BORING NO: **B-33**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 779.6	BORING STARTED: 6/7/2014	BORING COMPLETED: 6/7/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	779.6	0	Topsoil- 6 inches							
	779.1		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			12				3 - 3 - 5
	777.6		Fat Clay (CH) with chert fragments, very stiff, brown to dark brown, moist			14				12 - 16 - 20
	776.1		Weathered limestone			2				50/2
	775.3		Auger Refusal at 4.3 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-34**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 783.8	BORING STARTED: 6/7/2014	BORING COMPLETED: 6/7/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	783.8	0	Topsoil- 10 inches							
	783.0		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			18				2 - 3 - 4
	781.8		Fat Clay (CH) with chert fragments, very stiff, brown to dark brown, moist			16				4 - 8 - 11
	780.8		Weathered limestone							
	779.8		Auger Refusal at 4 feet							
		5								
		10								
		15								
		20								

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-35**

S&ME

TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 787.5	BORING STARTED: 6/7/2014	BORING COMPLETED: 6/7/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	787.5	0	Topsoil- 10 inches			14				2 - 2 - 3
	786.7		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			18				4 - 3 - 5
	784.5		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist			16				
						1				50/1
	782.4	5	Weathered limestone							
	779.7		Auger Refusal at 7.8 feet							
		10								
		15								
		20								

BORING NO: **B-36**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 788.9	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	788.9	0	Topsoil- 6 inches							
	788.4		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			18				1 - 2 - 4
						16				4 - 3 - 4
						4				3 - 2 - 4
		5								
	782.9		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist			16			>50	10 - 26 - 42
	780.7		Weathered limestone							
	780.2		Auger Refusal at 8.7 feet							
		10								
		15								
		20								

BORING NO: **B-37**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 793.5	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	793.5	0								
	793.1		Topsoil- 5 inches							
			Lean Clay (CL) with trace oxide nodules, soft, brown, moist			10			•	1 - 2 - 2
	791.5		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			12			•	4 - 7 - 11
	790.0									
	789.8		Weathered limestone							
			Auger Refusal at 3.7 feet / Begin Coring							
		5	Limestone, light gray, fine to medium grained							
			Water stained beds to 10 feet			50/60	47			
		10								
						60/60	63			
	779.8		Coring Terminated at 13.7 feet							
		15								
		20								

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-38**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 790.7	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	790.7	0	Topsoil- 2 inches							
	790.5		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12				2 - 2 - 3
	789.5		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			12				3 - 3 - 7
	787.2		Weathered limestone							
	786.7		Auger Refusal at 4 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-39**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 783.4	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	783.4	0	Topsoil- 2 inches							
	783.2		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			10				3 - 4 - 5
	782.4		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			8				9 - 50/3
	781.1		Weathered limestone							
	780.6		Auger Refusal at 2.8 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-40**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 781.2	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	781.2	0	Topsoil- 4 inches							
	780.9		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			4				2 - 3 - 3
						16				3 - 3 - 4
	777.2		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			18				5 - 5 - 9
		5								
	774.5		Weathered limestone			2				50/2
	773.5		Auger Refusal at 7.7 feet							
		10								
		15								
		20								

BORING NO: **B-41**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 787.4	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	787.4	0								
	787.1		Topsoil- 4 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			6			●	3 - 4 - 4
	785.9		Fat Clay (CH) with trace oxide nodules, firm to stiff, brown to dark brown, moist			16			●	4 - 4 - 4
	782.9	5	Weathered limestone			18			>>●	6 - 24 - 28
	780.9		Auger Refusal at 6.5 feet							
		10								
		15								
		20								

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-42**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 789.1	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	789.1	0	Topsoil- 2 inches							
	788.9		Lean Clay (CL) with trace oxide nodules, stiff to firm, brown, moist			12				4 - 4 - 5
	787.6		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			4				3 - 4 - 4
						18				5 - 9 - 31
		5								
						3				50/3
	782.3		Weathered limestone							
	781.6		Auger Refusal at 7.5 feet							
		10								
		15								
		20								

BORING NO: **B-43**

S&ME

TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 785.1	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	785.1	0	Topsoil- 2 inches							
	784.9		Lean Clay (CL) with trace oxide nodules, firm to stiff, brown, moist			12				4 - 4 - 3
						6				5 - 4 - 25
	782.6		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist							
	781.3		Weathered limestone							
	781.1		Auger Refusal at 4 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-44**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 774.1	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	774.1	0	Topsoil- 8 inches							
	773.4		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			12				4 - 5 - 6
	772.6		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			6				7 - 50/4
	771.7		Weathered limestone							
	771.0		Auger Refusal at 3.1 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-45**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 780.7	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N)	BLOWS /6"
	780.7	0	Topsoil- 10 inches			18				4 - 5 - 5
	779.9		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			18				4 - 4 - 6
	777.7		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			18				4 - 6 - 9
		5								
	774.7		Fat Clay (CH) with trace oxide nodules, firm to stiff, brown to dark brown, moist few weathered limestone pieces/floaters from 10 to 15 feet			18				4 - 4 - 4
		10				18				3 - 5 - 9
	765.7	15	Fat Clay (CH) with trace oxide nodules, soft, brown to dark brown, moist			16				5 - 4 - 2
		20				10				woh - 1 - 2
		25				6				1 - 1 - 1
		30				10				1 - 2 - 5
	749.7		Weathered limestone							
	748.5		Auger Refusal at 32.2 feet							
		35								
		40								

STANDARD PENETRATION RESISTANCE (N): 0, 10, 20, 30, 40, 50

BORING NO: **B-46**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 784.2	BORING STARTED: 6/8/2014	BORING COMPLETED: 6/8/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	784.2	0	Topsoil- 2 inches							
	784.0		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12			•	4 - 4 - 13
						3			•	50/4
	782.2		Weathered limestone							
	780.4		Auger Refusal at 3.8 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-47**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 787.5	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	787.5	0	Topsoil- 2 inches			5				11 - 50/3
	787.3		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist							
	786.7		Weathered limestone							
	786.6		Auger Refusal at 0.9 feet / Begin Coring							
			Limestone, light gray, fine to medium grained			43/50	44			
			Water stained with few thin clay seams to 6 feet							
		5								
						58/60	77			
	777.4	10	Coring Terminated at 10.1 feet							
		15								
		20								

BORING NO: **B-48**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 788.0	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	788.0	0	Topsoil- 2 inches			2				50/4
	787.8		Weathered limestone							
	787.5		Auger Refusal at 0.5 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-49**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 788.0	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	788.0	0	Topsoil- 2 inches							
	787.8		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			8			●	3 - 4 - 5
						10			●	5 - 5 - 8
	785.2		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist							
	784.3		Auger Refusal at 3.7 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-50**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 793.7	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	793.7	0	Topsoil- 5 inches							
	793.3		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			8				2 - 2 - 3
						8				2 - 3 - 5
	790.7		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist							
	789.6					3				50/3
	789.3		Weathered limestone							
		5	Auger Refusal at 4.4 feet / Begin Coring							
			Limestone, light gray, fine to medium grained							
			Water stained with few thin clay seams to 6 feet			55/60	55			
		10								
						60/60	80			
	779.3		Coring Terminated at 14.4 feet							
		15								
		20								

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-51**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 796.6	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	796.6	0	Topsoil- 4 inches							
	796.3		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			7				2 - 3 - 3
	794.4		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist			14				2 - 3 - 4
		5				18				10 - 19 - 15
	790.0		Weathered limestone			6				28 - 50/2
	789.2		Auger Refusal at 7.4 feet							
		10								
		15								
		20								

