DLZ
ARCHITECTURE • ENGINEERING • PLANNING
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INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

August 25, 2020

Peter Narsavage, P.E.
E.L. Robinson Engineering (ELR)
950 Goodale Boulevard, Suite 180
Grandview Heights, OH 43212

RE: Subsurface Exploration Data Report
SUM 76/77 Phase III

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, and GB-1 summary are attached. 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

II. Plan/Survey Data

III. Pavement Core Photos

IV. Boring Logs

V. Grain Size Reports

VI. GB-1 Subgrade Analysis Summary Table

TABLE OF BORINGS

Pavement Core #	Type	Road Name	Direction	Location	Estimated Depth (Feet)
P-002-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Shoulder of S.R. 8	10
P-004-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Lane of S.R. 8	10
P-005-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Inside Lane of S.R. 8	10
P-007-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Inside Shoulder of S.R. 8	10
P-010-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Shoulder of S.R. 8	10
P-014-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Lane of S.R. 8	10
P-015-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Inside Lane of S.R. 8	10
P-017-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Inside Shoulder of S.R. 8	10
P-019-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Shoulder of S.R. 8	10
P-025-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Shoulder of S.R. 8	10
P-027-0-20	Pavement Core	S.R. 8 - Mainline	Northbound	Outside Shoulder of S.R. 8	10
P-030-0-20	Pavement Core	S.R. 8 - Ramp	Northbound	Inside Shoulder of S.R. 8 Ramp	10
P-033-0-20	Pavement Core	S.R. 8 - Ramp	Northbound	Inside Lane of S.R. 8 Ramp	10
P-001-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Inside Shoulder of S.R. 8	10
P-003-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Lane of S.R. 8	10
P-006-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Shoulder of S.R. 8	10
P-008-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Inside Shoulder of S.R. 8	10
P-009-0-20	Pavement Core	S.R. 8 - Ramp	Southbound	Outside Shoulder of S.R. 8 Ramp	10
P-011-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Inside Lane of S.R. 8	10
P-012-0-20	Pavement Core	S.R. 8 - Ramp	Southbound	Outside Lane of S.R. 8 Ramp	10
P-013-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Gore Area of S.R. 8	10
P-016-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Shoulder of S.R. 8	10
P-018-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Inside Shoulder of S.R. 8	10
P-020-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Shoulder of S.R. 8	10
P-022-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Lane of S.R. 8	10
P-024-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Shoulder of S.R. 8	10
P-028-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Shoulder of S.R. 8 Ramp	10
P-029-0-20	Pavement Core	S.R. 8 - Ramp	Southbound	Outside Lane of S.R. 8 Ramp	10
P-032-0-20	Pavement Core	S.R. 8 - Mainline	Southbound	Outside Shoulder of S.R. 8	10
Boring #	**Boring Type**	**Road Name**	**Direction**	**Location**	**Estimated Depth (Feet)**
E3-001-0-20	Retaining Wall	S.R. 8	Southbound	Existing Slope	50
E3-002-0-20	Retaining Wall	S.R. 8	Southbound	Existing Slope	50
E3-003-0-20	Retaining Wall	S.R. 8	Southbound	Existing Slope	50
E3-004-0-20	Retaining Wall	S.R. 8	Southbound	Existing Slope	50
E3-005-0-20	Retaining Wall	I.R. 77 - Ramp S8	Southbound	Existing Slope	50
E3-006-0-20	Retaining Wall	I.R. 77 - Ramp S8	Southbound	Existing Slope	50
E3-007-0-20	Retaining Wall	I.R. 77 - Ramp S8	Southbound	Existing Slope	50
E3-008-0-20	Retaining Wall	I.R. 77 - Ramp S8	Southbound	Existing Slope	50
B2-001-0-20	Cut Section	S.R. 8	Southbound	Existing Top of Slope	30

PLAN/SURVEY DATA

DRILLED 4-1-20 10115
EL=1007.66

305+99.77
53.23' LT

SOIL/018-020 10115
EL=1007.68

SOIL/019-20 AS DRILLED 3-31-20
EL=1011.07

309+61.47
6.21' LT

SOIL/019-20 10116
EL=1011.12

PRINCETON ST.

PI 48+98.86

SOIL/020-20 AS DRILLED 3-31-20
EL=1012.88

313+60.87
7.00' LT

SOIL/020-20
EL=1012.90

POT 324+52.02

306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324

1"=50'

28.24

54

52

POT 121+65.46

PI 121+00.00

POT 120+78.89

PI 47+00.00

PI 45+84.63

B-014-3-20
EL=982.41

B-014-2-19
EL=967.51

290+22.91
99.21' LT

SOIL/8014-20 AS DRILLED 3-31-20
EL=986.29

SOIL/8014-20 10108
EL=986.21

288+89
94.79' RT

PI 50+00.00

287+09.01
14.55' LT

POT 47+22.44

49

BOWERY

OHIO CANAL

POT 119+94.39

PCC 124+15.61

B-014-3-19
EL=992.97

293+96.77
95.03' LT

PCC 125+07.08

PCC 125+78.89

296+07.16
99.30' LT

B-014-4-19
EL=995.24

SOIL/015-20 10113
EL=996.63

SOIL/015-20 AS DRILLED 4-1-20
EL=996.60

297+60.61
52.34' LT

PI 304+52.08

SOIL/018-020 AS DRILLED 4-1-20 10115
EL=1007.66

305+99.77
53.23' LT

B-017-0-18
EL=1001.87

301+60.62
51.13' RT

SOIL/016-020 AS DRILLED 3-30-20
EL=991.59

300+98.52
122.29' RT

85 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306

1"=50'

POT 50+09.74

PI 49+73.74

PI 48+62.54

POT 47+22.27

50

49

48

47

PC 268+31.79

268+29.13
65.44' LT

B-009-2-19
EL=1006.28

269+83.17
6.05' LT

B-010-0-18
EL=999.66

B-009-1-19
EL=1012.80

266+14.82
64.18' RT

MANCHESTER

I-77 / I-76

275+17.90
12.02' RT

B-011-0-18
EL=981.67

279+11.38
64.16' LT

B-012-0-18
EL=979.26

PI 284+42.65

281+09.32
55.53' RT

B-013-0-18
EL=980.47

265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285

1"=50'

ROSAMOND ST.

PC 244+91.79

POT 50+00.00

PCC 246+37.80

52

51

EAST AVE. 60'

B-004-0-18
EL=1067.53

248+32.41
7.59' RT

PI 258+39.55

256+20.96
9.65' RT

B-007-0-18
EL=1049.34

245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265

1"=50'

1"=50'

CATAWBA AVE.

PI 338+56.99

B-027-0-18
EL=1106.93

337+90.47
6.75' RT

I77 ALIGNMENT RESOLVED BY DLZ

333+89.79
63.16' LT

B-026-0-18
EL=1097.81

329+89.91
62.86' RT

B-025-0-18
EL=1088.13

ALLENDALE

325+90.01
55.68' RT

B-024-0-18
EL=1078.48

PRENTISS AVE.

POT 325+00.64

B-023-0-18
EL=1075.45

I77 ALIGNMENT RESOLVED BY GPD

B-022-0-18
EL=1070.43

B-021-0-18
EL=1056.61

362+81.37
68.40' RT

B-033-0-18
EL=1115.79

SOIL/ASBORE 7-16-20 E3-006-0-20
EL=1120.34

361+01.63
111.07' LT

PL

358+81.32
6.68' LT

B-032-0-18
EL=1109.63

PT 357+92.03

357+66.76
147.20' LT

SOIL/ASBORE 7-16-20 E3-005-0-20
EL=1123.03

354+95.42
6.66' RT

B-031-0-18
EL=1103.94

WILBETH

PCC 353+45.40

PC 352+67.07

350+86.10
51.81' LT

B-030-0-18
EL=1104.21

B-029-0-18
EL=1110.47

346+84.18
49.26' RT

342+67.89
8.28' LT

B-028-0-18
EL=1112.12

B-037-0-18
EL=1120.35

382+87.66
49.03' RT

B-036-0-18
EL=1124.12

381+03.59
6.12' LT

ARCHWOOD AVE.

PI 378+34.08

BURKHARDT

374+73.18
6.07' RT

B-035-0-18
EL=1131.04

PT 372+99.85

FIRESTONE BLVD.

PCC 370+84.63
PCT 370+80.27

COVENTRY

SOIL/ASDRILLED 7-15-20 E3-008-0-20
EL=1123.75

367+64.19
64.10' LT

367+73.19
79.86' LT

B-034-0-18
EL=1124.82

PC 365+09.32

SOIL/ASBORE 7-16-20 E3-007-0-20
EL=1122.69

364+32.63
88.94' LT

REED AVE.

PI 363+47.80

POT 407+17.04

STATION EQUATION
4292+09.62 AHEAD

PCC 406+93.81

LOVERS LANE(60')

406+10.36
7.95' LT

B-043-0-18
EL=1083.85

401+89.85
62.89' LT

B-042-0-18
EL=1085.36

PC 401+41.34

B-041-0-18
EL=1088.06

398+61.92
63.98' RT

COLE AVE.

PI 396+57.00

394+84.91
74.81' LT

B-040-0-18
EL=1093.76

391+90.42
7.19' RT

B-039-0-18
EL=1100.35

386+88.51
48.40' LT

B-038-0-18
EL=1111.55

1"=50'

I77 ALIGNMENT RESOLVED BY B&N

SOIL/ASDRILLED 7-16-20 E3-004-0-20
EL=1098.26
4330+72.32
89.20' LT

POT 325+00.64

SOIL/ASDRILLED 7-16-20 E3-003-0-20
EL=1093.20
4329+56.60
93.70' LT

SOIL/ASDRILLED P014-0-20
EL=1074.97
4329+22.14
30.65' RT

SOIL/ASDRILLED 7-16-20 E3-002-0-20
EL=1091.73
4328+41.76
111.64' LT

SOIL/ASDRILLED P013-0-20
EL=1072.17
4327+96.89
47.62' LT

4327+23.59
129.38' LT

SOIL/ASDRILLED 7-16-20 E3-001-0-20
EL=1089.64

SOIL/ASDRILLED P011-0-20
EL=1068.77
4326+28.33
12.19' LT

SOIL/ASDRILLED P012-0-20
EL=1069.90
4326+01.45
90.98' LT

SOIL/ASDRILLED P010-0-20
EL=1066.12
4325+17.56
34.68' RT

SOIL/ASDRILLED P008-0-20
EL=1059.79
4322+19.35
8.43' LT

SOIL/ASDRILLED P009-0-20
EL=1074.96
4322+06.11
136.59' LT

SOIL/ASDRILLED P007-0-20
EL=1057.99
4321+13.34
8.79' RT

SOIL/ASDRILLED P006-0-20
EL=1054.81
4318+14.90
34.58' LT

SOIL/ASDRILLED P005-0-20
EL=1055.02
4317+79.49
9.75' RT

I-76

SOIL/ASDRILLED P004-0-20
EL=1056.02
4314+82.22
29.16' RT

SOIL/ASDRILLED P003-0-20
EL=1056.91
4314+12.33
31.62' LT

SOIL/ASDRILLED P002-0-20
EL=1062.64
4310+79.89
37.86' RT

SOIL/ASDRILLED P001-0-20
EL=1064.95
4314+13.32
8.13' LT

I77 ALIGNMENT RESOLVED BY B&N

347+83.71
59.34' RT

E. EXCHANGE ST.

PI 347+05.49

SOIL/ASDRILLED P024-0-20
EL=1044.85
344+03.84
54.98' LT

FOUNTAIN ST.

SOIL/ASDRILLED P022-0-20
EL=1048.26
340+04.21
42.59' LT

SOIL/ASDRILLED P020-0-20
EL=1055.97
336+51.58
50.38' LT

BEACON ST.

PI 335+43.35

SOIL/ASDRILLED P019-0-20
EL=1060.45
334+67.98
61.10' RT

SOIL/ASDRILLED 7-14-20 B2-001-0-20
EL=1064.08
333+51.41
51.51' LT

SOIL/ASDRILLED P018-0-20
EL=1066.98
332+50.26
11.41' LT

PT 331+78.29

SOIL/ASDRILLED P017-0-20
EL=1070.21
331+42.80
8.40' RT

SOIL/ASDRILLED P016-0-20
EL=1076.87
328+48.46
41.80' LT

SOIL/ASDRILLED P015-0-20
EL=1077.65
327+43.84
9.32' RT

SOIL/ASDRILLED 7-16-20 E3-004-0-20
EL=1098.26
4330+72.32
89.20' LT

POT 325+00.64

I77 ALIGNMENT RESOLVED BY DLZ

E. BUCHTEL AVE

PCC 366+92.32

GOODKIRK ST.

FOUNTAIN ST.

CARROLL ST.

PCC 362+26.95

PC 360+74.64

SOIL/ASDRILLED P033-0-20
EL=1045.28
360+36.69
138.62' RT

SOIL/ASDRILLED P032-0-20
EL=1034.64
360+04.80
53.19' LT

SOIL/ASDRILLED P030-0-20
EL=1033.09
355+20.61
110.76' RT

SOIL/ASDRILLED P029-0-20
EL=1037.96
354+05.81
84.98' LT

SOIL/ASDRILLED P028-0-20
EL=1039.34
352+04.31
72.38' LT

SOIL/ASDRILLED P027-0-20
EL=1039.06
351+75.01
79.83' RT

SOIL/ASDRILLED P025-0-20
EL=1042.71
347+83.71
59.34' RT

GOODKIRK ST.

E. EXCHANGE ST.

PI 347+05.49

PAVEMENT CORE PHOTOS

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

Boring	Paving Thickness	Boring	Paving Thickness
P-001-0-20	4” Asphalt / 9” Concrete	**P-018-0-20**	3” Asphalt / 4.5” Concrete
P-002-0-20	4.5” Asphalt / 8” Concrete	**P-019-0-20**	13.5” Asphalt
P-003-0-20	6.75” Asphalt / 8.5” Concrete	**P-020-0-20**	11.5” Asphalt
P-004-0-20	5.75” Asphalt / 8.5” Concrete	**P-022-0-20**	13.75” Asphalt
P-005-0-20	5” Asphalt / 9.25” Concrete	**P-024-0-20**	12” Asphalt
P-006-0-20	4.75” Asphalt / 9.25 Concrete	**P-025-0-20**	11.75” Asphalt
P-007-0-20	4” Asphalt / 10.75” Concrete	**P-027-0-20**	12.25” Asphalt
P-008-0-20	4” Asphalt	**P-028-0-20**	13.75” Asphalt
P-009-0-20	8.75” Asphalt	**P-029-0-20**	13” Asphalt
P-010-0-20	3.25” Asphalt / 9.5” Concrete	**P-030-0-20**	13.25” Asphalt
P-011-0-20	4” Asphalt	**P-032-0-20**	12.75” Asphalt
P-012-0-20	5.25” Asphalt / 8.5” Concrete	**P-033-0-20**	9” Concrete
P-013-0-20	2.25” Asphalt / 8.75” Concrete		
P-014-0-20	3.5” Asphalt / 8.5” Concrete		
P-015-0-20	3.75” Asphalt / 8.5” Concrete		
P-016-0-20	4” Asphalt / 9.5” Concrete		
P-017-0-20	4.75” Asphalt / 8.25” Concrete		

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-001-0-20
Asphalt: 4”
Concrete: 9”
Date Cored: 06/24/2020
Date Drilled: 06/24/2020

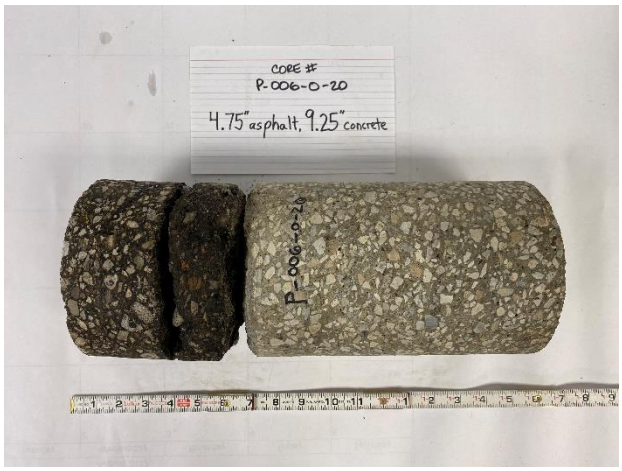
Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-002-0-20
Asphalt: 4.5”
Concrete: 8”
Date Cored: 06/25/2020
Date Drilled: 06/25/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-003-0-20
Asphalt: 6.75”
Concrete: 8.5”
Date Cored: 06/24/2020
Date Drilled: 06/25/2020

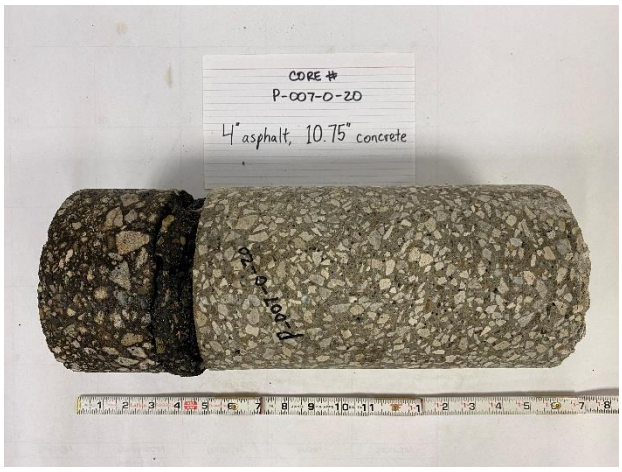
Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-004-0-20
Asphalt: 5.75”
Concrete: 8.5”
Date Cored: 06/25/2020
Date Drilled: 06/25/2020

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-005-0-20
Asphalt: 5”
Concrete: 9.25”
Date Cored: 06/26/2020
Date Drilled: 06/26/2020



Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-006-0-20
Asphalt: 4.75”
Concrete: 9.25”
Date Cored: 06/24/2020
Date Drilled: 06/24/2020



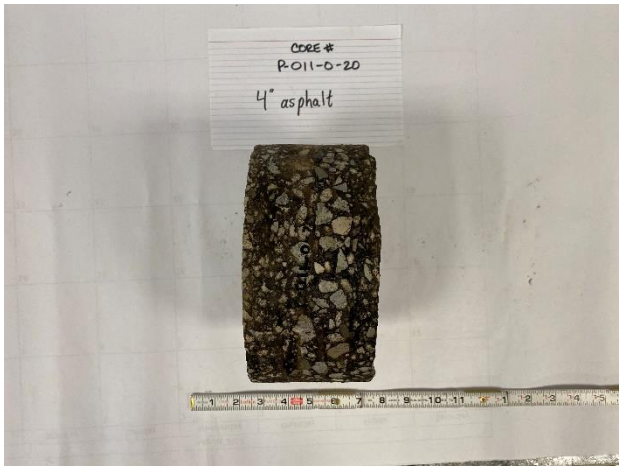
Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-007-0-20
Asphalt: 4”
Concrete: 10.75”
Date Cored: 06/26/2020
Date Drilled: 06/26/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-008-0-20
Asphalt: 4”
Concrete:
Date Cored: 06/24/2020
Date Drilled: 06/24/2020

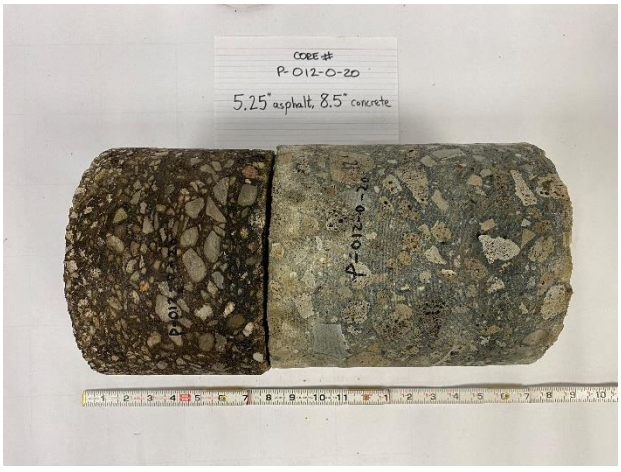
Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-009-0-20
Asphalt: 8.75”
Concrete:
Date Cored: 06/23/2020
Date Drilled: 06/23/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-010-0-20
Asphalt: 3.25”
Concrete: 9.5”
Date Cored: 06/25/2020
Date Drilled: 06/25/2020

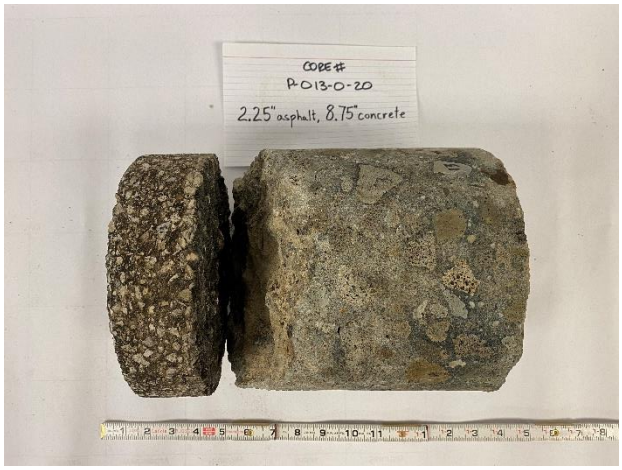


Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-011-0-20
Asphalt: 4”
Concrete:
Date Cored: 06/24/2020
Date Drilled: 06/24/2020



Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-012-0-20
Asphalt: 5.25”
Concrete: 8.5”
Date Cored: 06/23/2020
Date Drilled: 06/23/2020

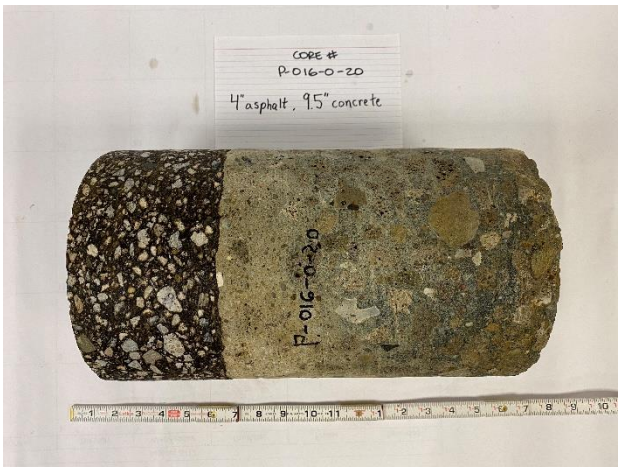
Phase 3 Retaining Wall SR 8 Job # 1822-1016.00



Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-013-0-20
Asphalt: 2.25”
Concrete: 8.75”
Date Cored: 06/24/2020
Date Drilled: 06/24/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-014-0-20
Asphalt: 3.5”
Concrete: 8.5”
Date Cored: 06/25/2020
Date Drilled: 06/25/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-015-0-20
Asphalt: 3.75”
Concrete: 8.5”
Date Cored: 06/30/2020
Date Drilled: 06/30/2020



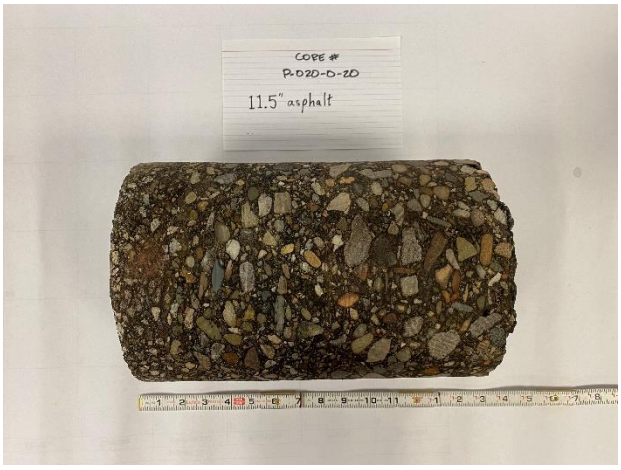
Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-016-0-20
Asphalt: 4”
Concrete: 9.5”
Date Cored: 06/23/2020
Date Drilled: 06/23/2020

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-017-0-20
Asphalt: 4.75”
Concrete: 8.25”
Date Cored: 06/30/2020
Date Drilled: 06/30/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-018-0-20
Asphalt: 3”
Concrete: 4.5”
Date Cored: 06/24/2020
Date Drilled: 06/24/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-019-0-20
Asphalt: 13.5”
Concrete:
Date Cored: 06/25/2020
Date Drilled: 06/25/2020



Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-020-0-20
Asphalt: 11.5”
Concrete:
Date Cored: 06/23/2020
Date Drilled: 06/23/2020

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

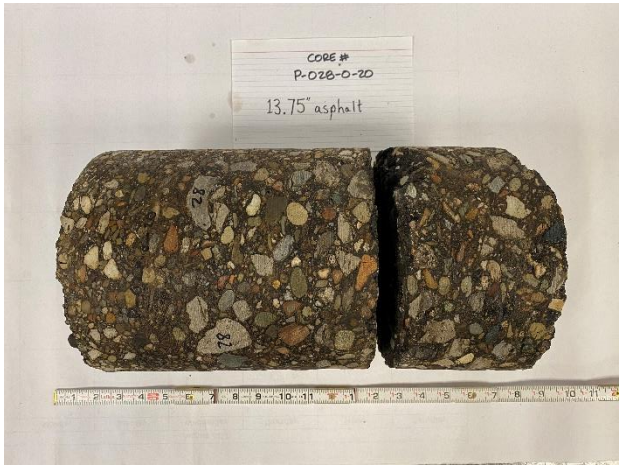
Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-022-0-20
Asphalt: 13.75”
Concrete:
Date Cored: 06/23/2020
Date Drilled: 06/23/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-024-0-20
Asphalt: 12”
Concrete:
Date Cored: 06/23/2020
Date Drilled: 06/23/2020

