#### **CITY OF ALEXANDRIA OFFICIALS**

MAYOR ANDY SCHABELL

### **CITY CLERK**

STEPHANIE TARTER

#### **CITY COUNCIL MEMBERS**

JOE ANDERSON TOM BALDRIDGE STACEY GRAUS ROBERT STRONG KYLE SPARKS SUSAN VANLANDINGHAM

**CITY ATTORNEY** 

MIKE DUNCAN

#### PUBLIC WORKS DIRECTOR

DOUG DEJACO

#### **GENERAL NOTES**

- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. THE LATEST EDITION OF THE CITY OF ALEXANDRIA SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- 2. EXPANSION MATERIAL SHALL BE 1" THICK FLEXIBLE FOAM MATERIAL, SUCH AS CERAMAR BY W.R. ED EQUAL, INSTALLED IN AREAS OF CONCRETE WALK, DRIVES OR CURB/GUTTER ONLY AT THE FOLLOWING:
- A. AT ALL FIXED OBJECTS (I.E. UTILITY COVERS, VALVES, MANHOLES, ETC.)
- B. AT ALL RIGID STRUCTURES (I.E. DRIVES, CURBS, STEPS, ETC.) PAYMENT FOR THIS ITEM AND ZIP STRIPS INCLUDED IN THE PERTINENT CONCRETE PAVEMENT UNIT PRICE.
- C. AT ALL STREET INTERSECTIONS AT THE POINT OF CURVATURE OF THE TURNING RADII ENTERING THE INTERSECTION.
- D. NO CONCRETE SHALL BE LEFT ABOVE THE EXPANSION MATERIAL OR ACROSS THE JOINT AT ANY POINT. ANY CONCRETE SPANNING THE ENDS OF THE JOINT NEXT TO THE FORMS SHALL BE CAREFULLY CUT AWAY AFTER THE FORMS ARE REMOVED. BEFORE THE PAVEMENT IS OPENED TO TRAFFIC, THE GROOVE ABOVE THE EXPANSION JOINT MATERIAL SHALL BE CLEANED AND SEALED WITH JOINT SEALING MATERIAL.
- 3. WORK SHALL BE SCHEDULED DURING DRIER WEATHER MONTHS AND SHALL BE SUBSTANTIALLY COMPLETE NO LATER THAN AUGUST 31, 2024.
- 4. DOWNSPOUT AND UNDERDRAIN CONSTRUCTION SHALL MEET THESE AND THE LATEST SPECIFICATION OF THE CITY OF ALEXANDRIA SUBDIVISION REGULATIONS, SD-1 REGULATIONS AND STANDARD DRAWINGS, AND DETAILS SHOWN ON THIS PLAN. BEDDING, BACKFILLING, JOINTS, EXCAVATION AND INSTALLATION SHALL BE INCLUDED IN THE COST PER FOOT OF PIPE. STORM SEWER, DOWNSPOUT AND UNDERDRAIN PIPE MATERIAL SHALL HAVE A MANNING'S "N" VALUE OF 0.013 OR LESS (UNLESS OTHERWISE SHOWN) AND BE RIGID / SMOOTH INTERIOR WALLED PVC SDR-35 PIPE, RIBBED PVC PIPE, A-2000 PVC PIPE, UNLESS OTHERWISE SHOWN.
- 5. ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.
- 6. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND.
- 7. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM PLANNING DEVELOPMENT SERVICE OF NORTHERN KENTUCKY G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY.
- 8. THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY THE CITY OF ALEXANDRIA.
- 9. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.
- 10. THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- 11. RELOCATION OR REINSTALLATION OF EXISTING MAIL BOXES, FENCES, PRIVATE LANDSCAPE LIGHTS, PRIVATE SIGNS, STREET SIGNS, RESTORATION OF LANDSCAPING AND TREATMENT OF EXISTING WALLS WHERE A PORTION HAS BEEN REMOVED SHALL BE INCIDENTAL TO CLEARING AND GRUBBING.

