

DRAFT

PROJECT NUMBER: 075804.00

TEST PIT T100

AGE 1 OF 1

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company **PROJECT LOCATION:** East Lansing, Michigan

DATE STARTED: 1/11/17 COMPLETED: 1/11/17 EXCAVATION METHOD: Test Pit

CONTRA	ACTOR	E MLS Excavating EQUIPMENT:	Deere	-3105	G	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET)	SYMBOLIC	SURFACE ELEVATION: 850± FT PROFILE DESCRIPTION		SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	V HAND PENE. IN TORVANE SHEAR UNC.COMP. IN VANE SHEAR (PK) VANE SHEAR (REM) TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
-		FILL- Fine to Medium SILTY SAND- Trace Clay and Gravel- Brown- Moist (SM)	848.8						
-		FILL- Fine to Coarse SAND- Little Fly Ash Debris- Landfill Debris Layers- Hydrocarbon Odor- Black - Moist to Wet (SP)							
-845 <u>▼</u>		FILL- LEAN CLAY- Some Construction Debris (Wood, Concrete Slabs)- Brown and Black (CL)	845.0						
- 840 1	10 -	END OF TEST PIT AT 11.0 FEET.	839.0						
	-	ILLI.							

GROUNDWATER & BACKFIL	L INFORMA	ATION	NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be
	DEPTH (FT) ELEV (FT)	gradual. 2. Metallic contaminate staining observered on the groundwater.
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	5.0	845.0	2. Wetalie contaminate staining observered on the groundwater.
TAT END OF EXCAVATION:	5.0	845.0	
BACKFILL METHOD: Excavat	ion Spoils		



DRAFT TEST PIT T200 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

ELEVATION (FEET) ODEPTH (FEET) SYMBOLIC PROFILE 1 1 1 1 1 1 1 1 1 1 1 1 1	FILL- Fine to Medium SAND- Trace Silt- Black- Moist to Wet (SP)	850.8	SAMPLE TYPE/NO. INTERVAL RI OWS PER	SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) C	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	∀ HAND PENE. ⊠ TORVANE SHEAR ○ UNC.COMP. ▼ VANE SHEAR (PK) × VANE SHEAR (REM) ◆ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	રKS
- 850 - - - <u>√</u> 5- - <u>5.5</u>	Silt and Gravel- Brown- Moist (SP-SM) FILL- Fine to Medium SAND-Trace Silt- Black- Moist to Wet	850.8						
<u>√</u> 5.5								
-	FILL- LANDFILL & CONSTRUCTION DEBRIS-Brown and Black - Wet	846.5						
840	2.0 2.5 Fibrous PEAT- Brown- Soft (PT) END OF TEST PIT AT 12.5 FEET.	840.0 839.5						

GROUNDWATER & BACKFI	ILL INFORMA	TION	NOTES: 1. The indicated stratification lines are approximate.	In situ, the transition between materials may be
	DEPTH (FT)	ELEV (FT)	gradual.	
☑ DURING EXCAVATION:	5.5	846.5		

BACKFILL METHOD: Excavation Spoils

TAT END OF EXCAVATION: 5.5

846.5



DRAFT TEST PIT T300 PAGE 1 OF 1

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company

PROJECT NUMBER: 075804.00

PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

CONTRAC	JIUR:	MLS Excavating EQUIPMENT:	Deere	:-3105	G	LOGGED BY: JSW		CHECKED BY: BLE	
ELEVATION (FEET)	SYMBOLIC	SURFACE ELEVATION: 853± FT PROFILE DESCRIPTION		SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) - ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	V HAND PENE. ⊠ TORVANE SHEAR ○ UNC.COMP. □ VANE SHEAR (PK) × VANE SHEAR (REM) ⊕ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	MARKS
		FILL- Fine to Medium SAND with Silt and Gravel- Brown- Moist (SP-SM)	851.5						
- - - - 5		FILL- LEAN CLAY- Some Construction Debris (Asphalt Slabs)- Brown and Gray (CL)							
		6.0	847.0						
- ₩	-	FILL- Fine to Coarse SAND- Some Construction Debris (Asphalt Slabs, Concrete Slabs)- Brown and Black- Moist to Wet (SP)	844.0						
		END OF TEST IT AT 3.01 EET.							
10									
- 840	-								
15									
13									

