

SURVEY OF HIGHWAY CONSTRUCTION MATERIALS
IN THE TOWN OF PITTSFORD, RUTLAND COUNTY, VERMONT

prepared by

Engineering Geology Section, Materials Division
Vermont Department of Highways

in cooperation with

United States Department of Commerce
Bureau of Public Roads

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Acknowledgments

The work of this Project was greatly implemented by the cooperation and assistance of many groups and individuals. The following were particularly helpful in carrying out the Project's objectives:

1. Various departments and individuals of the Vermont State Department of Highways, notably the Planning and Mapping Division and the Highway Testing Laboratory,
2. Professor D.P. Stewart of Miami University, Oxford, Ohio,
3. Professor C.G. Doll, Vermont State Geologist, University of Vermont, Burlington, Vermont,
4. United States Department of Commerce, Bureau of Public Roads.

History

The Materials Survey Project was formed in 1957 by the Vermont State Department of Highways with the assistance of the United States Bureau of Public Roads. Its prime objective was to compile an inventory of highway construction materials in the State of Vermont. Prior to the efforts of the personnel of the Survey as described in this and other reports, searches for highway construction materials were conducted only as the immediate situation required. Thus only limited areas were surveyed, and no overall picture of material resources was available. Highway contractors or resident engineers are usually required to locate the materials for their respective projects and have samples tested by the Highway Testing Laboratory. The additional cost of exploration for construction materials is passed onto the State in the form of higher construction costs. The Materials Survey Project was established to minimize or eliminate this factor by enabling the State and its contractors to proceed with information

on material sources available beforehand. Prior knowledge of locations of suitable material is an important factor in planning future highways.

The sources of construction materials are located by this Project through ground reconnaissance, study of maps and aerial photographs, and geological and physiographic interpretation. Maps, data sheets, and work sheets for reporting the findings of the Project were designed with their intended use in mind. These maps and data sheets were devised to furnish information of particular use to the contractor or construction man. For maximum benefit, the maps, data sheets, and this report should be studied simultaneously.

Incllosures

Included in this folder are two surface-geology maps, one defining the location of tests conducted on bedrock sources, the other defining the location of tests conducted on granular materials. These maps are derived from 15-minute or 7½-minute quadrangles of the United States Geological Survey enlarged or reduced to 1:31250 or 1" = 2604'. Delineated on the Bedrock Map are the various rock types of the area. This information was obtained from numerous sources: Vermont Geological Survey Bulletins, Vermont State Geologist Reports, United States Geological Survey Bedrock Maps, and the Centennial Geological Map of Vermont, as well as other references.

The granular materials map depicts areas covered by various types of glacial deposits (outwash, moraines, kames, kame terraces, eskers, etc.) by which potential sources of gravel and sand may be recognized. This information was obtained primarily from a survey being conducted by Professor D.P. Stewart of Miami University, Oxford, Ohio, who has been mapping the glacial features of the State of Vermont during the summer months since

1956. Further information was obtained from the Soil Survey (Reconnaissance) of Vermont conducted by the Bureau of Chemistry and Soils of the United States Department of Agriculture, and from Vermont Geological Survey Bulletins, United States Geological Survey Quadrangles, aerial photographs, and other sources. On both maps the areas tested are represented by Identification Numbers. Several tests are usually conducted in each area represented by an Identification Number, the number of such tests being more or less arbitrarily determined either by the character of the material or by the topography.

Also included in this folder are data sheets for both the Bedrock and Granular Materials Survey, which contain detailed information for each test conducted by the Project as well as information obtained from other sources, and including an active card file compiled by the Highway Testing Laboratory. The latter information was gathered over a period of years by many persons and consequently lacks the organized approach and detail required for effective use. The information on the cards varied widely in completeness. Transfer of information from the cards to the data sheets was made without elaboration or verification. When possible, the locations of the deposits listed in the card files have also been plotted on the maps; however, some cards in the file were not used because the information on the location of the deposit was incomplete or unidentifiable. Caution should be exercised wherever this information appears incomplete. This Project does not assume responsibility for the information taken from the card files.

Work sheets contain more detailed information on each test and a detailed sketch of each Identification Number Area. The work sheets and laboratory reports are on file in the office headquarters of this Project.

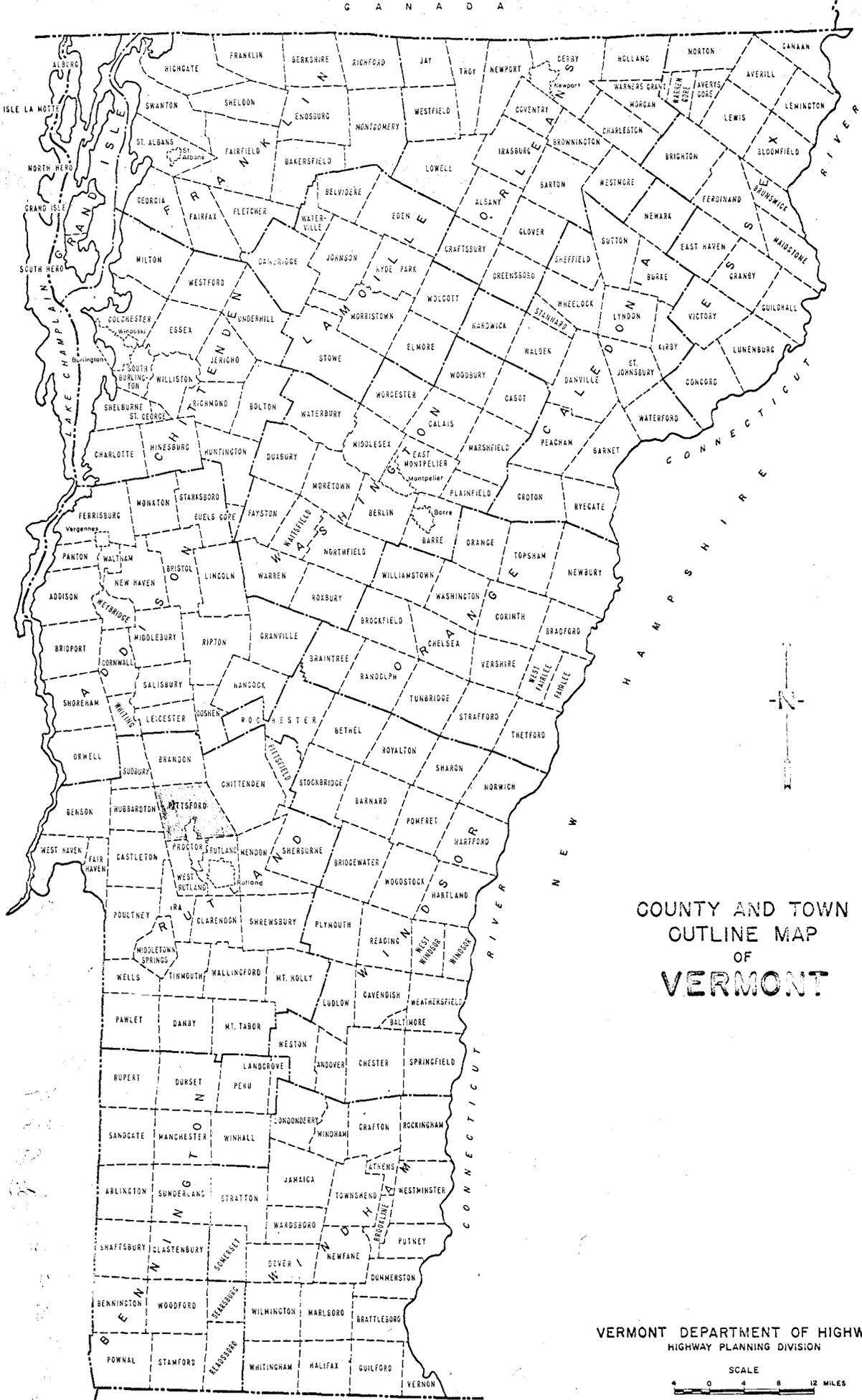
LOCATION

The town of Pittsford is located in the north-central part of Rutland County in the southwest part of the State. Pittsford lies in the northeast part of the Castleton Quadrangle, the northwest corner of the Rutland Quadrangle, and the extreme southeast edge of the Brandon Quadrangle. It is bounded on the south by the towns of West Rutland, Proctor, and Rutland; on the east and northeast by Chittenden, on the north by Brandon, on the west by Hubbardton, and on the southwest by Castleton. (See County and Town Outline Map of Vermont on the following page.)

The extreme eastern and southeastern part of Pittsford lies in the Green Mountains Physiographic Region. The mountains, having an average height of about 1,200', with three summits of 1,400', 1,600', and 1,750', rise above the Vermont Valley Physiographic Region to the west. The Valley occupies the central part of the township and contains the northward-flowing Otter Creek, with an elevation of nearly 380' in the south, and about 360' in the north. The Valley is just over four miles wide in the south. It widens to six miles in the central section, then narrows to about four and one-half miles in the north.

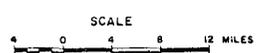
An area, one to two miles wide, along the west side of Pittsford, is in the Taconic Mountain Physiographic Region. This region lies mostly above 700', and has three peaks just over 2,000'.

Three streams in the east section of Pittsford; Little Brook, Furnace Brook, and Sugar Hollow Brook, flow southwest into Otter Creek. There are many tiny, unnamed streams on the west side of town which drain from the Taconic Mountain Physiographic Region eastward into Otter Creek.



COUNTY AND TOWN
 OUTLINE MAP
 OF
VERMONT

VERMONT DEPARTMENT OF HIGHWAYS
 HIGHWAY PLANNING DIVISION



AUGUST, 1967

SURVEY OF ROCK SOURCES

Procedure for Rock Survey

The routine employed by the project in a survey of possible sources of rock for highway construction is divided into two main stages; office and field investigations.

The office investigation is conducted primarily during the winter months and comprises the mapping and description of rock types as indicated in various reference sources. Many different sources of information are utilized, as indicated in the bibliography. These references differ considerably in dependability due to new developments and studies that have contributed to the obsolescence of a number of reports. In addition, the results of samples taken by other individuals are analyzed, and the location at which these samples were taken is mapped when possible. In other words, as complete a correlation as possible is made of all the information available concerning the geology of the area under consideration.

The field investigation is begun by making a cursory preliminary survey of the entire area. The information obtained in the preliminary survey, together with the information assimilated in the office investigation, is employed to determine the areas where testing and sampling will be concentrated. When a promising source has been determined by rock type, volume of material, accessibility, and adequate exposure and relief, chip samples are taken with a hammer across the strike or trend of the rock. The samples are submitted to the Material Testing Laboratory for abrasion testing both by the Deval Method (AASHO T-3) and the Los Angeles Method (AASHO T-96). It should be kept in mind that the samples taken by the chip method are often within the weathered zone of the outcrop and consequently may give a less satisfactory test result than fresh material deeper in the rock structure. When the material is uniform and acceptable abrasion tests result from the chip samples, the material source is included in this report as being satisfactory.

Discussion of Rock and Rock Sources

It should be noted that information on the Rock Materials Map is somewhat simplified. (For a more detailed description of the respective rock formations, see the Summary of Rock Formations included in this report.)

In addition, it should be realized that occasionally rocks belonging to the same formation and exhibiting similar characteristics (i. e., color, texture, etc.) may produce different abrasion results due to different physical and chemical properties. Therefore, in no case should satisfactory test results of an area be construed to mean that the same formation, even in the same area will not later produce unsatisfactory material. This is especially true of metamorphic rocks.

The rocks of Pittsford are divided into three stratigraphic and structural sequences. The Taconic Sequence of slates and phyllites, with minor amounts of quartzite and carbonate rocks, upholds the Taconic Mountains in the western quarter of the town. East of the Taconic Region lies the Vermont Valley Sequence of quartzites and carbonate rocks which occupies about two-thirds of the town. Rocks of the Green Mountain Sequence are found mostly in the southeast corner, and in portions along the east boundary of the town.

The major rock formations of the Taconics, in Pittsford, are the St. Catherine, composed of slates and phyllites, and a less extensive formation, the Brezee, which is mainly phyllite with some marble. There are no rocks of the Taconic Sequence which are suitable for Sub-base of Crushed Rock, Item 204.

The Green Mountain Sequence is shown on the rock map. (See Plate II) However, no outcrops were found in Pittsford, probably due to a mantle of glacial till.

The Valley Sequence of quartzites and carbonates is the best source of Item 204 in Pittsford. Within the Valley Sequence, Map Identification Numbers 5 and 6 are the best potential crushed rock producing areas.

Map Identification Number 5 is a long, low ridge west of, and parallel to, State Aid Highway No. 1, and south of Town Highway No. 19. Outcrops of the Winooski dolomite are well-exposed and would be easy to develop because they are easily accessible.

The Winooski is a buff-weathered, pink, buff, and gray dolomite with beds four inches to one foot thick, separated by thin, protruding red, pink, green, and black siliceous partings. The owner stated he would sell material.

Map Identification No. 6 is on the southwest flank of Cox Mountain, east of U. S. Route 7. The outcrops would have to be developed to the east, as the owner of the land to the north did not want any sampling on his property. Here the Cheshire quartzite is very massive, white to faintly pink or buff, and vitreous. Besides having rock with good abrasion properties,

both areas:

1. are quite close to the approximate location of the project line.
2. have ample amount of rock.
3. have good access.
4. owners are willing to sell material
5. have adequate space to set up a crushing operation.

Map Identification No. 3, in the Danby Formation, has exposures of white vitreous or glassy quartzite, interbedded with gray dolomite. White quartzite beds, more than a foot thick, are separated by 10 to 12 feet of dolomite.

Map Identification No. 8 is in the Monkton Formation. This area has relatively thick sections of dolomite, like that of the Winooski. Map Identification Numbers 1, 2, 4, 7, 9, and 10 are mapped as the Shelburne Formation, which is chiefly a white marble or gray limestone. Map Identification Numbers 4, 7, 9, and 10 are accessible by road and rail. The above rock areas in Pittsford are not as desirable as Map Identification Numbers 5 and 6 for

any of the following reasons:

1. Insufficient amount of rock.
2. Too far from approximate location of the project line.
3. Too thin-bedded.
4. Rather high results on abrasion tests.
5. Difficult access.
6. Insufficient area to set up a crushing operation.

Samples from all areas tested in Pittsford passed the AASHO T-3 abrasion requirements for Sub-base of Crushed Rock, Item 204. However, in Map Identification Numbers 2,4, and 9 the rock failed the AASHO T-96 abrasion requirements.

SURVEY OF SAND AND GRAVEL SOURCES

Procedure for Sand and Gravel Survey

The method employed by the project in a survey of possible sources of sand and gravel for highway construction is divided into two main stages; office and field investigations.

The office investigation is conducted primarily during the winter months and comprises the mapping of possible potentially productive areas as indicated from various references. Of these references, the survey of glacial deposits mapped by Professor Stewart proves to be valuable, particularly when used in conjunction with other references such as soil-type maps, aerial photographs, and United States Geological Survey quadrangles. The last two are used in the recognition and location of physiographic features indicating glacial deposits and in the study of drainage patterns. In addition, the locations of existing pits are mapped when known. The locations in which samples were taken by other individuals are noted and mapped when possible.

The field investigation is begun by making a cursory preliminary survey of the entire town. All pits and other areas which show physiographic features that give evidence of glacial or fluvial deposition are noted. These locations are later investigated by obtaining samples of pit faces and other exposed materials. Tests pits, dug with a backhoe to a depth of approximately 11 feet, are also sampled. The samples are submitted to the Materials Testing Laboratory where they are tested for gradation and stone abrasion, the latter by the Deval Method (AASHO T-4).

Discussion of Sand and Gravel Deposits

The granular deposits in Pittsford occur as sands and gravels of ice-contact origin deposited as kame terraces, kame moraines, kames, or as material deposited as proglacial outwash and fluvial gravels. Many ice-contact features have been mapped in Pittsford by D. P. Stewart. The following Map Identification Numbers have material acceptable for Sub-base of Gravel, Item 201: 3, 4, 5, 12, 19, 23, 25, 28, 30, 31, 32, 37, 38, 39, 40, 42, 44, 45, 47, 49, 52, 53, 54, 55, 56, 58, and 65. Map Identification Numbers 5, 19, 37, 38, 39, 42, 47, 49, and 52 have pits and would be the most promising. The Highway Department may have been using material from Map Identification No. 39 since late October, so available amounts may be less than when sampled. Overall the four best areas for Sub-base of Gravel, Item 201 are Map Identification Numbers, 19, 42, 49, and 52.