BORING NO: **B-52**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 792.0	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	792.0	0	Topsoil- 6 inches							
	791.5		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			10				3 - 3 - 3
	790.8		Fat Clay (CH) with trace oxide nodules, firm, brown to dark brown, moist			14				2 - 2 - 4
	790.0		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			0				3 - 4 - 6
		5				16				4 - 6 - 8
						12				6 - 13 - 50/1
	782.0	10	Weathered limestone							
	781.6		Auger Refusal at 10.4 feet							
		15								
		20								

BORING NO: **B-53**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 797.6	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	797.6	0	Topsoil- 8 inches							
	796.9		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12				3 - 4 - 3
						14				4 - 4 - 6
	794.6		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist							
		5				16				4 - 5 - 7
						12				8 - 50
	789.6		Weathered limestone							
	789.2		Auger Refusal at 8.4 feet							
		10								
		15								
		20								

BORING NO: **B-54**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 800.6	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) (0, 10, 20, 30, 40, 50)	BLOWS /6"
	800.6 / 800.4	0	Topsoil- 2 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12				3 - 2 - 3
						16				2 - 2 - 4
	796.6		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			16				3 - 4 - 7
		5				18				6 - 10 - 34
	792.6		Fat Clay (CH) with chert fragments, hard, brown to dark brown, moist			9				19 - 50/4
	790.6	10	Weathered limestone							
	789.4		Auger Refusal at 11.2 feet							
		15								
		20								

BORING NO: **B-55**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 799.0	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	799.0	0	Topsoil- 4 inches							
	798.7		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			8				2 - 3 - 2
						12				2 - 2 - 3
	796.0		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			18				5 - 6 - 10
		5								
	793.0		Weathered limestone							
	792.6		Auger Refusal at 6.4 feet							
		10								
		15								
		20								

BORING NO: **B-56**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 793.5	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	793.5 / 793.4	0	Topsoil- 1 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			6				4 - 4 - 3
	791.5		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			12				4 - 5 - 16
						2				50/2
	789.0 / 788.8	5	Weathered limestone Auger Refusal at 4.7 feet							
		10								
		15								
		20								

BORING NO: **B-57**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 789.5	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	789.5	0	Topsoil- 6 inches							
	789.0		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist			12				5 - 15 - 11
	787.9		Weathered limestone			0				50/3
	786.2		Auger Refusal at 3.3 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-58**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 786.6	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	786.6	0	Topsoil- 10 inches			12				3 - 18 - 50/1
	785.8		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist			2				50/2
	784.6		Weathered limestone							
	784.1		Auger Refusal at 2.5 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-59**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 788.7	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	788.7	0	Topsoil- 6 inches							
	788.2		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			7				3 - 3 - 4
						8				2 - 2 - 3
	785.2		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			13				3 - 5 - 6
		5								
	782.5		Weathered limestone							
	782.2		Auger Refusal at 6.5 feet							
		10								
		15								
		20								

BORING NO: **B-60**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 785.2	BORING STARTED: 6/9/2014	BORING COMPLETED: 6/9/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	785.2	0								
	784.8		Topsoil- 5 inches							
			Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			8				3 - 4 - 4
	783.2		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			8				3 - 5 - 6
						4				50/0.4
	780.8		Weathered limestone							
		5								
	779.5		Auger Refusal at 5.7 feet							
		10								
		15								
		20								

BORING NO: **B-61**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 788.4	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	788.4	0	Topsoil- 7 inches							
	787.8		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			10				3 - 4 - 4
						8				4 - 5 - 8
	784.9		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			18				4 - 7 - 10
		5								
	782.1		Weathered limestone							50/0
	781.9		Auger Refusal at 6.5 feet							
		10								
		15								
		20								

BORING NO: **B-62**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 794.3	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	794.3	0	Topsoil- 5 inches							
	793.9		Lean Clay (CL) with trace oxide nodules, stiff to firm, brown, moist			18				3 - 5 - 6
						10				6 - 5 - 5
						12				4 - 3 - 4
	789.3	5	Fat Clay (CH) with trace oxide nodules, stiff to firm, brown to dark brown, moist							
						17				3 - 4 - 5
						18				3 - 2 - 5
		10								
	782.2		Weathered limestone							
	781.9		Auger Refusal at 12.4 feet							
		15								
		20								

BORING NO: **B-63**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 781.7	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N)	BLOWS /6"
	781.7	0	Topsoil- 11 inches			18				3 - 3 - 4
	780.8		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			18				4 - 5 - 7
		5				12				5 - 5 - 8
	775.7		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			14				5 - 7 - 9
		10				18				5 - 7 - 22
	768.3		Weathered limestone							
	767.9	15	Auger Refusal at 13.8 feet / Begin Coring			20/24	21			
			Limestone, light gray, fine to medium grained							
			Water stained beds to 16 feet			58/60	78			
		20				35/36	84			
	757.9		Coring Terminated at 23.8 feet							
		25								
		30								

BORING NO: **B-64**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 790.0	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	790.0	0	Topsoil- 5 inches							
	789.6		Lean Clay (CL) with trace oxide nodules, very stiff, brown, moist			6				3 - 6 - 13
	788.2		Fat Clay (CH) with chert fragments, very hard, brown to dark brown, moist			10				38 - 10 - 50/2
	787.3		Weathered limestone							
	786.0		Auger Refusal at 4 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-65**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 800.9	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	800.9	0	Topsoil- 5 inches							
	800.5		Lean Clay (CL) with trace oxide nodules, soft, brown, moist			6				2 - 1 - 1
						14				1 - 2 - 2
	796.9		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			12				5 - 9 - 8
		5				4				5 - 14 - 14
	792.7		Weathered limestone							
	792.3		Auger Refusal at 8.6 feet							
		10								
		15								
		20								

BORING NO: **B-66**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 803.5	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	803.5 / 803.2	0	Topsoil- 4 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			14				2 - 2 - 3
						18				3 - 3 - 4
	799.5	5	Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			13				5 - 3 - 6
	797.5		Fat Clay (CH) with chert fragments, very stiff, brown to dark brown, moist			16				8 - 12 - 11
						10				20 - 50/4
	793.5 / 793.1	10	Weathered limestone			4/7	0			
			Auger Refusal at 10.4 feet / Begin Coring							
			Limestone, light gray, fine to medium grained			51/60	85			
			Clay seams to 12 feet							
		15								
						60/60	100			
		20								
	782.5		Coring Terminated at 21.0 feet							
		25								
		30								

BORING NO: **B-67**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 803.6	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Recovery (in)	BLOWS /6"
	803.6	0	Topsoil- 5 Inches		
	803.2		Lean Clay (CL) with trace oxide nodules, firm, brown, moist	12	2 - 2 - 2
				14	2 - 3 - 4
	799.6		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist	16	5 - 5 - 7
		5		18	9 - 11 - 13
		10		13	9 - 7 - 12
	790.7		Weathered limestone		
	790.5		Auger Refusal at 13.1 feet		
		15			
		20			

Lithology | Sample Type | RQD (%) | Qu | STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-68**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 793.6	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	793.6	0	Topsoil- 1 inch							
	793.5		Lean Clay (CL) with trace oxide nodules, very stiff, brown, moist			7				4 - 6 - 12
	791.9		Fat Clay (CH) with chert fragments, very stiff, brown to dark brown, moist			12				16 - 16 - 22
	790.3		Weathered limestone							
	789.6		Auger Refusal at 4 feet / Begin Coring							
		5	Limestone, light gray, fine to medium grained			14/20	0			
			Few thin clay seams to 6 feet Water stained beds to 6.5 feet			60/60	78			
		10								
						32/48	50			
	778.8	15	Coring Terminated at 14.8 feet							
		20								