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- TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
- 13. 36" AND SMALLER STORM SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) SMOOTH WALL PIPE PER ASTM D3034, POLYVINYL CHLORIDE (PVC) PROFILE WALL PER ASTM F794 OR F945 OR HIGH DENSITY POLYETHYLENE (HDPE) PER AASHTO M294. JOINTS FOR PVC PIPE SHALL BE GASKET, BELL AND SPIGOT, PUSH ON TYPES PER ASTM D3212; HDPE PIPE SHALL BE JOINED USING AN INLINE BELL AND SPIGOT JOINT PER AASHTO M252, AASHTO M294 OR ASTM F2306. ALL JOINTS SHALL BE SOIL TIGHT. ALL GASKETS SHALL MEET ASTM F477.
- 14. FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION.
- 15. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL CAMPBELL COUNTY AND THE CITY OF ALEXANDRIA PERMITS HAVE BEEN ISSUED AS REQUIRED.
- 16. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE CITY OF ALEXANDRIA. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS.
- 17. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN SANITARY SEWER AND STORM SEWER FLOW THROUGH THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.
- 18. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL.

### MAINTENANCE OF TRAFFIC NOTES

ACCESS TO THE SITE SHALL BE PROVIDED BY THE GRAVEL DRIVE THAT STARTS AT THE ALEXANDRIA COMMUNITY PARK NORTHERN PARKING LOT. NOTE THAT THE GRAVEL DRIVE IS OFF LIMITS FOR LOCAL VEHICULAR USE, HOWEVER THE PORTION THAT RUNS ALONG THE UPPER POND OFTEN HAS PEDESTRIAN TRAFFIC. IF ADDITIONAL ROOM IS NEEDED FOR THE CONTRACTOR'S VEHICLES TO TURN TO AND FROM THE GRAVEL DRIVE AND PARKING LOT, THE CONTRACTOR SHALL BE ALLOWED TO BLOCK OFF PARKING SPACES TO ALLOW FOR THE TURNING MOVEMENTS. THE COST FOR ALL MATERIAL AND LABOR REQUIRED TO BLOCK OFF THE PARKING SPACES SHALL BE INCIDENTAL TO THE CONTRACT.

# CITY OF ALEXANDRIA CAMPBELL COUNTY, KENTUCKY **ALEXANDRIA LOWER** DAM IMPROVEMENTS



# VICINITY MAP

# **K.T.C SPECIFICATIONS**

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND CITY OF FORT WRIGHT ENGINEERING DEPARTMENT REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

### SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON PLANNING DEVELOPMENT SERVICE OF NORTHERN KENTUCKY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.

# SOURCE OF TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A COMBINATION OF FIELD SURVEY BY CT CONSULTANTS IN 2020, FIELD SURVEY BY CLS IN 2008, AND PLANNING DEVELOPMENT SERVICE OF NORTHERN KENTUCKY G.I.S. MAPPING

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#### CONSTRUCTION NOTES

- 1 REMOVE/SAFELOAD EXISTING STORM STRUCTURE AND APPROXIMATELY 320 LF OF 36" STORM SEWER.
- 2 REMOVE ABANDONED SANITARY SEWER AS NEEDED. CAP SANITARY SEWER A MINIMUM OF 3 FEET BELOW PROPOSED GRADING AT EACH END.
- 3 REMOVE TREES AS NEEDED. COST SHALL BE INCLUDED AS PART OF CLEARING AND GRUBBING.
- 4 PROPERLY COMPACT FILL MATERIAL PRIOR TO INSTALLATION OF THE PROPOSED STONE ACCESS DRIVE.
- 5 INSTALL FLEXAMAT STANDARD PER MANUFACTURES INSTRUCTIONS.
- 6 EXCAVATE ACCUMULATED SEDIMENT FROM THE BOTTOM OF THE BASIN WITH 50 FT OF THE EXISTING INLET. THE GRADE SURROUNDING THE INLET SHALL BE SET TO THE MINIMUM OPENING ELEVATION FOR THE STRUCTURE.

