TE-54-A
200-1-58

MICROFILMED
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E-20

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 201 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	67	16	8	7	2	24	3	14	5
Gravel with sand	A-1-b (0)	A-1-b	52	18	18	9	3	NP	NP	7	3
Fine sand	A-3 (0)	A-3	0	0	92	7	1	NP	NP	30	1
Coarse and fine sand	----	A-3a	3	4	69	17	7	NP	NP	18	28
Gravel with sand and silt	A-2-4 (0)	A-2-4	[illegible]	9	22	11	[illegible]	26	[illegible]	12	4
Sandy silt	A-4 (8)	A-4a	9	6	[illegible]	38	[illegible]	24	5	16	74
Silt	A-4 (8)	A-4b	2	1	4	72	21	27	3	25	27
Silt and clay	A-6 (9)	A-6a	[illegible]	2	8	39	48	31	12	22	52
Silty clay	A-6 (11)	A-6b	3	1	[illegible]	31	[illegible]	30	17	30	3
Clay	A-7-6 (14)	A-7-6	0	1	20	35	44	46	[illegible]	31	4
Shale	VISUAL CLASSIFICATION										

Auger boring-plan view.

Drive sample-core boring-plan view.

Auger boring plotted to vertical scale only.

● Water content nearly equal to or greater than liquid limit.

Number of blows for "Standard Penetration" test.
X=number of blows for the first 6 inches.
Y=number of blows for the second 6 inches.

NOTE: Figures beside borings indicate water content in percent.eg.18

Sod and/or Topsoil=X'=Approximate depth.

Berm material

W Free water

Indicates a non-plastic material with high water content.

Samples Tested
Lab.Nos. So.
17803-17906 incl.,
73346-73426 incl.,
73520-73565 incl.,
73856-73903 incl.,
74126-74137 incl.

SOIL PROFILE
LAKE COUNTY
LAK-2-14.22

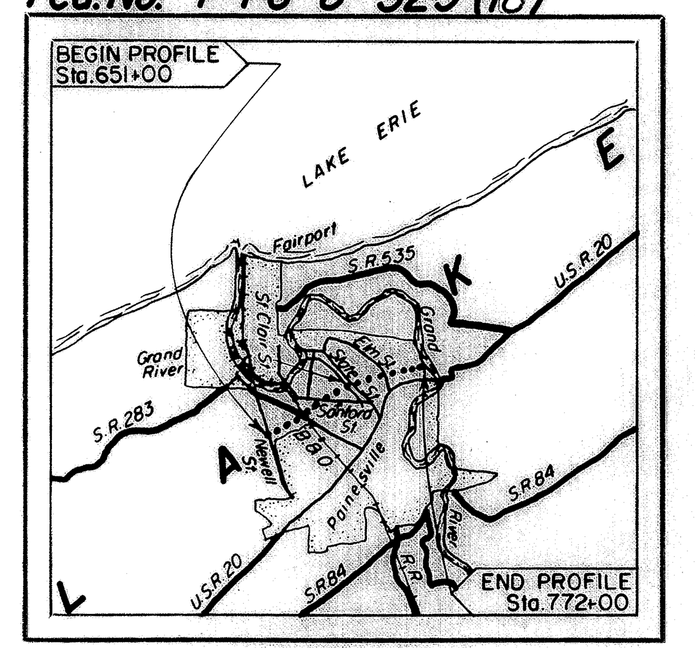
1/5

OHIO STATE HIGHWAY TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

Revised July 30,1959

Fed. No. F-FG-U-329 (18)



LOCATION MAP

Recon.-C.J.K., J.S.M.-5-9-57
Auger-C.E.G., R.W.W.-9-11-to-18-57
Drive Sample-Core-R.L.S., D.W.B.-9-24-57
Drafting-M.J.H., R.V.S., D.L.W., G.V.T., L.N.L.-10-22-57
Drafting (Revised)-H.H.S., H.E.H., M.J.H.-9-3-58

REVISION DRAFTING
Recon.-P.A.H.-4-8-59
Drilling-B.D.L.-4-15-59
Drafting-L.N.L.-7-30-59

SUMMARY OF SOIL TEST DATA

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes sample taken at or near grade.