BORING NO: **B-69**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 787.4	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	787.4	0	Topsoil- 9 inches							
	786.6		Lean Clay (CL) with trace oxide nodules, stiff, brown, moist			14				3 - 5 - 5
	785.4		Fat Clay (CH) with trace oxide nodules, firm, brown to dark brown, moist			3				2 - 3 - 4
	783.4		Auger Refusal at 4 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-70**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 798.9	BORING STARTED: 6/10/2014	BORING COMPLETED: 6/10/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	798.9	0	Topsoil- 12 inches			16				4 - 6 - 4
	797.9		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			16				3 - 2 - 4
	795.9		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			18				4 - 6 - 10
		5				0				50/1
	792.3		Weathered limestone							
	788.7	10	Auger Refusal at 10.2 feet							
		15								
		20								

BORING NO: **B-71**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 806.1	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	806.1	0								
	805.8		Topsoil- 4 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12				2 - 2 - 4
	805.1		Fat Clay (CH) with trace oxide nodules, firm to stiff, brown to dark brown, moist			6				3 - 4 - 4
		5				18				3 - 5 - 8
	800.3		Weathered limestone							
	800.0		Auger Refusal at 6.1 feet							
		10								
		15								
		20								

BORING NO: **B-72**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 794.4	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	794.4	0								
	794.2		Topsoil- 2 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			16				3 - 4 - 4
	792.9		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			8				7 - 7 - 23
	790.6		Auger Refusal at 3.8 feet							
		5								
		10								
		15								
		20								

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-73**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 787.6	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	787.6	0								
	787.4		Topsoil- 2 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			7			•	2 - 4 - 3
	786.1		Fat Clay (CH) with trace oxide nodules, firm, brown to dark brown, moist			4			•	2 - 3 - 5
						3			•	50/.5
	783.1	5	Weathered limestone							
	781.8		Auger Refusal at 58 feet							
		10								
		15								
		20								

BORING NO: **B-74**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 802.3	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	802.3	0	Topsoil- .7 inches							
	802.0		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			8				3 - 3 - 2
						10				2 - 3 - 3
	798.3		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			16				5 - 7 - 10
		5				16				16 - 7 - 6
		10				7				8 - 12 - 18
	790.3		Weathered limestone							
	790.1		Auger Refusal at 12.2 feet							
		15								
		20								

BORING NO: **B-75**

S&ME

TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 794.5	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	794.5	0	Topsoil- 5 inches							
	794.1		Lean Clay (CL) with trace oxide nodules, firm to stiff, brown, moist			18				3 - 5 - 5
						14				6 - 7 - 9
	791.5		Fat Clay (CH) with trace oxide nodules, hard, brown to dark brown, moist			6				4 - 50/0.3
	789.8	5	Weathered limestone							
	788.6		Auger Refusal at 5.9 feet							
		10								
		15								
		20								

BORING NO: **B-76**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 792.4	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	792.4	0	Topsoil- 5 inches							
	792.0		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			18				2 - 2 - 4
						9				1 - 3 - 3
	789.4		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			18				3 - 4 - 5
		5								
	786.6		Weathered limestone							
	786.4		Auger Refusal at 6 feet							
		10								
		15								
		20								

BORING NO: **B-77**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 785.2	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	785.2	0	Topsoil- 4 inches							
	784.9		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			6				4 - 2 - 3
	783.7		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			10				3 - 5 - 9
	781.3		Weathered limestone			0				50/0.1
	781.1		Auger Refusal at 4.1 feet							
		5								
		10								
		15								
		20								

CRAIG2 1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-78**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 794.8	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	794.8	0	Topsoil- 5 inches							
	794.4		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			14				3 - 3 - 4
	792.8		Fat Clay (CH) with trace oxide nodules, stiff, brown to dark brown, moist			6				10 - 5 - 5
	791.5		Weathered limestone							
	791.0		Auger Refusal at 3.8 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-79**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 799.5	BORING STARTED: 6/16/2014	BORING COMPLETED: 6/16/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	799.5	0	Topsoil- 6 inches							
	799.0		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			16				5 - 6 - 4
						13				3 - 3 - 4
	795.5		Fat Clay (CH) with trace oxide nodules, firm to very stiff, brown to dark brown, moist			16				2 - 3 - 4
		5				18				4 - 7 - 12
	791.1		Weathered limestone			0				50/0
	790.5		Auger Refusal at 9 feet							
		10								
		15								
		20								

BORING NO: **B-80**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 797.1	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	797.1	0	Topsoil- 9 inches							
	796.4		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12				2 - 2 - 4
						8				3 - 3 - 3
	794.1		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			14				12 - 10 - 11
		5								
	791.6		Weathered limestone							
	791.1		Auger Refusal at 6 feet							
		10								
		15								
		20								

BORING NO: **B-81**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 805.3	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	805.3	0								
	804.9		Topsoil- 5 inches			12			●	3 - 2 - 4
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist							
	803.3		Fat Clay (CH) with trace oxide nodules, firm to very stiff, brown to dark brown, moist			10			●	3 - 3 - 3
		5				18			●	4 - 5 - 9
						18			●	20 - 24 - 24
	797.3		Weathered limestone							
	796.3		Auger Refusal at 9 feet / Begin Coring			0			●	50/0
		10	Limestone, light gray, fine to medium grained			6/19	24			
			clay seams to 12 feet			55/60	17			
		15								
						55/60	80			
		20								
	784.6		Coring Terminated at 20.7 feet							
		25								
		30								

BORING NO: **B-82**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 806.2	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	806.2	0	Topsoil- 2 inches							
	806.0		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			6			●	5 - 4 - 4
	804.7		Fat Clay (CH) with trace oxide nodules, firm, brown to dark brown, moist			8			●	2 - 3 - 4
	803.2		Weathered limestone							
	802.7		Auger Refusal at 3.5 feet							
		5								
		10								
		15								
		20								

BORING NO: **B-83**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 794.2	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	794.2 / 794.1	0	Topsoil- 1 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			10				3 - 4 - 3
	792.7		Fat Clay (CH) with trace oxide nodules, stiff to very stiff, brown to dark brown, moist			12				3 - 4 - 5
						18				5 - 6 - 10
		5								
	788.7 / 788.5		Weathered limestone							
			Auger Refusal at 5.7 feet							
		10								
		15								
		20								

BORING NO: **B-84**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 809.1	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	809.1	0	Topsoil- 4 inches							
	808.8		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			8				3 - 2 - 3
						16				3 - 2 - 4
	805.1		Fat Clay (CH) with trace oxide nodules, stiff to very stiff, brown to dark brown, moist			18				4 - 6 - 8
		5				18				8 - 11 - 21
	800.9		Weathered limestone							
	800.1		Auger Refusal at 9 feet							
		10								
		15								
		20								

BORING NO: **B-85**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 807.1	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Recovery (in)	BLOWS /6"
	807.1 / 806.9	0	Topsoil- 2 inches		
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist	12	2 - 2 - 3
				12	2 - 3 - 3
	803.1		Fat Clay (CH) with trace oxide nodules, stiff to very stiff, brown to dark brown, moist	18	6 - 7 - 8
		5		18	8 - 11 - 13
				10	16 - 50
	797.3	10	Weathered limestone		
	796.1		Auger Refusal at 11 feet		
		15			
		20			