#### HATCH LEGEND



SPILLWAY CHANNEL PROTECTION FLEXAMAT STANDARD

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#### EROSION CONTROL LEGEND



(IP) INLET PROTECTION (SEE DETAIL) (RCD) ROCK CHECK DAM (SEE DETAIL) SF SILT FENCE (SEE DETAIL)

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#### HATCH LEGEND



SPILLWAY CHANNEL PROTECTION FLEXAMAT STANDARD

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#### EROSION CONTROL LEGEND



IP INLET PROTECTION (SEE DETAIL) RCD ROCK CHECK DAM (SEE DETAIL) SF SILT FENCE (SEE DETAIL)







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SPILLWAY CHANNEL PROTECTION FLEXAMAT STANDARD

 Image: Image:

#### EROSION CONTROL LEGEND



(IP) INLET PROTECTION (SEE DETAIL) RCD ROCK CHECK DAM (SEE DETAIL) SF SILT FENCE (SEE DETAIL)

ALEXANDRIA LOWER DAM     Scale: As NOTED     NO     REVISION     Date       Rate Scale: As NOTED     Bate: 02/01/2024     No     Revision     Date       Improvements     Date: 02/01/2024     No     No     No       CITY OF ALEXANDRIA     DesioneD BY: RSI     No     No     No       Date: 02/01/2024     DesioneD BY: RSI     No     No     No       PLAN SHET 3     Drawn BY: RSI     No     No     No       OVERALL SITE     CHECKED BY: MBN     No     No     No		PRO 19 DRAW		T NC	D: <b>)</b> ME	
Scale: As NOTED       No       Revision       Date         Date: 02/01/2024       I       I       I       I         Date: 02/01/2024       I       I       I       I       I         Date: 02/01/2024       I       I       I       I       I       I       I         Deside BY: REI       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I       I </th <th>ALEXANDRIA LOWER DAM</th> <th>CITY OF ALEXANDRIA</th> <th>CAMPBELL COUNTY, KENTUCKY</th> <th>PI AN SHEFT 3</th> <th>OVERALL SITE</th> <th></th>	ALEXANDRIA LOWER DAM	CITY OF ALEXANDRIA	CAMPBELL COUNTY, KENTUCKY	PI AN SHEFT 3	OVERALL SITE	
NO DATE CON LATE ACTION	SCALE: AS NOTED	<b>DATE</b> : 02/01/2024	DESIGNED BY: RSEI			CHECKED BY: MBRU
DATE DATE TOTAL CONSULTATED ACVISOR TOTAL CONSULTATED ACVISOR ACCOMPANY CONSULTATION Planners Planners	NO REVISION					
your trusted advisor consultants engineers architects planners	DATE					
			your trusted advisor	architects	planners	









SCALE: 1" = 20'