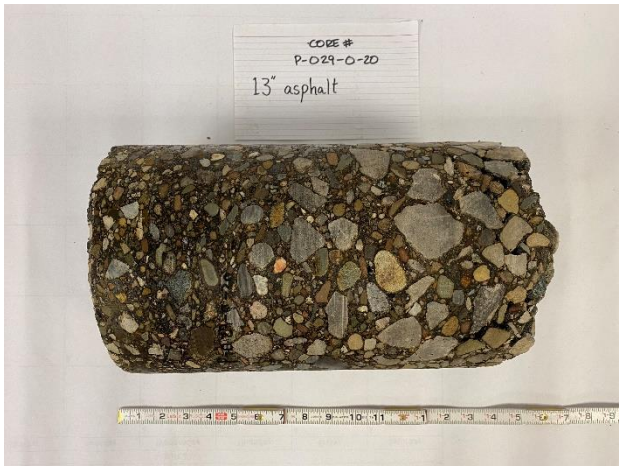
Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-025-0-20
Asphalt: 11.75”
Concrete:
Date Cored: 06/25/2020
Date Drilled: 06/25/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-027-0-20
Asphalt: 12.25”
Concrete:
Date Cored: 06/30/2020
Date Drilled: 07/01/2020

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00



Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-028-0-20
Asphalt: 13.75”
Concrete:
Date Cored: 06/22/2020
Date Drilled: 06/23/2020



Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-029-0-20
Asphalt: 13”
Concrete:
Date Cored: 06/22/2020
Date Drilled: 06/22/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-030-0-20
Asphalt: 13.25”
Concrete:
Date Cored: 07/01/2020
Date Drilled: 07/01/2020

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-032-0-20
Asphalt: 12.75”
Concrete:
Date Cored: 06/22/2020
Date Drilled: 06/22/2020

Phase 3 Retaining Wall SR 8 Job # 1822-1016.00

Project Name: SUM 76-77 Phase 3 Retaining Wall on SR8
Project Number: 1822-1016-00
Boring: P-033-0-20
Asphalt:
Concrete: 9”
Date Cored: 07/01/2020
Date Drilled: 07/01/2020

BORING LOGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 333+51, 52' LT.	EXPLORATION ID B2-001-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1064.1 (MSL) EOB: 40.0 ft.	PAGE 1 OF 2
START: 7/15/20 END: 7/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 511889.9690 N, 2242981.6090 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, 8" ASPHALT 4" GRANULAR BASE	1064.1																	
STIFF, BROWN, **SANDY SILT**, LITTLE FINE SAND, TRACE GRAVEL, DAMP	1063.1	1	5 9 10	29	89	SS-1	-	8	8	23	37	24	25	17	8	11	A-4a (5)	
MEDIUM DENSE, LIGHT TAN BROWN, **FINE SAND**, SOME GRAVEL, LITTLE SILT, DAMP	1060.6	4	2 8 13	32	78	SS-2	-	-	-	-	-	-	-	-	-	5	A-3 (V)	
P.S.		7	2 2 4	9	33	SS-3	-	-	-	-	-	-	-	-	-	13	A-3 (V)	
MEDIUM STIFF, BROWN, **SANDY SILT**, LITTLE FINE SAND, TRACE GRAVEL, SAND LENSES, DAMP	1055.6	9	3 4 5	14	83	SS-4	-	4	13	31	27	25	24	14	10	12	A-4a (3)	
		12	2 3 7	15	72	SS-5	-	-	-	-	-	-	-	-	-	10	A-4a (V)	
MEDIUM STIFF, BROWN, **SANDY SILT**, LITTLE TO SOME FINE SAND, DAMP	1050.6	14	4 6 7	20	56	SS-6	-	5	8	30	42	15	22	16	6	14	A-4a (4)	
STIFF, BROWN, **SILT AND CLAY**, TRACE SAND, TRACE GRAVEL, QUARTZITE FRAGMENTS, DAMP	1048.1	17	4 10 9	29	94	SS-7	-	6	3	12	51	28	30	18	12	18	A-6a (9)	
VERY STIFF, BROWN, **SILT AND CLAY**, LITTLE GRAVEL, TRACE SAND, DAMP	1045.6	19	3 4 4	12	83	SS-8	-	6	7	20	40	27	29	18	11	14	A-6a (7)	
STIFF, BROWN, **SILT AND CLAY**, TRACE SAND, CONTAINS ROOT HAIRS, DAMP	1043.1	22	3 4 6	15	83	SS-9	-	-	-	-	-	-	-	-	-	17	A-6a (V)	
STIFF, GREENISH GREY, **SILT AND CLAY**, CONTAINS SHALE FRAGMENTS AND GRAVEL, DAMP	1040.6	24	6 7 7	21	72	SS-10	-	-	-	-	-	-	-	-	-	11	A-6a (V)	
		27	3 3 5	12	72	SS-11	-	-	-	-	-	-	-	-	-	16	A-6a (V)	
VERY DENSE, BLACK, **UNCONTROLLED FILL**, CONTAINS COAL, SLAG, BRICK, DARK GREY CLAY, DAMP	1035.6	29	30 50/4"	-	100	SS-12	-	-	-	-	-	-	-	-	-	10	UCF (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 333+51, 52' LT.	START: 7/15/20	END: 7/15/20	PG 2 OF 2	B2-001-0-20

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
	1034.1																	
	1033.1																	
MEDIUM DENSE, BLACK, **COARSE AND FINE SAND**, LITTLE SILT, TRACE GRAVEL, DAMP TO MOIST		31	3 4 4	12	83	SS-13	-	11	23	56	4	6	-	-	-	18	A-3a (V)	
		W 1031.0 32 33																
		34	3 4 4	12	61	SS-14	-	-	-	-	-	-	-	-	-	16	A-3a (V)	
		35 36																
		37	2 3 5	12	56	SS-15	-	-	-	-	-	-	-	-	-	18	A-3a (V)	
	1025.6	38																
VERY DENSE, BLACK, **UNCONTROLLED FILL**, CONTAINS SLAG, DAMP		39	1 3 50/0"	-	25	SS-16	-	-	-	-	-	-	-	-	-	18	UCF (V)	
	1024.1	EOB 40																

NOTES: NONE

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

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 4327+24, 129' LT.	EXPLORATION ID E3-001-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1089.6 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/13/20 END: 7/13/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 510696.6100 N, 2242897.1280 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
UNCONTROLLED FILL, 1" TO 3" TOPSOIL, SURFACE MATERIALS CONSISTED OF ORGANIC MATERIAL AND TRASH. SITE CLEARED BY TRACKHOE PRIOR TO RIG ARRIVAL.	1089.6																	
	1088.6	1	5 7 11	27	72	SS-1	-	5	5	19	38	33	27	16	11	13	A-6a (8)	
VERY STIFF, BROWN, **SILT AND CLAY**, TRACE GRAVEL, TRACE SAND, DAMP	1086.1	2																
VERY STIFF, LIGHT BROWN, **SANDY SILT**, LITTLE SAND, DAMP		3																
	1083.6	4	4 8 11	29	83	SS-2	-	13	6	21	41	19	26	20	6	12	A-4a (5)	
VERY STIFF, LIGHT BROWN, **SILT**, LITTLE CLAY, DAMP		5																
		6																
		7	4 10 18	42	78	SS-3	-	14	2	13	54	17	28	22	6	8	A-4b (7)	
		8																
		9	20 50/5"	-	45	SS-4	-	-	-	-	-	-	-	-	-	8	A-4b (V)	
	1078.6	10																
SHALE, GREY TO DARK GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		TR 11	8 15 33	72	89	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		12																
		13																
		14	25 50/5"	-	64	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		15																
		16	50/5"	-	100	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	50/5"	-	100	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		20																
		21	50/5"	-	80	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		22																
		23																
		24	50/4"	-	100	SS-10	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		25																
		26	35 50/5"	-	64	SS-11	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		27																
		28																
		29	32 50/5"	-	64	SS-12	-	-	-	-	-	-	-	-	-	-	Rock (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 4327+24, 129' LT.	START: 7/13/20	END: 7/13/20	PG 2 OF 2	E3-001-0-20

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
SHALE, GREY TO DARK GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, FINE GRAINED, LAMINATED TO VERY THIN BEDDED. *(continued)*	1059.6	31	50/5"	-	100	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/3"	-	100	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	50/5"	-	100	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		38																
		39	50/2"	-	100	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40																
		41	50/3"	-	100	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50/2"	-	100	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/3"	-	100	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47																
		48																
		49	50/1"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1039.6	EOB 50																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 4328+42, 112' LT.	EXPLORATION ID E3-002-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1091.7 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/13/20 END: 7/13/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 510818.3630 N, 2242925.2870 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1091.7	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
UNCONTROLLED FILL, 1" TO 3" TOPSOIL, SURFACE MATERIALS CONSISTED OF ORGANIC MATERIAL AND TRASH. SITE CLEARED BY TRACKHOE PRIOR TO RIG ARRIVAL.	1090.7																	
VERY STIFF, LIGHT BROWN, **SILT AND CLAY**, TRACE SAND, CONTAINS ROOT HAIRS, DAMP		1	6 10 15	38	94	SS-1	-	7	18	9	34	32	30	17	13	12	A-6a (7)	
		2																
		3																
		4	6 14 25	59	83	SS-2	-	12	7	17	33	31	29	17	12	11	A-6a (7)	
		5																
	1085.7	TR 6																
SANDSTONE, LIGHT BROWN, HIGHLY WEATHERED, WEAK TO MODERATELY STRONG, FINE GRAINED, THIN BEDDED, FRIABLE.		7	6 11 16	41	67	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
		8																
		9	14 12 15	41	100	SS-4	-	71	4	19	-	6 -	-	-	-	6	Rock (V)	
		10																
		11	5 5 3	12	61	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		12																
		13																
		14	9 11 48	89	72	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1075.7	15																
SHALE, GREY, HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO THIN BEDDED.		16	14 50/5"	-	100	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	35 50/3"	-	100	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		20																
		21	50/5"	-	100	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		22																
		23																
		24	50/5"	-	100	SS-10	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		25																
		26	50/4"	-	75	SS-11	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		27																
		28																
		29	50/3"	-	100	SS-12	-	-	-	-	-	-	-	-	-	-	Rock (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 4328+42, 112' LT.	START: 7/13/20	END: 7/13/20	PG 2 OF 2	E3-002-0-20

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
SHALE, GREY, HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO THIN BEDDED. *(continued)*	1061.7	31	50/2"	-	100	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/3"	-	100	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	50/2"	-	100	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		38																
		39	50/3"	-	100	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40																
		41	50/3"	-	100	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50/3"	-	33	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/2"	-	50	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47																
		48																
		49	50/4"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1041.7	50 EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 4329+57, 94' LT.	EXPLORATION ID E3-003-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1093.2 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/10/20 END: 7/10/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 510939.9690 N, 2242937.5330 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
UNCONTROLLED FILL, 1" TO 3" TOPSOIL, SURFACE MATERIALS CONSISTED OF ORGANIC MATERIAL AND TRASH. SITE CLEARED BY TRACKHOE PRIOR TO RIG ARRIVAL.	1093.2																	
STIFF TO VERY STIFF, BROWN, **SANDY SILT**, TRACE SAND, CONTAINS ROOTHAIRS, DAMP	1092.2	1	6 12 17	44	89	SS-1	-	5	7	18	49	21	24	15	9	8	A-4a (7)	
		2																
		3																
		4	4 5 16	32	83	SS-2	-	-	-	-	-	-	-	-	-	14	A-4a (V)	
		5																
SANDSTONE, LIGHT BROWN, MODERATELY TO HIGHLY WEATHERED, WEAK TO MODERATELY STRONG, FINE TO MEDIUM GRAINED, VERY THIN TO THIN BEDDED, FRIABLE.	1087.2	6	8 21 22	65	78	SS-3	-	54	4	26	16	-	-	-	-	6	Rock (V)	
		7																
		8																
		9	30 35 26	92	94	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	
		10																
		11	50/5"	-	100	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		12																
		13																
		14	50/5"	-	60	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		15																
SHALE, GREY, MODERATELY TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO THIN BEDDED.	1077.2	16	17 20 24	66	78	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	21 21 30	77	94	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		20																
		21	50/5"	-	40	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		22																
		23																
		24	50/4"	-	100	SS-10	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		25																
		26	50/5"	-	60	SS-11	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		27																
		28																
		29	50/2"	-	100	SS-12	-	-	-	-	-	-	-	-	-	-	Rock (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 4329+57, 94' LT.	START: 7/10/20	END: 7/10/20	PG 2 OF 2	E3-003-0-20

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
SHALE, GREY, MODERATELY TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO THIN BEDDED. *(continued)*	1063.2	31	50/2"	-	100	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/2"	-	100	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	37 50/4"	-	80	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		38																
		39	36 50/5"	-	100	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40																
		41	50/3"	-	67	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50/5"	-	80	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/1"	-	100	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47																
		48																
		49	50/1"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1043.2	50 EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 4330+72, 89' LT.	EXPLORATION ID E3-004-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA / NQ2	CALIBRATION DATE: 4/26/18	ELEVATION: 1098.3 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/9/20 END: 7/9/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 511089.9690 N, 2242957.9500 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
UNCONTROLLED FILL, 1" TO 3" TOPSOIL, SURFACE MATERIALS CONSISTED OF ORGANIC MATERIAL AND TRASH. SITE CLEARED BY TRACKHOE PRIOR TO RIG ARRIVAL.	1098.3																	
STIFF TO VERY STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, TRACE SAND, CONTAINS ROOTHAIRS, DAMP	1097.3	1	6 17 16	50	61	SS-1	-	10	11	16	37	26	26	16	10	10	A-4a (6)	
		2																
		3																
		4	5 16 17	50	67	SS-2	-	-	-	-	-	-	-	-	-	9	A-4a (V)	
		5																
		6																
		7	5 11 12	35	83	SS-3	-	11	9	18	45	17	29	21	8	14	A-4a (5)	
		8																
VERY STIFF, GREYISH BROWN, **SILT**, DAMP	1089.8	9	7 39 50/4"	-	100	SS-4	-	4	6	12	58	20	29	21	8	10	A-4b (8)	
		10																
SHALE, GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.	1087.3	TR 11	17 50/5"	-	82	SS-5	-	-	-	-	-	-	-	-	-	9	Rock (V)	
		12																
		13																
		14	15 50/4"	-	100	SS-6	-	-	-	-	-	-	-	-	-	7	Rock (V)	
	1083.3	15			-	RC-1 NQ2-RC-1	-	-	-	-	-	-	-	-	-	-	Rock (V)	
SHALE, BROWN, DECOMPOSED WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED; RQD 0%, REC 41%.	1082.3	16			-	RC-2 NQ2-RC-2	-	-	-	-	-	-	-	-	-	-	Rock (V)	
SHALE, GREYISH BROWN, DECOMPOSED WEATHERED, VERY WEAK, FINE GRAINED, LAMINATED TO THIN BEDDED, ARGILLACEOUS; RQD 1%, REC 88%.		17																
		18																
		19																
		20																
		21																
		22																
	1075.3	23			-	RC-3 NQ2-RC-3	-	-	-	-	-	-	-	-	-	-	Rock (V)	
SHALE, GREYISH BROWN, DECOMPOSED TO HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, FINE GRAINED, THIN BEDDED; RQD 0%, REC 100%.		24																
		25																
	1072.3	26			-	RC-4 NQ2-RC-4	-	-	-	-	-	-	-	-	-	-	Rock (V)	
SHALE, GREYISH BROWN, DECOMPOSED TO HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, FINE GRAINED, THIN BEDDED; RQD 0%, REC 39%.		27																
		28																
		29																

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 4330+72, 89' LT.	START: 7/9/20	END: 7/9/20	PG 2 OF 2	E3-004-0-20

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
SHALE, GREYISH BROWN, DECOMPOSED TO HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, FINE GRAINED, THIN BEDDED; RQD 0%, REC 39%. *(continued)*	1068.3	31 32 33 34 35																
SHALE, GREY, MODERATELY TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.	1062.3	36	50/5"	-	100	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37 38 39	50/3"	-	100	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40 41	50/3"	-	67	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42 43 44	50/3"	-	67	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45 46	50/3"	-	67	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47 48 49	50/2"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1048.3	EOB 50																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 357+67, 147' LT.	EXPLORATION ID E3-005-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1123.0 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/15/20 END: 7/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 502235.3890 N, 2242798.3070 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
UNCONTROLLED FILL, 0" TO 2" TOPSOIL, SITE CLEARED WITH TRACKHOE BEFORE DRILL RIG ARRIVAL.	1123.0																	
VERY STIFF, DARK GREYISH BROWN, **SILTY CLAY**, DAMP	1122.0	1	5 9 18	41	78	SS-1	-	0	0	5	49	46	38	22	16	14	A-6b (10)	
	1119.5	2																
VERY STIFF, DARK GREY, **SILT AND CLAY**, DAMP		3																
		4	8 13 18	47	94	SS-2	-	0	5	7	51	37	38	25	13	15	A-6a (9)	
	1117.0	5																
SHALE, GREY, HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		TR 6																
		7	11 38 50/5"	-	82	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
		8																
		9	13 39 50/4"	-	81	SS-4	-	-	-	-	-	-	-	-	-	8	Rock (V)	
		10																
		11	17 12 50/4"	-	88	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		12																
		13																
		14	50/4"	-	100	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		15																
		16	41 50/4"	-	70	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	50/5"	-	60	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		20																
		21	50/5"	-	40	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		22																
		23																
		24	50/4"	-	50	SS-10	-	-	-	-	-	-	-	-	-	8	Rock (V)	
		25																
		26	50/3"	-	33	SS-11	-	-	-	-	-	-	-	-	-	9	Rock (V)	
		27																
		28																
		29	50/3"	-	33	SS-12	-	-	-	-	-	-	-	-	-	4	Rock (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 357+67, 147' LT.	START: 7/15/20	END: 7/15/20	PG 2 OF 2	E3-005-0-20

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
SHALE, GREY, HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED. *(continued)*	1093.0	31	50/2"	-	100	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/5"	-	60	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	50/4"	-	75	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		38																
		39	50/2"	-	50	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40																
		41	50/2"	-	50	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50\0"	-		SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/1"	-	100	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47																
		48																
		49	50/1"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1073.0	50 EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 361+02, 111' LT.	EXPLORATION ID E3-006-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1120.3 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/16/20 END: 7/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 502570.2400 N, 2242794.9520 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
SOD AND TOPSOIL, 0" TO 2" TOPSOIL, SITE CLEARED WITH TRACKHOE BEFORE DRILL RIG ARRIVAL.	1120.3																	
VERY STIFF, DARK GREYISH BROWN, **SILTY CLAY**, DAMP	1119.3	1	10 11 16	41	72	SS-1	-	1	6	8	40	45	38	21	17	16	A-6b (11)	
		2																
		3																
		4	13 14 17	47	94	SS-2	-	1	3	6	50	40	38	21	17	12	A-6b (11)	
		5																
	1114.3	TR 6																
SHALE, DARK GREY, DECOMPOSED WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		7	13 16 16	48	78	SS-3	-	-	-	-	-	-	-	-	-	12	Rock (V)	
	1111.8	8																
SHALE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK TO WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		9	50/5"	-	20	SS-4	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		10																
		11	4 22 50/4"	-	88	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1106.8	12																
SHALE, GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		13	39 50/3"	-	100	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		14																
		15																
		16	29 50/5"	-	82	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	50/4"	-	100	SS-8	-	-	-	-	-	-	-	-	-	11	Rock (V)	
		20																
		21	31 50/5"	-	91	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		22																
		23																
		24	50/5"	-	80	SS-10	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		25																
		26	50/4"	-	50	SS-11	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		27																
		28																
		29	50/5"	-	60	SS-12	-	-	-	-	-	-	-	-	-	-	Rock (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 361+02, 111' LT.	START: 7/16/20	END: 7/16/20	PG 2 OF 2	E3-006-0-20

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
SHALE, GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED. *(continued)*	1090.3	31	50/5"	-	100	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/5"	-	80	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	50/3"	-	67	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		38																
		39	50/5"	-	80	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40																
		41	50/3"	-	100	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50/2"	-	50	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/3"	-	100	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47 W 1072.7																
		48																
		49	50/3"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1070.3	50 EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:02 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 364+33, 89' LT.	EXPLORATION ID E3-007-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1122.7 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/16/20 END: 7/16/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 502906.2850 N, 2242768.0620 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1122.7	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
TOPSOIL, 0" TO 2" TOPSOIL, SITE CLEARED WITH TRACKHOE BEFORE DRILL RIG ARRIVAL.	1121.7																	
MEDIUM DENSE, BROWN, **SANDY SILT**, MOIST		1	1 9 7	24	67	SS-1	-	11	4	44	12	29	23	16	7	20	A-4a (1)	
	1119.2	2																
VERY DENSE, BROWN AND GREY, **SANDY SILT**, CONTAINS SHALE FRAGMENTS, WET		3																
		4	10 40 50/3"	-	100	SS-2	-	6	15	37	19	23	NP	NP	NP	41	A-4a (1)	
	1116.7	5																
SHALE, GREY TO DARK GREY, MODERATELY TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		TR 6	25 50/3"	-	78	SS-3	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		7																
		8																
		9	25 48 50/0"	-	83	SS-4	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		10																
		11																
		12	20 25 47	108	78	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		13																
		14	30 36 49	128	72	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		15																
		16	35 50/5"	-	100	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	31 50/3"	-	67	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		20																
		21	50/5"	-	80	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		22																
		23																
		24	43 50/5"	-	45	SS-10	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		25																
		26	50/4"	-	75	SS-11	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		27																
		28																
		29	50/4"	-	100	SS-12	-	-	-	-	-	-	-	-	-	-	Rock (V)	

PID: 102329	SFN:	PROJECT: INTERSTATE 76/77	STATION / OFFSET: 364+33, 89' LT.	START: 7/16/20	END: 7/16/20	PG 2 OF 2	E3-007-0-20

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
SHALE, GREY TO DARK GREY, MODERATELY TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED. *(continued)*	1092.7	31	50/3"	-	67	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/2"	-	100	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	50/2"	-	100	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		38																
		39	50/3"	-	100	SS-16	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		40																
		41	50/3"	-	100	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50/2"	-	100	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/5"	-	100	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47																
		48																
		49	50/2"	-	100	SS-20	-	-	-	-	-	-	-	-	-	-	Rock (V)	
	1072.7	50 EOB																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / BEAHR	DRILL RIG: '18 CME 55-TATV-265	STATION / OFFSET: 367+73, 80' LT.	EXPLORATION ID E3-008-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / MORGAL	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 4/26/18	ELEVATION: 1123.8 (MSL) EOB: 50.0 ft.	PAGE 1 OF 2
START: 7/15/20 END: 7/15/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 90*	COORD: 503245.1290 N, 2242741.9430 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
TOPSOIL, 4" TOPSOIL	1123.8																	
MEDIUM DENSE, DARK BROWNISH GREY, **SANDY SILT**, TRACE GRAVEL, CONTAINS SLAG, ROOT HAIRS, DAMP	1122.8	1	6 10 12	33	100	SS-1	-	18	10	20	33	19	27	17	10	13	A-4a (3)	
		2																
		3																
		4	7 9 10	29	100	SS-2	-	-	-	-	-	-	-	-	-	15	A-4a (V)	
		5																
		6																
		7	5 6 5	17	100	SS-3	-	3	7	37	30	23	21	14	7	13	A-4a (4)	
	1115.3	8																
MEDIUM DENSE, GREENISH BROWN AND GREY, **SILT AND CLAY**, SOME GRAVEL, TRACE SAND, DAMP		9	4 5 7	18	100	SS-4	-	-	-	-	-	-	-	-	-	12	A-6a (V)	
	1112.8	10																
SHALE, GREY TO DARK GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED.		TR 11	1 38 44	123	100	SS-5	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		12																
		13	50/3"	-	67	SS-6	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		14																
		15																
		16	7 11 13	36	50	SS-7	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		17																
		18																
		19	9 12 12	36	72	SS-8	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		20																
		21																
		22	10 27 40	101	61	SS-9	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		23																
		24	15 38 50/4"	-	88	SS-10	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		25																
		26																
		27	16 24 44	102	56	SS-11	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		28																
		29	50/2"	-	100	SS-12	-	-	-	-	-	-	-	-	-	-	Rock (V)	

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
SHALE, GREY TO DARK GREY, DECOMPOSED TO HIGHLY WEATHERED, WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED. *(continued)*	1093.8	31	50/3"	-	100	SS-13	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		32																
		33																
		34	50/1"	-	100	SS-14	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		35																
		36	50/2"	-	100	SS-15	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		37																
		W 1085.7 38																
		39	50/1"	-	100	SS-16	-	-	-	-	-	-	-	-	-	10	Rock (V)	
		40																
		41	50/2"	-	100	SS-17	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		42																
		43																
		44	50/3"	-	100	SS-18	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		45																
		46	50/4"	-	100	SS-19	-	-	-	-	-	-	-	-	-	-	Rock (V)	
		47																
		48																
SHALE, GREY, DECOMPOSED WEATHERED, VERY WEAK TO WEAK, FINE GRAINED, LAMINATED TO VERY THIN BEDDED, ARGILLACEOUS.	1075.3	49	50/3"	-	100	SS-20	-	-	-	-	-	-	-	-	-	15	Rock (V)	
	1073.8	EOB 50																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: TREMIED BENTONITE GROUT

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 6/24/20 END: 6/24/20

DRILLING FIRM / OPERATOR: DLZ-AD / REINHART
SAMPLING FIRM / LOGGER: DLZ / HUZINEC
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: 4314+13, 8' LT.
ALIGNMENT:
ELEVATION: 1065.0 (MSL) EOB: 9.2 ft.
COORD: 508995.6030 N, 2242835.2910 E