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
652+50	CL	0.5-2.0	17	7	46	18	12	NP	NP	9	A-3a
		2.0-6.0	9	1	4	34	52	40	17	23	A-6b*
		6.0-10.0	11	8	14	37	30	27	8	16	A-4a
		10.0-15.0	9	10	17	34	30	21	7	12	A-4a
		15.0-20.0	25	6	10	31	28	24	7	12	A-4a
		20.0-25.0	9	8	12	42	29	23	7	10	A-4a
		25.0-30.0	25	8	11	38	18	19	5	8	A-4a
656+50	CL	0.5-4.0	0	4	79	14	3	NP	NP	10	A-3a*
		4.0-6.0	0	0	74	17	9	NP	NP	27	A-3a*
		6.0-9.0	0	4	11	74	11	NP	NP	26	A-4b
		9.0-10.0	0	0	6	42	52	28	11	31	A-6a
661+00	CL	0.5-2.0	0	2	57	21	20	NP	NP	16	A-4a
		2.0-4.0	0	1	59	19	21	31	10	26	A-4a
		4.0-6.0	0	1	4	46	49	28	11	22	A-6a
		6.0-11.0	8	9	12	39	32	21	5	13	A-4a
665+00	CL	0.5-3.0	0	9	72	9	10	NP	NP	7	A-3a
		3.0-5.0	0	1	86	13	0	NP	NP	9	A-3a
		5.0-7.0	0	1	47	36	16	NP	NP	28	A-4a
		7.0-12.0	9	8	14	38	31	22	4	13	A-4a
669+00	CL	0.5-4.0	0	1	68	15	16	NP	NP	23	A-3a
		4.0-10.0	2	2	7	41	48	27	11	20	A-6a
		10.0-15.0	5	9	13	42	31	22	7	15	A-4a
669+00	75'Lt.	0.5-2.0	0	0	63	25	12	NP	NP	20	A-4a
		2.0-4.0	0	0	69	24	7	NP	NP	29	A-3a
		4.0-6.0	0	0	3	59	38	26	7	28	A-4b
		6.0-10.0	6	3	6	39	46	27	3	20	A-4a
674+00	CL	0.5-1.5	0	0	23	48	29	23	8	17	A-4a
		1.5-4.0	0	0	2	39	59	41	19	25	A-7-6
		4.0-7.0	2	2	8	38	50	34	14	24	A-6a
		7.0-12.0	8	6	9	42	35	25	6	14	A-4a
		12.0-20.0	11	7	11	38	33	24	8	13	A-4a
675+00	50'Rt.	0.6-4.0	5	1	2	43	49	34	15	21	A-6a
		4.0-6.0	0	1	5	52	42	29	6	26	A-4b
		6.0-11.0	4	7	10	43	36	26	7	15	A-4a
		11.0-15.0	0	0	0	49	51	30	11	17	A-6a
675+00	100'Rt.	0.3-2.0	0	1	38	32	29	33	12	28	A-6a
		2.0-4.0	0	1	1	32	66	41	13	29	A-7-6
		4.0-6.0	0	2	17	55	26	22	2	23	A-4b
		6.0-8.0	9	9	12	39	31	27	9	15	A-4a
		8.0-15.0	7	7	9	39	38	26	11	13	A-6a
675+00	50'Lt.	0.0-2.0	0	1	27	37	35	30	12	29	A-6a
		2.0-6.0	7	2	10	34	47	34	11	19	A-6a
		6.0-11.0	9	5	9	40	37	27	11	12	A-6a
		11.0-15.0	9	6	9	39	37	35	11	13	A-6a
675+00	100'Lt.	0.0-2.0	0	1	36	32	33	48	22	40	A-7-6
		2.0-4.0	2	2	17	36	43	29	11	21	A-6a
		4.0-6.0	19	8	10	35	29	30	8	17	A-4a