Lithology | Sample Type | RQD (%) | Qu | STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50

CRAIG2_1183-14-027.GPJ QOR_CORP.GDT 7/24/14

BORING NO: **B-86**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 805.7	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	805.7	0	Topsoil- 2 inches							
	805.5		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			14				3 - 2 - 3
						14				3 - 3 - 3
	801.7		Fat Clay (CH) with trace oxide nodules, very stiff, brown to dark brown, moist			18				5 - 7 - 11
		5								
						16			>>	20 - 19 - 50
	798.2		Weathered limestone							
	796.8		Auger Refusal at 8.9 feet							
		10								
		15								
		20								

BORING NO: **B-87**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 797.8	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	797.8 / 797.7	0	Topsoil- 1 inches							
			Lean Clay (CL) with trace oxide nodules, firm, brown, moist			10				3 - 4 - 4
	796.3		Fat Clay (CH) with trace oxide nodules, firm to stiff, brown to dark brown, moist			7				3 - 3 - 2
						18				5 - 6 - 9
		5								
	792.1 / 791.9		Weathered limestone							
			Auger Refusal at 5.9 feet							
		10								
		15								
		20								

BORING NO: **B-88**

S&ME TEST BORING RECORD

PROJECT: Sower Boulevard	JOB NO: 1183-14-027	REPORT NO:
PROJECT LOCATION: Frankfort, KY		
ELEVATION: 789.0	BORING STARTED: 6/17/2014	BORING COMPLETED: 6/17/2014
DRILLING METHOD: 4" HSA	RIG TYPE: D-50	HAMMER: AUTO
GROUNDWATER (ft): Dry	BORING DIAMETER (IN): 4	SHEET 1 OF 1

Remarks:

Groundwater	ELEV. (FT.)	DEPTH (FT.)	MATERIAL DESCRIPTION	Lithology	Sample Type	Recovery (in)	RQD (%)	Qu	STANDARD PENETRATION RESISTANCE (N) 0 10 20 30 40 50	BLOWS /6"
	789.0	0	Topsoil- 4 inches							
	788.7		Lean Clay (CL) with trace oxide nodules, firm, brown, moist			12			•	3 - 3 - 5
	787.5		Fat Clay (CH) with trace oxide nodules, firm, brown to dark brown, moist			6			•	3 - 4 - 3
	785.3		Weathered limestone							
	785.0		Auger Refusal at 4 feet							
		5								
		10								
		15								
		20								

FIELD TESTING PROCEDURES

Field Operations: The general field procedures employed by S&ME, Inc. are summarized in ASTM D 420 which is entitled "Investigating and Sampling Soils and Rocks for Engineering Purposes." This recommended practice lists recognized methods for determining soil and rock distribution and ground water conditions. These methods include geophysical and in situ methods as well as borings.

Borings are drilled to obtain subsurface samples using one of several alternate techniques depending upon the subsurface conditions. These techniques are:

a. Continuous 2-1/2 or 3-1/4 inch I.D. hollow stem augers;
b. Wash borings using roller cone or drag bits (mud or water);
c. Continuous flight augers (ASTM D 1425).

These drilling methods are not capable of penetrating through material designated as "refusal materials." Refusal, thus indicated, may result from hard cemented soil, soft weathered rock, coarse gravel or boulders, thin rock seams, or the upper surface of sound continuous rock. Core drilling procedures are required to determine the character and continuity of refusal materials.

The subsurface conditions encountered during drilling are reported on a field test boring record by a field engineer who is on site to direct the drilling operations and log the recovered samples. The record contains information concerning the boring method, samples attempted and recovered, indications of the presence of various materials such as coarse gravel, cobbles, etc., and observations between samples. Therefore, these boring records contain both factual and interpretive information. The field boring records are on file in our office.

The soil and rock samples plus the field boring records are reviewed by a geotechnical engineer. The engineer classifies the soils in general accordance with the procedures outlined in ASTM D 2488 and prepares the final boring records that are the basis for all evaluations and recommendations.

The final boring records represent our interpretation of the contents of the field records based on the results of the engineering examinations and tests of the field samples. These records depict subsurface conditions at the specific locations and at the particular time when drilled. Soil conditions at other locations may differ from conditions occurring at these boring locations. Also, the passage of time may result in a change in the subsurface soil and ground water conditions at these boring locations. The lines designating the interface between soil or refusal materials on the records and on profiles represent approximate boundaries. The transition between materials may be gradual. The final boring records are included with this report. The detailed data collection methods using during this study are discussed on the following pages.

Soil Test Borings: Soil test borings were made at the site at locations shown on the attached Boring Plan. Soil sampling and penetration testing were performed in accordance with ASTM D 1586.

The borings were made by mechanically twisting a 5-5/8" outer diameter auger into the soil. At regular intervals, the drilling tools were removed and samples obtained with a standard 1.4 inch I.D., 2 inch O.D., split tube sampler. The sampler was first seated 6 inches to penetrate any loose cuttings, then driven an additional foot with blows of a 140-pound hammer falling 30 inches. The number of hammer blows required to drive the sampler the final foot was recorded and is designated the "penetration resistance".

Representative portions of the samples, thus obtained, were placed in glass jars and transported to the laboratory. In the laboratory, the samples were examined to verify the driller's field classifications. Test Boring Records are attached which graphically show the soil descriptions and penetration resistances.

Soil Auger Soundings: Soil auger soundings were made at the site at the locations shown on the attached Boring Location Plan. The soundings were performed by mechanically twisting a steel auger into the soil. However, unlike the soil test borings, a smaller diameter solid stem auger was used and no split-spoon samples were obtained. The driller provided a general description of the soil encountered by observing the soils brought to the surface by the twisting auger. The auger was advanced until refusal materials were encountered and the refusal depth was noted by the driller. The auger is then withdrawn and the depths to water or caved materials are then measured and recorded by the driller.

Soil auger soundings provide a rapid, economical method of obtaining the approximate bedrock depth, groundwater depth, and general soil conditions at locations where detailed soil testing and sampling is not required.

Water Level Readings: Water table readings are normally taken in conjunction with borings and are recorded on the "Test Boring Records". These readings indicate the approximate location of the hydrostatic water table at the time of our field investigation. Where impervious soils are encountered (clayey soils) the amount of water seepage into the boring is small, and it is generally not possible to establish the location of the hydrostatic water table through water level readings. The ground water table may also be dependent upon the amount of precipitation at the site during a particular period of time. Fluctuations in the water table should be expected with variations in precipitation, surface run-off, evaporation and other factors.

The time of boring water level reported on the boring records is determined by field crews as the drilling tools are advanced. The time of boring water level is detected by changes in the drilling rate, soil samples obtained, etc. Additional water table readings are generally obtained at least 24 hours after the borings are completed. The time lag of at least 24 hours is used to permit stabilization of the ground water table which has been disrupted by the drilling operations. The readings are taken by dropping a weighted line down the boring or using an electrical probe to detect the water level surface. Occasionally the borings will cave-in, preventing water level readings from being obtained or trapping drilling water above the caved-in zone. The cave-in depth is also measured and recorded on the boring records.