		A	<b>Universal Engine</b>	ering	Science	es Com	pany							
		L	OG OF TEST E	ORIN	G									
CLIEN PROJE	т: City of Alexandria ст: Alexandria Commu	nity Park Lower Dan	n Spillway				BORING	9 #: CT #:	B-10 J039	)1 9543.02	CLIE	INT:_	City of Alexandria T: Alexandria Comn	าunity Pa
LOCA	Alexandria, KY	n on Boring Plan					PAGE #	:	1 of	1	LOC	ATIC	Alexandria, KY	wn on E
ELEV	COLOR, MOISTURE, I	ENSITY, PLASTICITY, SI DESCRIPTION	IZE, PROPORTIONS	Strata Depth (feet)	Depth Scale (feet)	ondition Sample Jumber	Blows/6	e (in)	overy	HP (tsf)	ELE	EV.	COLOR, MOISTURE	, DENSITY DES
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706.8	Brown and gray moist very (fill).	stiff LEAN CLAY, trace s	shale, trace hairlike roots	2.5			ST	24	100	3.5	704	1.8	Interbedded gray mois medium strong to very s	extreme rong LIM
	Interbedded brown trace o SHALE and gray medium s	ive brown moist extremely strong to very strong LIME:	y weak highly weathered STONE (bedrock).		5-	3	SS 11-8-8	16	89		702	2.9		
702.3				7.0									Bottom of test boring at	3.9 feet.
	Interbedded olive brown m medium strong to very stro	noist extremely weak weat	thered SHALE and gray ).	,		1 4	SS 29-18-1	8 12	67					
699.8	Interbedded gray moist e medium strong to very stro	extremely weak unweathing LIMESTONE (bedrock)	ered SHALE and gray ).	9.5	10		SS 22-8-50	3" 12	80					
698.0	Dettern of test bering at 11	2 fact		11.3										
		.3 feet.												
					15-									
					20-									
					25-									
Datum	NAVD 88	Hammer Weight:1	40 lb. Hole D	ameter:_	8	in.	Drill Rig:_	CME-	-55 TD-	-2	Datur	 m:	NAVD 88	Harr
Surfac Date S	e Elevation: 709.3 ft. tarted: 12/22/2021	_ Hammer Drop: <u>3</u> _ Pipe Size: <u>2</u>	2 in. O.D. Boring	ore Diam Method:_	eter: <u></u> H	SA-3.25	Foreman Engineer	L. Kei Andre	mmete ew C. C	asto	Surfa Date	ace E Star	Elevation: 706.8 π. rted: 12/22/202	Ham 1 Pipe
Date C B(	ompleted: 12/22/2021 DRING METHOD	- SAMPLE TYPE	SAMP	E COND	ITIONS		GF	OUNDWA	TER DEF	РТН	Date	Com BOR	npleted: 12/22/202	<u> </u>
HSA = CFA = DC =	Hollow Stem Augers Continuous Flight Augers Driving Casing	PC = Pavement Core CA = Continuous Fligl SS = Split-Spoon San	ht Auger I = nple U=	Disintegra Intact Undisturk	ated ed		First Noted_ At Completion	n D	lone )ry		HSA CFA DC	= Ho = Co = Di	ollow Stem Augers ontinuous Flight Augers riving Casing	PC CA SS
MD =	Mud Drilling	RC = Rock Core	L =	Lost			Backfilled	Ir	nmediate	ely	MD	= 1VI	lud Drilling	RC
	SPT = Standard Penetratio	on Test - Driving 2" O.E	D. Sampler 18" with 1	40-Pou	nd Hami	ner Falli	ng 30"; Cou	nt Made a	at 6" Inte	ervals		* SF	PT = Standard Penetra	
	SPT = Standard Penetratio	on Test - Driving 2" O.E	D. Sampler 18" with 1	40-Pou	nd Hami		ng 30"; Cour	nt Made a	at 6" Inte	ervals		* SF	PT = Standard Penetra	
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CLIEN PROJE	SPT = Standard Penetration T: City of Alexandria CT: <u>Alexandria Commu</u> <u>Alexandria, KY</u> IN OF BORING: <u>As show</u>	on Test - Driving 2" O.I Contraction of the second se	D. Sampler 18" with 1 GEOTEC A Universal Engine OG OF TEST E n Spillway	40-Pou	NO Hami	LOC Es Com	pany BORINA PROJE PAGE	tt Made a	B-10 J039 1 of	95 9543.02 1	CLIE PRO. LOCA	* SF	PT = Standard Penetra City of Alexandria <u>τ: Alexandria Comn</u> <u>Alexandria, KY</u> DN OF BORING: <u>As sho</u>	
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CLIEN PROJE LOCA ELEV 707.0 VZ06.6 703.0 700.0 695.5	SPT = Standard Penetration T:City of Alexandria CT:Alexandria CommuAlexandria, KY TION OF BORING: _AS Show COLOR, MOISTURE, IT TOPSOIL (2 inches) Brown moist stiff to very st (colluvium).  Brown moist very stiff FAT Interbedded brown moist e medium strong to very stro Bottom of test boring at 11	on Test - Driving 2" O.I Test - Driving 2" O.I I I I I I I I I I I I I I	D. Sampler 18" with 1  GECOTEC  Universal Engine  OG OF TEST E  n Spillway  IZE, PROPORTIONS  ILE fragments, trace roots ents (colluvium).  athered SHALE and gray).  I40 Ib. Hole D  30 in. Rock C  140 Ib. Boring  SAMP	40-Pou	Depth G Science G Depth G Scale (feet) G G 10 10 10 10 10 10 10 10 10 10 10 10 10	in.	BORINI PROJE PAGE 1 Biows6 SS 4-4-3 SS 4-4-3 SS 4-4-3 SS 4-4-3 SS 16-45-4 SS 16-45-45-4 SS 16-45-45-45-45-45-45-45-45-45-45-45-45-45	at Made a          at Made a         at Made a         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c<	B-10 J039 1 of (%) 89 100 100 56 55 55 TD- mmete ew C. C	2.0 4.0 4.0 4.0 2.0 4.0 4.0 4.0	CLIE PRO. LOCA ELE 702 700 696	* SF	City of Alexandria City of Alexandria Color, Moisture Color, Moisture TOPSOIL (2 inches) TOPSOIL (2 inches) Brown moist medium sti Interbedded brown moist medium strong to very s Interbedded olive brown medium strong to very s Bottom of test boring at Bottom of test boring at Elevation: 702.4 ft. ted: 12/22/202 MAVD 88 Elevation: 702.4 ft.	tion Tes ation Tes a

