DLZ
ARCHITECTURE • ENGINEERING • PLANNING
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EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

July 7, 2020

Peter Narsavage, P.E.
E.L. Robinson Engineering (ELR)
1801 Watermark Drive, Suite 310
Columbus, Ohio 43215

RE: Subsurface Exploration Data Report
SUM 76/77 Phase I + II

Dear Mr. Narsavage

DLZ American Drilling has completed the drilling and laboratory testing of soils from subsurface exploration of SUM 76/77. A plan of borings, boring summary sheet, pavement core photos, boring logs, grain size information, sulfate test data and GB-1 are attached. Boring logs are updated with the corrected alignment, and a copy of the gINT file is attached via email.

If you have any questions regarding the information provided, do not hesitate to contact us.

Sincerely,

Barry K. Wong, P.E.
Vice President

ATTACHMENTS

I. Table of Borings and Pavement Cores

II. Plan of Borings and Pavement Cores

III. Pavement Core Data

IV. Boring Logs

V. Grain Size Reports

VI. Sulfate Test Data

VII. GB-1 Subgrade Analysis Tab

TABLE OF BORINGS AND PAVEMENT CORES

Boring #	Boring Type	Road Name	Direction	Location
B-013-0-18	Roadway	I.R. 76 - MAINLINE	Eastbound	Gore Area of I.R. 76 & Northbound Ramp I-59
B-018-0-20	Roadway	I.R. 76 - MAINLINE	Westbound	Gore Area of I.R. 76 & Northbound Ramp W-10
B-002-0-18	Roadway	I.R. 76 - MAINLINE	Westbound	Gore Area of I.R. 76 & Ramp J
B-004-0-18	Roadway	I.R. 76 - MAINLINE	Eastbound	Inside Shoulder of I.R. 76
P-004-0-18	Pavement Core	I.R. 76 - MAINLINE	Eastbound	Inside Shoulder of I.R. 76
P-008-0-18	Pavement Core	I.R. 76 - MAINLINE	Eastbound	Inside Shoulder of I.R. 76
B-010-0-18	Structure	I.R. 76 - MAINLINE	Westbound	Inside Shoulder of I.R. 76
B-009-1-19	Structure	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
B-009-2-19	Structure	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
B-014-1-19	Structure	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
B-014-2-19	Structure	W. Bowery St	Northbound	North side of I.R. 76 overpass
B-014-3-19	Structure	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
B-014-4-19	Structure	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
B-020-0-20	Roadway	I.R. 76 - MAINLINE	Westbound	Inside Shoulder of I.R. 76
B-003-0-18	Roadway	I.R. 76 - RAMP L	Eastbound	Inside Shoulder of Ramp L
B-005-0-18	Roadway	I.R. 76 - RAMP L	Eastbound	Inside Shoulder of Ramp L
B-007-0-18	Roadway	I.R. 76 - MAINLINE	Eastbound	Lane 1 of I.R. 76
B-011-0-18	Roadway	I.R. 76 - MAINLINE	Eastbound	Lane 1 of I.R. 76
B-019-0-20	Roadway	I.R. 76 - MAINLINE	Eastbound	Lane 1 of I.R. 76
B-006-0-18	Roadway	I.R. 76 - MAINLINE	Westbound	Lane 1 of I.R. 76
B-014-0-20	Structure	I.R. 76 - MAINLINE	Westbound	Lane 1 of I.R. 76
B-012-0-18	Roadway	I.R. 76 - MAINLINE	Westbound	Lane 4 of I.R. 76
B-009-0-18	Structure	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
B-017-0-18	Roadway	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
P-001-0-18	Pavement Core	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
P-005-0-18	Pavement Core	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
P-006-0-18	Pavement Core	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
P-010-0-18	Pavement Core	I.R. 76 - MAINLINE	Eastbound	Outside Shoulder of I.R. 76
B-008-0-18	Roadway	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
B-015-0-20	Structure	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
P-003-0-18	Pavement Core	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
P-007-0-18	Pavement Core	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
P-009-0-18	Pavement Core	I.R. 76 - MAINLINE	Westbound	Outside Shoulder of I.R. 76
B-001-0-18	Roadway	I.R. 76 - RAMP J	Westbound	Outside Shoulder of Ramp J
P-002-0-18	Pavement Core	I.R. 76 - Ramp J	Westbound	Outside Shoulder of Ramp J
B-016-0-20	Roadway	I.R. 76 - RAMP W11	Eastbound	Outside Shoulder of W-11
SUSPEND PROJECT				

Boring #	Boring Type	Road Name	Direction	Location
P-025-0-18	Pavement Core	I.R. 77 - Gore Area	Northbound	Gore Area of I.R. 77
B-024-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Gore Area of I.R. 77 & Ramp S-11
B-023-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Gore Area of I.R. 77 & Ramp S-12
B-033-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Gore Area of I.R. 77 & Ramp S-7
B-031-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Inside Shoulder of I.R. 77
B-039-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Inside Shoulder of I.R. 77
P-026-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Inside Shoulder of I.R. 77
P-030-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Inside Shoulder of I.R. 77
B-028-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Inside Shoulder of I.R. 77
B-036-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Inside Shoulder of I.R. 77
P-012-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Inside Shoulder of I.R. 77
P-029-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Inside Shoulder of I.R. 77
P-036-0-18	Pavement Core	I.R. 77 - Ramp S-11	Northbound	Inside Shoulder of Ramp S-11
B-027-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Lane 1 of I.R. 77
B-035-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Lane 1 of I.R. 77
B-043-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Lane 1 of I.R. 77
B-032-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Lane 1 of I.R. 77
B-021-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Lane 3 of I.R. 77
B-029-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Lane 3 of I.R. 77
B-037-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Lane 3 of I.R. 77
B-022-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Lane 3 of I.R. 77
B-030-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Lane 3 of I.R. 77
B-042-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Lane 4 of I.R. 77
B-025-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
B-041-0-18	Roadway	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
P-013-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
P-016-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
P-020-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
P-021-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
P-028-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
P-035-0-18	Pavement Core	I.R. 77 - MAINLINE	Northbound	Outside Shoulder of I.R. 77
B-026-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
B-034-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
B-038-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
B-040-0-18	Roadway	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
P-011-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
P-019-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
P-024-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
P-027-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
P-034-0-18	Pavement Core	I.R. 77 - MAINLINE	Southbound	Outside Shoulder of I.R. 77
P-022-0-18	Pavement Core	I.R. 77 - Ramp S10	Southbound	Outside Shoulder of Ramp S10
P-032-0-18	Pavement Core	I.R. 77 - Ramp S-11	Northbound	Outside Shoulder of Ramp S-11
P-037-0-18	Pavement Core	I.R. 77 - Ramp S-11	Northbound	Outside Shoulder of Ramp S-11
P-031-0-18	Pavement Core	I.R. 77 - Ramp S-12	Southbound	Outside Shoulder of Ramp S-12
P-033-0-18	Pavement Core	I.R. 77 - Ramp S-12	Southbound	Outside Shoulder of Ramp S-12
P-015-0-18	Pavement Core	I.R. 77 - Ramp S5	Northbound	Outside Shoulder of Ramp S5
P-018-0-18	Pavement Core	I.R. 77 - Ramp S5	Northbound	Outside Shoulder of Ramp S5
P-014-0-18	Pavement Core	I.R. 77 - Ramp S6	Southbound	Outside Shoulder of Ramp S6
P-017-0-18	Pavement Core	I.R. 77 - Ramp S6	Southbound	Outside Shoulder of Ramp S6
P-023-0-18	Pavement Core	I.R. 77 - Ramp S9	Northbound	Outside Shoulder of Ramp S9

PLAN OF BORINGS AND PAVEMENT CORES

SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

RUSSEL AVE

P-002-0-18

B-001-0-18

ROSAMOND AVE

BEGIN PROJECT

B-002-0-18

P-003-0-18

B-006-0-18

I.R. 76

B-004-0-18

B-005-0-18

P-001-0-18

B-003-0-18

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 1/14

SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

FULTZ ST
HITE ST
MANCHESTER RD
RUSSEL AVE
RUSSEL AVE
B-010-0-18
P-005-0-18
SOUTH ST
I.R. 76
B-008-0-18
B-009-0-18
P-004-0-18
B-007-0-18
LAKEMONT AVE

SOIL BORING LOCATION
PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 2/14

SUM-76/77
PID 102329
SOIL BORING PLAN

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

LAUREL AVE

TAYLOR ST

RUSSEL AVE

P-007-0-18

B-014-0-18

B-012-0-18

B-013-0-18

I.R. 76

P-006-0-18

B-011-0-18

SOUTH ST

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 3/14

SUM-76/77
PID 102329
SOIL BORING PLAN

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

BOULEVARD ST
RHODES AVE
RUSSEL AVE
B-015-0-18
B-018-0-18
I.R. 76
P-008-0-18
B-017-0-18
B-016-0-18
W SOUTH ST
LAKESHORE BLVD

SOIL BORING LOCATION
PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 4/14

SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

AMHERST ST

RUSSELL AVE

P-009-0-18

B-020-0-18

I.R. 76

PRINCETON ST

B-019-0-18

P-010-0-18

SUSPEND PROJECT

W SOUTH ST

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
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SUM-76/77
PID 102329
SOIL BORING PLAN

LOVERS LN

P-012-0-18

P-013-0-18

RESUME PROJECT

B-043-0-18

P-011-0-18

I.R. 77

COVENTRY ST

B-042-0-18

STANTON AVE

B-041-0-18

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0' INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 6/14

SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

COLE AVE

B-040-0-18

BURKHARDT AVE

I.R. 77

COVENTRY ST

B-039-0-18

P-014-0-18

P-015-0-18

EVA AVE

EVA AVE

B-038-0-18

P-016-0-18

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 7/14

SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

P-017-0-18
P-018-0-18
B-037-0-18
P-019-0-18
B-036-0-18
P-020-0-18

CLIFFORD AVE
CLIFFORD AVE
BURKHARDT AVE
I.R. 77
COVENTRY ST
ARCHWOOD AVENUE
ARCHWOOD AVENUE

SOIL BORING LOCATION
PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1:50
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SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

B-035-0-18

I.R. 77

COVENTRY ST

N FIRESTONE BLVD

N FIRESTONE BLVD

N FIRESTONE BLVD

BURKHARDT AVE

B-034-0-18

P-021-0-18

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
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SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

REED AVE

REED AVE

B-033-0-18

I.R. 71

BURKHARDT AVE

ALLENDALE AVE

TRIPLETT BLVD

B-032-0-18

B-031-0-18

CYPRESS AVE

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
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SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

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CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

B-031-0-18

E WILBETH RD

B-030-0-18

I.R. 77

PALMETTO AVE

PALMETTO AVE

COVENTRY ST

P-022-0-18

B-029-0-18

P-023-0-18

P-024-0-18

ALLENDALE AVE

DONALD AVE

BARBARA AVE

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
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SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

P-025-0-18
P-026-0-18
B-028-0-18
P-027-0-18
P-028-0-18
B-027-0-18
B-026-0-18

HIGHVIEW AVE
INA AVE
CATAWBA AVE
W CATAWBA AVE
E CATAWBA AVE
COVENTRY ST
I.R. 77
ALLENDALE AVE

SOIL BORING LOCATION
PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 12/14

SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

CLINTON AVE
I.R. 77
THOREAU AVE
HIGHVIEW AVE
COVENTRY ST
ALLENDALE AVE
HAMMEL ST
ELBUR AVE
PRENTISS AVE
PRENTISS AVE

B-025-0-18
P-029-0-18
P-030-0-18
B-024-0-18
P-031-0-18
P-032-0-18
B-023-0-18

SOIL BORING LOCATION
PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
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SUM-76/77
PID 102329
SOIL BORING PLAN

NOTE:

THE SAMPLING REQUIREMENTS FOR THESE BORINGS IS AS FOLLOWS:

CORE PAVEMENT (NOMINAL 12.0" INCHES)
STARTING AT 1.0' BELOW TOP OF PAVEMENT, CONTINUOUS 18", SAMPLING TO DEPTH OF 7.0'
STANDARD ODOT LAB TESTING

B-022-0-18

I.R. 77

COVENTRY ST

HIGHVIEW AVE

ALLENDALE AVE

P-033-0-18

B-021-0-18

P-035-0-18

P-034-0-18

P-036-0-18

P-037-0-18

END PROJECT

E WATERLOO RD

E WATERLOO RD

SOIL BORING LOCATION

PAVEMENT CORE LOCATION

VERSION = 2018-11-16
SCALE = 1":100'
PAGE 14/14

BORING #	NORTHING	EASTING	LATITUDE	LONGITUDE
B-009-1-18	509372.115	2230252.173	41.060889	-81.550787
B-009-2-18	509561.49	2230416.000	41.061404	-81.550185

SUM-76/77
PID 102329
SOIL BORING PLAN

B-009-2-18

B-009-1-18

TARGET BORING LOCATION

SOUTH ST.

VERSION = 2019-07-30
SCALE = 1":100'
PAGE 1/2

BORING #	NORTHING	EASTING	LATITUDE	LONGITUDE
B-014-1-18	509885.146	232466.713	41.062207	-81.542801
B-014-2-18	509893.756	2232596.812	41.062251	-81.542264
B-014-3-18	509862.958	2232971.739	41.062155	-81.540906
B-014-4-18	509867.942	2233182.295	41.062162	-81.540142

SUM-76/77
PID 102329
SOIL BORING PLAN

Scheck St
Scheck St
Schumacher Ave
A J's Drive Thru
Bowery Street Autobody
W Bowery St
WEST BOWERY ST.
W Bowery St
Rhodes Ave
Russell Ave
Russell Ave
B-014-1-18
B-014-2-18
B-014-3-18
B-014-4-18
77
77
76
77
South St
South St
South St
W South St
W South St
W South St
LAKESHORE RD.
Lake Shore
Penn Ave
TARGET BORING LOCATION

VERSION = 2019-07-30
SCALE = 1":100'
PAGE 2/2

PAVEMENT CORE DATA

B-004-0-18

B-007-0-18

B-010-0-18

B-011-0-18

B-012-0-18

B-013-0-18

B-015-0-18

B-016-0-18

B-017-0-18

B-021-0-18

B-022-0-18

B-023-018

B-024-0-18

B-025-0-18

B-026-0-18

B-027-0-18

B-028-0-18

B-029-0-18

B-030-0-18

B-031-0-18

B-032-0-18

B-033-0-18

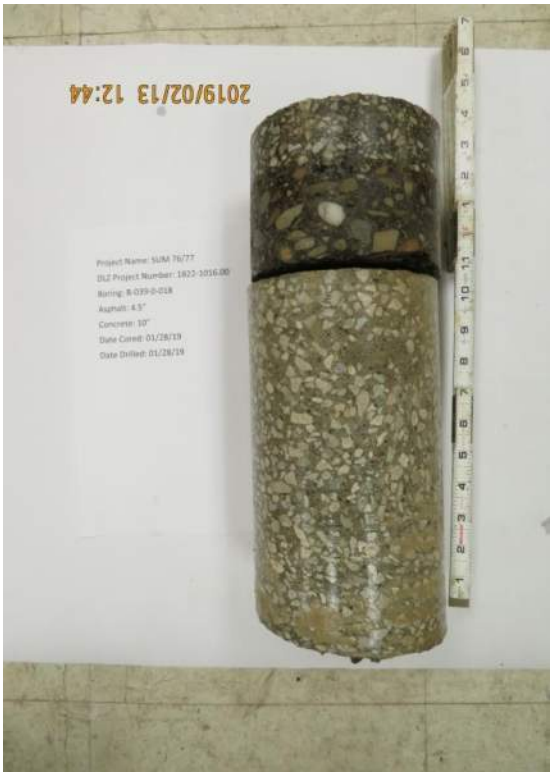
B-034-0-18

B-035-0-18

B-036-0-18

B-037-0-18

B-038-0-18



B-039-0-18

B-040-0-18

B-041-0-18

B-042-0-18

B-043-0-18

	Asphalt	Concrete
B-04-018	7.25"	
B-07-018	6.5"	
B-10-018	13"	
B-11-018	7"	9"
B-12-018	6.5"	
B-13-018	2.5"	9"
B-15-018	13.5"	
B-16-018	4'	
B-17-018	8"	
B-21-018	3"	8"
B-22-018	3.5"	8"
B-23-018	5.5"	9.5"
B-24-018	5.25"	9.5"
B-25-018	3.25"	8"
B-26-018	4"	9.5"
B-27-018	2"	10.5"
B-28-018	5"	9.5'
B-29-018	4"	8.5"
B-30-018	4.25"	8"
B-31-018	3.5"	9.5"
B-32-018	2"	9"
B-33-018	4"	9"
B-34-018	3.5"	9"
B-35-018	4.5"	9"
B-36-018	3.5"	8"
B-37-018	3.5"	9.5"
B-38-018	4"	11.5"
B-39-018	4"	9"
B-40-018	4"	8"
B-41-018	5"	9.5"
B-42-018	4"	8"
B-43-018	4"	9"

	Asphalt	Concrete
P--01-018	7.5"	
P-02-018	1.25"	8.5"
P-03-018	6"	
P-04-018	12"	
P-05-018	11"	
P-06-018	9.5"	
P-07-018	8.5"	
P-08-018	13.5"	
P-09-018	4"	9.5"
P-10-018	13.5"	
P-11-018	4"	9.5"
P-12-018	3.5"	9.5"
P-13-018	6"	9"
P-14-018	3"	8"
P-15-018	5"	9.5"
P-16-018	5.25"	8.5"
P-17-018	1.5"	8"
P-18-018	2.5"	9"
P-19-018	5.5"	8"
P-20-018	4"	8"
P-21-018	5"	7.5"
P-22-018	2.5"	
P-23-018	2"	9"
P-24-018	5.25"	9.5"
P-25-018	6"	10"
P-26-018	4.5"	9.5"
P-27-018	3.5"	8.25"
P-28-018	3.5"	8.5"
P-29-018	2"	10"
P-30-018	4"	10"
P-31-018	1.5"	8.5"
P-32-018	2"	8.5"
P-33-018	2"	8.5"
P-34-018	3.5"	10"
P-35-018	3"	7.5"
P-36-018	9"	
P-37-018	9"	

BORING LOGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:12 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 248+32, 8' RT.	EXPLORATION ID B-004-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1067.5 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/9/19 END: 1/9/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509049.8400 N, 2228743.2300 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT 7.25" ASPHALT	1067.5 / 1066.5																	
LOOSE TO MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, WET	1065.0	1	5 6 7	19	44	SS-1	-	39	36	18	- 7 -		NP	NP	NP	11	A-1-b (0)	
STIFF TO VERY STIFF, DARK GRAY, **SANDY SILT**, LITTLE GRAVEL, CONTAINS MICA, DAMP	1062.0	2 3 4 5	5 7 8	22	67	SS-2	-	18	6	8	43	25	26	17	9	9	A-4a (7)	
			5 10 11	30	83	SS-3	4.5+	-	-	-	-	-	-	-	-	7	A-4a (V)	
HARD, DARK GRAY, **SANDY SILT**, TRACE GRAVEL, CONTAINS MICA, DAMP						4A	4.5+	-	-	-	-	-	-	-	-	8	A-4a (V)	
SHALE, GRAY, DECOMPOSED TO SEVERELY WEATHERED. @6.0'-7.0', CONTAINS GRAY SHALE	1060.5	EOB 6 7	22 55 55	160	- 100	4B	-	-	-	-	-	-	-	-	-	-	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:12 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 256+21, 10' RT.	EXPLORATION ID B-007-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1049.3 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/9/19 END: 1/9/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509178.8300 N, 2229521.6800 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT 6.5" of asphalt	1049.3 1048.3																	
STIFF TO VERY STIFF, DARK GRAY, **SANDY SILT**, SOME GRAVEL, CONTAINS MICA, DAMP	1045.3	1 2 3	5 6 7	19	56	SS-1	-	50	5	5	26	14	29	19	10	7	A-4a (1)	
			5 6 7	19	44	SS-2	-	9	7	16	42	26	25	16	9	16	A-4a (7)	
VERY STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, CONTAINS MICA, DAMP	1043.8	4 5	4 2 3	7	39	SS-3	2.50	-	-	-	-	-	-	-	-	14	A-4a (V)	
VERY STIFF, BROWN, **SILTY CLAY**, TRACE GRAVEL, CONTAINS MICA, DAMP	1042.3	6 EOB 7	1 2 1	4	22	SS-4	3.75	-	-	-	-	-	-	-	-	10	A-6b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 266+15, 64' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MIDDLETON	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1012.8 (MSL) EOB: 60.0 ft.
START: 10/30/19 END: 10/30/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 509425.6900 N, 2230486.8800 E

EXPLORATION ID B-009-1-19

MATERIAL DESCRIPTION AND NOTES	ELEV. 1012.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
	1011.8																	
LOOSE, BROWN, **COARSE AND FINE SAND**, AND GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS ASPHALT FRAGMENTS, MOIST	1010.3	1	6 2 2	6	89	SS-1	-	42	23	27	- 8 -		-	-	-	13		
LOOSE, GRAY, **SANDY SILT**, LITTLE GRAVEL, LITTLE CLAY, DAMP	1008.8	3	3 2 2	6	67	SS-2	-	12	12	15	43	18	24	18	6	13	A-4a (5)	
LOOSE, GRAY AND BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, DAMP		4	2 2 2	6	83	SS-3	-	22	9	14	36	19	22	15	7	12	A-4a (4)	
		6	3 2 3	7	11	SS-4	-	23	8	9	41	19	25	16	9	11	A-4a (5)	
	1004.3	8																
VERY LOOSE, GRAY, **SANDY SILT**, SOME GRAVEL, SOME CLAY, CONTAINS SHALE FRAGMENTS, DAMP	1001.8	9	2 1 2	4	89	SS-5	-	21	9	17	33	20	22	15	7	12	A-4a (4)	
MEDIUM DENSE, BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, DAMP	999.3	12	1 5 5	14	72	SS-6	-	21	7	10	43	19	26	18	8	12	A-4a (5)	
MEDIUM STIFF, GRAY, **SILT AND CLAY**, LITTLE GRAVEL, SOME SAND, DAMP	996.8	14	3 3 3	8	56	SS-7	-	13	9	13	51	14	29	18	11	13	A-6a (6)	
LOOSE, BROWN TO GRAY, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, DAMP		17	1 3 3	8	106	SS-8	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
		19	2 2 2	6	89	SS-9	-	26	12	13	31	18	25	18	7	13	A-4a (3)	
	989.3	22	4 4 3	10	100	SS-10	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
DENSE, BROWN, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, CONTAINS SANDSTONE FRAGMENTS, DAMP	984.3	24	8 17 10	38	94	SS-11	-	19	18	18	25	20	NP	NP	NP	10	A-4a (2)	
MEDIUM DENSE, BROWN, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		29	4 7 7	20	94	SS-12	-	1	6	83	- 10 -		-	-	-	4	A-3 (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 266+15, 64' RT.	START: 10/30/19	END: 10/30/19	PG 2 OF 2	B-009-1-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
MEDIUM DENSE, BROWN, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP *(continued)*	982.8	31 32 33																
MEDIUM DENSE, BROWN, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, DAMP	979.3	34 35 36 37 38	6 10 10	28	100	SS-13	-	8	5	43	30	14	NP	NP	NP	14	A-4a (2)	
LOOSE TO MEDIUM DENSE, BROWN, **SANDY SILT**, SOME GRAVEL, TRACE CLAY, DAMP	974.3	39 40 41 42 43	4 11 11	31	94	SS-14	-	26	16	22	24	12	19	16	3	10	A-4a (0)	
	964.3	44 45 46 47 48	4 2 5	10	89	SS-15	-	-	-	-	-	-	-	-	-	19	A-4a (V)	
VERY DENSE, GREY, **STONE FRAGMENTS SHALE**.	962.8	TR 49	50/2"	-	100	SS-16	-	-	-	-	-	-	-	-	-	14	Rock (V)	
SANDSTONE, GREY, SLIGHTLY TO MODERATELY WEATHERED, SLIGHTLY TO MODERATELY STRONG, FINE GRAINED, LAMINATED TO THIN BEDDED, HIGHLY FRACTURED; RQD 25%.	959.8	50 51 52	25		92	NQ2-1 NQ2-R-1											CORE	
SANDSTONE, GREY, SLIGHTLY TO MODERATELY WEATHERED, SLIGHTLY TO MODERATELY STRONG, FINE GRAINED, LAMINATED TO THIN BEDDED, HIGHLY FRACTURED; RQD 53%.	954.8	53 54 55 56 57	53		95	NQ2-2 NQ2-R-2											CORE	
SANDSTONE, GREY, SLIGHTLY TO MODERATELY WEATHERED, SLIGHTLY TO MODERATELY STRONG, FINE GRAINED, LAMINATED TO THIN BEDDED, HIGHLY FRACTURED; RQD 62%.	952.8	58 59 EOB 60	63		100	NQ2-3 NQ2-R-3											CORE	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; TREMIED BENTONITE GROUT

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 10/28/19 END: 10/29/19

DRILLING FIRM / OPERATOR: DLZ-AD / DEARING
SAMPLING FIRM / LOGGER: DLZ / MIDDLETON
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: '19 CME 75-079-797
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 8/15/19
ENERGY RATIO (%): 83.7

STATION / OFFSET: 268+29, 65' LT.
ALIGNMENT:
ELEVATION: 1006.3 (MSL) EOB: 98.9 ft.
COORD: 509615.1100 N, 2230650.7300 E

EXPLORATION ID B-009-2-19

MATERIAL DESCRIPTION AND NOTES	ELEV. 1006.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
CONCRETE	1005.3	1																
LOOSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, LITTLE SILT, LITTLE CLAY, DAMP	1003.8	2	10 3 3	8	89	SS-1	-	7	59	12	- 22 -		-	-	-	10	A-3a (V)	
DENSE TO VERY DENSE, BROWN, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, DAMP	1000.8	3 4 5	2 18 50	95	28	SS-2	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		5 6	10 6 6	17	83	SS-3	-	15	8	15	37	25	24	16	8	12	A-4a (5)	
STIFF, BROWN AND GRAY, **SILT AND CLAY**, TRACE GRAVEL, LITTLE SAND, DAMP	995.3	6 7 8	3 3 5	11	83	SS-4	-	6	4	12	46	32	28	16	12	15	A-6a (9)	
		9 10	2 4 4	11	100	SS-5	-	-	-	-	-	-	-	-	-	20	A-6a (V)	
MEDIUM DENSE, GRAY, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, DAMP	992.8	11 12 13	3 3 5	11	89	SS-6	-	15	5	15	37	28	28	18	10	17	A-4a (6)	
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, LITTLE GRAVEL, TRACE SAND, TRACE CLAY, DAMP	987.8	14 15 16	2 3 3	8	94	SS-7	-	-	-	-	-	-	-	-	-	11	A-4b (V)	
		17	3 6 6	17	83	SS-8	-	-	-	-	-	-	-	-	-	12	A-4b (V)	
STIFF TO VERY STIFF, GRAY, **SILT AND CLAY**, TRACE GRAVEL, LITTLE SAND, DAMP	977.8	18 19 20	3 9 8	24	89	SS-9	-	5	4	13	50	28	28	16	12	15	A-6a (9)	
		21 22 23	3 6 7	18	100	SS-10	-	-	-	-	-	-	-	-	-	15	A-6a (V)	
		24 25 26 27 28	3 4 6	14	89	SS-11	-	-	-	-	-	-	-	-	-	14	A-6a (V)	
		29	5 7 5	17	100	SS-12	-	21	34	30	- 15 -		-	-	-	7	A-3a (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 268+29, 65' LT.	START: 10/28/19	END: 10/29/19	PG 2 OF 4	B-009-2-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
LOOSE TO MEDIUM DENSE, DARK BROWN, **COARSE AND FINE SAND**, SOME GRAVEL, TRACE SILT, TRACE CLAY, DAMP *(continued)*	976.3	31 32 33 34 35 36 37 38 39 40 41 42 43	1 2 2	6	100	SS-13	-	-	-	-	-	-	-	-	-	5	A-3a (V)	
			2 4 6	14	89	SS-14	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
	962.8																	
MEDIUM DENSE, BROWN, **SILT**, AND SAND, TRACE CLAY, WET		44 45 46 47 48	11 11 10	29	83	SS-15	-	0	0	35	56	9	NP	NP	NP	20	A-4b (6)	
	957.8																	
MEDIUM DENSE, BROWN, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, MOIST		49 50 51 52 53	12 8 8	22	100	SS-16	-	6	15	73	- 6 -		-	-	-	19	A-3 (V)	
	952.8																	
DENSE, BROWN, **COARSE AND FINE SAND**, AND GRAVEL, TRACE SILT, TRACE CLAY, MOIST		54 55 56 57 58	19 23 12	49	100	SS-17	-	43	34	10	- 13 -		-	-	-	10	A-1-b (V)	
	947.8																	
DENSE, GRAY, **SILT**, LITTLE SAND, LITTLE CLAY, DAMP		59 60 61	11 14 15	40	78	SS-18	-	-	-	-	-	-	-	-	-	21	A-4b (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 268+29, 65' LT.	START: 10/28/19	END: 10/29/19	PG 3 OF 4	B-009-2-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE, GRAY, **SILT**, LITTLE SAND, LITTLE CLAY, DAMP *(continued)*	944.2	63																
		64	8 12 12	33	89	SS-19	-	0	0	12	77	11	NP	NP	NP	21	A-4b (8)	
		65																
		66																
		67																
		68																
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, LITTLE TO SOME SAND, TRACE GRAVEL, LITTLE CLAY, WET	937.8	69	8 7 7	20	100	SS-20	-	-	-	-	-	-	-	-	-	25	A-4b (V)	
		70																
		71																
		72																
		73																
		74	4 3 3	8	78	SS-21	-	-	-	-	-	-	-	-	-	27	A-4b (V)	
		75																
		76																
		77																
		78																
		79	1 1 2	4	67	SS-22	-	-	-	-	-	-	-	-	-	21	A-4b (V)	
		80																
		81																
		82																
		83																
		84	4 4 4	11	94	SS-23	-	8	18	5	50	19	23	19	4	22	A-4b (7)	
		85																
		86																
		87																
		88																
		89	1 6 11	24	89	SS-24	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
		90																
		91																
		92																
		93																
		94	50/5"	-	100	SS-25	-	-	-	-	-	-	-	-	-	9	A-4b (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 268+29, 65' LT.	START: 10/28/19	END: 10/29/19	PG 4 OF 4	B-009-2-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, LITTLE TO SOME SAND, TRACE GRAVEL, LITTLE CLAY, WET *(continued)*	912.0	95 96 97 98																
	907.4	EOB	50/5"	-	100	SS-26	-	-	-	-	-	-	-	-	-	9	A-4b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; TREMIED BENTONITE GROUT

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 269+83, 6' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 999.7 (MSL) EOB: 7.0 ft.
START: 1/9/19 END: 1/9/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509604.2900 N, 2230816.3300 E

EXPLORATION ID B-010-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 999.7	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT 13" of asphalt	998.6																	
VERY STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, SOME CLAY, CONTAINS GRAY SHALE FRAGMENTS, DAMP	997.2	1 2	13 6 5	16	28	SS-1	- -	- 9	- 7	- 14	- 44	- 26	- 25	- 16	- 9	- 14	A-4a (7)	
HARD, BROWN, **SILT AND CLAY**, SOME GRAVEL, SOME SAND, CONTAINS SHALE AND SANDSTONE FRAGMENTS, DAMP		3 4	6 13 50	91	50	SS-2	-	31	13	13	30	13	32	21	11	12	A-6a (2)	
		5	9 10 11	30	61	SS-3	4.50	-	-	-	-	-	-	-	-	14	A-6a (V)	
	992.7	EOB 6 7	7 5 3	12	39	SS-4	-	-	-	-	-	-	-	-	-	15	A-6a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:12 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 275+18, 12' RT.	EXPLORATION ID B-011-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 981.7 (MSL) EOB: 8.5 ft.	PAGE 1 OF 1
START: 1/9/19 END: 1/9/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509714.0900 N, 2231339.5000 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 981.7	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 7" of asphalt and 9" of concrete	980.4	1																
VERY STIFF, BROWN, **SILT**, TRACE GRAVEL, LITTLE SAND, SOME CLAY, CONTAINS MICA, DAMP		2	3 3 9	17	50	SS-1	- -	- 7	- 4	- 7	- 56	- 26	- 27	- 19	- 8	- 13	A-4b (8)	
VERY STIFF TO HARD, BROWN, **SANDY SILT**, TRACE GRAVEL, CONTAINS BRICK FRAGMENTS, CONTAINS MICA, DAMP	977.7	3	3 7 6	19	61	SS-2	-	5	7	15	42	31	26	16	10	13	A-4a (8)	
		4	5 6 12	26	67	SS-3	3.00	-	-	-	-	-	-	-	-	15	A-4a (V)	
		5	6 11 10	30	56	SS-4	4.50	-	-	-	-	-	-	-	-	14	A-4a (V)	
@7'-8.5', DARK GRAYISH BROWN	973.2	6	5 10 9	28	89	SS-5	-	-	-	-	-	-	-	-	-	13	A-4a (V)	
	EOB	7																
		8																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:12 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 1/22/19 END: 1/22/19

DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN
SAMPLING FIRM / LOGGER: DLZ / VOLLBORN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME45 RENTAL
HAMMER: CME AUTOMATIC
CALIBRATION DATE: N/A
ENERGY RATIO (%): 72

