



LEGEND FOR PROJECT - AVERAGE RESULTS OF TESTS - 121 SAMPLES TESTED

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel	A-1-a(0)	A-1-a	53	27	13	5	2	NP	NP	12	3
Gravel with sand	A-1-b(0)	A-1-b	40	25	18	12	5	NP	NP	13	13
Fine sand	A-3(0)	A-3	3	17	73	5	2	NP	NP	21	2
Coarse and fine sand	—	A-3a	9	10	59	14	8	NP	NP	18	20
Gravel and/or stone fragments with sand and silt	A-2-4(0)	A-2-4	37	18	22	13	10	21	6	16	9
Sandy silt	A-4(4)	A-4a	10	6	30	34	20	15	4	16	35
Silt	A-4(8)	A-4b	1	2	12	59	26	22	7	20	22
Silt and clay	A-6(9)	A-6a	5	4	9	40	42	31	12	19	16
Silty clay	A-6(7)	A-6b	11	14	15	34	26	36	16	26	1
Shale	(Visual classification)										

Sod & Topsoil = X' = Approx. depth. Auger boring - Plan view
 Free water Core boring - Plan view

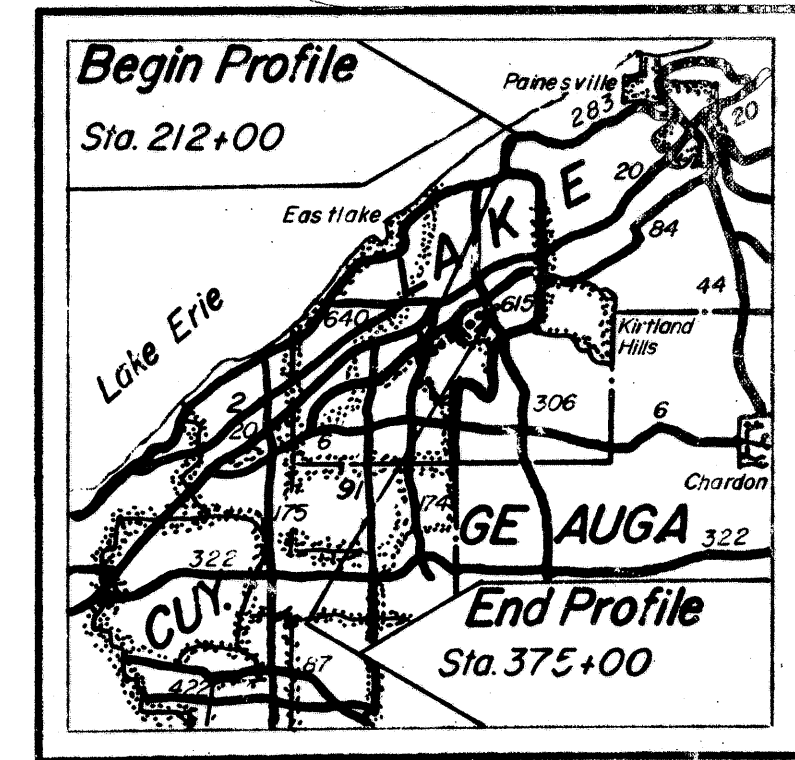
This A-4a soil will be rubbery and unstable at water contents which exceed the optimum.
 Water content nearly equal to or greater than liquid limit.
 Auger boring plotted to vertical scale only.

Samples Taken
 Lab Nos. So. 68375-68385 incl. 68713
 70298-70330 incl. 70409-70420 incl. 70834-70850 incl. 70854-70894 incl. 71736-71739 incl.

Note: Figures in parentheses () indicate number of blows for "Standard Penetration" Test.
 Note: Figures beside borings indicate water content in per cent.

NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.