EXPLORATION ID P-001-0-20

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
	1065.0																	
PAVEMENT AND BASE, 4" ASPHALT, 9" CONCRETE	1063.9																	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, DAMP Note: sample taken from cuttings; spooned twice without any recovery.	1061.5	1 2 3	7 6 10	22	0	SS-1	-	8	25	37	15	15	16	17	NP	18	A-3a (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		TR 4 5	19 50/4"	-	90	SS-2	-	0	20	9	46	25	29	46	NP	4	Rock (V)	
		6 7 8	38 50/4"	-	90	SS-3	-	-	-	-	-	-	-	-	-	4	Rock (V)	
	1055.8	EOB 9	42 50/2"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4310+80, 38' RT.	EXPLORATION ID P-002-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1062.6 (MSL) EOB: 9.1 ft.	PAGE 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 509058.8080 N, 2242886.4910 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
	1062.6																	
PAVEMENT AND BASE, 4.5" ASPHALT, 8" CONCRETE	1061.6																	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, TRACE DARK BROWN AND GREY CLAY, MOIST TO WET		1	9															
		2	10 13	32	72	SS-1	-	9	42	17	27	5	15	NP	NP	10	A-3a (0)	
		3																
	1058.6	TR 4	23 50/5"	-	91	SS-2	-	0	12	11	54	23	28	21	7	5	Rock (V)	
CLAYSTONE, GREY, HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		5																
		6	36 50/2"	-	100	SS-3	-	-	-	-	-	-	-	-	-	5	Rock (V)	
		7																
		8																
	1053.5	EOB 9	42 50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4314+12, 32' LT.	EXPLORATION ID P-003-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1056.9 (MSL) EOB: 9.1 ft.	PAGE 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 509395.6030 N, 2242852.0760 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, 6.75" ASPHALT, 8.5" CONCRETE	1056.9																	
	1055.6																	
LOOSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE CLAY, MOIST TO WET	1055.1	TR	7 26 50	106	83	SS-1	-	19	56	13	2	10	NP	NP	NP	14	A-1-b (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.			31 50/1"	-	100	SS-2	-	0	36	16	28	20	28	19	9	4	Rock (V)	
			50/5"	-	60	SS-3	-	-	-	-	-	-	-	-	-	4	Rock (V)	
	1047.8	EOB	33 50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77
TYPE: ROADWAY
PID: 102329 SFN:
START: 6/24/20 END: 6/24/20

DRILLING FIRM / OPERATOR: DLZ-AD / REINHART
SAMPLING FIRM / LOGGER: DLZ / HUZINEC
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: 4314+82, 29' RT.
ALIGNMENT:
ELEVATION: 1056.0 (MSL) EOB: 8.9 ft.
COORD: 509458.8080 N, 2242913.5160 E

EXPLORATION ID P-004-0-20

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
PAVEMENT AND BASE, 5.75" ASPHALT, 8.5" CONCRETE	1056.0																	
	1054.7																	
DENSE, BROWN, **COARSE AND FINE SAND**, TRACE CLAY, DAMP	1054.3	TR	13 50	-	61	SS-1	-	10	41	21	26	2	18	NP	NP	11	A-3a (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.			48 50/1"	-	100	SS-2	-	0	36	15	33	16	26	19	7	4	Rock (V)	
			50/5"	-	100	SS-3	-	-	-	-	-	-	-	-	-	4	Rock (V)	
	1047.1	EOB	50/5"	-	60	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4317+80, 10' RT.	EXPLORATION ID P-005-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1055.0 (MSL) EOB: 8.6 ft.	PAGE 1 OF 1
START: 6/25/20 END: 6/25/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 509769.5520 N, 2242933.7280 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
	1055.0																	
PAVEMENT AND BASE, 5" ASPHALT, 9.25" CONCRETE	1053.8																	
DENSE, ORANGISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE CLAY AND GRAVEL, DAMP TO MOIST	1053.2	TR	10 10 50/4"	-	94	SS-1	-	9	47	29	13	2	19	18	1	14	A-1-b (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.			34 50/2"	-	100	SS-2	-	9	42	17	22	10	24	20	4	3	Rock (V)	
			50/5"	-	80	SS-3	-	-	-	-	-	-	-	-	-	5	Rock (V)	
	1046.4	EOB	50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	3	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4318+15, 35' LT.	EXPLORATION ID P-006-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1054.8 (MSL) EOB: 8.9 ft.	PAGE 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 509795.6030 N, 2242882.4650 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
	1054.8																	
PAVEMENT AND BASE, 4.75" ASPHALT, 9.25" CONCRETE	1053.6																	
LOOSE, BROWN, **SANDY SILT**, TRACE CLAY AND GRAVEL, DAMP	1053.0	TR	5 5 37	59	83	SS-1	- -	- 5	- 35	- 11	- 31	- 18	- 20	- 15	- 5	- 12	A-4a (3)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.			31 50/1"	-	100	SS-2	-	0	37	24	28	11	24	16	8	4	Rock (V)	
			50/5"	-	100	SS-3	-	-	-	-	-	-	-	-	-	5	Rock (V)	
	1045.9	EOB	50/5"	-	20	SS-4	-	-	-	-	-	-	-	-	-	5	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4321+13, 9' RT.	EXPLORATION ID P-007-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1058.0 (MSL) EOB: 9.1 ft.	PAGE 1 OF 1
START: 6/25/20 END: 6/25/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510089.5650 N, 2242956.9740 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
	1058.0																	
PAVEMENT AND BASE, 4" ASPHALT, 10.75" CONCRETE	1056.7	1																
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE CLAY, MOIST TO WET	1056.4	TR 2	4 8 12	28	78	SS-1	-	10	37	38	10	5	NP	NP	NP	18	A-3a (0)	
CLAYSTONE, DARK GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		3																
		4	13 50/2"	-	88	SS-2	-	0	17	11	49	23	28	21	7	6	Rock (V)	
		5																
		6	50/5"	-	80	SS-3	-	-	-	-	-	-	-	-	-	8	Rock (V)	
		7																
		8																
	1048.9	EOB 9	48 50/1"	-	57	SS-4	-	-	-	-	-	-	-	-	-	9	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4322+19, 8' LT.	EXPLORATION ID P-008-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1059.8 (MSL) EOB: 9.1 ft.	PAGE 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510195.6030 N, 2242955.5290 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
	1059.8																	
PAVEMENT AND BASE, 4" ASPHALT	1058.8																	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND**, TRACE CLAY, TIP OF SPOON CONTAINED BROWN A-7-6 W/ TRACE SAND, DAMP	1057.5	1	5															
		2	7	21	44	SS-1A	-	13	50	23	12	2	NP	NP	NP	9	A-1-b (0)	
			8		-	SS-1B	4.00	8	34	23	23	12	-	-	-	13	A-7-6 (V)	
SOFT, BROWN, **CLAY**, TRACE SAND, DAMP	1056.3	3																
		TR 4	11															
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.			14 32	64	39	SS-2	-	8	34	23	23	12	28	25	3	6	Rock (V)	
		5																
		6	39 50/1"	-	100	SS-3	-	-	-	-	-	-	-	-	-	5	Rock (V)	
		7																
		8																
	1050.7	EOB 9	47 50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4322+06, 137' LT.	EXPLORATION ID P-009-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1075.0 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510195.6030 N, 2242824.0670 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, 8.75" ASPHALT, 3" GRAVEL BASE	1075.0 1074.0	1																
LOOSE, GREY, **GRANULAR BASE** Note: sample taken from cuttings; spooned twice with little recovery.	1071.5	2 3	6 4 3	10	6	SS-1	-	-	-	-	-	-	-	-	-	9	A-1-a (V)	
VERY STIFF, GREY, **SILTY CLAY**, TRACE SAND AND GRAVEL, DAMP	1069.0	4 5	2 5 5	14	56	SS-2	2.25	4	24	30	30	12	37	20	17	19	A-6b (3)	
LOOSE, GREY AND BROWN, **COARSE AND FINE SAND**, SOME CLAY, TRACE GRAVEL, DAMP	1066.5	6 7	4 4 3	10	50	SS-3	-	0	13	63	19	5	22	NP	NP	11	A-3a (0)	
SOFT, GREY, **SILTY CLAY**, TRACE SAND AND GRAVEL, DAMP	1065.0	8 9 EOB 10	2 1 2	4	28	SS-4	-	-	-	-	-	-	-	-	-	9	A-6b (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4325+18, 35' RT.	EXPLORATION ID P-010-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1066.1 (MSL) EOB: 9.2 ft.	PAGE 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510489.5650 N, 2243027.2870 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1066.1	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, 3.25" ASPHALT, 9.5" CONCRETE	1065.0																	
LOOSE, BROWN, **COARSE AND FINE SAND**, TRACE CLAY AND GRAVEL, MOIST	1062.6	1 2 3	3 4 5	13	56	SS-1	-	0	45	33	17	5	15	NP	NP	12	A-3a (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		TR 4 5	19 50/5"	-	91	SS-2	-	10	39	22	23	6	25	22	3	5	Rock (V)	
		6 7 8	50/5"	-	100	SS-3	-	-	-	-	-	-	-	-	-	3	Rock (V)	
	1056.9	EOB 9	27 50/2"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4326+28, 12' LT.	EXPLORATION ID P-011-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1068.8 (MSL) EOB: 9.1 ft.	PAGE 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510595.6030 N, 2242987.9680 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1068.8	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" ASPHALT	1067.7																	
MEDIUM DENSE, GREY AND BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, DAMP	1065.3	1	5 6 8	20	44	SS-1	-	19	54	10	5	12	21	14	7	10	A-2-4 (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		2 3 TR 4	6 50/4"	-	100	SS-2	-	4	22	32	34	8	20	NP	NP	6	Rock (V)	
		5 6	23 50/1"	-	100	SS-3	-	-	-	-	-	-	-	-	-	5	Rock (V)	
	1059.7	7 8 EOB 9	30 50/1"	-	100	SS-4	-	-	-	-	-	-	-	-	-	6	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4326+01, 91' LT.	EXPLORATION ID P-012-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1069.9 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510595.6030 N, 2242899.0430 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1069.9	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, 5.25" ASPHALT, 8.5" CONCRETE, 4" SUBBASE	1068.4	1																
VERY STIFF, BROWN AND GREY, **SANDY SILT**, TRACE SAND AND GRAVEL, DAMP		2	3 6 6	17	72	SS-1	3.50	4	15	13	39	29	24	15	9	16	A-4a (7)	
		3																
		4	19 24 50/5"	-	6	SS-2	-	14	17	32	26	11	17	NP	NP	9	A-4a (0)	
	1063.9	5																
MEDIUM DENSE, BROWN AND GREY, **COARSE AND FINE SAND**, LITTLE CLAY AND GRAVEL, DAMP		6	10 13 15	39	50	SS-3	-	5	20	42	20	13	19	NP	NP	12	A-3a (0)	
	1061.4	7																
HARD, GREY, **CLAY**, TRACE SAND AND GRAVEL, DAMP looks similar to grey claystone from other borings, though blow counts are under 50.		8																
	1059.9	9	10 30 33	88	56	SS-4	-	-	-	-	-	-	-	-	-	6	A-7-6 (V)	
	EOB	10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4327+97, 48' LT.	EXPLORATION ID P-013-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1072.2 (MSL) EOB: 8.9 ft.	PAGE 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510771.1720 N, 2242976.1200 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1072.2	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, 2.25" ASPHALT, 8.75" CONCRETE, 4" SUBBASE	1070.9	1																
HARD, GREY, **SANDY SILT**, TRACE SAND AND GRAVEL, MOIST TO DAMP	1068.7	2	3 4 7	15	56	SS-1	4.00	0	19	30	40	11	24	16	8	14	A-4a (3)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		3 TR 4	31 50/1"	-	100	SS-2	-	0	32	23	35	10	28	17	11	6	Rock (V)	
		5 6	50/5"	-	100	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
	1063.3	7 8 EOB	50/5"	-	100	SS-4	-	-	-	-	-	-	-	-	-	7	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 4329+22, 31' RT.	EXPLORATION ID P-014-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1075.0 (MSL) EOB: 9.2 ft.	PAGE 1 OF 1
START: 6/24/20 END: 6/24/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 510889.5650 N, 2243060.7870 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
	1075.0																	
PAVEMENT AND BASE, 3.5" ASPHALT, 8.5" CONCRETE	1073.9																	
DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, TRACE TO LITTLE CLAY, DAMP	1071.5	1	6 7 29	50	78	SS-1	-	27	15	31	13	14	NP	NP	NP	12	A-2-4 (0)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		2																
		3																
		TR 4	7 50/5"	-	82	SS-2	-	1	17	28	41	13	28	22	6	7	Rock (V)	
		5																
		6	50/5"	-	80	SS-3	-	-	-	-	-	-	-	-	-	5	Rock (V)	
		7																
		8																
	1065.8	EOB 9	27 50/2"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 327+44, 9' RT.	EXPLORATION ID P-015-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1077.7 (MSL) EOB: 8.75 ft.	PAGE 1 OF 1
START: 6/30/20 END: 6/30/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 511289.5650 N, 2243082.1500 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1077.7	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, 3.75" ASPHALT, 8.5" CONCRETE, 3" GRAVEL BASE	1076.4	TR																
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.		1	23 50/4"	-	90	SS-1	-	0	12	48	29	11	24	19	5	4	Rock (V)	
		2																
		3																
		4	50/3"	-	100	SS-2	-	11	27	25	27	10	-	-	-	5	Rock (V)	
		5																
		6	50/3"	-	33	SS-3	-	-	-	-	-	-	-	-	-	4	Rock (V)	
		7																
	1068.9	8 EOB	50/3"	-	100	SS-4	-	-	-	-	-	-	-	-	-	4	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 328+48, 42' LT.	EXPLORATION ID P-016-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1076.9 (MSL) EOB: 8.9 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 511395.6030 N, 2243026.1600 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" ASPHALT, 9.5" CONCRETE, 5" SUBBASE	1076.9																	
HARD, GREY, **SANDY SILT**, TRACE SAND, DAMP	1075.3	1	6 10 12	31	56	SS-1	4.00	2	6	24	44	22	22	17	5	10	A-4a (6)	
	1073.4	2 3																
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED TO VERY THIN BEDDED, ARENACEOUS.		TR 4	23 50/5"	-	82	SS-2	-	0	4	10	65	21	25	22	3	6	Rock (V)	
		5 6	16 50/5"	-	82	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
	1068.0	7 8 EOB	50/5"	-	100	SS-4	-	-	-	-	-	-	-	-	-	5	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 331+43, 8' RT.	EXPLORATION ID P-017-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1070.3 (MSL) EOB: 9.25 ft.	PAGE 1 OF 1
START: 6/30/20 END: 6/30/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 511689.5650 N, 2243082.5290 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1070.3	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, 4.75" ASPHALT, 8.25" CONCRETE, 4" GRAVEL BASE	1068.9	1																
HARD, BROWN, **SILT**, TRACE SAND AND GRAVEL, DAMP	1066.8	2	10 13 18	43	78	SS-1	4.00	0	7	7	52	34	25	18	7	13	A-4b (8)	
		3																
HARD, BROWN, **SILT AND CLAY**, TRACE SAND AND GRAVEL, DAMP	1064.0	4	16 47 50/2"	-	71	SS-2	4.00	0	25	11	39	25	27	14	13	11	A-6a (7)	
		5																
		TR 6	17 50/5"	-	100	SS-3	-	-	-	-	-	-	-	-	-	8	Rock (V)	
CLAYSTONE, GREY, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK, VERY FINE GRAINED, LAMINATED, ARENACEOUS.	1061.0	7																
		8																
		EOB 9	29 50/3"	-	100	SS-4	-	-	-	-	-	-	-	-	-	6	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 332+50, 11' LT.	EXPLORATION ID P-018-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1067.0 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/23/20 END: 6/23/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 511795.6030 N, 2243067.1070 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" ASPHALT, 4.5" CONCRETE, 4" GRAVEL BASE (NOTE: CONCRETE IS BROKEN).	1067.0																	
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND**, TRACE CLAY, DAMP	1065.7	1	3 3 5	11	56	SS-1	3.25	23	54	10	4	9	NP	NP	NP	8	A-1-b (0)	
MEDIUM DENSE, BROWN, **GRAVEL AND/OR STONE FRAGMENTS WITH SAND AND SILT**, LITTLE CLAY, DAMP	1063.5	2 3 4	3 5 6	15	72	SS-2	-	21	15	32	19	13	17	15	2	11	A-2-4 (0)	
VERY STIFF, BROWN, **SANDY SILT**, DAMP	1061.0	5 6 7	3 13 17	42	67	SS-3	-	2	11	26	26	35	21	14	7	11	A-4a (5)	
SHALE, BROWN, HIGHLY WEATHERED, VERY WEAK TO WEAK, VERY FINE GRAINED, VERY THIN BEDDED, ARENACEOUS.	1058.5 TR	8 9	11 24 24	67	72	SS-4	-	-	-	-	-	-	-	-	-	9	Rock (V)	
	1057.0 EOB	10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 334+68, 61' RT.	EXPLORATION ID P-019-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1060.5 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/25/20 END: 6/25/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 512015.1450 N, 2243133.3590 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, 13.5" ASPHALT, 5" GRAVEL BASE	1060.5																	
	1059.0	1																
MEDIUM DENSE, BROWN, **SANDY SILT**, TRACE CLAY, DAMP		2	10 11 8	27	50	SS-1	-	19	24	20	21	16	NP	NP	NP	8	A-4a (0)	
		3																
		4	4 3 3	8	44	SS-2	1.25	0	25	29	30	16	21	16	5	12	A-4a (2)	
	1054.5	5																
LOOSE, BROWN, **COARSE AND FINE SAND**, TRACE GRAVEL, DAMP		6	4 2 2	6	39	SS-3	-	5	24	36	23	12	20	NP	NP	11	A-3a (0)	
	1052.0	7																
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, LITTLE CLAY, DAMP		8																
	1050.5	9	3 3 2	7	11	SS-4	-	-	-	-	-	-	-	-	-	13	A-2-4 (V)	
EOB		10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 336+52, 50' LT.	EXPLORATION ID P-020-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1056.0 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 512195.6030 N, 2243013.5430 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, 11.5" ASPHALT, 6" GRAVEL BASE	1056.0																	
MEDIUM DENSE, BROWN, **SANDY SILT**, DAMP	1054.5	1	17 11 10	29	50	SS-1	-	43	8	19	18	12	-	-	-	11	A-4a (V)	
LOOSE TO MEDIUM DENSE, ORANGISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, TRACE CLAY, DAMP	1052.5	2																
STIFF, BROWN, **SILT**, DAMP	1050.0	3																
LOOSE, ORANGISH BROWN, **SANDY SILT**, TRACE CLAY, DAMP	1047.5	4	7 5 5	14	11	SS-2	-	-	-	-	-	-	-	-	-	4	A-2-4 (V)	
	1046.0	5																
	EOB	6	6 5 5	14	56	SS-3	-	0	10	8	55	27	28	20	8	11	A-4b (8)	
		7																
		8																
		9	4 4 5	13	67	SS-4	-	0	14	48	31	7	NP	NP	NP	15	A-4a (1)	
		10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 340+04, 43' LT.	EXPLORATION ID P-022-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1048.3 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 512547.3800 N, 2243020.5430 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, 13.75" ASPHALT, 5" GRAVEL BASE	1048.3																	
MEDIUM DENSE, BROWN, **SILTY SAND**, TRACE GRAVEL, @9.9' TIP OF SPOON CONTAINS BROWN CLAY, DAMP	1046.7	1	14 12 14	36	56	SS-1	-	9	12	32	28	19	18	15	3	13	A-4a (2)	
		2																
		3																
		4	11 12 13	35	72	SS-2	-	5	8	32	39	16	17	15	2	11	A-4a (4)	
		5																
		6	6 15 17	45	78	SS-3	-	0	15	41	32	12	16	14	2	10	A-4a (2)	
		7																
		8																
		9	3 6 5	15	72	SS-4	-	7	10	41	28	14	15	15	NP	11	A-4a (1)	
	1038.3	EOB 10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 344+04, 55' LT.	EXPLORATION ID P-024-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1044.9 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 512947.3800 N, 2242995.1570 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, 12" ASPHALT, 5" GRAVEL BASE	1044.9																	
	1043.5																	
MEDIUM DENSE, BROWN, **SANDY SILT**, CONTAINS ROCK FRAGMENTS, DAMP		1	14 10 12	31	44	SS-1	-	0	17	45	28	10	18	17	1	9	A-4a (1)	
	1041.4	2																
MEDIUM DENSE, ORANGISH BROWN, **SILT**, DAMP		3	9 13 15	39	72	SS-2	-	1	4	16	56	23	21	18	3	13	A-4b (8)	
	1038.9	4																
MEDIUM DENSE, BROWN, **SANDY SILT**, CONTAINS ROCK FRAGMENTS, DAMP		5	4 6 21	38	72	SS-3	-	13	8	33	28	18	16	15	1	11	A-4a (2)	
	1036.4	6																
MEDIUM DENSE, LIGHT BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, DAMP		7	4 13 9	31	72	SS-4	-	20	10	56	11	3	NP	NP	NP	5	A-3a (0)	
	1034.9	8																
EOB		9																
		10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 347+84, 59' RT.	EXPLORATION ID P-025-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1042.7 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/25/20 END: 6/25/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 513322.2130 N, 2243106.1760 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, 11.75" ASPHALT, 5" GRAVEL BASE	1042.7																	
	1041.3	1	24 14 12	36	50	SS-1	-	17	30	32	15	6	NP	NP	NP	7	A-3a (0)	
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, TRACE TO LITTLE GRAVEL, @3.5-5.5': LOOSE TO MEDIUM DENSITY, TRACE CLAY AS WELL, DAMP		2																
		3																
		4	8 5 5	14	44	SS-2	-	10	25	35	22	8	14	NP	NP	9	A-3a (0)	
	1036.7	5																
LOOSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, TRACE TO LITTLE CLAY, DAMP TO MOIST		6	2 3 2	7	17	SS-3	-	-	-	-	-	-	-	-	-	7	A-2-4 (V)	
		7																
		8																
		9	2 2 2	6	17	SS-4	-	-	-	-	-	-	-	-	-	9	A-2-4 (V)	
	1032.7	EOB 10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 351+75, 80' RT.	EXPLORATION ID P-027-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1039.1 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/30/20 END: 6/30/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 513722.2130 N, 2243120.1970 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1039.1	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, 12.25" ASPHALT, 3.75" GRAVEL BASE	1037.8	1																
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, SOME CLAY, TRACE TO L ITTLE GRAVEL, DAMP	1035.6	2	9 12 13	35	50	SS-1	-	33	20	17	15	15	-	-	-	11	A-3a (V)	
MEDIUM DENSE, GREY, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, DAMP	1034.8	3																
STIFF, BROWN, **SILTY CLAY**, TRACE TO LITTLE SAND, TRACE TO LITTLE GRAVEL, DAMP		4				SS-2A	-	52	17	19	9	3	-	-	-	5	A-2-4 (V)	
		5	11 7 7	20	44 -	SS-2B	1.75	-	-	-	-	-	-	-	-	12	A-6b (V)	
		6																
		7	5 5 6	15	44	SS-3	2.25	3	14	33	27	23	25	15	10	14	A-6b (V)	
		8																
		9	5 4 3	10	56	SS-4	3.75	-	-	-	-	-	-	-	-	14	A-6b (V)	
	1029.1	EOB 10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 352+04, 72' LT.	EXPLORATION ID P-028-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1039.3 (MSL) EOB: 8.7 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 513747.3800 N, 2242961.4840 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, 13.75" ASPHALT, 4" GRAVEL BASE	1039.3																	
DENSE, BROWN, **COARSE AND FINE SAND**, TRACE CLAY, TRACE GRAVEL, DAMP	1037.6	1	17 17 17	47	61	SS-1	-	27	16	28	17	12	NP	NP	NP	11	A-3a (V)	
STIFF, BROWN, **SANDY SILT**, TRACE GRAVEL, DAMP	1035.8	2 3 4	2 3 4	10	56	SS-2	1.25	4	19	37	25	15	20	16	4	14	A-4a (1)	
	1030.8	6 7 8	4 6 50/5"	-	76	SS-3	4.00	0	17	24	35	24	22	15	7	13	A-4a (5)	
SANDSTONE, ORANGISH BROWN, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK TO WEAK, FINE GRAINED, VERY THIN BEDDED.	1030.6	TR	50/2"	-	100	SS-4	-	-	-	-	-	-	-	-	-	5	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:03 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 354+06, 85' LT.	EXPLORATION ID P-029-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1038.0 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 513949.7200 N, 2242949.4840 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, 13" ASPHALT, 5" GRAVEL BASE	1038.0																	
	1036.5	1																
MEDIUM DENSE, BROWN, **COARSE AND FINE SAND**, DAMP		2	15 12 12	33	56	SS-1	-	8	3	58	15	16	NP	NP	NP	10	A-3a (0)	
	1034.5	3																
HARD, GREY, **SANDY SILT**, TRACE GRAVEL, DAMP		4	7 9 15	33	39	SS-2	4.00	9	7	24	34	26	23	16	7	11	A-4a (5)	
	1032.0	5																
MEDIUM DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, TRACE CLAY, DAMP		6	4 6 8	20	44	SS-3	-	32	7	28	17	16	19	16	3	11	A-2-4 (0)	
	1029.5	7																
DENSE TO VERY DENSE, BROWN AND GREY, **COARSE AND FINE SAND**, TRACE GRAVEL, SAMPLE IS MOTTLED, DAMP	1028.0	8																
	EOB	9	5 27 24	71	56	SS-4	-	2	2	61	18	17	17	16	1	9	A-3a (0)	
		10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 355+21, 111' RT.
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1033.1 (MSL) EOB: 8.9 ft.
START: 6/30/20 END: 6/30/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 514066.9780 N, 2243137.8480 E