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT) ELEV (FT)

abla DURING EXCAVATION: 7.0 846.0 ▼ AT END OF EXCAVATION: 846.0

BACKFILL METHOD: Excavation Spoils



DRAFT

PROJECT NUMBER: 075804.00

TEST PIT T400

PAGE 1 OF

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company **PROJECT LOCATION:** East Lansing, Michigan

DATE STARTED: 1/11/17 COMPLETED: 1/11/17 EXCAVATION METHOD: Test Pit

CONTRACTOR: MLS Excavating EQUIPMENT: Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

CONTRAC	TOR: MLS Excavating EQUIPMENT:	Deere-310SG	LOGGED BY: JSW	CHECKED BY: BLE
ELEVATION (FEET)	SURFACE ELEVATION: 853± FT PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) - ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40 TORVANE SHEAR (PK) Y VANE SHEAR (REM) TRIAXIAL (UU) SHEAR STRENGTH (KSF) TRIANIAL (SF) TRENGTH (KSF) TRENGTH (KSF)
- 850 - 5-	FILL- Fine to Medium SAND with Silt and Gravel- Brown- Moist (SP-SM) FILL- Sandy LEAN CLAY- Gray (CL) 3.0 Fill- Fine to Medium SAND with Silt- Little Construction Debris (Asphalt Slabs, Concrete Pipe Section)- Brown and Gray- Moist to Wet (SP-SM) 6.0 LEAN CLAY- Gray (CL)	852.0 850.0		
-845	END OF TEST PIT AT 8.0 FEET.	845.0		
- - 840				

GROUNDWATER & BACKFIL	L INFORMA	ATION	NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be
	DEPTH (FT) ELEV (FT)	gradual.
abla DURING EXCAVATION:	6.0	847.0	
▼ AT END OF EXCAVATION:	6.0	847.0	
BACKFILL METHOD: Excaval	ion Spoils		



PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

GROUNDWATER & BACKFILL INFORMATION

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **EXCAVATION METHOD:** Test Pit **COMPLETED:** 1/11/17

CONTRACTOR: MLS Excavating LOGGED BY: JSW CHECKED BY: BLE **EQUIPMENT:** Deere-310SG

Control Cont	CONTRAC	TOR:	MLS Excavating	EQUIPMENT:	Deere	e-310S	G	LOGGED BY:	JSW		CHECKED BY	: BLE
FILL - Fine to Medium SAND with Silt and Gravel- Brown Moist (SP-SM) FILL- Sandy LEAN CLAY- Brown and Gray (CL) FILL- Sandy LEAN CLAY- Brown and Gray (C	ELEVATION (FEET) DEPTH (FEET)	SYMBOLIC PROFILE				SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	PENETROMETER (DCP) O		(pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL ■ ■	□ TORVANE SHEAR □ UNC.COMP. □ VANE SHEAR (PK) ∨ VANE SHEAR (PEM)	REMARKS
Silt- Little Construction Debris (Concrete Slabs)- Trace Landfill Debris- Brown and Gray- Moist to Wet (SP-SM) 10.0 843.0 END OF TEST PIT AT 10.0 FEET.	-		Silt and Gravel- E (SP-SM) FILL- Sandy LEA and Gray (CL)	Brown- Moist								
END OF TEST PIT AT 10.0 FEET.	- -845 <u>\\</u> -		Silt- Little Constru (Concrete Slabs) Debris- Brown an	uction Debris								
			END OF TEST P	IT AT 10.0	843.0							