STATION / OFFSET: 279+11, 64' LT.
ALIGNMENT:
ELEVATION: 979.3 (MSL) EOB: 8.5 ft.
COORD: 509852.1000 N, 2231717.5600 E

EXPLORATION ID B-012-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV. 979.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT 6.5" of asphalt	978.3																	
MEDIUM DENSE, DARK BROWNISH BLACK, **GRAVEL AND STONE FRAGMENTS**, RACE SILT, TRACE CLAY, DAMP	976.8	1	10 10 7	20	56	SS-1	-	70	17	8	- 5 -		NP	NP	NP	5	A-1-a (0)	
MEDIUM DENSE, DARK BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, CONTAINS MICA, DAMP	975.3	2 3	9 5 5	12	39	SS-2	-	24	15	25	22	14	20	16	4	11	A-4a (0)	
VERY STIFF TO HARD, BROWN, **SILT AND CLAY**, TRACE GRAVEL, CONTAINS STONES, DAMP		4	3 8 8	19	67	SS-3	4.50	-	-	-	-	-	-	-	-	13	A-6a (V)	
@5.5'-8.5', CONTAINS TRACE SANDSTONE AND BRICK FRAGMENTS		5 6	4 8 7	18	56	SS-4	3.75	-	-	-	-	-	-	-	-	12	A-6a (V)	
	970.8	7 8 EOB	7 10 8	22	72	SS-5	3.00	-	-	-	-	-	-	-	-	12	A-6a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:12 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 283+09, 56' RT.	EXPLORATION ID B-013-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 980.5 (MSL) EOB: 8.5 ft.	PAGE 1 OF 1
START: 1/10/19 END: 1/10/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509769.0300 N, 2232124.9100 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 2.5" of asphalt 9" of concrete	980.5 979.5																	
LOOSE TO MEDIUM DENSE, REDDISH BROWN, **SANDY SILT**, LITTLE GRAVEL, LITTLE CLAY, CONTAINS MICA, DAMP **(FILL)**	978.0	1 2	5 7 8	22	67	SS-1	-	15	16	18	32	19	20	15	5	9	A-4a (3)	
VERY STIFF, REDDISH BROWN, **SANDY SILT**, TRACE GRAVEL, CONTAINS MICA, DAMP **(FILL)**	975.0	3 4 5	9 9 13	32	67	SS-2	4.00	8	6	14	48	24	25	17	8	12	A-4a (7)	
			7 8 11	28	100	SS-3	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
HARD, GRAYISH BROWN, **SANDY SILT**, TRACE GRAVEL, CONTAINS MICA, DAMP		6	7 8 11	28	83	SS-4	4.5+	-	-	-	-	-	-	-	-	10	A-4a (V)	
@7.0'-8.5', REDDISH BROWN, TRACE BRICK FRAGMENTS	972.0	7 8 EOB	5 10 5	22	67	SS-5	4.5+	-	-	-	-	-	-	-	-	11	A-4a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 4/1/20 END: 4/1/20

DRILLING FIRM / OPERATOR: DLZ-AD / DEARING
SAMPLING FIRM / LOGGER: DLZ / HUZINEC
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: '18 CME 55 404185
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 4/25/18
ENERGY RATIO (%): 87.1

STATION / OFFSET: 287+09, 15' LT.
ALIGNMENT:
ELEVATION: 986.3 (MSL) EOB: 7.5 ft.
COORD: 509853.6500 N, 2232520.7400 E

EXPLORATION ID B-014-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 986.3	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 16" OF ASPHALT, 9.5" OF CONCRETE	984.8	1																
LOOSE, BROWN AND GRAY, **COARSE AND FINE SAND**, LITTLE GRAVEL, TRACE TO LITTLE CLAY, MOIST	983.3	2	4 3 3	9	56	SS-1	-	13	34	30	13	10	NP	NP	NP	11	A-3a (0)	
MEDIUM STIFF, BROWN AND GRAY, **SANDY SILT**, LITTLE GRAVEL, TRACE TO LITTLE CLAY, MOIST	981.8	3 4	1 1 2	4	56	SS-2	-	8	19	32	28	13	NP	NP	NP	14	A-4a (1)	
VERY STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, DAMP	980.3	5	1 9 8	25	72	SS-3	2.25	10	7	27	45	11	18	13	5	11	A-4a (4)	
HARD, BROWN, **SANDY SILT**, SOME GRAVEL, SOME CLAY, CONTAINS WOOD FRAGMENTS, CONTAINS SANDSTONE FRAGMENTS, DAMP	978.8	6 7 EOB	3 5 7	17	44	SS-4	4.50	-	-	-	-	-	-	-	-	12	A-4a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS; MIXED WITH BENTONITE CHIPS; PLACED QUICKCRETE

PROJECT: INTERSTATE 76/77 | DRILLING FIRM / OPERATOR: DLZ-AD / CONRAD | DRILL RIG: '19 CME 75-079-797 | STATION / OFFSET: 288+89, 85' LT. | EXPLORATION ID B-014-1-19

TYPE: ROADWAY | SAMPLING FIRM / LOGGER: DLZ / MIDDLETON | HAMMER: CME AUTOMATIC | ALIGNMENT:

PID: 102329 SFN: | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 8/15/19 | ELEVATION: 987.4 (MSL) EOB: 100.0 ft. | PAGE 1 OF 4

START: 10/22/19 END: 10/25/19 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 83.7 | COORD: 509929.7600 N, 2232698.8100 E

MATERIAL DESCRIPTION AND NOTES	ELEV. 987.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
CONCRETE	986.4	1																
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, LITTLE CLAY, DAMP	984.4	2	2 2 3	7	33	SS-1	-	35	29	14	- 22 -		-	-	-	8	A-1-b (V)	
LOOSE, DARK BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, SOME SILT, LITTLE CLAY, CONTAINS ORGANICS, MOIST	982.9	3 4	1 1 3	6	22	SS-2	-	8	41	18	21	12	19	13	6	15	A-3a (0)	
DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, LITTLE CLAY, CONTAINS ROOT HAIRS, ORGANIC ODOR, DAMP	981.4	5 6	2 2 21	32	89	SS-3	-	17	19	30	20	14	19	14	5	14	A-2-4 (0)	
MEDIUM DENSE, BROWN, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, MOIST	978.9	7 8	3 4 7	15	100	SS-4	-	6	18	39	20	17	22	13	9	15	A-4a (0)	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, LITTLE SILT, LITTLE CLAY, MOIST	976.4	9 10 11	8 8 10	25	89	SS-5	-	8	23	46	12	11	NP	NP	NP	10	A-3a (0)	
LOOSE TO MEDIUM DENSE, GRAYISH BROWN, **SANDY SILT**, LITTLE GRAVEL, LITTLE CLAY, CONTAINS SHALE FRAGMENTS, ORGANIC ODOR, MOIST		12 13 14	3 4 3	10	100	SS-6	-	-	-	-	-	-	-	-	-	13	A-4a (V)	
		15 16	4 4 5	13	0	SS-7	-	-	-	-	-	-	-	-	-	-	A-4a (V)	
		17 18	4 3 3	8	100	SS-8	-	18	15	30	- 37 -		-	-	-	15	A-4a (V)	
		19 20	7 8 9	24	100	SS-9	-	-	-	-	-	-	-	-	-	10	A-4a (V)	
	966.4	21 22	4 5 5	14	83	SS-10	-	2	8	24	46	20	36	31	5	32	A-4a (6)	
MEDIUM DENSE, DARK GRAY, **SANDY SILT**, TRACE GRAVEL, SOME CLAY, HIGHLY ORGANIC, MOIST	963.9	23 24	10 12 9	29	100	SS-11	-	-	-	-	-	-	-	-	-	13	A-4b (V)	
MEDIUM DENSE, LIGHT GRAY, **SILT**, SOME GRAVEL, LITTLE CLAY, TRACE SAND, CONTAINS SILTSTONE FRAGMENTS, DAMP	958.9	25 26 27 28																
MEDIUM DENSE, LIGHT GRAY, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, SLIGHT ORGANIC ODOR, DAMP		29	14 9 10	27	100	SS-12	-	11	16	21	31	21	19	13	6	11	A-4a (3)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PID: 102329 | SFN: | PROJECT: INTERSTATE 76/77 | STATION / OFFSET: 288+89, 85' LT. | START: 10/22/19 | END: 10/25/19 | PG 2 OF 4 | B-014-1-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
MEDIUM DENSE, LIGHT GRAY, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, SLIGHT ORGANIC ODOR, DAMP *(continued)*	957.4	31 32 33																
DENSE, LIGHT BROWN, **COARSE AND FINE SAND**, TRACE TO SOME GRAVEL, TRACE SILT, TRACE CLAY, MOIST	953.9	34 35 36 37 38	9 10 12	31	100	SS-13	-	5	80	8	7	-	-	-	-	23	A-3a (V)	
		39 40 41 42 43	7 7 10	24	94	SS-14	-	34	40	19	7	-	-	-	-	14	A-3a (V)	
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, TRACE SILT, TRACE CLAY, WET	943.9	44 45 46 47 48	4 5 5	14	100	SS-15	-	-	-	-	-	-	-	-	-	21	A-3a (V)	
		49 50 51 52 53	14 15 16	43	100	SS-16	-	0	6	81	13	-	-	-	-	19	A-3a (V)	
		54 55 56 57 58	9 13 15	39	56	SS-17	-	-	-	-	-	-	-	-	-	20	A-3a (V)	
DENSE, GRAY, **SANDY SILT**, TRACE GRAVEL, TRACE CLAY, WET	928.9	59 60 61	12 12 18	42	100	SS-18	-	1	0	53	38	8	NP	NP	NP	18	A-4a (2)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 288+89, 85' LT.	START: 10/22/19	END: 10/25/19	PG 3 OF 4	B-014-1-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE, GRAY, **SANDY SILT**, TRACE GRAVEL, TRACE CLAY, WET *(continued)*	925.3																	
	923.9																	
DENSE TO VERY DENSE, GRAY, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET		63																
		64	10 16 18	47	100	SS-19	-	-	-	-	-	-	-	-	-	21	A-3 (V)	
		65																
		66																
		67																
		68																
		69	14 15 24	54	100	SS-20	-	-	-	-	-	-	-	-	-	20	A-3 (V)	
		70																
		71																
		72																
		73																
		74	12 21 20	57	100	SS-21	-	0	0	90	-	10 -	-	-	-	21	A-3 (V)	
		75																
		76																
		77																
		78																
	F. S.	79	6 8 14	31	100	SS-22	-	-	-	-	-	-	-	-	-	21	A-3 (V)	
		80																
		81																
		82																
		83																
		84	7 9 10	27	89	SS-23	-	-	-	-	-	-	-	-	-	22	A-3 (V)	
		85																
		86																
		87																
		88																
		89	15 19 18	52	100	SS-24	-	2	5	87	-	6 -	-	-	-	21	A-3 (V)	
		90																
		91																
		92																
		93																
		94	20															

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE TO VERY DENSE, GRAY, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET *(continued)*	893.2	95	20 17	52	100	SS-25	-	-	-	-	-	-	-	-	-	20	A-3 (V)	
F.S.		96																
		97																
		98																
		99	22 25 34	82	100	SS-26	-	-	-	-	-	-	-	-	-	17	A-3 (V)	
	887.4	EOB 100																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 290+23, 98' LT.	EXPLORATION ID B-014-2-19
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / SCHMITZ	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 967.5 (MSL) EOB: 100.0 ft.	PAGE 1 OF 4
START: 10/21/19 END: 10/22/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509947.5400 N, 2232831.7300 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 967.5	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
UNCONTROLLED FILL	966.5																	
LOOSE, DARK BROWN AND LIGHT GRAY, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, CONTAINS ORGANICS, DAMP		1–5	3 2 3	7	56	SS-1	-	0	10	39	30	21	31	24	7	23	A-4a (3)	
			2 3 3	9	56	SS-2	-	26	12	20	24	18	23	17	6	15	A-4a (1)	
	961.5	6–8	5 8 6	20	67	SS-3	-	35	33	14	11	7	NP	NP	NP	7	A-1-b (0)	
MEDIUM DENSE, GRAYISH BROWN TO REDDISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, TRACE CLAY, CONTAINS SANDSTONE FRAGMENTS, DAMP	959.0	9–10	4 3 4	10	83	SS-4	-	32	32	29	7		-	-	-	5	A-1-b (V)	
LOOSE, ORANGISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, CONTAINS SILTSTONE AND LIMESTONE FRAGMENTS, DAMP	956.5	11–12	2 3 4	10	100	SS-5	-	5	38	51	6		-	-	-	5	A-3 (V)	
LOOSE TO MEDIUM DENSE, ORANGISH BROWN, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		14–15	3 8 6	20	83	SS-6	-	-	-	-	-	-	-	-	-	4	A-3 (V)	
		17–18	2 4 6	15	89	SS-7	-	-	-	-	-	-	-	-	-	11	A-3 (V)	
	949.0	19–20	2 1 3	6	61	SS-8	-	66	17	12	5		-	-	-	11	A-1-a (V)	
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, WET	946.5	21–23	21 12 7	28	100	SS-9	-	23	10	47	14	6	NP	NP	NP	14	A-3a (0)	
MEDIUM DENSE, BROWNISH GRAY, **COARSE AND FINE SAND**, SOME GRAVEL, LITTLE SILT, TRACE CLAY, WET	944.0	24–28	10 6 9	22	100	SS-10	-	42	16	28	14		-	-	-	12	A-1-b (V)	
MEDIUM DENSE, BROWNISH GRAY, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, WET	939.0	29	6 10 11	30	100	SS-11	-	0	3	54	34	9	NP	NP	NP	17	A-4a (2)	
MEDIUM DENSE, GRAY, **SANDY SILT**, TRACE CLAY, MOIST																		

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
MEDIUM DENSE, GRAY, **SANDY SILT**, TRACE CLAY, MOIST *(continued)*	937.5	31 32 33																
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, TRACE SILT, TRACE CLAY, WET	934.0	34 35 36 37 38	3 8 11	28	56	SS-12	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
		39 40 41 42 43	5 5 14	28	56	SS-13	-	0	0	89	-	11 -	-	-	-	21	A-3a (V)	
		44 45 46 47 48	7 7 18	36	100	SS-14	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
		49 50 51 52 53	6 10 23	48	100	SS-15	-	-	-	-	-	-	-	-	-	22	A-3a (V)	
		54 55 56 57 58	17 12 20	46	100	SS-16	-	0	0	86	-	14 -	-	-	-	24	A-3a (V)	
		59 60 61	3 13 16	42	44	SS-17	-	-	-	-	-	-	-	-	-	25	A-3a (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 290+23, 98' LT.	START: 10/21/19	END: 10/22/19	PG 3 OF 4	B-014-2-19

MATERIAL DESCRIPTION AND NOTES	ELEV. 905.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, TRACE SILT, TRACE CLAY, WET *(continued)*		63																
		64	4 9 16	36	33	SS-18	-	-	-	-	-	-	-	-	-	23	A-3a (V)	
		65																
		66																
		67																
		68																
		69	4 10 17	39	0	SS-19	-	-	-	-	-	-	-	-	-	-	A-3a (V)	
		70																
		71																
		72																
		73																
		74	5 13 13	38	50	SS-20	-	-	-	-	-	-	-	-	-	23	A-3a (V)	
		75																
		76																
		77																
		78																
	889.0																	
VERY DENSE, GRAY, **SILT**, SOME SAND, LITTLE CLAY, MOIST		79	5 16 25	60	56	SS-21	-	0	2	27	57	14	NP	NP	NP	16	A-4b (7)	
		80																
		81																
		82																
		83																
		84	10 24 28	75	39	SS-22	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
		85																
		86																
		87																
		88																
	879.0																	
DENSE TO VERY DENSE, GRAY, **FINE SAND**, TRACE SILT, TRACE CLAY, WET	F. S.	89	9 18 20	55	78	SS-23	-	-	-	-	-	-	-	-	-	19	A-3 (V)	
		90																
		91																
		92																
		93																
		94	4															

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
DENSE TO VERY DENSE, GRAY, **FINE SAND**, TRACE SILT, TRACE CLAY, WET *(continued)*	873.3	95	15 19	49	56	SS-24	-	-	-	-	-	-	-	-	-	21	A-3 (V)	
F S		96																
		97																
		98																
		99	8 17 23	58	83	SS-25	-	0	4	89	- 7 -		-	-	-	19	A-3 (V)	
	867.5	EOB 100																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: SHOVELED AUGER CUTTINGS; TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / CONRAD	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 293+97, 55' LT.	EXPLORATION ID B-014-3-19
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MIDDLETON	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 993.0 (MSL) EOB: 100.0 ft.	PAGE 1 OF 4
START: 10/21/19 END: 10/22/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 509916.6200 N, 2233206.8100 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
CONCRETE	993.0	1																
	991.5																	
MEDIUM DENSE, GREY AND BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, DAMP		2	10 7 7	20	100	SS-1	-	24	10	18	32	16	20	14	6	9	A-4a (3)	
	990.0	3																
MEDIUM DENSE TO DENSE, BROWN, **COARSE AND FINE SAND**, TRACE TO SOME GRAVEL, LITTLE SILT, LITTLE CLAY, DAMP		4	10 10 11	29	100	SS-2	-	9	4	53	21	13	NP	NP	NP	10	A-3a (0)	
		5	11 5 3	11	78	SS-3	-	27	22	33	11	7	NP	NP	NP	8	A-3a (0)	
		6	2 2 2	6	22	SS-4	-	15	10	45	19	11	NP	NP	NP	10	A-3a (0)	
		7																
		8																
		9	3 2 4	8	100	SS-5	-	-	-	-	-	-	-	-	-	14	A-3a (V)	
		10																
		11																
		12	8 12 11	32	89	SS-6	-	-	-	-	-	-	-	-	-	7	A-3a (V)	
		13																
		14	6 5 5	14	72	SS-7	-	-	-	-	-	-	-	-	-	13	A-3a (V)	
	977.0	15																
MEDIUM DENSE, DARK BROWN, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, CONTAINS ROOT HAIRS, WOOD FIBERS, SLIGHT ORGANIC ODOR, WET		16	16 6 7	18	100	SS-8	-	7	21	31	26	15	NP	NP	NP	20	A-4a (1)	
		17																
		18																
		19	5 5 7	17	100	SS-9	-	-	-	-	-	-	-	-	-	27	A-4a (V)	
	972.0	20																
MEDIUM DENSE, GREENISH GREY, **SILT**, LITTLE CLAY, TRACE SAND, TRACE GRAVEL, DAMP		21																
		22	3 3 5	11	100	SS-10	-	-	-	-	-	-	-	-	-	16	A-4b (V)	
	969.5	23																
MEDIUM DENSE, GREYISH BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, LITTLE SILT ,LITTLE CLAY, DAMP		24	4 4 5	13	83	SS-11	-	8	31	32	15	14	18	12	6	12	A-3a (0)	
		25																
		26																
		27																
	964.5	28																
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP		29	2 1 2	4	61	SS-12	-	17	24	40	- 19 -		-	-	-	11	A-3a (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 293+97, 55' LT.	START: 10/21/19	END: 10/22/19	PG 2 OF 4	B-014-3-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP *(continued)*	963.0	31 32 33																
	959.5																	
LOOSE, BROWN, **UNCONTROLLED FILL**, WOOD, STRONG PINE SMELL, DAMP		34 35 36 37 38	16 3 3	8	28	SS-13	-	-	-	-	-	-	-	-	-	-	UCF (V)	
	954.5																	
LOOSE TO MEDIUM DENSE, GREY, **SILT**, SOME SAND, LITTLE CLAY, WET		39 40 41 42 43	9 9 9	25	100	SS-14	-	-	-	-	-	-	-	-	-	19	A-4b (V)	
		44 45 46 47 48	9 10 6	22	11	SS-15	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
		49 50 51 52 53	5 6 6	17	72	SS-16	-	0	4	16	62	18	20	18	2	26	A-4b (8)	
		54 55 56 57 58	3 4 3	10	61	SS-17	-	-	-	-	-	-	-	-	-	23	A-4b (V)	
		59 60 61	5 3 3	8	100	SS-18	-	-	-	-	-	-	-	-	-	28	A-4b (V)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 293+97, 55' LT.	START: 10/21/19	END: 10/22/19	PG 3 OF 4	B-014-3-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
LOOSE TO MEDIUM DENSE, GREY, **SILT**, SOME SAND, LITTLE CLAY, WET *(continued)*	930.8																	
	929.5	63																
MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL, TRACE SAND, AND CLAY, MOIST		64	4 4 4	11	100	SS-19	-	2	0	7	56	35	23	15	8	17	A-4b (8)	
		65																
		66																
		67																
	924.5	68																
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL, LITTLE SAND, LITTLE CLAY, MOIST		69	4 5 6	15	100	SS-20	-	-	-	-	-	-	-	-	-	18	A-4b (V)	
		70																
		71																
		72																
		73																
		74	4 5 6	15	100	SS-21	-	4	2	8	70	16	19	15	4	19	A-4b (8)	
		75																
		76																
		77																
		78																
		79	10 10 11	29	100	SS-22	-	-	-	-	-	-	-	-	-	15	A-4b (V)	
		80																
		81																
		82																
		83																
		84	3 2 2	6	100	SS-23	-	-	-	-	-	-	-	-	-	17	A-4b (V)	
		85																
		86																
		87																
		88																
		89	WOR WOR 2	3	100	SS-24	-	3	4	17	59	17	21	16	5	18	A-4b (8)	
		90																
		91																
		92																
		93																
		94	3															

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 293+97, 55' LT.	START: 10/21/19	END: 10/22/19	PG 4 OF 4	B-014-3-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL, LITTLE SAND, LITTLE CLAY, MOIST *(continued)*	898.7	95	3 3	8	100	SS-25	-	-	-	-	-	-	-	-	-	20	A-4b (V)	
		96																
		97																
		98																
		99	3 3 3	8	100	SS-26	-	-	-	-	-	-	-	-	-	13	A-4b (V)	
	893.0	EOB 100																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 10/15/19 END: 10/15/19

DRILLING FIRM / OPERATOR: DLZ-AD / CONRAD
SAMPLING FIRM / LOGGER: DLZ / MIDDLETON
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: '19 CME 75-079-797
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 8/15/19
ENERGY RATIO (%): 83.7

STATION / OFFSET: 296+07, 49' LT.
ALIGNMENT:
ELEVATION: 995.2 (MSL) EOB: 100.0 ft.
COORD: 509917.7800 N, 2233417.2700 E

EXPLORATION ID B-014-4-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
CONCRETE	995.2 994.2	1																
DENSE, DARK BROWN, **GRAVEL AND STONE FRAGMENTS**, LITTLE SAND, CONTAINS ASPHALT FRAGMENTS, DAMP	992.7	2	22 10 14	33	50	SS-1	-	83	12	4	- 1 -		-	-	-	4	A-1-a (V)	
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP	991.2	3 4	12 8 4	17	44	SS-2	-	67	11	6	- 16 -		-	-	-	4	A-1-b (V)	
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, LITTLE SAND, TRACE SILT, TRACE CLAY, DAMP	989.7	5 6	5 5 4	13	17	SS-3	-	79	10	7	- 4 -		-	-	-	3	A-1-a (V)	
VERY LOOSE, LIGHT BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, TRACE CLAY, WET	986.7	7	3 1 2	4	17	SS-4	-	47	14	20	12	7	20	16	4	53	A-1-b (0)	
VERY LOOSE TO LOOSE, LIGHT BROWN, **SANDY SILT**, TRACE TO LITTLE GRAVEL, LITTLE TO SOME CLAY, DAMP TO MOIST		8 9	2 1 1	3	33	SS-5	-	9	13	34	28	16	18	14	4	15	A-4a (2)	
		10 11 12	1 3 6	13	33	SS-6	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		13 14	5 5 6	15	100	SS-7	-	3	6	22	47	22	22	15	7	14	A-4a (7)	
		15 16 17	9 14 11	35	100	SS-8	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
		18 19	4 5 6	15	89	SS-9	-	10	10	21	39	20	25	18	7	16	A-4a (5)	
	974.2	20																
MEDIUM DENSE, LIGHT BROWN, **COARSE AND FINE SAND**, LITTLE SILT, LITTLE GRAVEL, TRACE CLAY, DAMP	971.7	21 22	5 6 5	15	100	SS-10	-	-	-	-	-	-	-	-	-	8	A-3a (V)	
LOOSE TO MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST		23 24 25	2 3 2	7	100	SS-11	-	10	28	43	- 19 -		-	-	-	10	A-3a (V)	
		26 27 28 29	5 4 4	11	100	SS-12	-	-	-	-	-	-	-	-	-	9	A-3a (V)	

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 296+07, 49' LT.	START: 10/15/19	END: 10/15/19	PG 2 OF 4	B-014-4-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
LOOSE TO MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, TRACE SILT, TRACE CLAY, DAMP TO MOIST *(continued)*	965.2	31–38	1 3 3	8	83	SS-13	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
MEDIUM DENSE TO DENSE, GRAY, **COARSE AND FINE SAND**, TRACE GRAVEL, LITTLE SILT, LITTLE CLAY, WET	956.7	39–43	3 3 4	10	100	SS-14	-	-	-	-	-	-	-	-	-	23	A-3a (V)	
		44–48	5 6 8	20	100	SS-15	-	1	0	79	20	-	-	-	-	18	A-3a (V)	
		49–53	12 15 14	40	100	SS-16	-	-	-	-	-	-	-	-	-	19	A-3a (V)	
DENSE, GRAY, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, WET	941.7	54–58	10 12 11	32	100	SS-17	-	2	0	46	42	10	NP	NP	NP	19	A-4a (3)	
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL, SOME SAND, SOME CLAY, MOIST TO WET	936.7	59–61	6 8 5	18	100	SS-18	-	-	-	-	-	-	-	-	-	28	A-4b (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 296+07, 49' LT.	START: 10/15/19	END: 10/15/19	PG 3 OF 4	B-014-4-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
LOOSE TO MEDIUM DENSE, GRAY, **SILT**, TRACE GRAVEL, SOME SAND, SOME CLAY, MOIST TO WET *(continued)*	933.1	63																
		64	4 5 6	15	100	SS-19	-	-	-	-	-	-	-	-	-	25	A-4b (V)	
		65																
		66																
		67																
		68																
		69	2 2 4	8	100	SS-20	-	3	3	18	53	23	18	14	4	17	A-4b (8)	
		70																
		71																
		72																
		73																
		74	2 2 3	7	100	SS-21	-	-	-	-	-	-	-	-	-	14	A-4b (V)	
		75																
		76																
		77																
		78																
	916.7	79	7 19 26	63	100	SS-22	-	-	-	-	-	-	-	-	-	22	A-3 (V)	
VERY DENSE, BROWN TO GRAY, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET		80																
		81																
		82																
		83																
		84	17 21 25	64	100	SS-23	-	-	-	-	-	-	-	-	-	17	A-3 (V)	
		85																
		86																
		87																
		88																
		89	12 30 36	92	100	SS-24	-	2	8	82	-	8 -	-	-	-	19	A-3 (V)	
		90																
		91																
		92																
		93																
		94	20															

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 296+07, 49' LT.	START: 10/15/19	END: 10/15/19	PG 4 OF 4	B-014-4-19

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
VERY DENSE, BROWN TO GRAY, **FINE SAND**, TRACE GRAVEL, TRACE SILT, TRACE CLAY, WET *(continued)*	901.0	95	36 41	107	83	SS-25	-	-	-	-	-	-	-	-	-	7	A-3 (V)	
F.S.		96																
		97																
		98																
		99	19 35 42	107	100	SS-26	-	-	-	-	-	-	-	-	-	17	A-3 (V)	
	895.2	EOB 100																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 297+61, 52' LT.	EXPLORATION ID B-015-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 996.6 (MSL) EOB: 5.67 ft.	PAGE 1 OF 1
START: 4/1/20 END: 4/1/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509925.7600 N, 2233570.3200 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 996.6	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 11" OF ASPHALT	995.6																	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, SOME SILT, TRACE CLAY, MOIST	994.1	1	6 11 9	29	67		-	17	26	32	15	10	NP	NP	NP	11	A-3a (0)	
STIFF, BROWN AND DARK BROWN, **SANDY SILT**, SOME SAND, TRACE GRAVEL, MOIST	992.6	2 3	4 4 10	20	83		2.00	10	11	34	30	15	19	14	5	14	A-4a (2)	
VERY DENSE, LIGHT BROWN, **COARSE AND FINE SAND**, SOME GRAVEL, TRACE SILT, CONTAINS SANDSTONE FRAGMENTS, DAMP	991.1	4 5	18 17 25	61	61		-	2	2	77	11	8	NP	NP	NP	9	A-3a (0)	
SANDSTONE, LIGHT BROWN.	990.9	EOB	2"/2"	-	100		-	-	-	-	-	-	-	-	-	11	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS; MIXED WITH BENTONITE CHIPS; PLACED QUICKCRETE

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 3/30/20 END: 3/30/20

DRILLING FIRM / OPERATOR: DLZ-AD / DEARING
SAMPLING FIRM / LOGGER: DLZ / HUZINEC
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: '18 CME 55 404185
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 4/25/18
ENERGY RATIO (%): 87.1

STATION / OFFSET: 300+99, 122' RT.
ALIGNMENT:
ELEVATION: 991.6 (MSL) EOB: 7.0 ft.
COORD: 509762.3800 N, 2233914.0000 E

EXPLORATION ID B-016-0-20

MATERIAL DESCRIPTION AND NOTES	ELEV. 991.6	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 5.5" OF ASPHALT, 6" OF AGGREGATE BASE	990.6																	
SOFT, GRAY, **SANDY SILT**, TRACE GRAVEL, SOME SAND, CONTAINS ORANGISH BROWN STAINING, MOIST	989.1	1	1 1 2	4	50		0.50	13	8	38	27	14	23	16	7	15	A-4a (1)	
MEDIUM DENSE, GRAY AND ORANGISH BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, LITTLE CLAY, MOIST	987.6	3	4 4 6	15	72		-	12	14	41	22	11	15	14	1	13	A-3a (0)	
MEDIUM DENSE, GRAY AND BROWN, **SILT**, TRACE SAND, LITTLE CLAY, MOIST	986.1	5	3 5 5	15	78		-	-	-	-	-	-	-	-	-	22	A-4b (V)	
LOOSE TO MEDIUM DENSE, GRAY, **SANDY SILT**, TRACE GRAVEL, LITTLE SAND, LITTLE CLAY, DAMP TO MOIST	984.6	6	4 4 4	12	67		-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		EOB 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS; MIXED WITH BENTONITE CHIPS; PLACED QUICKCRETE

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 1/10/19 END: 1/10/19

DRILLING FIRM / OPERATOR: DLZ-AD / DEARING
SAMPLING FIRM / LOGGER: DLZ / VOLLBORN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: '18 CME 55 404185
HAMMER: CME AUTOMATIC
CALIBRATION DATE: 4/25/18
ENERGY RATIO (%): 87.1

STATION / OFFSET: 301+61, 51' RT.
ALIGNMENT:
ELEVATION: 1001.9 (MSL) EOB: 8.5 ft.
COORD: 509835.5200 N, 2233973.7200 E

EXPLORATION ID B-017-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
ASPHALT 8" of asphalt	1001.9 1000.9	1																
DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, LITTLE CLAY, TRACE SHALE, DAMP	999.4	2	8 9 13	32	56	SS-1	-	17	21	34	17	11	16	13	3	9	A-3a (0)	
HARD, BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, TRACE SHALE, DAMP		3	5 6 8	20	83	SS-2	-	23	7	28	23	19	22	14	8	12	A-4a (1)	
		4	6 7 10	25	67	SS-3	4.5+	-	-	-	-	-	-	-	-	13	A-4a (V)	
@5.5'-7.0', CONTAINS WOOD FRAGMENTS	994.9	5 6	7 10 8	26	83	SS-4	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
LOOSE, REDDISH BROWN, **SANDY SILT**, TRACE GRAVEL, CONTAINS MICA, DAMP	993.4	7 8 EOB	4 5 3	12	67	SS-5	-	-	-	-	-	-	-	-	-	15	A-4a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 306+00, 53' LT.	EXPLORATION ID B-018-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1007.7 (MSL) EOB: 4.08 ft.	PAGE 1 OF 1
START: 4/1/20 END: 4/1/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509954.2000 N, 2234409.2200 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 7" ASPHALT, 10" CONCRETE, 6" AGGREGATE BASE	1007.7	1																
VERY DENSE, BROWN, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, CONTAINS IRON OXIDE STAINING, CONTAINS SANDSTONE FRAGMENTS, DAMP	1005.7	2	6 10 30	58	78		4.50	5	0	50	30	15	NP	NP	NP	18	A-4a (2)	
	1004.7	3	1"/1"	-	100		-	-	-	-	-	-	-	-	-	4	A-1-a (V)	
VERY DENSE, LIGHT BROWN, **STONE FRAGMENTS**, LITTLE SAND, [WEATHERED SANDSTONE]	1003.6	EOB 4	1"/1"	-	100		-	-	-	-	-	-	-	-	-	3	A-1-a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS; MIXED WITH BENTONITE CHIPS; PLACED QUICKCRETE