EXPLORATION ID P-030-0-20

PAGE 1 OF 1

MATERIAL DESCRIPTION AND NOTES	ELEV.	DEPTHS	SPT/ RQD	N_{60}	REC (%)	SAMPLE ID	HP (tsf)	GR	CS	FS	SI	CL	LL	PL	PI	WC	ODOT CLASS (GI)	HOLE SEALED
PAVEMENT AND BASE, 13.25" ASPHALT, 4" GRAVEL BASE	1033.1																	
MEDIUM DENSE, GREYISH BROWN, **COARSE AND FINE SAND**, LITTLE GRAVEL, TRACE CLAY, DAMP	1031.7	1	12 11 9	28	44	SS-1	-	48	42	3	5	2	-	-	-	8	A-3a (V)	
MEDIUM DENSE, BROWN, **SANDY SILT**, TRACE CLAY, DAMP	1029.6	2																
VERY STIFF TO HARD, BROWN, **CLAY**, TRACE SAND AND GRAVEL, DAMP	1029.3	3																
		4	6		-	SS-2A	-	0	26	33	34	7	20	18	2	10	A-4a (1)	
		5	6 15	29	33	SS-2B	4.00	-	-	-	-	-	-	-	-	13	A-7-6 (V)	
SANDSTONE, BROWN, HIGHLY WEATHERED, WEAK TO MODERATELY STRONG, MEDIUM GRAINED, VERY THIN TO THIN BEDDED, @8.5-8.9': ALSO PORTIONS OF LIGHT GREY TO GREY SANDSTONE, FRIABLE, SAME CHARACTERISTICS OTHERWISE.	1027.1	6 TR	50/5"	-	20	SS-3	-	-	-	-	-	-	-	-	-	6	Rock (V)	
	1024.2	7																
		8 EOB	50/5"	-	20	SS-4	-	-	-	-	-	-	-	-	-	6	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

STANDARD ODOT SOIL BORING LOG (8.5 X 11) - OH DOT.GDT - 8/27/20 10:04 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-25-2020).GPJ

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 360+05, 53' LT.	EXPLORATION ID P-032-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1034.6 (MSL) EOB: 8.7 ft.	PAGE 1 OF 1
START: 6/22/20 END: 6/22/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 514547.3800 N, 2242971.2730 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, 12.75" ASPHALT, 4" GRAVEL BASE	1034.6																	
VERY DENSE, BROWN, **COARSE AND FINE SAND**, CONTAINS ROCK FRAGMENTS, DAMP	1033.2	1	11 42 29	99	61	SS-1	-	15	2	56	13	14	NP	NP	NP	9	A-3a (0)	
		2																
		3																
		4	6 50/2"	-	100	SS-2	1.75	0	16	49	20	15	20	17	3	12	A-3a (0)	
		5																
VERY DENSE, BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, DAMP	1028.6	6	50/5"	-	100	SS-3	-	-	-	-	-	-	-	-	-	9	A-2-4 (V)	
		7																
	1026.1	8																
SANDSTONE, BROWN, DECOMPOSED TO HIGHLY WEATHERED, VERY WEAK TO WEAK, FINE GRAINED, VERY THIN BEDDED.	1025.9	TR3	50/2"	-	100	SS-4	-	-	-	-	-	-	-	-	-	8	Rock (V)	

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

PROJECT: INTERSTATE 76/77	DRILLING FIRM / OPERATOR: DLZ-AD / REINHART	DRILL RIG: '19 CME 75-079-797	STATION / OFFSET: 360+37, 139' RT.	EXPLORATION ID P-033-0-20
TYPE: ROADWAY	SAMPLING FIRM / LOGGER: DLZ / HUZINEC	HAMMER: CME AUTOMATIC	ALIGNMENT:	
PID: 102329 SFN:	DRILLING METHOD: 3.25" HSA	CALIBRATION DATE: 8/15/19	ELEVATION: 1045.3 (MSL) EOB: 10.0 ft.	PAGE 1 OF 1
START: 6/30/20 END: 6/30/20	SAMPLING METHOD: SPT	ENERGY RATIO (%): 83.7	COORD: 514584.6860 N, 2243163.7210 E	

MATERIAL DESCRIPTION AND NOTES	ELEV. 1045.3	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, 9" CONCRETE , 7" GRAVEL BASE	1044.0	1																
DENSE, GREY, **SANDY SILT**, DAMP	1041.8	2	18 26 19	63	39	SS-1	-	0	27	25	38	10	18	NP	NP	8	A-4a (3)	
VERY STIFF, BROWN AND GREY, **SILT AND CLAY**, TRACE SAND AND GRAVEL, @6-7.4': LITTLE SAND AND GRAVEL, DAMP	1038.0	3 4 5	6 5 6	15	44	SS-2	3.25	0	7	18	49	26	27	16	11	16	A-6a (8)	
MEDIUM DENSE, ORANGISH BROWN, **GRAVEL AND STONE FRAGMENTS WITH SAND AND SILT**, DAMP	1036.8	6 7	5 9 10	27	56	SS-3A	3.00	-	-	-	-	-	-	-	-	16	A-6a (V)	
					-	SS-3B	-	-	-	-	-	-	-	-	-	10	A-2-4 (V)	
HARD, BROWN, **SILT AND CLAY**, TRACE SAND AND GRAVEL, DAMP	1035.3	8 9	9 6 10	22	44	SS-4	4.00	-	-	-	-	-	-	-	-	16	A-6a (V)	
		EOB 10																

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED ASPHALT PATCH; BACKFILLED WITH AUGER CUTTINGS

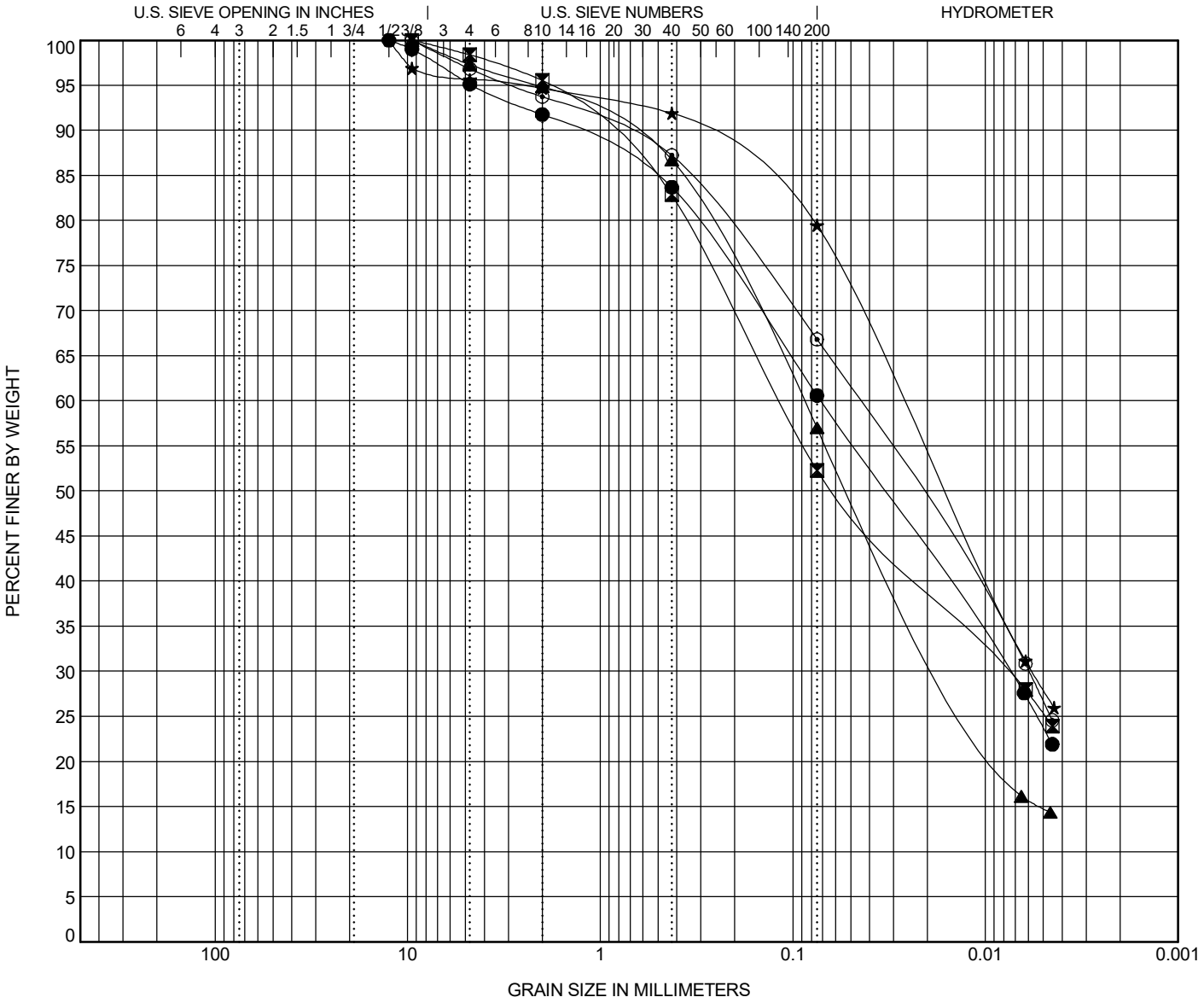
GRAIN SIZE REPORTS

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
●	B2-001-0-20	1.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**25**	**17**	**8**
⊠	B2-001-0-20	8.5	**A-4a ~ SANDY LEAN CLAY(CL)**	**24**	**14**	**10**
▲	B2-001-0-20	13.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**22**	**16**	**6**
★	B2-001-0-20	16.0	**A-6a ~ LEAN CLAY with SAND(CL)**	**30**	**18**	**12**
⊙	B2-001-0-20	18.5	**A-6a ~ SANDY LEAN CLAY(CL)**	**29**	**18**	**11**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B2-001-0-20	1.0	**1.426**	**0.034**	**0.008**		**8**	**8**	**23**	**37**	**24**		
⊠	B2-001-0-20	8.5	**1.017**	**0.059**	**0.008**		**4**	**13**	**31**	**27**	**25**		
▲	B2-001-0-20	13.5	**0.794**	**0.049**	**0.015**		**5**	**8**	**30**	**42**	**15**		
★	B2-001-0-20	16.0	**0.326**	**0.016**	**0.006**		**6**	**3**	**12**	**51**	**28**		
⊙	B2-001-0-20	18.5	**0.821**	**0.023**	**0.006**		**6**	**7**	**20**	**40**	**27**		

GRAIN SIZE DISTRIBUTION

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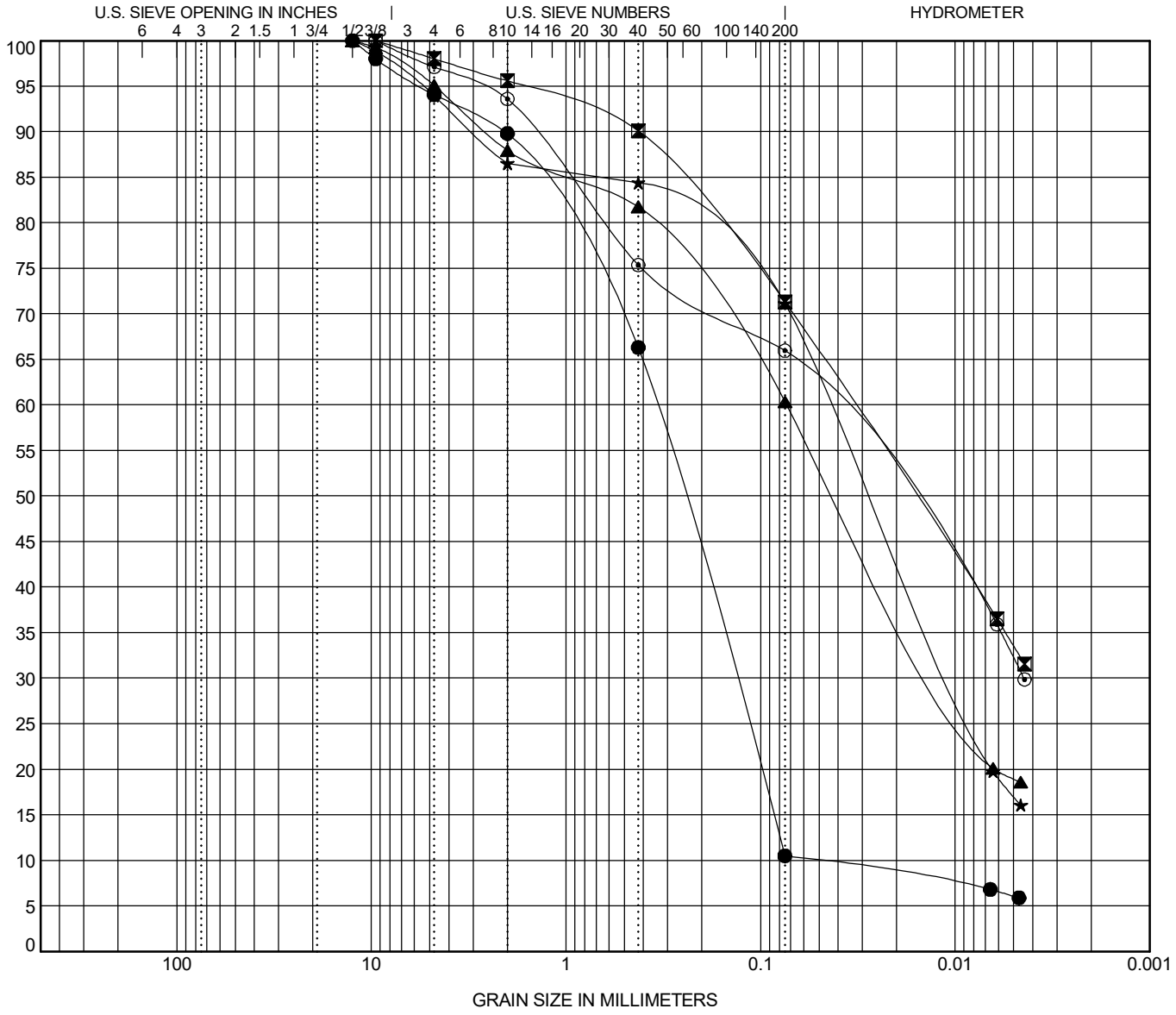
OFFICE OF GEOTECHNICAL ENGINEERING

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
●	B2-001-0-20	31.0	~			
⊠	E3-001-0-20	1.0	A-6a ~ LEAN CLAY with SAND(CL)	27	16	11
▲	E3-001-0-20	3.5	A-4a ~ SANDY SILTY CLAY(CL-ML)	26	20	6
★	E3-001-0-20	6.0	A-4b ~ SILTY CLAY with SAND(CL-ML)	28	22	6
⊙	E3-002-0-20	1.0	A-6a ~ SANDY LEAN CLAY(CL)	30	17	13

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	B2-001-0-20	31.0	2.081	0.256	0.138	0.055	11	23	56	4	6	0.99	6.39
⊠	E3-001-0-20	1.0	0.421	0.016			5	5	19	38	33		
▲	E3-001-0-20	3.5	2.566	0.04	0.012		13	6	21	41	19		
★	E3-001-0-20	6.0	2.996	0.027	0.01		14	2	13	54	17		
⊙	E3-002-0-20	1.0	1.474	0.02	0.004		7	18	9	34	32		

GRAIN SIZE DISTRIBUTION

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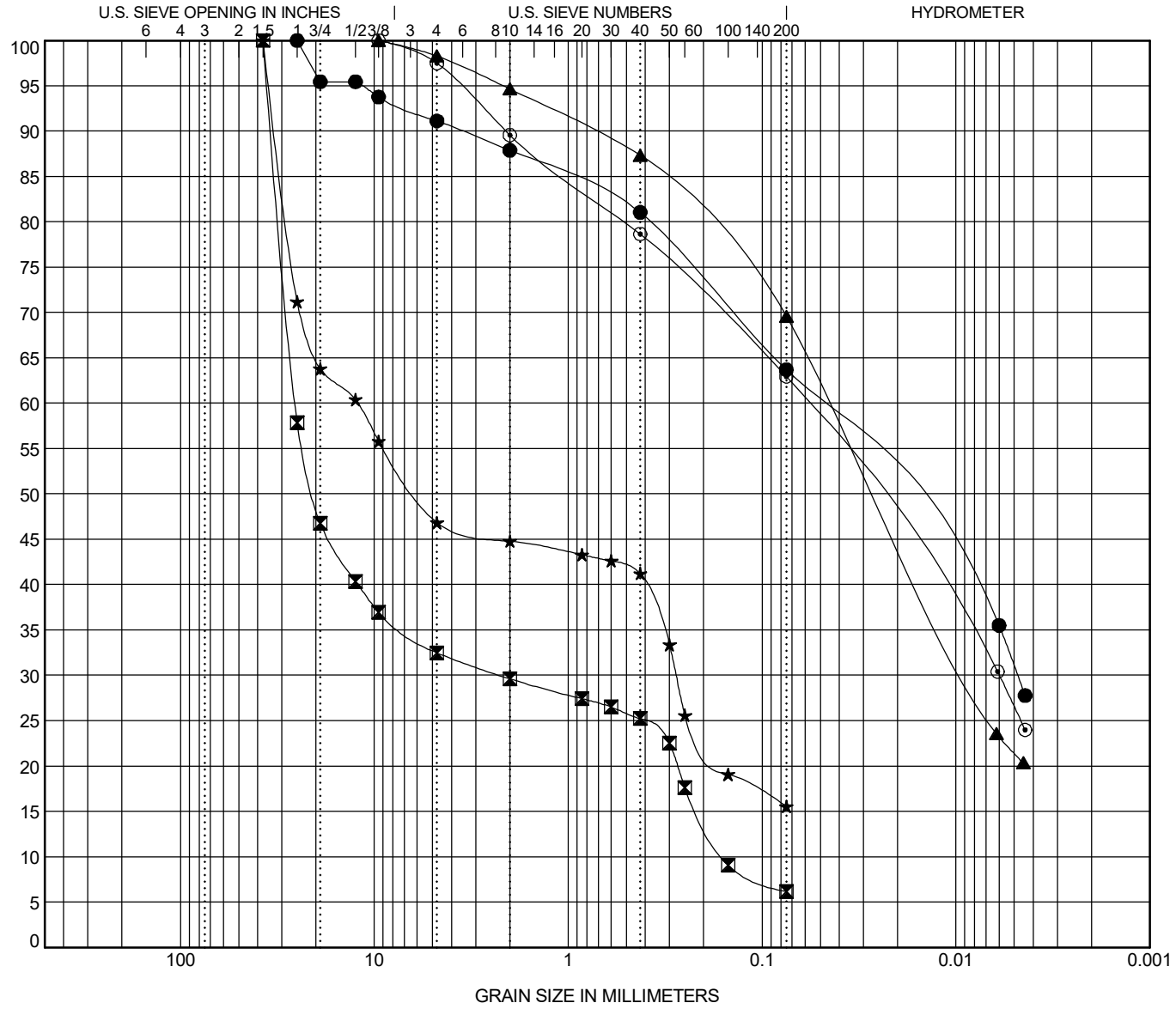
OGE NUMBER SUM-076/077-08.42/09.74 **PROJECT TYPE** ROADWAY



COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	E3-002-0-20	3.5	**A-6a ~ SANDY LEAN CLAY(CL)**	**29**	**17**	**12**
⊠	E3-002-0-20	8.5	**~**			
▲	E3-003-0-20	1.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**24**	**15**	**9**
★	E3-003-0-20	6.0	**~**			
⊙	E3-004-0-20	1.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**26**	**16**	**10**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	E3-002-0-20	3.5	**3.514**	**0.022**	**0.005**		**12**	**7**	**17**	**33**	**31**		
⊠	E3-002-0-20	8.5	**34.061**	**20.583**	**2.258**	**0.159**	**71**	**4**	**19**	**6**		**1.26**	**160.73**
▲	E3-003-0-20	1.0	**0.746**	**0.026**	**0.009**		**5**	**7**	**18**	**49**	**21**		
★	E3-003-0-20	6.0	**32.575**	**6.068**	**0.277**		**54**	**4**	**26**	**16**			
⊙	E3-004-0-20	1.0	**2.097**	**0.028**	**0.006**		**10**	**11**	**16**	**37**	**26**		

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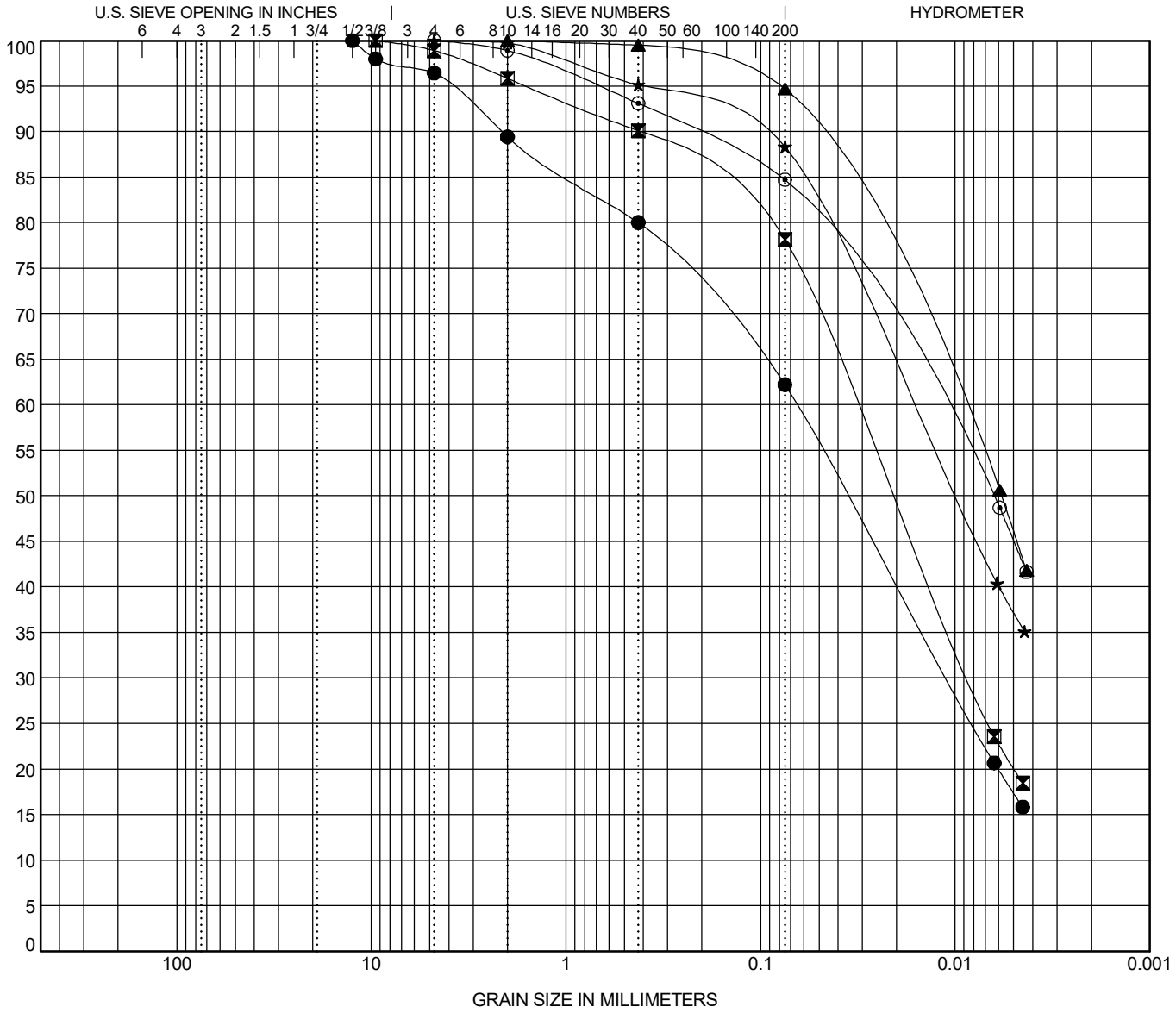

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	E3-004-0-20	6.0	**A-4a ~ SANDY LEAN CLAY(CL)**	29	21	8
⊠	E3-004-0-20	8.5	**A-4b ~ LEAN CLAY with SAND(CL)**	29	21	8
▲	E3-005-0-20	1.0	**A-6b ~ LEAN CLAY(CL)**	38	22	16
★	E3-005-0-20	3.5	**A-6a ~ SILT(ML)**	38	25	13
⊙	E3-006-0-20	1.0	**A-6b ~ LEAN CLAY with SAND(CL)**	38	21	17

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	E3-004-0-20	6.0	2.144	0.036	0.011		11	9	18	45	17		
⊠	E3-004-0-20	8.5	0.418	0.021	0.008		4	6	12	58	20		
▲	E3-005-0-20	1.0	0.057	0.006			0	0	5	49	46		
★	E3-005-0-20	3.5	0.114	0.01			0	5	7	51	37		
⊙	E3-006-0-20	1.0	0.223	0.006			1	6	8	40	45		