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LIENT: ROJEC		6 AL					Ŭ						<b>_</b> .	-
ROJEC		of Alexandria	aity Dark Lawer F	om Spillwov							BORING #	:	B-10	3
	T: Alexa	andria Commun	nity Park Lower L	am Spillway							PROJECT	#:	1 of	<u>543.02</u> 1
саті		RING: As show	n on Boring Plan								PAGE #:		1.01	<u> </u>
EV	COL	or, Moisture, D	ENSITY, PLASTICITY	Y, SIZE, PROPORTIO	NS	Strata Depth	Depth Scale	nple dition	nple nber	nple pe	SPT* Blows/6"	Reco	overy	HP
11.7			Ground Surface			(feet) 0.0	(feet)	San Conc	San Nun	San Ty	Rock Core RQD (%)	(in.)	(%)	(tsf)
1.4/	TOPSOI	L (3 inches)	stiff I FAN CLAY	trace shale and lim	estone	\_0.3_/	-0-	1	1A 1B	SS	3-5-4	18	100	2.0
	fragment	ts, trace roots (collu	uvium).		0010110			U	2	ST		0	0	
)7.2						4.5			3	SS	10-7-50/5"	7	41	4.0
7 14	Brown, t fragment	trace gray moist ve ts (colluvium).	ery stiff LEAN CLAY	, trace shale and lime	estone	7.0	5-	1	4	SS	13-6-11	13	72	4.5+
<u>14.7</u>	Interbed	ded olive brown, tra	ace gray moist extrem very strong LIMESTO	ely weak weathered S NE (bedrock).	HALE	7.0			5	SS	8-11-11	18	100	
							10-		6	SS	15-13-41	13	72	
	Bottom o	of test boring at 11.	5 feet.											
atum:_	Ν	AVD 88	Hammer Weight:	140 lb. ⊦	lole Dian	neter:	50	8 in.			Drill Rig:	CME-	55 TD-	2
rface	Elevation:	711.7 ft.	Hammer Drop:	30 in. F	Rock Con	e Diam	eter:				Foreman:	L. Ken	nmete	<u>r</u>
e Sta	rted:	12/22/2021	Pipe Size:	2 in. O.D. E	Boring Me	ethod:_		HSA	-3.2	5	Engineer:	Andre	w C. C	asto

