FED. RD. DIVISION	STATE	PROJECT		(60/62)
2	OHIO			

MUSKINGUM COUNTY
MUS-156-2.85

LEGEND FOR PROJECT — AVERAGE RESULTS OF 61 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTIC INDEX	WATER CONTENT	SAMPLES TESTED
Gravel and/or Stone Fragments	A-1-a(0)	A-1-a	67	11	14	8	0	NP	NP	43	1
Gravel and/or Stone Fragments w/sand	A-1-b(0)	A-1-b	39	30	16	11	4	NP	NP	12	7
Gravel and Fine Sand	-	A-3-a	7	9	55	19	10	NP	NP	17	12
Gravel and/or Stone Fragments w/sand & silt	A-2-4(0)	A-2-4	47	13	11	21	8	31	6	19	3
Sandy Silt	A-4-(3)	A-4-a	16	6	28	35	15	23	4	17	22
Silt	A-4(8)	A-4-b	2	2	8	64	24	30	4	20	14
Elastic Silt & Clay	A-5(8)	A-5	4	2	7	45	42	42	5	24	1
Silty Clay	A-6(14)	A-6-b	3	3	3	46	45	40	25	22	1

Sod and Top Soil — Visual Classification

Overburden — Visual Classification

Rock and Soil Mixtures — Visual Classification

Sandstone — Visual Classification

Shale — Visual Classification

W—— Free Water Level

Auger and core borings Ploted to vertical scale only

Auger boring - Plan View

Core boring - Plan View

Water content nearly equal To or greater than Liquid Limit.

Notes:
(1) Figures beside borings indicate Water content in per cent.
(2) NP for Liquid Limit & Plastic Index indicates non-plastic sample.
(3) T.S. = x' above borings indicate depth of top soil.
(4) Samples taken are: Lab. Nos. SO-1 to 9 incl. & SO-11 to 62 incl.

NOTE: The information shown by this subgrade profile was secured for the use of the State of Ohio and the Corps of Engineers and is not to be construed as a part of the plans governing the construction of the project.

SUMMARY OF SOIL TEST DATA

Station ℄ or Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class
147+00(14'Lt)	1.0'-2.3'	19	3	5	47	26	34	8	26	A-4a
	2.3'-4.0'	2	9	13	46	30	29	6	25	A-4a
	4.0'-6.5'	60	3	4	20	13	31	5	23	A-2-4
	6.5'-7.5'	2	3	52	23	20	22	2	23	A-4a
	7.5'-8.0'	1	2	6	66	25	29	4	24	A-4b
151+00(14'Lt)	0.5'-3.0'	0	1	1	82	16	27	2	20	A-4b
	3.0'-4.1'	2	1	5	72	20	26	2	6	A-4b
	4.1'-7.9'	0	2	5	69	24	27	6	21	A-4b
	7.9'-8.3'	8	10	26	39	17	20	3	17	A-4a
155+00(℄)	0.8'-3.0'	1	7	68	15	9	NP	NP	18	A-3a
	3.0'-3.6'	1	4	39	43	13	22	5	21	A-4a
	3.6'-8.0'	2	15	48	23	12	NP	NP	15	A-3a
159+00(℄)	0.5'-6.0'	1	15	54	17	13	NP	NP	12	A-3a
	6.0'-9.0'	3	12	51	26	8	NP	NP	19	A-3a
	9.0'-10.5'	4	6	32	50	8	NP	NP	23	A-4a
	10.5'-12.0'	34	35	14	11	6	NP	NP	7	A-1b
163+06.56(℄)	0.5'-3.0'	1	1	3	62	33	33	2	23	A-4b
	3.0'-4.4'	0	5	1	69	25	39	12	25	A-4b
	4.4'-6.2'	0	2	13	59	26	31	2	21	A-4b
	6.2'-8.0'	42	17	11	24	6	32	7	19	A-2-4
167+00(℄)	0.8'-2.8'	1	16	32	39	12	20	1	16	A-4a
	2.8'-4.8'	51	18	15	13	3	NP	NP	10	A-1b
	4.8'-7.0'	36	30	14	17	3	25	1	17	A-1b
	7.0'-8.0'	46	22	13	14	5	26	3	20	A-1b
171+00(℄)	1.2'-2.5'	11	16	43	24	6	NP	NP	7	A-3a
	2.5'-5.4'	42	28	19	10	1	NP	NP	7	A-1b
	5.4'-8.0'	67	11	14	8	0	NP	NP	43	A-1a
173+50(℄)	1.0'-4.0'	40	30	15	11	4	NP	NP	11	A-1b
	4.0'-8.0'	21	47	24	1	7	NP	NP	11	A-1b
177+50(℄)	0.6'-2.0'	19	9	28	33	11	19	1	16	A-4a
	2.0'-5.2'	38	21	17	18	6	NP	NP	14	A-2-4
	5.2'-6.0'	23	18	23	26	10	20	1	17	A-4a