APPENDIX C

SUMMARY OF LABORATORY TEST DATA

LABORATORY TESTING PROCEDURES

Form No. 1831-SUM-01
Revision No. : 0
Revision Date: 01/20/12

Lab Summary

S&ME

S&ME, Inc - Lexington 2020 Liberty Road, Suite 105 Lexington, KY 40505

Project No.: 1183-14-027 Report Date: 07/08/14

Project Name: Sower Boulevard Site

Client Name: Finance and Administration

Client Address: 403 Wapping Street, Frankfort, KY 40601

BORING NO.	SAMPLE DEPTH, FT.	SAMPLE TYPE	USCS	NATURAL MOISTURE CONTENT,%	ATTERBERG LIMITS			MAX. DRY DENSITY PCF / OPTIMUM MOISTURE %	UNIT WEIGHT, PCF		UNCONFINED COMPRESSIVE STRENGTH,PSF	MATERIAL FINER THAN NO. 200, %	SPECIFIC GRAVITY	CBR, %
					L.L.	P.L.	P.I.		WET	DRY				
B-1	1.5 - 3.0	SPT		28.0										
B-2	1.5 - 3.0	SPT		21.7										
B-2	4.0 - 5.5	SPT		35.4										
B-3	1.5 - 3.0	SPT		22.5										
B-3	4.0 - 5.5	SPT		31.9										
B-4	1.5 - 3.0	SPT		22.1										
B-4	4.0 - 5.5	SPT		22.3										
B-4	6.5 - 8.0	SPT		34.0										
B-4	9.0 - 10.5	SPT		32.1										
B-5	1.5 - 3.0	SPT		22.3										
B-5	4.0 - 5.5	SPT		34.0										
B-6	1.5 - 3.0	SPT		28.6										
B-7	1.5 - 3.0	SPT		25.9										
B-8	1.5 - 3.0	SPT		21.0										
B-8	3.0 - 5.0	UD	CL	29.8	48	19	29		123.8	95.4	2,698			
B-8	5.0 - 6.5	SPT		15.5										
B-9	1.5 - 3.0	SPT		17.9										
B-9	4.0 - 5.5	SPT		23.1										
B-9	6.5 - 8.0	SPT		36.5										
B-10	1.5 - 3.0	SPT		23.4										
B-10	4.0 - 5.5	SPT		37.2										
B-11	1.5 - 3.0	SPT		35.9										

Stephen Bennett
Technical Responsibility

Signature

Location Coordinator
Position

7/8/2014
Date

This report shall not be reproduced, except in full, without the written approval of S&ME, Inc.

Form No. 1831-SUM-01
Revision No. : 0
Revision Date: 01/20/12

Lab Summary

S&ME

S&ME, Inc - Lexington 2020 Liberty Road, Suite 105 Lexington, KY 40505

Project No.: 1183-14-027 Report Date: 07/08/14
Project Name: Sower Boulevard Site
Client Name: Finance and Administration
Client Address: 403 Wapping Street, Frankfort, KY 40601

BORING NO.	SAMPLE DEPTH, FT.	SAMPLE TYPE	USCS	NATURAL MOISTURE CONTENT,%	ATTERBERG LIMITS			MAX. DRY DENSITY PCF / OPTIMUM MOISTURE %	UNIT WEIGHT, PCF		UNCONFINED COMPRESSIVE STRENGTH,PSF	UNCONFINED COMPRESSIVE STRENGTH,PSI	SPECIFIC GRAVITY	CBR, %
					L.L.	P.L.	P.I.		WET	DRY				
B-12	1.5 - 3.0	SPT		27.8										
B-12	7.3 - 7.9	CORE										6382		
B-13	1.5 - 3.0	SPT		21.9										
B-13	4.0 - 5.5	SPT		33.7										
B-14	1.5 - 3.0	SPT		21.9										
B-14	4.0 - 5.1	SPT		25.4										
B-15	1.5 - 3.0	SPT		27.2										
B-15	10.0 - 10.5	CORE										8442		
B-17	1.5 - 3.0	SPT		22.3										
B-17	4.0 - 5.5	SPT		23.8										
B-17	3.0 - 8.0	SPT		33.4										
B-18	1.5 - 3.0	SPT		34.7										
B-18	4.0 - 5.5	SPT		29.2										
B-19	1.5 - 3.0	SPT		32.6										
B-20	1.5 - 3.0	SPT		21.6										
B-20	4.0 - 5.5	SPT	CH	24.2	57	22	35							
B-20	6.5 - 8.0	SPT		31.0										
B-20	9.0 - 10.5	SPT		30.9										
B-20	19.0 - 20.5	SPT	CH	29.5	70	24	46							
B-21	1.5 - 3.0	SPT		32.5										
B-22	1.5 - 3.0	SPT		34.2										
B-22	4.0 - 5.5	SPT		34.5										
B-22	8.7 - 9.3	CORE										5469		

Stephen Bennett
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Lab Summary

S&ME

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Project No.: 1183-14-027 Report Date: 07/08/14

Project Name: Sower Boulevard Site

Client Name: Finance and Administration

Client Address: 403 Wapping Street, Frankfort, KY 40601

BORING NO.	SAMPLE DEPTH, FT.	SAMPLE TYPE	USCS	NATURAL MOISTURE CONTENT,%	ATTERBERG LIMITS			MAX. DRY DENSITY PCF / OPTIMUM MOISTURE %	UNIT WEIGHT, PCF		UNCONFINED COMPRESSIVE STRENGTH,PSI	MATERIAL FINER THAN NO. 200, %	SPECIFIC GRAVITY	CBR, %
					L.L.	P.L.	P.I.		WET	DRY				
B-23	1.5 - 3.0	SPT		30.7										
B-23	4.0 - 5.5	SPT		10.3										
B-24	1.5 - 3.0	SPT		15.8										
B-25	1.5 - 3.0	SPT		25.8										
B-25	5.5 - 6.3	CORE									8,809			
B-26	1.5 - 3.0	SPT		25.7										
B-26	4.0 - 5.5	SPT		27.0										
B-27	1.5 - 3.0	SPT		27.0										
B-28	1.5 - 3.0	SPT		30.7										
B-28	4.0 - 5.5	SPT		23.2										
B-29	1.5 - 3.0	SPT		32.6										
B-30	1.5 - 3.0	SPT		24.1										
B-31	1.5 - 3.0	SPT		3.7										
B-31	9.4 - 9.8	CORE									6,049			
B-32	1.5 - 3.0	SPT		28.5										
B-33	1.5 - 3.0	SPT		9.4										
B-34	1.5 - 3.0	SPT		31.5										
B-35	1.5 - 3.0	SPT		23.7										
B-35	3.0 - 5.0	UD	CH	28.1	67	23	44		121.9	95.1	5,346			

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					L.L.	P.L.	P.I.		WET	DRY				
B-36	1.5 - 3.0	SPT		24.9										
B-36	4.0 - 5.5	SPT		25.1										
B-36	6.5 - 8.0	SPT		32.7										
B-37	1.5 - 3.0	SPT		31.9										
B-37	4.0 - 4.9	CORE									11,606			
B-38	1.5 - 3.0	SPT		32.6										
B-40	1.0 - 5.0	BULK	CL	28.5	49	24	25	98.0 / 22.7						
B-40	1.5 - 3.0	SPT		28.8										
B-40	4.0 - 5.5	SPT		29.6										
B-41	1.5 - 3.0	SPT		26.7										
B-41	4.0 - 5.5	SPT		27.2										
B-42	1.5 - 3.0	SPT		34.7										
B-43	1.5 - 3.0	SPT		26.5										
B-45	1.5 - 3.0	SPT		22.2										
B-45	4.0 - 5.5	SPT		22.1										
B-45	6.5 - 8.0	SPT		35.3										
B-45	9.0 - 10.5	SPT		32.9										
B-45	14.0 - 15.5	SPT		33.8										
B-47	2.6 - 3.1	CORE									16,495			
B-49	1.5 - 3.0	SPT		28.8										
B-50	1.5 - 3.0	SPT		27.8										
B-50	7.4 - 7.8	CORE									19,052			