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 309+61, 6' LT.	EXPLORATION ID B-019-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1011.1 (MSL) EOB: 4.08 ft.	PAGE 1 OF 1
START: 3/31/20 END: 3/31/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509919.2200 N, 2234772.2800 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 11" OF CONCRETE, 7" OF AGGREGATE BASE	1011.1																	
	1009.6	1	5															
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, SOME SILT, TRACE CLAY, MOIST	1008.6	2	6 8	20	-		-	7	15	52	17	9	NP	NP	NP	10	A-3a (0)	
VERY DENSE, LIGHT BROWN, **COARSE AND FINE SAND**, SOME GRAVEL, TRACE SILT, CONTAINS SANDSTONE FRAGMENTS, DAMP	1007.1	3	8 /5"/5"	-	-		-	-	-	-	-	-	-	-	-	7	A-3a (V)	
VERY DENSE, LIGHT BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, DAMP	1007.0	EOB 4	1"/1"	-	-		-	-	-	-	-	-	-	-	-	5	A-1-b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS; MIXED WITH BENTONITE CHIPS; PLACED QUICKCRETE

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 313+61, 7' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1012.9 (MSL) EOB: 7.0 ft.
START: 3/31/20 END: 3/31/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 509932.9000 N, 2235171.4300 E

EXPLORATION ID B-020-0-20

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 1012.9	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 13" OF ASPHALT, 7" OF AGGREGATE BASE	1011.2	1																
HARD, BROWNISH GRAY, **SANDY SILT**, TRACE GRAVEL, LITTLE CLAY, DAMP	1010.4	2	7 8 31	57	89		4.50	4	8	43	30	15	NP	NP	NP	10	A-4a (2)	
MEDIUM DENSE, YELLOWISH BROWN, **COARSE AND FINE SAND**, SOME GRAVEL, TRACE SILT, DAMP	1008.9	3	12 7 6	19	22		-	28	1	59	7	5	NP	NP	NP	7	A-3a (0)	
MEDIUM DENSE, BROWN, GRAY, AND ORANGISH BROWN, **SANDY SILT**, LITTLE CLAY, CONTAINS IRON OXIDE STAINING, DAMP	1007.4	4 5	5 6 8	20	44		-	5	7	36	35	17	19	15	4	15	A-4a (3)	
MEDIUM DENSE, GRAY, **SILT**, TRACE SAND, TRACE CLAY, DAMP	1005.9	6 EOB 7	4 5 5	15	100		3.50	-	-	-	-	-	-	-	-	22	A-4b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: AUGER CUTTINGS; MIXED WITH BENTONITE CHIPS; PLACED QUICKCRETE

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / PAE	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 520+31, 32' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1056.6 (MSL) EOB: 7.0 ft.
START: 1/28/19 END: 1/28/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 498338.2205 N, 2243298.4740 E

EXPLORATION ID B-021-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 3" of asphalt 9.25" concrete	1056.6 1055.6	1																
VERY STIFF, GRAYISH BROWN, **SANDY SILT**, TRACE TO LITTLE GRAVEL, SOME CLAY, CONTAINS MICA, DAMP TO MOIST		2	2 5 10	18	56	SS-1	-	7	8	27	35	23	23	15	8	16	A-4a (5)	
		3	3 2 10	14	78	SS-2	-	11	7	28	34	20	23	15	8	13	A-4a (4)	
	1052.6	4																
VERY STIFF TO HARD, BROWN, **SILTY CLAY**, TRACE GRAVEL, TRACE SANDSTONE FRAGMENTS, DAMP TO MOIST		5	8 10 12	26	67	SS-3	4.5+	-	-	-	-	-	-	-	-	17	A-4a (V)	
	1049.6	6	5 12 12	29	22	SS-4	3.25	-	-	-	-	-	-	-	-	16	A-6b (V)	
EOB		7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 524+33, 28' LT.	EXPLORATION ID B-022-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1070.4 (MSL) EOB: 4.0 ft.	PAGE 1 OF 1
START: 1/22/19 END: 1/22/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 498726.4600 N, 2243150.4800 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
	1070.4																	
PAVEMENT AND BASE 3.5" of asphalt 8" concrete	1069.4																	
DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, LITTLE SILT, TRACE CLAY, WET		1	1 50	-	67	SS-1	-	23	33	22	15	7	25	21	4	20	A-1-b (0)	
		2																
		3	50	-	33	SS-2	-	-	-	-	-	-	-	-	-	19	A-1-b (V)	
	1066.4	EOB 4																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 526+65, 44' LT.	EXPLORATION ID B-023-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1075.5 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/10/19 END: 1/10/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 498961.7100 N, 2243146.0600 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 5.5" of asphalt 9.5" concrete	1075.5 / 1074.2																	
MEDIUM STIFF TO STIFF, BROWN, **SANDY SILT**, LITTLE GRAVEL, LITTLE CLAY, TRACE SANDSTONE FRAGMENTS, MOIST		1–2	1 4 6	15	56	SS-1	- -	- 16	- 16	- 23	- 28	- 17	- 28	- 18	- 10	- 12	A-4a (2)	
		3–4	5 4 3	10	44	SS-2	-	18	17	24	27	14	27	18	9	10	A-4a (1)	
	1070.0	5	4 3 2	7	44	SS-3	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
SOFT, BROWN, **SANDY SILT**, TRACE GRAVEL, MOIST TO WET	1068.5	6–EOB–7	WOH	-	44	SS-4	0.50	-	-	-	-	-	-	-	-	16	A-4a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 325+90, 56' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1078.5 (MSL) EOB: 7.0 ft.
START: 1/24/19 END: 1/24/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 499130.1100 N, 2243256.2200 E

EXPLORATION ID B-024-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 5.25" of asphalt 9.5" of concrete	1078.5																	
	1077.5																	
LOOSE TO MEDIUM DENSE, DARK BROWN, **GRAVEL AND/OR STONE FRAGMENTS**, TRACE SAND, CONTAINS PETROLEUM ODOR, DAMP	1076.0	1	5 4 5	11	22	SS-1	-	92	7	1	- 0 -		NP	NP	NP	6	A-1-a (0)	
MEDIUM DENSE TO DENSE, LIGHT BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, CONTAINS PETROLEUM ODOR, DAMP	1074.5	2 3	5 12 18	36	56	SS-2	-	20	12	24	29	15	22	15	7	13	A-4a (2)	
MEDIUM STIFF TO STIFF, REDDISH BROWN, **SILTY CLAY**, TRACE GRAVEL, DAMP		4 5 6	6 7 7	17	28	SS-3	-	-	-	-	-	-	-	-	-	15	A-6b (V)	
	1071.5	6 7	2 3 6	11	28	SS-4	1.00	-	-	-	-	-	-	-	-	13	A-6b (V)	
		EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 329+90, 63' RT.	EXPLORATION ID B-025-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1088.1 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/24/19 END: 1/24/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 499529.9700 N, 2243265.0600 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 3.25" of asphalt 8" of concrete	1088.1 1087.1																	
LOOSE TO MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, AND SAND, TRACE SILT, TRACE CLAY, CONTAINS LARGE STONES, TRACE SANDSTONE FRAGMENTS, MOIST	1085.6	1	9 4 4	10	22	SS-1	-	59	21	15	- 5 -		NP	NP	NP	11	A-1-a (0)	
MEDIUM STIFF TO STIFF, BROWN, **SANDY SILT**, SOME GRAVEL, LITTLE CLAY, TRACE BRICK FRAGMENTS, CONTAINS MICA, DAMP TO MOIST	1082.6	2 3 4 5	4 4 3	8	28	SS-2	-	23	10	30	21	16	21	13	8	12	A-4a (0)	
			1 1 2	4	22	SS-3	-	-	-	-	-	-	-	-	-	12	A-4a (V)	
STIFF TO VERY STIFF, REDDISH BROWN, **SILTY CLAY**, TRACE GRAVEL, DAMP	1081.1	6	1 14 1	18	28	SS-4	-	-	-	-	-	-	-	-	-	16	A-6b (V)	
		EOB 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / PAE	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 333+90, 63' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1097.8 (MSL) EOB: 7.0 ft.
START: 1/28/19 END: 1/28/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 499930.3900 N, 2243140.7100 E

EXPLORATION ID B-026-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 1097.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
4" of asphalt 9.5" of concrete	1096.7																	
@1'-2.5', CONTAINS ASPHALT VERY LOOSE, DARK BROWN, **GRAVEL AND STONE FRAGMENTS**, LITTLE SAND, TRACE SILT, TRACE CLAY, DAMP **(FILL)**	1095.3	1	3 1 2	4	28	SS-1	-	-	-	-	-	-	-	-	-	-	A-1-a (0)	
VERY DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, MOIST	1093.8	2 3	4 47 14	73	50	SS-2	-	59	10	20	8	3	NP	NP	NP	12	A-1-b (0)	
VERY LOOSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS**, DAMP	1092.3	4 TR 5	1 1 1	2	28	SS-3	-	-	-	-	-	-	-	-	-	7	A-1-a (V)	
SHALE, GRAY, DECOMPOSED TO HIGHLY WEATHERED.	1090.8	6 EOB 7	48 50	-	39	SS-4	2.50	-	-	-	-	-	-	-	-	5	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 337+90, 7' RT.	EXPLORATION ID B-027-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1106.9 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/24/19 END: 1/24/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 500330.7600 N, 2243212.2800 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 2" on asphalt 10.5" of concrete	1106.9 / 1105.9	1																
MEDIUM DENSE, LIGHT BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, MOIST	1104.4	2	22 17 7	29	56	SS-1	-	12	43	36	9	-	NP	NP	NP	13	A-1-b (0)	
MEDIUM DENSE TO DENSE, REDDISH BROWN, **COARSE AND FINE SAND**, CONTAINS MICA, MOIST		3	6 8 19	32	56	SS-2	-	29	16	44	11	-	NP	NP	NP	12	A-3a (0)	
		4	40 50	-	61	SS-3	-	-	-	-	-	-	-	-	-	9	A-3a (V)	
	1101.4	5																
DENSE, LIGHT REDDISH BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, CONTAINS FLAT STONES, BLACK CLAY SEAM, MOIST	1099.9	6	50	-	22	SS-4	-	-	-	-	-	-	-	-	-	10	A-3a (V)	
		EOB 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 1/28/19 END: 1/28/19

DRILLING FIRM / OPERATOR: DLZ-AD / PAE
SAMPLING FIRM / LOGGER: DLZ / VOLLBORN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME45 RENTAL
HAMMER: CME AUTOMATIC
CALIBRATION DATE: N/A
ENERGY RATIO (%): 72

STATION / OFFSET: 342+68, 8' LT.
ALIGNMENT:
ELEVATION: 1112.1 (MSL) EOB: 7.0 ft.
COORD: 500808.2400 N, 2243199.2300 E

EXPLORATION ID B-028-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV. 1112.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 5" of asphalt 9.5" of concrete	1110.9	1																
HARD, REDDISH BROWN, **GRAVEL AND STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, SOME LARGE ROCKS, CONTAINS MICA, MOIST TO WET	1109.6	2	5 14 45	71	50	SS-1	- -	- 69	- 6	- 17	- 4	- 4	- NP	- NP	- NP	- 7	A-1-a (0)	
DENSE, BROWN, **COARSE AND FINE SAND**, SOME GRAVEL, TRACE SILT, TRACE CLAY, CONTAINS MICA, MOIST TO WET	1106.6	3 4 5	34 50	-	44	SS-2	-	33	13	39	- 15 -		NP	NP	NP	11	A-3a (0)	
			50	-	22	SS-3	-	-	-	-	-	-	-	-	-	15	A-3a (V)	
SANDSTONE, GRAYISH BROWN, HIGHLY WEATHERED, TRACE CLAY.	1105.1	TR 6 EOB 7	50	-	6	SS-4	-	-	-	-	-	-	-	-	-	14	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 346+84, 49' RT.	EXPLORATION ID B-029-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1110.5 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/24/19 END: 1/24/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 501224.2800 N, 2243258.5000 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4" of asphalt 8.5" of concrete	1110.5																	
	1109.5	1																
MEDIUM DENSE, GRAYISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, WET	1108.0	2	15 10 13	28	67	SS-1	-	25	44	26	- 5 -		NP	NP	NP	17	A-1-b (0)	
SHALE, GRAY, DECOMPOSED WEATHERED.		TR 3	5 5 19	29	33	SS-2	-	20	9	12	38	21	28	20	8	10	Rock (V)	
		4	27 50	-	39	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
		5																
		6	44 50	-	50	SS-4	-	-	-	-	-	-	-	-	-	8	Rock (V)	
	1103.5	EOB 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 350+86, 52' LT.	EXPLORATION ID B-030-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1104.2 (MSL) EOB: 5.5 ft.	PAGE 1 OF 1
START: 1/10/19 END: 1/10/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 501626.6200 N, 2243159.1000 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1104.2	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4.25" of asphalt 8.5" of concrete	1103.1	TR																
SHALE, GRAY, DECOMPOSED WEATHERED, SLIGHTLY FRACTURED.	1101.7	1	4 3 10	19	50	SS-1	-	25	4	7	36	28	31	21	10	8	Rock (V)	
SHALE, GRAY, HIGHLY WEATHERED, HIGHLY FRACTURED.		2																
		3	12 42 50	134	100	SS-2	-	32	3	11	36	18	30	19	11	5	Rock (V)	
		4																
	1098.7	5	28 50	-	83	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
		EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 1/24/19 END: 1/24/19

DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN
SAMPLING FIRM / LOGGER: DLZ / VOLLBORN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME45 RENTAL
HAMMER: CME AUTOMATIC
CALIBRATION DATE: N/A
ENERGY RATIO (%): 72

STATION / OFFSET: 354+95, 7' RT.
ALIGNMENT:
ELEVATION: 1103.9 (MSL) EOB: 7.0 ft.
COORD: 502035.9800 N, 2243212.5500 E

EXPLORATION ID B-031-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
	1103.9																	
	1102.9																	
MEDIUM DENSE, GRAYISH BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, TRACE CLAY, DAMP	1101.4	1	4 6 4	12	22	SS-1	-	27	21	26	17	9	28	23	5	10	A-2-4 (0)	
LOOSE TO MEDIUM DENSE, GRAYISH BROWN, **SILT AND CLAY**, SOME GRAVEL, SOME SAND, DAMP	1099.9	2 3 TR	4 4 4	10	28	SS-2	-	31	8	14	28	19	28	16	12	11	A-6a (3)	
SHALE, GRAY, HIGHLY WEATHERED, MODERATELY FRACTURED.		4 5	8 17 50	80	61	SS-3	-	-	-	-	-	-	-	-	-	8	Rock (V)	
	1096.9	6 EOB 7	33 50	-	28	SS-4	-	-	-	-	-	-	-	-	-	6	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / PAE	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 358+81, 7' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1109.6 (MSL) EOB: 7.0 ft.
START: 1/28/19 END: 1/28/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 502418.5400 N, 2243160.2200 E

EXPLORATION ID B-032-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 2" of asphalt 9" of concrete	1109.6 1108.6	1																
STIFF, GRAYISH BROWN, **SANDY SILT**, LITTLE GRAVEL, LITTLE CLAY, CONTAINS SHALE, DAMP	1107.1	2	4 5 7	14	50	SS-1	-	15	9	18	40	18	27	19	8	11	A-4a (5)	
VERY DENSE, LIGHT GRAY, **STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP	1105.6	3	13 38 50	106	56	SS-2	-	30	28	30	- 12 -		NP	NP	NP	8	A-1-b (0)	
SHALE, GRAY, DECOMPOSED WEATHERED, HIGHLY FRACTURED.		TR 4																
		5	8 50	-	28	SS-3	-	-	-	-	-	-	-	-	-	15	Rock (V)	
		6	50	-	17	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	
	1102.6	EOB 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:13 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 362+81, 68' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1115.8 (MSL) EOB: 7.0 ft.
START: 1/24/19 END: 1/24/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 502824.9700 N, 2243182.5400 E

EXPLORATION ID B-033-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV. 1115.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4" of asphalt 9" of concrete	1114.7																	
STIFF, BROWN, **SANDY SILT**, LITTLE CLAY, CONTAINS ASPHALT, DAMP **(FILL)**	1113.3	1	6 4 4	10	50	SS-1	- -	- 15	- 13	- 17	- 36	- 19	- 24	- 16	- 8	- 12	A-4a (4)	
LOOSE TO MEDIUM DENSE, BROWN, **SILT**, LITTLE SAND, SOME CLAY, DAMP	1111.8	2 3	3 4 6	12	61	SS-2	-	4	1	17	56	22	25	18	7	6	A-4b (8)	
STIFF, BROWN, **SILTY CLAY**, MOIST	1110.3	4 5	3 4 5	11	61	SS-3	-	-	-	-	-	-	-	-	-	15	A-6b (V)	
	1108.8	EOB 6 7	11 15 31	55	56	SS-4	1.75	-	-	-	-	-	-	-	-	16	A-6b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77 | DRILLING FIRM / OPERATOR: DLZ-AD / DEARING | DRILL RIG: '18 CME 55 404185 | STATION / OFFSET: 367+64, 64' LT. | EXPLORATION ID B-034-0-18

TYPE: ROADWAY | SAMPLING FIRM / LOGGER: DLZ / VOLLBORN | HAMMER: CME AUTOMATIC | ALIGNMENT:

PID: 102329 SFN: | DRILLING METHOD: 3.25" HSA | CALIBRATION DATE: 4/25/18 | ELEVATION: 1124.8 (MSL) EOB: 8.5 ft. | PAGE 1 OF 1

START: 1/10/19 END: 1/10/19 | SAMPLING METHOD: SPT | ENERGY RATIO (%): 87.1 | COORD: 503289.8800 N, 2242993.5500 E

MATERIAL DESCRIPTION AND NOTES	ELEV. 1124.8	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE	1123.8																	
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP	1122.3	1	7 7 8	22	78	SS-1	-	19	46	29	- 6 -		NP	NP	NP	5	A-1-b (0)	
VERY STIFF, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, LITTLE CLAY, DAMP	1120.8	2 3	5 8 5	19	67	SS-2	-	14	22	32	18	14	17	8	9	11	A-2-4 (0)	
MEDIUM DENSE TO DENSE, GREENISH GRAY, **SANDY SILT**, CONTAINS SANDSTONE COBBLES, DAMP TO MOIST	1117.8	4 5 6	4 3 9	17	61	SS-3	2.25	-	-	-	-	-	-	-	-	17	A-4a (V)	
			6 11 11	32	44	SS-4	-	-	-	-	-	-	-	-	-	11	A-4a (V)	
MEDIUM DENSE, GRAYISH BROWN, **SILT**, MOIST	1116.3	7 8 EOB	2 6 5	16	56	SS-5	-	-	-	-	-	-	-	-	-	17	A-4b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:14 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 374+73, 6' RT.	EXPLORATION ID B-035-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1131.0 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/24/19 END: 1/24/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 504003.7400 N, 2243043.3000 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1131.0	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4.5" of asphalt 9" of concrete	1129.9																	
LOOSE, BROWN, **SILT AND CLAY**, SOME GRAVEL, SOME SAND, CONTAINS CLAY SEAMS, DAMP	1128.5	1	4 2 4	7	56	SS-1	- -	- 28	- 17	- 15	- 22	- 18	- 27	- 15	- 12	- 12	A-6a (2)	
MEDIUM STIFF TO STIFF, BROWN, **SANDY SILT**, DAMP	1127.0	2 3	4 4 4	10	56	SS-2	-	4	9	23	37	27	24	14	10	13	A-4a (6)	
HARD, BROWN, **SANDY SILT**, DAMP	1124.0	4 5 6	4 6 12	22	61	SS-3	4.5+	-	-	-	-	-	-	-	-	13	A-4a (V)	
	EOB	7	6 11 16	32	50	SS-4	4.5+	-	-	-	-	-	-	-	-	11	A-4a (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:14 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / PAE	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 381+04, 6' LT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1124.1 (MSL) EOB: 7.0 ft.
START: 1/28/19 END: 1/28/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 504634.2200 N, 2243035.3200 E

EXPLORATION ID B-036-0-18

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
	1124.1																	
PAVEMENT AND BASE 3.5" of asphalt 8" concrete	1123.1	1																
VERY DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP	1121.6	2	50	-	11	SS-1	-	29	37	26	8		NP	NP	NP	9	A-1-b (0)	
LOOSE, DARK GRAY, **GRAVEL AND STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, CONTAINS PETROLEUM ODOR, CONTAINS UNKNOWN ORGANIC MATERIAL, DAMP **(FILL)**	1120.1	3	7 4 3	8	22	SS-2	-	63	19	12		6 -	NP	NP	NP	9	UCF (V)	
HARD, BROWN, **SILT AND CLAY**, DAMP		4	6 12 12	29	61	SS-3	4.5+	-	-	-	-	-	-	-	-	14	A-6a (V)	
	1117.1	5	6 13 12	30	50	SS-4	4.5+	-	-	-	-	-	-	-	-	12	A-6a (V)	
		EOB 6 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 1/24/19 END: 1/24/19

DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN
SAMPLING FIRM / LOGGER: DLZ / VOLLBORN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME45 RENTAL
HAMMER: CME AUTOMATIC
CALIBRATION DATE: N/A
ENERGY RATIO (%): 72

STATION / OFFSET: 382+88, 49' RT.
ALIGNMENT:
ELEVATION: 1120.4 (MSL) EOB: 7.0 ft.
COORD: 504817.9100 N, 2243091.7000 E

EXPLORATION ID B-037-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV. 1120.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
3.5" of asphalt 9" of asphalt	1119.4																	
LOOSE TO MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, MOIST	1116.4	1	4 4 6	12	22	SS-1	-	20	41	34	- 5 -		NP	NP	NP	10	A-1-b (0)	
		2	4 2 2	5	50	SS-2	-	27	37	27	- 9 -		NP	NP	NP	10	A-1-b (0)	
VERY STIFF TO HARD, DARK BROWN, **SILT AND CLAY**, DAMP	1114.9	3	1 3 3	7	11	SS-3	4.00	-	-	-	-	-	-	-	-	11	A-6a (V)	
VERY LOOSE, BROWN, **COARSE AND FINE SAND**, WET	1113.4	4	1 1 1	2	28	SS-4	-	-	-	-	-	-	-	-	-	16	A-3a (V)	
		EOB 5 6 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:14 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 386+89, 48' LT.	EXPLORATION ID B-038-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1111.6 (MSL) EOB: 8.5 ft.	PAGE 1 OF 1
START: 1/10/19 END: 1/10/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 505219.4100 N, 2242996.9400 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4" of ashalt 11.5" of concrete	1111.6																	
	1110.3	1																
LOOSE TO MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, SOME SILT, LITTLE CLAY, MOIST	1109.1	2	4 3 6	13	61	SS-1	-	-	-	-	-	-	-	-	-	-	A-3a (0)	
VERY STIFF TO HARD, BROWN, **SILT**, LITTLE SAND, SOME CLAY, MOIST		3	2 3 4	10	67	SS-2	-	0	3	11	56	30	27	18	9	19	A-4b (8)	
		4	2 4 7	16	78	SS-3	4.25	-	-	-	-	-	-	-	-	14	A-4b (V)	
		5	4 7 10	25	78	SS-4	4.25	-	-	-	-	-	-	-	-	14	A-4b (V)	
		6																
		7	3 3 6	13	94	SS-5	4.00	-	-	-	-	-	-	-	-	15	A-4b (V)	
	1103.1	8 EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 1/28/19 END: 1/28/19

DRILLING FIRM / OPERATOR: DLZ-AD / PAE
SAMPLING FIRM / LOGGER: DLZ / VOLLBORN
DRILLING METHOD: 3.25" HSA
SAMPLING METHOD: SPT

DRILL RIG: CME45 RENTAL
HAMMER: CME AUTOMATIC
CALIBRATION DATE: N/A
ENERGY RATIO (%): 72

STATION / OFFSET: 391+90, 7' RT.
ALIGNMENT:
ELEVATION: 1100.4 (MSL) EOB: 7.0 ft.
COORD: 505720.9300 N, 2243055.8800 E

EXPLORATION ID B-039-0-18

MATERIAL DESCRIPTION AND NOTES	ELEV. 1100.4	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4" of asphalt 9" concrete	1099.3																	
MEDIUM DENSE TO DENSE, GRAYISH BROWN, **SANDY SILT**, LITTLE GRAVEL, SOME CLAY, MOIST	1097.9	1	13 5 12	20	56	SS-1	- -	- - 14	- 9	- 16	- 37	- 24	- 28	- 20	- 8	- 11	A-4a (5)	
DENSE, GRAYISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, LITTLE CLAY, CONTAINS ROCK FRAGMENTS, DAMP	1096.4	2 3 4 TR	8 16 22	46	44	SS-2	-	33	18	20	18	11	25	17	8	8	A-2-4 (0)	
SANDSTONE, TAN, DECOMPOSED TO HIGHLY WEATHERED.		5	41 50	-	33	SS-3	-	-	-	-	-	-	-	-	-	10	Rock (V)	
	1093.4	6 EOB 7	50	-	33	SS-4	-	-	-	-	-	-	-	-	-	16	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:14 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 394+85, 75' LT.	EXPLORATION ID B-040-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1093.8 (MSL) EOB: 5.5 ft.	PAGE 1 OF 1
START: 1/10/19 END: 1/10/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 506015.9600 N, 2242975.8600 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4" of asphalt 8" of concrete	1093.8																	
	1092.8	1																
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP	1091.3	2	5 3 12	22	56	SS-1	-	37	30	26	- 7 -		NP	NP	NP	8	A-1-b (0)	
		TR 3	13 31 50	118	72	SS-2	-	16	12	8	42	22	29	20	9	4	Rock (V)	
SHALE, GRAY, HIGHLY TO MODERATELY WEATHERED.	1088.3	4 EOB 5	20 34 50	122	111	SS-3	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / MULLEN	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 398+62, 64' RT.	EXPLORATION ID B-041-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1088.1 (MSL) EOB: 5.5 ft.	PAGE 1 OF 1
START: 1/22/19 END: 1/22/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 506392.0400 N, 2243117.1500 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1088.1	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 5" of asphalt 9.5" of concrete	1086.9	1																
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE SILT, TRACE CLAY, DAMP	1085.6	2	3 4 7	13	28	SS-1	- -	- 37	- 32	- 19	- 9	- 3	- NP	- NP	- NP	- 5	A-1-b (0)	
LOOSE TO MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, DAMP		3	9 10 8	22	56	SS-2	-	59	18	14	- 9	-	NP	NP	NP	5	A-1-a (0)	
	1082.6	4	2 4 1	6	11	SS-3	-	-	-	-	-	-	-	-	-	8	A-1-a (V)	
		EOB 5																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:14 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / DEARING	DRILL RIG: '18 CME 55 404185	STATION / OFFSET: 401+90, 63' LT.	EXPLORATION ID B-042-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/25/18	ELEVATION: 1085.4 (MSL) EOB: 7.0 ft.	PAGE 1 OF 1
START: 1/22/19 END: 1/22/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 87.1	COORD: 506720.5600 N, 2242992.3700 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE 4" of asphalt 8" of concrete	1085.4																	
	1084.4																	
LOOSE TO MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, AND SAND, TRACE SILT, TRACE CLAY, DAMP	1083.5	1	4	13	39	1A	-	54	17	21	8	-	NP	NP	NP	7	A-1-a (0)	
		2	4		-	1B	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		3	5			SS-2	-	-	-	-	-	-	-	-	-	9	Rock (V)	
SANDSTONE, GRAY, HIGHLY TO MODERATELY WEATHERED.		TR 4	50	-	33													
		5	50	-	6	SS-3	-	-	-	-	-	-	-	-	-	9	Rock (V)	
		6	50	-	-	SS-4	-	-	-	-	-	-	-	-	-	7	Rock (V)	
	1078.4	EOB 7																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 7/7/20 11:14 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / PAE	DRILL RIG: CME45 RENTAL	STATION / OFFSET: 406+10, 8' RT.	EXPLORATION ID B-043-0-18
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / VOLLBORN	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: N/A	ELEVATION: 1083.9 (MSL) EOB: 5.5 ft.	PAGE 1 OF 1
START: 1/28/19 END: 1/28/19	SAMPLING METHOD: SPT	ENERGY RATIO (%): 72	COORD: 507140.5800 N, 2243041.2600 E	

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GRADATION (%) GR	CS	FS	SI	CL	ATTERBERG LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
	1083.9																	
PAVEMENT AND BASE 4" of asphalt 9" of concrete	1082.8	1																
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS**, SOME SAND, TRACE SILT, TRACE CLAY, DAMP	1081.4	2	14 10 9	23	67	SS-1	- -	- 69	- 14	- 12	- - 5	- -	- NP	- NP	- NP	- 9	A-1-a (0)	
SANDSTONE, WHITE.		TR 3	9 50	-	22	SS-2	-	-	-	-	-	-	-	-	-	12	Rock (V)	
		4				SS-3	-	-	-	-	-	-	-	-	-	11	Rock (V)	
	1078.4	EOB 5	50	-	17													

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED 1 BAG ASPHALT PATCH; AUGER CUTTINGS MIXED WITH BENTONITE CHIPS

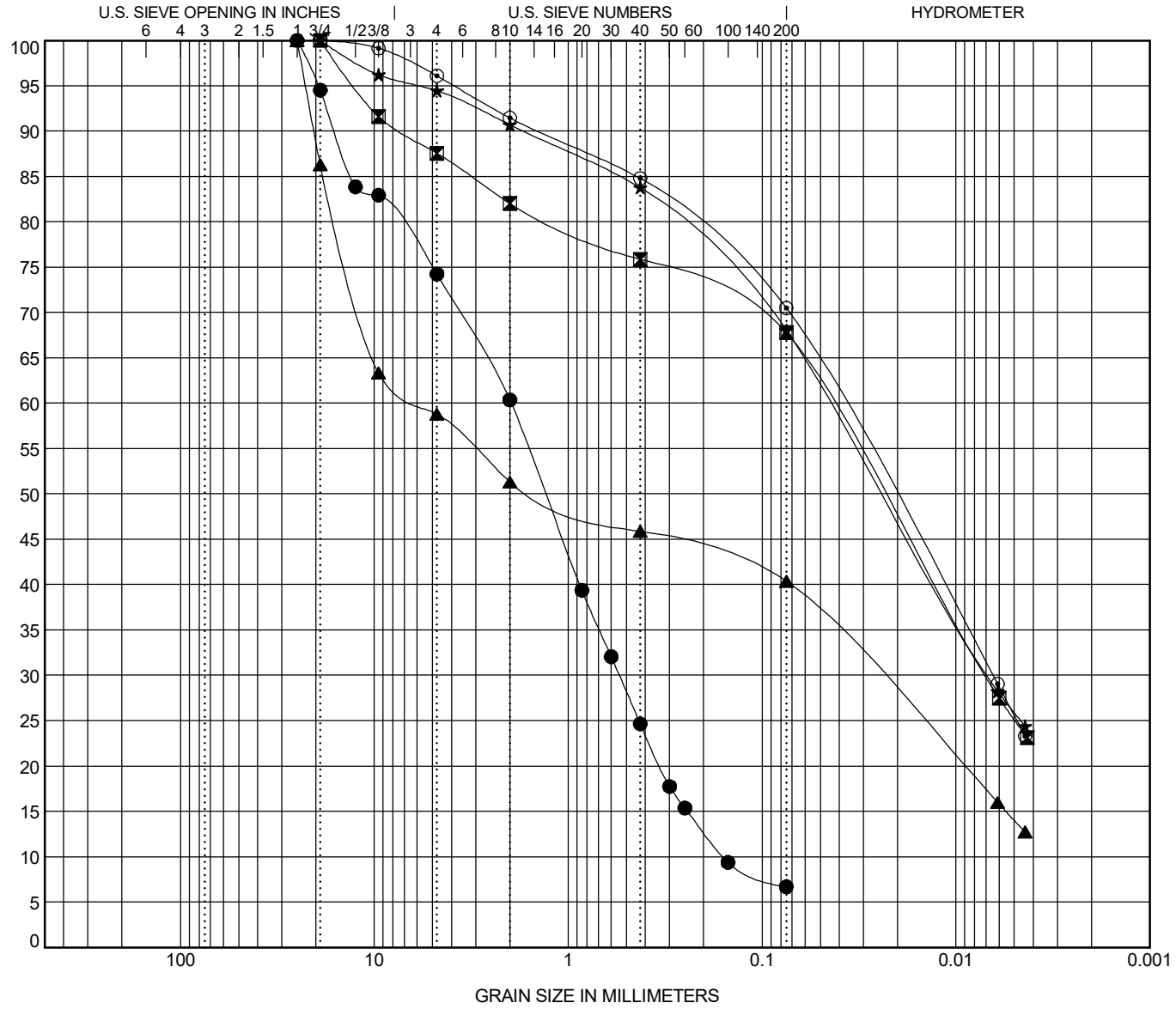
GRAIN SIZE REPORTS

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-004-0-18	1.0	A-1-b ~ POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	NP	NP	NP
⊠	B-004-0-18	2.5	A-4a ~ SANDY LEAN CLAY(CL)	26	17	9
▲	B-007-0-18	1.0	A-4a ~ CLAYEY GRAVEL with SAND(GC)	29	19	10
★	B-007-0-18	2.5	A-4a ~ SANDY LEAN CLAY(CL)	25	16	9
⊙	B-010-0-18	1.1	A-4a ~ LEAN CLAY with SAND(CL)	25	16	9