GROUNDWATER & BACKFILL INFORMATION	NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be
DEPTH (FT) ELEV (FT)	gradual.
☑ DURING EXCAVATION: 8.0 845.0	
▼ AT END OF EXCAVATION: 8.0 845.0	
BACKFILL METHOD: Excavation Spoils	



DRAFT TEST PIT T600 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 COMPLETED: 1/11/17 **EXCAVATION METHOD:** Test Pit

CONTRACTOR: MLS Excavating **FOUIPMENT:** Deere-310SG LOCGED BY: ISW CHECKED BY: DIE

CONTRA	CTOR:	MLS Excavating EQUIPMEN	IT: Deer	e-310SG	i 	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET)	SYMBOLIC PROFILE	SURFACE ELEVATION: 851± FT PROFILE DESCRIPTION		SAMPLE TYPE/NO. INTERVAL	BLOWS PEK SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 1	✓ HAND PENE. ☑ TORVANE SHEAR ○ UNC.COMP. □ VANE SHEAR (PK) ✓ VANE SHEAR (REM) ⊕ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
- 850		FILL- Sandy LEAN CLAY- Little Gravel- Brown (CL)	e 849.0						
-		FILL- LEAN CLAY- Trace Sand and Gravel- Brown and Gray (0							
- <u>X</u>	5-	FILL- LANDFILL DEBRIS- Broand Black- Moist to Wet			_				
-	_	7.5 END OF TEST PIT AT 7.5 FEE	843.5 ET.						
- 10 - 840	-				_				
-									
15	5								

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT) ELEV (FT)

abla DURING EXCAVATION: 5.5 845.5 ▼ AT END OF EXCAVATION: 845.5

BACKFILL METHOD: Excavation Spoils



DRAFT TEST PIT T700 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **EXCAVATION METHOD:** Test Pit **COMPLETED:** 1/11/17

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

	ONIKA	CTO	R: MLS Excavating EQUIPMENT :	Deere	-3105	G	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET)	, DEPTH (FEET)	SYMBOLIC	SURFACE ELEVATION: 851± FT PROFILE DESCRIPTION		SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	V HAND PENE. ☑ TORVANE SHEAR ○ UNC.COMP. ② VANE SHEAR (PK) VANE SHEAR (REM) ⊕ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
- 85	50		FILL- Fine to Medium SAND with Silt and Gravel- Brown- Moist (SP-SM)	849.5						
-	<u> </u>		FILL- LEAN CLAY- Trace Sand and Gravel- Brown and Gray (CL) 3.0	848.0						
- 84		5	FILL- CONSTRUCTION AND LANDFILL DEBRIS- Brown and Black - Moist to Wet			-				
	10)-	∑19.0 END OF TEST PIT AT 9.0 FEET.	842.0						
- 84	10	-								
	 15	5								

GROUNDWATER & BACKFILL	INFORMA	TION	NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be
	DEPTH (FT)	ELEV (FT)	gradual.
abla DURING EXCAVATION:	3.5	847.5	
▼ AT END OF EXCAVATION:	3.5	847.5	

BACKFILL METHOD: Excavation Spoils



DRAFT TEST PIT T800 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

LOGGED BY: JSW **CONTRACTOR:** MLS Excavating **EQUIPMENT:** Deere-310SG CHECKED BY: BLE

CONTRACTOR	MLS Excavating EQUIPMENT :	Deere-310S	G	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET) DEPTH (FEET) SYMBOLIC PROFILE	SURFACE ELEVATION: 851± FT PROFILE DESCRIPTION	SAMPLE TYPENO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) ○	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	V HAND PENE. ☑ TORVANE SHEAR ○ UNC.COMP. ☑ VANE SHEAR (PK) × VANE SHEAR (REM) ⊕ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
- 850	FILL- SAND with Silt- Black- Moist (SP-SM)	849.5					
- ™	FILL- LEAN CLAY- Gray (CL)	845.5					
- 845	FILL- CONSTRUCTION DEBRIS (Concrete Curb & Gutter Sections)- Trace Landfill Debris- Brown and Black - Moist to Wet						
-840	END OF TEST PIT AT 11.0 FEET.	840.0					