Map Identification Numbers 23, 43, 45, 53, 54, 55, 56, and 58 may be considered as sources for the following reasons:

1. Proximity to approximate location of the project line.
2. Possible extensions of areas having acceptable material.
3. Development may show adequate supply.

Map Identification Numbers 3, 4, 12, 25, 28, 30, 31, 32, 44, and 65 are not as desirable because of any of the following reasons:

1. Limited material.
2. Very coarse material.
3. Not close to the approximately location of the project line.
4. Owner does not want to sell material.
5. Town law concerning developing only those areas which have an existing pit. Interested parties should check with the town clerk on any change of this law.

The best sources of Sub-base of Sand, Item 202 are Map Identification Numbers 26, 41, 59, 64, and 68. Other areas which may not be quite as

satisfactory are Map Identification Numbers 6, 19, 23, 24, 37, 38, 39, 43, 58, 62, 63, 66, and 69.

The following Map Identification Numbers could probably be used as sources of Sub-base of Sand, Item 202 for small, local projects: 7, 11, 12, 16, 45, 47, 48, 50, 55, 56, 70, and 73.

SUMMARY OF ROCK FORMATIONS IN THE TOWN OF PITTSFORD

TACONIC SEQUENCE

Hatch Hill-West Castleton Formation (undifferentiated) - The Hatch Hill, a relatively thin formation that succeeds the West Castleton, is characterized by rusty spongy and weathered gray calcareous quartzite traversed by numerous white-quartz veins. The West Castleton is a gray to black, siliceous, carbonaceous, and pyritiferous slate containing paper-thin white sandy laminae. Black slates are common to both formations. A blue-gray weathered black limestone is near the base of the West Castleton in a few places.

St. Catherine Formation - Purple, gray-green, and variegated slate and phyllite containing minor interbeds of white to green quartzite; locally albitic. Purple and green chloritoid-bearing slate and phyllite is in northern Taconic Range, but not separated farther south.

Zion Hill Quartzite Member - White-weathered green, vitreous, chloritic quartzite and graywacke spotted with limonite.

Bomoseen Graywacke Member - Green to olive-colored arkose and graywacke that weathers pale-red to white; contains visible flakes of mica and rock fragments.

Breeze Formation - Dark gray to black phyllite with beds of blue-gray marble, dark gray dolomite, sandy dolomite, and dolomitic sandstone, in upper part; beds of massive quartzite as much as 20 feet thick occur locally and in places contain pebbles of blue quartz. Phyllites are locally highly albitic.

VERMONT VALLEY SEQUENCE

Hortonville Formation - Black, carbonaceous and pyritic slate and phyllite, locally sandy; brown weathered limy beds are common near base.

Glens Falls-Orwell Limestones (undifferentiated) - Combined where deformation has made the two lithologies indistinguishable. Thick-bedded, sublithographic to lithographic, dove-gray weathered limestone cut by white calcite veins (Orwell) is generally succeeded by thin-bedded, dark blue-gray, coarsely granular limestone.

Beldens Member (of the Chipman Formation) - Interbedded buff to brown, heavily scored dolomite, and white to blue-gray marble and limestone.

Weybridge Member (of the Chipman Formation) - Gray limestone with thin interbeds of sandy limestone $\frac{1}{2}$ to 2 inches thick and 1 to 4 inches apart.

Burchards Member (of the Chipman Formation) - Blue-gray limestone with irregular spots of light buff dolomite that give weathered surface a mottled appearance.

Bascom Formation - Interbedded dolomite, limestone or marble, calcareous sandstone, quartzite, and limestone breccia; irregular dolomitic layers, thin sandy laminae, and slaty or phyllitic partings characterize limestone and marble of lower, middle, and upper parts of the Bascom, respectively; south of West Rutland it includes some of Chipman formation.

Cutting Dolomite - Typically, a massive, gray-weathered, non-descript dolomite with a finely laminated calcareous sandstone at the base.

Shelburne Formation - Chiefly a white marble or gray limestone characterized by raised reticulate lines of gray dolomite on the weathered surface.

Clarendon Springs Dolomite - Fairly uniform, massive, smooth-weathered gray dolomite characterized by numerous geodes and knots of white quartz; quartz sandstone and irregular masses of chert are near the top.

Danby Formation - Comprised of white vitreous or glassy quartzite beds, often cross-laminated, interbedded with gray dolomite. White quartzite beds, more than a foot thick, separated by 10 to 12 feet of dolomite in eastern areas, increase westward to continuous sections of white to pink weathered, massively bedded Potsdam quartzite, west of Orwell thrust.

Winooski Dolomite - Buff-weathered, pink, buff, and gray dolomite; beds 4 inches to 1 foot thick separated by thin, protruding, red, pink, green, and black siliceous partings.

Monkton Quartzite - Distinctively red quartzite interbedded with lesser buff and white quartzite and relatively thick sections of dolomite like that of the Winooski; the quartzites thin to the east, and they become gray and phyllitic to the east and south.

Dunham Dolomite - Buff-weathered siliceous dolomite, pink and cream mottled or buff to gray on fresh surface; lower part is sandy and resembles the Winooski dolomite.

Cheshire Quartzite - Very massive, white to faintly pink or buff, vitreous quartzite near the top in west-central and southwestern Vermont; predominantly a less massive-appearing mottled gray, somewhat phyllitic quartzite; dolomitic sandstone and conglomerate near the base of the formation in west-central Vermont apparently grades southward into the Dalton formation.

Dalton Formation - Schistose quartzite containing pebbles of feldspar and blue quartz; impure dolomite containing pebbles of quartz and feldspar occurs locally; conglomerate common near base. Occurs in southwestern Vermont.

Moosalamoo Phyllite - Gray to black sericite-quartz phyllite; sericite-quartz-chlorite phyllite occurs locally.

Forestdale Marble - Buff- to rusty-weathered white, buff and pink and white mottled dolomite containing local interbeds of dolomitic sandstone, gray-green phyllitic quartzite, and cross-bedded sandy dolomite.

GREEN MOUNTAIN SEQUENCE

Pinnacle Formation - Schistose graywacke, gray to buff, commonly striped; quartz-albite-sericite-biotite-chlorite rock predominates; quartz-cobble and boulder conglomerate is common near base.

MOUNT HOLLY COMPLEX

Mount Holly Gneiss - Mainly fine- to medium-grained biotitic gneiss, locally muscovitic; massive and granitoid in some localities, fine-grained or schistose and compositionally layered in others; also abundant amphibolite and hornblende gneiss and minor beds of mica schist, quartzite, and calc-silicate granulite, includes numerous small bodies of pegmatite and gneissoid granitic rock.

Mount Holly Quartzite and Schist - Micaceous quartzite and quartz-mica schist locally in massive beds as much as 30 feet thick. Garnets or pseudomorphs (largely chlorite) after garnet are common. Schists are locally rusty-weathered and contain graphite.

GLOSSARY OF SELECTED GEOLOGIC TERMS

Alluvial - Pertaining to material carried or deposited by running water.

Calcareous - Pertaining to or containing calcium carbonate.

Carbonate Rocks - Rocks composed of the molecule CO_3 combined with calcium, magnesium, etc. Includes limestones and dolomites.

Delta - A predominantly alluvial deposit built by a stream entering the sea or other body of water. Usually it has the form of the Green letter delta.

Dolomite - A rock consisting predominantly of the mineral calcium magnesium carbonate (dolomite), containing carbon dioxide 47.7%, lime 30.4%, and magnesia 21.9%.

Esker - A long, narrow, winding ridge of mixed sand and gravel deposited by a stream of meltwater flowing in a tunnel or crevasse in stagnant glacial ice.

Gneiss - Originally meaning a more or less banded metamorphic rock with the mineral composition of granite. The term now designates a foliated metamorphic rock with no specific composition implied, but having layers that are mineralogically unlike and consisting of particles visible to the eye. Usually gneiss displays an alternation of granular minerals and schistose minerals with the rock tending to split along the schistose bands.

Ice Contact - Refers to sediments which have accumulated in contact with stagnant or wasting glacial ice. They assume the varied topographic forms expressed by eskers, kames, and kame terraces.

Kame - A conical hill of generally poorly stratified drift deposited in contact with glacial ice by streams flowing in or on the ice.

Kame Terrace - Stratified sands and gravels deposited by streams between a glacier and an adjacent valley wall.

Kame Moraine - An accumulation of material deposited directly from the frontal portion of the glacial ice and partially sorted by water action. The deposits may take the form of coalescent knolls, hummocks, and ridges.

Limestone - A bedded sedimentary rock consisting chiefly of calcium carbonate. The most important and widely distributed of the carbonate rocks.

Marble - A soft, white rock being the metamorphic form of limestone in which the calcium carbonate (calcite) is recrystallized and the calcite crystals are overgrown and interlocked with additional calcite. Commercially it is a trade name applied to any carbonate rock of good color and texture and hard enough to take a polish.

Metamorphic Rocks - Rocks that owe their distinctive characteristics to the transformation of preexisting rocks through intense heat or pressure or both.

Phyllite - A fine-grained, foliated metamorphic rock intermediate between the mica schists and slates into which it may grade. The foliation is made possible by the development of a large amount of potash mica, sericite, which also gives the rock a distinctive silvery appearance.

Physiographic - Pertaining to the physical divisions of the earth.

Quartzite - A compact metamorphic rock composed of quartz grains so firmly cemented that fracture takes place across the grains and the cementing material with equal ease.

Schist - A crystalline rock with secondary foliation or lamination based on parallelism of platy or needle-like grains. The name refers to the tendency to split along the foliation.

Siliceous - Containing or pertaining to silica (silicon dioxide, SiO_2).

Slate - A very fine-grained homogeneous metamorphic rock which splits smoothly along parallel cleavage planes and yields roughly similar slabs.

Till - An unsorted, unstratified, and unconsolidated heterogeneous mixture of clay, silt, sand, gravel and boulders deposited directly by glacial ice.

BIBLIOGRAPHY

- A survey of the glacial geology of Vermont being conducted by D. P. Stewart, the partial results of which are published in Vermont Geological Survey Bulletin No. 19; 1961.
- Soil Survey (Reconnaissance) of Vermont, W. J. Latimer; 1930; Bureau of Chemistry and Soils, United States Department of Agriculture.
- Soil Exploration and Mapping; 1950; Highway Research Board, Bulletin 28.
- Survey of Highway Aggregate Materials in West Virginia; December, 1959; Engineering Station, West Virginia University, Morgantown, West Virginia.
- Materials Inventory, Bangor Quadrangle, South Half; September, 1959; University of Maine.
- Glacial Geology and the Pleistocene Epoch, R. F. Flint; 1947; John Wiley and Sons, Inc.
- A Handbook of Rocks, J. F. Kemp; June, 1946; D. Van Nostrand Company, Inc.
- Rock and Rock Minerals, L. V. Pirsson; June, 1949; John Wiley and Sons, Inc.
- Glossary of Selected Geologic Terms, W. L. Stokes and D. J. Varnes; 1955; Colorado Scientific Proceedings, Vol. 16.
- Centennial Geologic Map of Vermont, C. G. Doll; 1961.
- Stratigraphy and Structure of the Castleton Area, Vermont; Phillip Fowler; 1950; Vermont Geological Survey Bulletin 2.
- The Geology of the Rutland Area, Vermont; William F. Brace; 1953; Vermont Geological Survey Bulletin 6.
- Stratigraphy and Structure of a portion of the Castleton Quadrangle, Vermont; E-An-Zen; 1964; Vermont Geological Survey Bulletin 25.
- Brandon Quadrangle, Vermont; Geological Survey, United States Department of the Interior.
- Castleton Quadrangle, Vermont; Geological Survey, United States Department of the Interior.
- Rutland Quadrangle, Vermont; Geological Survey, United States Department of the Interior.

PARTIAL SPECIFICATIONS FOR HIGHWAY CONSTRUCTION MATERIALS

Listed below are partial specifications for Highway Construction Materials as they apply to this report at date of publication. For a complete list of specifications see Standard Specifications for Highway and Bridge Construction, approved and adopted by the Vermont Department of Highways in April, 1964.

Item 105, Granular Borrow

"Article 105.02 - Materials. The granular borrow shall be obtained from approved sources and shall consist of satisfactorily graded, free-draining, hard durable stone and coarse sand practically free from loam, silt, clay, and organic matter.

"The sand portion (material passing the No. 4 screen) shall have not more than ten percent (10%) passing the No. 270 mesh sieve and shall show a color of not more than three and one-half ($3\frac{1}{2}$) as determined by the colorimetric test described in AASHTO Method of Test, Designation T-21.

"When used in connection with fine grading or in fills where piling is to be driven, the granular material shall all pass the nine-inch (9") square-opening screen."

Item 201, Sub-base of Gravel

"Article 201.02 - Materials. The gravel shall consist of material reasonably free from silt, loam, clay or organic matter. It shall be obtained from approved sources and meet the following requirements:

"Not less than forty percent (40%) stone shall be retained on No. 4 sieve.

"The percent of wear shall be not more than twenty-five (25) when tested by laboratory methods using Method T-4 or more than forty (40) when tested by AASHTO Method T-96.

"The stone portion of the gravel shall be uniformly graded from coarse to fine, and the maximum-size particles shall not exceed two-thirds (2/3) of the layer being spread.

"The sand portion, when tested by laboratory methods using Method AASHO T-27, shall meet the grading requirements set up in the following table:

Minimum Percent of Stone	Percent Passing Square Openings	Percent Passing Square Openings
	No. 100	No. 270
40	0-15	0-3
50	0-15	0-4
60	0-15	0-5
70	0-15	0-6

"The sand shall show a color of not more than three and one-half (3½) as determined by the colorimetric test described in the AASHO Method of Test, Designation T-21."

Item 202, Sub-base of Sand

"Article 202.02 - Materials. The sand shall consist of material reasonably free from silt, loam, clay, or organic matter. It shall be obtained from approved sources and meet the following requirements:

"The sand, when tested by laboratory methods using Method AASHO T-27, shall meet the grading requirements set up in the following table:

Square Openings	Percent Passing
1½"	95-100
5/8"	80-100
No. 4	70-100
No. 100	0-18
No. 270	0-5

"The sand shall show a color of not more than three and one-half (3½) as determined by the colorimetric test described in the AASHO Method of Test, Designation T-21."

Item 204, Sub-base of Crushed Rock

"Article 204.02 - Materials. The materials for sub-base, filler, and sand cushion shall be obtained from approved sources and meet the following requirements:

A - Crushed Rock. "The crushed rock shall be uniformly graded, crusher-run material and shall be free from dirt. The ledge from which this material is obtained shall be stripped and cleaned before blasting. Conical stockpiling, or any other method of stockpiling which causes segregation of aggregates, will not be permitted.

"The crushed rock, when tested by laboratory methods using Method AASHO T-27, shall meet the grading requirements set up in the following table:

Square Openings	Percent Passing
4"	95-100
1½"	25-50
No. 4	0-15

"The percent of wear shall not be more than eight (8) when tested by laboratory methods using Method AASHO T-3 or more than forty (40) when tested by AASHO Method T-96."

Item 205, Sub-base of Crushed Gravel

"Article 205.02 - Materials.

A - Crushed Gravel. "The crushed gravel shall consist of material reasonably free from silt, loam, clay, or organic matter. It shall be obtained from approved sources and produced by a crusher adjusted to deliver a product uniformly graded from coarse to fine.

"When tested by laboratory methods using Method AASHO T-27, it shall meet the grading requirements as set forth below:

		Square Openings	Percent Passing
Sub-base of Crushed Gravel	Coarse-Graded	4"	100
	Item 205-A	No. 4	25-50
	Fine-Graded	1½"	95-100
	Item 205-B	No. 4	30-60

"At least thirty percent (30%) by weight of the stone content of the crushed gravel, that is, the material retained on the No. 4 screen, shall have a minimum of one (1) fractured face as determined by actual count from the sample submitted to the laboratory.

"The percent of wear shall not be more than twenty (20) when tested by laboratory methods using Method AASHTO T-4 or more than thirty-five when tested by AASHTO Method T-96.