Fed. No. ACI-90-1-C22)23



LOCATION MAP
 Recon - L.M.T. - 8/2/57
 Auger - C.A.S., R.L.S. - 8/14/57
 Core - D.W.B., R.L.S. - 8/22/57
 Drafting - M.J.H., J.H.W., G.W.M. - 9/12/57

Summary of Soil Test Data

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	LL	PI	% W.C.	SHTL Class.
223+50 CL	0.3-2.0'	1	6	18	44	31	26	6	17	A-4a
	2.0-5.0'	33	13	30	14	10	20	2	16	A-2-4
	5.0-6.0'	49	20	14	9	8	20	9	18	A-2-4
229+50 CL	0.3-3.0'	8	6	59	16	11	NP	NP	15	A-3a
	3.0-4.0'	77	23	26	13	11	NP	NP	15	A-1-b
	4.0-5.0'	0	2	60	20	18	19	3	21	A-4a
233+75 CL	1.0-3.0'	0	2	60	20	18	19	3	21	A-4a
	3.0-6.0'	39	16	15	8	12	28	9	23	A-2-4
	6.0-8.5'	26	5	6	42	21	26	11	12	A-6a
235+50 CL	0.3-3.0'	19	8	17	30	26	23	6	8	A-4a
	3.0-5.0'	35	9	18	35	29	26	8	16	A-4a
	5.0-7.0'	46	0	6	24	18	28	8	23	A-4a
	7.0-10.5'	8	5	5	45	37	28	11	19	A-6a
241+00 CL	0.3-4.0'	6	4	20	69	21	28	8	18	A-4b
	4.0-6.0'	1	2	22	58	17	21	4	30	A-4b
	6.0-7.0'	41	13	14	18	14	23	5	14	A-2-4
	7.0-8.5'	10	9	13	42	26	25	8	10	A-4a
249+00 CL	0.3-3.0'	81	7	4	2	6	25	8	10	A-2-4
	3.0-6.0'	3	6	37	37	17	21	4	13	A-4a
256+50 CL	0.3-6.0'	0	2	9	57	32	28	8	20	A-4b
	6.0-9.0'	0	2	22	55	21	22	4	21	A-4b
	9.0-12.5'	8	14	54	16	8	NP	NP	18	A-3a
	12.5-17.0'	22	12	17	14	6	17	4	19	A-1-b
262+00 CL	0.3-2.0'	0	1	21	51	27	24	5	12	A-4b
	2.0-5.0'	2	2	67	16	13	NP	NP	21	A-3a
	5.0-8.5'	44	12	19	16	9	NP	NP	21	A-1-b
	8.5-10.5'	0	1	17	50	32	25	7	17	A-4b
269+00 CL	0.3-9.5'	3	8	53	22	14	NP	NP	22	A-4a
	9.5-10.5'	0	3	11	39	47	33	14	16	A-6a
	10.5-11.5'	0	1	37	44	18	NP	NP	20	A-4a
274+00 CL	0.3-3.0'	0	1	42	43	14	NP	NP	29	A-4a
	3.0-6.0'	0	1	30	50	19	20	4	21	A-4b
	6.0-10.5'	0	0	6	63	31	29	9	17	A-4b
281+00 CL	0.3-3.0'	0	2	4	60	34	30	5	16	A-4b
	3.0-9.0'	0	0	6	63	31	29	9	17	A-4b
	9.0-16.0'	0	0	8	65	27	23	5	27	A-4b