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT) ELEV (FT)

abla DURING EXCAVATION: 4.0 847.0 ▼ AT END OF EXCAVATION: 847.0

BACKFILL METHOD: Excavation Spoils



DRAFT TEST PIT T900 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

GROUNDWATER & BACKFILL INFORMATION

BACKFILL METHOD: Excavation Spoils

CLIENT: Eyde Company

PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **EXCAVATION METHOD:** Test Pit **COMPLETED:** 1/11/17

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

CONTR	AC	OR:	MLS Excavating EQUIPMENT :	Deere	-3105	G	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET)	ь DEРТН (FEET)	SYMBOLIC PROFILE	SURFACE ELEVATION: 855± FT PROFILE DESCRIPTION		SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40		REMARKS
- 850	5		FILL- Fine to Coarse SAND with Gravel- Some Fly Ash Debris-Black to Brown- Moist (SP) 1.5 FILL- LEAN CLAY- Gray (CL) FILL- LEAN CLAY- Frequent Debris Layers- Gray (CL)	853.5 853.0						
-	-		CLAYEY SAND- Gray- Moist to Wet (SC)	849.0						
- 845	10 -		9.0 LEAN CLAY- Gray (CL) 11.0 END OF TEST PIT AT 11.0 FEET.	846.0 844.0						
-	-15									

GROUNDWATER & BACKFIL	L INFORMA	TION	NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be
	DEPTH (FT)	ELEV (FT)	gradual.
abla During Excavation:	9.0	846.0	
▼ AT END OF EXCAVATION:	9.0	846.0	



DRAFT TEST PIT T1000 PAGE 1 OF 1

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company

PROJECT NUMBER: 075804.00

PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

LOGGED BY: JSW CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG CHECKED BY: BLE

CONTRACTOR:	MLS Excavating EQUIPME	ENT: Deere-310	SG	LOGGED BY: JSW	CHECKED BY:	BLE
ELEVATION (FEET) DEPTH (FEET) SYMBOLIC PROFILE	SURFACE ELEVATION: 857± FT PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTER/AL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	▼ HAND PENE. ☑ TORVANE SHEAR ○ UNC.COMP. ☑ VANE SHEAR (PK) × VANE SHEAR (REM) ♦ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
	FILL- CRUSHED ASPHALT FILL- Sandy LEAN CLAY- Br (CL) FILL- LEAN CLAY- Gray (CL 3.5	855.8				
- 5-	FILL- LEAN CLAY- Trace Construction Debris (Brick, S Cables)- Gray (CL)	Steel 849.5				
- 10 -	LEAN CLAY- Gray (CL) 9.0 END OF TEST PIT AT 9.0 F	848.0 EET.				
- 845 - 						
15						

GROUNDWATER & BACKFILL INFORMATION	1

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils



DRAFT TEST PIT T1100 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

CONTR	RACTO	R: MLS Excavating EQUIPMENT :	Deere-31	0SG	LOGGED BY: JSW		CHECKED BY:	SLE
ELEVATION (FEET)	SYMBOLIC	U 	SAMPLE TYPE/NO.	INTERVAL BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	▼ HAND PENE. ☑ TORVANE SHEAR ○ UNC.COMP. ☑ VANE SHEAR (PK) × VANE SHEAR (REM) ♣ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 (KSF)	REMARKS
-		FILL- ASPHALT with Crushed Asphalt 2.0 FILL- Fine to Medium SILTY	851.0					
- 850 -	5	SAND- Brown- Wet (SM) FILL- LANDFILL DEBRIS- Petroleum Odor- Brown and Black - Wet	850.0 848.0					
-		FILL- CONSTRUCTION DEBRIS (Concrete and Brick)- Petroleum Odor- Trace Landfill Debris- Brown and Black - Wet						
-845	- 10 -	END OF TEST PIT AT 8.0 FEET.	845.0					
-	-							
- 840 -								
	15				: : : :		: : : :	