B - Sand. "The sand content of the crushed gravel, that is the material passing the No. 4 screen, when tested by laboratory methods using Method AASHTO T-27, shall meet the grading requirements set up in the following table:

Square Openings	Percent Passing
No. 100	0-18
No. 270	0-8

"The sand shall show a color of not more than three and one-half ($3\frac{1}{2}$) as determined by the colorimetric test described in the AASHTO Method of Test, Designation T-21."

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 1

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
1	1A	1967	1-19	0-1	Yes	59.9	46.6	28.3	11.0	7.0	1	---	Gran. Borrow (Grav.)	Owner: Allen Mills. This area is a small pit at the south and southeast edge of coalescent knolls, beyond the end of Town Highway No. 42. Test was taken on north face. The slope was too steep to get backhoe up on the knolls to check extension of material. Material is silty and has some clay, so it would pack very well on gravel roads. There were very few +4" stones. Feature is probably of ice-contact origin.
	1B	1967	19-30	0-1	Yes	70.8	54.9	31.7	18.0	9.0	1	---	Gran. Borrow (Grav.)	At about 26' the material goes to a dark fine sand.
2	1	1967	1-9	0-1	No	100	100	76.4	37.0	17.0	1	---	---	Owner: Allen Mills. Test dug on pasture north of buildings. Thought it may be kame terrace remnant. Mostly unsorted and unstratified silty sand with pebbles. The meadows look better, but the backhoe was too large and the meadow too wet to test.
3	1	1968	1.5-7	0-1.5	Yes	67.3	61.0	47.3	6.0	3.0	1½	---	Gran. Borrow (Grav.)	Owner: Peter Markowski. Area is a small pit on the south end of a small, truncated knoll which extends generally northward. Pit is north of Town Highway No. 34, and east of Town Highway No. 31. Test #1 is on northeast face.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 2

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHTO T-21	Abrasion AASHTO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	0-5	---	Yes	60.3	49.5	33.0	9.0	5.0	1	21.4%	Gravel	Log of Test: 1.5'-3', gravel; 3'-5', coarse sand; 5'-7', cobbles and sand. Test #2 was on north face of pit.
	3	1968	0.5-5.5	0-0.5	Yes	91.7	75.6	46.5	18.0	5.0	1	21.2%	Gran. Borrow (Grav.)	Log of Test: 0-5', sandy gravel; from 5'-8' was silt to clay and stones and was not sampled. Test #3 was in pit floor, 30' southwest of Test #2. The material is fine gravel down to 4.5', then sand. Water flowed in at 4'. There was a big boulder at the northeast end of hole. There may be outwash in the vicinity. Any further working of the pit would be best carried on by dragline.
	4	1968	N	O	T	S	A	M	P	L	E	D		Test #4 was at top of small knoll near edge of woods, N30°E of pit. Ledge was hit below 4' of rock fragments and silt. Not sampled. Area is probably close to depletion. There is bedrock to the north of the pit (about 150') and the average height of the pit faces is 5'-7'. This small amount of material would only be good for tiny, local jobs.
4	1	1968	1.5-12	0-1.5	Yes	78.6	53.1	28.2	6.0	2.0	1	22.9%	Gravel	Owner: John Rusin (formerly Abel Brown property). Area is a pine-wooded, rather

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 3

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	2-10	0-2	Yes	87.4	68.3	52.1	10.0	4.0	1	21.1%	Gran. Borrow (Grav.)	<p>steep knoll with a small pit at the east, and lower end. It is south of Town Highway No. 32 and west of Town Highway No. 34.</p> <p>Test #1 was on the upper, west face of pit and was a "slate" gravel with many tabular, phyllitic, soft stones. Some +6" boulders, and about 20% 3"-6" cobbles noted.</p> <p>Log of Test: 1.5'-6'; gravel; 6'-12', gravel with silt.</p> <p>Test #2 is 40' south of Test #1. Log of Test: 2'-7', pebbly sand and fine gravel; 7'-10', gravel. The top of test #2 was the same elevation as, but further south than, the bottom of Test #1.</p> <p>Test #3 is a clean sample down the face (with backhoe) at the same location as Test #1.</p> <p>Log of Test: 0-13', pebbly sands to fine gravel with silt to clay over cobbly gravel with silty clay. From 10'-13' is fine sand and silt layers; 13'-15', silty clay.</p> <p>Rusin's spring box is in pit floor. Maybe some material is available in the knoll above pit, but it was too steep for backhoe. There is small marshy</p>
	3	1968	0-13	---	Yes	77.0	62.6	55.2	38.0	22.0	1	---	---	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 4

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
													area to east of pit.	
5	1	1968	1-10	0-1	Yes	91.3	77.7	56.4	6.0	2.0	1	5.9%	Gravel	Owner: George Eugair. Area is southern portion of long, grassy knoll which trends nearly north-south. Small pit is at south end of feature. Slumping in the pit indicates probable ice-contact origin, (mapped as kame moraine by Dr. D. P. Stewart). There is much interbedded, or lensed, silts, clay, sand, and pebbles. Test #1 was taken in north-east face. Log of Test: 1'-4', gravel; 4'-5', sand; 5'-10', pebbly gravel.
	2	1968	0-12	---	Yes	100	97.6	71.7	35.9	21.0 15.1*	1	---	---	Test #2 is in pit face northeast of large maple - (in part of feature not opened when Test #1 taken). Log of Test: 0-12', interbedded lenses of fine gravel and mostly fine sand and silty sand. An additional sieve analysis follows: Passing #10 - 62.4% Passing #40 - 53.5% Passing #80 - 40.1% Passing #200 - 22.1%
	3	1968	0.5-5.5	0-0.5	Yes	59.7	41.5	26.1	10.0	4.0	1	23.6%	Gravel	Test #3 is in pit floor, 75' south of Test #2. Log of Test: 0.5'-5.5'-

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 5

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1½"	5/8"	#4	#100	#270				
	4	1968	1-9.5	0-1	Yes	100	98.7	92.3	20.3	6.0 5.5*	1	---	Gran. Borrow (Sand)	sandy gravel; 5.5'-7'(+), silt and boulders - not sampled below 5.5'. Test #4 is in top of ridge 200' north of maple tree at edge of pit. Top 3.5' is gravelly; below that is a gray sand. Overall, a few small cobbles. An additional sieve analysis follows: Passing #10 - 84.4% Passing #40 - 60.2% Passing #80 - 27.5% Passing #200 - 10.1%
6	1	1968	1.5-10	0-1.5	Yes	100	90.0	84.3	17.4	5.0 4.2*	1-	---	Sand	Owner: George Eugair. Area is the north end of a grassy, ridge which has Map Identification No. 5 at the south end. Pit has gray, phylitic, "slaty" material. Test #1 is the south face of upper level of pit. Log of Test: 1.5'-4', sand; 4'-5', silt; 5'-6', pebbles; 6'-8', sand; 8'-9', silt; 9'-10', fine sand. An additional sieve analysis follows: Passing #10 - 93.8% Passing #40 - 59.9% Passing #80 - 30.2% Passing #200 - 7.4%
	2	1968	1.5-6	0-1.5	Yes	100	94.8	81.8	15.5	5.5 4.5*	1-	---	Sand	Test #2 is south face of lower level.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 6

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks	
						1 1/2"	5/8"	#4	#100	#270					
	3	1968	0-14	---	Yes	100	98.6	92.5	31.5	8.0 7.4*	1	---	Gran. Borrow (Sand)	<p>Log of Test: 1.5'-6', interbedded sand and silt. This material may not be in place.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 83.6%</p> <p>Passing #40 - 45.9%</p> <p>Passing #80 - 24.7%</p> <p>Passing #200 - 7.9%</p> <p>Test #3 is on south face of upper level.</p> <p>Log of Test: 0-3', interbedded fine gravel and pebbly sand; 3'-14', medium sand bottoming in fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 97.2%</p> <p>Passing #40 - 79.4%</p> <p>Passing #80 - 45.3%</p> <p>Passing #200 - 13.1%</p> <p>Test #4 is in floor, 20' north of Test #3.</p> <p>Log of Test: 0-4', fine sand, 4'-6', silt; 6'(+), silt and cobbles. Sampled only to 4'.</p> <p>Test #5 is silt to 5', then ledge. (Not Sampled)</p> <p>Test #6 dug in top of ridge 125' north of the bulldozed test trench (which is the boundary of this area and the preceding one).</p> <p>Log of Test: 1'-6', sandy,</p>	
	4	1968	0-4	---	Yes	100	100	97.6	47.8	18.0 17.6*	1	---	---		
	5	1968	0-5	---	Yes	N	O	T	S	A	M	P	L	E	D
	6	1968	1-8.5	0-1	Yes	92.6	81.8	64.9	25.0	10.0	1	21.0%	Gran. Borrow (Grav.)		

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 7

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														fine gravel; 6'-8.5', sand and silty sand with pebbles; cobble sand in bottom. Ledge at 6' midway in hole. None in west end hole to 8.5'.
7	1	1968	1.5-13	0-1.5	Yes	100	94.5	75.3	14.3	4.5 3.4*	1-	---	Sand	<p>Owner: Unknown (Possibly former Francis Fernet Property). Area is pit and possible extensions between Town Highways No. 18 and No. 21 and northwest of the "Fair Trail" stable. Area is mapped as part of a kame moraine. Old pit is on lower, east side of knoll.</p> <p>Test #1 is on the west face of pit.</p> <p>Log of Test: 1.5'-4', sandy gravel with silt seams; 4'-13', beds of coarse sand, fine sand, and pebbly sand. Upper 4' was nearly horizontal. 4'-13', beds dip northward. Much slough on lower part of face.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 68.9%</p> <p>Passing #40 - 44.2%</p> <p>Passing #80 - 21.7%</p> <p>Passing #200 - 5.0%</p>
	2	1968	1-14	0-1	Yes	100	84.8	77.0	17.7	7.0 5.4*	1	---	Gran. Borrow (Sand)	<p>Test #2 was in face in northwest corner, 135' north of Test #1.</p> <p>Log of Test: 1'-14', beds of fine sand, pebbly sand, and</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 8

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	0-7	---	Yes	95.5	82.4	56.3	10.1	3.5 2.0*	1-	---	Gran. Borrow (Sand)	<p>coarse sand. There is clean, gravelly sand and somewhat dirtier pebbly sand, and very few +1½" stones. A large boulder and some slough and vegetation were present on the face.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 60.7%</p> <p>Passing #40 - 34.8%</p> <p>Passing #80 - 17.0%</p> <p>Passing #200 - 5.7%</p> <p>Test #3 in south face of lowest level of pit.</p> <p>Log of Test: 0-7', interbedded gravelly sands and fine sands.</p> <p>NOTE: Just fails being a gravel on the #100 and #270 sieves.</p> <p>This area may not be available, and if it is, may just be useful as a source of material for local town jobs.</p>
8	1	1968	1-5	0-1	No	100	100	100	99.7	---	---	---	---	<p>Owner: Adam Godrick.</p> <p>Area is large, unmowed field north of Town Highway No. 19 just west of junction of Town Highway No. 20. Field is mainly flat, but has several shallow gullies or swales.</p> <p>Test #1 is 570' north of Town Highway No. 19. From 1'-5 is silty clay. Soil analysis was A-7-6 - clay.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 9

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
														An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 100.0% Passing #100 - 99.7% Passing #200 - 99.4%
9	1	1968	1.5-5.5	0-1.5	No	100	100	99.5	80.5	---	---	---	---	Owner: Clarence Carey. Area is swaley pasture southwest of State Aid Highway No. 1 and south of Town Highway No. 16. Test #1 dug 250' from road. Silt to silt-clay from bottom. Ran for soil classification. (A-4 - silt) An additional sieve analysis follows: Passing #10 - 99.0% Passing #40 - 98.0% Passing #100 - 80.5% Passing #200 - 68.0%
10	1A	1968	1.5-6.5	0-1.5	No	100	100	100	30.0	5.0	1	---	Gran. Borrow (Sand)	Owner: Clarence Carey. Area is composed of fields northeast of State Aid Highway No. 1 and southeast of Town Highway No. 16. Test #1A dug in field 170' northeast of fence at a point 250' northwest of gate near barn. 1.5'-6.5', fine sand with silt seams. An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 93.0% Passing #80 - 48.9%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 10

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks		
						1 1/2"	5/8"	#4	#100	#270						
	1B	1968	6.5-11.5	0-1.5	No	100	100	100	85.0	59.0	1	---	---	Passing #200 - 16.1% Test #1B is below Test #1A. 6.5'-11.5', silty sand with silt seams. Bottoms in silty clay. An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 93.8% Passing #100 - 80.9% Passing #200 - 62.8%		
	2	1968	---	0-5	No	N O T S A M P L E D										Test #2 dug near fence on small knoll 500' N38°E of Tests #1A and #1B. From 0-5' is silty clay. Bottoms in silty clay. Not sampled.
11	1	1968	2-8	0-2	Yes	72.0	60.1	39.2	11.0	6.8	1	10.0%	Gran. Borrow (Grav.)	Owner: Dr. Keenan. Area is 0.25 mile east of State Aid Highway No. 1 and just north of Map Identification No. 10, Test #2. This area is a very nearly depleted pit with extent limited by bed-rock. Test #1 is on south face of pit. Log of Test: 2'-4', cobbly gravel; 4'-8', pebbly gravel; bottom of pit is damp, fine material.		
	2	1968	0.5-9.5	0-0.5	Yes	100	94.1	81.8	8.1	3.0 2.4*	1	---	Sand	Test #2 dug in floor at northeast end of pit. Pebbly, somewhat silty sand in upper 4', underlain by coarse, clean, gray sand to about 9.5'. Some cobbles in bottom. Floor seems		

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 11

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														to have limited amount of sand. An additional sieve analysis follows: Passing #10 - 59.6% Passing #40 - 25.1% Passing #80 - 12.3% Passing #200 - 4.4%
12	1	1968	2-15	0-2	Yes	100	88.7	71.3	12.5	5.4 3.0*	1½	---	Sand	Owner: Loring E. Miller. Area is 0.3 mile east of U. S. Route 7 and 0.3 mile south of Brandon Town Line. Area is a small, overgrown and littered pit at the southwest end of a small kame terrace-like feature. Feature extends to the south, but the owner did not want it tested. There is very little extension except to the south. Test #1 taken on the southeast face of pit. Log of Test: 2'-4', sand; 4'-8', pebbly sand; 8'-10', sand with some cobbles; 10'-13', sand with a few boulders; 13'-15', coarse, clean, pebbly sand. An additional sieve analysis follows: Passing #10 - 83.5% Passing #40 - 40.2% Passing #80 - 17.5% Passing #200 - 5.4%
	2	1968	4-18	0-4	Yes	100	89.1	75.5	15.8	7.0 5.2*	1	---	Gran. Borrow (Sand)	Test #2 on northeast face of pit. Log of Test: 0-4', silty

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 12

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	3	1968	0.5-8	0-0.5	Yes	81.9	66.2	51.9	14.0	3.0	1	12.0%	Gravel	<p>overburden; 4'-18', interbedded silts, sands, and pebbly sands. An additional sieve analysis follows:</p> <p>Passing #10 - 62.5%</p> <p>Passing #40 - 37.5%</p> <p>Passing #80 - 16.5%</p> <p>Passing #200 - 5.6%</p> <p>Test #3 dug in pit floor, 80' west of Test #2.</p> <p>Log of Test: 0.5'-4.5', fine gravel, coarse sand, and silt seams; 4.5'-5.5', silt seam; 5.5'-7', fine gravel; 7'-8', silt with cobbles.</p> <p>The south end of hole is coarser and stonier than the north end of the hole. The beds dip to the south.</p>
13	1	1968	1-5	0-1	Yes	100	100	64.8	19.4	8.0 5.2*	1	---	Gran. Borrow (Sand)	<p>Owner: Ed Pomainville, Sr. Area is small, old pit 200' east of U. S. Route 7 and 1.4 miles south of Brandon Town Line.</p> <p>Test #1 is the north face of pit.</p> <p>Log of Test: 1'-3.5', fine gravel; 3.5'-4.5', sand; 4.5'-5', silt.</p>
	2	1968	2-7.5	0-2	Yes	100	100	62.1	8.0	4.0 2.5*	1	---	Gran. Borrow (Sand)	<p>Test #2 is the northeast face of pit (scraped down with backhoe).</p> <p>Log of Test: 2'-5', gravelly sand; 5'-7.5', fine sand; bottoms in silty clay and stones.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 13