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					L.L.	P.L.	P.I.		WET	DRY				
B-51	1.5 - 3.0	SPT		29.8										
B-51	4.0 - 5.5	SPT		23.0										
B-52	1.0 - 5.0	BULK	CH	23.8	63	23	40	97.1 / 24.3						4.1
B-52	1.5 - 3.0	SPT		25.0										
B-52	6.5 - 8.0	SPT		28.9										
B-53	1.5 - 3.0	SPT		25.1										
B-53	4.0 - 5.5	SPT		24.5										
B-54	1.5 - 3.0	SPT		30.2										
B-54	4.0 - 5.5	SPT		28.0										
B-54	6.5 - 8.0	SPT		25.9										
B-55	1.5 - 3.0	SPT		32.4										
B-55	4.0 - 5.5	SPT		29.6										
B-56	1.5 - 3.0	SPT		26.3										
B-59	1.5 - 3.0	SPT		22.0										
B-59	4.0 - 5.5	SPT		33.2										
B-61	1.5 - 3.0	SPT		28.7										
B-61	4.0 - 5.5	SPT		21.3										
B-62	1.5 - 3.0	SPT		22.6										
B-62	4.0 - 5.5	SPT		31.2										
B-62	6.5 - 8.0	SPT		33.0										
B-62	9.0 - 10.5	SPT		31.2										
B-63	18-18.4	CORE									6,887			
B-63	1.5 - 3.0	SPT		27.6										
B-63	4.0 - 5.5	SPT		27.9										
B-63	6.5 - 8.0	SPT		24.9										
B-63	9.0 - 10.5	SPT		30.7										

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					L.L.	P.L.	P.I.		WET	DRY				
B-64	1.5 - 2.8	SPT		14.2										
B-65	1.5 - 3.0	SPT		32.1										
B-65	4.0 - 5.5	SPT		18.3										
B-65	6.5 -8 .0	SPT		22.2										
B-66	1.5 - 3.0	SPT		24.2										
B-66	4.0 - 5.5	SPT		28.8										
B-66	6.5 -8 .0	SPT		20.6										
B-66	14.7 - 15.4	CORE									10,446			
B-67	1.5 - 3.0	SPT		25.3										
B-67	4.0 - 5.5	SPT		36.1										
B-67	6.5 -8 .0	SPT		14.5										
B-67	9.0 - 10.5	SPT		29.7										
B-68	1.5 - 3.0	SPT		16.3										
B-68	7.6 - 8.0	CORE									8,562			
B-69	1.5 - 3.0	SPT		26.7										
B-70	1.5 - 3.0	SPT		30.3										
B-70	4.0 - 5.5	SPT	CH	23.6	66	22	44							
B-71	1.5 - 3.0	SPT		31.5										
B-71	4.0 - 5.5	SPT		29.2										
B-72	1.5 - 3.0	SPT		16.7										
B-73	1.5 - 3.0	SPT		25.9										
B-74	1.5 - 3.0	SPT		32.5										
B-74	4.0 - 5.5	SPT	CH	28.8	65	25	40							
B-74	6.5 -8 .0	SPT		21.5										
B-74	9.0 - 10.5	SPT	CL	25.1	47	19	28							

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					L.L.	P.L.	P.I.		WET	DRY				
B-75	0.0 - 5.0	BULK	CH	25.8	51	21	30	102.0 / 21.0						
B-75	1.5 - 3.0	SPT		21.2										
B-76	1.5 - 3.0	SPT		25.2										
B-76	4.0 - 5.5	SPT		32.4										
B-77	1.5 - 3.0	SPT		29.4										
B-78	1.5 - 3.0	SPT		25.4										
B-79	1.5 - 3.0	SPT		24.0										
B-79	4.0 - 5.5	SPT		33.2										
B-79	6.5 - 8.0	SPT		25.6										
B-80	1.5 - 3.0	SPT		30.8										
B-80	4.0 - 5.5	SPT		17.2										
B-81	1.5 - 3.0	SPT		31.5										
B-81	4.0 - 5.5	SPT		25.9										
B-81	17.3 - 17.7	CORE									8,320			
B-82	1.5 - 3.0	SPT		33.4										
B-83	1.5 - 3.0	SPT		32.3										
B-84	1.0 - 5.0	BULK	CH	29.2	64	22	42	97.0 / 26.0						3.1
B-84	1.5 - 3.0	SPT		25.8										
B-84	4.0 - 5.5	SPT		28.5										
B-84	6.5 - 8.0	SPT		24.2										
B-85	1.5 - 3.0	SPT		21.5										
B-85	4.0 - 5.5	SPT		26.0										
B-85	6.5 - 8.0	SPT		23.3										

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					L.L.	P.L.	P.I.		WET	DRY				
B-86	1.5 - 3.0	SPT		21.6										
B-86	4.0 - 5.5	SPT		31.5										
B-86	6.5 - 8.0	SPT		21.1										
B-87	1.5 - 3.0	SPT		29.9										
B-87	4.0 - 5.5	SPT		28.8										
B-88	1.5 - 3.0	SPT		31.4										

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LABORATORY TESTING PROCEDURES

Soil Classification: Soil classifications provide a general guide to the engineering properties of various soil types and enable the engineer to apply past experience to current problems. In our investigations, samples obtained during drilling operations are examined in our laboratory and visually classified by an engineer. The soils are classified according to consistency (based on number of blows from standard penetration tests), color and texture. These classification descriptions are included on our "Test Boring Records."

The classification system discussed above is primarily qualitative and for detailed soil classification two laboratory tests are necessary: grain size tests and plasticity tests. Using these test results the soil can be classified according to the AASHTO or Unified Classification Systems (ASTM D 2487). Each of these classification systems and the in-place physical soil properties provides an index for estimating the soil's behavior. The soil classification and physical properties obtained are presented in this report.

Compaction Tests: Compaction tests are run on representative soil samples to determine the dry density obtained by a uniform compactive effort at varying moisture contents. The results of the test are used to determine the moisture content and unit weight desired in the field for similar soils. Proper field compaction is necessary to decrease future settlements, increase the shear strength of the soil and decrease the permeability of the soil.

The two most commonly used compaction tests are the Standard Proctor test and the Modified Proctor test. They are performed in accordance with ASTM D 698 and D 1557, respectively. Generally, the Standard Proctor compaction test is run on samples from building or parking areas where small compaction equipment is anticipated. The Modified compaction test is generally performed for heavy structures, highways, and other areas where large compaction equipment is expected. In both tests a representative soil sample is placed in a mold and compacted with a compaction hammer. Both tests have four alternate methods.

Test	Method	Hammer Wt./Fall	Mold Diam.	Run on Matl. Finer Than	No. of Layers	No. of Blows/Layer
Standard	A	5.5 lb./12"	4"	No. 4 sieve	3	25
D 698	B	5.5 lb./12"	4"	3/8" sieve	3	25
	C	5.5 lb./12"	6"	3/4" sieve	3	56

Test	Method	Hammer Wt./Fall	Mold Diam.	Run on Matl. Finer Than	No. of Layers	No. of Blows/Layer
Modified	A	10 lb./18"	4"	No. 4 sieve	5	25
D 1557	B	10 lb./18"	4"	3/8" sieve	5	25
	C	10 lb./18"	6"	3/4" sieve	5	56

The moisture content and unit weight of each compacted sample is determined. Usually 4 to 5 such tests are run at different moisture contents. Test results are presented in the form of a dry unit weight versus moisture content curve. The compaction method used and any deviations from the recommended procedures are noted in this report.

