

GENERAL INFORMATION

INTRODUCTION

The project consists primarily of the major relocation of 1.2 miles of SR 528, beginning south of the village of Thompson, approximately 1000 feet south of the intersection of SR 528 - 1000 feet north of the intersection, and proceeding northward, crossing SR 528, and terminating at the south of the Thompson corporation limit, 1000 feet north of the SR 528 - SR 307 junction.

The proposed grade indicates generally moderate depth of cut and height of fill with maximum depth of cut of approximately 22 feet, and fill embankment on the order of 12 feet in height. The Grand River will be spanned by a major structure.

GENERAL DESCRIPTION OF THE SITE

The alignment traverses a portion of the glaciated Allegheny Plateau (deeply dissected by the Grand River crossing and moderately dissected throughout the remainder of the project) overlain by the glacial till which ranges from 5 to 30 feet in thickness, along with sand, silt, and clay, and from 0 to 14 feet in the valley of the Grand River. Local bedrock consists of shales, Devonian in age.

CONSTRUCTION

Exploratory borings were made by means of truck mounted mechanical earth auger, hand auger, and auger (in areas of difficult access), between June 23 and 30, 1960, and by means of a drill rig for soil profile and for the proposed Grand River structure, between April 21 and June 22, 1960.

MINISTICAL DISCLOSURES

Borings disclose the materials immediately below grade to consist predominantly of sandy silt and silt clay, in the A-1a and A-1b classification, as well as weathered shale bedrock. From 10 to 20 feet below grade, silts were encountered at grade at Station 0+00, between Stations 13+00 and 24+00, and at Station 25+00. It is anticipated weathered shale bedrock will be encountered in the cut between Stations 29+00 and 32+75.

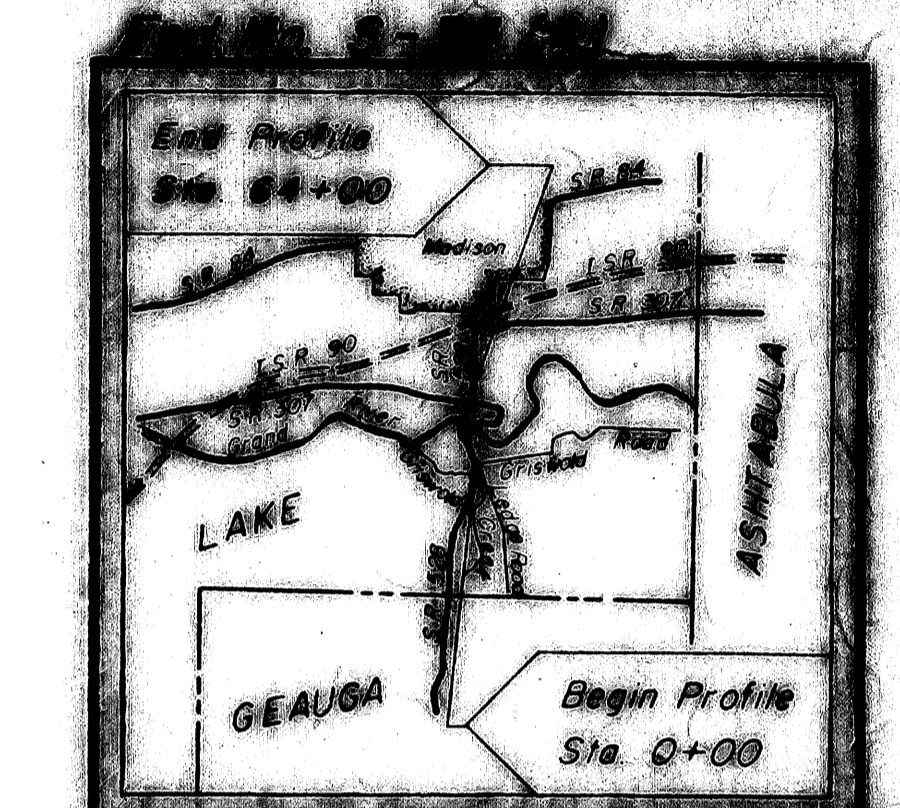
Materials in the embankment foundations consist predominantly of silt clay and sandy silt, in the A-1a and A-1b classifications, respectively. Wet, soft, somewhat compressible silts (silty clay, and clays) approximately 5 feet in thickness were encountered at station 0+00, 50 feet left, and quite likely occur over the area left of centerline between approximately stations 5+00 and 7+50. In the lake bottom, between approximately stations 7+00 and 11+00, borings encountered on the order of a foot of muck overlying unyielding material - quite likely shale bedrock. Soft, wet silty and silt clays, on the order of 5 feet in thickness also occur between approximately stations 11+00 and 12+00. At station 37+00, immediately beneath the rear abutment of the structure 14 feet of wet at-surface, somewhat compressible silts are underlain by shale bedrock.

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 147 SAMPLES TESTED

Table with columns: DESCRIPTION, U.S.S. CLASS, U.S.S. CLASS, % AGG., % C. SAND, % F. SAND, % SILT, % CLAY, LIQUID LIMIT, PLASTICITY INDEX, WATER CONTENT, SAMPLES TESTED. Includes visual classification and test results for various soil types like Stone fragments with sand, Elastic silt and clay, etc.

SOIL PROFILE  
LAKES COUNTY  
LAK-600-124  
OHIO STATE HIGHWAY  
TESTING LABORATORY  
O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: INFORMATION SHOWN BY THIS PROFILE FILE AND SOIL TEST RESULTS ARE FOR THE SOILS DESCRIBED IN THE PROFILE. THE SOILS IN THIS PROFILE ARE NOT TO BE USED AS A BASIS FOR DESIGN OR CONSTRUCTION OF STRUCTURES OR PLANS CONCERNING CONSTRUCTION OF THE PROJECT.



LOCATION MAP  
Recon - N.P.L. - 5/10/60 to 5/12/60 incl.  
Auger - E.F.M. - 6/23/60 to 6/30/60  
Drive Sample - A.W.H., J.H.S., A.V. - 4/21/60 to 6/22/60  
Drafting - D.M. - 8/2/60

SUMMARY OF SOIL TEST DATA

Table with columns: STATION & OFFSET, DEPTH, % AGG., % C.S., % F.S., % SILT, % CLAY, L.L., P.I., W.C., CLASS. Includes notes: NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic. \*Denotes sample taken at or near grade.

Table with columns: STATION & OFFSET, DEPTH, % AGG., % C.S., % F.S., % SILT, % CLAY, L.L., P.I., W.C., CLASS. This is the leftmost data table in the summary section.

Table with columns: STATION & OFFSET, DEPTH, % AGG., % C.S., % F.S., % SILT, % CLAY, L.L., P.I., W.C., CLASS. This is the rightmost data table in the summary section.

DRIVE SAMPLE BORING SOIL TEST DATA  
NOTE: Classification characteristics in parentheses indicate test data for a sample determined by visual examination to have characteristics essentially the same as the sample obtained as representative of the given interval.