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	N	O	T	S	A	M	P	L	E	D		<p>An additional sieve analysis follows:</p> <p>Passing #10 - 87.4%</p> <p>Passing #40 - 47.5%</p> <p>Passing #80 - 18.0%</p> <p>Passing #200 - 5.3%</p> <p>Test #3 dug in pit floor 40' south of Test #2. Silty clay and stones; boulder at 2'. Not sampled.</p> <p>Area is very limited as a source of material.</p>
14	1	1968	1.5-8	0-1.5	Yes	74.9	57.6	43.5	19.0	7.0	1	14.1%	Gran. Borrow (Grav.)	<p>Owner: Ed Pomainville, Sr.</p> <p>Area is a small scraped area on the upper side of the pasture above Map Identification No. 13.</p> <p>Test #1 was dug 120' east of telephone line, at edge of pine woods.</p> <p>Log of Test: 1.5'-3', silt or fine sand; 3'-8', sandy gravel; bottoms in silt clay with pebbles and many weathered stones. Overall, a sandy gravel with many 3"-5" angular stones. All stones were angular to sub-angular Cheshire quartzite.</p>
15	1	1968	1-10	0-1	No	61.4	50.9	39.5	9.0	4.0	1	26.6%	Gran. Borrow (Grav.)	<p>Owner: Frank Lovejoy.</p> <p>Area is a low, long, narrow terrace which drops off to a marsh to the west. Area is 1.75 miles north of junction of Town Highways No. 9 and No. 11, on the west side of Town</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 14

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1.5-10	0-1.5	No	59.2	48.3	36.8	13.0	6.0	1	16.3%	Gran. Borrow (Grav.)	Highway No. 11. Test #1 dug 100' west of gate. Log of Test: 1'-10', poorly graded, fine sandy gravel with many cobbles. Test #2 dug 450' north of Test #1, and 50' west of Town Highway No. 11. Log of Test: 1.5'-9', gravel with lenses of coarse sand; 9'-10', sand and cobbles. The meadow is on a low terrace whose edge is gently rounded above the marsh to the west. Piles of cobbles show on field across road. Feature may be kame terrace or outwash.
	3	1968	1.5-8	0-1.5	No	64.2	50.2	38.5	12.0	5.0	1½	26.0%	Gran. Borrow (Grav.)	Test #3 dug 300' southwest of and 10' below Test #1. Log of Test: 1.5'-5', cobbly gravel; 5'-8', bouldery gravel. Water was reached at 7'.
16	1	1968	1-5.5	0-1	No	100	100	100	99.4	---	---	---	---	Owner: Peter Markowski. Area is large field north and east of junction of State Aid Highways No. 1 and No. 2. Test #1 dug in middle of field near the south end. Soil classification is A-6, (silty clay).
	2	1968	1.5-10.5	0-1.5	No	100	100	100	18.0	3.0	1	---	Sand	Test #2 dug 200' S3°E of northeast corner. Log of Test: 1.5'-6.5', silt grading into fine sand; 6.5'-

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 15

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	3A	1968	1-6.5	0-1	No	100	100	100	60.0	19.0	1	---	---	10.5', coarse sand. Test #3A dug 145' southeast of Test #2 and 20' west of railroad embankment. Log of Test: 1'-6.5', tan silt.
	3B	1968	6.5-11	0-1	No	100	100	100	24.2	7.0 6.8*	1	---	Gran. Borrow (Grav.)	Test #3B from 6.5'-11' is a fine sand. Material becomes coarser with depth. An additional sieve analysis follows: Passing #10 - 93.7% Passing #40 - 57.1% Passing #80 - 30.2% Passing #200 - 11.4%
	4	1968	1-11	0-1	No	100	100	100	55.0	8.0	1	---	Gran. Borrow (Sand)	Test #4 dug 185' south of Test #3. From 1'-11' is a fine sand. An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 98.8% Passing #80 - 72.5% Passing #200 - 16.1%
	5	1968	1.5-10.5	0-1.5	No	100	100	100	94.0	30.0	1	---	---	Test #5 dug 240' west-southwest of Test #2. From 1.5' to 10.5' is a silty fine sand. An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 100.0% Passing #80 - 98.1% Passing #200 - 50.0%
	6	1968	1.5-6.5	0-1.5	No	100	100	100	93.4	---	---	---	---	Test #6 was 400' northwest of Test #5 and 230' south of

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 16

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
														north end of field. From 1.5'-6.5' is silt to clay. (A-4 - silt) An additional sieve analysis follows: Passing #10 - 99.7% Passing #40 - 97.7% Passing #100 - 93.4% Passing #200 - 89.7%
17	1	1968	1-8	0-1	No	100	100	100	57.0	24.0	1	---	---	Owner: Frank Buzzell. Area is long, rolling pasture knoll which trends about northeast, southwest and is west of U. S. Route 7 and north of State Aid Highway No. 2. Test #1 dug 100' east of fence and 140' north of broken fence. Log of Test: 1'-5', sand and silty sand; 5'-8', silt; 8'-9'(+) , silty clay. An additional sieve analysis follows: Passing #10 - 97.2% Passing #40 - 83.6% Passing #80 - 67.9% Passing #200 - 37.9%
	2	1968	1-5.5	0-1	No	100	96.3	90.3	18.9	5.0 4.5*	1	---	Gran. Borrow (Sand)	Test #2 dug near north end of knoll, 1,425' N40°E of Test #1. There is mixed fine and coarse sand from 1'-5.5'. From 5.5'-8.5' was silty sand that was not sampled.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 17

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	3	1968	1-8.5	0-1	No	100	100	95.2	39.9	10.0 9.5*	1	---	Gran. Borrow (Sand)	<p>An additional sieve analysis follows:</p> <p>Passing #10 - 79.8%</p> <p>Passing #40 - 53.8%</p> <p>Passing #80 - 24.2%</p> <p>Passing #200 - 8.3%</p> <p>Test #3 is a composite of Test #2, and from 5.5'-8.5' is a silty sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 93.2%</p> <p>Passing #40 - 72.7%</p> <p>Passing #80 - 55.8%</p> <p>Passing #200 - 24.7%</p>
18	1	1968	1-6	0-1	Yes	89.4	78.1	58.8	13.0	5.8	1-	9.7%	Gran. Borrow (Grav.)	<p>Owner: Frank Buzzell.</p> <p>Area is pit south of State Aid Highway No. 2 and just east of Otter Creek railroad bridge south of old covered bridge. Beds are nearly horizontal and contain small lenses of pebbly gravel and fine sand and silt. The pit floor is very fine and also damp.</p> <p>Test #1 is south face. From 1'-6' is interbedded silt, fine sand, pebbly gravel, and cobbles.</p> <p>Test #2 is 80' southeast of top of southeast face of pit.</p> <p>Log of Test: 1'-4', silty sand; 4'-9', sandy clay. (A-4 silt)</p> <p>An additional sieve analysis follows:</p>
	2	1968	1-9	0-1	Yes	100	100	91.3	69.7	---	---	---	---	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 18

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	3	1968	0.5-13	0-0.5	Yes	76.9	58.1	42.6	12.0	5.0	1	14.9%	Gran. Borrow (Grav.)	<p>Passing #10 - 91.0%</p> <p>Passing #40 - 88.3%</p> <p>Passing #80 - 69.7%</p> <p>Passing #200 - 62.7%</p> <p>Test #3 was taken in the pit face in the northeast lobe of pit.</p> <p>From 0.5'-13' is interbedded sands, silts, and gravel. Bottoms in pebbly sand. Pit seems very limited in extent due to bedrock and silty clay. There may be some material in a knoll to the southeast, but permission to test was denied. Ledge was hit at 2' below the floor.</p> <p>The pit was being worked in October, and Test #3 represents about a 100' long face (ne-sw). At a point on the face northwest of Test #2, there is fine sand or silty sand, overlying sand, and gravel beds. In general, the pit is more gravelly to the north-northeast.</p>
19	1	1968	3-11	0-3	Yes	90.7	71.0	45.6	9.0	3.0	1	7.3%	Gravel	<p>Owner: Dan Chrusciel.</p> <p>Area is grassy, nearly north-trending knoll with a pit in the south edge. Access is 0.20 mile north of junction of State Aid Highway No. 1 and Town Highway No. 22. Pit is 0.25 mile east and south of State Aid Highway No. 1. Knoll is not mapped as part of Stewart's</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 19

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2A	1968	2-14	0-2	Yes	83.3	62.3	41.9	13.0	5.0	1	5.6%	Gran. Borrow (Grav.)	granular features and seems to be an isolated deposit just west of Otter Creek. The east edge of the pit is 120' west of Otter Creek. Test #1 is along northwest spur of pit. Test #2A is on east spur on north face of pit. This sample just misses passing (see percent passing #270) specification.
	2B	1968	14-24.5	0-2	Yes	73.4	62.2	51.0	24.0	12.0	1	3.8%	---	Test #2B is still in fine gravel to 19', then goes to silty sand with cobbles and a few pebbles. Goes to clean, pebbly sand at 24.5'.
	2C	1968	23.5-31	0-2	Yes	100	89.4	79.3	3.9	0.5 0.4*	1	---	Sand	Test #2C was from 23.5' to floor and was fine gravel over medium sand and pebbly or gravelly sand at the bottom of face. An additional sieve analysis follows: Passing #10 - 63.6% Passing #40 - 33.5% Passing #80 - 8.6% Passing #200 - 1.5%
	3	1968	0-10.5	---	Yes	73.7	55.9	39.4	3.0	5.0	1-	2.8%	Gravel	Test #3 dug in southwest part of pit, 105' from Test #2. Log of Test: 0-5', very fine gravel; 5'-9', gravel; 9'-10.5', cobbly gravel. Silty sand with stones at 10.5'. Looks good in floor. There would be silty or possibly clayey zones on

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 20

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	4	1968	1-7.5	0-1	Yes	76.7	46.7	17.4	14.0	5.0	1	6.3%	Gravel	faces. Test #4 is 150' north of top of pit, and at north end of ridge extension. Log of Test: 1'-7.5', gravel - a little fine gravel with some 3"-4" cobbles and a few 6" boulders. Material looks good.
20	1	1968	1.5-7	0-1.5	No	100	96.4	93.5	23.3	11.0 10.2*	1	---	---	Owner: Harry Fallon. Area is a rocky meadow west of U. S. Route 7 and just south of State Aid Highway No. 2. Test #1 dug 35' west of fence and N60°W of Fallon's silo. There is till from 1.5'-7'.
21	1	1968	1-8	0-1	No	100	100	100	67.0	39.0	1	---	---	Owner: James C. Marro. Area is a large, flat to rolling field just east of U. S. Route 7 and State Aid Highway No. 2. Test #1 dug on west side of field, 80' south of State Aid Highway No. 2. Log of Test: 1'-3.5', silt; 3.5'-8', silty-clay with cobbles.
	2	1968	1-7	0-1	No	100	100	100	89.0	57.0	1	---	---	Test #2 was dug 230' east of U. S. Route 7 and 325' N45°E of Test #1. Log of Test: 1'-3', silty sand, 3'-7', silt to clay; clay and cobbles in bottom.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 21

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	1-9	0-1	No	100	100	98.4	32.0	15.0 14.0*	1	---	---	An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 92.9% Passing #100 - 89.0% Passing #200 - 74.8% Test #3 dug 475' due east of Test #2 at edge of field. Material was silt, to silt-clay and stones. An additional sieve analysis follows: Passing #10 - 97.3% Passing #40 - 86.3% Passing #80 - 55.6% Passing #200 - 28.1% Test #4 dug 300' south of northeast corner of field. There is cobbly silt-clay to at least 4', and did not sample.
	4	1968	---	0-1	No	N O T S A M P L E D								Test #5 dug about 450' from northeast corner on north end of field. Log of Test: 1'-6', stony silt-clay; 6'-8.5', cobbles.
	5	1968	1-8.5	0-1	No	90.8	90.8	88.2	11.4	11.0 9.7*	1	---	---	Owner: James C. Marro. Area is bouldery pasture east of Map Identification No. 21. It is east of U. S. Route 7 and north of Town Highway No. 24. This boulder-strewn, brushy pasture with woods on its east side was mapped as being near
22	1	1968	1.5-9	0-1.5	No	100	100	96.0	31.7	15.0 14.4*	1	---	---	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 22

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1-6.5	0-1	No	100	100	70.9	23.3	14.0 9.9*	1	---	---	<p>Dr. D. P. Stewart's "pebble sands". However, the lake deposits must be farther south or southeast, if present at all.</p> <p>Test #1 was dug about 1,075' east of U. S. Route 7 and about 375' east of Map Identification No. 20, Test #3. There is silty sand in top 2.5' with some cobbles and pebbles and a boulder at the surface. Below 2.5' is silt-clay with stones.</p> <p>An additional sieve analysis follows:</p> <p> Passing #10 - 93.0%</p> <p> Passing #40 - 75.2%</p> <p> Passing #80 - 50.8%</p> <p> Passing #200 - 26.4%</p> <p>Test #2 dug in more or less flat brushy area 270' due east of Test #1. Terrain begins to drop to east about 100' east of test. Cobbles and boulders still on surface. Material is the same as Test #1 except more cobbly, stony, silt-clay.</p> <p>Test #3 dug in narrow, brushy, hummocky-surfaced clearing about 275' S15°W of Test #2. Stony, silt-clay material similar to Tests #1 and #2. Boulder in bottom, silt in top 3'.</p> <p>An additional sieve analysis follows:</p>
	3	1968	1-9	0-1	No	100	100	95.0	31.0	15.0 14.0*	1	---	---	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 23

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														Passing #10 - 85.1% Passing #40 - 68.3% Passing #80 - 44.8% Passing #200 - 23.3%
23	1	1968	1-6	0-1	Yes	100	82.4	67.5	4.1	2.0 1.6*	2	---	Gran. Borrow (Sand)	Owner: John Keith. Area is large, rather shallow, rubbish-littered pit which is the south and southeast extension of Map Identification No. 24 (same owner). Area is 0.1 mile south of Town Highway No. 9 and 0.11 mile east of Town Highway No. 11 Test #1 is on small face at south end of pit. Beds are nearly horizontal. Log of Test: 1'-3', gravelly sand, 3'-5' - sand; 5'-6', sand with stones. An additional sieve analysis follows: Passing #10 - 80.4% Passing #40 - 20.3% Passing #80 - 7.4% Passing #200 - 2.6%
	2	1968	1-7.5	0-1	Yes	100	95.0	79.9	3.0	1.0 0.8*	2	---	Sand	Test #2 on south face in the southeast lobe of pit. Log of Test: 1'-7.5', interbedded pebbly, coarse sand and fine gravel. An additional sieve analysis follows: Passing #10 - 65.3% Passing #40 - 18.8% Passing #80 - 6.8% Passing #200 - 2.9%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 24

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	N	O	T	S	A	M	P	L	E	D	Test #3 dug in pit floor, about 30' north of Test #2. 0-3', boulders - not sampled.	
	4	1968	0.5-6	0-0.5	Yes	69.7	58.4	44.0	13.0	5.0	2½	16.2%	Gran. Borrow (Grav.) Test #4 is west face of west lobe of pit. 6' of fairly clean gravel with few +3" stones. Then goes to boulders and poorly sorted material. Face is 14'.	
	5	1968	0.5-6	0-0.5	Yes	65.3	52.4	37.5	11.0	4.0	2	17.0%	Gravel Test #5 dug in the stripped extension, 75' west of west face of southwest lobe of pit. Log of Test: 0.5'-6', sandy gravel. Bottoms in boulders, cobbles, and silt.	
	6	1968	1.5-9.5	0-1.5	Yes	73.6	58.8	45.0	6.0	2.0	1	14.9%	Gravel Test #6 dug on extension 120' south of pit. Log of Test: 1.5'-6', sandy gravel; 6'-9.5', gravelly sand. This area may be a suitable source for granular material, especially as it is quite near to the approximate location of the project line.	
24	1A	1968	1-13	0-1	Yes	100	95.5	84.4	5.1	2.0 1.7*	1½	---	Sand Owner: John Keith. Area is small pit at north end of large, flat feature (Map Identification No. 23). Beds near top dip to the south-east and get finer with depth. Test #1A was taken in the southwest face. Log of Test: 1'-9', pebbly sand; 9'-13', sand; seems to get finer with depth.	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 25