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-004-0-18	1.0	15.905	1.311	0.545	0.158	39	36	18	7		0.95	12.45
⊠	B-004-0-18	2.5	7.199	0.025	0.007		18	6	8	43	25		
▲	B-007-0-18	1.0	20.461	1.379	0.026		50	5	5	26	14		
★	B-007-0-18	2.5	1.71	0.024	0.007		9	7	16	42	26		
⊙	B-010-0-18	1.1	1.423	0.022	0.006		9	7	14	44	26		

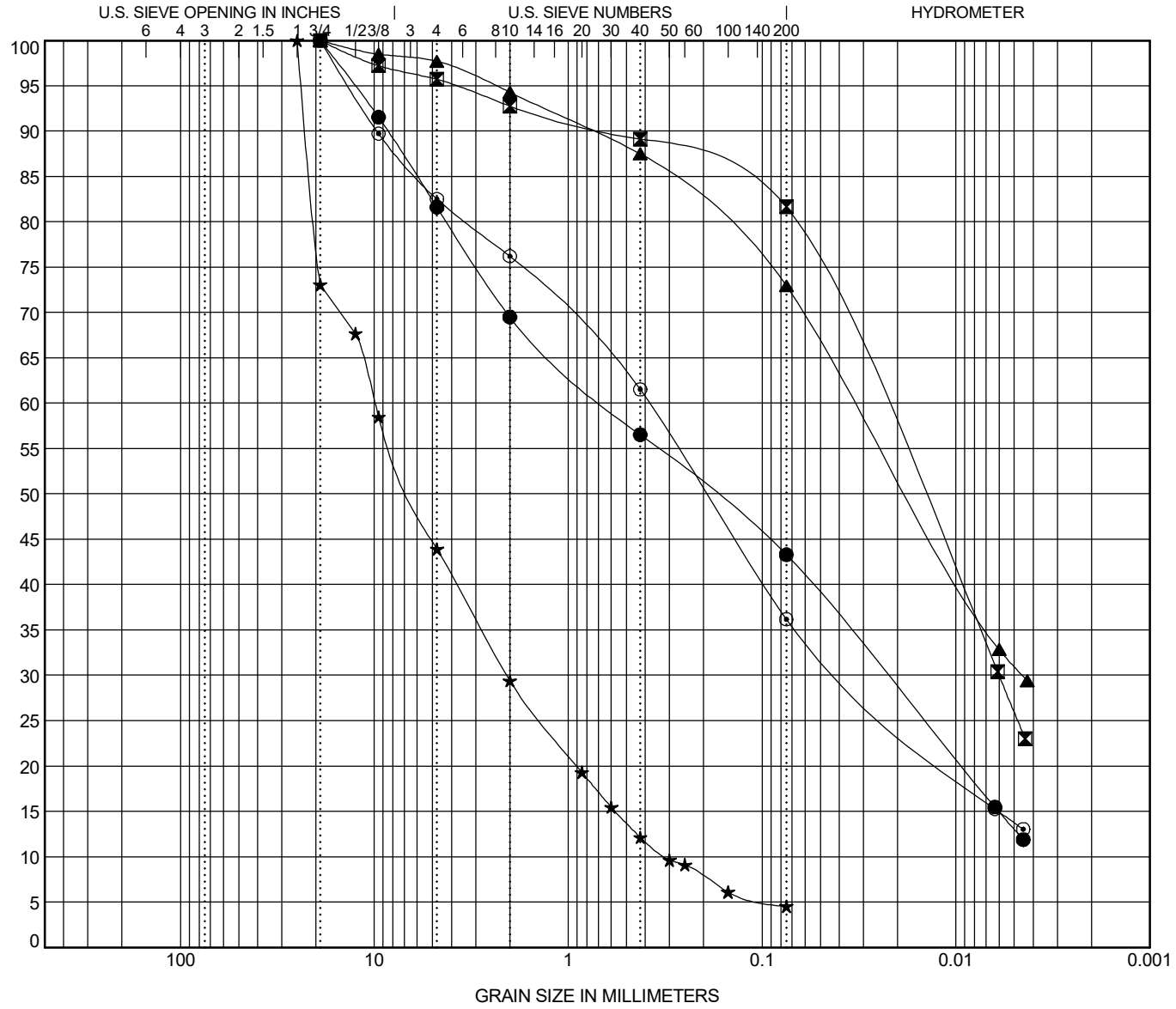
GRAIN SIZE - OH DOT.GDT - 5/8/20 11:06 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-010-0-18	2.5	A-6a ~ CLAYEY SAND with GRAVEL(SC)	32	21	11
⊠	B-011-0-18	1.3	A-4b ~ LEAN CLAY with SAND(CL)	27	19	8
▲	B-011-0-18	2.5	A-4a ~ LEAN CLAY with SAND(CL)	26	16	10
★	B-012-0-18	1.0	A-1-a ~ WELL-GRADED GRAVEL with SAND(GW)	NP	NP	NP
⊙	B-012-0-18	2.5	A-4a ~ SILTY, CLAYEY SAND with GRAVEL(SC-SM)	20	16	4

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-010-0-18	2.5	8.531	0.181	0.023		31	13	13	30	13		
⊠	B-011-0-18	1.3	0.613	0.016	0.006		7	4	7	56	26		
▲	B-011-0-18	2.5	0.752	0.018	0.005		5	7	15	42	31		
★	B-012-0-18	1.0	22.579	6.345	2.073	0.316	70	17	8	5		1.37	31.41
⊙	B-012-0-18	2.5	9.678	0.193	0.036		24	15	25	22	14		

GRAIN SIZE DISTRIBUTION

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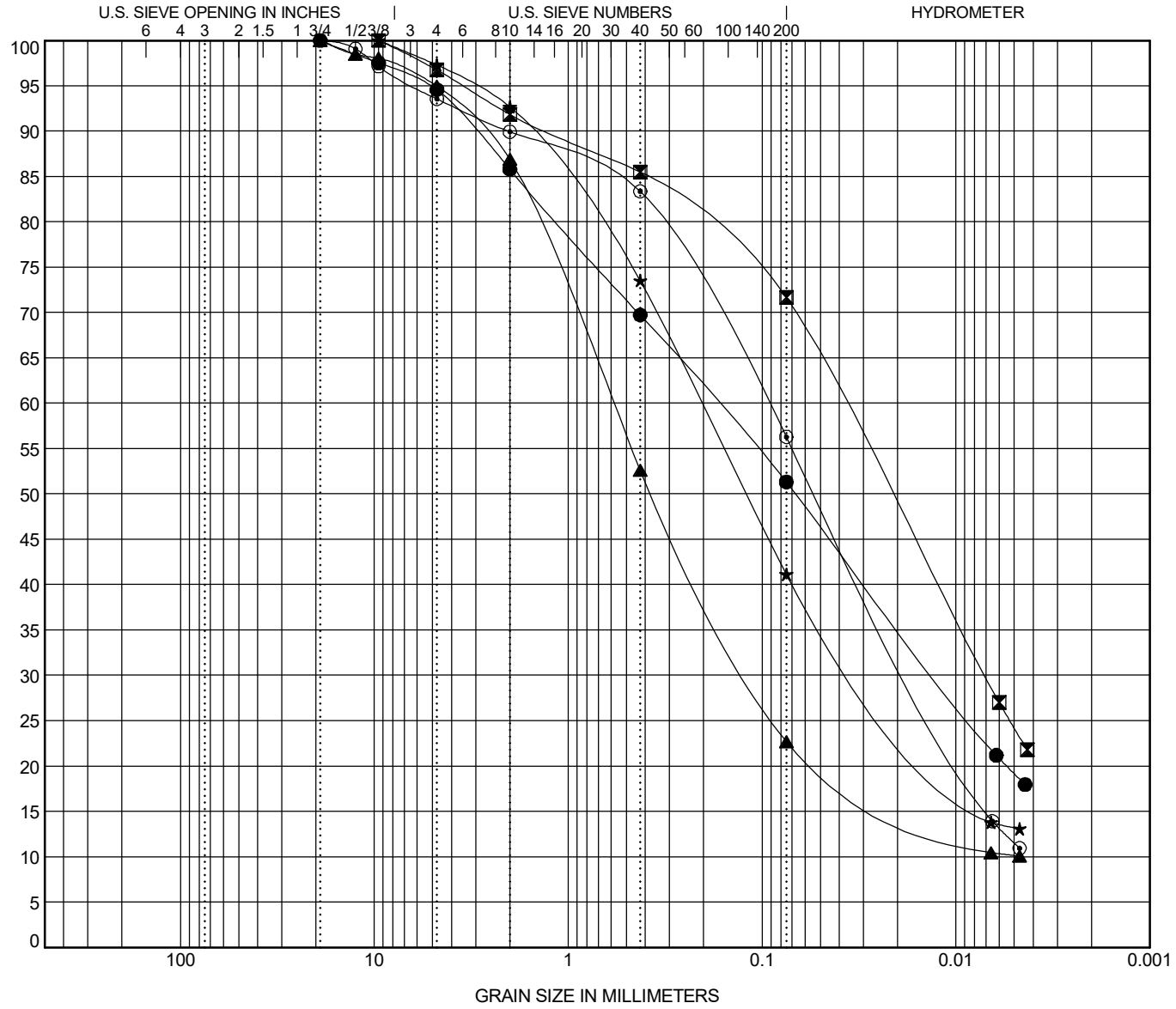
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-013-0-18	1.0	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**20**	**15**	**5**
⊠	B-013-0-18	2.5	**A-4a ~ LEAN CLAY with SAND(CL)**	**25**	**17**	**8**
▲	B-014-0-20	1.5	**A-3a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
★	B-014-0-20	3.0	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
⊙	B-014-0-20	4.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**18**	**13**	**5**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-013-0-18	1.0	**3.028**	**0.067**	**0.013**		**15**	**16**	**18**	**32**	**19**		
⊠	B-013-0-18	2.5	**1.278**	**0.022**	**0.007**		**8**	**6**	**14**	**48**	**24**		
▲	B-014-0-20	1.5	**2.791**	**0.365**	**0.115**		**13**	**34**	**30**	**13**	**10**		
★	B-014-0-20	3.0	**1.609**	**0.121**	**0.028**		**8**	**19**	**32**	**28**	**13**		
⊙	B-014-0-20	4.5	**2.035**	**0.052**	**0.016**		**10**	**7**	**27**	**45**	**11**		

GRAIN SIZE - OH DOT.GDT - 5/8/20 11:06 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

GRAIN SIZE DISTRIBUTION

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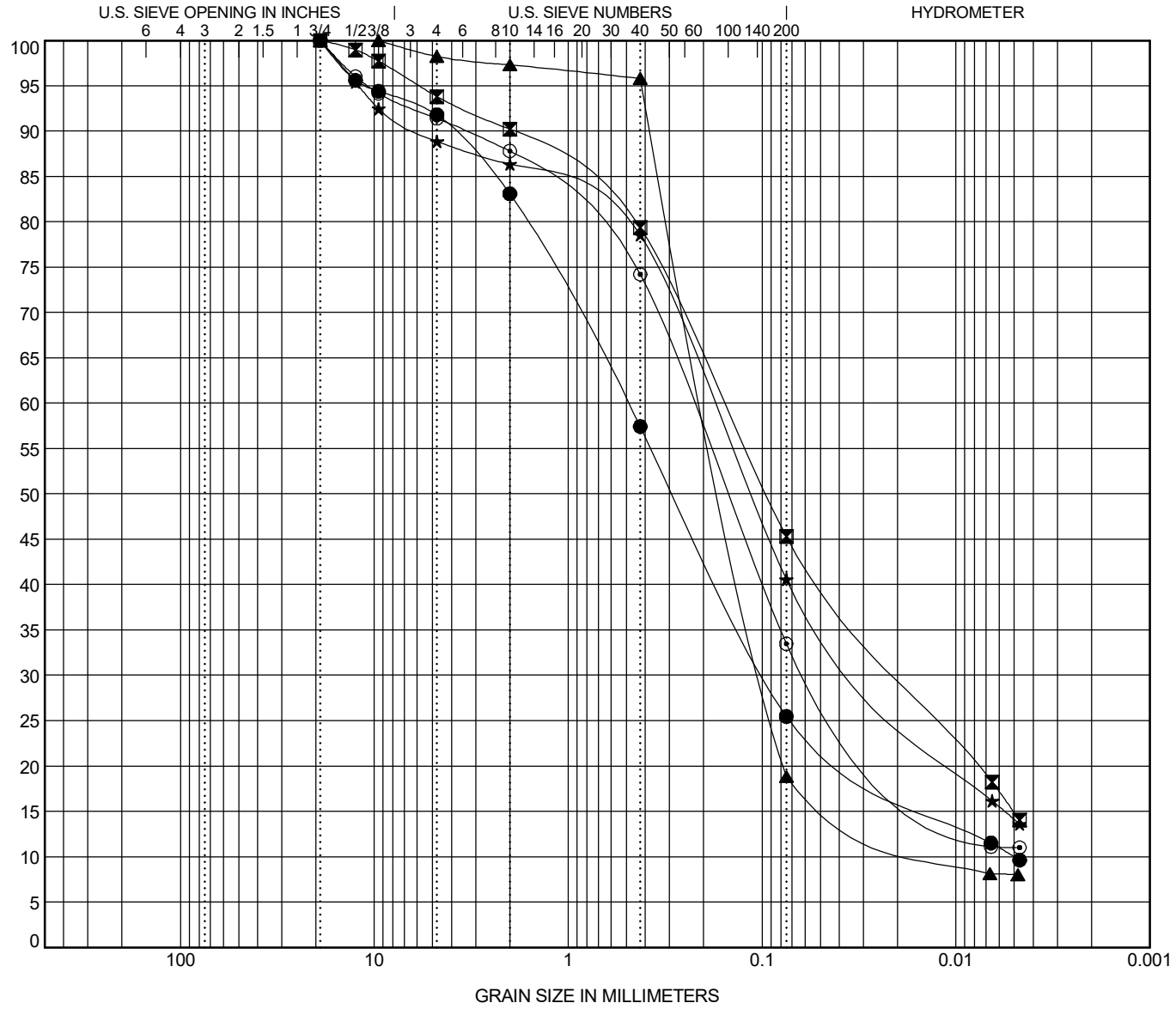
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-015-0-20	1.0	A-3a ~ SILTY SAND(SM)	NP	NP	NP
⊠	B-015-0-20	2.5	A-4a ~ SILTY, CLAYEY SAND(SC-SM)	19	14	5
▲	B-015-0-20	4.0	A-3a ~ SILTY SAND(SM)	NP	NP	NP
★	B-016-0-20	1.0	A-4a ~ SILTY, CLAYEY SAND(SC-SM)	23	16	7
⊙	B-016-0-20	2.5	A-3a ~ SILTY SAND(SM)	15	14	1

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-015-0-20	1.0	3.971	0.284	0.096	0.005	17	26	32	15	10	3.68	98.43
⊠	B-015-0-20	2.5	1.937	0.095	0.019		10	11	34	30	15		
▲	B-015-0-20	4.0	0.373	0.151	0.096	0.01	2	2	77	11	8	4.78	18.48
★	B-016-0-20	1.0	5.912	0.115	0.026		13	8	38	27	14		
⊙	B-016-0-20	2.5	3.387	0.152	0.051		12	14	41	22	11		

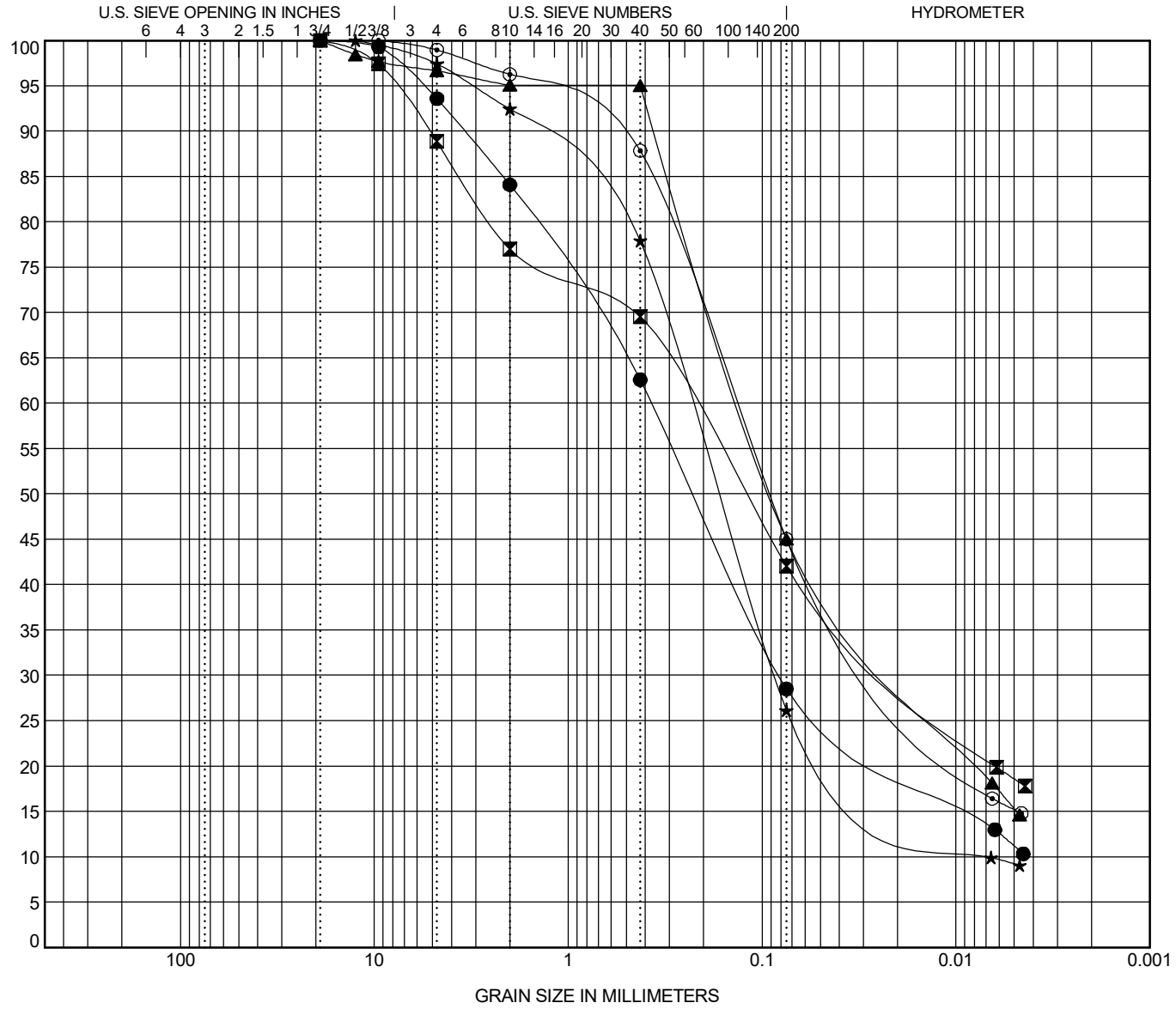
GRAIN SIZE - OH DOT.GDT - 5/8/20 11:06 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-017-0-18	1.0	A-3a ~ SILTY SAND(SM)	16	13	3
⊠	B-017-0-18	2.5	A-4a ~ CLAYEY SAND(SC)	22	14	8
▲	B-018-0-20	1.5	A-4a ~ SILTY SAND(SM)	NP	NP	NP
★	B-019-0-20	1.0	A-3a ~ SILTY SAND(SM)	NP	NP	NP
⊙	B-020-0-20	1.0	A-4a ~ SILTY SAND(SM)	NP	NP	NP

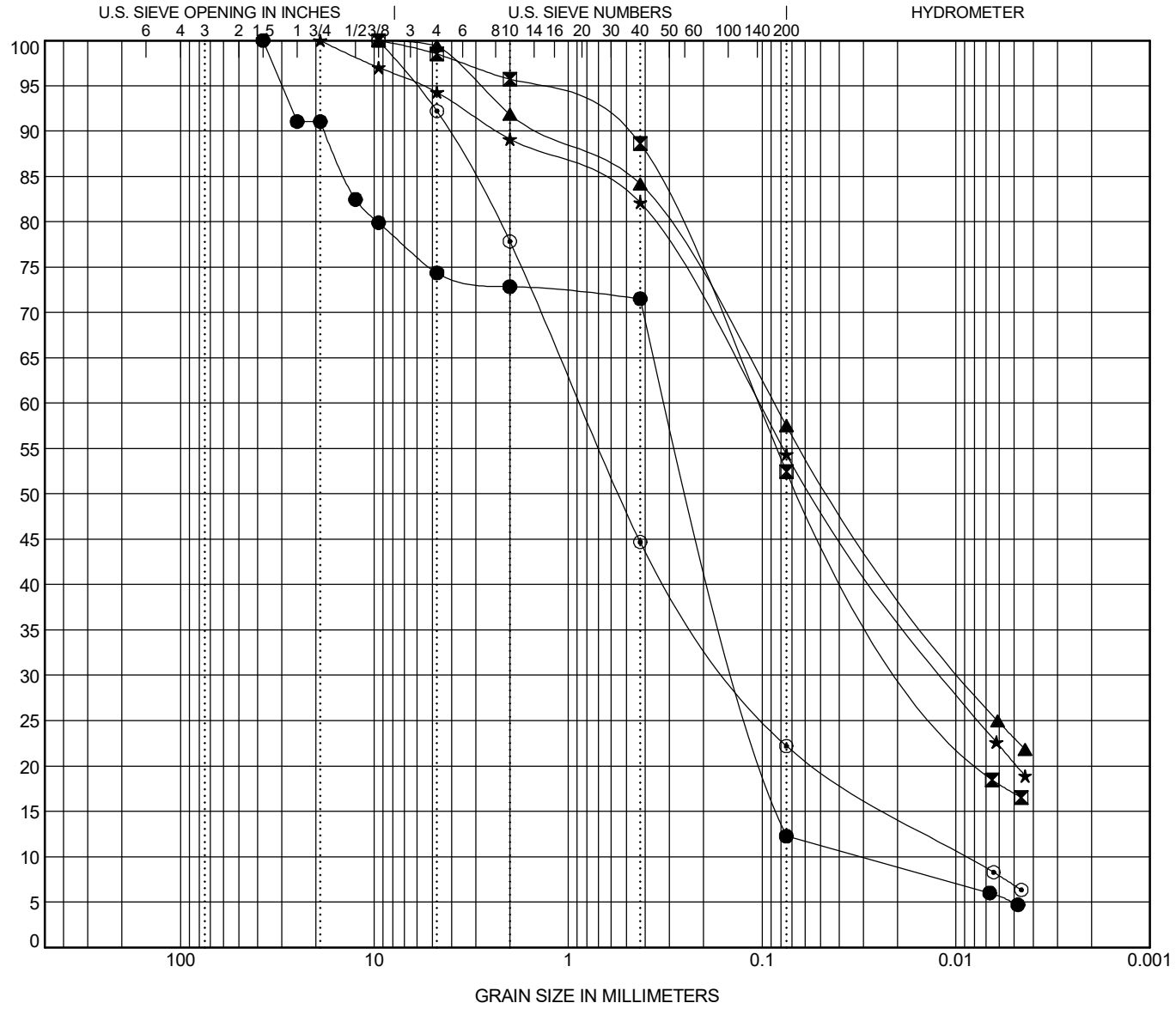
Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-017-0-18	1.0	3.427	0.224	0.081		17	21	34	17	11		
⊠	B-017-0-18	2.5	5.21	0.124	0.019		23	7	28	23	19		
▲	B-018-0-20	1.5	0.357	0.089	0.019		5	0	50	30	15		
★	B-019-0-20	1.0	1.54	0.167	0.085	0.007	7	15	52	17	9	4.66	34.78
⊙	B-020-0-20	1.0	0.632	0.092	0.021		4	8	43	30	15		

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-020-0-20	2.5	A-3a ~ SILTY SAND with GRAVEL(SM)	NP	NP	NP
⊠	B-020-0-20	4.0	A-4a ~ SANDY SILTY CLAY(CL-ML)	19	15	4
▲	B-021-0-18	1.0	A-4a ~ SANDY LEAN CLAY(CL)	23	15	8
★	B-021-0-18	2.5	A-4a ~ SANDY LEAN CLAY(CL)	23	15	8
⊙	B-022-0-18	1.0	A-1-b ~ SILTY, CLAYEY SAND(SC-SM)	25	21	4

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-020-0-20	2.5	18.044	0.226	0.126	0.031	28	1	59	7	5	1.67	9.65
⊠	B-020-0-20	4.0	0.57	0.063	0.015		5	7	36	35	17		
▲	B-021-0-18	1.0	1.372	0.042	0.009		7	8	27	35	23		
★	B-021-0-18	2.5	2.318	0.053	0.011		11	7	28	34	20		
⊙	B-022-0-18	1.0	4.157	0.545	0.137	0.009	23	33	22	15	7	2.49	100.11

GRAIN SIZE - OH DOT.GDT - 5/8/20 11:07 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

GRAIN SIZE DISTRIBUTION

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OFFICE OF GEOTECHNICAL ENGINEERING

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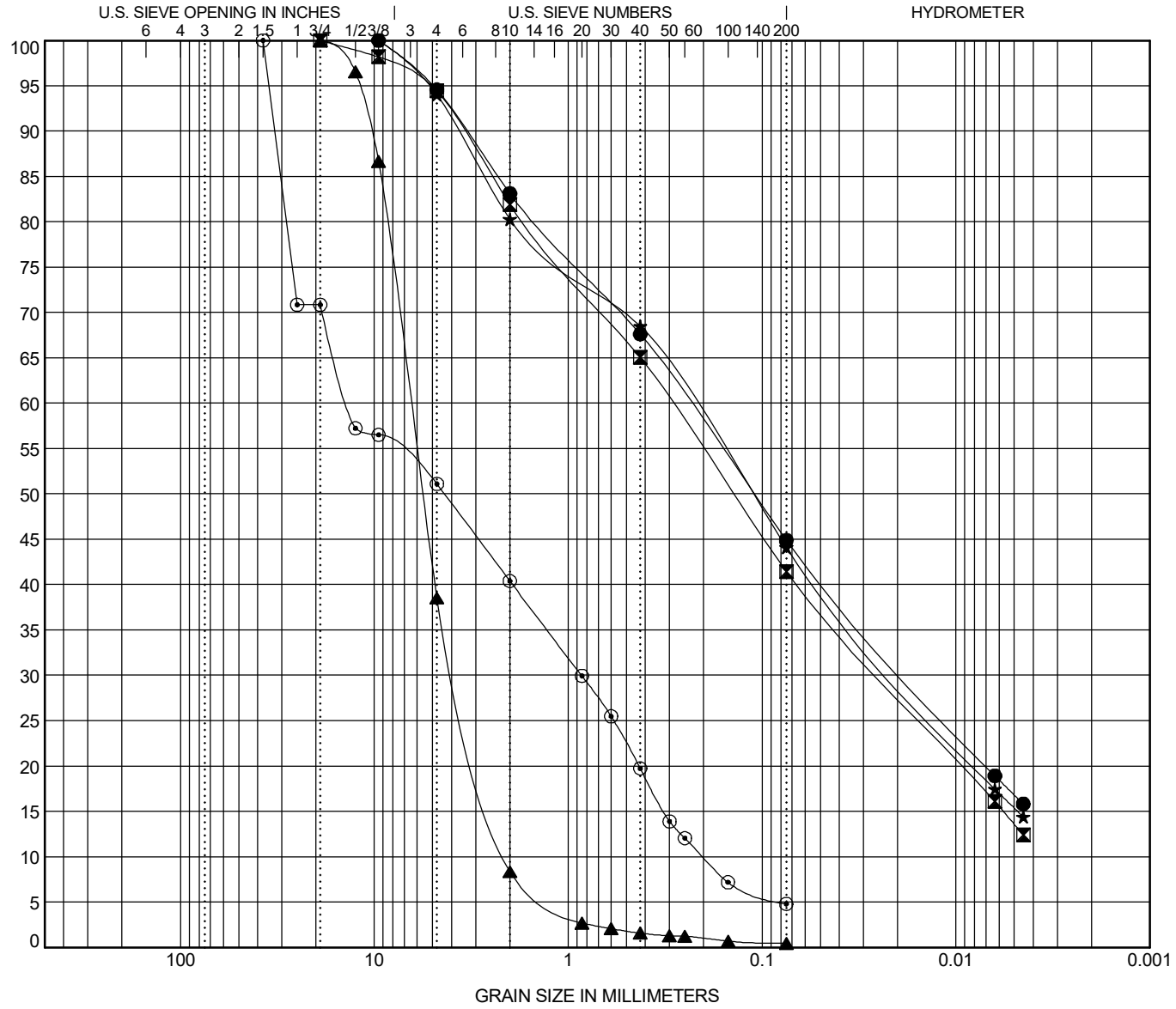

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-023-0-18	1.3	**A-4a ~ CLAYEY SAND(SC)**	**28**	**18**	**10**
⊠	B-023-0-18	2.5	**A-4a ~ CLAYEY SAND(SC)**	**27**	**18**	**9**
▲	B-024-0-18	1.0	**A-1-a ~ POORLY GRADED GRAVEL with SAND(GP)**	**NP**	**NP**	**NP**
★	B-024-0-18	2.5	**A-4a ~ SILTY, CLAYEY SAND(SC-SM)**	**22**	**15**	**7**
⊙	B-025-0-18	1.0	**A-1-a ~ POORLY GRADED GRAVEL with SAND(GP)**	**NP**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-023-0-18	1.3	**3.36**	**0.111**	**0.018**		**16**	**16**	**23**	**28**	**17**		
⊠	B-023-0-18	2.5	**3.495**	**0.141**	**0.025**		**18**	**17**	**24**	**27**	**14**		
▲	B-024-0-18	1.0	**10.422**	**5.604**	**3.721**	**2.098**	**92**	**7**	**1**	**0**		**1.02**	**3.08**
★	B-024-0-18	2.5	**3.684**	**0.114**	**0.02**		**20**	**12**	**24**	**29**	**15**		
⊙	B-025-0-18	1.0	**32.63**	**4.347**	**0.854**	**0.202**	**59**	**21**	**15**	**5**		**0.27**	**67.38**

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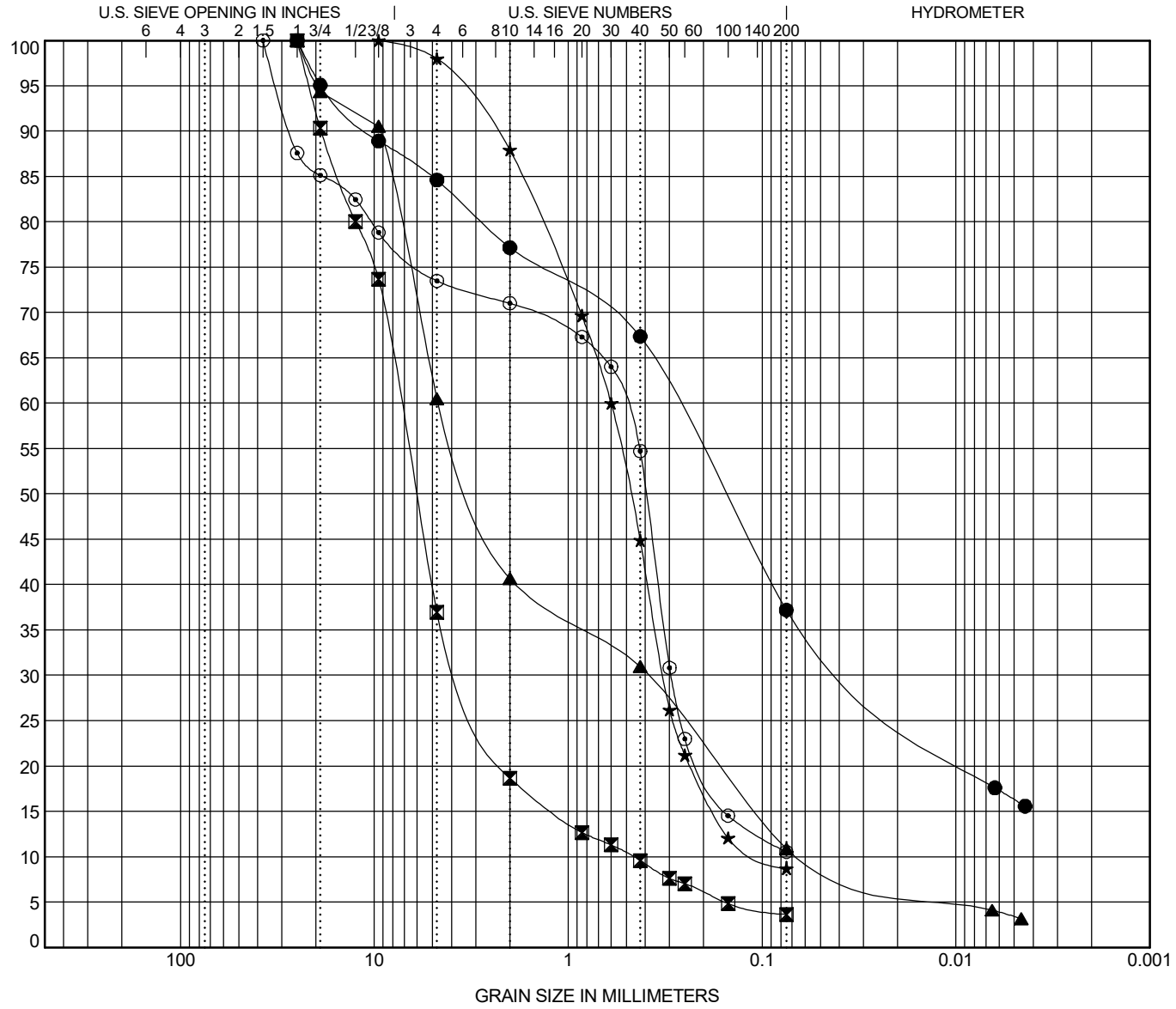