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	LL	PI	% W.C.	SHTL Class.
288+00 CL	0.3-2.0'	0	2	11	51	36	28	7	18	A-4b
	2.0-4.0'	0	2	5	56	37	28	3	21	A-4b
	4.0-5.0'	0	1	77	14	8	NP	NP	12	A-3a
	5.0-7.0'	0	0	50	34	16	NP	NP	25	A-4a
	7.0-8.5'	6	20	55	15	4	NP	NP	23	A-3a
294+25 CL	0.3-3.0'	0	2	46	42	11	NP	NP	13	A-4a
	3.0-5.0'	0	7	58	27	8	NP	NP	9	A-3a
	5.0-6.0'	12	39	35	13	1	NP	NP	4	A-1-b
	6.0-7.0'	46	26	20	6	2	NP	NP	5	A-1-b
296+00 CL	0.3-3.0'	0	0	14	73	13	25	1	24	A-4b
	3.0-5.0'	27	17	37	16	1	NP	NP	11	A-3a
	5.0-7.5'	52	18	22	7	1	NP	NP	10	A-1-a
305+00 CL	0.3-4.0'	17	5	39	24	15	NP	NP	8	A-4a
	4.0-6.0'	11	14	15	34	26	NP	NP	16	A-6b
	6.0-9.0'	47	29	13	8	3	NP	NP	15	A-1-b
	9.0-13.0'	9	4	7	50	30	22	8	16	A-4b
	13.0-15.0'	4	4	12	51	29	20	3	13	A-4b
306+00 CL	0.3-4.0'	0	8	18	33	45	35	19	19	A-6a
	4.0-6.0'	11	8	47	26	8	NP	NP	22	A-3a
	6.0-9.0'	45	22	17	12	4	NP	NP	16	A-1-b
	9.0-12.0'	6	7	6	45	26	22	8	18	A-4b
313+50 CL	0.3-4.0'	0	7	53	29	21	NP	NP	14	A-4a
	4.0-6.0'	0	4	68	14	14	NP	NP	19	A-3a
	6.0-16.0'	41	23	19	22	5	NP	NP	10	A-3a
314+00 CL	0.3-4.0'	6	7	37	28	22	19	3	16	A-4a
	4.0-6.0'	2	2	42	37	17	NP	NP	25	A-4a
	6.0-16.0'	47	26	10	13	4	NP	NP	10	A-1-b
321+00 CL	0.3-4.0'	6	12	23	38	21	23	4	9	A-4a
	4.0-6.0'	0	4	10	44	45	32	13	19	A-6a
	6.0-9.0'	6	20	47	16	11	22	8	16	A-2-4
	9.0-13.0'	4	18	60	10	8	NP	NP	22	A-3a
328+45 CL	0.3-15.0'	0	7	32	32	29	18	4	13	A-4a
	15.0-22.0'	4	14	72	7	3	NP	NP	20	A-3
	22.0-26.0'	9	6	9	49	27	21	7	15	A-4a
329+15 CL	0.3-6.0'	54	16	14	11	5	NP	NP	7	A-1-b
	6.0-9.0'	6	7	26	45	16	20	6	17	A-4a
	9.0-14.0'	0	1	2	46	27	7	15	14	A-4b
	14.0-16.0'	6	5	8	45	36	27	10	14	A-4a
	16.0-22.0'	56	28	9	6	1	NP	NP	12	A-1-a
	22.0-26.0'	9	6	9	49	27	21	7	15	A-4a

Station & Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	LL	PI	% W.C.	SHTL Class.
334+00 20' Lt.	0.3-2.0'	13	7	24	29	27	30	9	11	A-4a
	2.0-6.0'	17	2	7	36	38	33	14	24	A-6a
	6.0-7.0'	4	3	10	45	38	28	11	15	A-6a
	7.0-9.0'	0	1	4	60	35	24	6	15	A-4b
	9.0-14.0'	38	27	10	16	9	17	4	10	A-1-b
341+15 CL	0.3-3.0'	4	3	5	40	41	29	11	16	A-6a
	3.0-6.0'	26	8	16	26	24	28	9	12	A-4a
	6.0-8.0'	33	10	29	16	12	19	4	14	A-2-4
	8.0-9.0'	2	2	72	8	16	NP	NP	20	A-3a
342+40 CL	0.3-10.0'	13	6	14	46	21	23	4	31	A-4a
	10.0-12.0'	25	22	25	18	10	24	7	22	A-2-4
	12.0-19.0'	18	44	11	5	NP	NP	16	16	A-3a
	19.0-20.0'	5	2	18	59	16	NP	NP	20	A-4b
	20.0-22.0'	0	3	86	8	3	NP	NP	21	A-3a
346+00 CL	0.3-4.0'	35	8	32	16	9	NP	NP	17	A-2-4
	4.0-7.0'	20	9	54	8	9	NP	NP	26	A-3a
	7.0-8.0'	0	1	4	84	11	NP	NP	22	A-4b
	8.0-9.0'	22	15	43	12	8	NP	NP	21	A-3a
354+70 CL	0.3-16.0'	0	3	86	8	3	NP	NP	22	A-3a
	0.3-3.0'	17	10	23	30	20	28	5	12	A-4a
	3.0-6.0'	5	6	24	28	37	29	19	22	A-4b
	6.0-8.0'	6	11	61	12	10	NP	NP	23	A-3a
358+75 CL	0.3-3.0'	29	15	37	11	8	NP	NP	21	A-3a
	3.0-8.0'	6	4	16	36	44	34	11	20	A-6a
	8.0-10.0'	7	21	56	12	4	NP	NP	18	A-3a
	10.0-12.0'	4	5	45	38	8	NP	NP	17	A-4a
360+50 CL	0.3-3.0'	0	6	48	23	23	19			