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1½"	5/8"	#4	#100	#270				
	1B	1968	13-24	0-1	Yes	100	100	98.5	13.7	1.5	1	---	Sand	Test #1B dug in southwest face below Test #1A. Log of Test: 13'-24', interbedded coarse, medium fine sands with pebbles.
	2	1968	0.5-6	0-0.5	Yes	100	100	100	57.0	7.0	1	---	Gran. Borrow (Sand)	Test #2 dug in pit floor, 35' north of Test #1B. Log of Test: 0.5'-6', fine sand, bottoming in fine sand, cobbles and some boulders. An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 99.6% Passing #80 - 71.8% Passing #200 - 10.7%
25	1	1968	N	O	T	S	A	M	P	L	E	D		Owner: Robert L. Smith. Area is meadow just south of Town Highway No. 9 and 0.47 mile west of Town Highway No. 28. Did not sample part of field in alfalfa, as per owner's wishes. The area is a flat to rolling field with a sag in the center, and is mapped near the contact of Dr. D. P. Stewart's kame terrace and pebble sands. Test #1 dug on west side of field, 120' south of road. Unsorted silty-clay and cobbles with some boulders. Not sampled.
	2	1968	2.5-9.5	0-2.5	No	52.6	43.7	34.1	19.0	8.0	1½	26.9%	Gran. Borrow (Grav.)	Test #2 dug 260' due south of Test #1. Very stony, with many cobbles and some boulders.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 26

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	3	1968	2.5-10	0-2.5	No	74.7	65.5	55.9	16.0	5.0	1	22.6%	Gran. Borrow (Grav.)	<p>Some thin lenses of sand, but otherwise poorly sorted material. Probably some water involved in its deposition, whereas Test #1 is probably ablation till or ground moraine.</p> <p>Test #2 is "dirty"-looking with some rotten stones down to 5.5'. Somewhat cleaner and better sorted below 5.5'. Overall, a sandy, cobbly gravel.</p> <p>Test #3 dug 350' S20°E of Test #2.</p> <p>Log of Test: 2.5'-5.5', pebbly sand; 5.5'-7', sand; 7'-10', fine gravel; bottoms in fine gravel. Some large cobbles present.</p>
	4	1968	2.5-9.5	0-2.5	No	64.1	52.4	39.7	10.0	4.0	1	20.5%	Gravel	<p>Test #4 dug at edge of woods at east end of field, 385' N85°E of Test #2, and 65' west of drop-off of knoll down to large cornfield.</p> <p>Log of Test: 2.5'-9.5', sandy, cobbly gravel with angular stones; bottoms in boulders.</p>
	5	1968	2-9.5	0-2	No	43.9	37.3	28.4	23.0	9.0	1	---	Gran. Borrow (Grav.)	<p>Test #5 dug in field, 230' S75°W of Test #4.</p> <p>Log of Test: 2-4.5', cobbly gravel and boulders; 4.5'-9.5', fine gravel, coarse sand and boulders.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 27

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
26	1	1968	2.5-10	0-2.5	No	66.0	53.1	40.0	12.0	6.0	1	23.3%	Gran. Borrow (Grav.)	<p>Owner: Anson J. Rowe. Area is a wooded knoll, (tested on top and at the base) south of Town Highway No. 9, and west of State Aid Highway No. 3. The knoll trends nearly north-south and was too steep to sample on the slope. There is a 10-acre cornfield; east of the knoll which is also owned by Rowe, but he did not want it tested.</p> <p>Test #1 is 100' S15°E of stone wall at a point 35' east of Map Identification No. 26, Test #3, and in a rather scrubby clearing.</p> <p>Log of Test: 2.5'-10', fine gravel and some heavy boulders.</p> <p>Material seems to get cleaner with depth. Many pine trees, stumps and brush would have to be cleared before developing area.</p>
	2	1968	2-10.5	0-2	No	75.0	63.7	50.0	8.0	5.0	1	13.9%	Gran. Borrow (Grav.)	<p>Test #2 dug in small clearing, 175' S38°E of Test #1.</p> <p>Log of Test: 2'-4.5', cobbly gravel and pebbles; 4.5'-7', gravel; 7'-8', sand; 8'-10.5', pebbly sand.</p>
	3	1968	2.5-9	0-2.5	No	57.6	44.0	30.2	21.0	9.0	1	16.6%	Gran. Borrow (Grav.)	<p>Test #3 dug in clearing, 155' S60°E of Test #2. Material looks rather dirty.</p> <p>Log of Test: 2.5'-7', silty</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 28

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	4	1968	2-10.5	0-2	No	57.0	49.9	39.6	16.0	8.0	1	20.1%	Gran. Borrow (Grav.)	gravel over sandy gravel; 7'-9', boulders and cobbles. Test #4 dug in pine woods clearing, 230' S50°W of Test #3. Log of Test: 2'-5', sandy, cobbly gravel; 5'-10.5', sandy, cobbly, bouldery gravel.
	5	1968	2-11	0-2	No	97.6	90.3	83.0	11.6	3.0 2.5*	1	---	Sand	Test #5 dug at the base of the wooded knoll, and at the southwest corner of the ten-acre cornfield. Stoney sand with an occasional cobble. An additional sieve analysis follows: Passing #10 - 93.2% Passing #40 - 55.6% Passing #80 - 22.3% Passing #200 - 6.3%
	6	1968	2-10.5	0-2	No	100	100	100	19.0	3.0	1	---	Gran. Borrow (Sand)	Test #6 dug 20' east of Test #5. Log of Test: 2'-10.5', fine sand; bottoms in same. An additional sieve analysis follows: Passing #10 - 99.2% Passing #40 - 78.0% Passing #80 - 33.3% Passing #200 - 6.5%
	7	1968	1-5.5	0-1	No	88.1	77.4	68.4	10.0	4.0	1	15.3%	Gran. Borrow (Grav.)	Test #7 dug on the crest of a small rise, 580' N15°W of and above Test #6. The site is like a small cone, or fan, at the base of a gully between two rises in the knoll.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 29

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	8	1968	2-12	0-2	No	77.6	67.0	60.2	9.0	4.0 2.0*	1	---	Gran. Borrow (Sand)	<p>Log of Test: 1'-5.5', gravelly sand (sampled), 5.5'-8', silty sand and cobbles. Many tabular pebbles present.</p> <p>Test #8 dug in northwest corner of cornfield, 300' N20°E of Test #7 and at the base of wooded knoll.</p> <p>Log of Test: 2'-6', silty sand and stones; 6'-12', gravelly sands bottoming in pebbly sands.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 65.6%</p> <p>Passing #40 - 41.4%</p> <p>Passing #80 - 17.2%</p> <p>Passing #200 - 5.5%</p>
27	1	1968	1-10	0-1	No	100	100	98.8	60.2	31.0 30.0*	1	---	---	<p>Owner: John Crahan.</p> <p>Area is a knolly pasture south and southwest of Crahan's house, south of Town Highway No. 9 and west of Town Highway No. 28. Two ridges trend about S30°-40°W and are separated by a broad, u-shaped depression.</p> <p>Test #1 was on ridge about 180' southwest of barn. Medium to fine sand in top 3', going to silty sand. Generally, a silt to silt clay below 6'. Bottoms in brown clay. Ridge drops in elevation at about 200' southwest of Test #1 and merges with southwest to south slope of bouldery meadows,</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 30

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1-10	0-1	No	100	100	100	50.0	42.0	1	---	---	beyond fence, about 325' southwest of Test #1. An additional sieve analysis follows: Passing #10 - 97.9% Passing #40 - 88.7% Passing #80 - 74.6% Passing #200 - 49.2% Test #2 dug 300' N25°W of Test #1 and on northwest side of broad westerly ridge. Material is silty sand, to silty clay, or silt; bottoms at 10' in clay. Material is no good.
28	1	1968	2-9	0-2	No	48.4	37.3	30.5	12.0	5.0	1	17.5%	Gravel	Owner: Robert Smith. Area is long, narrow field southeast of the junction of State Aid Highway No. 3 and Town Highway No. 28. Test #1 dug at north end of field, 130' west of small, white house. Material is a cobbly, quite stony, and somewhat dusty gravel with fairly clean looking pockets in places. Quite a few +6" boulders; mainly sub-angular stones which sound hard. Log of Test: 2'-9', cobbly gravel; bottoms on boulders.
	2	1968	---	0-6	No	N O T S A M P L E D							Test #2 dug on west end of field, 110' south of tree line and 20' east of State Aid Highway No. 3. There were silt and boulders from 0-6' which were not sampled.	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 31

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks		
						1 1/2"	5/8"	#4	#100	#270						
	3	1968	---	0-5	No	N	O	T	S	A	M	P	L	E	D	Test #3 dug on south end of field, 180' S5°E of elm tree south of white house. More bouldery than Test #1. From 0-5' were large boulders and was not sampled.
29	1A	1968	1-12	0-1	Yes	88.6	77.5	60.6	3.0	1.5	1	11.2%	Gran. Borrow (Grav.)	Owner: Robert Smith. Area is a pasture knoll trending about N60°W with an old pit at the southeast end. It appears to be cobbly at top of face, and fine at the bottom. Test #1A was taken at the top of face at north end of pit. Log of Test: 1'-12', pebbly sand and fine gravel. Average height of knoll above pasture is 40'-45'.		
	1B	1968	12-20	0-1	Yes	93.6	89.5	85.8	26.5	4.0 3.4*	1-	---	Gran. Borrow (Sand)	Test #1B is below Test #1A. From 12'-20' is fine sand with one pebbly sand layer. An additional sieve analysis follows: Passing #10 - 95.5% Passing #40 - 82.8% Passing #80 - 47.8% Passing #200 - 8.9%		
	1C	1968	20-34	0-1	Yes	100	100	100	63.0	18.0	1	---	---	Test #1C was taken below Test #1B. From 20'-34' was interbedded fine sand to silt-clay layers. Bottoms in silt with pebbles. Clay and silt at the pit floor level. An additional sieve analysis follows:		

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 32

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	0.5-9	0-0.5	Yes	100	100	98.3	24.0	9.0 8.0*	1	---	Gran. Borrow (Sand)	Passing #10 - 98.4% Passing #40 - 92.1% Passing #80 - 77.8% Passing #200 - 39.7% Test #2 dug in pit floor, 20' south of Test #1C. Log of Test: 0.5'-9', interbedded coarse and fine sand and silt. Water at 8'. An additional sieve analysis follows: Passing #10 - 84.0% Passing #40 - 52.2% Passing #80 - 33.4% Passing #200 - 17.7%
30	1	1968	1.5-13	0-1.5	Yes	61.6	56.1	37.2	18.0	9.0	1-	19.0%	Gran. Borrow (Grav.)	Owner: Robert Smith. Area is pit just south of, and below, pit in Map Identification No. 31. Feature is ice-contact, kame terrace. Test #1 was taken in north face of west side of pit. West pit faces average 25'-30'; east pit faces average 15'-20'. There are many cobbles and boulders present. About 50% are 3"-6", 30% are 6"-12", and 20% are +12". This area would necessitate a crusher.
	2	1968	1.5-10	0-1.5	Yes	73.8	52.8	35.3	17.0	8.3	1	20.4%	Gran. Borrow (Grav.)	Test #2 taken on ridge on southwest face of pit. Log of Test: 3'-5', large boulders, 5'-8', cobbly gravel; 8'-10', gravel.
	3	1968	2-8.5	0-2	Yes	49.8	43.2	32.5	12.0	5.0	1	20.4%	Gravel	Test #3 dug in field north

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 33

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	4	1968	28-40	0-1.5	Yes	61.7	52.4	35.1	3.0	1.5	1	12.2%	Gravel	of pit, 130' N37°E of large pine at top of northwest corner of pit. Log of Test: 2'-3', boulders; 3'-4', cobbles; 4'-6', boulders, 6'-8.5', zone of fewer boulders than from 4'-6'. Test #4 is in north face of pit and 20' west of and below Test #1. Many +2' boulders against foot of face, and much slough on face. Material is fairly clean, pebbly sand to cobbly gravel. More cobbly from 33'-37', and a sandy fine gravel with some silt-clay from 37' to the bottom.
	5	1968	1-9	0-1	Yes	74.4	58.8	37.6	3.0	1.0	1	18.8%	Gravel	Test #5 dug in pit floor, 30' southeast of Test #4. Log of Test: 1'-9', sandy fine gravel interbedded with cobbly gravel and a few boulders. Much silt-clay binder. Same as in bottom of Test #4. Material dips to southwest.
31	1	1968	1-10	0-1	Yes	67.9	54.7	29.1	7.0	4.0	1	18.4%	Gravel	Owner: Robert Smith. Area is the northern and higher of two pits. Mapped as kame terrace. Area is 0.13 mile north of State Aid Highway No. 3 and 0.18 mile east of Town Highway No. 28. Pit faces average to 20-27' high. Test #1 was taken southeast of southeast lobe of pit. Log of Test: 1'-4', gravel;

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 34

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1-6	0-1	Yes	73.5	66.9	46.0	18.0	6.0	1	---	Gran. Borrow (Grav.)	4'-5', fine gravel; 5'-8', gravel; 8'-10', fine gravel; bottoms in sand at 10'. Estimated 10% +6" stones and 5% +12" boulders. (This would require a crusher operation.) Test #2 was taken on the north face of the north lobe of the pit. The top of this face is 15' below the top of Test #1. Log of Test: 1'-2.5', sandy gravel; 2.5'-3.5', silt; 3.5'-4.5', fine gravel; 4.5'-6', cobbly gravel.
	3	1968	10-27	0-1	Yes	53.9	35.4	18.6	10.0	3.0	1	17.7%	Gravel	Test #3 taken below Test #1. From 10'-27' a very stony gravel with little material of sand size, but much silt-clay binder, (the face stands well and does not collapse readily). A boulder zone from 15'-19' with occasional boulders and cobbles below that. Many boulders piled or scattered around the southeast lobe of pit. Most are over 18", with some to 2' or 2.5'. On east face, about 10% exceeds 6", with 3 or 4 boulders larger than 12". There is much slough along with boulders at the base of all pit faces. The bottom 2' of Test #3 was silt-clay and stones.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 35

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	4	1968	0-4.5	---	Yes	50.6	21.2	10.0	11.0	5.0	1-	11.5%	Gravel	Test #4 dug in floor at entrance to the southeast lobe. Top 4' is all ½" to 4", with silt-clay coating and no sand; at south end of hole. The contact with underlying silty-sand, and boulder layer rises to north or northeast. Probably gravel deepens from this test southward. South end of hole sampled. Silty sand and stone layers below 4.5' dip south to southwest.
	5A	1968	0.5-8	0-0.5	Yes	87.8	78.0	60.8	22.0	10.0	1	17.1%	Gran. Borrow (Grav.)	Test #5A taken on north face of north lobe of pit. Log of Test: 0.5'-3', pebbles and silt; 3'-8', fine gravel, coarse sand, and cobbles.
	5B	1968	---	0-4.5	Yes	N O T S A M P L E D								Test #5B taken in pit floor 5' south of Test #5A. Silt and stones from 0-4.5' - not sampled.
	6	1968	2-7.5	0-2	Yes	45.2	30.1	19.8	30.0	14.0	1½	27.7%	---	Test #6 dug on top of a small grassy knoll 10' south of stone wall and 120' N80°E of Test #5A. Brown silt, boulders, and cobbles in top 3'. A sandy fine gravel with occasional cobbles from 3'. Sub-angular stones, little sand-size. Large boulders at 7.5'.
32	1A	1968	1.5-10	0-1.5	Yes	75.3	57.9	36.0	11.0	5.0	1½	15.4%	Gravel	Owner: John Crahan. Area is a wooded knoll which trends north-northwest and has

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 36

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks		
						1 1/2"	5/8"	#4	#100	#270						
	1B	1968	12-21	0-1.5	Yes	53.8	42.4	32.0	5.0	2.0	1-	15.0%	Gravel	<p>a pit just north of State Aid Highway No. 3, and 0.08 mile west of the Chittenden Town Line.</p> <p>Test #1A is in the northeast face.</p> <p>Log of Test: 1.5'-10', gravel.</p> <p>Test #1B taken below Test #1A and down to floor level.</p> <p>Log of Test: 12'-21', gravel; bottoms in boulders. Beds dip west. What gravel there is looks good.</p>		
	2	1968	---	0-3	Yes	N	O	T	S	A	M	P	L	E	D	<p>Test #2 was dug in the pit floor, 30' south of Test #1B. Boulders - not sampled.</p>
	3	1968	---	0-6	Yes	N	O	T	S	A	M	P	L	E	D	<p>Test #3 was dug in pit floor, 90' west of, and 10' below Test #2.</p> <p>Log of Test: 2'-3', gravel; 3'-6', silt and boulders; not sampled.</p>
33	1	1968	---	0-6	No	N	O	T	S	A	M	P	L	E	D	<p>Owner: James Carrigan.</p> <p>Area is uncut pasture north of Carrigan's house and west of Town Highway No. 39.</p> <p>Test #1 dug in north end of field.</p> <p>Log of Test: 0-6', overburden and large boulders (1'-5' diameter boulders). Material is coarse and poorly sorted. Not sampled.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 37