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-025-0-18	2.5	**A-4a ~ CLAYEY SAND with GRAVEL(SC)**	**21**	**13**	**8**
⊠	B-026-0-18	1.1	**A-1-a ~ POORLY GRADED GRAVEL with SAND(GP)**	**NP**	**NP**	**NP**
▲	B-026-0-18	2.5	**A-1-b ~ POORLY GRADED SAND with SILT and GRAVEL(SP-SM)**	**NP**	**NP**	**NP**
★	B-027-0-18	1.0	**A-1-b ~ WELL-GRADED SAND with SILT(SW-SM)**	**NP**	**NP**	**NP**
⊙	B-027-0-18	2.5	**A-3a ~ WELL-GRADED SAND with SILT and GRAVEL(SW-SM)**	**NP**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-025-0-18	2.5	**10.738**	**0.157**	**0.03**		**23**	**10**	**30**	**21**	**16**		
⊠	B-026-0-18	1.1	**18.73**	**6.077**	**3.42**	**0.463**	**81**	**9**	**6**	**4**		**3.44**	**15.84**
▲	B-026-0-18	2.5	**9.383**	**3.005**	**0.392**	**0.055**	**59**	**10**	**20**	**8**	**3**	**0.60**	**84.62**
★	B-027-0-18	1.0	**2.389**	**0.478**	**0.322**	**0.098**	**12**	**43**	**36**	**9**		**1.76**	**6.11**
⊙	B-027-0-18	2.5	**27.049**	**0.397**	**0.294**		**29**	**16**	**44**	**11**		**2.45**	**7.54**

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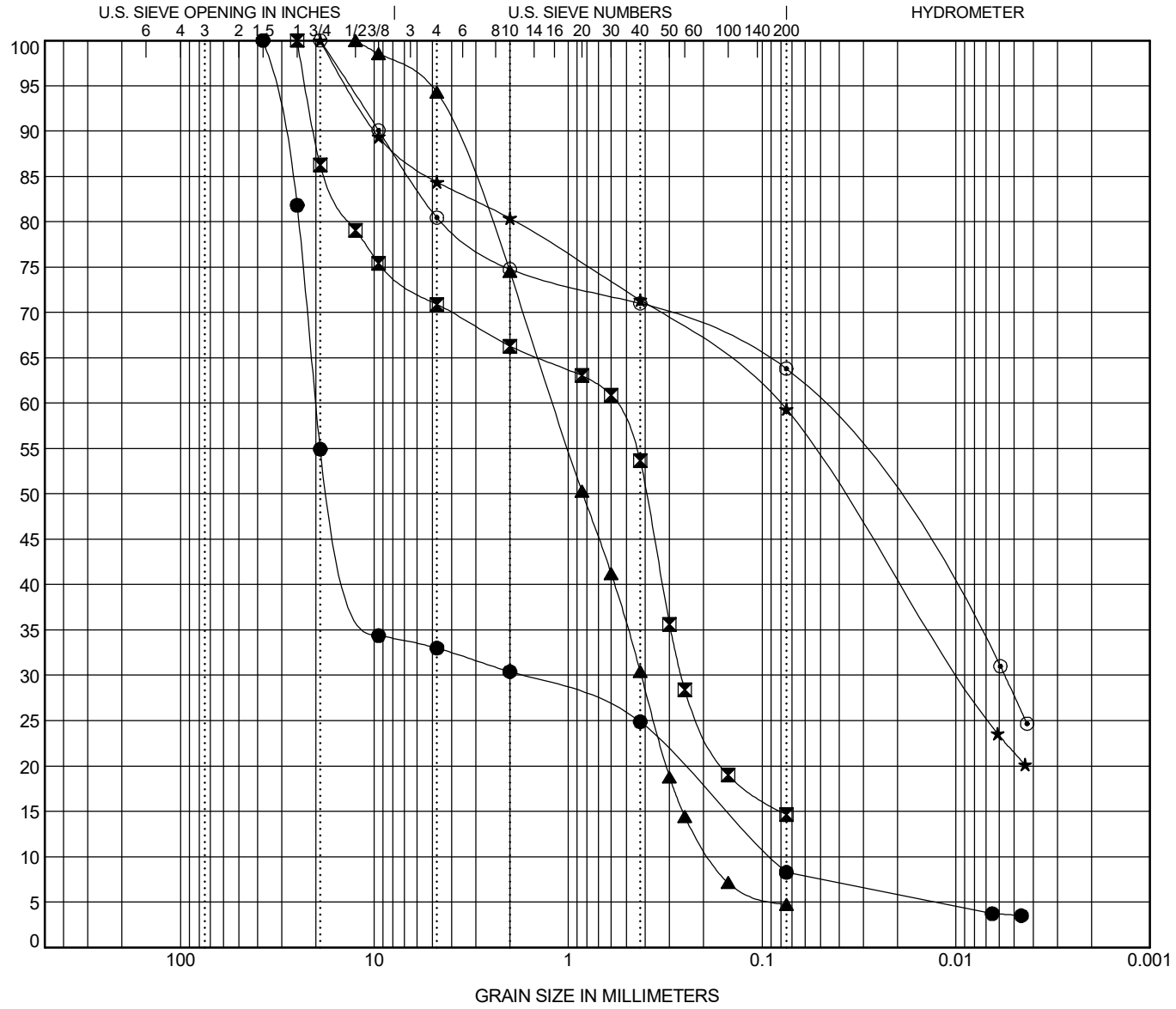

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-028-0-18	1.2	A-1-a ~ WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	NP	NP	NP
⊠	B-028-0-18	2.5	A-3a ~ SILTY SAND with GRAVEL(SM)	NP	NP	NP
▲	B-029-0-18	1.0	A-1-b ~ POORLY GRADED SAND(SP)	NP	NP	NP
★	B-029-0-18	2.5	A-4a ~ SANDY LEAN CLAY with GRAVEL(CL)	28	20	8
⊙	B-030-0-18	1.0	A-4a ~ GRAVELLY LEAN CLAY with SAND(CL)	31	21	10

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-028-0-18	1.2	30.002	16.092	1.789	0.09	69	6	17	4	4	1.78	222.55
⊠	B-028-0-18	2.5	20.463	0.396	0.26		33	13	39	15			
▲	B-029-0-18	1.0	3.938	0.84	0.42	0.183	25	44	26	5		0.80	6.53
★	B-029-0-18	2.5	9.896	0.039	0.01		20	9	12	38	21		
⊙	B-030-0-18	1.0	9.442	0.026	0.006		25	4	7	36	28		

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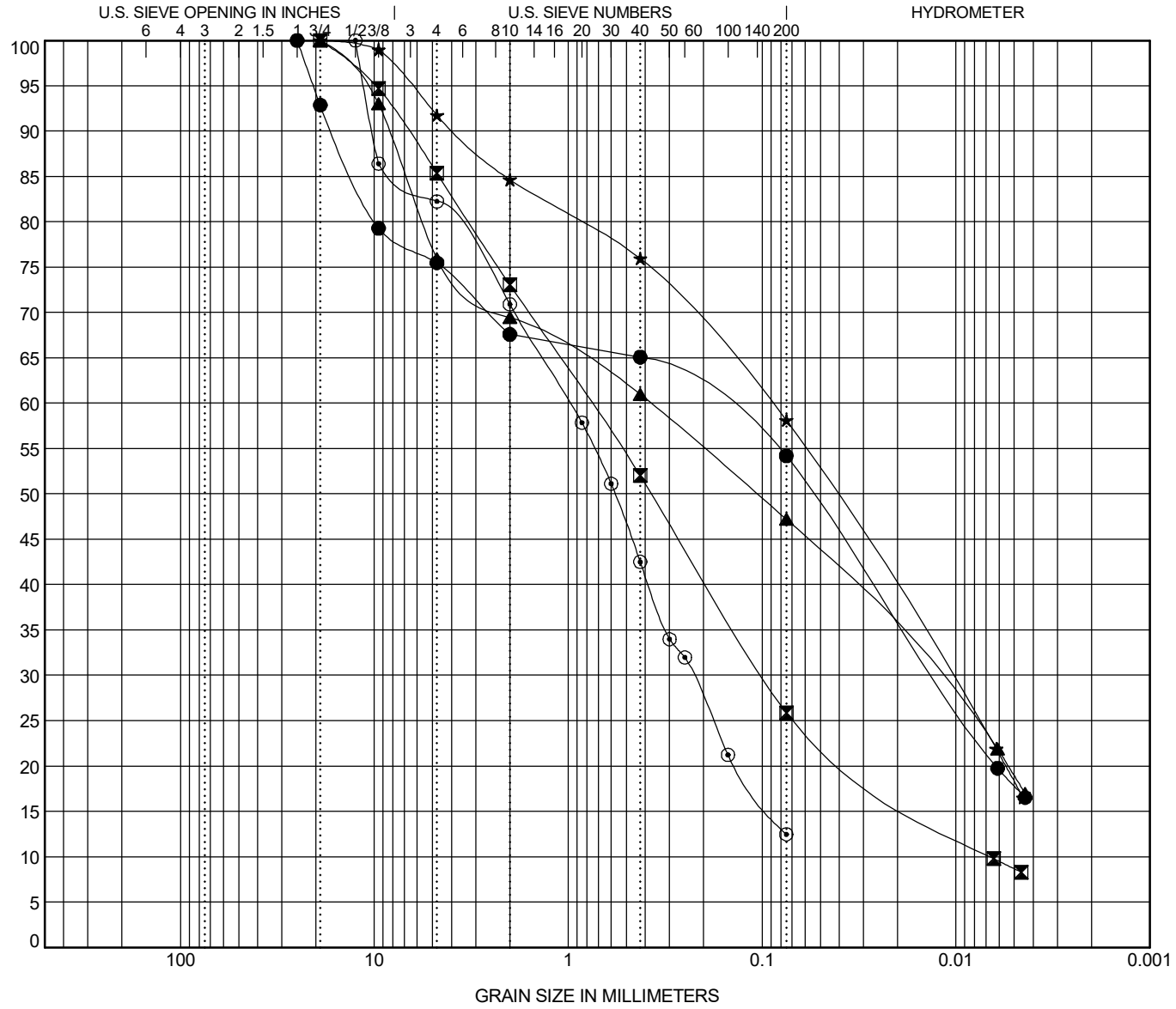

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-030-0-18	2.5	**A-6a ~ GRAVELLY LEAN CLAY with SAND(CL)**	30	19	11
⊠	B-031-0-18	1.0	**A-2-4 ~ SILTY SAND(SM)**	28	23	5
▲	B-031-0-18	2.5	**A-6a ~ CLAYEY SAND with GRAVEL(SC)**	28	16	12
★	B-032-0-18	1.0	**A-4a ~ SANDY LEAN CLAY(CL)**	27	19	8
⊙	B-032-0-18	2.5	**A-1-b ~ SILTY SAND with GRAVEL(SM)**	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-030-0-18	2.5	16.407	0.055	0.013		32	3	11	36	18		
⊠	B-031-0-18	1.0	6.7	0.371	0.099	0.007	27	21	26	17	9	1.92	115.41
▲	B-031-0-18	2.5	8.406	0.107	0.014		31	8	14	28	19		
★	B-032-0-18	1.0	3.833	0.043	0.011		15	9	18	40	18		
⊙	B-032-0-18	2.5	10.214	0.574	0.228		30	28	30	12		0.86	15.86

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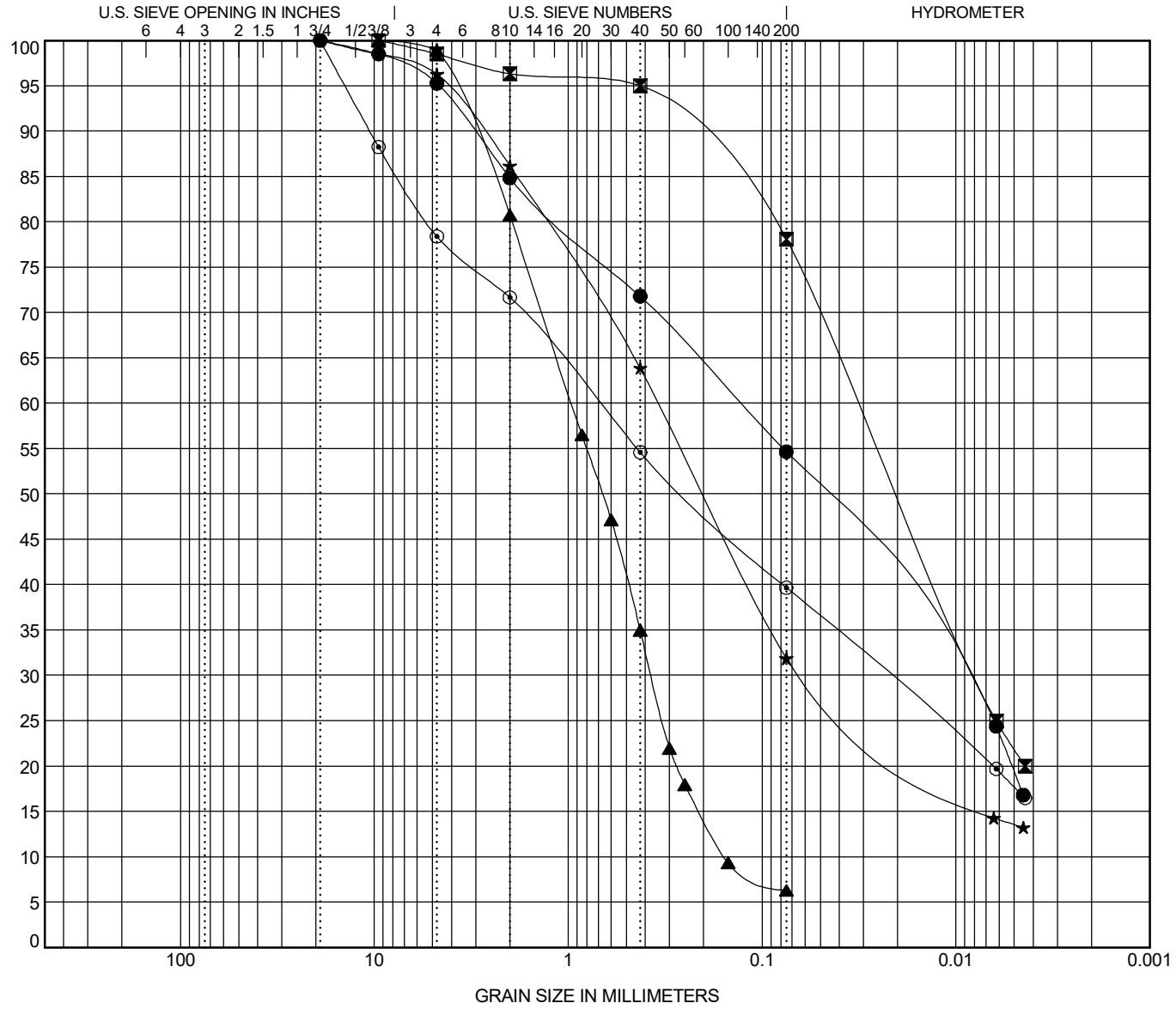

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-033-0-18	1.1	**A-4a ~ SANDY LEAN CLAY(CL)**	**24**	**16**	**8**
⊠	B-033-0-18	2.5	**A-4b ~ SILTY CLAY with SAND(CL-ML)**	**25**	**18**	**7**
▲	B-034-0-18	1.0	**A-1-b ~ POORLY GRADED SAND with SILT(SP-SM)**	**NP**	**NP**	**NP**
★	B-034-0-18	2.5	**A-2-4 ~ CLAYEY SAND(SC)**	**17**	**8**	**9**
⊙	B-035-0-18	1.1	**A-6a ~ CLAYEY SAND with GRAVEL(SC)**	**27**	**15**	**12**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-033-0-18	1.1	**3.065**	**0.051**	**0.01**		**15**	**13**	**17**	**36**	**19**		
⊠	B-033-0-18	2.5	**0.254**	**0.02**	**0.008**		**4**	**1**	**17**	**56**	**22**		
▲	B-034-0-18	1.0	**3.107**	**0.667**	**0.372**	**0.156**	**19**	**46**	**29**	**6**		**0.92**	**6.15**
★	B-034-0-18	2.5	**2.772**	**0.2**	**0.058**		**14**	**22**	**32**	**18**	**14**		
⊙	B-035-0-18	1.1	**10.533**	**0.249**	**0.023**		**28**	**17**	**15**	**22**	**18**		

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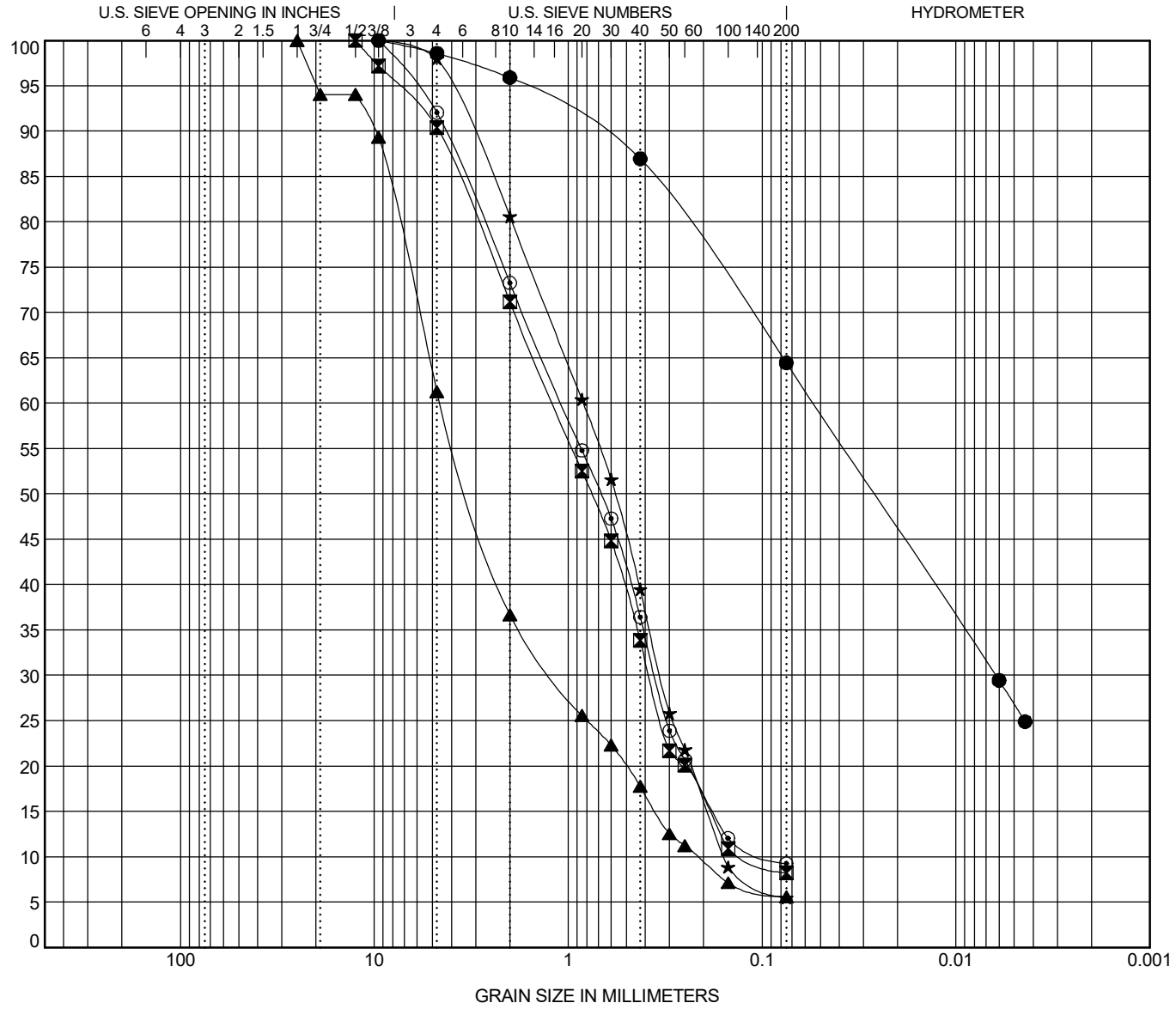

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-035-0-18	2.5	A-4a ~ SANDY LEAN CLAY(CL)	24	14	10
⊠	B-036-0-18	1.0	A-1-b ~ WELL-GRADED SAND with SILT(SW-SM)	NP	NP	NP
▲	B-036-0-18	2.5	A-1-a ~ WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	NP	NP	NP
★	B-037-0-18	1.0	A-1-b ~ POORLY GRADED SAND with SILT(SP-SM)	NP	NP	NP
⊙	B-037-0-18	2.5	A-1-b ~ WELL-GRADED SAND with SILT(SW-SM)	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-035-0-18	2.5	0.72	0.026	0.006		4	9	23	37	27		
⊠	B-036-0-18	1.0	4.661	0.758	0.381	0.119	29	37	26	8		1.02	10.05
▲	B-036-0-18	2.5	9.879	3.196	1.197	0.215	63	19	12	6		1.47	21.14
★	B-037-0-18	1.0	3.191	0.573	0.334	0.157	20	41	34	5		0.85	5.33
⊙	B-037-0-18	2.5	4.323	0.681	0.356	0.091	27	37	27	9		1.29	11.93

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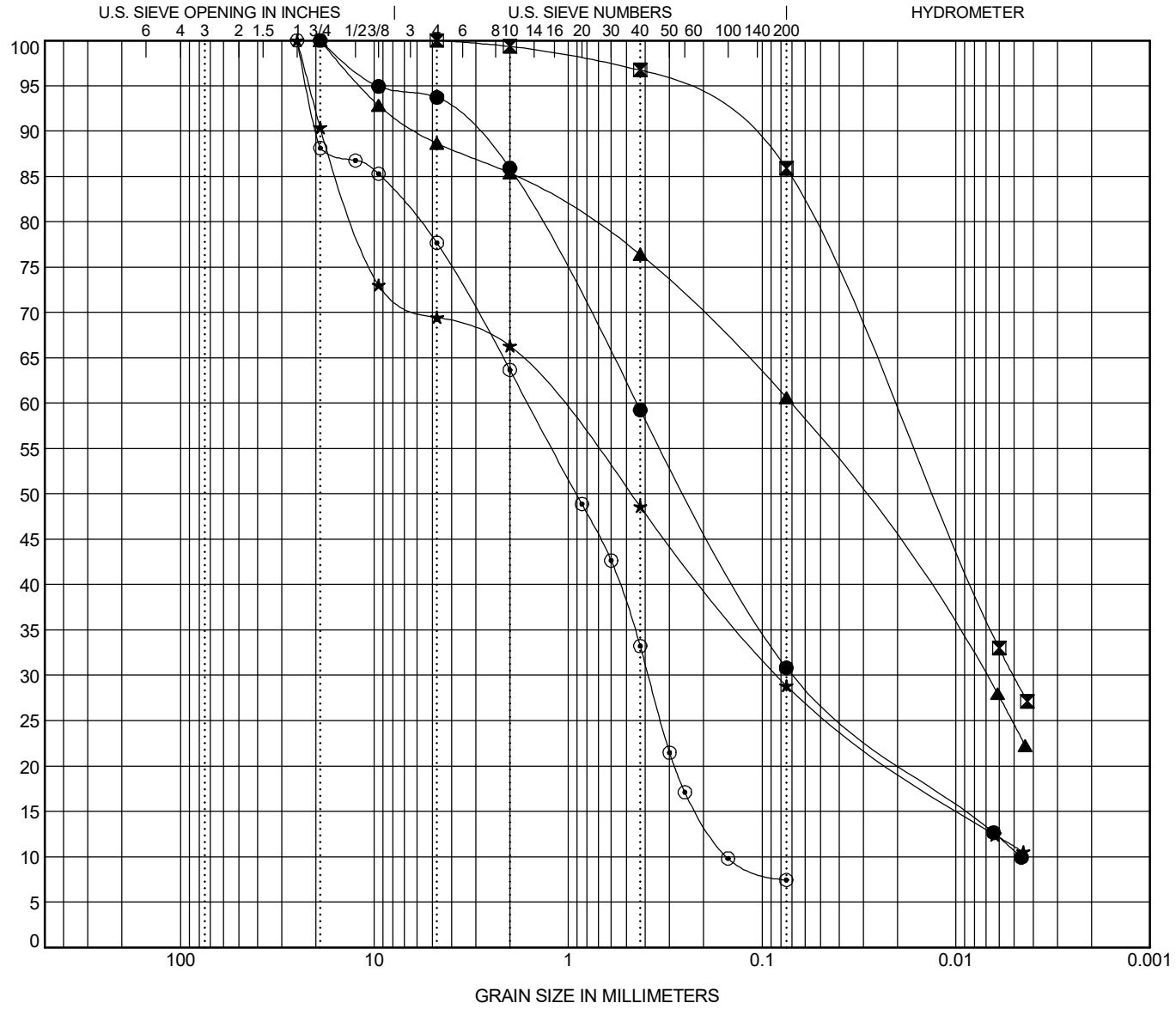

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-038-0-18	1.3	A-3a ~ SILTY, CLAYEY SAND(SC-SM)	18	12	6
⊠	B-038-0-18	2.5	A-4b ~ LEAN CLAY(CL)	27	18	9
▲	B-039-0-18	1.1	A-4a ~ SANDY LEAN CLAY(CL)	28	20	8
★	B-039-0-18	2.5	A-2-4 ~ CLAYEY SAND with GRAVEL(SC)	25	17	8
⊙	B-040-0-18	1.0	A-1-b ~ POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-038-0-18	1.3	3.143	0.242	0.067	0.005	14	27	28	20	11	2.18	95.33
⊠	B-038-0-18	2.5	0.144	0.014	0.005		0	3	11	56	30		
▲	B-039-0-18	1.1	5.933	0.033	0.007		14	9	16	37	24		
★	B-039-0-18	2.5	18.7	0.48	0.083		33	18	20	18	11		
⊙	B-040-0-18	1.0	19.837	0.906	0.386	0.152	37	30	26	7		0.61	10.63

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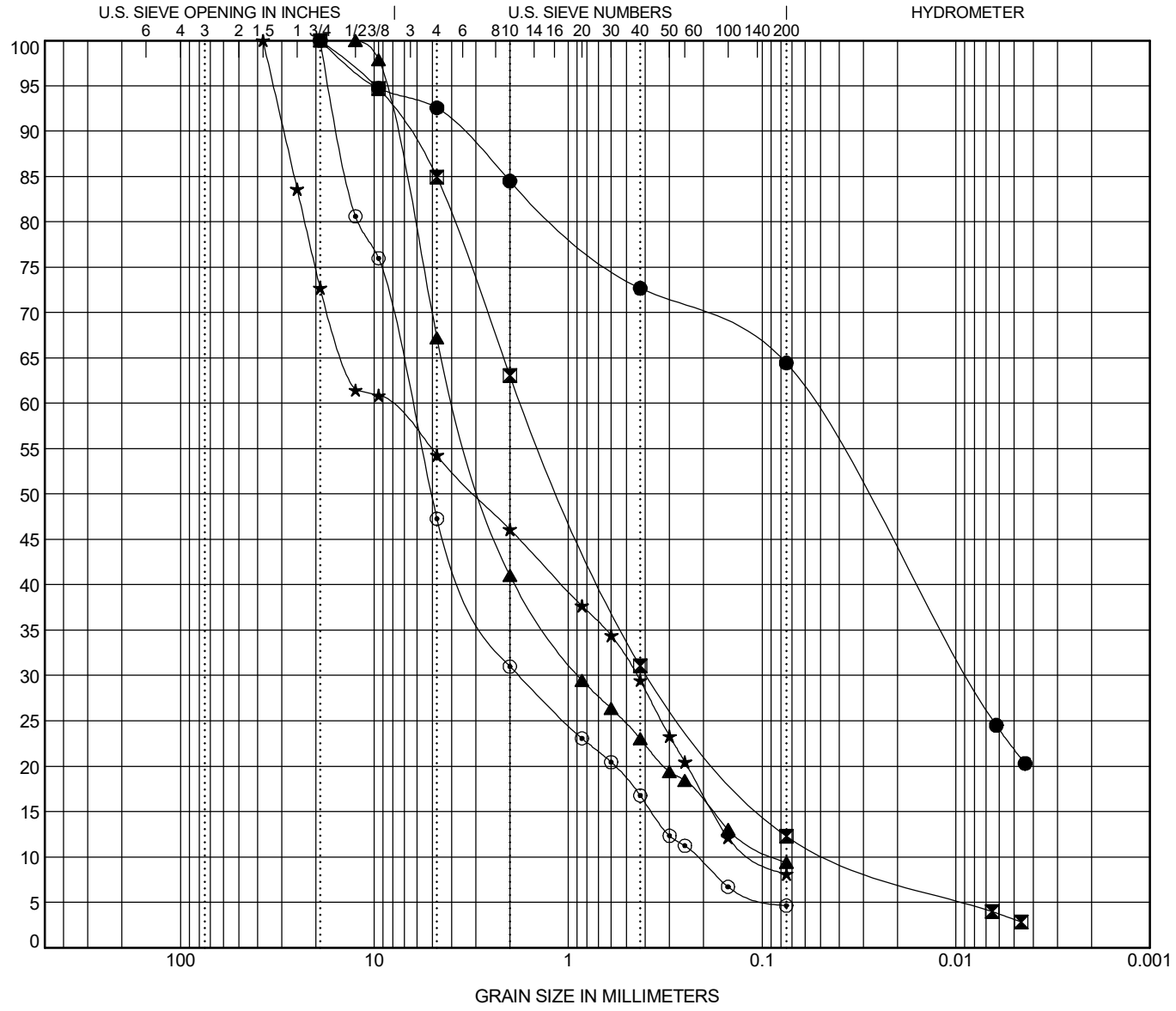

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-040-0-18	2.5	A-4a ~ SANDY LEAN CLAY(CL)	29	20	9
⊠	B-041-0-18	1.2	A-1-b ~ SILTY SAND with GRAVEL(SM)	NP	NP	NP
▲	B-041-0-18	2.5	A-1-a ~ WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	NP	NP	NP
★	B-042-0-18	1.0	A-1-a ~ POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	NP	NP	NP
⊙	B-043-0-18	1.1	A-1-a ~ WELL-GRADED GRAVEL with SAND(GW)	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-040-0-18	2.5	3.606	0.03	0.009		16	12	8	42	22		
⊠	B-041-0-18	1.2	6.809	1.064	0.386	0.039	37	32	19	9	3	2.25	44.84
▲	B-041-0-18	2.5	7.947	2.691	0.884	0.084	59	18	14	9		2.48	44.54
★	B-042-0-18	1.0	29.274	3.02	0.441	0.104	54	17	21	8		0.22	83.45
⊙	B-043-0-18	1.1	15.309	5.073	1.799	0.218	69	14	12	5		2.30	29.65

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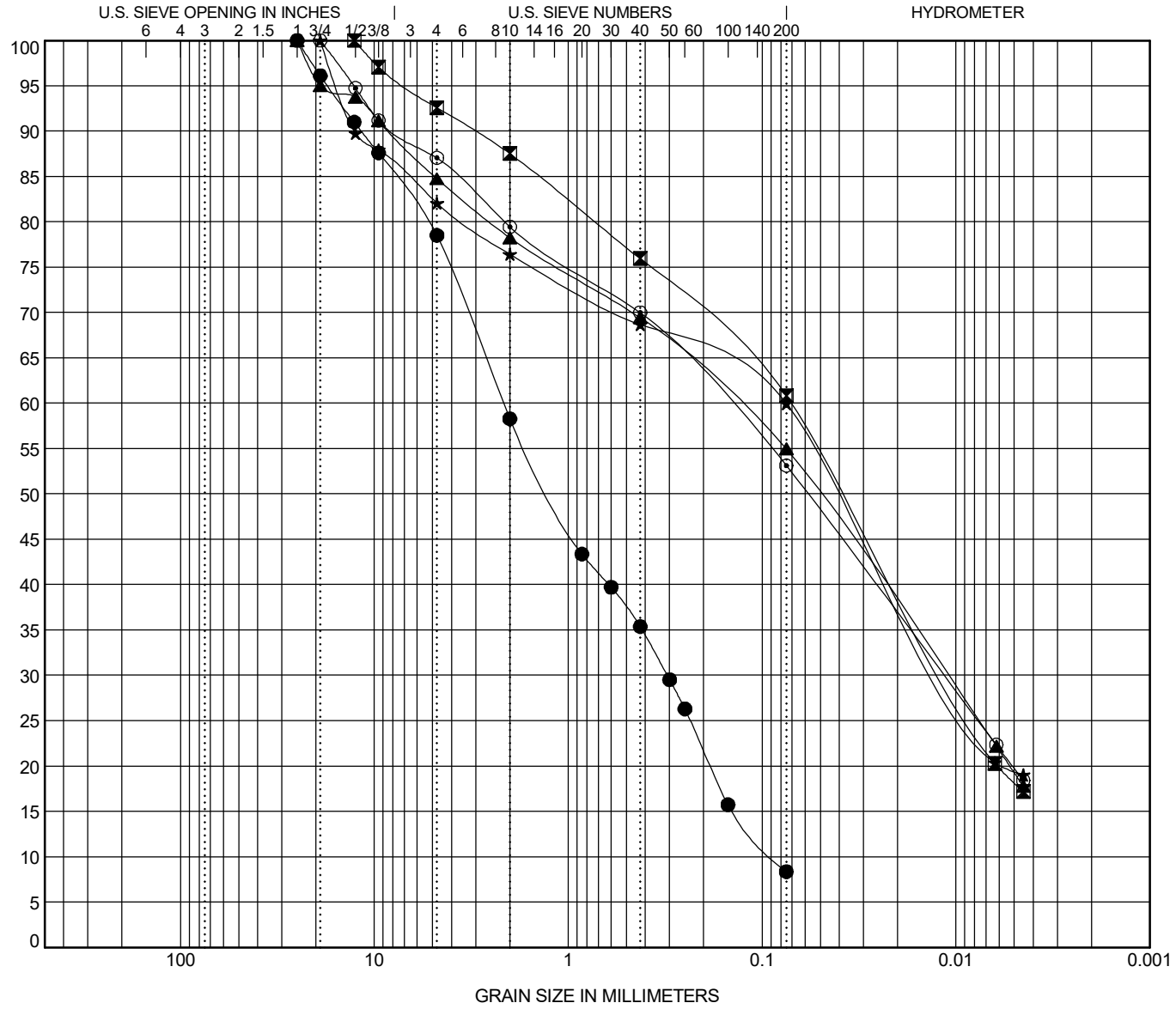