		6.0-13.0	4	6	10	42	38	24	4	13	A-4a
		13.0-16.0	0	2	3	22	73	36	12	21	A-6a
676+00	CL	0.0-2.0	0	0	40	40	20	32	5	47	A-4a
		2.0-5.0	0	1	31	39	29	25	9	25	A-4a
679+50	CL	0.0-1.0	0	3	5	41	51	37	12	22	A-6a
		1.0-2.0	0	1	3	54	42	32	7	29	A-4b
		2.0-4.0	6	4	12	44	34	26	6	18	A-4a
		4.0-10.0	12	7	11	39	31	23	8	13	A-4a
		10.0-15.0	7	4	7	45	37	24	7	14	A-4a
		15.0-20.0	10	4	6	39	41	27	11	15	A-6a
		20.0-22.0	31	7	8	38	16	21	5	8	A-4a
681+00	50'Lt.	0.5-3.0	7	8	23	36	26	30	9	42	A-4a
		3.0-8.0	9	7	11	42	31	28	8	21	A-4a
		8.0-15.0	0	1	2	41	56	28	11	22	A-6a
681+50	25'Lt.	0.5-3.0	5	4	27	43	21	24	5	14	A-4a
		3.0-5.0	3	4	25	43	25	30	11	26	A-6a
		5.0-10.0	8	8	11	40	33	25	9	12	A-4a
		10.0-15.0	5	3	5	42	45	27	11	15	A-6a
		15.0-18.0	19	7	12	36	26	22	7	10	A-4a
686+00	CL	0.5-2.0	0	0	68	24	8	NP	NP	13	A-3a
		2.0-7.0	5	2	7	36	50	32	12	25	A-6a
		7.0-12.0	8	9	16	30	37	22	6	13	A-4a
		12.0-15.0	10	8	12	40	30	23	7	13	A-4a
692+50	CL	0.0-5.0	12	11	45	23	9	NP	NP	40	A-3a
		5.0-9.0	3	0	1	63	33	23	5	40	A-4b
		9.0-12.0	0	1	2	31	66	36	13	21	A-6a
698+90	CL	0.5-3.0	7	4	23	35	31	31	11	22	A-6a
		3.0-9.0	6	3	6	40	45	32	11	23	A-6a
		9.0-15.0	8	5	9	53	25	24	9	15	A-4b
		15.0-20.0	5	4	7	43	41	29	11	15	A-6a
		20.0-25.0	9	8	12	40	31	24	8	10	A-4a
703+00	CL	0.5-5.0	1	0	24	46	29	27	9	33	A-4a
		5.0-7.0	2	1	5	31	61	33	13	23	A-6a
		7.0-12.0	16	7	13	38	26	22	6	14	A-4a
708+50	CL	0.5-3.0	0	0	72	18	10	NP	NP	26	A-3a
		3.0-5.0	0	1	7	79	13	NP	NP	16	A-4b
		5.0-10.0	0	0	1	42	57	29	11	24	A-6a
		10.0-12.0	0	2	6	33	59	35	12	24	A-6a
714+65	CL	0.5-2.0	4	3	58	26	9	NP	NP	26	A-3a
		2.0-6.0	0	0	72	12	16	NP	NP	17	A-3a
		6.0-11.0	0	0	4	41	55	31	11	27	A-6a
		11.0-12.0	0	1	67	24	8	NP	NP	21	A-3a
		12.0-13.0	9	8	11	42	30	22	6	15	A-4a
		13.0-16.0	4	1	52	26	17	NP	NP	22	A-4a
719+00	CL	3.0-5.0	3	2	78	13	4	NP	NP	[illegible]	[illegible]
		5.0-7.0	2	0	83	12	3	NP	NP	[illegible]	[illegible]
		7.0-9.0	0	0	1	81	18	30	1	23	A-4b
		9.0-16.0	0	1	4	30	65	35	11	[illegible]	A-6a
