING**	**SIZE AND TYPE OF BIT** See Remarks	
THICKNESS OF OVERBURDEN N/A			**TOTAL NUMBER CORE BOXES** 0	
DEPTH TO TOP OF ROCK N/A			**TOTAL SAMPLES** ***DISTURBED*** 16	***UNDISTURBED (UD)*** 0
TOTAL DEPTH OF BORING 24.0 Feet			**TOTAL RECOVERY FOR BORING** 96 %	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
204.0	0.0									
			(SP-SM) SAND, poorly-graded with silt, loose, mostly fine-grained sand-sized quartz, some silt, moist, brown	93	1		SPT Sampler		1 5 8	13
				93	2		SPT Sampler		10 12 13	25
200.6	3.4									
			(SC) SAND, clayey, loose, mostly fine-grained sand-sized quartz, some clay, reddish orange	100	3		SPT Sampler		4 3 2	5
199.2	4.8									
			(SM) SAND, silty, very loose, mostly fine-grained sand-sized quartz, some silt, wet, light gray	100	4		SPT Sampler		WH 1 3	4
				100	5		SPT Sampler		7 2 1	3
				93	6		SPT Sampler		1 WH 2	2
194.3	9.7			100	7		SPT Sampler		6 11	
			(SP) SAND, poorly-graded, medium, mostly							

DRILLING LOG (Cont. Sheet)	**INSTALLATION** Mobile District		**SHEET** 2 **OF** 3 **SHEETS**
PROJECT Hangar Addition and Egress Building	**COORDINATE SYSTEM/DATUM** State Plane - MS East - U.S. Survey Ft.	**HORIZONTAL** NAD83	**VERTICAL** NAVD88
LOCATION COORDINATES X = 1,104,036 Y = 1,502,237	**ELEVATION TOP OF BORING** 204.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
			fine-grained sand-sized quartz, few silt, moist	100	7		SPT Sampler		15	26
			At El. 193.4 Ft., loose, mostly fine-grained sand-sized quartz, some gravel, few silt, wet	100	8		SPT Sampler		21 23 25	48
				100	9		SPT Sampler		8 10 9	19
				100	10		SPT Sampler		28 33 34	67
188.8	15.2		(GW) GRAVEL, well-graded, mostly coarse gravel-sized gravel, some medium-grained sand-sized quartz, trace silt, orange brown	100	11		SPT Sampler		23 30 27	57
				87	12		SPT Sampler		15 19 16	35
				93	13		SPT Sampler		10 8 8	16
183.4	20.6			93	14		SPT Sampler		6 10 7	17
			(ML) SILT, inorganic-L, loose, mostly silt, few fine to medium-grained sand-sized quartz, moist, red orange							
			At El. 182.6 Ft., medium, mostly silt, few fine to medium-grained sand-sized quartz, gray	100	15		SPT Sampler		7 8 14	22
				87	16		SPT Sampler		11 9	22

DRILLING LOG (Cont. Sheet)

INSTALLATION Mobile District			**SHEET** 3 **OF** 3 **SHEETS**
PROJECT Hangar Addition and Egress Building	**COORDINATE SYSTEM/DATUM** State Plane - MS East - U.S. Survey Ft.	**HORIZONTAL** NAD83	**VERTICAL** NAVD88
LOCATION COORDINATES X = 1,104,036 Y = 1,502,237	**ELEVATION TOP OF BORING** 204.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
180.0	24.0			87	16		SPT Sampler		13 13	

NOTES:

1. Soils are field visually classified in accordance with the Unified Soils Classification System.

2. Borehole grouted with 3 bags of Portland cement.

3. Borehole coordinates obtained using handheld GPS.

4. Borehole elevations estimated from GoogleEarth.

140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).