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-009-1-19	1.0	~			
⊠	B-009-1-19	2.5	A-4a ~ SANDY SILTY CLAY(CL-ML)	24	18	6
▲	B-009-1-19	4.0	A-4a ~ SANDY SILTY CLAY with GRAVEL(CL-ML)	22	15	7
★	B-009-1-19	5.5	A-4a ~ SANDY LEAN CLAY with GRAVEL(CL)	25	16	9
⊙	B-009-1-19	8.5	A-4a ~ SANDY SILTY CLAY(CL-ML)	22	15	7

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-009-1-19	1.0	11.658	1.244	0.309	0.088	42	23	27	8		0.51	24.56
⊠	B-009-1-19	2.5	3.053	0.039	0.011		12	12	15	43	18		
▲	B-009-1-19	4.0	8.381	0.051	0.011		22	9	14	36	19		
★	B-009-1-19	5.5	12.62	0.04	0.012		23	8	9	41	19		
⊙	B-009-1-19	8.5	7.785	0.058	0.012		21	9	17	33	20		

GRAIN SIZE - OH DOT.GDT - 5/8/20 11:20 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

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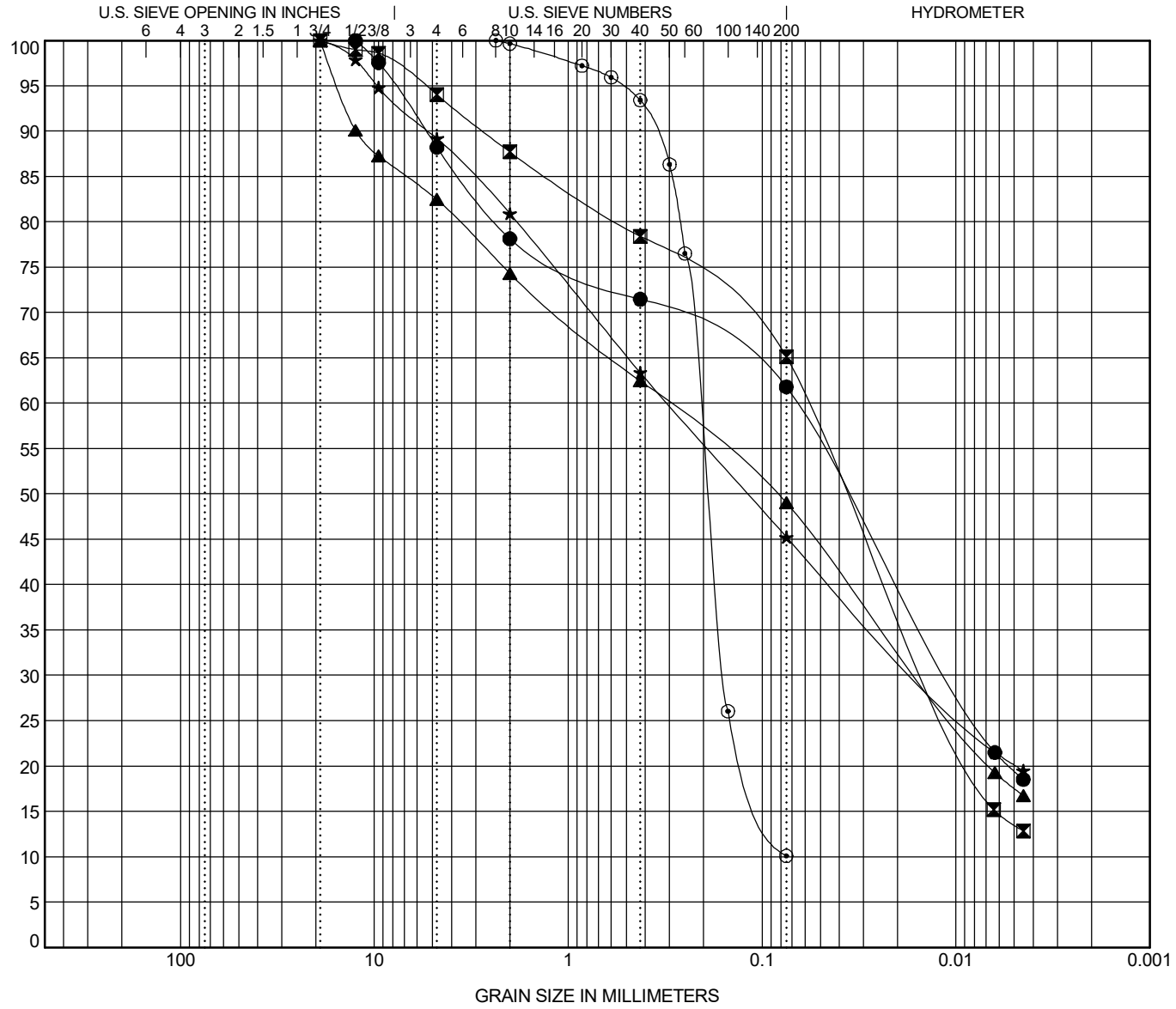


COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-009-1-19	11.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**26**	**18**	**8**
⊠	B-009-1-19	13.5	**A-6a ~ SANDY LEAN CLAY(CL)**	**29**	**18**	**11**
▲	B-009-1-19	18.5	**A-4a ~ SILTY, CLAYEY SAND with GRAVEL(SC-SM)**	**25**	**18**	**7**
★	B-009-1-19	23.5	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
⊙	B-009-1-19	28.5	**~**			

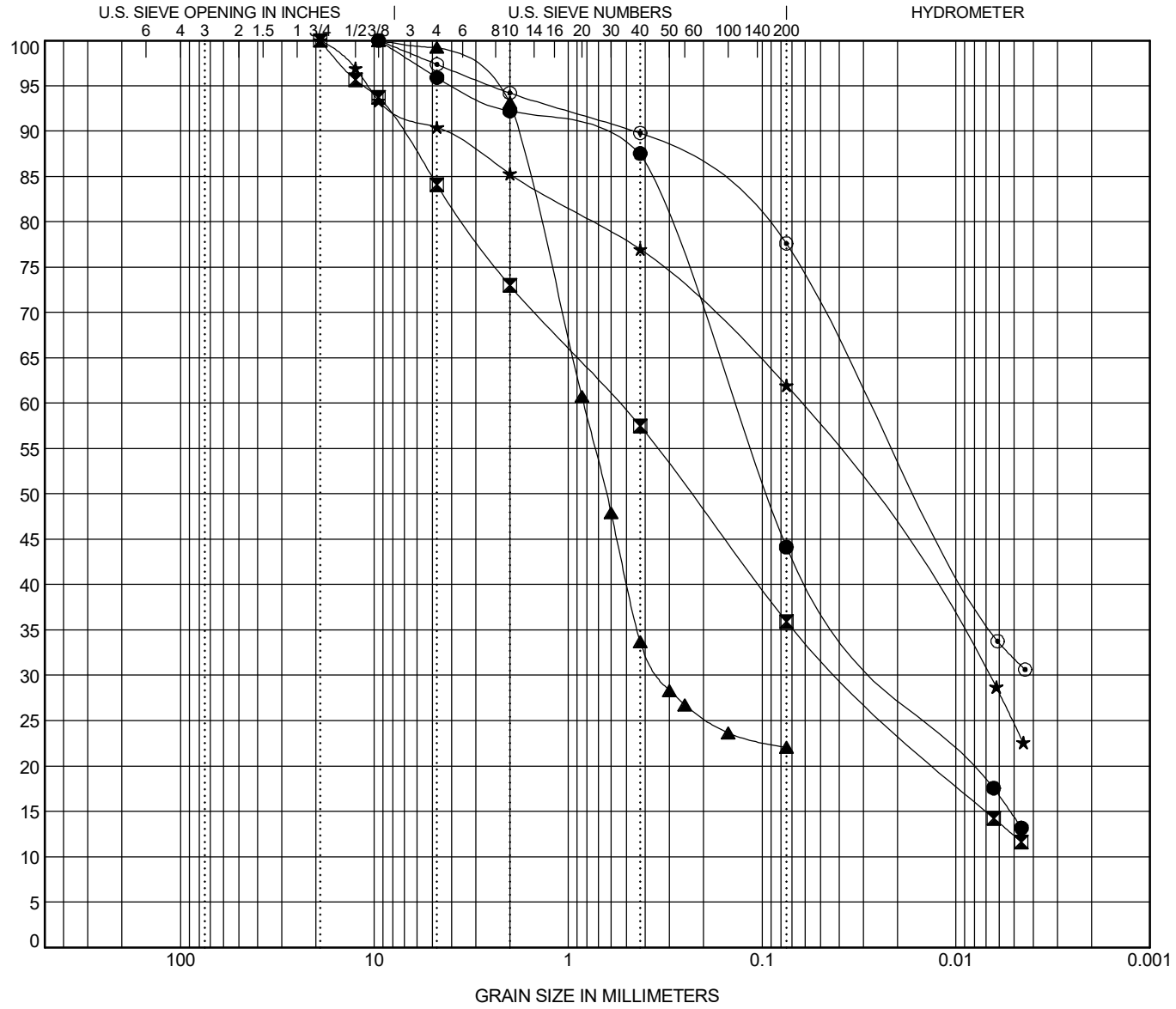
Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-009-1-19	11.0	**5.419**	**0.036**	**0.011**		**21**	**7**	**10**	**43**	**19**		
⊠	B-009-1-19	13.5	**2.737**	**0.036**	**0.013**		**13**	**9**	**13**	**51**	**14**		
▲	B-009-1-19	18.5	**12.39**	**0.085**	**0.015**		**26**	**12**	**13**	**31**	**18**		
★	B-009-1-19	23.5	**5.251**	**0.118**	**0.015**		**19**	**18**	**18**	**25**	**20**		
⊙	B-009-1-19	28.5	**0.359**	**0.191**	**0.156**		**1**	**6**	**83**	**10**		**1.54**	**2.83**

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-009-1-19	33.5	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
⊠	B-009-1-19	38.5	**A-4a ~ SILTY SAND with GRAVEL(SM)**	**19**	**16**	**3**
▲	B-009-2-19	1.0	**~**			
★	B-009-2-19	4.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**24**	**16**	**8**
⊙	B-009-2-19	5.5	**A-6a ~ LEAN CLAY with SAND(CL)**	**28**	**16**	**12**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-009-1-19	33.5	**0.96**	**0.095**	**0.02**		**8**	**5**	**43**	**30**	**14**		
⊠	B-009-1-19	38.5	**7.276**	**0.233**	**0.038**		**26**	**16**	**22**	**24**	**12**		
▲	B-009-2-19	1.0	**1.841**	**0.635**	**0.334**		**7**	**59**	**12**	**22**			
★	B-009-2-19	4.0	**4.416**	**0.031**	**0.007**		**15**	**8**	**15**	**37**	**25**		
⊙	B-009-2-19	5.5	**0.456**	**0.015**			**6**	**4**	**12**	**46**	**32**		

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GRAIN SIZE DISTRIBUTION

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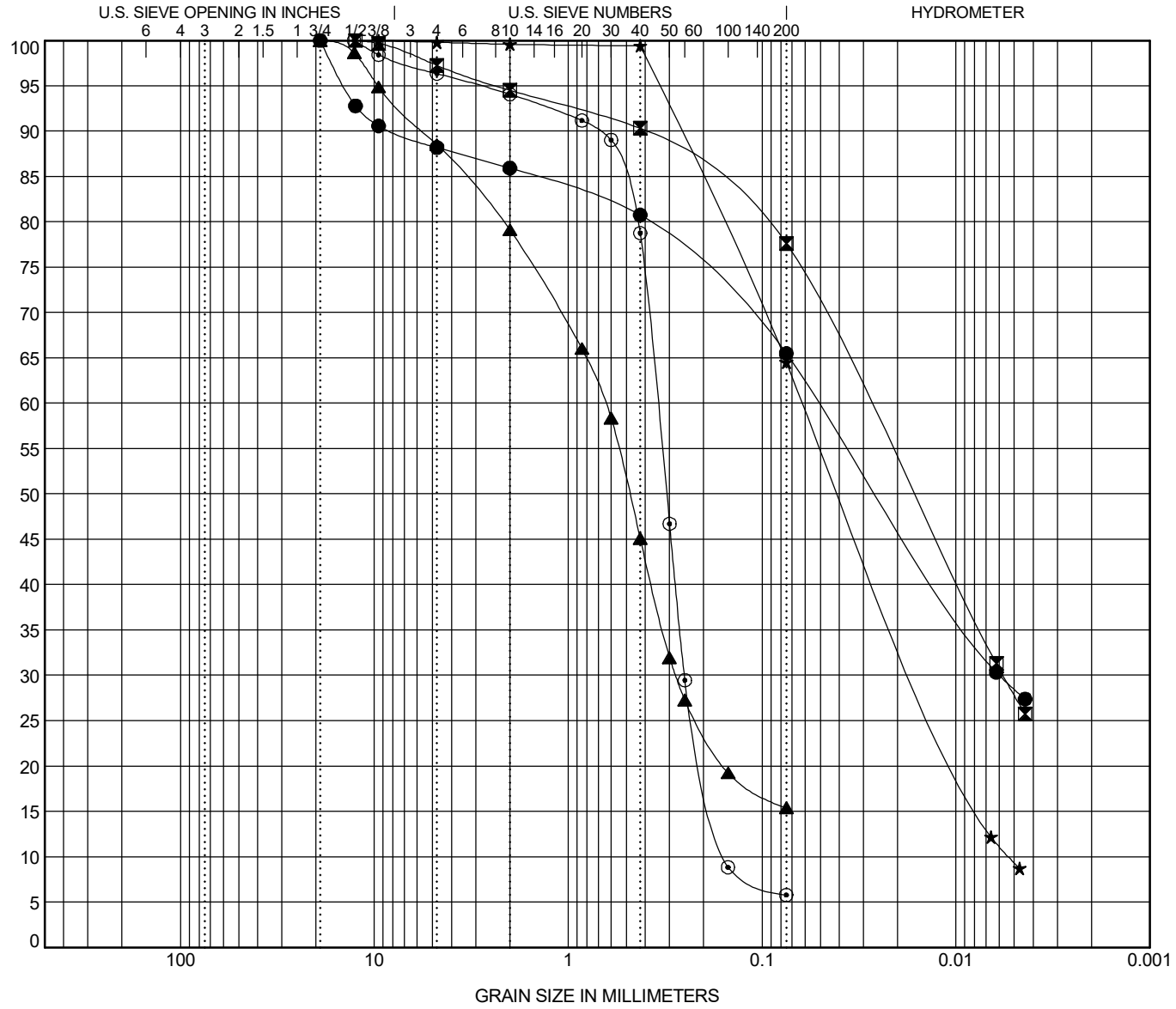

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

	Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-009-2-19	11.0	A-4a ~ SANDY LEAN CLAY(CL)	28	18	10
⊠	B-009-2-19	18.5	A-6a ~ LEAN CLAY with SAND(CL)	28	16	12
▲	B-009-2-19	28.5	~			
★	B-009-2-19	43.5	A-4b ~ SANDY SILT(ML)	NP	NP	NP
⊙	B-009-2-19	48.5	~			

	Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-009-2-19	11.0	8.034	0.025	0.006		15	5	15	37	28		
⊠	B-009-2-19	18.5	0.407	0.017	0.006		5	4	13	50	28		
▲	B-009-2-19	28.5	5.581	0.483	0.278		21	34	30	15			
★	B-009-2-19	43.5	0.266	0.038	0.015	0.005	0	0	35	56	9	0.70	11.39
⊙	B-009-2-19	48.5	0.703	0.311	0.251	0.154	6	15	73	6		1.18	2.24

GRAIN SIZE DISTRIBUTION

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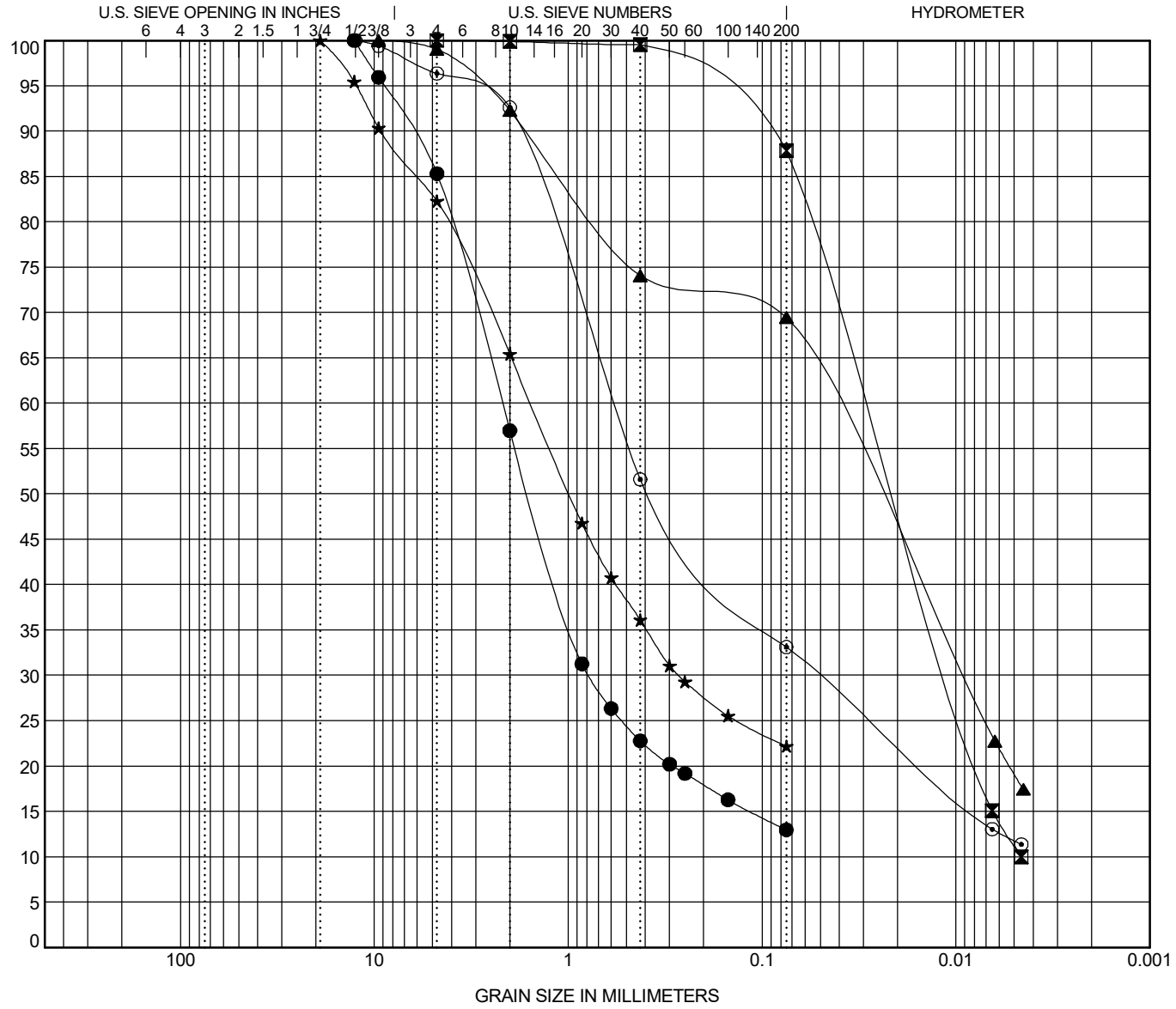

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

	Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-009-2-19	53.5	~			
⊠	B-009-2-19	63.5	A-4b ~ SILT(ML)	NP	NP	NP
▲	B-009-2-19	83.5	A-4b ~ SANDY SILTY CLAY(CL-ML)	23	19	4
★	B-014-1-19	1.5	~			
⊙	B-014-1-19	3.0	A-3a ~ SILTY, CLAYEY SAND(SC-SM)	19	13	6

	Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-009-2-19	53.5	6.448	1.586	0.778		43	34	10	13			
⊠	B-009-2-19	63.5	0.103	0.021	0.011	0.005	0	0	12	77	11	0.85	6.38
▲	B-009-2-19	83.5	1.648	0.027	0.009		8	18	5	50	19		
★	B-014-1-19	1.5	9.226	0.985	0.269		35	29	14	22			
⊙	B-014-1-19	3.0	1.811	0.366	0.051		8	41	18	21	12		

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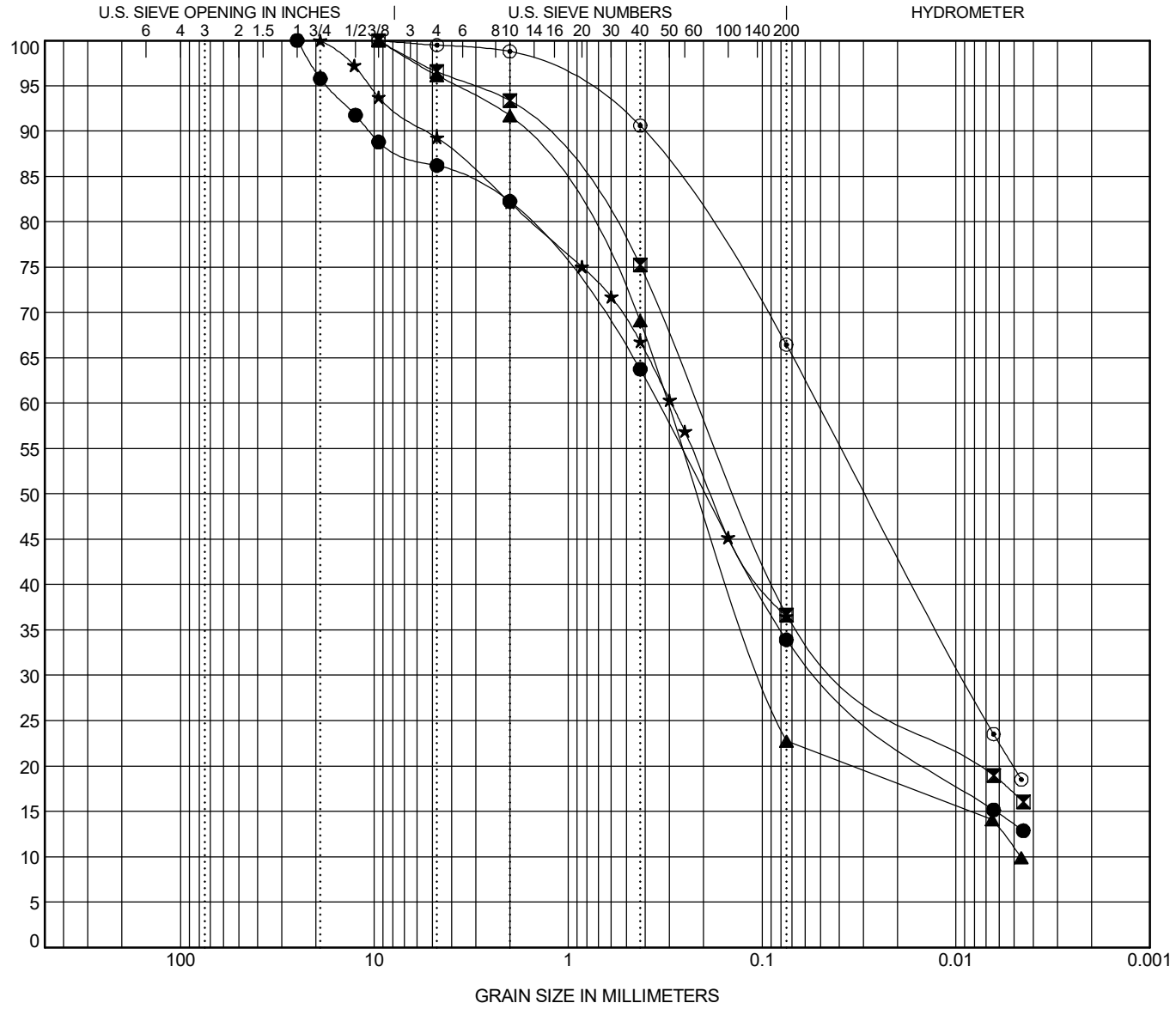

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-1-19	4.5	A-2-4 ~ SILTY, CLAYEY SAND(SC-SM)	19	14	5
⊠	B-014-1-19	6.0	A-4a ~ CLAYEY SAND(SC)	22	13	9
▲	B-014-1-19	8.5	A-3a ~ SILTY SAND(SM)	NP	NP	NP
★	B-014-1-19	16.0	~			
⊙	B-014-1-19	21.0	A-4a ~ SANDY SILT(ML)	36	31	5

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-1-19	4.5	10.616	0.191	0.045		17	19	30	20	14		
⊠	B-014-1-19	6.0	1.5	0.137	0.03		6	18	39	20	17		
▲	B-014-1-19	8.5	1.779	0.208	0.098	0.005	8	23	46	12	11	6.89	65.10
★	B-014-1-19	16.0	5.306	0.185			18	15	30	37			
⊙	B-014-1-19	21.0	0.407	0.029	0.009		2	8	24	46	20		

GRAIN SIZE DISTRIBUTION

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OFFICE OF GEOTECHNICAL ENGINEERING

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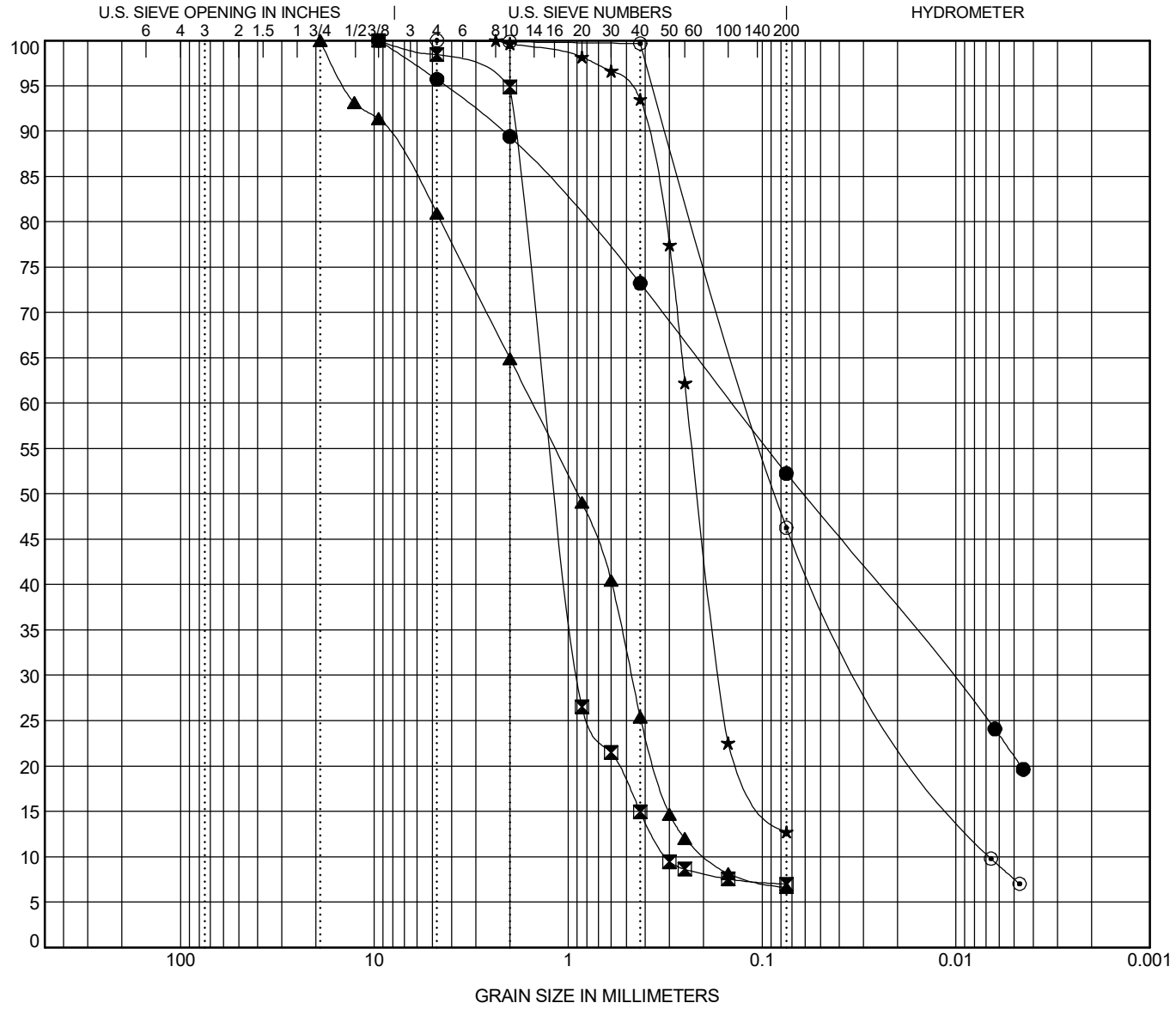

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-1-19	28.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**19**	**13**	**6**
⊠	B-014-1-19	33.5	~			
▲	B-014-1-19	38.5	~			
★	B-014-1-19	48.5	~			
⊙	B-014-1-19	58.5	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-1-19	28.5	**2.168**	**0.062**	**0.011**		**11**	**16**	**21**	**31**	**21**		
⊠	B-014-1-19	33.5	**1.882**	**1.14**	**0.888**	**0.311**	**5**	**80**	**8**	**7**		**1.96**	**4.16**
▲	B-014-1-19	38.5	**8.666**	**0.894**	**0.472**	**0.192**	**34**	**40**	**19**	**7**		**0.76**	**8.00**
★	B-014-1-19	48.5	**0.394**	**0.214**	**0.165**		**0**	**6**	**81**	**13**			
⊙	B-014-1-19	58.5	**0.311**	**0.085**	**0.025**	**0.007**	**1**	**0**	**53**	**38**	**8**	**0.82**	**17.50**

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GRAIN SIZE DISTRIBUTION

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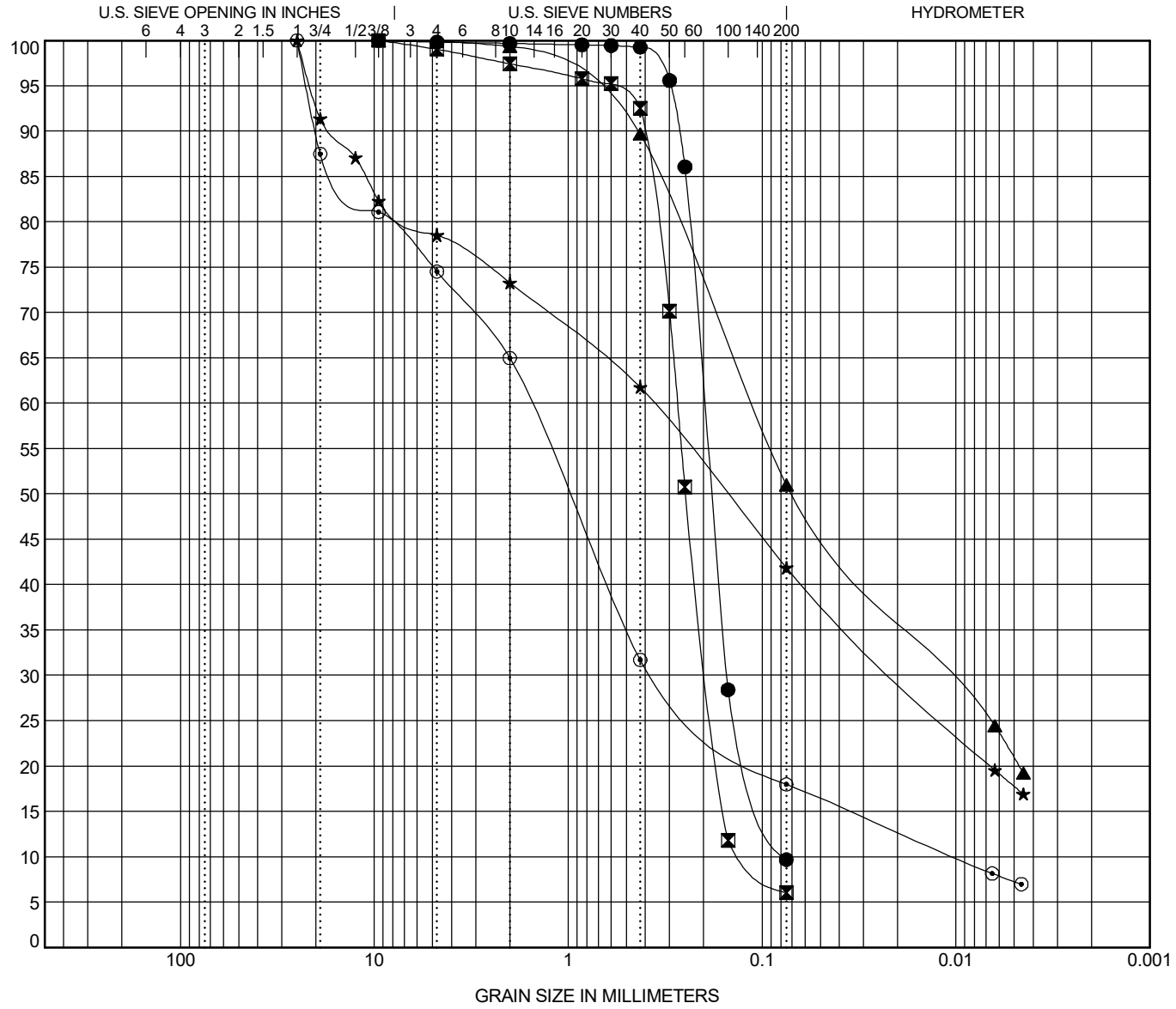