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	2-6	0-2	No	42.4	31.2	21.1	20.0	9.0	1	20.2%	Gran. Borrow (Grav.)	Test #2 dug 165' S20°W of Test #1. Log of Test: 2'-3', dirty cobbly boulder gravel; 3'-8', cobbly gravel with an occasional boulder. Poorly sorted, but not as coarse as Test #1. No boulders taken. It is estimated that 20-25% of the stones are +6" and 10% are +12". Much caving in hole.
	3	1968	---	0-6	No	N O T S A M P L E D							Test #3 dug in south end of pasture 275' S25°W of Test #2. Coarse, poorly sorted, dirty, bouldery gravel. Not sampled.	
34	1	1968	2.5-10	0-2.5	No	78.3	67.9	55.4	10.0	5.0	1	22.2%	Gran. Borrow (Grav.)	Owner: Jean and Peter Brennan. Area is field on east side of Town Highway No. 39 and 1.20 miles north of the junction of Town Highways No. 39 and No. 12. Test #1 dug in northeast corner of field. Log of Test: 2.5'-4', red-brown dirty gravel; 4'-6', cobbly gravel; 6'-10', pebbly sand and fine gravel. Stone content may be marginal.
	2	1968	2-11	0-2	No	74.1	57.1	38.3	17.0	16.0	1	21.8%	---	Test #2 dug in southeast corner of field 30' north of stone wall and 100' west of stone wall on east side of field. Log of Test: 2'-4', cobbly gravel; 4'-6', fine gravel; 6'-7', cobbles; 7'-11', fine

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 38

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
														gravel. Some schisty, phyllitic rock noted. Most cobbles were 3"-6" in size.
35	1	1968	---	0-6	No	N O T S A M P L E D							Owner: James Carrigan. Area is meadow just west of a tree line and fence on the west side of Map Identification No. 33 and northwest of Carrigan's house. Test #1 dug in middle of field on the west side. Boulder till from 0-6'. Not sampled.	
36	1	1968	---	0-5	No	N O T S A M P L E D							Owner: James Carrigan. Area is large horse pasture with some boulders on surface. Area is north of Map Identification No. 37. Test #1 dug near southeast corner of field 40' north of fence and 75' west of fence near Town Highway No. 39. Log of Test: 0.5', sod, boulders, and dirt. Not sampled.	
37	1	1968	1-7	0-1	Yes	95.4	90.0	81.2	7.3	4.0 3.3*	2 1/2	---	Sand	Owner: James Carrigan. Area is pit and extension 0.06 mile west of gate and 1 mile north of junction of Town Highways No. 12 and No. 39. Test #1 dug on northwest face of small pit, just south of access road. Log of Test: 1'-3', layer of 6"-12" boulders; 3'-6',

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET No. 39

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1-11	0-1	Yes	66.6	62.1	47.3	11.0	5.0	2	13.6%	Gran. Borrow (Grav.)	coarse sand; 6'-7', gravelly sand. An additional sieve analysis follows: Passing #10 - 79.0% Passing #40 - 22.6% Passing #80 - 12.1% Passing #200 - 6.1% Test #2 taken on northeast face of southeast lobe of small pit north of access road. Log of Test: 1'-2', sand; 2'-5', a layer of boulders and cobbles; 5'-11', sand with cobbles. The cobbles were mainly 2"-5" and the boulders were 10"-18".
	3	1968	1-9	0-1	Yes	80.0	67.9	51.3	10.0	5.0	1½	20.9%	Gran. Borrow (Grav.)	Test #3 on east face of pit north of access road. Log of Test: 1'-4', layer of cobbles; 4'-6', gravel and sand; 6'-9', stony sand.
	4	1968	1-7	0-1	Yes	70.6	55.4	34.2	9.0	4.0	2½	17.3%	Gravel	Test #4 taken on north face of pit, north of access road. There was gravel from 1'-7'.
	5A	1968	1.5-5.5	0-1.5	Yes	48.2	37.9	28.9	12.0	6.0	1	---	Gran. Borrow (Grav.)	Test #5A taken on east face of pit south of access road. There is sandy cobbly gravel from 1.5'-5.5'.
	5B	1968	5.5-13	0-1.5	Yes	100	96.9	93.3	4.0	2.0 1.8*	1-	---	Sand	Test #5B was on east face of pit south of access road. There is clean, coarse sand from 5.5'-13'. An additional sieve analysis follows: Passing #10 - 71.8%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 40

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
6	1968	1-5	0-1	Yes	65.7	57.4	45.2	14.0	7.0	1	22.0%	Gran. Borrow (Grav.)	Passing #40 - 13.7% Passing #80 - 5.1% Passing #200 - 2.9% Test #6 dug in pit floor 20' west of Test #5B. Log of Test: 1'-5', cobbly gravel; ledge at 5'.	
7	1968	2-9	0-2	Yes	58.8	50.1	39.5	14.0	7.0	1 1/2	21.9%	Gran. Borrow (Grav.)	Test #7 dug 185' S80°E of Test #5. Log of Test: 2'-4', bouldery gravel; 4'-9', dirty cobbly gravel; ledge at 9'. Estimate that about 50% of the stone is +4", and would require screening and crushing. Some of the stones are very crumbly and rotten.	
8	1968	1-7.5	0-1	Yes	64.3	57.9	47.6	8.0	4.0	1	---	Gran. Borrow (Grav.)	Test #8 dug 135' S8°E of pine tree (cleared area). Log of Test: 1'-5.5', fine gravel and cobbles; 5.5'-7.5', layer of large cobbles and boulders.	
9	1968	2-17	0-2	Yes	47.2	40.2	31.2	9.0	5.0	1	---	Gran. Borrow (Grav.)	Test #9 on east spur of pit north of access road. From 2'-17', interbedded fine to cobbly gravel with some boulders.	
10	1968	2-17	0-2	Yes	46.0	34.0	22.2	8.0	4.0	1	11.6%	Gravel	Test #10 taken on north face of pit. From 2'-17' is cobbly gravel with fine gravel near the floor. Material had a silt-clay coating on it, so it would hold together and pack better.	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 41

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	11	1968	0.5-9	0-0.5	Yes	63.3	52.8	39.3	17.0	3.0	1	13.8%	Gran. Borrow (Grav.)	<p>Test #11 dug in the floor 60' S30°W of Test #10. Material is cobbly and bouldery in top 1.5' with much sand. There was 3' of sand on west end of hole, none at east end. Dip of contact with underlying gravel is westward. Gravel also dips west; with the bedding visible due to varying stone content. Looks pretty clean and hard. Few +6" stones. Few enough stones in a layer from 4'-6' to be a gravelly sand. A few +6" boulders from below 4'. (Possibly the floor to the west of Test #11 would have fine to coarse sand, like the top 3' of test hole.) There were 2 or 3 small boulders present. Material caves easily.</p> <p>(NOTE: The district was making plans to use material from this area for local projects in, or near Pittsford.)</p>
38	1	1968	1.5-15	0-1.5	Yes	100	97.6	90.1	10.8	3.0 2.7*	1	---	Sand	<p>Owner: James Carrigan.</p> <p>Area is pit 25' west of Map Identification No. 37 and 0.17 mile west of Town Highway No. 39. The material on the east face is finer than that in the area just to the east. Interbedded silts and fine gravels dip to southwest, but they are nearly horizontal. This area</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 42

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														may be part of a kame terrace. (The faces average 10'-20') Test #1 was taken on east face of pit. Log of Test: 1.5'-3.5', fine sand; 3.5'-12', interbedded fine sand and pebbly sand; 12'-13', silty sand; 13'-15', coarse sand. An additional sieve analysis follows: Passing #10 - 87.8% Passing #40 - 29.9% Passing #80 - 12.7% Passing #200 - 5.0%
	2	1968	2-12	0-2	Yes	86.6	77.9	65.6	4.6	3.0 2.0*	1½	---	Gran. Borrow (Sand)	Test #2 taken on north face of east lobe of pit. Log of Test: 2'-7', sand with cobbles; 7'-12', fine gravel. An additional sieve analysis follows: Passing #10 - 82.7% Passing #40 - 28.2% Passing #80 - 9.2% Passing #200 - 4.5%
	3	1968	2-13	0-2	Yes	83.4	81.8	76.9	6.9	4.0 3.1*	1½	---	Gran. Borrow (Sand)	Test #3 taken on north face of west lobe. Log of Test: 2'-4', cobbles and sand; 4'-9', sand; 9'-11', coarse sand; 11'-13', fine gravel. An additional sieve analysis follows: Passing #10 - 99.7% Passing #40 - 43.7%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 43

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHTO T-21	Abrasion AASHTO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
						4	1968	1-7	0-1	Yes				
5A	1968	10.5-18.5	0-1.5	Yes	83.3	72.2	56.3	9.0	2.0	1	---	Gran. Borrow (Grav.)	Test #5A is on pit face 20' southwest of Test #1 and extends to 3.5' below floor level. From 1'-10.5' is probably represented by Test #1. There is fine gravel and pebbly sand from 10.5'-18.5'. Bottoms in fine sand.	
5B	1968	18.5-25	---	Yes	100	100	98.9	50.0	10.0 9.8*	1	---	Gran. Borrow (Sand)	Test #5B is below Test #5A. From 18.5'-25' is sandy silt over silty sand. An additional sieve analysis follows: Passing #10 - 92.4% Passing #40 - 88.9% Passing #80 - 58.5% Passing #200 - 15.2%	
6	1968	0.5-7	0-0.5	Yes	94.6	93.3	81.2	6.5	3.0 2.4*	1	---	Gran. Borrow (Sand)	Test #6 dug in pit floor, 40' S85°W of Test #5B. Log of Test: 1.5'-2', silt bed; 2'-3', pebbly sand; 3'-3.5', silt beds; 3.5'-7', fine gravel; 7'-10', silt beds. Some pebbles are +1½" and one was over 3". An additional sieve analysis follows; Passing #10 - 80.9% Passing #40 - 23.0% Passing #80 - 13.2% Passing #200 - 5.4%	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 44

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	7A	1968	3-11	0-2	Yes	56.5	43.9	32.9	9.0	4.0	1	16.2%	Gravel	Test #7A taken on pit face 10' east of Test #3. From 3'-11' is interbedded gravel and fine sand. Bottoms in fine sand.
	7B	1968	11-20	0-2	Yes	100	88.0	75.7	5.0	1.5 1.1*	1-	---	Sand	Test #7B taken below Test #7A. From 11'-20' is interbedded fine sand and gravel. Bottoms in coarse sand. An additional sieve analysis follows: Passing #10 - 64.9% Passing #40 - 19.4% Passing #80 - 6.8% Passing #200 - 2.7%
	8	1968	0.5-10	0-0.5	Yes	78.9	69.7	56.0	10.0	3.0	1	13.8%	Gravel	Test #8 dug in pit floor 40' south of Test #7B. Material dips to west and southwest. Log of Test: 0.5'-3.5', stony sand; 3.5'-10', gravel. Bottoms on coarse sand.
39	1A	1968	2.5-6	0-2.5	Yes	76.3	62.1	48.0	8.0	4.0	1	21.9%	Gravel	Owner: James Carrigan. Area is a small pit hidden in woods, west of, and below Map Identification No. 38. A cobble pile attests to its former use, but pit now brush-grown. Test #1A dug in northeast face. About 2.5' of sod, roots, and silt overlies a sandy gravel to 6'; fine sand below that. A pocket of fairly good looking material from 3'-5'.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 45

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	1B	1968	6-12.5	0-2.5	Yes	100	100	100	56.0	17.0	1	---	---	Test #1B taken in fine sand and silty sand from 6'-10.5' on face and continued for 2' in the floor. An additional sieve analysis follows: Passing #10 - 98.4% Passing #40 - 95.7% Passing #80 - 67.9% Passing #200 - 24.3%
	2	1968	1-10	0-1	Yes	100	100	90.6	18.0	3.0 2.7*	1	---	Sand	Test #2 dug beside cobble pile in junction of woods roads. Log of Test: 1'-3.5', dark gray-brown pebbly sand; 3.5'-4.5', silt seam with cobbles over fine sand; 4.5'-10', fine to coarse sand; brown to gray at 9'. Bottoms in fine gray sand. The extension of material is to the northeast and southeast. The terrain drops off to a flat, wooded area on the west. The south extension may be more likely on the higher ground. An additional sieve analysis follows: Passing #10 - 87.0% Passing #40 - 48.8% Passing #80 - 24.8% Passing #200 - 9.1%
40	1	1968	2.5-11	0-2.5	No	83.7	72.5	59.8	6.0	2.0	1	20.8%	Gravel	Owner: James Carrigan. Area is pasture, 170' S30°W of, and below, Map Identification No. 39 at the fork in the

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 46

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	3-10.5	0-3	No	64.8	60.2	52.4	5.0	1.3	1	---	Gran. Borrow (Grav.)	<p>woods road. The beds were nearly horizontal. Some tabular stones were noted.</p> <p>Test #1 dug near north end of field 70' from woods. From 2.5'-11' is interbedded coarse sand and gravel.</p> <p>Test #2 dug in field 100' S5°W of Test #1.</p> <p>Log of Test: 2.5'-4', boulders and cobbles; 4'-10.5', lenses of gravel and fine sand. Beds dip to the east, so it would probably be best to open a pit from the west side.</p>
41	1	1968	1.5-10	0-1.5	No	100	92.9	88.3	7.9	1.0 0.9*	1	---	Sand	<p>Owner: Jerome Tennien.</p> <p>Area is a large, nearly flat field with drop-off to the east. Field is south of State Aid Highway No. 5 and east of Town Highway No. 41. Area is east of cornfield.</p> <p>Test #1 dug in field 200' southwest of State Aid Highway No. 5 and 110' west of fence and 190' east of the tree line near the house. From 1.5'-10' is pebbly sand with an occasional ice-rafted cobble. Probably a beach, or near-shore lake deposit. Good sharp sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 87.9%</p> <p>Passing #40 - 51.1%</p> <p>Passing #80 - 16.1%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 47

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	N	O	T	S	A	M	P	L	E	D		<p>Passing #200 - 3.1%</p> <p>Test #2 dug 20' east of cornfield, 290' S47°W of, and 7' below Test #1.</p> <p>Log of Test: 0-2.5', over-burden; 2.5'-5', clay; not sampled.</p>
	3	1968	2-11.5	0-2	No	100	100	99.0	42.6	5.0	1	---	Gran. Borrow (Sand)	<p>Test #3 dug on small ridge 230' S20°E of, and 6' above, Test #2, and 430' south of Test #1.</p> <p>Log of Test: 2'-4', gravelly sand; 4'-11.5', interbedded medium to fine sand.</p>
42	1	1968	1-14	0-1	Yes	63.4	48.5	30.0	17.0	8.0	1	14.6%	Gran. Borrow (Grav.)	<p>Owner: James Hurley.</p> <p>Area is a pit on the southwest side of a probable esker. The access is 0.35 mile north of Town Highway No. 12 and 0.65 mile east of Town Highway No. 39. There are many large cobbles and boulders piled up and it seems likely that a crusher operation would be warranted. The knoll extends mainly southeast and south from pit area.</p> <p>Test #1 is the east face of the north lobe. From 1'-14' is gravel with coarse sand and cobbles. Many crusher-size boulders from 12"-24" in size. Bottoms in same.</p>
	2	1968	1-15	0-1	Yes	78.6	61.0	49.2	8.0	3.0	1 1/2	14.9%	Gravel	<p>Test #2 in north face of east lobe of pit. From 1'-</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 48