24 25 26 27 28 29 30 31 32 33 34 35 36 37

Project I.D. **MSE00180** Boring Designation **T7HE-2-22**

DRILLING LOG	**DIVISION** South Atlantic	**INSTALLATION** Mobile District	**SHEET** 1 **OF** 3 **SHEETS**

PROJECT Hangar Addition and Egress Building		**LAT/LONG COORDINATES** LAT = 33.629030° LONG = -88.439771°	
		STATE PLANE COORDINATES X = 1,104,049 Y = 1,502,199	
DATE OF BORING	***STARTED*** 03-20-23 / ***COMPLETED*** 03-20-23	**COORDINATE SYSTEM/DATUM/UNITS** State Plane - MS East - U.S. Survey Ft.	***HORIZ.*** NAD83 / ***VERT.*** NAVD88
DRILLING AGENCY Corps of Engineers - CESAM		**ELEVATIONS**	***TOP OF BORING*** 204.0 Feet / ***GROUND WATER*** 200.9 Feet
NAME & TITLE OF FIELD INSPECTOR Wes Stringfellow, Geotechnical Engineer	**NAME OF DRILLER** Eddie Woods	**MANUFACTURER'S DESIGNATION OF DRILL** CME-75	☒ **AUTO HAMMER** ☐ **MANUAL HAMMER**
DIRECTION OF BORING ☒ VERTICAL ☐ INCLINED	**DEG. FROM VERTICAL** / **BEARING**	**SIZE AND TYPE OF BIT** See Remarks	
THICKNESS OF OVERBURDEN N/A		**TOTAL NUMBER CORE BOXES** 0	
DEPTH TO TOP OF ROCK N/A		**TOTAL SAMPLES** ***DISTURBED*** 16	***UNDISTURBED (UD)*** 0
TOTAL DEPTH OF BORING 24.0 Feet		**TOTAL RECOVERY FOR BORING** 97 %	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
204.0	0.0									
			(SC) SAND, clayey, soft consistency, mostly fine-grained sand-sized quartz, some clay, moist, brown	93	1		SPT Sampler		1 2 4	6
			At El. 202.0 Ft., medium consistency, red orange	93	2		SPT Sampler		4 7 8	15
				100	3		SPT Sampler		2 2 1	3
199.5	4.5		(ML) SILT, inorganic-L, soft consistency, mostly silt, few fine-grained sand-sized quartz, gray	100	4		SPT Sampler		1 1 2	3
				100	5		SPT Sampler		7 24 17	41
195.8	8.2		(SM) SAND, silty, very stiff consistency, mostly silt, few gravel, light gray	100	6		SPT Sampler		3 9 50/0.4'	59+
							Advanced Boring			
				100	7		SPT Sampler		22 39	

DRILLING LOG (Cont. Sheet)	**INSTALLATION** Mobile District		**SHEET** 2 **OF** 3 **SHEETS**
PROJECT Hangar Addition and Egress Building	**COORDINATE SYSTEM/DATUM** State Plane - MS East - U.S. Survey Ft.	**HORIZONTAL** NAD83	**VERTICAL** NAVD88
LOCATION COORDINATES X = 1,104,049 Y = 1,502,199	**ELEVATION TOP OF BORING** 204.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
193.4	10.6			100	7		SPT Sampler		40	79
			(SP) SAND, poorly-graded, medium, mostly fine-grained sand-sized quartz, some gravel, wet, lght gray	100	8		SPT Sampler		34 27 32	59
				100	9		SPT Sampler		21 33 50	83
189.0	15.0			100	10		SPT Sampler		13 23 16	39
			(GW) GRAVEL, well-graded, mostly coarse gravel-sized gravel, some fine-grained sand-sized quartz, light brown	100	11		SPT Sampler		18 19 13	32
				87	12		SPT Sampler		10 15 19	34
184.7	19.3			93	13		SPT Sampler		12 19 9	28
183.2	20.8		(CL) CLAY, lean, stiff consistency, mostly clay, few fine-grained sand-sized quartz, moist, red orange	93	14		SPT Sampler		10 10 12	22
▽			(ML) SILT, inorganic-L, stiff consistency, mostly silt, few fine-grained sand-sized quartz, gray At El. 183.0 Ft., stiff consistency, mostly silt, little gravel, light brown	100	15		SPT Sampler		3 8 14	22
			At El. 181.5 Ft., stiff consistency, mostly silt, few fine-grained sand-sized quartz, gray	87	16		SPT Sampler		5 8	19

DRILLING LOG (Cont. Sheet)	**INSTALLATION** Mobile District		**SHEET** 3 **OF** 3 **SHEETS**
PROJECT Hangar Addition and Egress Building	**COORDINATE SYSTEM/DATUM** State Plane - MS East - U.S. Survey Ft.	**HORIZONTAL** NAD83	**VERTICAL** NAVD88
LOCATION COORDINATES X = 1,104,049 Y = 1,502,199	**ELEVATION TOP OF BORING** 204.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
180.0	24.0			87	16		SPT Sampler		11 11	
			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Borehole grouted with 3 bags of Portland cement. 3. Borehole coordinates obtained using handheld GPS. 4. Borehole elevations estimated from GoogleEarth.				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