GROUNDWATER & BACKFILI	LINFORMA	TION	NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be
DEPTH (FT) ELEV (FT)		ELEV (FT)	gradual. 2. Metallic contaminate staining observered on the groundwater.
abla DURING EXCAVATION:	2.0	851.0	2. Wetalile Contaminate Stalling Observered on the groundwater.
▼ AT END OF EXCAVATION:	2.0	851.0	

BACKFILL METHOD: Excavation Spoils



DRAFT TEST PIT T1200 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

CONTI	RACTO	DR: MLS Excavating EQUIPMENT:	Deere-3	105G	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET)	S DEPTH (FEET)	SURFACE ELEVATION: 854± FT PROFILE DESCRIPTION	SAMPI FTYPE/NO	INTERVAL BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) ○	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	▼ HAND PENE. ☑ TORVANE SHEAR ○ UNC.COMP. ② VANE SHEAR (PK) ★ VANE SHEAR (REM) ★ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
- - -850		FILL- Fine to Medium SILTY SAND- Brown and Black- Moist (SM) 2.5 FILL- LANDFILL DEBRIS- Brown and Black - Moist	851.5 850.5					
- 845	5	FILL- LEAN CLAY- Trace Construction Debris (Brick and Concrete)- Gray (CL)						
-	10 -	END OF TEST PIT AT 11.0 FEET.	843.0					
- 840	- - 15							

GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT) ELEV (FT)

abla DURING EXCAVATION: 7.0 847.0 ▼ AT END OF EXCAVATION: 847.0

BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. In situ, the transition between materials may be

gradual.



DRAFT TEST PIT T1300 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **EXCAVATION METHOD:** Test Pit **COMPLETED:** 1/11/17

CONTRACTOR: MLS Excavating LOGGED BY: JSW CHECKED BY: BLE **EQUIPMENT:** Deere-310SG

CONTRACTOR:	MLS Excavating EQUIPMENT :	Deere-310SG	LOGGED BY: JSW	CHECKED BY: BLE
ELEVATION (FEET) DEPTH (FEET) SYMBOLIC PROFILE	SURFACE ELEVATION: 852± FT PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL BLOWS PER	DYNAMIC CONE PENETROMETER (DCP) - O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40 AND PENE. ▼ HAND PENE. ▼ TORVANE SHEAR ▼ UNC.COMP. ▼ VANE SHEAR (PK) ▼ TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4 REMARKS
-850	FILL- Fine to Medium SILTY SAND- Brown and Black- Moist (SM) FILL- LEAN CLAY- Brown to Gray (CL)	851.0		
- 5-	6.0 FILL- CONSTRUCTION DEBRIS (Wood and Cinder Block)- Brown and Black - Wet	846.0 844.0		
- 10 -	END OF TEST PIT AT 8.0 FEET.	077.0		
- 840 -				

GROUNDWATER & BACKFIL	L INFORMA	TION	NOTES: 1. The indicated stratification lines are approximate.	In situ, the transition between materials may be
	DEPTH (FT)	ELEV (FT)	gradual.	
abla during excavation:	6.0	846.0		
▼ AT END OF EXCAVATION:	3.5	848.5		

BACKFILL METHOD: Excavation Spoils

GROUNDWATER & BACKFILL INFORMATION



DRAFT TEST PIT T1400 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

LOGGED BY: JSW CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG CHECKED BY: BLE

CONTRACTOR:	MLS Excavating EQUIPMENT : De	eere-310SG	LOGGED BY: JSW	CHECKED BY: BLE
ELEVATION (FEET) S DEPTH (FEET) SYMBOLIC PROFILE	SURFACE ELEVATION: 856± FT PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) O	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40 ATTERMENT (PK) TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4 N HAND PENE. TO VANE SHEAR (PK) TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4 REMARKS
- 855	FILL- Fine to Medium SILTY SAND- Brown and Black- Moist (SM)	54.8		
5-				
-850	FILL- LEAN CLAY- Trace Construction Debris (Asphalt Slabs, Brick, Clay Tile)- Gray (CL)			
- 10-				
-845	12.0 8 END OF TEST PIT AT 12.0	44.0		
	FEET.			
15				