	GEOTE A Universal Engin				D		ly			
	LOG OF TEST	BORIN	G						B_10	17
PROJEC	τ· Alexandria Community Park Lower Dam Spillway						PROJECT	: #·	J039	) 543.02
I NOULU	Alexandria, KY						PAGE #:		1 of	1
LOCATI	ON OF BORING: As shown on Boring Plan									
	COLOR, MOISTURE, DENSITY, PLASTICITY, SIZE, PROPORTIONS	Strata	Depth	ple tion	ple ber	ple e	SPT* Blows/6"	Reco	overy	ць
ELEV.	DESCRIPTION	(feet)	(feet)	Sam	Sam	Sam	Rock Core	(in.)	(%)	(tsf)
701.5 \701.2/1	_Ground Surface	0.0	0-				RQD (%)	(,	(,,,,	
	Brown moist very stiff FAT CLAY, trace shale and limestone fragments, tra	ace	-		1A 1B	SS	3-4-6	18	100	4.0
698.5		3.0	-	U	2	ST		16	95	3.5
	Interbedded brown moist extremely weak highly weathered SHALE and gr medium strong to very strong LIMESTONE (bedrock).	ray	5-		3	SS	66-26-30	4	22	
694.5			-							
	Interbedded olive brown to brown moist extremely weak weathered SHA and gray medium strong to very strong LIMESTONE (bedrock).	LE	-	1	4	SS	29-20-36	13	72	
600.2		11 3	10-		5	SS	17-24-50/3"	15	100	
	Bottom of test boring at 11.3 feet.									
Datum:	NAVD 88 Hammer Weight: 140 lb. Hole	Diameter:		8 in.			Drill Rig:	CME-	55 TD	-2
Surface	Elevation: / U1.5 Π. Hammer Drop: 30 in. Rock	Core Diam	eter:		2.0		Foreman:	L. Ker	nmete	
Date Sta	rted: 12/22/2U21 Pipe Size: 2 In. U.D. Borir	ng Method:_		15A	-3.2	0	Engineer:	Andre	w C. C	asio
Date Cor BOF HSA = H CFA = C DC = D MD = M * SI	Impleted:       IZIZZIZUZ I         KING METHOD       SAMPLE TYPE       SAM         Iollow Stem Augers       PC = Pavement Core       Distribution         iontinuous Flight Augers       CA = Continuous Flight Auger       I = Standard         iving Casing       SS = Split-Spoon Sample       Us         iud Drilling       ST = Shelby Tube       L = RC = Rock Core         PT = Standard Penetration       Test - Driving 2" Q.D. Sampler 18" with	PLE COND = Disintegra = Intact = Undisturb = Lost 0.140-Pour	ITIONS ated ed	nmer	Fall	Fir At Aft Ba	GROU st Noted Completion er ckfilled 0": Count M	INDWAI No Di  Im	TER DEI	РТН 

CLIENT	City o	f Alexan
PROJEC	T: Alexa	ndria Co
	Alexa	ndria, K
LOCATI	ON OF BO	RING: As
	COLO	DR, MOIST
ELEV.		
708.0	TOPSOII	(3 inches
	Interbedd	led brown
706.0	and gray	medium st
704.7	medium	strong to ve
	Bottom o	f test borin
Datum:	N	AVD 88
- Surface	Elevation:	708.0 f
Date Sta	rted:	12/22/2
Date Co	mpleted:	12/22/2
BOF		IOD
HSA = H	Iollow Stem	Augers
	ontinuous	Flight Auge