		16.0-17.0	14	12	15	36	23	22	[illegible]	11	[illegible]
722+30	CL	0.3-4.0	0	13	64	23	0	NP	NP	8	A-3a
		4.0-6.0	3	1	84	11	1	NP	NP	24	A-3a
		6.0-7.0	0	0	92	7	1	NP	NP	30	A-3
		7.0-8.0	0	1	2	77	20	28	2	30	A-4b
		8.0-9.0	5	6	11	55	23	22	3	24	A-4b
		9.0-16.0	0	2	5	40	53	33	11	24	A-6a
727+00	CL	0.3-4.0	0	1	71	17	11	NP	NP	22	A-3a
		4.0-5.0	0	1	45	37	17	53	35	28	A-7-6
		5.0-10.0	0	0	2	43	55	34	14	28	A-6a
		15.0-20.0	0	6	10	43	41	28	11	12	A-6a
731+00	CL	2.0-3.0	0	1	85	13	1	NP	NP	24	A-3a*
		3.0-6.0	0	0	2	54	44	28	8	26	A-4b
		6.0-12.0	0	3	6	35	56	33	13	20	A-6a
		12.0-17.0	11	9	12	39	29	24	8	14	A-4a
		17.0-20.0	7	9	14	37	33	24	5	13	A-4a
733+25	CL	0.7-4.0	0	0	45	38	17	20	1	21	A-4a*
		4.0-6.0	0	4	59	29	8	NP	NP	23	A-4a*
		6.0-11.0	0	2	75	17	6	NP	NP	25	A-3a
		11.0-15.5	0	1	70	21	8	NP	NP	25	A-3a
736+00	CL	0.2-2.0	0	1	79	12	8	NP	NP	5	A-3a
		3.0-4.0	0	1	10	58	31	32	12	24	A-6a
		4.0-5.0	0	0	53	33	14	NP	NP	25	A-4a
		5.0-17.0	0	0	51	42	7	NP	NP	22	A-4a*
		17.0-18.0	66	19	8	6	1	NP	NP	16	A-1-a*
		18.0-20.0	28	8	10	30	24	23	6	14	A-4a
741+40	CL	0.2-3.0	9	4	56	18	13	NP	NP	8	A-3a
		3.0-5.0	3	1	9	76	11	NP	NP	22	A-4b
		5.0-7.0	0	0	4	89	7	NP	NP	26	A-4b
		7.0-11.0	2	2	1	47	48	27	11	27	A-6a
		11.0-16.0	7	9	12	42	30	23	7	14	A-4a
		16.0-20.0	17	6	10	33	34	22	2	14	A-4a
744+00	CL	0.2-4.0	60	12	8	14	6	NP	NP	9	A-1-b
		4.0-7.0	6	1	4	81	8	NP	NP	26	A-4b
		7.0-9.0	0	0	2	92	6	NP	NP	21	A-4b
		9.0-13.0	3	3	5	36	53	30	12	23	A-6a
		13.0-14.0	21	9	17	31	22	21	6	13	A-4a
		14.0-15.0	5	0	3	85	7	NP	NP	23	A-4b
		15.0-16.0	12	10	13	37	28	23	5	13	A-4a
748+00	CL	0.2-4.0	26	7	54	10	3	NP	NP	6	A-3a
		4.0-6.0	65	15	12	5	3	NP	NP	10	A-1-a
		6.0-9.0	0	0	2	91	7	NP	NP	25	A-4b
		16.0-20.0	0	1	1	26	72	37	16	33	A-6b
751+00	CL	10.0-14.0	0	0	0	89	11	NP	NP	25	A-4b
		14.0-18.0	0	0	1	48	51	30	13	27	A-6a
		23.0-30.0	10	9	16	38	27	21	4	11	A-4a
753+50	CL	0.2-2.0	0	1	85	12	2	NP	NP	5	A-3a
		2.0-10.0	51	8	30	8	3	NP	NP	8	A-1-b