Project I.D. **MSE00180** Boring Designation **T7HE-3-22**

DRILLING LOG	**DIVISION** South Atlantic	**INSTALLATION** Mobile District	**SHEET** 1 **OF** 2 **SHEETS**

PROJECT Hangar Addition and Egress Building		**LAT/LONG COORDINATES** LAT = 33.628794° LONG = -88.439637°	
		STATE PLANE COORDINATES X = 1,104,090 Y = 1,502,113	
DATE OF BORING	***STARTED*** 03-16-23 / ***COMPLETED*** 03-16-23	**COORDINATE SYSTEM/DATUM/UNITS** State Plane - MS East - U.S. Survey Ft.	***HORIZ.*** NAD83 / ***VERT.*** NAVD88
DRILLING AGENCY Corps of Engineers - CESAM		**ELEVATIONS**	***TOP OF BORING*** 204.0 Feet / ***GROUND WATER*** 200.8 Feet
NAME & TITLE OF FIELD INSPECTOR Wes Stringfellow, Geotechnical Engineer	**NAME OF DRILLER** Eddie Woods	**MANUFACTURER'S DESIGNATION OF DRILL** CME-75	☒ **AUTO HAMMER** ☐ **MANUAL HAMMER**
DIRECTION OF BORING ☒ **VERTICAL** ☐ **INCLINED**	**DEG. FROM VERTICAL** / **BEARING**	**SIZE AND TYPE OF BIT** See Remarks	
THICKNESS OF OVERBURDEN N/A		**TOTAL NUMBER CORE BOXES** 0	
DEPTH TO TOP OF ROCK N/A		**TOTAL SAMPLES** ***DISTURBED*** 10	***UNDISTURBED (UD)*** 0
TOTAL DEPTH OF BORING 15.0 Feet		**TOTAL RECOVERY FOR BORING** 98 %	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
204.0	0.0									
			(SC) SAND, clayey, soft consistency, loose, mostly fine-grained sand-sized quartz, some clay, moist, brown	100	1		SPT Sampler		1 2 4	6
			At El. 202.8 Ft., red orange	100	2		SPT Sampler		5 6 6	12
				87	3		SPT Sampler		3 2 2	4
199.1	4.9								WH	
			(ML-CL) medium plasticity, very soft consistency, mostly silt, some clay, gray	80	4		SPT Sampler		1 1	2
198.0	6.0									
			(SM) SAND, silty, very stiff consistency, mostly silt, some fine-grained sand-sized quartz	100	5		SPT Sampler		7 15 22	37
				100	6		SPT Sampler		20 18 40	58
195.0	9.0									
			(GW) GRAVEL, well-graded, loose, mostly gravel, some fine-grained sand-sized quartz, little silt	150	7		SPT Sampler		50/0.4"	
							Advanced Boring			

DRILLING LOG (Cont. Sheet)

INSTALLATION Mobile District			**SHEET** 2 **OF** 2 **SHEETS**
PROJECT Hangar Addition and Egress Building	**COORDINATE SYSTEM/DATUM** State Plane - MS East - U.S. Survey Ft.	**HORIZONTAL** NAD83	**VERTICAL** NAVD88
LOCATION COORDINATES X = 1,104,090 Y = 1,502,113	**ELEVATION TOP OF BORING** 204.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
							Advanced Boring			
			At El. 193.5 Ft., loose, mostly gravel, some fine to medium-grained quartz, wet	100	8		SPT Sampler		13 22 32	54
				100	9		SPT Sampler		11 20 19	39
				100	10		SPT Sampler		13 21 17	38
189.0	15.0									
			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Borehole grouted with 2 bags of Portland cement. 3. Borehole coordinates obtained using handheld GPS. 4. Borehole elevations estimated from GoogleEarth.				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

10 11 12 13 14 15 16 17 18 19 20 21 22 23

Project I.D. **MSE00180** Boring Designation **T7HE-4-22**

DRILLING LOG	**DIVISION** South Atlantic	**INSTALLATION** Mobile District	**SHEET** 1 **OF** 2 **SHEETS**