DC = Driving Casing MD = Mud Drilling \* SPT = Standard Pene

unity Park Lower D	LOG OF TE	ST BC	DRIN	G			BORING # PROJECT	: #:	B-10 J039	4 543.02
wn on Boring Plan				1			PAGE #:_		1 of '	1
, DENSITY, PLASTICITY DESCRIPTION Ground Surface	y, size, proport	IONS	Strata Depth (feet) 0.0	Depth Scale (feet)	Sample Condition Sample	Sample Type	Blows/6" Rock Core RQD (%)	Reco (in.)	overy (%)	HP (tsf)
ray moist extremely we to very strong LIMESTO extremely weak unwe	ak highly weathered NE (bedrock). eathered SHALE a	SHALE	2.0	-	I 1/ 11	ss 3	3-4-7	12	67	
ong LIMESTONE (bedr	ock).		3.3		2	SS	21-50/3"	6	67	
				-						
				10-						
				-						
				15-						
				20-						
				-						
				25-						
				-						
Hammer Weight:	140 lb.	Hole Diar	neter:	30	8 in.		Drill Rig:	CME-	55 TD-	2
Hammer Drop: Pipe Size:	30 in. 2 in. O.D.	Rock Coi Boring M	re Diam ethod:	eter:	- - 	25	Foreman: Engineer:	L. Ken Andre	nmetei w C. C	r asto
BAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon	PE Core Flight Auger Sample	SAMPLE D = Di I = In U = Ui	E COND isintegra tact ndisturb	ITIONS ated ed		Fir At	GROL st Noted Completion_	JNDWAT No Dr	FER DEP one y	PTH
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core tion Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc	e COND isintegra tact ndisturb ost 0-Pour	ITIONS ated nd Han	nmer Fa	Fir At Ba alling 3	GROU st Noted Completion_ er ckfilled 0"; Count I	JNDWAT	ER DEP one y mediate	iventer in the second s
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core ion Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Un L = Lc	COND isintegra tact ndisturb ost 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir At Ba alling 3	GROU st Noted Completion er ckfilled 0"; Count I	JNDWAT No Dr Im Made at	ER DEP one y mediate	rvals
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core ion Test - Driving 2"	E Sore Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Un L = Lc	e COND isintegra tact ndisturb set 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir Aft Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT	ER DEP one y mediate c 6" Inte	IV I
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core on Test - Driving 2"	E Sore Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	e COND isintegra tact ndisturb set 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir At Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT Na Dr  Im Made at	ER DEP one y mediate 6" Inte	iv III
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core fon Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	COND isintegra tact ndisturb ost 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir At Ba Balling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT No Dr  Im Made at	ER DEP one y mediate c 6" Inte	rrH
- SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core on Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	e COND isintegra tact ndisturb ost 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir Atf Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT No Dr  Im Made at	ER DEP one y mediate	rrH
- SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core on Test - Driving 2"	E Sore Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	e COND isintegra tact ndisturb set 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir Aft Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT No Dr  Im Made at	ER DEP y mediate 6" Inte	rrH
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core n Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	COND isintegra tact ndisturb ost 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir At Ba Balling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT No Dr Im Made at	ER DEP one y mediate	rrH
SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core n Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	COND isintegra tact ndisturb ost 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir Atf Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT Na Dr  Im Made at	ER DEP one y mediate	rtH
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- SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core on Test - Driving 2"	E Sore Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	COND isintegra tact ndisturb ost 0-Pour	ind Han	nmer Fa	Fir Atf Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT No Dr Im Made at	reference in the second	rtH
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- SAMPLE TYP PC = Pavement C CA = Continuous SS = Split-Spoon ST = Shelby Tube RC = Rock Core on Test - Driving 2"	E Flight Auger Sample O.D. Sampler 18	SAMPLE D = Di I = In U = Ui L = Lc " with 14	COND isintegra tact ndisturb ost 0-Pour	ITIONS ated ed nd Han	nmer Fa	Fir Atfi Ba alling 3	GROL st Noted Completion_ er ckfilled 0"; Count I	JNDWAT	ER DEP y mediate	rrH