		10.0-11.0	3	1	1	86	9	NP	NP	23	A-4b
		11.0-15.0	0	0	0	84	16	23	6	26	A-4b
		15.0-19.0	0	1	3	41	55	33	14	27	A-6a
		19.0-24.0	8	10	14	37	31	30	12	14	A-6a
		24.0-30.0	8	10	15	38	29	22	5	12	A-4a
756+00	CL	7.0-10.0	61	19	7	9	4	24	8	9	A-2-4
		10.0-12.0	75	10	4	8	3	27	5	17	A-1-a
759+00	CL	0.3-6.0	32	7	38	18	5	NP	NP	7	A-2-4
		6.0-9.0	8	3	26	46	17	22	7	27	A-4a
		9.0-13.0	77	10	6	6	1	23	5	17	A-1-a
		13.0-16.0	7	2	3	29	59	36	15	25	A-6a
		16.0-25.0	13	9	13	34	31	23	7	14	A-4a
762+00	CL	4.0-8.0	51	26	8	12	3	22	5	12	A-1-a
		8.0-9.0	9	4	3	79	5	NP	NP	22	A-4b
		9.0-10.0	5	2	2	77	14	NP	NP	22	A-4b
		10.0-16.0	0	0	1	46	53	34	13	30	A-6a
		16.0-21.0	4	2	3	46	45	29	11	26	A-6a
		21.0-30.0	7	9	13	44	27	22	7	13	A-4a
765+00	CL	0.4-4.0	3	1	73	15	8	NP	NP	8	A-3a
		15.0-19.0	0	1	6	57	36	26	6	26	A-4b
		19.0-24.0	11	9	11	41	28	22	4	14	A-4a
		24.0-28.0	9	9	13	39	30	22	6	11	A-4a
768+50	CL	0.2-4.0	1	14	72	10	3	NP	NP	4	A-3a
		4.0-6.0	46	33	14	6	1	NP	NP	5	A-1-b
		6.0-9.0	44	8	9	34	5	NP	NP	12	A-4a
		9.0-11.0	0	1	1	63	35	26	6	20	A-4b
		11.0-15.0	0	1	1	84	14	NP	NP	22	A-4b
		15.0-17.0	[illegible]	0	0	38	62	34	12	31	A-6a
		17.0-24.0	10	9	13	40	28	23	8	12	A-4a
		24.0-30.0	[illegible]	8	14	41	29	21	6	12	A-4a
7?1+20	CL	0.0-0.7	1	6	45	34	14	NP	NP	19	A-4a
		0.7-1.5	87	2	3	5	3	28	8	9	A-2-4
BUTTON AVE.											
0+30	CL	0.6-3.0	0	0	3	51	46	36	12	28	A-6a
		3.0-10.0	20	6	11	34	29	NP	NP	12	A-4a
		10.0-15.0	7	2	5	39	47	36	14	14	A-6a
		15.0-22.0	15	7	12	34	32	27	11	10	A-6a
3+00	12'Rt.	0.6-5.0	2	2	40	21	35	29	12	24	A-6a
		5.0-12.0	9	6	12	41	32	29	7	14	A-4a
6+00	21'Rt.	0.6-6.0	0	0	3	45	52	40	12	23	A-6a
		6.0-10.0	13	6	12	41	28	25	6	13	A-4a
ELM ST.											
27+50	18'Lt.	0.6-9.0	1	1	38	42	18	NP	NP	26	A-4a
		9.0-11.0	0	0	1	50	49	31	7	24	A-4b
32+00	12'Lt.	0.6-6.0	32	6	38	14	10	NP	NP	21	A-2-4*
		6.0-12.0	0	0	3	35	62	35	11	23	A-6a
35+00	12'Lt.	0.6-7.0	0	1	31	38	30	25	4	13	A-4a*
		7.0-10.0	8	4	9	37	42	29	11	16	A-6a