PROJECT
Hangar Addition and Egress Building

LAT/LONG COORDINATES LAT = 33.628673° LONG = -88.439841°

STATE PLANE COORDINATES X = 1,104,028 Y = 1,502,069

DATE OF BORING	***STARTED***	***COMPLETED***
	03-16-23	03-16-23

COORDINATE SYSTEM/DATUM/UNITS	***HORIZ.***	***VERT.***
State Plane - MS East - U.S. Survey Ft.	NAD83	NAVD88

DRILLING AGENCY Corps of Engineers - CESAM

ELEVATIONS

TOP OF BORING	***GROUND WATER***
204.0 Feet	200.9 Feet

NAME & TITLE OF FIELD INSPECTOR	**NAME OF DRILLER**
Wes Stringfellow, Geotechnical Engineer	Eddie Woods

MANUFACTURER'S DESIGNATION OF DRILL CME-75 ☒ **AUTO HAMMER** ☐ **MANUAL HAMMER**

DIRECTION OF BORING	**DEG. FROM VERTICAL**	**BEARING**
☒ **VERTICAL** ☐ **INCLINED**		

SIZE AND TYPE OF BIT See Remarks

THICKNESS OF OVERBURDEN N/A

TOTAL NUMBER CORE BOXES 0

DEPTH TO TOP OF ROCK N/A

TOTAL SAMPLES ***DISTURBED*** 10 ***UNDISTURBED (UD)*** 0

TOTAL DEPTH OF BORING 15.0 Feet

TOTAL RECOVERY FOR BORING 81 %

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
204.0	0.0									
203.7	0.3		ASPHALT							
			(GP) GRAVEL, poorly-graded, loose, mostly gravel, some fine to coarse-grained quartz, light brown	67	1		SPT Sampler		1 6 6	12
			At El. 202.2 Ft., mostly gravel, some fine to coarse-grained quartz, little clay, red orange	87	2		SPT Sampler		7 5 4	9
			At El. 201.0 Ft., mostly gravel, some fine to coarse-grained quartz, moist, gray orange	20	3		SPT Sampler		3 2 4	6
			At El. 199.5 Ft., mostly gravel, some fine to coarse-grained quartz, red orange	73	4		SPT Sampler		4 2 2	4
197.3	6.7			47	5		SPT Sampler		WH WH 1	1
196.5	7.5		(GW) GRAVEL, well-graded, mostly gravel, some fine to coarse-grained quartz, little clay, wet							
			(ML) SILT, inorganic-L, very stiff consistency, mostly silt, little fine-grained sand-sized quartz, moist, gray	100	6		SPT Sampler		8 18 15	33
				167	7		SPT Sampler		14 50/0.4"	

SAM FORM 1836 AUG 2017

AFTER DRILLING ▼ *DURING DRILLING* ▽

(Continued)

DRILLING LOG (Cont. Sheet)	**INSTALLATION** Mobile District		**SHEET** 2 **OF** 2 **SHEETS**
PROJECT Hangar Addition and Egress Building	**COORDINATE SYSTEM/DATUM** State Plane - MS East - U.S. Survey Ft.	**HORIZONTAL** NAD83	**VERTICAL** NAVD88
LOCATION COORDINATES X = 1,104,028 Y = 1,502,069	**ELEVATION TOP OF BORING** 204.0 Ft.		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	REMARKS	BLOWS/ 0.5 FT.	N-VALUE
							Advanced Boring			
193.5	10.5						Advanced Boring			
			(GW) GRAVEL, well-graded, loose, mostly gravel, some fine to coarse-grained quartz, little fines, wet	150	8		SPT Sampler		50/0.4"	
							Advanced Boring			
			At El. 192.0 Ft., some fine to coarse-grained quartz	89	9		SPT Sampler		21 50/0.4"	
							Advanced Boring			
				100	10		SPT Sampler		29 20 40	60
189.0	15.0		At El. 189.0 Ft., moist, light brown				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

NOTES:

1. Soils are field visually classified in accordance with the Unified Soils Classification System.
2. Borehole grouted with 2 bags of Portland cement.
3. Borehole coordinates obtained using handheld GPS.
4. Borehole elevations estimated from GoogleEarth.