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-1-19	73.5	~			
⊠	B-014-1-19	88.5	~			
▲	B-014-2-19	1.0	A-4a ~ SANDY SILT(ML)	31	24	7
★	B-014-2-19	3.5	A-4a ~ SILTY, CLAYEY SAND with GRAVEL(SC-SM)	23	17	6
⊙	B-014-2-19	6.0	A-1-b ~ SILTY SAND with GRAVEL(SM)	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-1-19	73.5	0.27	0.182	0.152	0.076	0	0	90	10		1.54	2.61
⊠	B-014-1-19	88.5	0.409	0.248	0.19	0.121	2	5	87	6		1.10	2.25
▲	B-014-2-19	1.0	0.447	0.069	0.011		0	10	39	30	21		
★	B-014-2-19	3.5	16.626	0.152	0.02		26	12	20	24	18		
⊙	B-014-2-19	6.0	20.075	0.996	0.343	0.01	35	33	14	11	7	7.18	153.53

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GRAIN SIZE DISTRIBUTION

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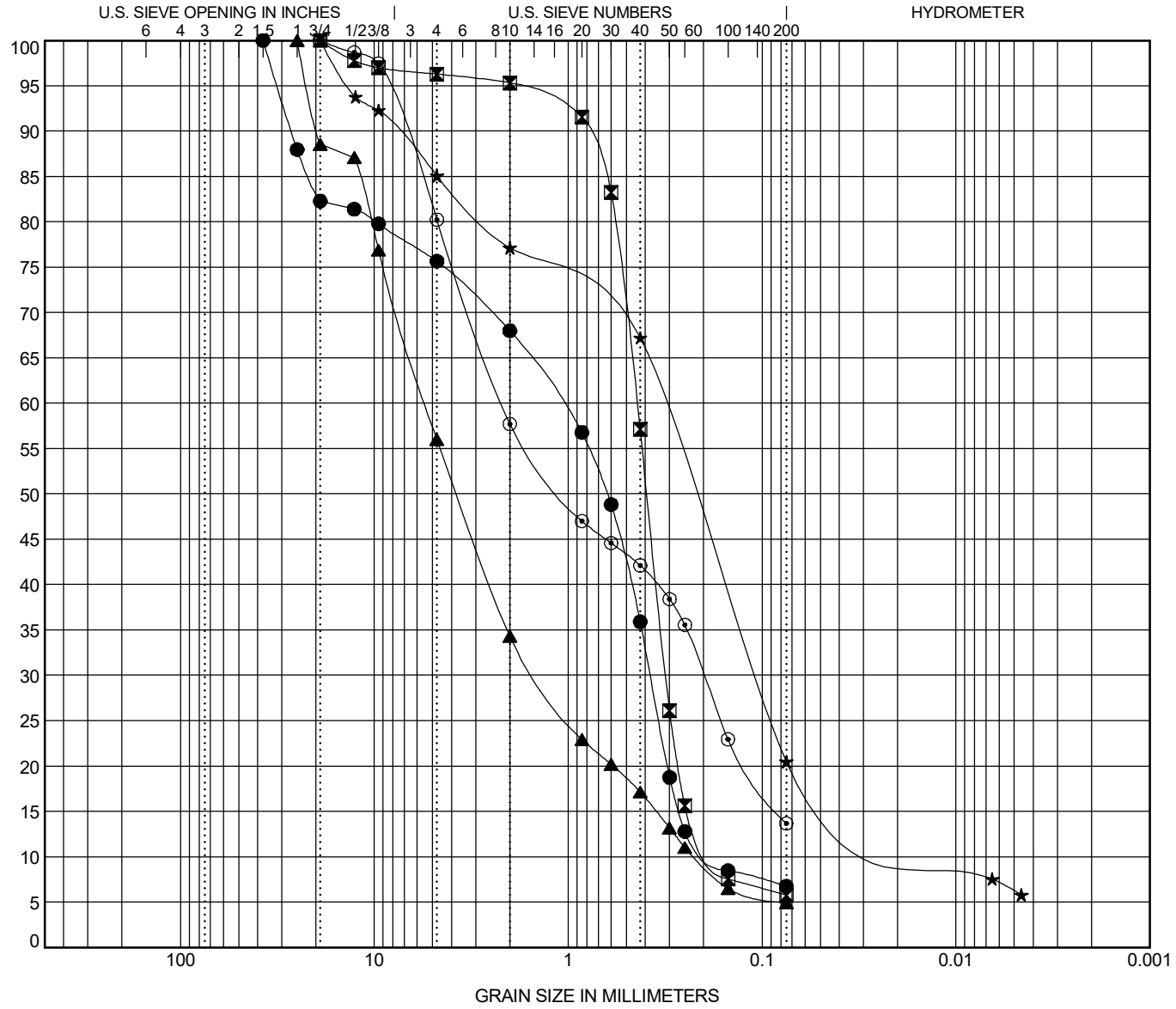

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-2-19	8.5	~			
⊠	B-014-2-19	11.0	~			
▲	B-014-2-19	18.5	**~ WELL-GRADED SAND with GRAVEL(SW)**			
★	B-014-2-19	21.0	**A-3a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
⊙	B-014-2-19	23.5	~			

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-2-19	8.5	26.774	0.632	0.377	0.18	32	32	29	7		0.73	6.03
⊠	B-014-2-19	11.0	0.796	0.392	0.314	0.176	5	38	51	6		1.27	2.52
▲	B-014-2-19	18.5	19.669	3.741	1.449	0.223	66	17	12	5		1.73	24.31
★	B-014-2-19	21.0	7.621	0.224	0.107	0.01	23	10	47	14	6	3.38	31.34
⊙	B-014-2-19	23.5	7.036	1.08	0.2		42	16	28	14			

GRAIN SIZE DISTRIBUTION

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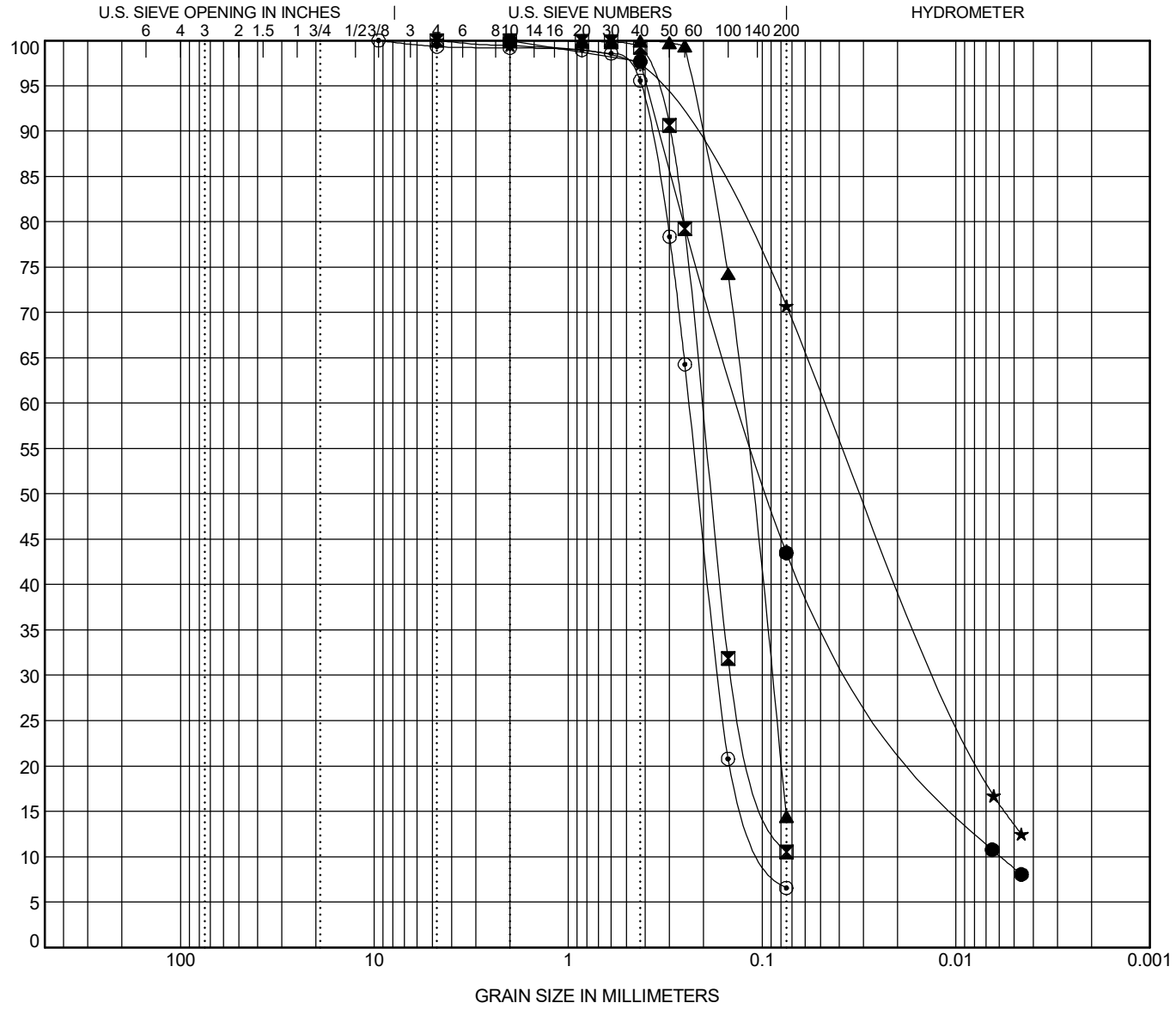

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-2-19	28.5	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
⊠	B-014-2-19	38.5	~			
▲	B-014-2-19	53.5	~			
★	B-014-2-19	78.5	**A-4b ~ SILT with SAND(ML)**	**NP**	**NP**	**NP**
⊙	B-014-2-19	98.5	~			

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-2-19	28.5	0.332	0.092	0.027	0.006	0	3	54	34	9	1.00	21.54
⊠	B-014-2-19	38.5	0.297	0.182	0.141		0	0	89	11		1.33	2.76
▲	B-014-2-19	53.5	0.207	0.113	0.09		0	0	86	14			
★	B-014-2-19	78.5	0.262	0.029	0.012		0	2	27	57	14		
⊙	B-014-2-19	98.5	0.38	0.211	0.167	0.089	0	4	89	7		1.32	2.68

GRAIN SIZE DISTRIBUTION

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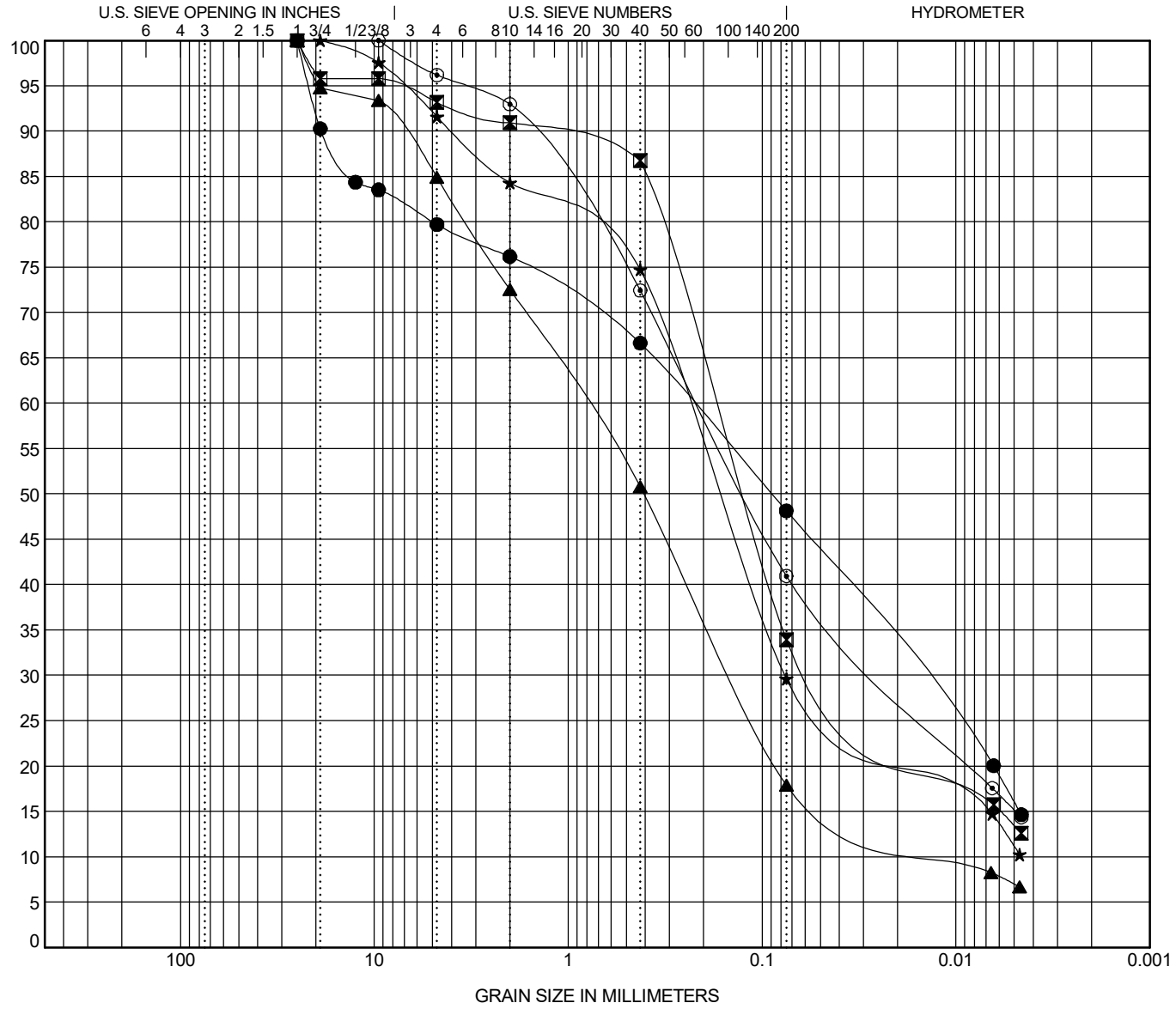

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-3-19	1.5	A-4a ~ SILTY, CLAYEY SAND with GRAVEL(SC-SM)	20	14	6
⊠	B-014-3-19	3.0	A-3a ~ SILTY SAND(SM)	NP	NP	NP
▲	B-014-3-19	4.5	A-3a ~ SILTY SAND with GRAVEL(SM)	NP	NP	NP
★	B-014-3-19	6.0	A-3a ~ SILTY SAND(SM)	NP	NP	NP
⊙	B-014-3-19	16.0	A-4a ~ SILTY SAND(SM)	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-3-19	1.5	18.644	0.089	0.015		24	10	18	32	16		
⊠	B-014-3-19	3.0	1.411	0.127	0.044		9	4	53	21	13		
▲	B-014-3-19	4.5	7.206	0.407	0.142	0.01	27	22	33	11	7	2.40	79.63
★	B-014-3-19	6.0	3.929	0.164	0.076		15	10	45	19	11		
⊙	B-014-3-19	16.0	1.599	0.123	0.024		7	21	31	26	15		

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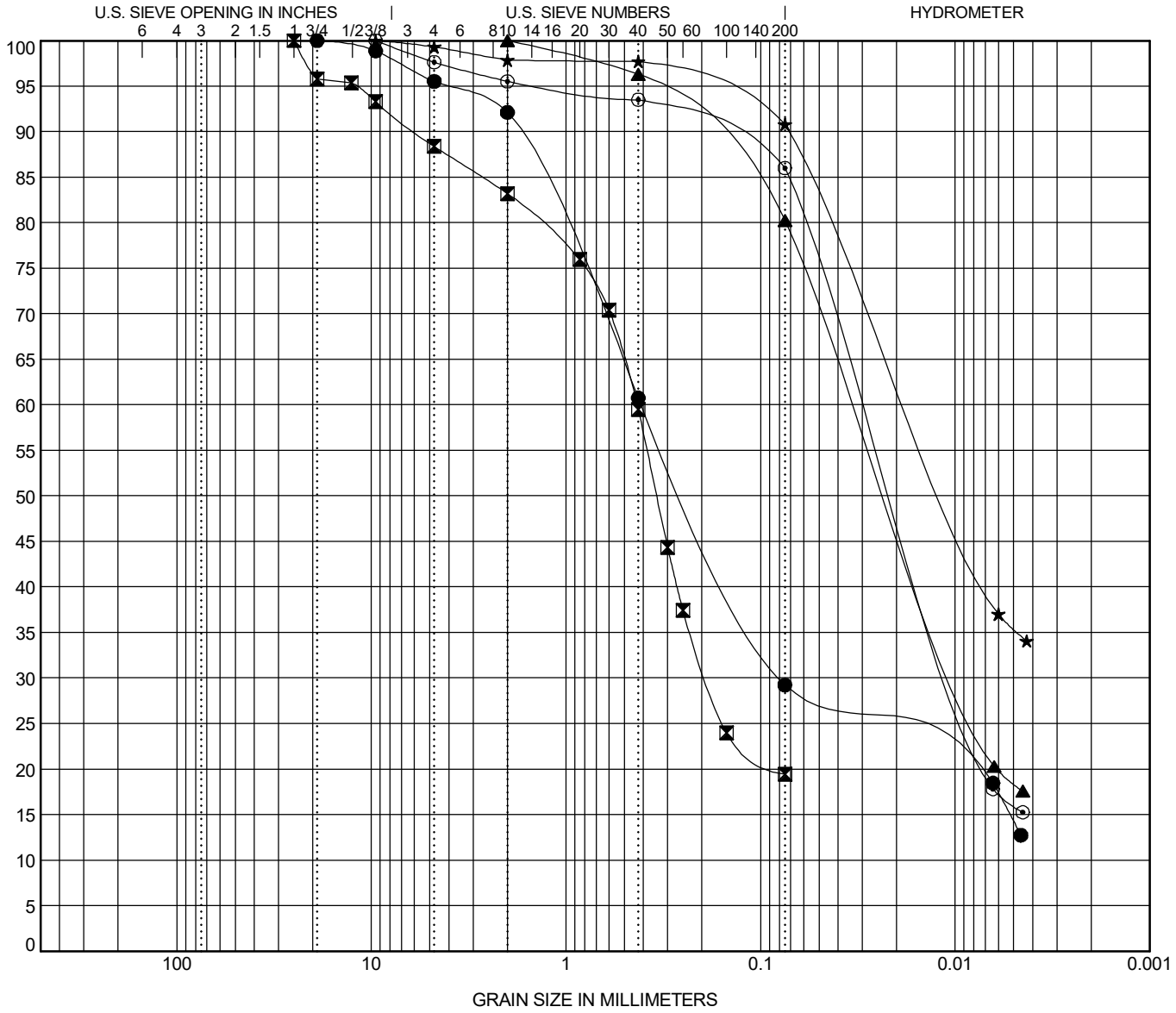

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

	Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-3-19	23.5	A-3a ~ SILTY, CLAYEY SAND(SC-SM)	18	12	6
⊠	B-014-3-19	28.5	~			
▲	B-014-3-19	48.5	A-4b ~ SILT with SAND(ML)	20	18	2
★	B-014-3-19	63.5	A-4b ~ LEAN CLAY(CL)	23	15	8
⊙	B-014-3-19	73.5	A-4b ~ SILTY CLAY(CL-ML)	19	15	4

	Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-3-19	23.5	1.801	0.235	0.078		8	31	32	15	14		
⊠	B-014-3-19	28.5	5.973	0.342	0.189		17	24	40	19			
▲	B-014-3-19	48.5	0.215	0.022	0.009		0	4	16	62	18		
★	B-014-3-19	63.5	0.072	0.011			2	0	7	56	35		
⊙	B-014-3-19	73.5	0.189	0.02	0.01		4	2	8	70	16		

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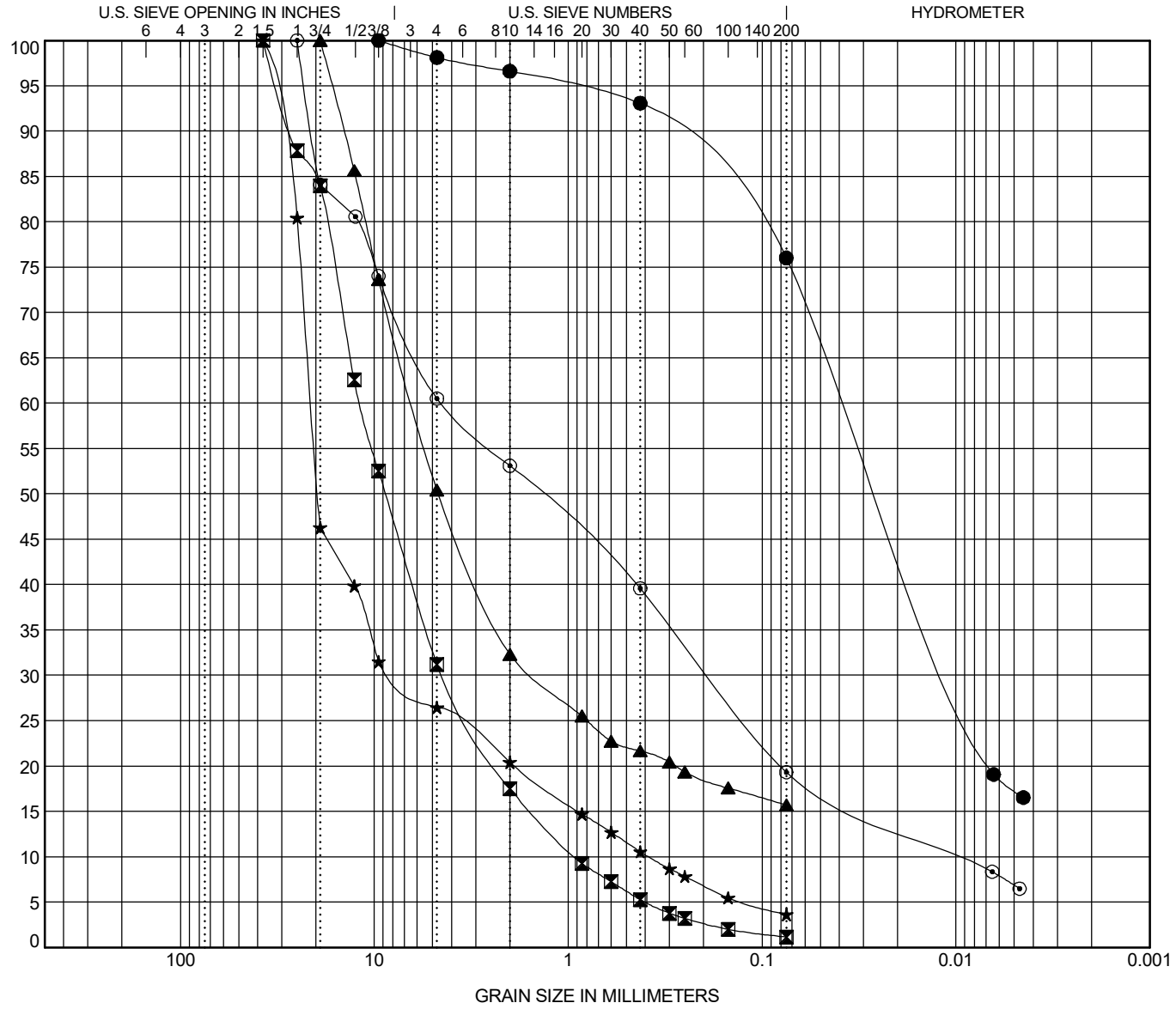


COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-3-19	88.5	A-4b ~ SILTY CLAY with SAND(CL-ML)	21	16	5
⊠	B-014-4-19	1.0	~ WELL-GRADED GRAVEL with SAND(GW)			
▲	B-014-4-19	2.5	~			
★	B-014-4-19	4.0	~ POORLY GRADED GRAVEL with SAND(GP)			
⊙	B-014-4-19	5.5	A-1-b ~ SILTY, CLAYEY SAND with GRAVEL(SC-SM)	20	16	4

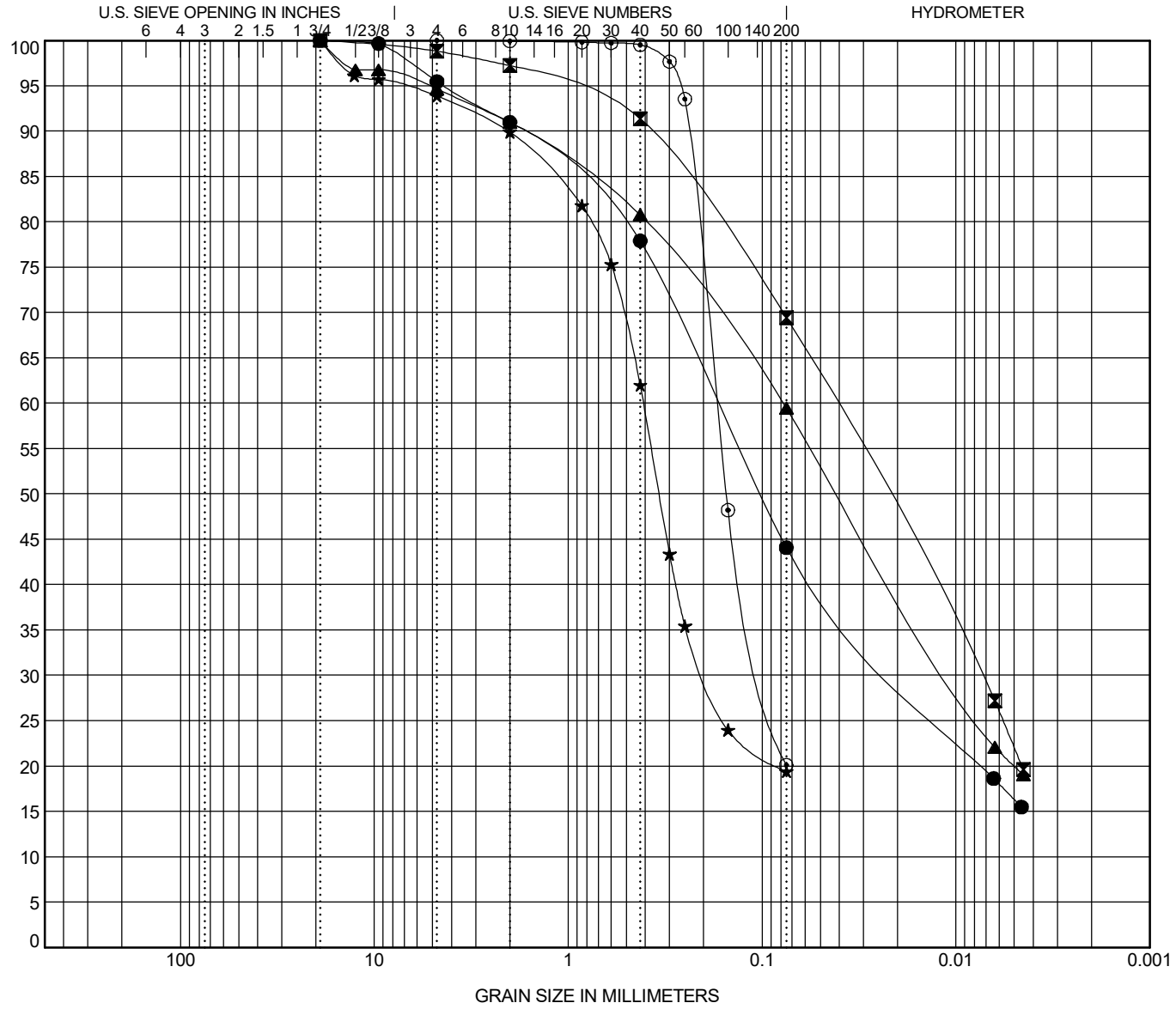
Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-3-19	88.5	0.311	0.024	0.01		3	4	17	59	17		
⊠	B-014-4-19	1.0	26.876	8.761	4.41	0.918	83	12	4	1		1.80	12.85
▲	B-014-4-19	2.5	14.345	4.659	1.496		67	11	6	16			
★	B-014-4-19	4.0	30.479	19.576	7.743	0.384	79	10	7	4		7.35	55.20
⊙	B-014-4-19	5.5	21.042	1.401	0.187	0.009	47	14	20	12	7	0.83	474.81

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

	Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-4-19	8.5	**A-4a ~ SILTY, CLAYEY SAND(SC-SM)**	**18**	**14**	**4**
⊠	B-014-4-19	13.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**22**	**15**	**7**
▲	B-014-4-19	18.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**25**	**18**	**7**
★	B-014-4-19	23.5	~			
⊙	B-014-4-19	43.5	~			

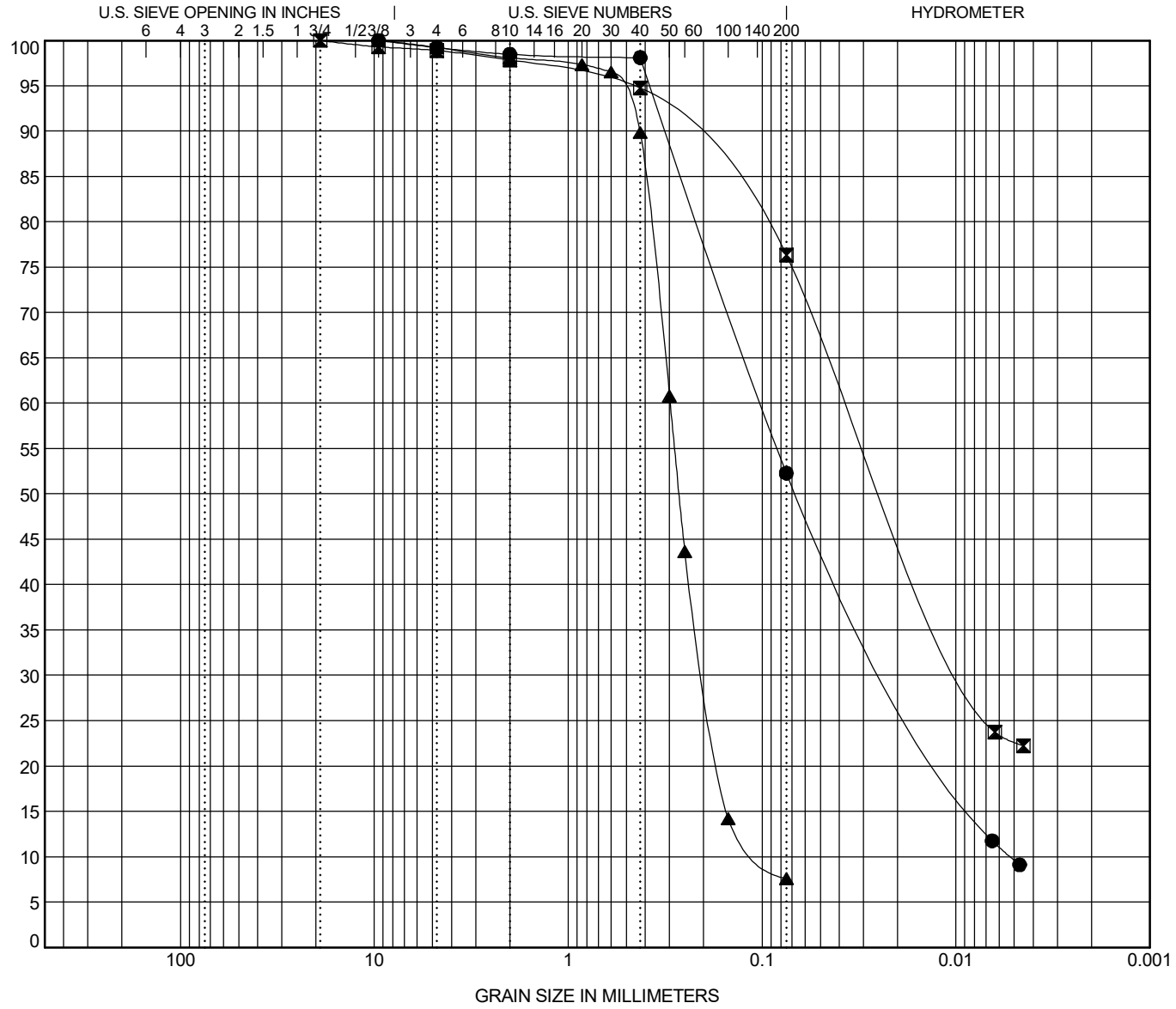
	Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-4-19	8.5	**1.781**	**0.102**	**0.019**		**9**	**13**	**34**	**28**	**16**		
⊠	B-014-4-19	13.5	**0.381**	**0.024**	**0.007**		**3**	**6**	**22**	**47**	**22**		
▲	B-014-4-19	18.5	**1.724**	**0.04**	**0.011**		**10**	**10**	**21**	**39**	**20**		
★	B-014-4-19	23.5	**2.039**	**0.34**	**0.196**		**10**	**28**	**43**	**19**			
⊙	B-014-4-19	43.5	**0.24**	**0.153**	**0.096**		**1**	**0**	**79**	**20**			

