
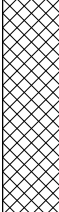
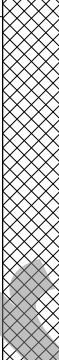



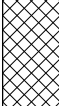
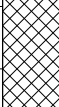
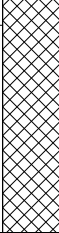


PROJECT NAME: **Three Trails Storm Line** CLIENT: **NorthPoint Development**

PROJECT NUMBER: **G14-0968** LOCATION: **Kansas City, Missouri**



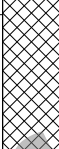

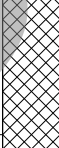
ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ROOT ZONE		0								
	FILL <i>Dark brown to grayish brown, clay, gravel, wood</i>		1.0'								
	<i>Olive brown to gray, shale, gravel</i>		6.5'								
	<i>Brown to gray, limestone cobbles</i>		15.5'								
	<i>Gray, weathered shale, gravel</i>		16.5'								
	<i>Gray, broken concrete, shale</i>		17.0'								
	<i>Gray with olive, weathered shale, gravel</i>		22.0'								
	<i>Gravel, cobbles</i>		23.5'								
	<i>Gray, shale</i>		25.0'								
			30.0'								
BASE OF BORING AT 30.0 FEET											

Draft

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1802 E. 123RD STREET OLATHE, KANSAS 66061	STARTED: 10/20/16	FINISHED: 10/20/16
WD	∇ Not Encountered		DRILL CO.: RC DRILLING	DRILL RIG: 550X
IAD	∇ Not Encountered		DRILLER: Ron	LOGGED BY: Zach
AD	∇ Not Performed		METHOD: CONTINUOUS FLIGHT AUGER	

PROJECT NAME: **Three Trails Storm Line** CLIENT: **NorthPoint Development**

PROJECT NUMBER: **G14-0968** LOCATION: **Kansas City, Missouri**


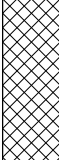
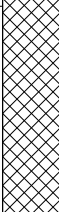
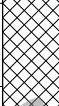


ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ROOT ZONE		0								
1.0'	FILL <i>Dark brown, clay, gravel, wood, plastic</i>		5								
9.0'	<i>Gray, clay, shale, gravel</i>		10								
13.0'	<i>Brown to gray, shale, gravel, limestone cobbles</i>		15								
19.0'	<i>Brown to gray, clay, gravel</i>		20								
23.0'	BASE OF BORING AT 23.0 FEET										

Draft

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1802 E. 123RD STREET OLATHE, KANSAS 66061	STARTED: 10/20/16	FINISHED: 10/20/16
WD	∇ Not Encountered		DRILL CO.: RC DRILLING	DRILL RIG: 550X
IAD	∇ Not Encountered		DRILLER: Ron	LOGGED BY: Zach
AD	∇ Not Performed		METHOD: CONTINUOUS FLIGHT AUGER	

PROJECT NAME: **Three Trails Storm Line** CLIENT: **NorthPoint Development**

PROJECT NUMBER: **G14-0968** LOCATION: **Kansas City, Missouri**







ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ROOT ZONE		0								
1.0'	FILL Gray, clay, gravel		5								
5.0'	Olive to gray, shale, gravel		10								
10.0'	Gray with dark gray, shale, limestone cobbles		12.0'								
12.0'	Gray with dark gray, shale, limestone cobbles, wood and concrete		14.0'								
14.0'	Gray, shale		15								
21.0'	BASE OF BORING AT 21.0 FEET										

Draft

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1802 E. 123RD STREET OLATHE, KANSAS 66061	STARTED: 10/20/16	FINISHED: 10/20/16
WD	∇ Not Encountered		DRILL CO.: RC DRILLING	DRILL RIG: 550X
IAD	∇ Not Encountered		DRILLER: Ron	LOGGED BY: Zach
AD	∇ Not Performed		METHOD: CONTINUOUS FLIGHT AUGER	