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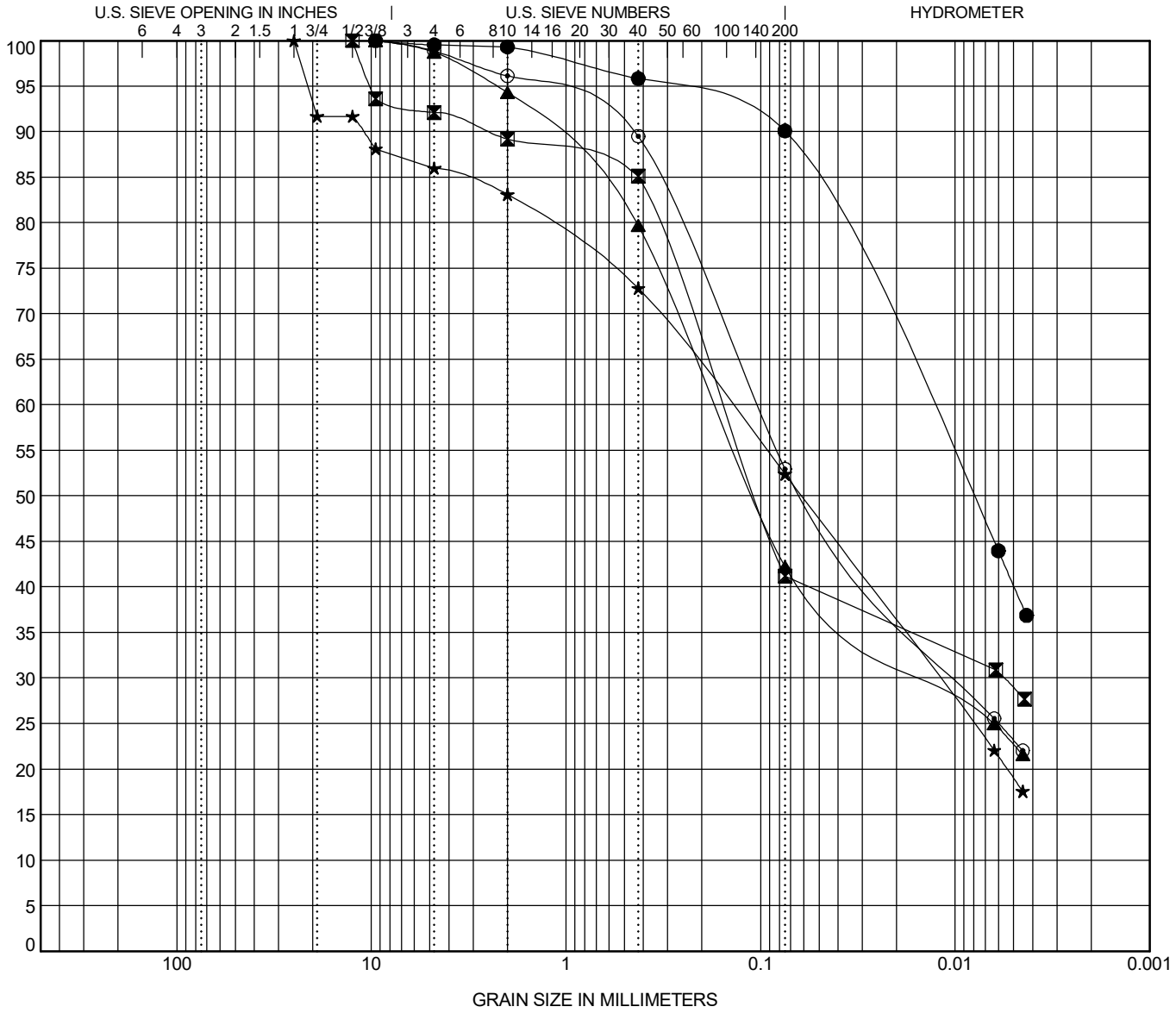

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	E3-006-0-20	3.5	**A-6b ~ LEAN CLAY(CL)**	**38**	**21**	**17**
⊠	E3-007-0-20	1.0	**A-4a ~ SILTY, CLAYEY SAND(SC-SM)**	**23**	**16**	**7**
▲	E3-007-0-20	3.5	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
★	E3-008-0-20	1.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**27**	**17**	**10**
⊙	E3-008-0-20	6.0	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**21**	**14**	**7**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	E3-006-0-20	3.5	**0.075**	**0.008**			**1**	**3**	**6**	**50**	**40**		
⊠	E3-007-0-20	1.0	**2.544**	**0.106**	**0.006**		**11**	**4**	**44**	**12**	**29**		
▲	E3-007-0-20	3.5	**1.266**	**0.108**	**0.013**		**6**	**15**	**37**	**19**	**23**		
★	E3-008-0-20	1.0	**10.978**	**0.062**	**0.012**		**18**	**10**	**20**	**33**	**19**		
⊙	E3-008-0-20	6.0	**0.477**	**0.057**	**0.009**		**3**	**7**	**37**	**30**	**23**		

GRAIN SIZE DISTRIBUTION

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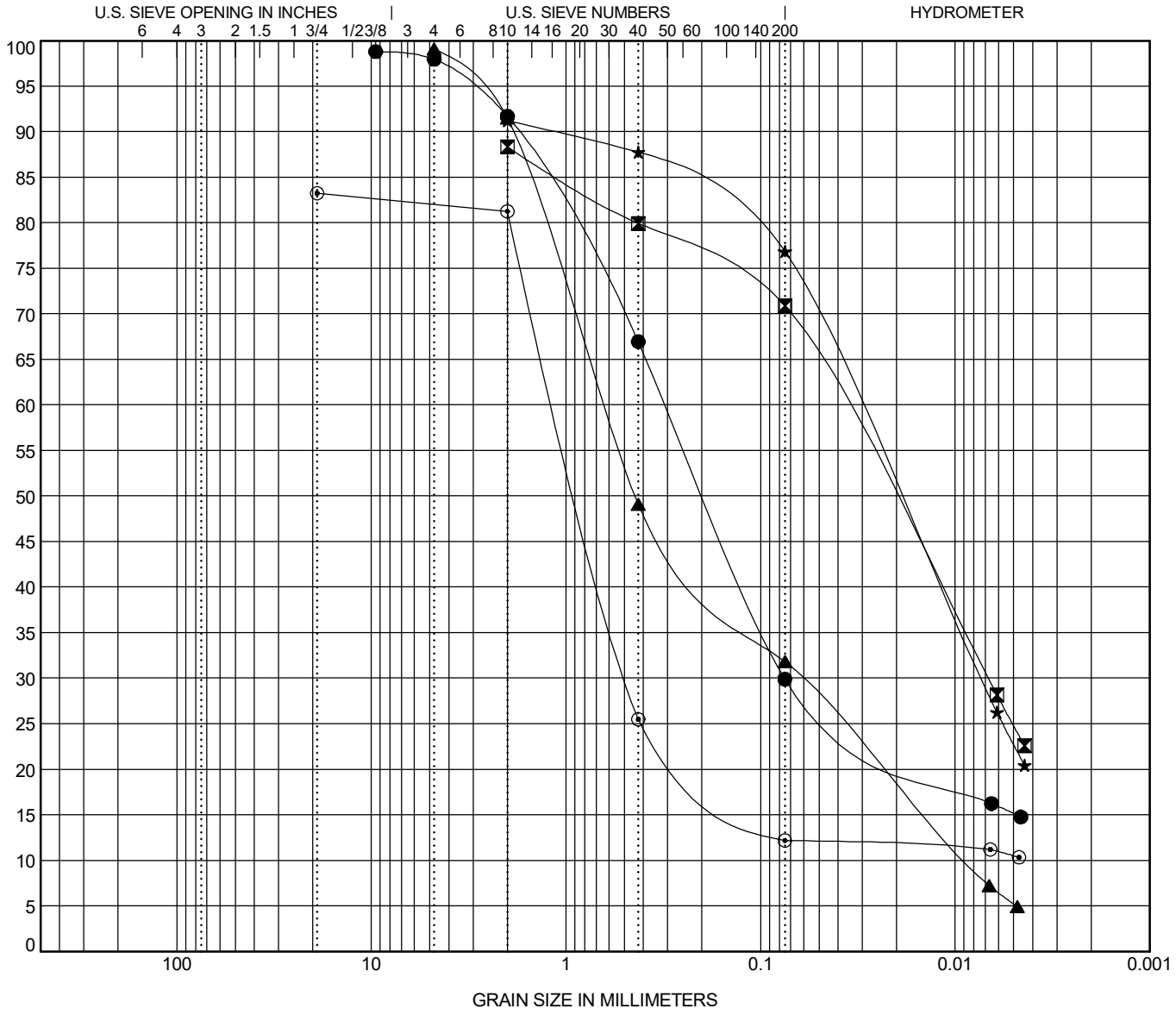
OFFICE OF GEOTECHNICAL ENGINEERING

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
●	P-001-0-20	1.1	**A-3a ~ SILTY SAND(SM)**	**16**	**17**	**NP**
⊠	P-001-0-20	3.5	**A-4a ~ SILT with SAND(ML)**	**29**	**46**	**NP**
▲	P-002-0-20	1.0	**A-3a ~ SILTY SAND(SM)**	**15**	**NP**	**NP**
★	P-002-0-20	3.5	**A-4b ~ SILTY CLAY with SAND(CL-ML)**	**28**	**21**	**7**
⊙	P-003-0-20	1.3	**A-1-b ~ SILTY SAND with GRAVEL(SM)**	**NP**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-001-0-20	1.1	**1.798**	**0.192**	**0.075**		**8**	**25**	**37**	**15**	**15**		
⊠	P-001-0-20	3.5		**0.022**	**0.007**		**0**	**20**	**9**	**46**	**25**		
▲	P-002-0-20	1.0	**1.894**	**0.439**	**0.063**	**0.009**	**9**	**42**	**17**	**27**	**5**	**0.71**	**71.88**
★	P-002-0-20	3.5	**1.162**	**0.02**	**0.007**		**0**	**12**	**11**	**54**	**23**		
⊙	P-003-0-20	1.3		**0.84**	**0.482**		**19**	**56**	**13**	**2**	**10**		

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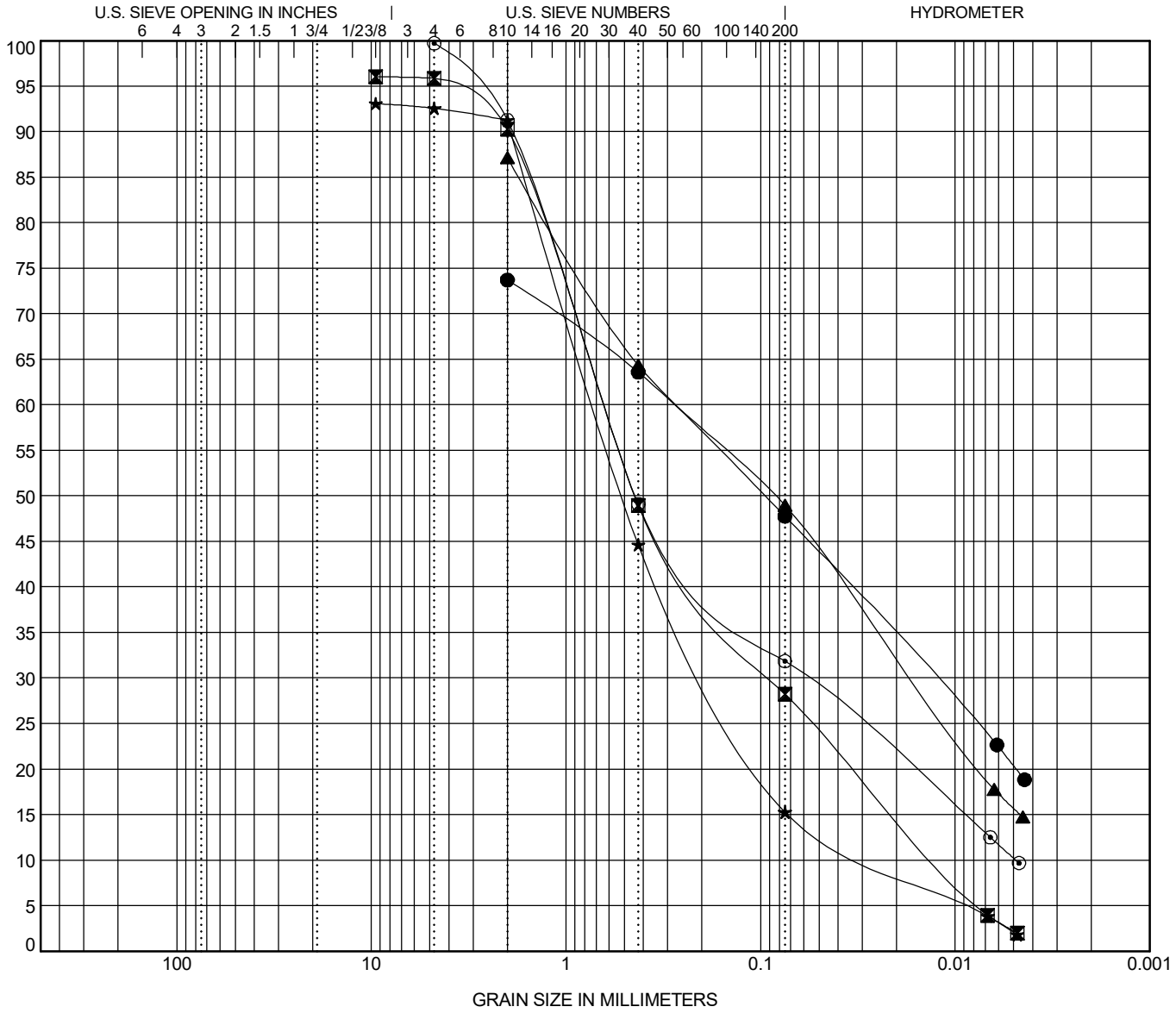

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-003-0-20	3.5	A-4a ~ CLAYEY SAND(SC)	28	19	9
⊠	P-004-0-20	1.3	A-3a ~ SILTY SAND(SM)	18	NP	NP
▲	P-004-0-20	3.5	A-4a ~ SILTY, CLAYEY SAND(SC-SM)	26	19	7
★	P-005-0-20	1.2	A-1-b ~ SILTY SAND(SM)	19	18	1
⊙	P-005-0-20	3.5	A-3a ~ SILTY, CLAYEY SAND(SC-SM)	24	20	4

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-003-0-20	3.5		0.096	0.013		0	36	16	28	20		
⊠	P-004-0-20	1.3	1.98	0.442	0.087	0.012	10	41	21	26	2	0.95	51.86
▲	P-004-0-20	3.5		0.084	0.017		0	36	15	33	16		
★	P-005-0-20	1.2	1.918	0.508	0.179	0.025	9	47	29	13	2	1.82	28.50
⊙	P-005-0-20	3.5	1.909	0.44	0.06	0.005	9	42	17	22	10	1.14	129.62

GRAIN SIZE DISTRIBUTION

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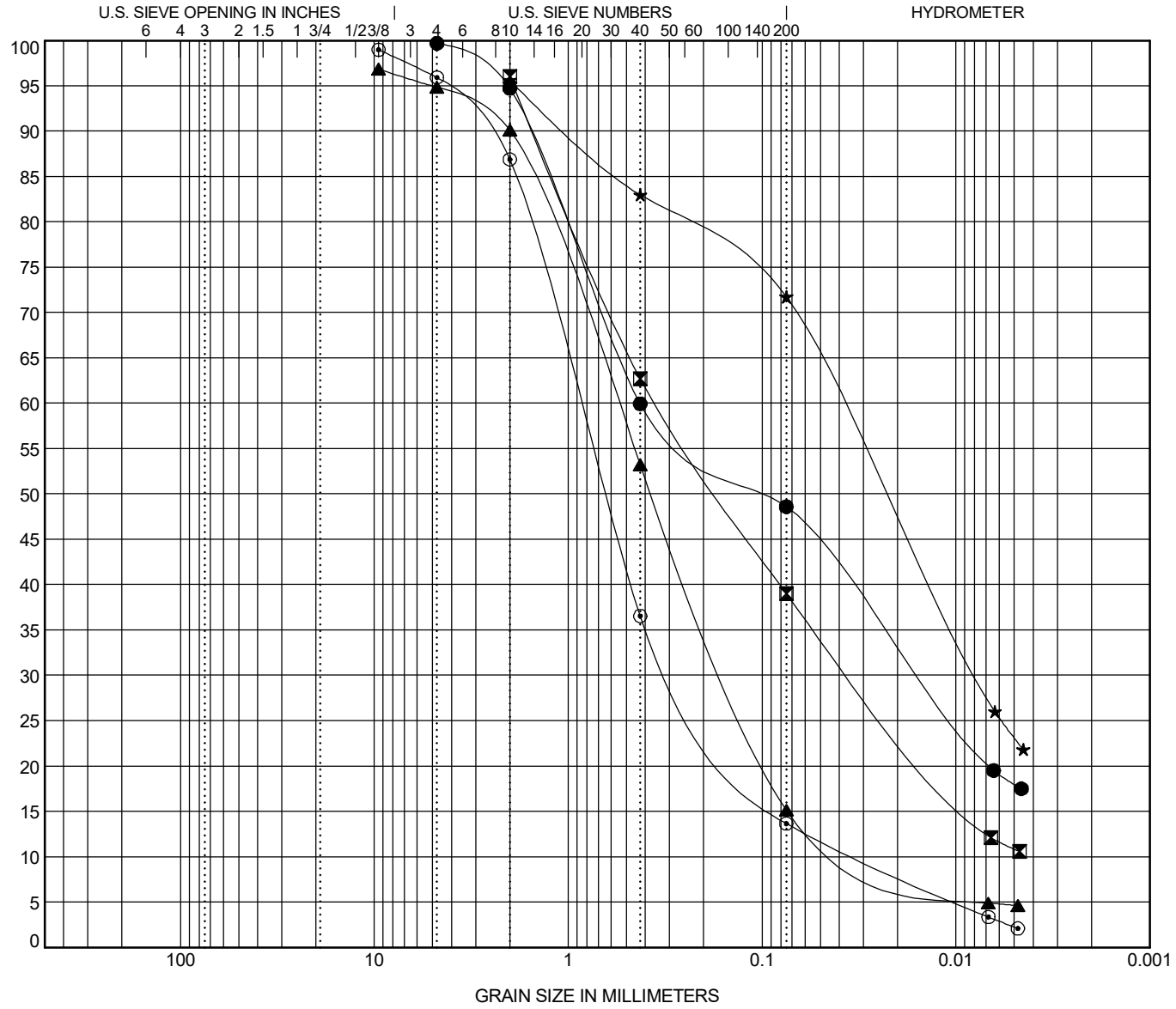
PROJECT INTERSTATE 76/77 **PID** 102329

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
●	P-006-0-20	1.2	**A-4a ~ SILTY, CLAYEY SAND(SC-SM)**	**20**	**15**	**5**
⊠	P-006-0-20	3.5	**A-4a ~ CLAYEY SAND(SC)**	**24**	**16**	**8**
▲	P-007-0-20	1.3	**A-3a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
★	P-007-0-20	3.5	**A-4a ~ SILTY CLAY with SAND(CL-ML)**	**28**	**21**	**7**
⊙	P-008-0-20	1.0	**A-1-b ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-006-0-20	1.2	**1.62**	**0.093**	**0.016**		**5**	**35**	**11**	**31**	**18**		
⊠	P-006-0-20	3.5	**1.51**	**0.168**	**0.033**		**0**	**37**	**24**	**28**	**11**		
▲	P-007-0-20	1.3	**1.991**	**0.367**	**0.148**	**0.023**	**10**	**37**	**38**	**10**	**5**	**1.71**	**24.99**
★	P-007-0-20	3.5	**1.005**	**0.023**	**0.008**		**0**	**17**	**11**	**49**	**23**		
⊙	P-008-0-20	1.0	**2.696**	**0.643**	**0.259**	**0.032**	**13**	**50**	**23**	**12**	**2**	**2.39**	**27.22**

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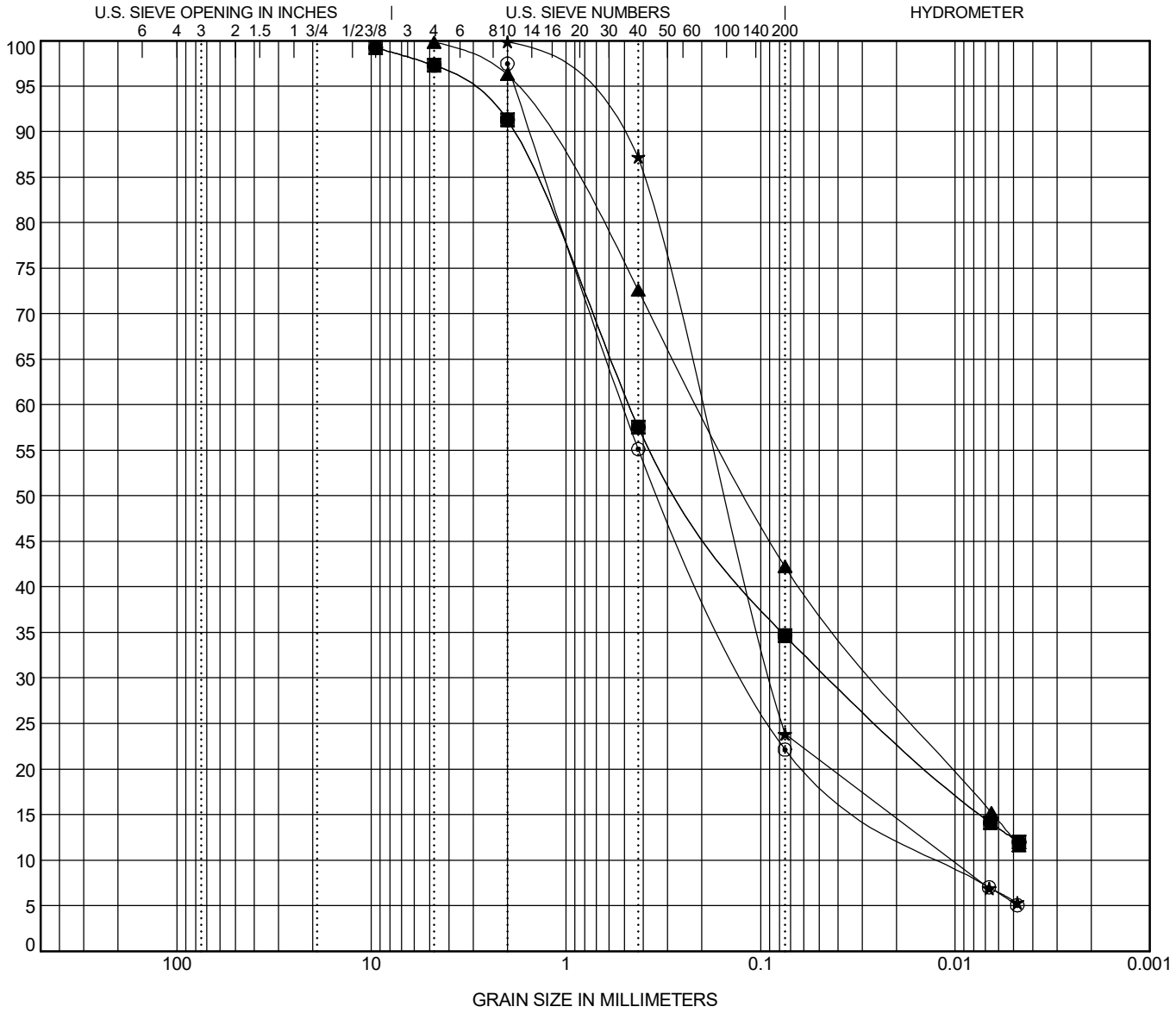

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-008-0-20	2.3	~			
⊠	P-008-0-20	3.5	A-3a ~ SILTY SAND(SM)	28	25	3
▲	P-009-0-20	3.5	A-6b ~ CLAYEY SAND(SC)	37	20	17
★	P-009-0-20	6.0	A-3a ~ SILTY SAND(SM)	22	NP	NP
⊙	P-010-0-20	1.1	A-3a ~ SILTY SAND(SM)	15	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-008-0-20	2.3	1.884	0.24	0.043		8	34	23	23	12		
⊠	P-008-0-20	3.5	1.884	0.24	0.043		8	34	23	23	12		
▲	P-009-0-20	3.5	1.326	0.117	0.025		4	24	30	30	12		
★	P-009-0-20	6.0	0.598	0.153	0.089	0.01	0	13	63	19	5	3.74	19.34
⊙	P-010-0-20	1.1	1.522	0.325	0.113	0.011	0	45	33	17	5	2.34	47.01

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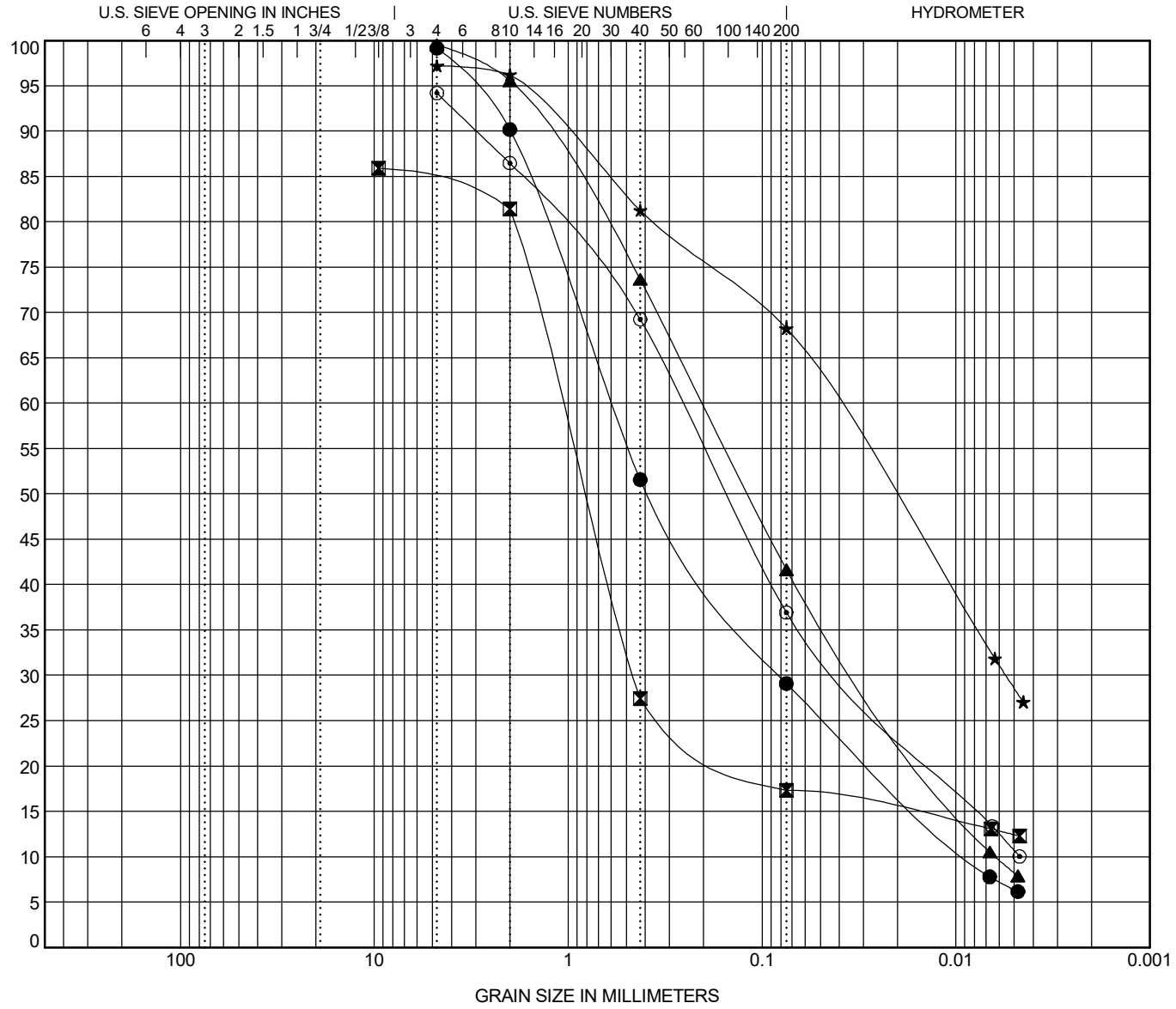