GRAIN SIZE DISTRIBUTION

OHIO DEPARTMENT OF TRANSPORTION
OFFICE OF GEOTECHNICAL ENGINEERING

PROJECT INTERSTATE 76/77 **PID** 102329

OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

	Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	B-014-4-19	53.5	**A-4a ~ SANDY SILT(ML)**	**NP**	**NP**	**NP**
⊠	B-014-4-19	68.5	**A-4b ~ SILTY CLAY with SAND(CL-ML)**	**18**	**14**	**4**
▲	B-014-4-19	88.5	**~**			

	Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B-014-4-19	53.5	**0.313**	**0.065**	**0.02**	**0.005**	**2**	**0**	**46**	**42**	**10**	**0.73**	**19.13**
⊠	B-014-4-19	68.5	**0.271**	**0.022**	**0.008**		**3**	**3**	**18**	**53**	**23**		
▲	B-014-4-19	88.5	**0.428**	**0.268**	**0.197**	**0.097**	**2**	**8**	**82**	**8**		**1.35**	**3.08**

GRAIN SIZE - OH DOT.GDT - 5/8/20 11:27 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON.GPJ

SULFATE TEST DATA

DLZ

Sulfate Content Report

PROJECT NAME I-76/77 PROJECT NO. 1822-1016.00 SHEET 1 OF 1

CLIENT E.L. Robinson PROCEDURE Supplement 1122 COMP. BY PB DATE 5/11/2020

Boring No.	Sample No.	Depth	Initial Can No.	Can No. / Weight	Can No. / Weight	Bottle No.	Beaker No.	Readings w/Dilution of 1/20			Average (ppm)	Actual (ppm) (Avg x 20)
								1	2	3		
B-014-0-20	S-1	1.5'-3.0'			10 / 15g	10	1005	4	5	5	5	<100
B-015-0-20	S-2	2.5'-4.0'			14 / 20g	11	1007	1	1	1	1	<100
B-016-0-20	S-2	2.5'-4.0'			61 / 20g	12	1008	3	3	3	3	<100
B-017-0-20	S-1	1.5'-3.0'			94 / 10g	13	1009	9	9	10	9	190
B-018-0-20	S-2	2.5'-3.4'		104 / 20g	101 / 20g	14	1010	10	10	10	10	200
B-019-0-20	S-3	4.5'6.0'			119 / 15g	15	1013	3	3	3	3	<100
B-020-0-20	S-4	5.52'-7.0'			121 / 20g	16	1019	32	32	32	32	640

Remarks

GB-1 SUBGRADE ANALYSIS TAB

"GB1 Subgrade Analysis Tab, PID 102329, INTERSTATE 76/77, OGE Number SUM-076/077-08.42/09.74"

EXPLOR. ID	STATION	OFFSET	DIR	SAMPLE ID	SAMPLE FROM	SAMPLE TO	SUBGRADE FROM	SUBGRADE TO	N60	N60L	tsf HP	LL	PL	PI	% SILT	% CLAY	P 200	% WC	MOPT	ODOT CLASS	GI	ppm SO4
B-004-0-18	248+33	4	Rt	SS-1	01.00	02.50			19			NP	NP					11		A-1-b		-
B-004-0-18	248+33	4	Rt	SS-2	02.50	04.00			22			26	17		43	25		9		A-4a		-
B-004-0-18	248+33	4	Rt	SS-3	04.00	05.50			30		4.50							7		A-4a		-
B-004-0-18	248+33	4	Rt	4A	05.50	06.00			160		4.50							8		A-4a		-
B-004-0-18	248+33	4	Rt	4B	06.00	07.00														Rock		-
B-007-0-18	256+22	17	Rt	SS-1	01.00	02.50			19			29	19		26	14		7		A-4a		-
B-007-0-18	256+22	17	Rt	SS-2	02.50	04.00			19			25	16		42	26		16		A-4a		-
B-007-0-18	256+22	17	Rt	SS-3	04.00	05.50			7		2.50							14		A-4a		-
B-007-0-18	256+22	17	Rt	SS-4	05.50	07.00			4		3.75							10		A-6b		-
B-009-1-19				SS-1	01.00	02.50			6									13				-
B-009-1-19				SS-2	02.50	04.00			6			24	18		43	18		13		A-4a		-
B-009-1-19				SS-3	04.00	05.50			6			22	15		36	19		12		A-4a		-
B-009-1-19				SS-4	05.50	07.00			7			25	16		41	19		11		A-4a		-
B-009-1-19				SS-5	08.50	10.00			4			22	15		33	20		12		A-4a		-
B-009-1-19				SS-6	11.00	12.50			14			26	18		43	19		12		A-4a		-
B-009-1-19				SS-7	13.50	15.00			8			29	18		51	14		13		A-6a		-
B-009-1-19				SS-8	16.00	17.50			8									11		A-4a		-
B-009-1-19				SS-9	18.50	20.00			6			25	18		31	18		13		A-4a		-
B-009-1-19				SS-10	21.00	22.50			10									15		A-4a		-
B-009-1-19				SS-11	23.50	25.00			38			NP	NP		25	20		10		A-4a		-
B-009-1-19				SS-12	28.50	30.00			20									4		A-3		-
B-009-1-19				SS-13	33.50	35.00			28			NP	NP		30	14		14		A-4a		-
B-009-1-19				SS-14	38.50	40.00			31			19	16		24	12		10		A-4a		-
B-009-1-19				SS-15	43.50	45.00			10									19		A-4a		-
B-009-1-19				SS-16	48.50	48.67			50/2"									14		Rock		-
B-009-1-19				NQ2-1	50.00	53.00																
B-009-1-19				NQ2-2	53.00	58.00																
B-009-1-19				NQ2-3	58.00	60.00																
B-009-2-19				SS-1	01.00	02.50			8									10		A-3a		-
B-009-2-19				SS-2	02.50	04.00			95									15		A-4a		-
B-009-2-19				SS-3	04.00	05.50			17			24	16		37	25		12		A-4a		-
B-009-2-19				SS-4	05.50	07.00			11			28	16		46	32		15		A-6a		-
B-009-2-19				SS-5	08.50	10.00			11									20		A-6a		-
B-009-2-19				SS-6	11.00	12.50			11			28	18		37	28		17		A-4a		-
B-009-2-19				SS-7	13.50	15.00			8									11		A-4b		-
B-009-2-19				SS-8	16.00	17.50			17									12		A-4b		-
B-009-2-19				SS-9	18.50	20.00			24			28	16		50	28		15		A-6a		-
B-009-2-19				SS-10	21.00	22.50			18									15		A-6a		-
B-009-2-19				SS-11	23.50	25.00			14									14		A-6a		-
B-009-2-19				SS-12	28.50	30.00			17									7		A-3a		-
B-009-2-19				SS-13	33.50	35.00			6									5		A-3a		-
B-009-2-19				SS-14	38.50	40.00			14									7		A-3a		-
B-009-2-19				SS-15	43.50	45.00			29			NP	NP		56	9		20		A-4b		-
B-009-2-19				SS-16	48.50	50.00			22									19		A-3		-
B-009-2-19				SS-17	53.50	55.00			49									10		A-1-b		-
B-009-2-19				SS-18	58.50	60.00			40									21		A-4b		-
B-009-2-19				SS-19	63.50	65.00			33			NP	NP		77	11		21		A-4b		-
B-009-2-19				SS-20	68.50	70.00			20									25		A-4b		-
B-009-2-19				SS-21	73.50	75.00			8									27		A-4b		-
B-009-2-19				SS-22	78.50	80.00			4									21		A-4b		-
B-009-2-19				SS-23	83.50	85.00			11			23	19		50	19		22		A-4b		-
B-009-2-19				SS-24	88.50	90.00			24									19		A-4b		-
B-009-2-19				SS-25	93.50	93.92			50/5"									9		A-4b		-
B-009-2-19				SS-26	98.50	98.92			50/5"									9		A-4b		-
B-010-0-18	269+92	7	Lt	SS-1	01.10	02.50						25	16		44	26		14		A-4a		-
B-010-0-18	269+92	7	Lt	SS-2	02.50	04.00			91			32	21		30	13		12		A-6a		-
B-010-0-18	269+92	7	Lt	SS-3	04.00	05.50			30		4.50							14		A-6a		-
B-010-0-18	269+92	7	Lt	SS-4	05.50	07.00			12									15		A-6a		-
B-011-0-18	275+06	14	Rt	SS-1	01.30	02.50						27	19		56	26		13		A-4b		-
B-011-0-18	275+06	14	Rt	SS-2	02.50	04.00			19			26	16		42	31		13		A-4a		-
B-011-0-18	275+06	14	Rt	SS-3	04.00	05.50			26		3.00							15		A-4a		-
B-011-0-18	275+06	14	Rt	SS-4	05.50	07.00			30		4.50							14		A-4a		-
B-011-0-18	275+06	14	Rt	SS-5	07.00	08.50			28									13		A-4a		-
B-012-0-18	279+19	55	Lt	SS-1	01.00	02.50			20			NP	NP					5		A-1-a		-
B-012-0-18	279+19	55	Lt	SS-2	02.50	04.00			12			20	16		22	14		11		A-4a		-
B-012-0-18	279+19	55	Lt	SS-3	04.00	05.50			19		4.50							13		A-6a		-
B-012-0-18	279+19	55	Lt	SS-4	05.50	07.00			18		3.75							12		A-6a		-
B-012-0-18	279+19	55	Lt	SS-5	07.00	08.50			22		3.00							12		A-6a		-
B-013-0-18	283+15	55	Rt	SS-1	01.00	02.50			22			20	15		32	19		9		A-4a		-
B-013-0-18	283+15	55	Rt	SS-2	02.50	04.00			32		4.00	25	17		48	24		12		A-4a		-
B-013-0-18	283+15	55	Rt	SS-3	04.00	05.50			28									11		A-4a		-
B-013-0-18	283+15	55	Rt	SS-4	05.50	07.00			28		4.50							10		A-4a		-
B-013-0-18	283+15	55	Rt	SS-5	07.00	08.50			22		4.50							11		A-4a		-
B-014-0-20				SS-1	01.50	03.00			9			NP	NP		13	10		11		A-3a		-
B-014-0-20				SS-2	03.00	04.50			4			NP	NP		28	13		14		A-4a		-
B-014-0-20				SS-3	04.50	06.00			25		2.25	18	13		45	11		11		A-4a		-
B-014-0-20				SS-4	06.00	07.50			17		4.50							12		A-4a		-
B-014-1-19				SS-1	01.50	03.00			7									8		A-1-b		-
B-014-1-19				SS-2	03.00	04.50			6			19	13		21	12		15		A-3a		-
B-014-1-19				SS-3	04.50	06.00			32			19	14		20	14		14		A-2-4		-
B-014-1-19				SS-4	06.00	07.50			15			22	13		20	17		15		A-4a		-
B-014-1-19				SS-5	08.50	10.00			25			NP	NP		12	11		10		A-3a		-

"GB1 Subgrade Analysis Tab, PID 102329, INTERSTATE 76/77, OGE Number SUM-076/077-08.42/09.74"

EXPLOR. ID	STATION	OFFSET	DIR	SAMPLE ID	SAMPLE FROM	SAMPLE TO	SUBGRADE FROM	SUBGRADE TO	N60	N60L	tsf HP	LL	PL	PI	% SILT	% CLAY	P 200	% WC	MOPT	ODOT CLASS	GI	ppm SO4
B-014-1-19				SS-6	11.00	12.50			10									13		A-4a		-
B-014-1-19				SS-7	13.50	15.00			13											A-4a		-
B-014-1-19				SS-8	16.00	17.50			8									15		A-4a		-
B-014-1-19				SS-9	18.50	20.00			24									10		A-4a		-
B-014-1-19				SS-10	21.00	22.50			14			36	31		46	20		32		A-4a		-
B-014-1-19				SS-11	23.50	25.00			29									13		A-4b		-
B-014-1-19				SS-12	28.50	30.00			27			19	13		31	21		11		A-4a		-
B-014-1-19				SS-13	33.50	35.00			31									23		A-3a		-
B-014-1-19				SS-14	38.50	40.00			24									14		A-3a		-
B-014-1-19				SS-15	43.50	45.00			14									21		A-3a		-
B-014-1-19				SS-16	48.50	50.00			43									19		A-3a		-
B-014-1-19				SS-17	53.50	55.00			39									20		A-3a		-
B-014-1-19				SS-18	58.50	60.00			42			NP	NP		38	8		18		A-4a		-
B-014-1-19				SS-19	63.50	65.00			47									21		A-3		-
B-014-1-19				SS-20	68.50	70.00			54									20		A-3		-
B-014-1-19				SS-21	73.50	75.00			57									21		A-3		-
B-014-1-19				SS-22	78.50	80.00			31									21		A-3		-
B-014-1-19				SS-23	83.50	85.00			27									22		A-3		-
B-014-1-19				SS-24	88.50	90.00			52									21		A-3		-
B-014-1-19				SS-25	93.50	95.00			52									20		A-3		-
B-014-1-19				SS-26	98.50	100.00			82									17		A-3		-
B-014-2-19				SS-1	01.00	02.50			7			31	24		30	21		23		A-4a		-
B-014-2-19				SS-2	03.50	05.00			9			23	17		24	18		15		A-4a		-
B-014-2-19				SS-3	06.00	07.50			20			NP	NP		11	7		7		A-1-b		-
B-014-2-19				SS-4	08.50	10.00			10									5		A-1-b		-
B-014-2-19				SS-5	11.00	12.50			10									5		A-3		-
B-014-2-19				SS-6	13.50	15.00			20									4		A-3		-
B-014-2-19				SS-7	16.00	17.50			15									11		A-3		-
B-014-2-19				SS-8	18.50	20.00			6									11		A-1-a		-
B-014-2-19				SS-9	21.00	22.50			28			NP	NP		14	6		14		A-3a		-
B-014-2-19				SS-10	23.50	25.00			22									12		A-1-b		-
B-014-2-19				SS-11	28.50	30.00			30			NP	NP		34	9		17		A-4a		-
B-014-2-19				SS-12	33.50	35.00			28									19		A-3a		-
B-014-2-19				SS-13	38.50	40.00			28									21		A-3a		-
B-014-2-19				SS-14	43.50	45.00			36									19		A-3a		-
B-014-2-19				SS-15	48.50	50.00			48									22		A-3a		-
B-014-2-19				SS-16	53.50	55.00			46									24		A-3a		-
B-014-2-19				SS-17	58.50	60.00			42									25		A-3a		-
B-014-2-19				SS-18	63.50	65.00			36									23		A-3a		-
B-014-2-19				SS-19	68.50	70.00			39											A-3a		-
B-014-2-19				SS-20	73.50	75.00			38									23		A-3a		-
B-014-2-19				SS-21	78.50	80.00			60			NP	NP		57	14		16		A-4b		-
B-014-2-19				SS-22	83.50	85.00			75									16		A-4b		-
B-014-2-19				SS-23	88.50	90.00			55									19		A-3		-
B-014-2-19				SS-24	93.50	95.00			49									21		A-3		-
B-014-2-19				SS-25	98.50	100.00			58									19		A-3		-
B-014-3-19				SS-1	01.50	03.00			20			20	14		32	16		9		A-4a		-
B-014-3-19				SS-2	03.00	04.50			29			NP	NP		21	13		10		A-3a		-
B-014-3-19				SS-3	04.50	06.00			11			NP	NP		11	7		8		A-3a		-
B-014-3-19				SS-4	06.00	07.50			6			NP	NP		19	11		10		A-3a		-
B-014-3-19				SS-5	08.50	10.00			8									14		A-3a		-
B-014-3-19				SS-6	11.00	12.50			32									7		A-3a		-
B-014-3-19				SS-7	13.50	15.00			14									13		A-3a		-
B-014-3-19				SS-8	16.00	17.50			18			NP	NP		26	15		20		A-4a		-
B-014-3-19				SS-9	18.50	20.00			17									27		A-4a		-
B-014-3-19				SS-10	21.00	22.50			11									16		A-4b		-
B-014-3-19				SS-11	23.50	25.00			13			18	12		15	14		12		A-3a		-
B-014-3-19				SS-12	28.50	30.00			4									11		A-3a		-
B-014-3-19				SS-13	33.50	35.00			8											UCF		-
B-014-3-19				SS-14	38.50	40.00			25									19		A-4b		-
B-014-3-19				SS-15	43.50	45.00			22									18		A-4b		-
B-014-3-19				SS-16	48.50	50.00			17			20	18		62	18		26		A-4b		-
B-014-3-19				SS-17	53.50	55.00			10									23		A-4b		-
B-014-3-19				SS-18	58.50	60.00			8									28		A-4b		-
B-014-3-19				SS-19	63.50	65.00			11			23	15		56	35		17		A-4b		-
B-014-3-19				SS-20	68.50	70.00			15									18		A-4b		-
B-014-3-19				SS-21	73.50	75.00			15			19	15		70	16		19		A-4b		-
B-014-3-19				SS-22	78.50	80.00			29									15		A-4b		-
B-014-3-19				SS-23	83.50	85.00			6									17		A-4b		-
B-014-3-19				SS-24	88.50	90.00			3			21	16		59	17		18		A-4b		-
B-014-3-19				SS-25	93.50	95.00			8									20		A-4b		-
B-014-3-19				SS-26	98.50	100.00			8									13		A-4b		-
B-014-4-19				SS-1	01.00	02.50			33									4		A-1-a		-
B-014-4-19				SS-2	02.50	04.00			17									4		A-1-b		-
B-014-4-19				SS-3	04.00	05.50			13									3		A-1-a		-
B-014-4-19				SS-4	05.50	07.00			4			20	16		12	7		53		A-1-b		-
B-014-4-19				SS-5	08.50	10.00			3			18	14		28	16		15		A-4a		-
B-014-4-19				SS-6	11.00	12.50			13									15		A-4a		-
B-014-4-19				SS-7	13.50	15.00			15			22	15		47	22		14		A-4a		-
B-014-4-19				SS-8	16.00	17.50			35									14		A-4a		-
B-014-4-19				SS-9	18.50	20.00			15			25	18		39	20		16		A-4a		-
B-014-4-19				SS-10	21.00	22.50			15									8		A-3a		-

"GB1 Subgrade Analysis Tab, PID 102329, INTERSTATE 76/77, OGE Number SUM-076/077-08.42/09.74"

EXPLOR. ID	STATION	OFFSET	DIR	SAMPLE ID	SAMPLE FROM	SAMPLE TO	SUBGRADE FROM	SUBGRADE TO	N60	N60L	tsf HP	LL	PL	PI	% SILT	% CLAY	P 200	% WC	MOPT	ODOT CLASS	GI	ppm SO4
B-014-4-19				SS-11	23.50	25.00			7									10		A-3a		-
B-014-4-19				SS-12	28.50	30.00			11									9		A-3a		-
B-014-4-19				SS-13	33.50	35.00			8									9		A-3a		-
B-014-4-19				SS-14	38.50	40.00			10									23		A-3a		-
B-014-4-19				SS-15	43.50	45.00			20									18		A-3a		-
B-014-4-19				SS-16	48.50	50.00			40									19		A-3a		-
B-014-4-19				SS-17	53.50	55.00			32			NP	NP		42	10		19		A-4a		-
B-014-4-19				SS-18	58.50	60.00			18									28		A-4b		-
B-014-4-19				SS-19	63.50	65.00			15									25		A-4b		-
B-014-4-19				SS-20	68.50	70.00			8			18	14		53	23		17		A-4b		-
B-014-4-19				SS-21	73.50	75.00			7									14		A-4b		-
B-014-4-19				SS-22	78.50	80.00			63									22		A-3		-
B-014-4-19				SS-23	83.50	85.00			64									17		A-3		-
B-014-4-19				SS-24	88.50	90.00			92									19		A-3		-
B-014-4-19				SS-25	93.50	95.00			107									7		A-3		-
B-014-4-19				SS-26	98.50	100.00			107									17		A-3		-
B-015-0-20					01.00	02.50			29			NP	NP		15	10		11		A-3a		-
B-015-0-20					02.50	04.00			20		2.00	19	14		30	15		14		A-4a		-
B-015-0-20					04.00	05.50			61			NP	NP		11	8		9		A-3a		-
B-015-0-20					05.50	05.67			/2"/2"									11		Rock		-
B-016-0-20					01.00	02.50			4		0.50	23	16		27	14		15		A-4a		-
B-016-0-20					02.50	04.00			15			15	14		22	11		13		A-3a		-
B-016-0-20					04.00	05.50			15									22		A-4b		-
B-016-0-20					05.50	07.00			12									15		A-4a		-
B-017-0-18				SS-1	01.00	02.50			32			16	13		17	11		9		A-3a		-
B-017-0-18				SS-2	02.50	04.00			20			22	14		23	19		12		A-4a		-
B-017-0-18				SS-3	04.00	05.50			25		4.50							13		A-4a		-
B-017-0-18				SS-4	05.50	07.00			26									12		A-4a		-
B-017-0-18				SS-5	07.00	08.50			12									15		A-4a		-
B-018-0-20					01.50	03.00			58		4.50	NP	NP		30	15		18		A-4a		-
B-018-0-20					03.00	03.08			/1"/1"									4		A-1-a		-
B-018-0-20					04.00	04.08			/1"/1"									3		A-1-a		-
B-019-0-20					01.00	02.50			20			NP	NP		17	9		10		A-3a		-
B-019-0-20					02.50	03.42			8//5"/5"									7		A-3a		-
B-019-0-20					04.00	04.08			/1"/1"									5		A-1-b		-
B-020-0-20					01.00	02.50			57		4.50	NP	NP		30	15		10		A-4a		-
B-020-0-20					02.50	04.00			19			NP	NP		7	5		7		A-3a		-
B-020-0-20					04.00	05.50			20			19	15		35	17		15		A-4a		-
B-020-0-20					05.50	07.00			15		3.50							22		A-4b		-
B-021-0-18	520+31	32	Rt	SS-1	01.00	02.50			18			23	15		35	23		16		A-4a		-
B-021-0-18	520+31	32	Rt	SS-2	02.50	04.00			14			23	15		34	20		13		A-4a		-
B-021-0-18	520+31	32	Rt	SS-3	04.00	05.50			26		4.50							17		A-4a		-
B-021-0-18	520+31	32	Rt	SS-4	05.50	07.00			29		3.25							16		A-6b		-
B-022-0-18	524+33	28	Lt	SS-1	01.00	01.80			1/50			25	21		15	7		20		A-1-b		-
B-022-0-18	524+33	28	Lt	SS-2	02.50	02.80			50									19		A-1-b		-
B-023-0-18	526+65	44	Lt	SS-1	01.25	02.50						28	18		28	17		12		A-4a		-
B-023-0-18	526+65	44	Lt	SS-2	02.50	04.00			10			27	18		27	14		10		A-4a		-
B-023-0-18	526+65	44	Lt	SS-3	04.00	05.50			7									11		A-4a		-
B-023-0-18	526+65	44	Lt	SS-4	05.50	05.50			WOH		0.50							16		A-4a		-
B-024-0-18	325+94	56	Rt	SS-1	01.00	02.50			11			NP	NP					6		A-1-a		-
B-024-0-18	325+94	56	Rt	SS-2	02.50	04.00			36			22	15		29	15		13		A-4a		-
B-024-0-18	325+94	56	Rt	SS-3	04.00	05.50			17									15		A-6b		-
B-024-0-18	325+94	56	Rt	SS-4	05.50	07.00			11		1.00							13		A-6b		-
B-025-0-18	329+94	94	Rt	SS-1	01.00	02.50			10			NP	NP					11		A-1-a		-
B-025-0-18	329+94	94	Rt	SS-2	02.50	04.00			8			21	13		21	16		12		A-4a		-
B-025-0-18	329+94	94	Rt	SS-3	04.00	05.50			4									12		A-4a		-
B-025-0-18	329+94	94	Rt	SS-4	05.50	07.00			18									16		A-6b		-
B-026-0-18	333+94	63	Lt	SS-1	01.13	02.50						NP	NP					9		A-1-a		-
B-026-0-18	333+94	63	Lt	SS-2	02.50	04.00			73			NP	NP		8	3		12		A-1-b		-
B-026-0-18	333+94	63	Lt	SS-3	04.00	05.50			2									7		A-1-a		-
B-026-0-18	333+94	63	Lt	SS-4	05.50	06.00			48/50		2.50							5		Rock		-
B-027-0-18	337+94	15	Rt	SS-1	01.00	02.50			29			NP	NP					13		A-1-b		-
B-027-0-18	337+94	15	Rt	SS-2	02.50	04.00			32			NP	NP					12		A-3a		-
B-027-0-18	337+94	15	Rt	SS-3	04.00	04.80			40/50									9		A-3a		-
B-027-0-18	337+94	15	Rt	SS-4	05.50	05.80			50									10		A-3a		-
B-028-0-18	342+89	5	Lt	SS-1	01.20	02.50						NP	NP		4	4		7		A-1-a		-
B-028-0-18	342+89	5	Lt	SS-2	02.50	03.20			34/50			NP	NP					11		A-3a		-
B-028-0-18	342+89	5	Lt	SS-3	04.00	04.30			50									15		A-3a		-
B-028-0-18	342+89	5	Lt	SS-4	05.50	05.70			50									14		Rock		-
B-029-0-18	346+89	38	Rt	SS-1	01.00	02.50			28			NP	NP					17		A-1-b		-
B-029-0-18	346+89	38	Rt	SS-2	02.50	04.00			29			28	20		38	21		10		Rock		-
B-029-0-18	346+89	38	Rt	SS-3	04.00	04.80			27/50									6		Rock		-
B-029-0-18	346+89	38	Rt	SS-4	05.50	06.30			44/50									8		Rock		-
B-030-0-18	350+89	38	Lt	SS-1	01.00	02.50			19			31	21		36	28		8		Rock		-
B-030-0-18	350+89	38	Lt	SS-2	02.50	03.50			134			30	19		36	18		5		Rock		-
B-030-0-18	350+89	38	Lt	SS-3	04.00	04.70			28/50									6		Rock		-
B-031-0-18	354+89	6	Rt	SS-1	01.00	02.50			12			28	23		17	9		10		A-2-4		-
B-031-0-18	354+89	6	Rt	SS-2	02.50	04.00			10			28	16		28	19		11		A-6a		-
B-031-0-18	354+89	6	Rt	SS-3	04.00	05.30			80									8		Rock		-
B-031-0-18	354+89	6	Rt	SS-4	05.50	06.30			33/50									6		Rock		-
B-032-0-18	358+95	14	Lt	SS-1	01.00	02.50			14			27	19		40	18		11		A-4a		-
B-032-0-18	358+95	14	Lt	SS-2	02.50	03.80			106			NP	NP					8		A-1-b		-

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EXPLOR. ID	STATION	OFFSET	DIR	SAMPLE ID	SAMPLE FROM	SAMPLE TO	SUBGRADE FROM	SUBGRADE TO	N60	N60L	tsf HP	LL	PL	PI	% SILT	% CLAY	P 200	% WC	MOPT	ODOT CLASS	GI	ppm SO4
B-032-0-18	358+95	14	Lt	SS-3	04.00	04.70			8/50									15		Rock		-
B-032-0-18	358+95	14	Lt	SS-4	05.50	05.80			50									4		Rock		-
B-033-0-18	362+84	49	Rt	SS-1	01.10	02.50						24	16		36	19		12		A-4a		-
B-033-0-18	362+84	49	Rt	SS-2	02.50	04.00			12			25	18		56	22		6		A-4b		-
B-033-0-18	362+84	49	Rt	SS-3	04.00	05.50			11									15		A-6b		-
B-033-0-18	362+84	49	Rt	SS-4	05.50	07.00			55		1.75							16		A-6b		-
B-034-0-18	367+68	64	Lt	SS-1	01.00	02.50			22			NP	NP					5		A-1-b		-
B-034-0-18	367+68	64	Lt	SS-2	02.50	04.00			19			17	8		18	14		11		A-2-4		-
B-034-0-18	367+68	64	Lt	SS-3	04.00	05.50			17		2.25							17		A-4a		-
B-034-0-18	367+68	64	Lt	SS-4	05.50	07.00			32									11		A-4a		-
B-034-0-18	367+68	64	Lt	SS-5	07.00	08.50			16									17		A-4b		-
B-035-0-18	374+89	15	Rt	SS-1	01.13	02.50						27	15		22	18		12		A-6a		-
B-035-0-18	374+89	15	Rt	SS-2	02.50	04.00			10			24	14		37	27		13		A-4a		-
B-035-0-18	374+89	15	Rt	SS-3	04.00	05.50			22		4.50							13		A-4a		-
B-035-0-18	374+89	15	Rt	SS-4	05.50	07.00			32		4.50							11		A-4a		-
B-036-0-18	379+64	5	Lt	SS-1	01.00	01.30			50			NP	NP					9		A-1-b		-
B-036-0-18	379+64	5	Lt	SS-2	02.50	04.00			8			NP	NP					9		UCF		-
B-036-0-18	379+64	5	Lt	SS-3	04.00	05.50			29		4.50							14		A-6a		-
B-036-0-18	379+64	5	Lt	SS-4	05.50	07.00			30		4.50							12		A-6a		-
B-037-0-18	382+89	39	Rt	SS-1	01.00	02.50			12			NP	NP					10		A-1-b		-
B-037-0-18	382+89	39	Rt	SS-2	02.50	04.00			5			NP	NP					10		A-1-b		-
B-037-0-18	382+89	39	Rt	SS-3	04.00	05.50			7		4.00							11		A-6a		-
B-037-0-18	382+89	39	Rt	SS-4	05.50	07.00			2									16		A-3a		-
B-038-0-18	386+89	50	Lt	SS-1	01.30	02.50						18	12		20	11		12		A-3a		-
B-038-0-18	386+89	50	Lt	SS-2	02.50	04.00			10			27	18		56	30		19		A-4b		-
B-038-0-18	386+89	50	Lt	SS-3	04.00	05.50			16		4.25							14		A-4b		-
B-038-0-18	386+89	50	Lt	SS-4	05.50	07.00			25		4.25							14		A-4b		-
B-038-0-18	386+89	50	Lt	SS-5	07.00	08.50			13		4.00							15		A-4b		-
B-039-0-18	390+90	6	Rt	SS-1	01.10	02.50						28	20		37	24		11		A-4a		-
B-039-0-18	390+90	6	Rt	SS-2	02.50	04.00			46			25	17		18	11		8		A-2-4		-
B-039-0-18	390+90	6	Rt	SS-3	04.00	04.70			41/50									10		Rock		-
B-039-0-18	390+90	6	Rt	SS-4	05.50	05.80			50									16		Rock		-
B-040-0-18	394+89	75	Lt	SS-1	01.00	02.50			22			NP	NP					8		A-1-b		-
B-040-0-18	394+89	75	Lt	SS-2	02.50	03.70			118			29	20		42	22		4		Rock		-
B-040-0-18	394+89	75	Lt	SS-3	04.00	05.20			122									4		Rock		-
B-041-0-18	398+66	64	Rt	SS-1	01.20	02.50						NP	NP		9	3		5		A-1-b		-
B-041-0-18	398+66	64	Rt	SS-2	02.50	04.00			22			NP	NP					5		A-1-a		-
B-041-0-18	398+66	64	Rt	SS-3	04.00	05.50			6									8		A-1-a		-
B-042-0-18	402+00	51	Lt	1A	01.00	01.90			13			NP	NP					7		A-1-a		-
B-042-0-18	402+00	51	Lt	1B	01.90	02.50														Rock		-
B-042-0-18	402+00	51	Lt	SS-2	02.50	02.80			50									9		Rock		-
B-042-0-18	402+00	51	Lt	SS-3	04.00	04.20			50									9		Rock		-
B-042-0-18	402+00	51	Lt	SS-4	05.50	05.80			50									7		Rock		-
B-043-0-18	406+11	16	Rt	SS-1	01.10	02.50						NP	NP					9		A-1-a		-
B-043-0-18	406+11	16	Rt	SS-2	02.50	03.10			9/50									12		Rock		-
B-043-0-18	406+11	16	Rt	SS-3	04.00	04.30			50									11		Rock		-