PROJECT NAME: **Three Trails Storm Line** CLIENT: **NorthPoint Development**

PROJECT NUMBER: **G14-0968** LOCATION: **Kansas City, Missouri**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ROOT ZONE		0								
1.5'	FILL <i>Dark brown, clay, limestone cobbles, gravel</i>										
4.0'	<i>Olive to gray, shale, gravel</i>		5								
16.0'	<i>Brown with yellow and gray, shale, limestone cobbles</i>		15								
19.0'	<i>Olive brown with gray, shale</i>		20								
25.5'	<i>Brown with gray, shale, weathered limestone</i>		25								
28.0'	BASE OF BORING AT 28.0 FEET										

OLSSON ASSOCIATES
1802 E. 123RD STREET
OLATHE, KANSAS 66061









WATER LEVEL OBSERVATIONS

WD  Not Encountered
 IAD  Not Encountered
 AD  Not Performed

STARTED: 10/20/16 FINISHED: 10/20/16
 DRILL CO.: RC DRILLING DRILL RIG: 550X
 DRILLER: Ron LOGGED BY: Zach
 METHOD: CONTINUOUS FLIGHT AUGER

PROJECT NAME Three Trails Storm Line	CLIENT NorthPoint Development
--	---

PROJECT NUMBER G14-0968	LOCATION Kansas City, Missouri
-----------------------------------	--

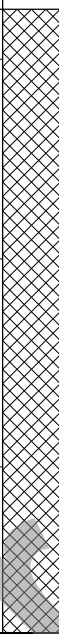
ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ROOT ZONE		0								
1.5'	FILL <i>Brown with gray, clay, weathered shale, gravel</i>		1.5								
12.0'	<i>Gray with olive, shale, cobbles</i>		12.0								
14.0'	<i>Brown, clay</i>		14.0								
17.0'	<i>Gray, limestone cobbles</i>		17.0								
21.5'	<i>Brown, clay, gravel</i>		21.5								
24.0'	<i>Brown, shale, limestone cobbles, gravel, clay</i>		24.0								
28.0'			28.0								

BASE OF BORING AT 28.0 FEET

WATER LEVEL OBSERVATIONS	<p>OLSSON ASSOCIATES 1802 E. 123RD STREET OLATHE, KANSAS 66061</p>	STARTED: 10/20/16	FINISHED: 10/20/16
WD  Not Encountered		DRILL CO.: RC DRILLING	DRILL RIG: 550X
IAD  Not Encountered		DRILLER: Ron	LOGGED BY: Zach
AD  Not Performed		METHOD: CONTINUOUS FLIGHT AUGER	

PROJECT NAME: **Three Trails Storm Line** CLIENT: **NorthPoint Development**

PROJECT NUMBER: **G14-0968** LOCATION: **Kansas City, Missouri**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	FILL Limestone cobbles, gravel Olive to gray, weathered shale, gravel		0								
	Brown with gray, clay, silt, gravel		5								
	Dark gray with olive, shale, gravel		10								
			15								











BASE OF BORING AT 15.0 FEET

Draft

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1802 E. 123RD STREET OLATHE, KANSAS 66061	STARTED: 10/20/16	FINISHED: 10/20/16
WD	∇ Not Encountered		DRILL CO.: RC DRILLING	DRILL RIG: 550X
IAD	∇ Not Encountered		DRILLER: Ron	LOGGED BY: Zach
AD	∇ Not Performed		METHOD: CONTINUOUS FLIGHT AUGER	

PROJECT NAME **Three Trails Storm Line** CLIENT **NorthPoint Development**

PROJECT NUMBER **G14-0968** LOCATION **Kansas City, Missouri**

ELEVATION (ft)	MATERIAL DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/REMARKS
	ROOT ZONE		0								
	FILL		1.5'								
	<i>Gray, clay, gravel</i>		3.0'								
	<i>Brown to olive with gray, shale, gravel</i>		5								
			10								
	<i>Grayish brown to olive, weathered shale</i>		11.0'								
			15								
			20								
			25								
			25.0'								

BASE OF BORING AT 25.0 FEET

WATER LEVEL OBSERVATIONS		OLSSON ASSOCIATES 1802 E. 123RD STREET OLATHE, KANSAS 66061	STARTED: 10/20/16	FINISHED: 10/20/16
WD	∇ Not Encountered		DRILL CO.: RC DRILLING	DRILL RIG: 550X
IAD	∇ Not Encountered		DRILLER: Ron	LOGGED BY: Zach
AD	∇ Not Performed		METHOD: CONTINUOUS FLIGHT AUGER	