Atterberg Limits: Portions of the samples are taken for Atterberg Limits testing to determine the plasticity characteristics of the soil. The plasticity index (PI) is the range of moisture content over which the soil deforms as a plastic material. It is bracketed by the liquid limit (LL) and the plastic limit (PL). The liquid limit is the moisture content at which the soil becomes sufficiently "wet" to flow as a heavy viscous fluid. The plastic limit is the lowest moisture content at which the soil is sufficiently plastic to be manually rolled into tiny threads. The liquid limit and plastic limit are determined in accordance with ASTM D 4318.

Moisture Content: The Moisture Content is determined according to ASTM D 2216.

APPENDIX D

ACI 302.1R-96

GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION

ADDENDUM
GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (302.1R-96)
Vapor Retarder Location

The report of ACI Committee 302, "Guide for Concrete Floor and Slab Construction (ACI 302.1R-96)" states in section 4.1.5 that "if a vapor barrier or retarder is required due to local conditions, these products should be placed under a minimum of 4 in. (100 mm) of trimable, compactible, granular fill (not sand)." ACI Committee 302 on Construction of Concrete Floors, and Committee 360 on Design of Slabs on Ground have found examples where this approach may have contributed to floor covering problems.

Based on the review of the details of problem installations, it became clear that the fill course above the vapor retarder can take on water from rain, wet-curing, wet-grinding or cutting, and cleaning. Unable to drain, the wet or saturated fill provides an additional source of water that contributes to moisture-vapor emission rates from the slab well in excess of the 3 to 5 lb/1000 ft^2/24 h (1.46 to 2.44 kg/100 m^2/24 h) recommendation of the floor covering manufacturers.

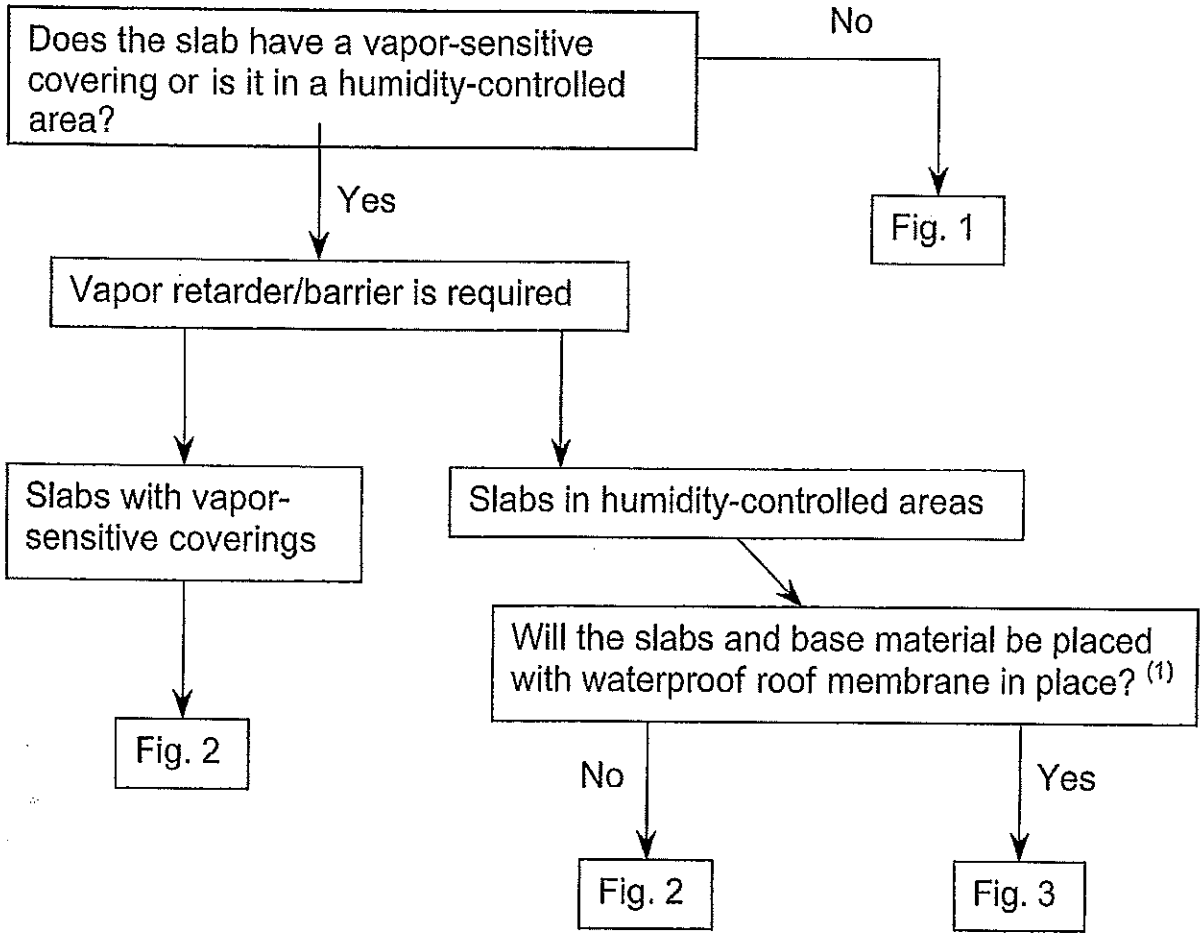
As a result of these experiences, and the difficulty in adequately protecting the fill course from water during the construction process, caution is advised on the use of the granular fill layer when moisture-sensitive finishes are to be applied to the slab surface.

The committees believe that when the use of a vapor retarder or barrier is required, the decision whether to locate the retarder or barrier in direct contact with the slab or beneath a layer of granular fill should be made on a case-by-case basis.

Each proposed installation should be independently evaluated by considering the moisture sensitivity of subsequent floor finishes, anticipated project conditions and the potential effects of slab curling and cracking.

The following chart can be used to assist in deciding where to place the vapor retarder. The anticipated benefits and risks associated with the specified location of the vapor retarder should be reviewed with all appropriate parties before construction.

ADDENDUM
GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
(302.1R-96)
Flow Chart for Location of Vapor Retarder/Barrier



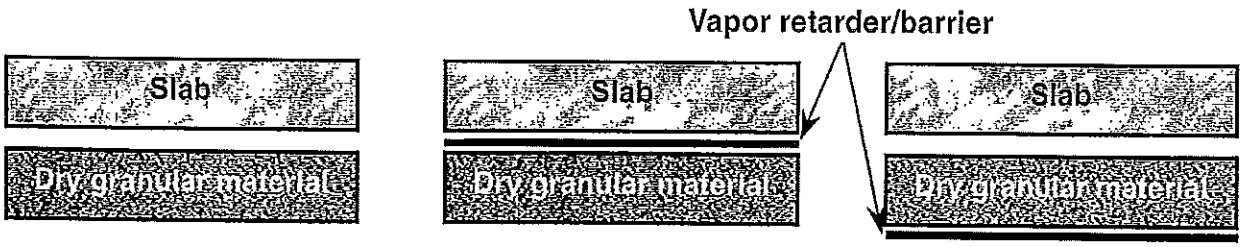


Figure 1 **Figure 2** (2) **Figure 3**

(1) If granular material is subject to future moisture infiltration, use Fig. 2

(2) If Fig. 2 is used, reduced joint spacing, a concrete with low shrinkage potential, or other measures to minimize slab curling will likely be required.