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-010-0-20	3.5	**A-3a ~ SILTY SAND(SM)**	**25**	**22**	**3**
⊠	P-011-0-20	1.0	**A-2-4 ~ SILTY, CLAYEY SAND with GRAVEL(SC-SM)**	**21**	**14**	**7**
▲	P-011-0-20	3.5	**A-4a ~ SILTY SAND(SM)**	**20**	**NP**	**NP**
★	P-012-0-20	1.2	**A-4a ~ SANDY LEAN CLAY(CL)**	**24**	**15**	**9**
⊙	P-012-0-20	3.5	**A-4a ~ SILTY SAND(SM)**	**17**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-010-0-20	3.5	**1.986**	**0.377**	**0.081**	**0.009**	**10**	**39**	**22**	**23**	**6**	**1.26**	**69.10**
⊠	P-011-0-20	1.0		**0.812**	**0.458**		**19**	**54**	**10**	**5**	**12**		
▲	P-011-0-20	3.5	**1.347**	**0.118**	**0.03**	**0.006**	**4**	**22**	**32**	**34**	**8**	**0.72**	**32.25**
★	P-012-0-20	1.2	**1.049**	**0.022**	**0.006**		**4**	**15**	**13**	**39**	**29**		
⊙	P-012-0-20	3.5	**2.969**	**0.151**	**0.037**		**14**	**17**	**32**	**26**	**11**		

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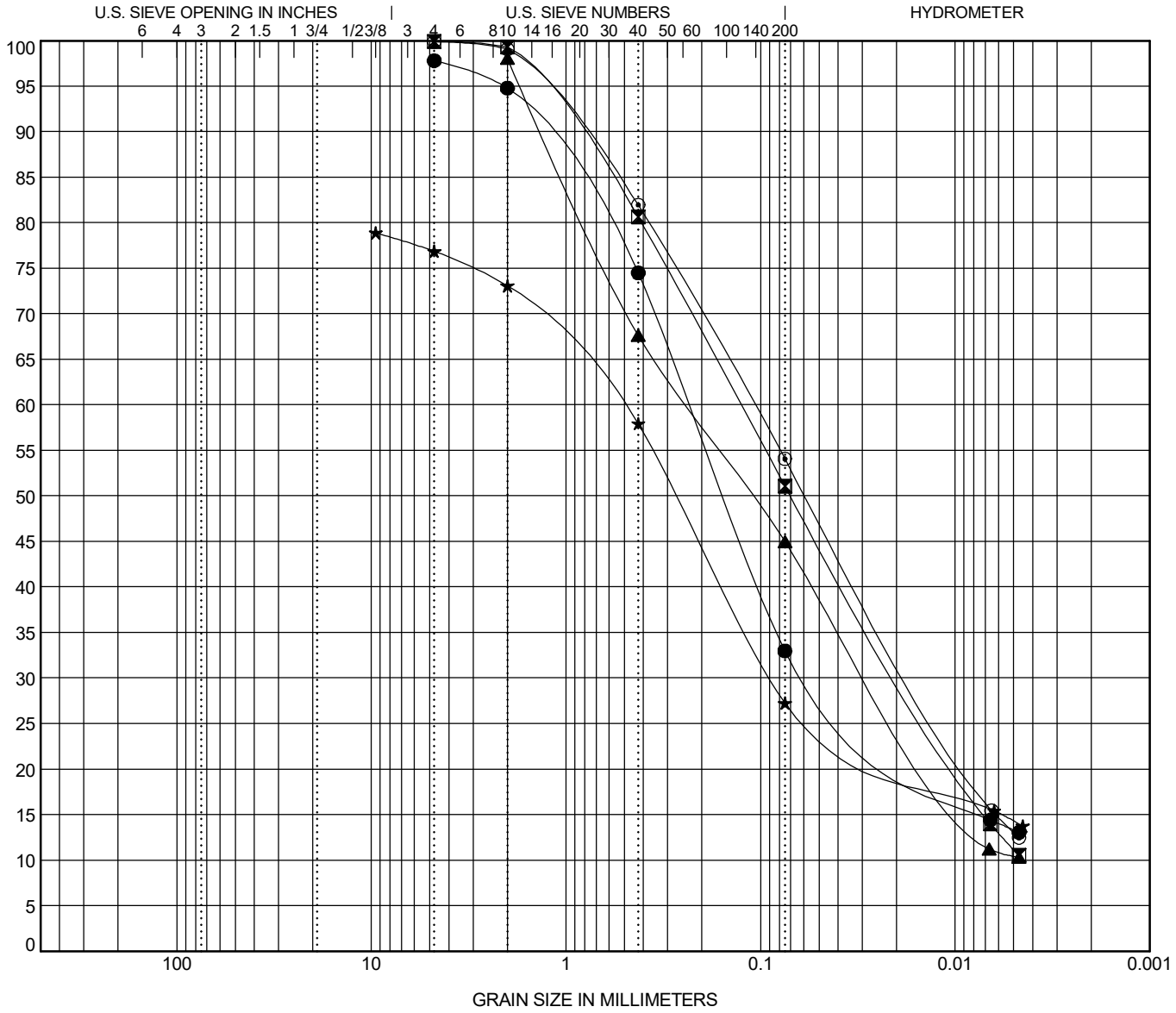

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-012-0-20	6.0	**A-3a ~ SILTY SAND(SM)**	**19**	**NP**	**NP**
⊠	P-013-0-20	1.0	**A-4a ~ SANDY LEAN CLAY(CL)**	**24**	**16**	**8**
▲	P-013-0-20	3.5	**A-6a ~ CLAYEY SAND(SC)**	**28**	**17**	**11**
★	P-014-0-20	1.1	**A-2-4 ~ SILTY SAND with GRAVEL(SM)**	**NP**	**NP**	**NP**
⊙	P-014-0-20	3.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**28**	**22**	**6**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-012-0-20	6.0	**1.389**	**0.153**	**0.051**		**5**	**20**	**42**	**20**	**13**		
⊠	P-013-0-20	1.0	**0.924**	**0.07**	**0.019**		**0**	**19**	**30**	**40**	**11**		
▲	P-013-0-20	3.5	**1.328**	**0.11**	**0.026**		**0**	**32**	**23**	**35**	**10**		
★	P-014-0-20	1.1		**0.271**	**0.088**		**27**	**15**	**31**	**13**	**14**		
⊙	P-014-0-20	3.5	**0.881**	**0.058**	**0.016**		**1**	**17**	**28**	**41**	**13**		

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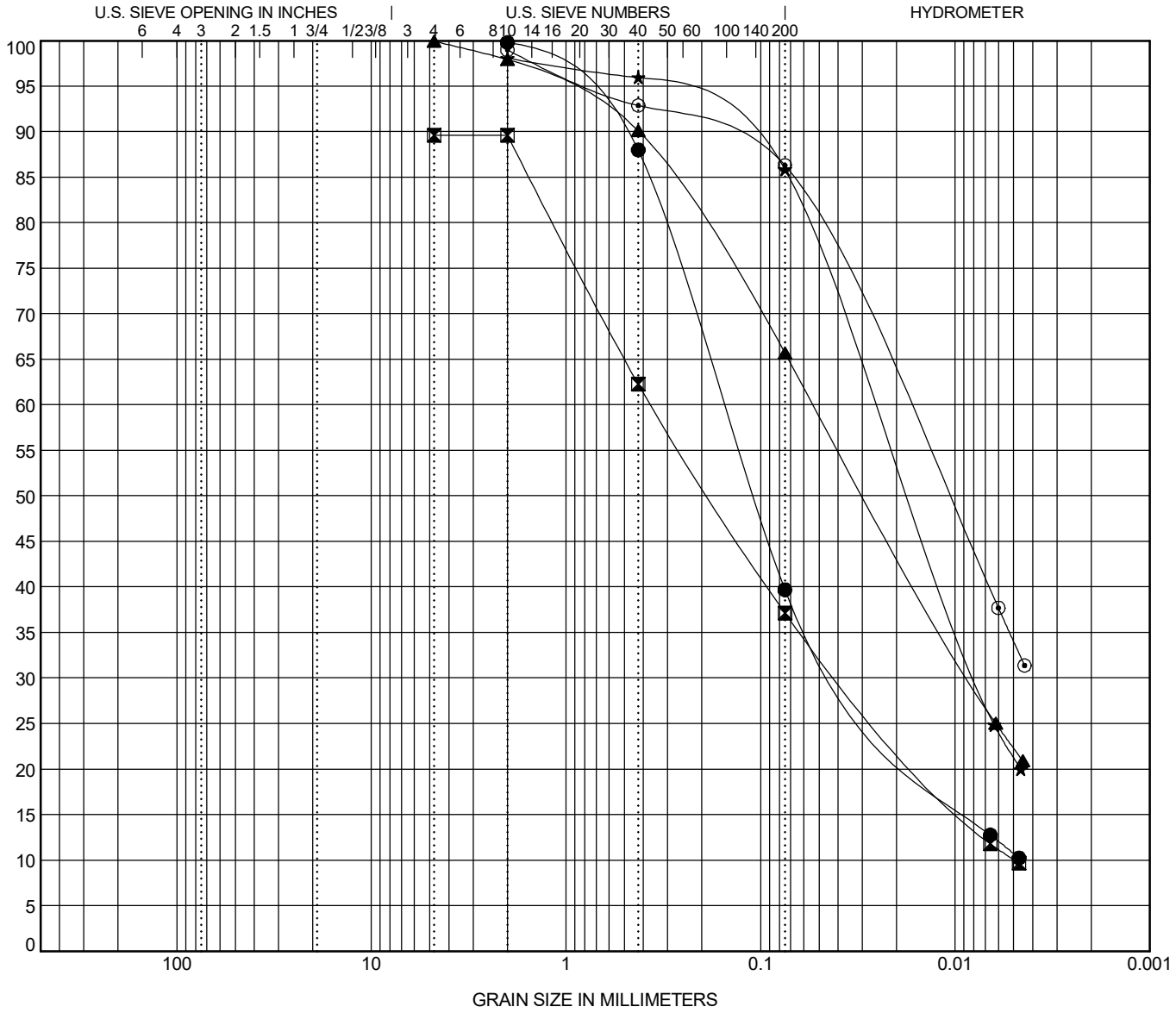
PROJECT INTERSTATE 76/77 **PID** 102329

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
●	P-015-0-20	1.0	**A-4a ~ SILTY, CLAYEY SAND(SC-SM)**	**24**	**19**	**5**
⊠	P-015-0-20	3.5	**~**			
▲	P-016-0-20	1.2	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**22**	**17**	**5**
★	P-016-0-20	3.5	**A-4b ~ SILT(ML)**	**25**	**22**	**3**
⊙	P-017-0-20	1.1	**A-4b ~ SILTY CLAY(CL-ML)**	**25**	**18**	**7**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-015-0-20	1.0	**0.553**	**0.109**	**0.031**		**0**	**12**	**48**	**29**	**11**		
⊠	P-015-0-20	3.5		**0.182**	**0.038**	**0.005**	**11**	**27**	**25**	**27**	**10**	**0.80**	**73.13**
▲	P-016-0-20	1.2	**0.422**	**0.029**	**0.008**		**2**	**8**	**24**	**44**	**22**		
★	P-016-0-20	3.5	**0.153**	**0.017**	**0.008**		**0**	**4**	**10**	**65**	**21**		
⊙	P-017-0-20	1.1	**0.199**	**0.011**			**0**	**7**	**7**	**52**	**34**		

GRAIN SIZE - OH DOT.GDT - 8/25/20 12:18 - X:\SHARED\DISCIPLINE\GEOTECH\GINT_COLUMBUS\PROJECTS\1822-1016-00 I-76_77 EL ROBINSON (8-24-2020).GPJ

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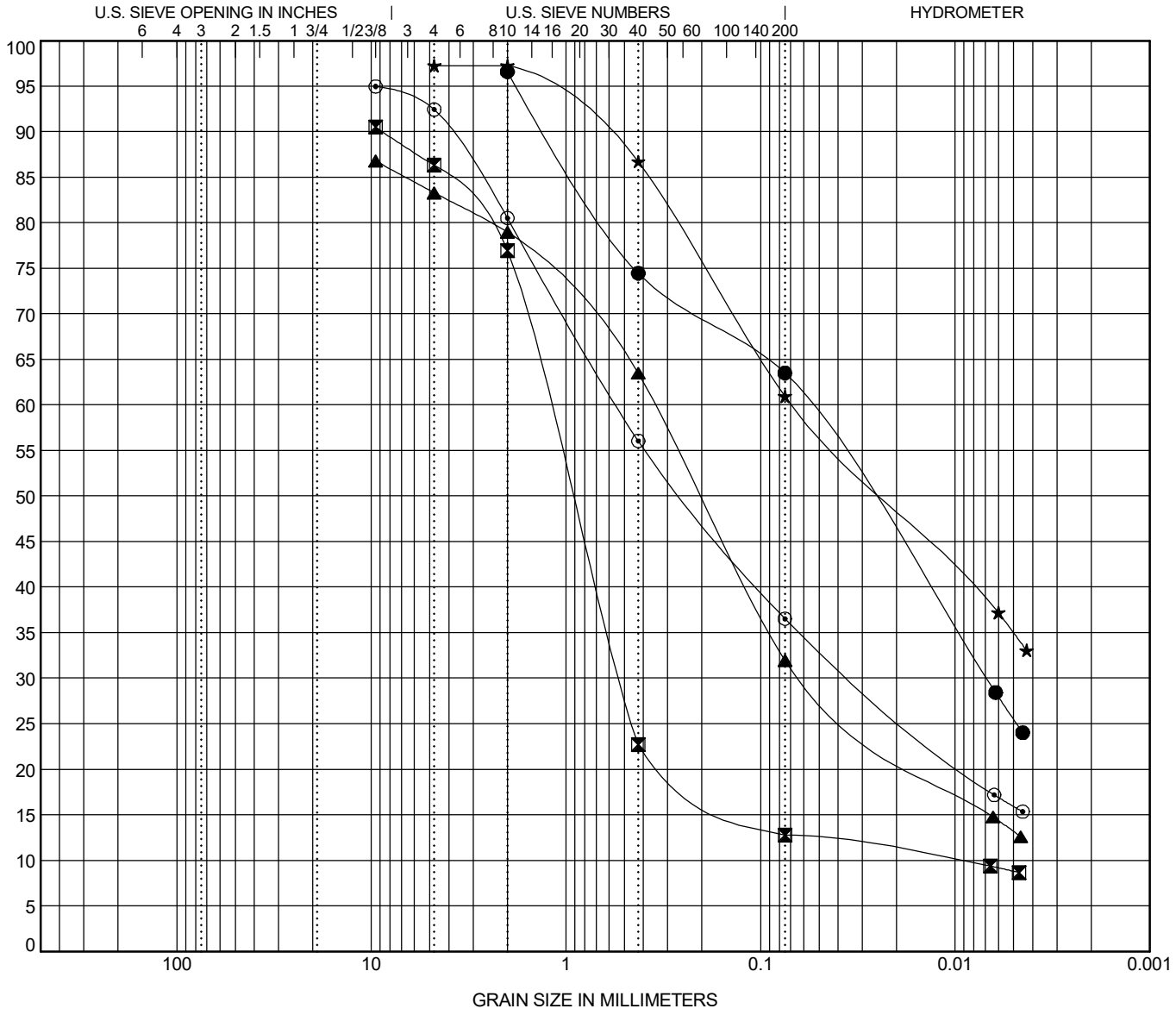

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-017-0-20	3.5	A-6a ~ SANDY LEAN CLAY(CL)	27	14	13
⊠	P-018-0-20	1.0	A-1-b ~ SILTY SAND(SM)	NP	NP	NP
▲	P-018-0-20	3.5	A-2-4 ~ SILTY SAND with GRAVEL(SM)	17	15	2
★	P-018-0-20	6.0	A-4a ~ SANDY SILTY CLAY(CL-ML)	21	14	7
⊙	P-019-0-20	1.0	A-4a ~ SILTY SAND(SM)	NP	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-017-0-20	3.5	1.261	0.029	0.007		0	25	11	39	25		
⊠	P-018-0-20	1.0	8.753	0.927	0.524	0.01	23	54	10	4	9	21.64	120.03
▲	P-018-0-20	3.5		0.203	0.057		21	15	32	19	13		
★	P-018-0-20	6.0	0.688	0.023			2	11	26	26	35		
⊙	P-019-0-20	1.0	3.979	0.248	0.033		19	24	20	21	16		

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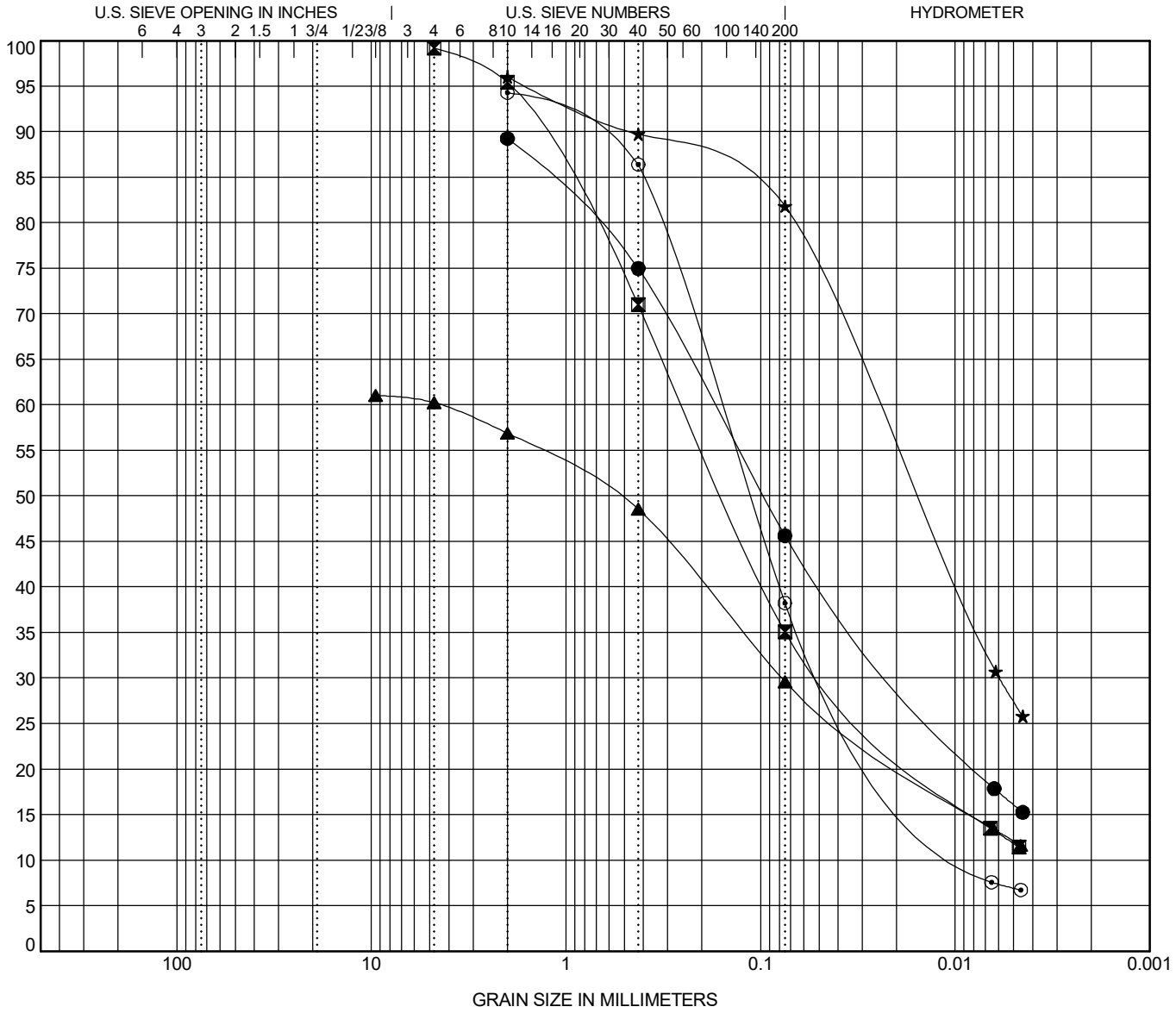

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-019-0-20	3.5	**A-4a ~ SILTY, CLAYEY SAND(SC-SM)**	**21**	**16**	**5**
⊠	P-019-0-20	6.0	**A-3a ~ SILTY SAND(SM)**	**20**	**NP**	**NP**
▲	P-020-0-20	1.0	**~**			
★	P-020-0-20	6.0	**A-4b ~ LEAN CLAY with SAND(CL)**	**28**	**20**	**8**
⊙	P-020-0-20	8.5	**A-4a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-019-0-20	3.5		**0.097**	**0.019**		**0**	**25**	**29**	**30**	**16**		
⊠	P-019-0-20	6.0	**1.418**	**0.154**	**0.042**		**5**	**24**	**36**	**23**	**12**		
▲	P-020-0-20	1.0		**0.556**	**0.078**		**43**	**8**	**19**	**18**	**12**		
★	P-020-0-20	6.0	**0.454**	**0.016**	**0.006**		**0**	**10**	**8**	**55**	**27**		
⊙	P-020-0-20	8.5	**0.862**	**0.115**	**0.039**	**0.008**	**0**	**14**	**48**	**31**	**7**	**1.17**	**20.79**

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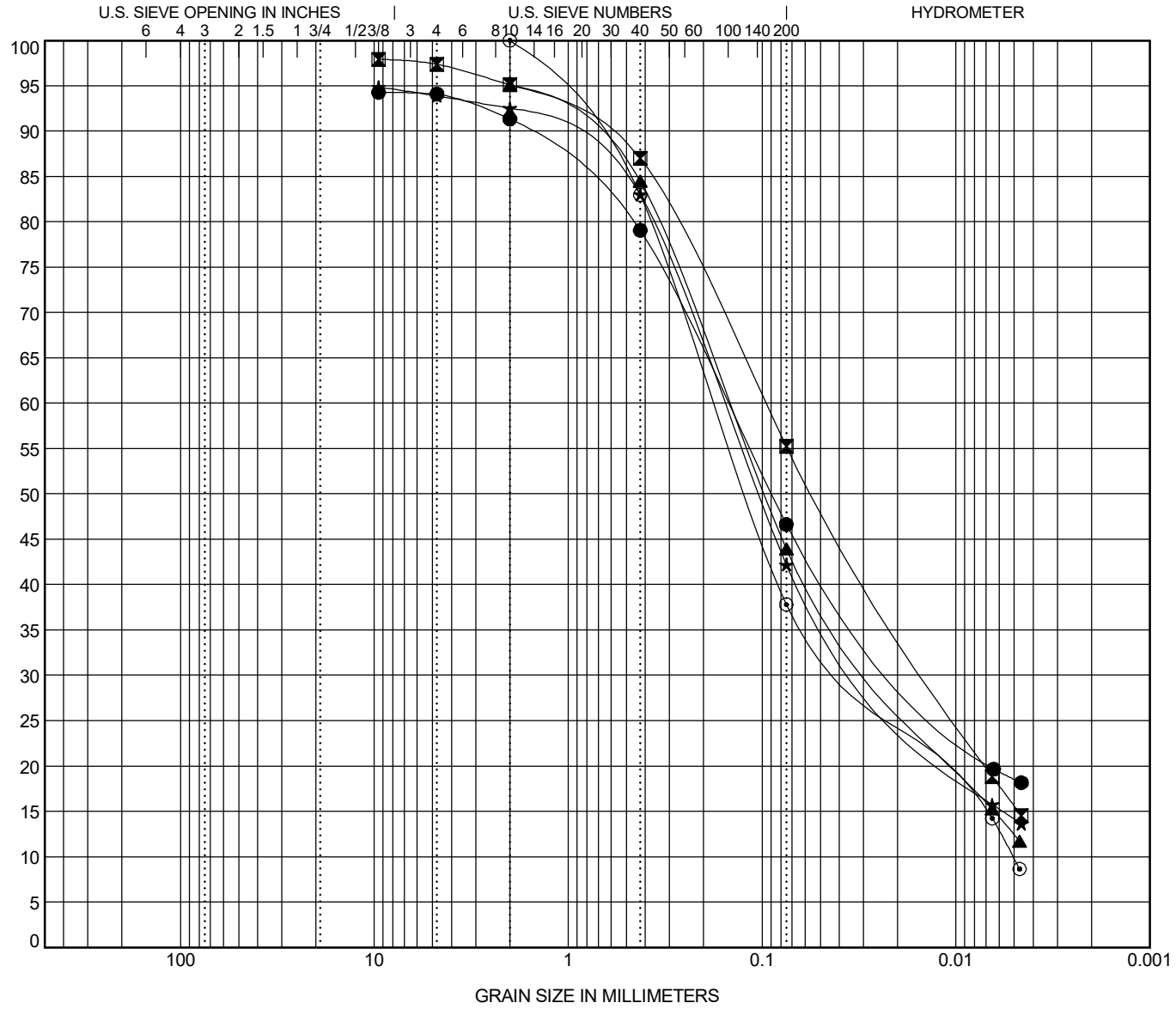