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	23-38	0-1	Yes	63.2	51.7	34.8	15.0	7.0	1	15.6%	Gran. Borrow (Grav.)	15' is mixed cobbly gravel and coarse sand. Not many boulders. Test #3 taken on bottom of face and below Test #1. Interval from 14'-23' had excess slough and was not sampled. There was sandy cobbly gravel over boulders from 23'-38'.
	4	1968	1-10	0-1	Yes	83.0	57.9	42.0	4.0	2.0	1	12.6%	Gravel	Test #4 dug in pit floor 20' west of Test #3. There was a pocket of rubble to 4', then goes into a clean gravel to 10' with an occasional boulder.
	5	1968	0.5-12	0-0.5	Yes	93.7	87.4	79.0	2.3	1.0 0.7*	1	---	Gran. Borrow (Sand)	Test #5 taken in south face of upper pit to south of main pit. Material is mainly a coarse sand with lenses, or pockets of cobbles and gravel. Overall, the material is a gravelly sand.
	6	1968	0.5-9.5	0-0.5	Yes	78.8	73.7	64.2	3.0	1.0	1	8.0%	Gran. Borrow (Grav.)	Test #6 taken in upper pit floor 20' north of Test #5. There are thin sand and gravel layers from 0.5'-9.5'. A few +3" stones; none over 6". The beds below 3' dip 30°-40° to the southwest. Above 3' the beds are more nearly flat. The bedding is rather vague. Stone content is probably marginal. Looks very clean. Many boulders and cobbles around upper (south) floor also. The top (to the east) is inaccessible to backhoe. To the south

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 49

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
43	1	1968	18-25	0-1	Yes	94.3	86.3	83.5	20.9	5.0 4.2*	1	---	Gran. Borrow (Sand)	<p>and east of south part of the pit is stripped.</p> <p>Owner: James Hurley.</p> <p>Area is a pit just north of Town Highway No. 12 and near the south end of the esker which contains the pit of Map Identification No. 42 at the north end. There may be enough large cobbles and boulders to require a crusher.</p> <p>Test #1 is on the lower north face and is south and east of Test #2 and under the power line. The 6' interval between 12' and 18' was not sampled due to excess slough.</p> <p>Log of Test: 18'-23', sand with a few stones; 23'-25', sand with stones and 3"-6" cobbles (not gravel).</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 97.0%</p> <p>Passing #40 - 74.8%</p> <p>Passing #80 - 39.9%</p> <p>Passing #200 - 7.9%</p>
	2	1968	1-12	0-1	Yes	72.1	66.8	60.3	7.2	5.0 3.0*	1½	---	Gran. Borrow (Sand)	<p>Test #2 taken on upper north face of pit, west and north of Test #1.</p> <p>Log of Test: 1'-5', sand with stones and cobbles; 5'-8', sand; 8'-12', gravelly sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 88.9%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 50

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3A	1968	1-4.5	0-1	Yes	79.2	60.2	41.6	10.0	5.0	1	17.0%	Gran. Borrow (Grav.)	Passing #40 - 36.7% Passing #80 - 12.6% Passing #200 - 5.5% Test #3A dug in floor 10' southwest of Test #1. From 1'-4.5' is cobbly, fine gravel which dips westward.
	3B	1968	4.5-8	0-1	Yes	100	93.4	86.2	16.3	5.0 4.3*	1	---	Sand	Test #3B was taken below Test #3A. From 4.5'-8' is cobbly sand with water at 5.5'. Test #3A and #3B were below the power line. An additional sieve analysis follows: Passing #10 - 80.6% Passing #40 - 50.4% Passing #80 - 22.5% Passing #200 - 7.0% Some of the fines may have been washed out by the water at 5.5'.
44	1	1968	3-10.5	0-3	No	47.6	37.7	31.0	18.0	8.0	1½	14.9%	Gran. Borrow (Grav.)	Owner: Mrs. Cyril Webster. Area is a 23-acre wooded lot on the west side of Town Highway No. 45 and 0.16 mile south of Town Highway No. 40. The access road has a chain across it. Test #1 is 130' S15°W of junction of two woods roads. From 3'-10.5' is a bouldery, dirty gravel which is coarse and poorly sorted. About 20-25% are +6" stones. Would need to screen and crush the material in order to use it.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 51

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	2-7.5	0-2	No	48.3	40.2	32.0	20.0	9.0	1	---	Gran. Borrow (Grav.)	Test #2 dug in a small woods road 265' N42°W of Test #1. Material is dirty, unsorted, and coarser than in Test #1. Does not look very good. There is bouldery dirty gravel from 2'-7.5'; about 40-50% are +6" boulders.
	3	1968	3-10	0-3	No	52.5	44.5	35.4	9.0	3.0	1½	18.8%	Gravel	Test #3 dug 200' N45°W of Test #2 in woods road. Log of Test: 3'-5', cobbly gravel; 5'-10', sandy cobbly gravel; bottoms in same. Looks better than Tests #1 and #2 to the east.
45	1	1968	1-5	0-1	No	100	100	100	11.0	2.0	1	---	Sand	Owner: Royce Mandigo. Area is pit and pasture knolls 0.5 mile east of U. S. Route 7 and 0.5 mile north of Town Highway No. 45. (Turn east at "Baker's Meat Market and Produce" sign.) The pit is at the southwest end of grassy knoll which extends east-northeast up into pine woods. Test #1 taken on the north face. There is sand from 1'-5'. There are boulders and some cobbles and sand at 5'. An additional sieve analysis follows: <ul style="list-style-type: none"> Passing #10 - 98.9% Passing #40 - 65.3% Passing #80 - 23.1% Passing #200 - 4.2%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 52

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over- burden (Ft)	Exist- ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
						S	A	M	P	L	E	D		
	2	1968	N	O	T									Test #2 dug in pit floor 15' southwest of Test #1. There was overburden from 0- 2' and boulders at 2'. Not sampled.
	3	1968	1-9.5	0-1	No	100	94.5	89.9	58.4	30.0 27.0*	1	---	---	Test #3 dug near top of knoll at south edge of pasture 205' N60°E of and 33' above Test #1. Log of Test: 1'-3', sand; 3'-9.5', silty clay and rocks; bottoms in fine sand. An additional sieve analysis follows: Passing #10 - 87.3% Passing #40 - 76.3% Passing #80 - 63.4% Passing #200 - 36.9%
	4	1968	1-10	0-1	No	100	98.7	97.9	10.8	2.0	1	---	Sand	Test #4 dug in uncut por- tion of pasture 240' N45°E of, and 9' above Test #3. Seems to be sand of ice-contact depo- sition. Sides of hole kept caving. Log of Test: 1'-8', inter- bedding fine to coarse sand and some pebbly sand; 8'-9', stoney sand; 9'-10', sand. Bottoms in sand. An additional sieve analysis follows: Passing #10 - 94.7% Passing #40 - 70.3% Passing #80 - 15.5% Passing #200 - 3.3%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 53

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	5	1968	1.5-9	0-1.5	No	69.0	62.2	54.0	4.0	2.0	1	15.3%	Gravel	<p>Test #5 dug in a scrub-grown clearing on knoll at east end of rolling pasture and 230' N12°E of, and 10' above Test #4.</p> <p>Log of Test: 1.5'-6', cobbly gravel; 6'-9', fine gravel. Ice-contact deposition; looks like pretty good material. Probable extension to north and northeast.</p>
46	1	1968	1-10.5	0-1	No	100	100	100	65.0	19.0	1	---	---	<p>Owner: Royce Mandigo.</p> <p>Area is a rolling pasture 0.3 mile east of U. S. Route 7 and 0.52 mile north of Town Highway No. 52, and west of Map Identification No. 45. There is a large, broad knoll with a creek diverted around the north end; may be a kame moraine.</p> <p>Test #1 dug on crest of knoll at south edge of field road. Knoll used as tillage. Might be good for Granular Borrow, Item 105.</p> <p>Log of Test: 1'-4', silt or silty sand; 4'-10.5', fine sand with small pebbles. Some angular +6" stones in bottom. Did not test further.</p>
47	1	1968	0.5-17	0-0.5	Yes	65.2	53.9	40.0	6.0	2.0	1 1/2	---	Gran. Borrow (Grav.)	<p>Owner: Richard Rowe.</p> <p>Area is pit and vicinity on a knoll trending nearly east-west. Area is southwest of U. S. Route 7 and 0.18 mile</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 54

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1-11	0-1	Yes	93.5	89.5	85.7	3.4	1.0 0.9*	1½	---	Gran. Borrow (Sand)	north of Town Highway No. 45 and behind the Bel-Aire Motel. Test #1 is on the southeast face of the pit. Log of Test: 0.5'-2', coarse pebbly sand; 2'-8', cobbly gravel; 8'-15', fine gravel; 15'-17', sand with an occasional cobble, interbedded with fine gravel. Test #2 taken near southwest end of pit. Log of Test: 1'-11', interbedded sand and fine sand; fine sand beds at 7'; bottoms in coarse sand with an occasional cobble. An additional sieve analysis follows: Passing #10 - 91.6% Passing #40 - 24.2% Passing #80 - 7.0% Passing #200 - 2.2%
	3A	1968	0.5-7	0-0.5	Yes	100	100	98.5	5.9	1.0 0.9*	1-	---	Sand	Test #3A was in the center of the south face of pit. There was interbedded silt and fine and coarse sand from 0.5'-7'. An additional sieve analysis follows: Passing #10 - 92.1% Passing #40 - 42.1% Passing #80 - 7.8% Passing #200 - 2.4%
	3B	1968	7-13	0-0.5	Yes	74.3	62.2	52.6	2.0	0.5	1	9.8%	Gravel	Test #3B was taken below Test #3A. There is fine gravel

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 55

Map Ident. No.	Field Test No.	Year Field Test	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	4	1968	0.5-10	0-0.5	Yes	63.8	50.4	40.3	2.0	1.0	1	6.7%	Gravel	from 7'-13'; bottoms in same. Test #4 dug in floor, 45' east of Test #3. Log of Test: 0.5'-4', coarse sand; 4'-5', cobbly gravel; 5'-10', fine gravel.
	5	1968	2-11	0-2	No	100	96.7	91.7	10.0	1.0 0.9*	1	---	Sand	Test #5 dug 160' west of the west end of pit at edge of field. Log of Test: 2'-3.5', fine sand; 3.5'-6.5', coarse sand; 6.5'-9', pebbly sand; 9'-10', gravel; 10'-11', fine sand. An additional sieve analysis follows: Passing #10 - 89.0% Passing #40 - 39.8% Passing #80 - 13.0% Passing #200 - 3.0%
	6	1968	1-8	0-1	No	100	100	100	80.0	48.0	1	---	---	Test #6 dug at edge of field 210' southeast of Test #5. There was silt-clay from 1'-8'. Bottoms in same.
	7	1968	2.5-10	0-2.5	Yes	100	78.9	71.8	5.7	2.0 1.4*	1	---	Sand	Test #7 dug 12' south of pit near center. Log of Test: 2.5'-6.5', pebbly sand, 6.5'-10', fine gravel. An additional sieve analysis follows: Passing #10 - 67.7% Passing #40 - 25.1% Passing #80 - 6.5% Passing #200 - 2.8%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 56

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	8	1968	1-10.5	0-1	Yes	100	100	98.1	6.0	1.0 0.9*	1	---	Sand	Test #8 dug on south crest of knoll 40' south of east face of pit. There is interbedded coarse sand and pebbles. An additional sieve analysis follows: Passing #10 - 94.1% Passing #40 - 35.9% Passing #80 - 9.4% Passing #200 - 2.3%
48	1A	1968	0.5-12	0-0.5	Yes	100	81.1	74.4	24.5	6.0 4.4*	1	---	Gran. Borrow (Sand)	Owner: Warren H. Taylor. Area is a wooded knoll with a small pit at north end, and just east of U. S. Route 7 and 0.15 mile north of Town Highway No. 45. Test #1A was under the high point of 39' face. Log of Test: 0.5'-5', sand and gravel; 5'-12', fine sand. An additional sieve analysis follows: Passing #10 - 100.0% Passing #40 - 82.5% Passing #80 - 34.9% Passing #200 - 7.9% From 12'-32' was not exposed due to excessive sloughing.
	1B	1968	32-39	0-0.5	Yes	100	100	100	25.0	3.0	1	---	Gran. Borrow (Sand)	Test #1B was taken below Test #1A. There was fine sand from 32'-39'; bottoms in sand.
	2	1968	1.5-11	0-1.5	Yes	100	100	100	11.0	1.5	1	---	Sand	Test #2 dug in floor 50' from U. S. Route 7 and 30' S50°W from Test #1B. There is very uniform fine sand from 1.5'-11'; bottoms in same.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 57

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														NOTE: Pit was being used as of 10/8/68 - so shape of feature and quantity of material will be different than when tested.
49	1	1968	2.5-10	0-2.5	No	63.4	45.3	34.4	4.0	1.0	1	14.2%	Gravel	Owner: Royce Freeman. Area is pine woods northwest of Freeman's "Old Mill" south of U. S. Route 7 and just east of Map Identification No. 47. Test #1 dug 200' S40°E of east face of pit in Map Identification No. 60 and 200' S10°W of tenant's house. Log of Test: 2'-6', fine gravel; 6'-10', gravel with cobbles and boulders. Many +6" boulders below 6' level.
	2	1968	1.5-10	0-1.5	No	44.9	37.6	29.6	10.0	4.0	2	12.4%	Gravel	Test #2 dug at the east edge of woods 210' southeast of Test #1 and 120' northwest of "Old Mill". Material is a stratified, sandy, fairly clean gravel with many +6" boulders (+ 10% over 6") and would be good for crushing. It is a sandy gravel overall. Was unable to test further due to dense tree cover.
50	1	1968	1-11	0-1	No	100	100	100	31.0	2.0	1	---	Gran. Borrow (Sand)	Owner: Harold Fish. Area is a long narrow pasture with swales and knolls located just east of U. S. Route 7 and just north of Town Highway No. 45.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 58

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1½"	5/8"	#4	#100	#270				
	2	1968	1-8	0-1	No	100	100	100	18.0	3.0	1	---	Sand	<p>Test #1 is on top of knoll about 500' from U. S. Route 7 and 175' northeast of a point which is 100' southeast of small pond. From 1'-11' is sand with an occasional cobble.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p> <p>Passing #40 - 99.3%</p> <p>Passing #80 - 63.4%</p> <p>Passing #200 - 4.2%</p> <p>Test #2 dug on knoll top 175' southwest of Test #1 and 100' southeast of small pond. Log of Test: 1'-8', sand with an occasional boulder; 8'-10', silty fine sand. Bottoms in same.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p> <p>Passing #40 - 80.9%</p> <p>Passing #80 - 33.6%</p> <p>Passing #200 - 6.6%</p>
	3	1968	2.5-10.5	0-2.5	No	100	100	97.0	32.0	3.0 2.9*	1	---	Gran. Borrow (Sand)	<p>Test #3 dug on small grassy knoll at northwest edge of property, 20' southeast of Tuffy Toys sign. From 2.5'-10.5' is sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 99.1%</p> <p>Passing #40 - 93.7%</p> <p>Passing #80 - 54.1%</p> <p>Passing #200 - 9.0%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 59

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
51	1	1968	1-6.5	0-1	No	100	100	70.2	24.0	9.0	1	---	Gran. Borrow	Owner: Ray Giddings. Area is a hilly pasture east of alfalfa meadow, east of U. S. Route 7, and south of Town Highway No. 45. This is a piney hillside below and west of Orin Thomas' property. Test #1 dug on hillside 70' east of alfalfa field. Top 3.5' is overburden and silty sand and goes to an ill-sorted silty gravel. Bottoms in same with large cobbles or boulders. The hillside is cobble-strewn.
	2	1968	1-8.5	0-1	No	100	100	62.4	25.6	9.0 5.6*	1	---	Gran. Borrow (Sand)	Test #2 taken in pasture 300' north of Test #1 and 200' south of Town Highway No. 45. Surface is cobbly. Log of Test: 1'-3', silty cobbly gravel; 3'-7.5', very fine sand with stones; 7.5'-8.5', pebbly sand over cobbles and boulders; 8.5', rock and silt-clay - does not look good for anything except borrow or fill. An additional sieve analysis follows: Passing #10 - 94.6% Passing #40 - 78.4% Passing #80 - 54.9% Passing #200 - 19.1%
52	1	1968	0.5-2.5	0-0.5	No	58.9	49.5	38.5	16.0	5.0	2½	18.4%	Gran. Borrow (Grav.)	Owner: Orin Thomas. Area is a large pasture on a kame terrace east of Ray