Station ℄ or Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	SHTL Class
179+50(℄)	1.0'-3.8'	25	9	27	29	10	19	2	18	A-4a
	3.8'-5.0'	14	19	41	19	7	NP	NP	16	A-3a
181+50(℄)	1.5'-3.2'	27	3	29	23	18	23	3	17	A-4a
	3.2'-4.8'	46	1	15	25	13	26	2	15	A-4a
	4.8'-8.0'	17	9	28	31	15	22	1	21	A-4a
185+00(℄)	0.7'-2.3'	20	4	34	28	14	18	2	19	A-4a
	2.3'-7.0'	10	4	58	17	11	NP	NP	17	A-3a
	7.0'-8.0'	4	5	61	21	9	NP	NP	28	A-3a
189+00(℄)	1.1'-4.0'	1	2	33	55	9	20	1	16	A-4b
	4.0'-6.0'	10	4	58	17	11	NP	NP	21	A-3a
	6.0'-7.8'	10	4	58	17	11	NP	NP	17	A-3a
191+75(℄)	1.0'-2.5'	21	4	26	29	20	24	4	16	A-4a
191+50(℄)	1.0'-5.0'	22	4	32	33	9	NP	NP	16	A-4a
	5.0'-5.5'	8	8	59	13	12	NP	NP	13	A-3a
	5.5'-6.5'	2	1	63	23	11	NP	NP	18	A-3a
+(75 195+(50 (℄)	0.6'-2.8'	4	2	7	45	42	42	5	24	A-5
	2.8'-4.3'	12	5	3	53	27	32	1	16	A-4b
	4.3'-5.5'	14	5	13	44	24	28	5	15	A-4a
199+00(℄)	0.6'-2.5'	28	5	11	38	18	31	7	24	A-4a
	2.5'-3.2'	3	3	3	46	45	40	25	22	A-6b
	3.2'-4.2'	1	2	2	55	40	39	8	20	A-4b
	4.2'-5.0'	3	1	2	50	44	30	3	17	A-4b
202+50(℄)	0.8'-3.8'	22	5	33	29	11	21	3	15	A-4a
205+50	0.0'-6.5'	0	1	7	74	18	29	5	17	A-4b
	6.5'-8.0'	0	1	7	74	18	29	5	22	A-4b
209+50(12'Rt)	1.0'-2.8'	7	2	21	62	8	27	4	20	A-4b
	2.8'-5.8'	7	4	35	39	15	23	9	19	A-4a
	5.8'-6.9'	7	4	35	39	15	23	9	18	A-4a
	6.9'-9.0'	12	5	42	28	13	20	1	16	A-4a

REVISION	DATE	DESCRIPTION	BY

U. S. ARMY ENGINEER DISTRICT, HUNTINGTON
CORPS OF ENGINEERS
HUNTINGTON, W. VA.

DRAWN BY:
TRACED BY:
CHECKED BY: SEW
SUBMITTED BY: Elmer S. Barrett
ELMER S. BARRETT ASSOCIATES
RECOMMENDED: James J. Basmajian, CHIEF ENG. DIV.

LICKING RIVER
DILLON RESERVOIR PROJECT
RELOCATION OF
OHIO STATE ROUTE NO. 156
(Section 3 & 4)

APPROVED: R. J. Davidson, COL. C.E., DISTRICT ENGINEER
DATE: JULY 1959

ELMER S. BARRETT ASSOCIATES
CONSULTING ENGINEERS
CHILLICOTHE, OHIO

SCALE:
SPEC. NO.
DRAWING NUMBER 027f-UD6-68/60
SHEET 60 OF 62

SUMMARY OF SOIL TEST