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-022-0-20	1.2	**A-4a ~ SILTY SAND(SM)**	18	15	3
⊠	P-022-0-20	3.5	**A-4a ~ SANDY SILT(ML)**	17	15	2
▲	P-022-0-20	6.0	**A-4a ~ SILTY SAND(SM)**	16	14	2
★	P-022-0-20	8.5	**A-4a ~ SILTY SAND(SM)**	15	15	NP
⊙	P-024-0-20	1.0	**A-4a ~ SILTY SAND(SM)**	18	17	1

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-022-0-20	1.2	1.687	0.09	0.016		9	12	32	28	19		
⊠	P-022-0-20	3.5	0.752	0.053	0.014		5	8	32	39	16		
▲	P-022-0-20	6.0	0.949	0.097	0.023		0	15	41	32	12		
★	P-022-0-20	8.5	1.323	0.105	0.024		7	10	41	28	14		
⊙	P-024-0-20	1.0	0.805	0.12	0.033	0.005	0	17	45	28	10	1.25	34.58

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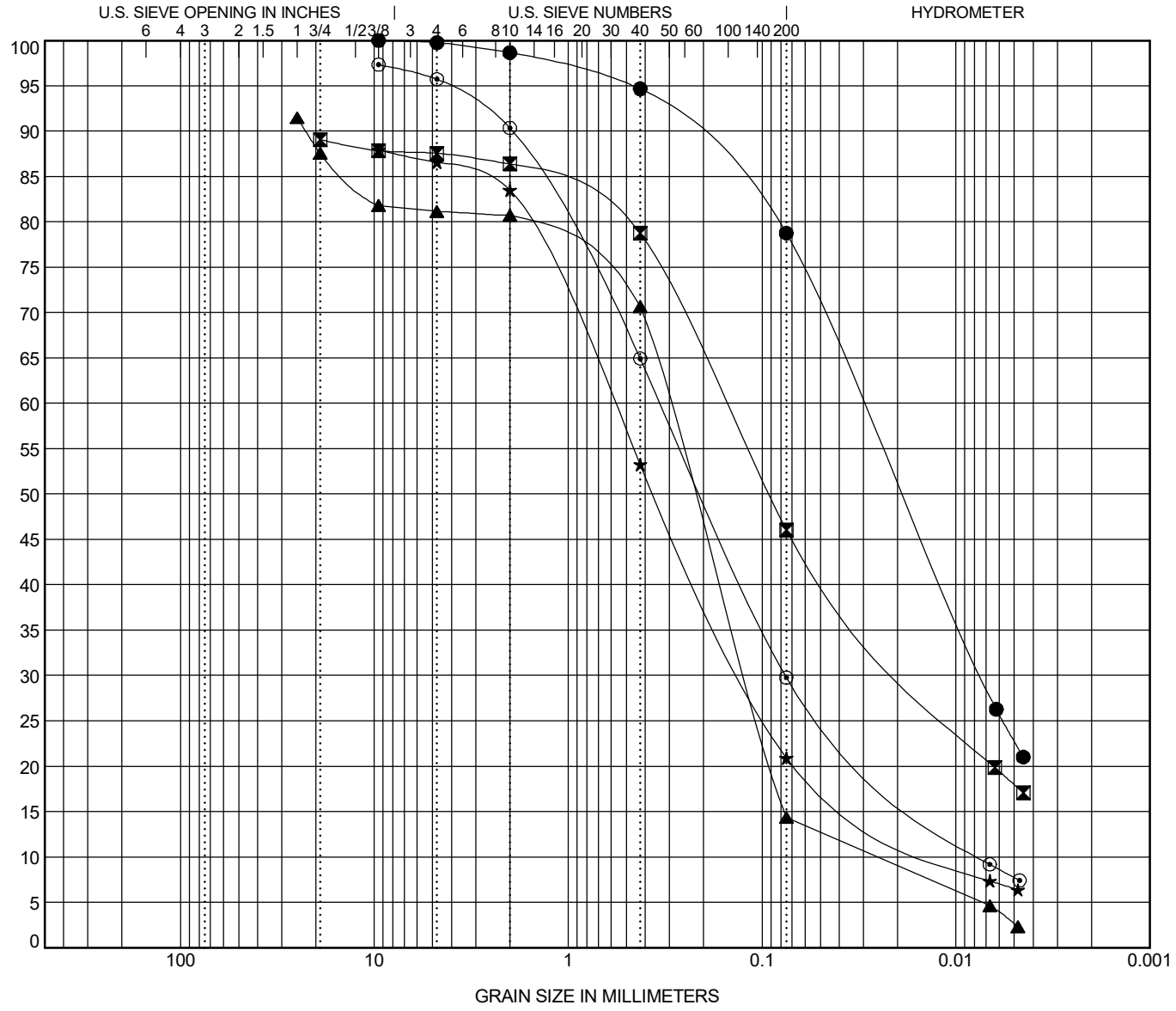

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-024-0-20	3.5	**A-4b ~ SILT with SAND(ML)**	**21**	**18**	**3**
⊠	P-024-0-20	6.0	**A-4a ~ SILTY SAND(SM)**	**16**	**15**	**1**
▲	P-024-0-20	8.5	**A-3a ~ SILTY SAND with GRAVEL(SM)**	**NP**	**NP**	**NP**
★	P-025-0-20	1.0	**A-3a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
⊙	P-025-0-20	3.5	**A-3a ~ SILTY SAND(SM)**	**14**	**NP**	**NP**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-024-0-20	3.5	**0.255**	**0.019**	**0.007**		**1**	**4**	**16**	**56**	**23**		
⊠	P-024-0-20	6.0		**0.093**	**0.016**		**13**	**8**	**33**	**28**	**18**		
▲	P-024-0-20	8.5	**22.54**	**0.225**	**0.121**	**0.026**	**20**	**10**	**56**	**11**	**3**	**1.89**	**11.99**
★	P-025-0-20	1.0		**0.357**	**0.122**	**0.011**	**17**	**30**	**32**	**15**	**6**	**2.31**	**55.82**
⊙	P-025-0-20	3.5	**1.957**	**0.203**	**0.076**	**0.007**	**10**	**25**	**35**	**22**	**8**	**2.34**	**45.11**

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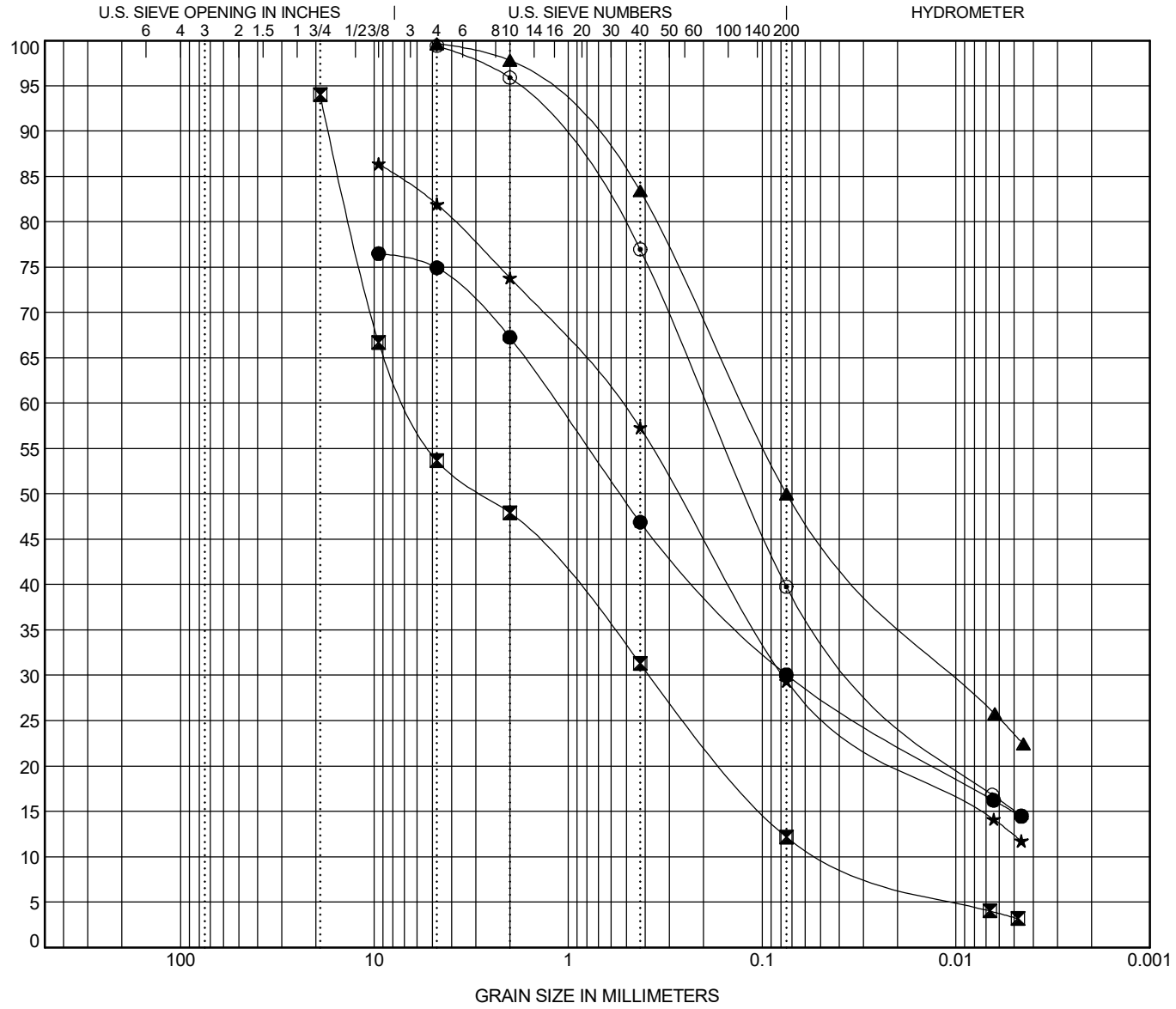

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-027-0-20	1.0	~			
⊠	P-027-0-20	3.5	~			
▲	P-027-0-20	6.0	A-4a ~ CLAYEY SAND(SC)	25	15	10
★	P-028-0-20	1.2	A-2-4 ~ SILTY SAND with GRAVEL(SM)	NP	NP	NP
⊙	P-028-0-20	3.5	A-4a ~ SILTY, CLAYEY SAND(SC-SM)	20	16	4

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-027-0-20	1.0		0.539	0.074		33	20	17	15	15		
⊠	P-027-0-20	3.5	17.159	2.738	0.378	0.04	52	17	19	9	3	0.54	167.62
▲	P-027-0-20	6.0	0.862	0.075	0.01		3	14	33	27	23		
★	P-028-0-20	1.2		0.27	0.078		27	16	28	17	12		
⊙	P-028-0-20	3.5	1.234	0.121	0.027		4	19	37	25	15		

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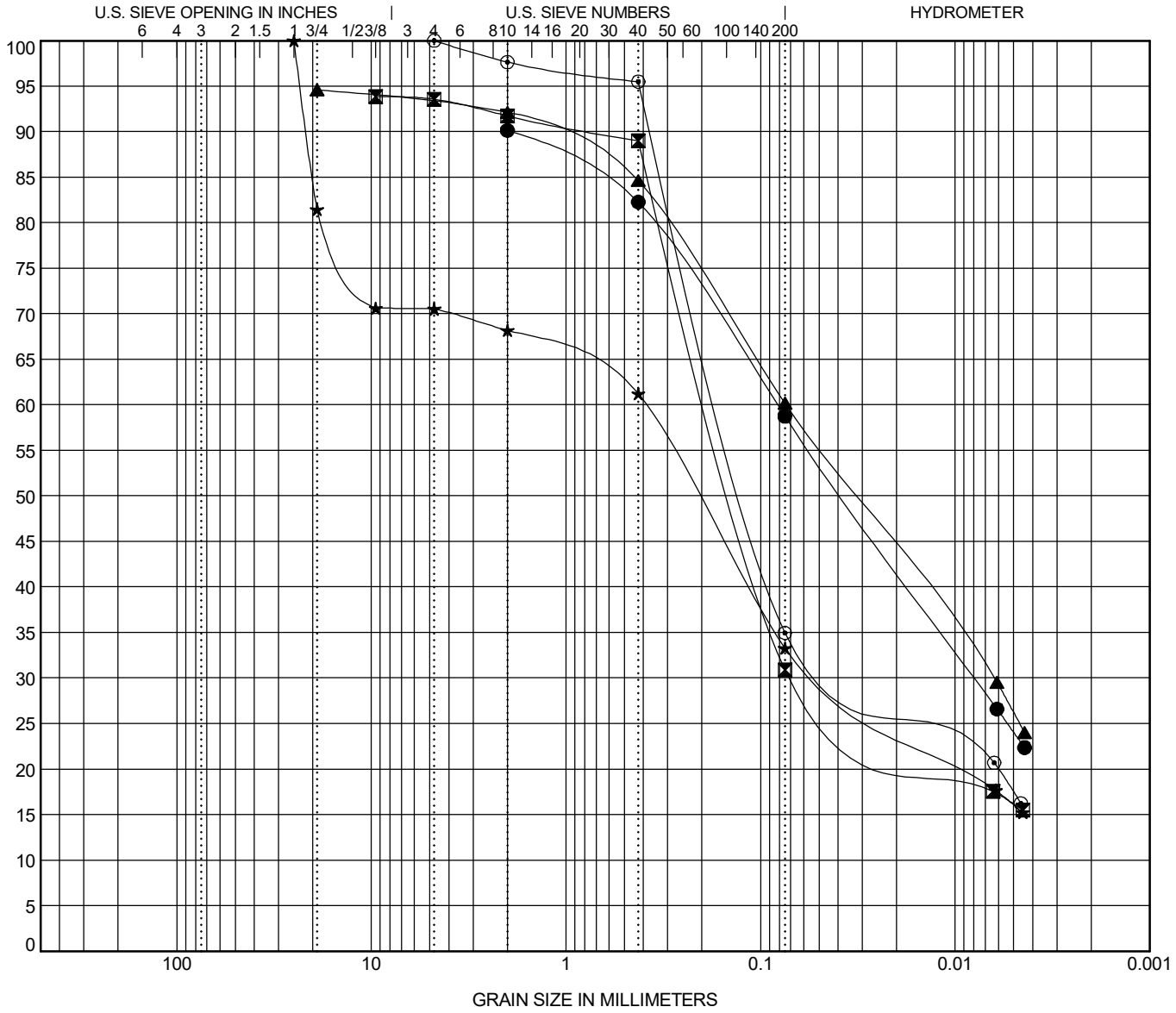

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-028-0-20	6.0	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**22**	**15**	**7**
⊠	P-029-0-20	1.1	**A-3a ~ SILTY SAND(SM)**	**NP**	**NP**	**NP**
▲	P-029-0-20	3.5	**A-4a ~ SANDY SILTY CLAY(CL-ML)**	**23**	**16**	**7**
★	P-029-0-20	6.0	**A-2-4 ~ SILTY SAND with GRAVEL(SM)**	**19**	**16**	**3**
⊙	P-029-0-20	8.5	**A-3a ~ SILTY SAND(SM)**	**17**	**16**	**1**

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-028-0-20	6.0	**1.944**	**0.038**	**0.008**		**0**	**17**	**24**	**35**	**24**		
⊠	P-029-0-20	1.1	**0.746**	**0.133**	**0.064**		**8**	**3**	**58**	**15**	**16**		
▲	P-029-0-20	3.5	**1.287**	**0.033**	**0.006**		**9**	**7**	**24**	**34**	**26**		
★	P-029-0-20	6.0	**21.56**	**0.212**	**0.044**		**32**	**7**	**28**	**17**	**16**		
⊙	P-029-0-20	8.5	**0.363**	**0.115**	**0.032**		**2**	**2**	**61**	**18**	**17**		

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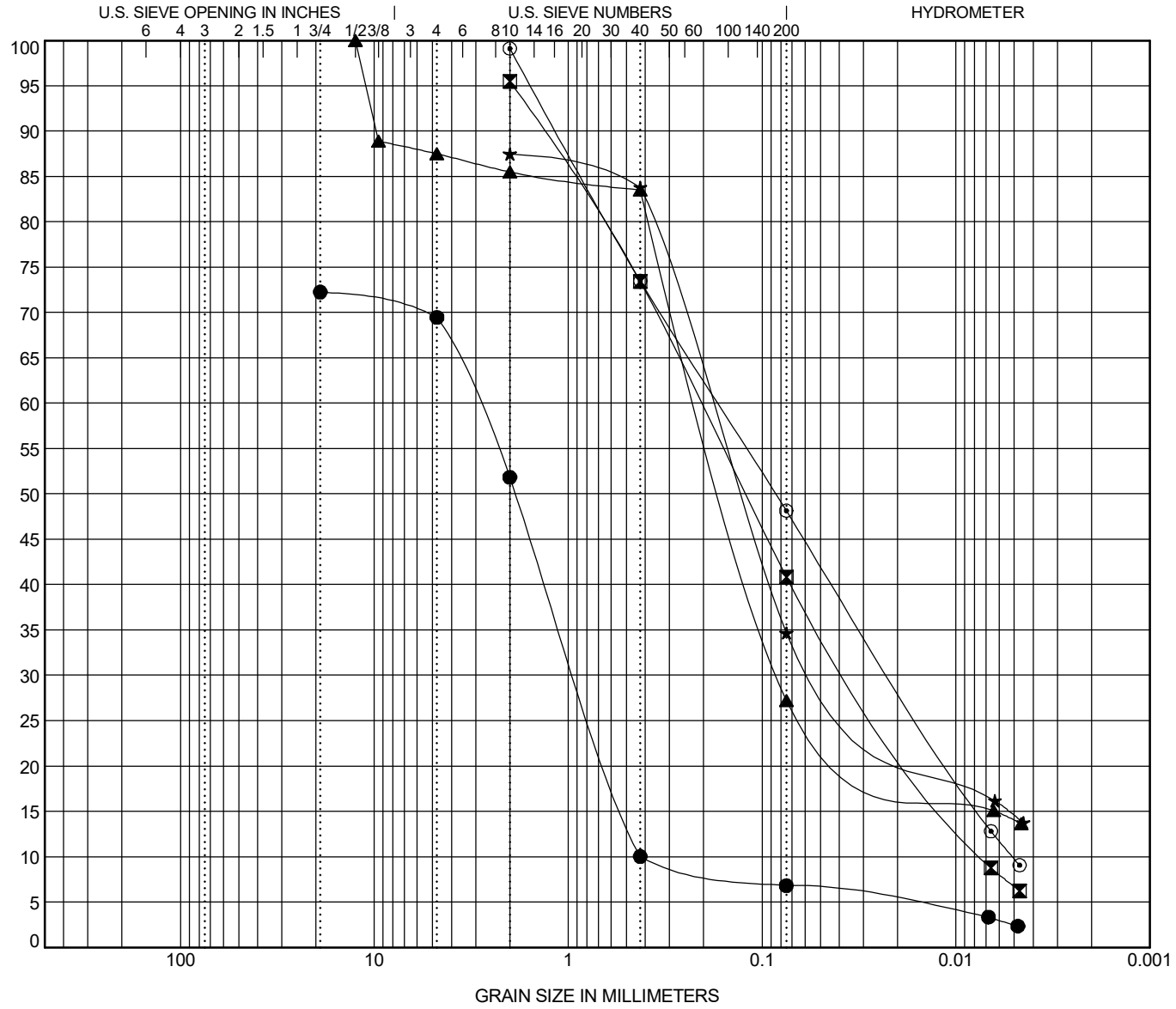

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification			ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
●	P-030-0-20	1.0	~			
⊠	P-030-0-20	3.5	A-4a ~ SILTY SAND(SM)	20	18	2
▲	P-032-0-20	1.0	A-3a ~ SILTY SAND(SM)	NP	NP	NP
★	P-032-0-20	3.5	A-3a ~ SILTY SAND(SM)	20	17	3
⊙	P-033-0-20	1.0	A-4a ~ SILTY SAND(SM)	18	NP	NP

Specimen Identification			D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
●	P-030-0-20	1.0		1.869	0.891	0.422	48	42	3	5	2	0.63	7.08
⊠	P-030-0-20	3.5	1.358	0.122	0.033	0.007	0	26	33	34	7	0.72	28.65
▲	P-032-0-20	1.0	9.764	0.151	0.082		15	2	56	13	14		
★	P-032-0-20	3.5		0.129	0.04		0	16	49	20	15		
⊙	P-033-0-20	1.0	1.153	0.085	0.022	0.005	0	27	25	38	10	0.54	32.97

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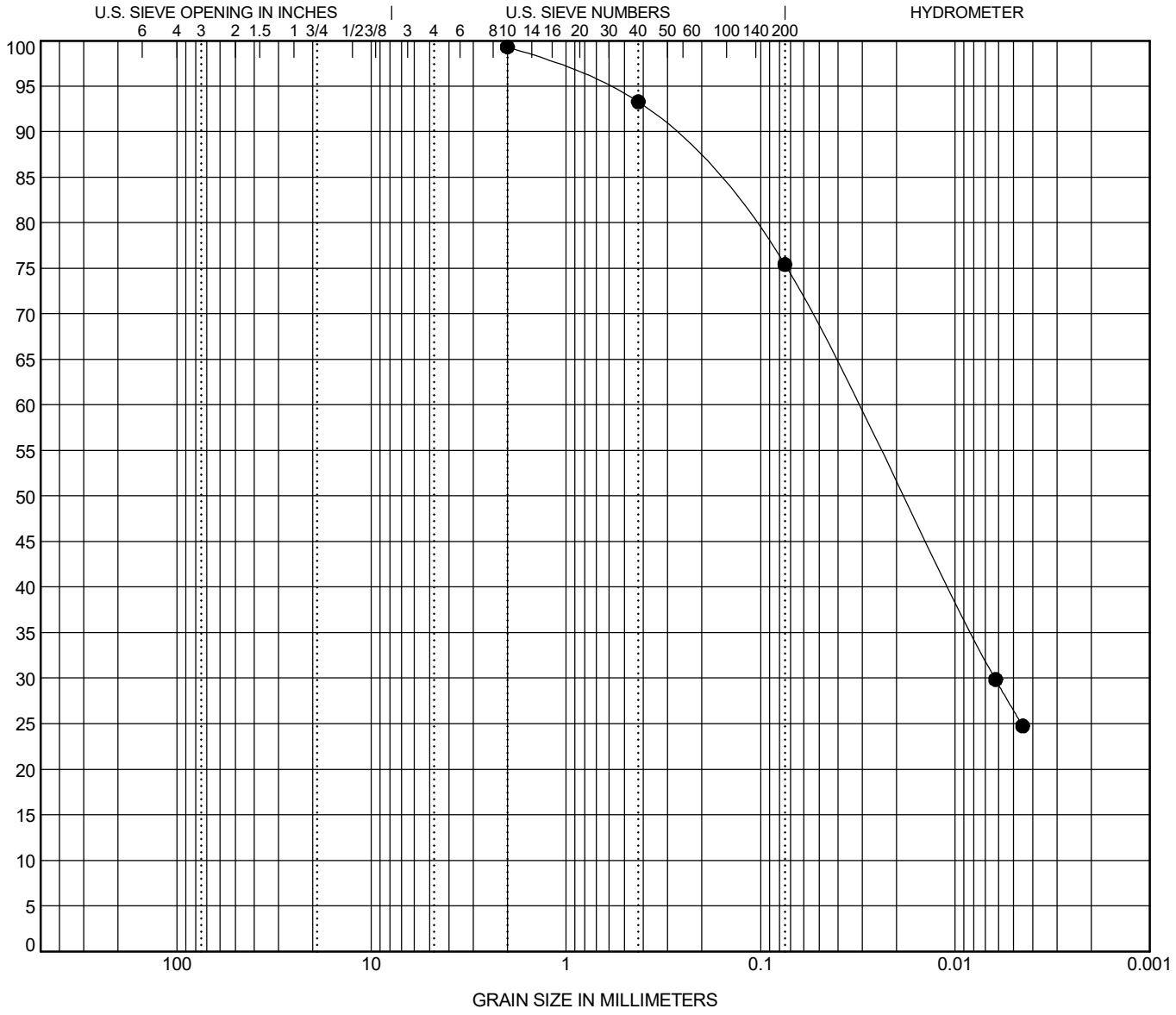

COBBLES	GRAVEL	SAND		SILT	CLAY
		coarse	fine		

Specimen Identification		ODOT (Modified AASHTO) ~ USCS Classification	LL	PL	PI
● **P-033-0-20**	**3.5**	**A-6a ~ LEAN CLAY with SAND(CL)**	**27**	**16**	**11**

Specimen Identification		D90	D50	D30	D10	%G	%CS	%FS	%M	%C	Cc	Cu
● **P-033-0-20**	**3.5**	**0.309**	**0.019**	**0.006**		**0**	**7**	**18**	**49**	**26**		