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils



DATE STARTED: 1/11/17

DRAFT TEST PIT T1500 PAGE 1 OF 1

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company

PROJECT NUMBER: 075804.00

EXCAVATION METHOD: Test Pit

PROJECT LOCATION: East Lansing, Michigan

COMPLETED: 1/11/17

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

CONT	RAC	IOR:	MLS Excavating EQUIPMENT :	Deere	e-310S	G	LOGGED BY: JSW		CHECKED BY	BLE
FEET)	Ĺ				Ö.			DRY DENSITY (pcf) ■ 90 100 110 120	∀ HAND PENE. ⊠ TORVANE SHEAR	
ELEVATION (FEET)	обертн (РЕЕТ)	SYMBOLIC PROFILE	SURFACE ELEVATION: 856± FT PROFILE DESCRIPTION		SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) ○	MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	O UNC.COMP. VANE SHEAR (PK) X VANE SHEAR (REM) TRIAXIAL (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
- 855	-		FILL- Fine to Medium SILTY SAND- Some Fly Ash Debris- Brown and Black- Moist (SM)	855.0						
-			FILL- Sandy LEAN CLAY- Trace Construction Debris (Asphalt Slabs)- Brown (CL)							
			6.0	850.0						
- 850 - -	-		LEAN CLAY- Gray (CL) 9.0 END OF TEST PIT AT 9.0 FEET.	847.0						
	10 -									
- 845	-									
	-									
	-									
	— 15 —									
	-10-									

GROUNDWATER & BACKFILL INFORMATION	

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils



DRAFT TEST PIT T1600 PAGE 1 OF 1

PROJECT NUMBER: 075804.00

PROJECT NAME: Merritt Road Retail Park

CLIENT: Eyde Company PROJECT LOCATION: East Lansing, Michigan

DATE STARTED: 1/11/17 **COMPLETED:** 1/11/17 **EXCAVATION METHOD:** Test Pit

CONTRACTOR: MLS Excavating **EQUIPMENT:** Deere-310SG LOGGED BY: JSW CHECKED BY: BLE

	NIKAC	IUR:	MLS Excavating EQUIP	MENT: D	eere-s rus	SG .	LOGGED BY: JSW		CHECKED BY:	BLE
ELEVATION (FEET)	р ОЕРТН (РЕЕТ)	SYMBOLIC PROFILE	SURFACE ELEVATION: 860± FT PROFILE DESCRIPTIOI	N	SAMPLE TYPE/NO. INTERVAL	BLOWS PER SIX INCHES	DYNAMIC CONE PENETROMETER (DCP) ○	DRY DENSITY (pcf) ■ 90 100 110 120 MOISTURE & ATTERBERG LIMITS (%) PL MC LL 10 20 30 40	V HAND PENE. ⊠ TORVANE SHEAR ○ UNC.COMP. ■ VANE SHEAR (PK) × VANE SHEAR (REM) ⊕ TRIANIA (UU) SHEAR STRENGTH (KSF) 1 2 3 4	REMARKS
_	-		FILL- Fine to Medium SILT SAND- Brown- Moist (SM)		359.2					
_	-		FILL- Sandy LEAN CLAY- Construction Debris (Clay and Brick)- Occasional San Layers- Brown (CL)	Tile nd	256.0					
055	-		4.0		356.0					
- 855 -	; 5 - - -		LEAN CLAY- Trace Sand a Gravel- Gray (CL)	and						
850	-)10		10.0		350.0					
-	-		END OF TEST PIT AT 10. FEET.	U						
-	-									
-	-									
- 845	i 15 -									

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Excavation Spoils