Exhibit O

Selection Committee Evaluation Criteria

PROPOSED OFFICE BUILDING
SOWER BLVD. "CARPENTER FARM" PROPERTY

Phase I Selection Committee Evaluation

The Selection Committee will evaluate the following minimum requirements of the RFP for compliance with the RFP on a pass/fail basis. Any item not reasonably indicated in the Proposal Submission shall be evaluated as fail. This evaluation listing does not modify the minimum requirements of the RFP for building and site design even if a specific requirement is not listed for evaluation. Any proposal that receives a fail grading for one or more of the listed evaluation requirements shall be deemed non-responsive and receive a Selection Committee score of 0. All proposals that receive a pass grade for ALL listed evaluation requirements receive a Selection Committee score of 450.

Pass	Fail	Evaluation Criteria Description
		General Proposal Requirements
☐	☐	Proposal contains corporate background and relevant experience, including references. Experience is at least two structures of at a minimum of 80% size of the Project.
☐	☐	Required Drawings and written descriptive Information are provided in the Proposal: Site Plan; Building Floor Plans; Building Elevations; Building Sections; Structural System Information; Written narrative description of the mechanical, electrical, life safety, security and communication systems; CSI formatted Outline Specifications; and Rendering.
☐	☐	A CPM Project Schedule is included and indicates Occupancy shall be no later than June 1, 2016. Substantial Completion and Final Completion dates are June 1, 2016 and August 15, 2016, respectively.
		Site Design
☐	☐	Service drives are to be accessed from site circulation drives and separate from parking access and may be of one way design.
☐	☐	The requirements of Frankfort/ Franklin County Planning and Zoning stipulates that 25% of the parking stalls be constructed of a permeable pavement. This pavement should be shown on the site design plan or the Offeror in the Design Narrative may indicated that they plan to request a waiver to this requirement from the Zoning Board.
☐	☐	Provide the number of parking spaces required by the Frankfort/ Franklin County Planning and Zoning Ordinance. (3 per 1000 gsf). IN ADDITION to this requirement, the RFP requires ADA accessible parking spaces by the following formula (20, plus 1 for each 100 spaces, or fraction thereof over 1,000 spaces). IN ADDITION to this requirement the RFP requires Visitor Parking spaces equal to the number of ADA spaces required. Provide areas for piling of snow in multiple locations adjacent to but not a part of the parking area.
☐	☐	Site plan shall provide four (4) remote shelter pavilions in the parking lot at locations depending on the parking lot configuration and the use of terracing. These pavilions should allow areas of refuge for employees during inclement weather where parking is more than 200 feet of walking from the entrance.
☐	☐	The Site plan provides for the future extension of Sower Boulevard from the current end of Sower Boulevard to the property line at the Western side of the site. This future extension will require a minimum of 100 foot right-of-way. This provision is shown on the site plan.

Building Design

☐ ☐ The main entrance to the building shall be distinctly visible and identifiable as the main entrance from the approach point where the Sower Boulevard intersects the property line. There shall be a clear vehicular path of approach from this approach point to the main entrance to the building.

☐ ☐ The building to be constructed shall be a free-standing office building to accommodate minimum 1,400 employees and shall be a minimum of 364,700 gross square feet, and that is designed such that subdividing and/or adding space can be easily accomplished in the future. Infrastructure must accommodate employees at a rate of 257 Sq.Ft/per person.

☐ ☐ Allow for a snack/ vending/ food service area to be operated by the Department for the Blind (4700 sf) on the first floor of the building.

☐ ☐ Provide for a communication room for each 30,000 square feet of usable office space in the building. This communication room shall be centrally located in the square footage area it services. This room shall be a minimum of 8'x10'. Provide six 20 amp 120 volt circuits and two 30 amp 120 volt circuits in each room. The HVAC system: supply cooling at 5000 BTU for each Communication Room independent to the HVAC system for the building.

☐ ☐ Building Envelope Minimum Standards outlined in the RFP are met. Note: When field applied or constructed materials (i.e. brick masonry, synthetic stone, metal building panels or site-cast-tilt-up concrete panels) are proposed for the building exterior, the design narrative shall explicitly describe the quality control techniques and methods that will be used to insure proper placement, construction, and installation.

☐ ☐ The space planning indicated in the RFP for Offices and cubicle areas has been shown in the proposal drawings, in the correct quantities and percentages.

☐ ☐ The space planning indicated in the RFP for Entrances, Vestibules and Lobbies has been met: Including, the division of major lobbies into secure/non-secure areas with provisions for card controlled access, for employee entrance and security controlled access for visitors; the proposal indicates built-in security casework (for two guards and files) at main lobby.

☐ ☐ The space planning indicated in the RFP Loading Docks/Loading Areas has been met: including that the access to the Loading Dock is able to accommodate a tractor trailer truck (53') and shall have adequate turning and maneuvering radiuses in the site design; Provide the Loading Dock with one overhead door 12' wide by 10' high (minimum); a Receiving Area of at least 600 square feet; Receiving Office of 200sf. Provide a separate area for trash compactor and recycling area.

☐ ☐ The finishes for all areas as defined in the Finish Schedule of the RFP has been met or exceeded. The use of concrete masonry walls in areas other than Loading Dock/ Loading Areas. Elevator shafts and machine rooms, and Mechanical rooms is strictly prohibited. This compliance is indicated in the Proposal as drawings or as Design Narrative Description.

☐ ☐ Roofs shall be sloped (a minimum of ¼" per foot). Do not use tapered insulation to achieve this slope, but utilize a slope in the roof structure. Provide either a membrane roof system or a metal roofing system (or a combination of the two) as outlined in the RFP.

☐ ☐ A minimum of four (4) traction passenger elevators is required for the building. A freight elevator (which can be one of the passenger elevators with removable protective pads) is required. As a minimum freight elevators shall be Class A, traction operated, with a minimum of 4,500 pound load capacity. Provide Cab speed of 200-350 feet per minute. Minimum clear cab size shall be 5 feet 4 inches by 7 feet. Ceiling height shall a minimum of 10 feet.

Energy and Emergency Power Design

☐ ☐ A minimum of "LEED Certification" is required to be utilized for this building. The Design Narrative should include descriptive proof of the Offeror's history and ability to accomplish LEED Certified Design in previously constructed buildings as well as describe the methodologies and goals to be set forth for this specific building.

☐ ☐ The emergency generator system shall be of capacity to allow for full winter heating, all season ventilation and full lighting and power loading to be provided for the HVAC, Electrical and Security Systems.

☐ END OF EVALUATION LISTING OF MIMIMUM REQUIREMENTS - **Max 450 points**

PHASE II SELECTION COMMITTEE EVALUATION

"Value Adds" will be considered by the Committee during oral presentations, as its value to the Project and to the Commonwealth. Each firm will be awarded up to 50 points for their Value Added, that is amenities provided over and above the minimum qualifications.

☐ **Max 50 points**

"Value Added" to the Site Plan
"Value Added" to Interior Amenities
"Value Added" - Option for Expansion

For detailed explanation of above "Value Adds", please refer to Exhibit I of the RFP

☐ (Plus) OFM Score from Phase I - **Max 500 points**

☐ **Total Score for Phases I and II - Max 1000 points**