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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
B2-001-0-20	333+51	52	Lt	SS-1	01.00	02.50			29			25	17		37	24		11		A-4a		-
B2-001-0-20	333+51	52	Lt	SS-2	03.50	05.00			32									5		Rock		-
B2-001-0-20	333+51	52	Lt	SS-3	06.00	07.50			9									13		Rock		-
B2-001-0-20	333+51	52	Lt	SS-4	08.50	10.00			14			24	14		27	25		12		A-4a		-
B2-001-0-20	333+51	52	Lt	SS-5	11.00	12.50			15									10		A-4a		-
B2-001-0-20	333+51	52	Lt	SS-6	13.50	15.00			20			22	16		42	15		14		A-4a		-
B2-001-0-20	333+51	52	Lt	SS-7	16.00	17.50			29			30	18		51	28		18		A-6a		-
B2-001-0-20	333+51	52	Lt	SS-8	18.50	20.00			12			29	18		40	27		14		A-6a		-
B2-001-0-20	333+51	52	Lt	SS-9	21.00	22.50			15									17		A-6a		-
B2-001-0-20	333+51	52	Lt	SS-10	23.50	25.00			21									11		Rock		-
B2-001-0-20	333+51	52	Lt	SS-11	26.00	27.50			12									16		Rock		-
B2-001-0-20	333+51	52	Lt	SS-12	28.50	29.33			30/50/4"									10		UCF		-
B2-001-0-20	333+51	52	Lt	SS-13	31.00	32.50			12						4	6		18		A-3a		-
B2-001-0-20	333+51	52	Lt	SS-14	33.50	35.00			12									16		A-3a		-
B2-001-0-20	333+51	52	Lt	SS-15	36.00	37.50			12									18		A-3a		-
B2-001-0-20	333+51	52	Lt	SS-16	38.50	39.50			1/3/50/0"									18		UCF		-
E3-001-0-20	4327+24	129	Lt	SS-1	01.00	02.50			27			27	16		38	33		13		A-6a		-
E3-001-0-20	4327+24	129	Lt	SS-2	03.50	05.00			29			26	20		41	19		12		A-4a		-
E3-001-0-20	4327+24	129	Lt	SS-3	06.00	07.50			42			28	22		54	17		8		A-4b		-
E3-001-0-20	4327+24	129	Lt	SS-4	08.50	09.42			20/50/5"									8		Rock		-
E3-001-0-20	4327+24	129	Lt	SS-5	11.00	12.50			72											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-6	13.50	14.42			25/50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-7	16.00	16.42			50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-8	18.50	18.92			50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-9	21.00	21.42			50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-10	23.50	23.83			50/4"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-11	26.00	26.92			35/50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-12	28.50	29.42			32/50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-13	31.00	31.42			50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-14	33.50	33.75			50/3"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-15	36.00	36.42			50/5"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-16	38.50	38.67			50/2"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-17	41.00	41.25			50/3"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-18	43.50	43.67			50/2"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-19	46.00	46.25			50/3"											Rock		-
E3-001-0-20	4327+24	129	Lt	SS-20	48.50	48.58			50/1"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-1	01.00	02.50			38			30	17		34	32		12		A-6a		-
E3-002-0-20	4328+42	112	Lt	SS-2	03.50	05.00			59			29	17		33	31		11		A-6a		-
E3-002-0-20	4328+42	112	Lt	SS-3	06.00	07.50			41									6		Rock		-
E3-002-0-20	4328+42	112	Lt	SS-4	08.50	10.00			41									6		Rock		-
E3-002-0-20	4328+42	112	Lt	SS-5	11.00	12.50			12											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-6	13.50	15.00			89											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-7	16.00	16.92			14/50/5"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-8	18.50	19.25			35/50/3"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-9	21.00	21.42			50/5"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-10	23.50	23.92			50/5"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-11	26.00	26.33			50/4"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-12	28.50	28.75			50/3"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-13	31.00	31.17			50/2"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-14	33.50	33.75			50/3"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-15	36.00	36.17			50/2"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-16	38.50	38.75			50/3"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-17	41.00	41.25			50/3"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-18	43.50	43.75			50/3"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-19	46.00	46.17			50/2"											Rock		-
E3-002-0-20	4328+42	112	Lt	SS-20	48.50	48.83			50/4"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-1	01.00	02.50			44			24	15		49	21		8		A-4a		-
E3-003-0-20	4329+57	94	Lt	SS-2	03.50	05.00			32									14		A-4a		-
E3-003-0-20	4329+57	94	Lt	SS-3	06.00	07.50			65									6		Rock		-
E3-003-0-20	4329+57	94	Lt	SS-4	08.50	10.00			92									4		Rock		-
E3-003-0-20	4329+57	94	Lt	SS-5	11.00	11.42			50/5"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-6	13.50	13.92			50/5"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-7	16.00	17.50			66											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-8	18.50	20.00			77											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-9	21.00	21.42			50/5"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-10	23.50	23.83			50/4"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-11	26.00	26.42			50/5"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-12	28.50	28.67			50/2"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-13	31.00	31.17			50/2"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-14	33.50	33.67			50/2"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-15	36.00	36.83			37/50/4"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-16	38.50	39.42			36/50/5"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-17	41.00	41.25			50/3"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-18	43.50	43.92			50/5"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-19	46.00	46.08			50/1"											Rock		-
E3-003-0-20	4329+57	94	Lt	SS-20	48.50	48.58			50/1"											Rock		-
E3-004-0-20	4330+72	89	Lt	SS-1	01.00	02.50			50			26	16		37	26		10		A-4a		-
E3-004-0-20	4330+72	89	Lt	SS-2	03.50	05.00			50									9		A-4a		-
E3-004-0-20	4330+72	89	Lt	SS-3	06.00	07.50			35			29	21		45	17		14		A-4a		-
E3-004-0-20	4330+72	89	Lt	SS-4	08.50	09.83			7/39/50/4"			29	21		58	20		10		A-4b		-
E3-004-0-20	4330+72	89	Lt	SS-5	11.00	11.92			17/50/5"									9		Rock		-
E3-004-0-20	4330+72	89	Lt	SS-6	13.50	14.33			15/50/4"									7		Rock		-

"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
E3-004-0-20	4330+72	89	Lt	RC-1	15.00	15.00														Rock		-
E3-004-0-20	4330+72	89	Lt	RC-2	16.00	16.00														Rock		-
E3-004-0-20	4330+72	89	Lt	RC-3	23.00	23.00														Rock		-
E3-004-0-20	4330+72	89	Lt	RC-4	26.00	26.00														Rock		-
E3-004-0-20	4330+72	89	Lt	SS-15	36.00	36.42			50/5"											Rock		-
E3-004-0-20	4330+72	89	Lt	SS-16	38.50	38.75			50/3"											Rock		-
E3-004-0-20	4330+72	89	Lt	SS-17	41.00	41.25			50/3"											Rock		-
E3-004-0-20	4330+72	89	Lt	SS-18	43.50	43.75			50/3"											Rock		-
E3-004-0-20	4330+72	89	Lt	SS-19	46.00	46.25			50/3"											Rock		-
E3-004-0-20	4330+72	89	Lt	SS-20	48.50	48.67			50/2"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-1	01.00	02.50			41			38	22		49	46		14		A-6b		-
E3-005-0-20	357+67	147	Lt	SS-2	03.50	05.00			47			38	25		51	37		15		A-6a		-
E3-005-0-20	357+67	147	Lt	SS-3	06.00	07.42			11/38/50/5"									6		Rock		-
E3-005-0-20	357+67	147	Lt	SS-4	08.50	09.83			13/39/50/4"									8		Rock		-
E3-005-0-20	357+67	147	Lt	SS-5	11.00	12.33			17/12/50/4"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-6	13.50	13.83			50/4"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-7	16.00	16.83			41/50/4"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-8	18.50	18.92			50/5"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-9	21.00	21.42			50/5"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-10	23.50	23.83			50/4"									8		Rock		-
E3-005-0-20	357+67	147	Lt	SS-11	26.00	26.25			50/3"									9		Rock		-
E3-005-0-20	357+67	147	Lt	SS-12	28.50	28.75			50/3"									4		Rock		-
E3-005-0-20	357+67	147	Lt	SS-13	31.00	31.17			50/2"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-14	33.50	33.92			50/5"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-15	36.00	36.33			50/4"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-16	38.50	38.67			50/2"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-17	41.00	41.17			50/2"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-18	43.50	43.50			50/0"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-19	46.00	46.08			50/1"											Rock		-
E3-005-0-20	357+67	147	Lt	SS-20	48.50	48.58			50/1"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-1	01.00	02.50			41			38	21		40	45		16		A-6b		-
E3-006-0-20	361+02	111	Lt	SS-2	03.50	05.00			47			38	21		50	40		12		A-6b		-
E3-006-0-20	361+02	111	Lt	SS-3	06.00	07.50			48									12		Rock		-
E3-006-0-20	361+02	111	Lt	SS-4	08.50	08.92			50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-5	11.00	12.33			4/22/50/4"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-6	13.50	14.25			39/50/3"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-7	16.00	16.92			29/50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-8	18.50	18.83			50/4"									11		Rock		-
E3-006-0-20	361+02	111	Lt	SS-9	21.00	21.92			31/50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-10	23.50	23.92			50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-11	26.00	26.33			50/4"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-12	28.50	28.92			50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-13	31.00	31.42			50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-14	33.50	33.92			50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-15	36.00	36.25			50/3"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-16	38.50	38.92			50/5"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-17	41.00	41.25			50/3"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-18	43.50	43.67			50/2"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-19	46.00	46.25			50/3"											Rock		-
E3-006-0-20	361+02	111	Lt	SS-20	48.50	48.75			50/3"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-1	01.00	02.50			24			23	16		12	29		20		A-4a		-
E3-007-0-20	364+33	89	Lt	SS-2	03.50	04.75			10/40/50/3"			NP	NP		19	23		41		A-4a		-
E3-007-0-20	364+33	89	Lt	SS-3	06.00	06.75			25/50/3"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-4	08.50	09.50			25/48/50/0"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-5	11.00	12.50			108											Rock		-
E3-007-0-20	364+33	89	Lt	SS-6	13.50	15.00			128											Rock		-
E3-007-0-20	364+33	89	Lt	SS-7	16.00	16.92			35/50/5"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-8	18.50	19.25			31/50/3"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-9	21.00	21.42			50/5"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-10	23.50	24.42			43/50/5"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-11	26.00	26.33			50/4"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-12	28.50	28.83			50/4"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-13	31.00	31.25			50/3"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-14	33.50	33.67			50/2"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-15	36.00	36.17			50/2"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-16	38.50	38.75			50/3"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-17	41.00	41.25			50/3"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-18	43.50	43.67			50/2"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-19	46.00	46.42			50/5"											Rock		-
E3-007-0-20	364+33	89	Lt	SS-20	48.50	48.67			50/2"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-1	01.00	02.50			33			27	17		33	19		13		A-4a		-
E3-008-0-20	367+73	80	Lt	SS-2	03.50	05.00			29									15		A-4a		-
E3-008-0-20	367+73	80	Lt	SS-3	06.00	07.50			17			21	14		30	23		13		A-4a		-
E3-008-0-20	367+73	80	Lt	SS-4	08.50	10.00			18									12		A-6a		-
E3-008-0-20	367+73	80	Lt	SS-5	11.00	12.50			123											Rock		-
E3-008-0-20	367+73	80	Lt	SS-6	13.50	13.75			50/3"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-7	16.00	17.50			36											Rock		-
E3-008-0-20	367+73	80	Lt	SS-8	18.50	20.00			36											Rock		-
E3-008-0-20	367+73	80	Lt	SS-9	21.00	22.50			101											Rock		-
E3-008-0-20	367+73	80	Lt	SS-10	23.50	24.83			15/38/50/4"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-11	26.00	27.50			102											Rock		-
E3-008-0-20	367+73	80	Lt	SS-12	28.50	28.67			50/2"											Rock		-

"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
E3-008-0-20	367+73	80	Lt	SS-13	31.00	31.25			50/3"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-14	33.50	33.58			50/1"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-15	36.00	36.17			50/2"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-16	38.50	38.58			50/1"									10		Rock		-
E3-008-0-20	367+73	80	Lt	SS-17	41.00	41.17			50/2"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-18	43.50	43.75			50/3"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-19	46.00	46.33			50/4"											Rock		-
E3-008-0-20	367+73	80	Lt	SS-20	48.50	48.75			50/3"									15		Rock		-
P-001-0-20	4314+13	8	Lt	SS-1	01.10	02.60			22			16	17		15	15		18		A-3a		-
P-001-0-20	4314+13	8	Lt	SS-2	03.50	04.30			19/50/4"			29	46		46	25		4		Rock		-
P-001-0-20	4314+13	8	Lt	SS-3	06.00	06.80			38/50/4"									4		Rock		-
P-001-0-20	4314+13	8	Lt	SS-4	08.50	09.20			42/50/2"									4		Rock		-
P-002-0-20	4310+80	38	Rt	SS-1	01.00	02.50			32			15	NP		27	5		10		A-3a		-
P-002-0-20	4310+80	38	Rt	SS-2	03.50	04.40			23/50/5"			28	21		54	23		5		Rock		-
P-002-0-20	4310+80	38	Rt	SS-3	06.00	06.70			36/50/2"									5		Rock		-
P-002-0-20	4310+80	38	Rt	SS-4	08.50	09.10			42/50/1"									4		Rock		-
P-003-0-20	4314+12	32	Lt	SS-1	01.30	02.60			106			NP	NP		2	10		14		A-1-b		-
P-003-0-20	4314+12	32	Lt	SS-2	03.50	04.10			31/50/1"			28	19		28	20		4		Rock		-
P-003-0-20	4314+12	32	Lt	SS-3	06.00	06.40			50/5"									4		Rock		-
P-003-0-20	4314+12	32	Lt	SS-4	08.50	09.10			33/50/1"									4		Rock		-
P-004-0-20	4314+82	29	Rt	SS-1	01.30	02.20			13/50			18	NP		26	2		11		A-3a		-
P-004-0-20	4314+82	29	Rt	SS-2	03.50	04.10			48/50/1"			26	19		33	16		4		Rock		-
P-004-0-20	4314+82	29	Rt	SS-3	06.00	06.40			50/5"									4		Rock		-
P-004-0-20	4314+82	29	Rt	SS-4	08.50	08.90			50/5"									4		Rock		-
P-005-0-20	4317+80	10	Rt	SS-1	01.20	02.40			10/10/50/4"			19	18		13	2		14		A-1-b		-
P-005-0-20	4317+80	10	Rt	SS-2	03.50	04.20			34/50/2"			24	20		22	10		3		Rock		-
P-005-0-20	4317+80	10	Rt	SS-3	06.00	06.40			50/5"									5		Rock		-
P-005-0-20	4317+80	10	Rt	SS-4	08.50	08.60			50/1"									3		Rock		-
P-006-0-20	4318+15	35	Lt	SS-1	01.20	02.70						20	15		31	18		12		A-4a		-
P-006-0-20	4318+15	35	Lt	SS-2	03.50	04.10			31/50/1"			24	16		28	11		4		Rock		-
P-006-0-20	4318+15	35	Lt	SS-3	06.00	06.40			50/5"									5		Rock		-
P-006-0-20	4318+15	35	Lt	SS-4	08.50	08.90			50/5"									5		Rock		-
P-007-0-20	4321+13	9	Rt	SS-1	01.30	02.80			28			NP	NP		10	5		18		A-3a		-
P-007-0-20	4321+13	9	Rt	SS-2	03.50	04.20			13/50/2"			28	21		49	23		6		Rock		-
P-007-0-20	4321+13	9	Rt	SS-3	06.00	06.40			50/5"									8		Rock		-
P-007-0-20	4321+13	9	Rt	SS-4	08.50	09.10			48/50/1"									9		Rock		-
P-008-0-20	4322+19	8	Lt	SS-1A	01.00	02.50			21			NP	NP		12	2		9		A-1-b		-
P-008-0-20	4322+19	8	Lt	SS-1B	02.25	02.50					4.00				23	12		13		A-7-6		-
P-008-0-20	4322+19	8	Lt	SS-2	03.50	05.00			64			28	25		23	12		6		Rock		-
P-008-0-20	4322+19	8	Lt	SS-3	06.00	06.60			39/50/1"									5		Rock		-
P-008-0-20	4322+19	8	Lt	SS-4	08.50	09.10			47/50/1"									4		Rock		-
P-009-0-20	4322+06	137	Lt	SS-1	01.00	02.50			10									9		A-1-a		-
P-009-0-20	4322+06	137	Lt	SS-2	03.50	05.00			14		2.25	37	20		30	12		19		A-6b		-
P-009-0-20	4322+06	137	Lt	SS-3	06.00	07.50			10			22	NP		19	5		11		A-3a		-
P-009-0-20	4322+06	137	Lt	SS-4	08.50	10.00			4									9		A-6b		-
P-010-0-20	4325+18	35	Rt	SS-1	01.10	02.60			13			15	NP		17	5		12		A-3a		-
P-010-0-20	4325+18	35	Rt	SS-2	03.50	04.40			19/50/5"			25	22		23	6		5		Rock		-
P-010-0-20	4325+18	35	Rt	SS-3	06.00	06.40			50/5"									3		Rock		-
P-010-0-20	4325+18	35	Rt	SS-4	08.50	09.20			27/50/2"									4		Rock		-
P-011-0-20	4326+28	12	Lt	SS-1	01.00	02.50						21	14		5	12		10		A-2-4		-
P-011-0-20	4326+28	12	Lt	SS-2	03.50	04.30			6/50/4"			20	NP		34	8		6		Rock		-
P-011-0-20	4326+28	12	Lt	SS-3	06.00	06.60			23/50/1"									5		Rock		-
P-011-0-20	4326+28	12	Lt	SS-4	08.50	09.10			30/50/1"									6		Rock		-
P-012-0-20	4326+01	91	Lt	SS-1	01.20	02.70			17		3.50	24	15		39	29		16		A-4a		-
P-012-0-20	4326+01	91	Lt	SS-2	03.50	04.90			19/24/50/5"			17	NP		26	11		9		A-4a		-
P-012-0-20	4326+01	91	Lt	SS-3	06.00	07.50			39			19	NP		20	13		12		A-3a		-
P-012-0-20	4326+01	91	Lt	SS-4	08.50	10.00			88									6		A-7-6		-
P-013-0-20	4327+97	48	Lt	SS-1	01.00	02.50			15		4.00	24	16		40	11		14		A-4a		-
P-013-0-20	4327+97	48	Lt	SS-2	03.50	04.10			31/50/1"			28	17		35	10		6		Rock		-
P-013-0-20	4327+97	48	Lt	SS-3	06.00	06.40			50/5"									6		Rock		-
P-013-0-20	4327+97	48	Lt	SS-4	08.50	08.90			50/5"									7		Rock		-
P-014-0-20	4329+22	31	Rt	SS-1	01.10	02.60			50			NP	NP		13	14		12		A-2-4		-
P-014-0-20	4329+22	31	Rt	SS-2	03.50	04.40			7/50/5"			28	22		41	13		7		Rock		-
P-014-0-20	4329+22	31	Rt	SS-3	06.00	06.40			50/5"									5		Rock		-
P-014-0-20	4329+22	31	Rt	SS-4	08.50	09.20			27/50/2"									4		Rock		-
P-015-0-20	327+44	9	Rt	SS-1	01.00	01.80			23/50/4"			24	19		29	11		4		Rock		-
P-015-0-20	327+44	9	Rt	SS-2	03.50	03.90			50/3"						27	10		5		Rock		-
P-015-0-20	327+44	9	Rt	SS-3	06.00	06.10			50/3"									4		Rock		-
P-015-0-20	327+44	9	Rt	SS-4	08.50	08.75			50/3"									4		Rock		-
P-016-0-20	328+48	42	Lt	SS-1	01.20	02.70			31		4.00	22	17		44	22		10		A-4a		-
P-016-0-20	328+48	42	Lt	SS-2	03.50	04.40			23/50/5"			25	22		65	21		6		Rock		-
P-016-0-20	328+48	42	Lt	SS-3	06.00	06.90			16/50/5"									6		Rock		-
P-016-0-20	328+48	42	Lt	SS-4	08.50	08.90			50/5"									5		Rock		-
P-017-0-20	331+43	8	Rt	SS-1	01.10	02.60			43		4.00	25	18		52	34		13		A-4b		-
P-017-0-20	331+43	8	Rt	SS-2	03.50	04.90			16/47/50/2"		4.00	27	14		39	25		11		A-6a		-
P-017-0-20	331+43	8	Rt	SS-3	06.00	06.90			17/50/5"									8		Rock		-
P-017-0-20	331+43	8	Rt	SS-4	08.50	09.25			29/50/3"									6		Rock		-
P-018-0-20	332+50	11	Lt	SS-1	01.00	02.50			11		3.25	NP	NP		4	9		8		A-1-b		-
P-018-0-20	332+50	11	Lt	SS-2	03.50	05.00			15			17	15		19	13		11		A-2-4		-
P-018-0-20	332+50	11	Lt	SS-3	06.00	07.50			42			21	14		26	35		11		A-4a		-
P-018-0-20	332+50	11	Lt	SS-4	08.50	10.00			67									9		Rock		-
P-019-0-20	334+68	61	Rt	SS-1	01.00	02.50			27			NP	NP		21	16		8		A-4a		-

"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
P-019-0-20	334+68	61	Rt	SS-2	03.50	05.00			8		1.25	21	16		30	16		12		A-4a		-
P-019-0-20	334+68	61	Rt	SS-3	06.00	07.50			6			20	NP		23	12		11		A-3a		-
P-019-0-20	334+68	61	Rt	SS-4	08.50	10.00			7									13		A-2-4		-
P-020-0-20	336+52	50	Lt	SS-1	01.00	02.50			29						18	12		11		A-4a		-
P-020-0-20	336+52	50	Lt	SS-2	03.50	05.00			14									4		A-2-4		-
P-020-0-20	336+52	50	Lt	SS-3	06.00	07.50			14			28	20		55	27		11		A-4b		-
P-020-0-20	336+52	50	Lt	SS-4	08.50	10.00			13			NP	NP		31	7		15		A-4a		-
P-022-0-20	340+04	43	Lt	SS-1	01.20	02.70			36			18	15		28	19		13		A-4a		-
P-022-0-20	340+04	43	Lt	SS-2	03.50	05.00			35			17	15		39	16		11		A-4a		-
P-022-0-20	340+04	43	Lt	SS-3	06.00	07.50			45			16	14		32	12		10		A-4a		-
P-022-0-20	340+04	43	Lt	SS-4	08.50	10.00			15			15	15		28	14		11		A-4a		-
P-024-0-20	344+04	55	Lt	SS-1	01.00	02.50			31			18	17		28	10		9		A-4a		-
P-024-0-20	344+04	55	Lt	SS-2	03.50	05.00			39			21	18		56	23		13		A-4b		-
P-024-0-20	344+04	55	Lt	SS-3	06.00	07.50			38			16	15		28	18		11		A-4a		-
P-024-0-20	344+04	55	Lt	SS-4	08.50	10.00			31			NP	NP		11	3		5		A-3a		-
P-025-0-20	347+84	59	Rt	SS-1	01.00	02.50			36			NP	NP		15	6		7		A-3a		-
P-025-0-20	347+84	59	Rt	SS-2	03.50	05.00			14			14	NP		22	8		9		A-3a		-
P-025-0-20	347+84	59	Rt	SS-3	06.00	07.50			7									7		A-2-4		-
P-025-0-20	347+84	59	Rt	SS-4	08.50	10.00			6									9		A-2-4		-
P-027-0-20	351+75	80	Rt	SS-1	01.00	02.50			35						15	15		11		A-3a		-
P-027-0-20	351+75	80	Rt	SS-2A	03.50	04.25			20						9	3		5		A-2-4		-
P-027-0-20	351+75	80	Rt	SS-2B	04.25	05.00					1.75							12		A-6b		-
P-027-0-20	351+75	80	Rt	SS-3	06.00	07.50			15		2.25	25	15		27	23		14		A-6b		-
P-027-0-20	351+75	80	Rt	SS-4	08.50	10.00			10		3.75							14		A-6b		-
P-028-0-20	352+04	72	Lt	SS-1	01.20	02.70			47			NP	NP		17	12		11		A-3a		-
P-028-0-20	352+04	72	Lt	SS-2	03.50	05.00			10		1.25	20	16		25	15		14		A-4a		-
P-028-0-20	352+04	72	Lt	SS-3	06.00	07.40			4/6/50/5"		4.00	22	15		35	24		13		A-4a		-
P-028-0-20	352+04	72	Lt	SS-4	08.50	08.70			50/2"									5		Rock		-
P-029-0-20	354+06	85	Lt	SS-1	01.10	02.60			33			NP	NP		15	16		10		A-3a		-
P-029-0-20	354+06	85	Lt	SS-2	03.50	05.00			33		4.00	23	16		34	26		11		A-4a		-
P-029-0-20	354+06	85	Lt	SS-3	06.00	07.50			20			19	16		17	16		11		A-2-4		-
P-029-0-20	354+06	85	Lt	SS-4	08.50	10.00			71			17	16		18	17		9		A-3a		-
P-030-0-20	355+21	111	Rt	SS-1	01.00	02.50			28						5	2		8		A-3a		-
P-030-0-20	355+21	111	Rt	SS-2A	03.50	03.75			29			20	18		34	7		10		A-4a		-
P-030-0-20	355+21	111	Rt	SS-2B	03.75	05.00					4.00							13		A-7-6		-
P-030-0-20	355+21	111	Rt	SS-3	06.00	06.40			50/5"									6		Rock		-
P-030-0-20	355+21	111	Rt	SS-4	08.50	08.90			50/5"									6		Rock		-
P-032-0-20	360+05	53	Lt	SS-1	01.00	02.50			99			NP	NP		13	14		9		A-3a		-
P-032-0-20	360+05	53	Lt	SS-2	03.50	03.70			6/50/2"		1.75	20	17		20	15		12		A-3a		-
P-032-0-20	360+05	53	Lt	SS-3	06.00	06.40			50/5"									9		A-2-4		-
P-032-0-20	360+05	53	Lt	SS-4	08.50	08.70			50/2"									8		Rock		-
P-033-0-20	360+37	139	Rt	SS-1	01.00	02.50			63			18	NP		38	10		8		A-4a		-
P-033-0-20	360+37	139	Rt	SS-2	03.50	05.00			15		3.25	27	16		49	26		16		A-6a		-
P-033-0-20	360+37	139	Rt	SS-3A	06.00	07.25			27		3.00							16		A-6a		-
P-033-0-20	360+37	139	Rt	SS-3B	07.25	07.50												10		A-2-4		-
P-033-0-20	360+37	139	Rt	SS-4	08.50	10.00			22		4.00							16		A-6a		-