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 60

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1-10	0-1	No	55.6	41.7	30.8	10.0	4.0	1½	18.1%	Gravel	<p>Giddings' property (Map Identification Numbers 51 and 53. Area is south of Town Highway No. 45, but because of lack of permission to cross Shutteck's land, access must be by way of Town Highway No. 10 and over Ed Wheeler's land. The gate to access is 0.35 mile east of U. S. Route 7 on Town Highway No. 10. The area is 0.3 mile to the northwest corner of the pasture from Town Highway No. 10.</p> <p>Test #1 taken 7' east of fence 175' north of oak tree in the southwest corner of field. About one-third of the cobbles are 2"-4" and about one-third are +6" boulders.</p> <p>East of the field is an up-slope which is boulder and bedrock (not suitable for granular material).</p> <p>Test #2 dug in field 30' northeast of maple near fence at southwest end of field. 5%-10% of the stones present are +6".</p> <p>Log of Test: 1'-5', sandy coarse gravel; 5'-9', gravel; 9'-10', fine gravel. Material looks very good below 5'.</p> <p>Test #3 dug 70' northeast of dead tree, 45' from west edge of pasture and 275' from</p>
	3	1968	1.5-10	0-1.5	No	58.8	44.9	34.6	8.0	3.0	1	18.8%	Gravel	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 61

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	4	1968	1.5-10	0-1.5	No	56.9	42.5	32.4	12.0	5.0	1½	23.1%	Gravel	<p>north end. Very cobbly on surface. Below 1.5' of sod, silt, and stones is a 1-foot layer of coarse sand going to a fine gravel. A few +6" boulders are present. Material looks cleaner and sharper than in Test #2. Material from Test #2 could be crushed to better advantage than Test #3. Entire pasture could be scraper-loaded. Test #3 is stratified about horizontal and caves easily. Looks very good.</p> <p>Test #4 is 410' N40°E of Test #2 and 180' S45°E of Test #3 near middle of pasture in a low sag. Beds seem to dip slightly north. The material is not as good as in Test #3. Test #4 is about 6' below Test #3.</p> <p>Log of Test: 1.5'-8', sandy gravel; 8'-10', slightly finer gravel. Some +6" boulders.</p>
	5	1968	1.5-10	0-1.5	No	54.6	40.4	29.7	13.0	5.0	1½	24.7%	Gravel	<p>Test #5 dug 275' N60°E of Test #4, 100' south of birch just beyond stone wall, 125' west of slope on east side of field, and 6' above Test #4. Material dips to west and north and gets coarser and sandier with depth.</p> <p>Log of Test: 1.5'-7', sandy gravel; 7'-10', gravelly sand.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 62

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	6	1968	1-10.5	0-1	No	66.3	50.0	33.1	12.0	4.0	1½	18.9%	Gravel	<p>Test #6 dug east across sag from Test #1, 130' from woods at south end of pasture, and 300' S20°W of Test #5. The surface has some small cobbles. Material is quite stony with more -3" stones than other tests. Few +6" stones in top 5'; some below that. Fewer stones and more sand. From 1.5'-4' is a pebbly gravel becoming quite cobbly below 7' and bottoms in large cobbles or boulders. Test #6 is 1'-2' below Test #1.</p> <p>NOTE: Access for testing was across Ed Wheeler's rocky pasture north of Town Highway No. 10. However, if Orin Thomas & Sons develop this area, they would probably use their right-of-way through Shutteck's land, just south of Town Highway No. 45.</p>
53	1	1968	1.5-8	0-1.5	Yes	66.9	66.9	39.7	25.0	10.0	1	---	Gran. Borrow (Sand)	<p>Owner: Ray Giddings. (North-east Culvert Sales on U. S. Route 7.</p> <p>Area is a pair of partly wooded knolls dropping down to the southwest and west to a pit and a pasture terrace. The area is 0.17 mile east of U. S. Route 7 and 0.09 mile south of Town Highway No. 45. Test #1 dug on north face of</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 63

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														small pit at south base of knolls. Log of Test: 1.5'-6', silty pebbly sand with some cobbles; 6'-8', cobbly sand. An additional sieve analysis follows: Passing #10 - 85.8% Passing #40 - 52.7% Passing #80 - 32.1% Passing #200 - 13.1% Test #2 dug in north face down to floor level. Log of Test: 1.5'-5', silty gravel; 5'-20', fine sand with some gravel lenses. Test #3 dug in pit floor 15' south of Test #2. Log of Test: 1'-3', fine sand; silt to clay at 3'. Test #4A taken in pasture at rise on south side of pasture 240' S60°E of fence gate. There is gravel from 1'-6.5'. Test #4B taken below Test #4A. There is fine sand which is rather stony and goes from 6.5'-10.5'. An additional sieve analysis follows: Passing #10 - 84.6% Passing #40 - 57.8% Passing #80 - 37.2% Passing #200 - 8.0%
2	1968	1.5-20	0-1.5	Yes	100	100	69.1	34.6	10.0	6.9*	1	---	Gran. Borrow (Sand)	
3	1968	---	0-3	Yes	N	O	T	S	A	M	P	L	E	D
4A	1968	1.5-6.5	0-1.5	No	64.0	48.2	36.1	15.0	4.0		1½	20.2%	Gravel	
4B	1968	6.5-10.5	0-1.5	No	92.8	87.6	82.9	27.4	6.0	5.0*	1	---	Gran. Borrow (Sand)	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 64

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	5	1968	1.5-10.5	0-1.5	No	100	100	80.7	46.8	15.0 12.1*	1 1/2	---	---	<p>Test #5 dug 180' N12°W of Test #4A-4B.</p> <p>Log of Test: 1.5'-5.5', sandy gravel; 5.5'-10.5', fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 70.0%</p> <p>Passing #40 - 63.1%</p> <p>Passing #80 - 52.3%</p> <p>Passing #200 - 21.5%</p>
54	1	1968	1-10	0-1	Yes	84.8	77.4	71.0	17.8	6.0 4.3*	2	---	Gran. Borrow (Sand)	<p>Owner: Lorenzo Phelps.</p> <p>Area is overgrown pit with stumps and piles of screened cobbles. The major extension appears to be to the southeast into a wooded knoll. Area is 0.08 mile east of U. S. Route 7 and 0.23 mile north of Town Highway No. 10.</p> <p>Test #1 is on the south face of pit, near the west end.</p> <p>Log of Test: 1'-3', gravel; 3'-8', sand; 8'-10', stony sand. Bottoms on cobbles and boulders.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 90.9%</p> <p>Passing #40 - 64.9%</p> <p>Passing #80 - 28.3%</p> <p>Passing #200 - 8.3%</p>
	2	1968	0-6	0-1	Yes	100	94.9	87.8	30.7	4.0 3.5*	1 1/2	---	Gran. Borrow (Sand)	<p>Test #2 dug 50' northeast of Test #1 in pit floor.</p> <p>Log of Test: 0-5.5', fine sand; 5.5', water and gravel.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 65

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	1.5-17	0-1.5	Yes	65.9	54.1	41.7	13.0	3.0	1½	20.1%	Gravel	An additional sieve analysis follows: Passing #10 - 94.1% Passing #40 - 88.8% Passing #80 - 56.6% Passing #200 - 8.6% Test #3 is on the southeast face of pit 100' southeast of Test #2. Log of Test: 1.5'-12.5', gravel; 12.5'-17', stony sand.
	4	1968	1.5-9.5	0-1.5	No	76.3	59.4	46.5	18.0	5.0	1½	16.4%	Gran. Borrow (Grav.)	Test #4 dug in field near pump house 190' S55°W of Test #3. Log of Test: 1.5'-5', gravel; 5'-9.5', sand with pebbles.
	5	1968	1-9	0-1	No	68.7	47.8	32.9	17.0	7.0	1	21.3%	Gran. Borrow (Grav.)	Test #5 dug in field 180' S70°W of Test #4. Log of Test: 1'-8', sandy gravel; 8'-9', clay and water. Bottoms in clay.
55	1	1968	1-8	0-1	Yes	77.5	64.9	52.6	7.0	3.0	1½	16.4%	Gravel	Owner: Lorenzo Phelps. Area is a large privately owned dump which is the remains of a poorly managed pit. Most of the pit floor has been often stirred and moved around by a bulldozer. Area is just north of Town Highway No. 10, 0.23 mile east of U. S. Route 7. There is a small right-of-way just south of the pit. North and northwest parts of pit should be exploited first.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 66

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	2-10	0-2	Yes	78.6	70.8	60.8	6.0	1.0	1	10.0%	Gran. Borrow (Grav.)	<p>Test #1 at upper west face of pit.</p> <p>Log of Test: 1'-4', gravel; 4'-5', pebbly sand; 5'-8', gravel looks like good material, but the amount and extent of material is probably not much.</p> <p>Test #2 was on west face of pit. There is interbedded gravel and sand from 2'-10'. Has only 39.2% stones, otherwise it would pass for Sub-base of Gravel, Item 201.</p>
	3	1968	0.5-9.5	0-0.5	Yes	100	100	99.3	22.9	2.0 1.9*	1	---	Gran. Borrow (Sand)	<p>Test #3 dug on upper pit floor 10' east of Test #2.</p> <p>Log of Test: 0.5'-5.5', pebbly coarse sand; 5.5'-9.5', fine sand. Beds seem to dip slightly to the north.</p>
	4	1968	0-10	---	Yes	100	100	100	13.0	1.5	1	---	Sand	<p>Test #4 dug in pit floor on north edge, northeast across pit from other tests. Wooded hillside to north and northeast is a possible extension. A thin layer of fine gravel has been stripped and is underlain by fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p> <p>Passing #40 - 87.8%</p> <p>Passing #80 - 26.3%</p> <p>Passing #200 - 3.8%</p>
56	1A	1968	0.5-3.5	0-0.5	Yes	75.2	60.5	45.0	7.0	3.0	1	13.5%	Gravel	<p>Owner: Lorenzo Phelps.</p> <p>Area is pit on north side</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 67

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	1B	1968	3.5-10	0-0.5	Yes	100	100	98.7	11.0	1.0 0.9*	1	---	Sand	<p>of Town Highway No. 10 and 0.1 mile east of U. S. Route 7 just south of the small right-of-way of Map Identification No. 55. Area is unworked pit, much of floor is littered with rubbish and logs.</p> <p>Test #1A dug 200' N10°E of Town Highway No. 10. Ice-contact material seems to thicken to the east and dip to the south and east. There is fine gravel from 0.5'-3.5'.</p> <p>Test #1B was below Test #1A. Log of Test: 3.5'-9', sand; 9'-10', fine sand. Bottoms in fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 98.6%</p> <p>Passing #40 - 45.3%</p> <p>Passing #80 - 17.5%</p> <p>Passing #200 - 2.9%</p>
	2	1968	2.5-11.5	0-2.5	Yes	100	100	100	38.0	3.0	1	---	Gran. Borrow (Sand)	<p>Test #2 dug in floor 100' south of Test #1A-1B). Here the material seems to thicken to the west. There is fine sand from 2.5'-11.5'. Bottoms in fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p> <p>Passing #40 - 99.2%</p> <p>Passing #80 - 63.6%</p> <p>Passing #200 - 10.2%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 68

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
57	1	1968	1-5	0-1	No	100	100	56.6	50.0	25.0	1	---	---	Owner: Ed Wheeler. Area is the east extension of Map Identification No. 58. Pasture and knolls seem close to bedrock. This area is south of Town Highway No. 10. Test #1 dug on top of knoll 175' south of Test #2. There is stony till to 5' and bottoms in till. An additional sieve analysis follows: Passing #10 - 80.7% Passing #40 - 61.8% Passing #80 - 50.7% Passing #200 - 30.1% Test #2 dug in field 25' east of gully in the northeast corner of the pit in Map Identification No. 58. Ledge at 2.5' - not sampled.
	2	1968	0-2.5	---	N O T S A M P L E D									
58	1	1968	1.5-9	0-1.5	Yes	55.2	50.0	45.0	9.0	2.8	1	14.4%	Gravel	Owner: Ed Wheeler. Area is large shallow pit just east of U. S. Route 7 and 1 mile north of Rutland Town Line. Pit seems to be near depletion. There is no extension to the east or north. The land to the south is supposedly going to be developed for houses. Beds dip gently to the west and appear to be lake sediments over nearly horizontal outwash. Cobble piles have many 3"-6" cobbles.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 69

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	1.5-11	0-1.5	Yes	88.6	79.1	60.9	30.0	10.8	2	17.5%	---	<p>Test #1 on northeast face of pit on west edge of grassy knoll.</p> <p>Log of Test: 1'-3', silt; 3'-5', reddish-brown sand; 5'-9', cobbly gravel. Bottoms in sand and silt.</p> <p>Test #2 on pit face at south side of east end of pit.</p> <p>Log of Test: 1.5'-4.5', cobbly gravel; 4.5'-11', reddish-brown sand.</p>
	3	1968	1-8	0-1	Yes	86.5	70.2	62.4	14.0	4.1	1	15.7%	Gran. Borrow (Grav.)	<p>Test #3 on north face of small southwest lobe of pit.</p> <p>Log of Test: 1'-3', sandy gravel; 3'-7', fine sand; 7'-8', sand and fine gravel.</p>
	4	1968	1-10	0-1	Yes	96.0	86.4	76.4	3.1	1.0 0.8*	1½	---	Sand	<p>Test #4 is on the southwest face 100' east of U. S. Route 7 and south of pit road.</p> <p>Log of Test: 1'-4.5', pebbly sand; 4.5'-6.5', fine gravel; 6.5'-10', pebbly sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 75.8%</p> <p>Passing #40 - 25.2%</p> <p>Passing #80 - 5.4%</p> <p>Passing #200 - 2.5%</p>
	5	1968	1-10.5	0-1	Yes	100	100	97.4	42.9	10.0 9.7*	1½	---	Gran. Borrow (Sand)	<p>Test #5 dug in floor 25' north of Test #4. There is silty fine sand from 1'-10.5'.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 96.6%</p> <p>Passing #40 - 85.9%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 70

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	6	1968	1-11	0-1	Yes	91.5	80.5	64.5	27.0	20.0 12.9*	1	---	---	Passing #80 - 58.6% Passing #200 - 18.0% Test #6 is on central face at east end of pit. Log of Test: 1'-3', gravel; 3'-7', silty fine sand; 7'-11', silty fine sand with pebbles.
	7	1968	1-5	0-1	Yes	100	97.3	86.9	7.8	3.0 2.6*	1	---	Sand	Test #7 on pit floor 50' west of Test #6. Log of Test: 1'-2.5', gravel; 2.5'-5', medium sand; 5'-8', fine silty sand. Hole was sampled only to 5'. Beds dip slightly to east and south.
	8	1968	2-9	0-2	Yes	64.1	49.9	38.0	10.0	5.0	1½	17.0%	Gravel	Test #8 on central face at north end of pit. Log of Test: 2'-6', cobbly gravel; 6'-9', fine gravel with sand.
	9	1968	1-9	0-1	Yes	100	97.0	95.0	2.9	1.0	1	---	Sand	Test #9 dug 120' S15°W of Test #8. Log of Test: 1'-2', coarse sand; 2'-5', medium sand; 5'-9', interbedded medium to coarse sand. Beds dip south and have layers of small pebbles in them. An additional sieve analysis follows: Passing #10 - 91.1% Passing #40 - 32.3% Passing #80 - 5.0% Passing #200 - 1.4% Pit is worked from time to time. Seems rather limited.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 71

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
59	1	1968	1-9	0-1	No	100	93.8	85.1	2.1	1.0 0.9*	1	---	Sand	<p>Owner: Ed Wheeler.</p> <p>Area is a large, somewhat swaley pasture which is the second one west of Wheeler's house 0.11 mile west of U. S. Route 7 and 0.88 mile north of Rutland Town Line.</p> <p>Test #1 dug 50' northwest of bar-way.</p> <p>Log of Test: 1'-3' reddish-brown pebbly sand; 3'-5', brown pebbly sand; beds dip slightly west; 5'-9', gray sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 77.1%</p> <p>Passing #40 - 25.1%</p> <p>Passing #80 - 6.2%</p> <p>Passing #200 - 2.2%</p>
	2	1968	1-9	0-1	No	100	88.8	81.5	2.4	1.0 0.8*	1½	---	Sand	<p>Test #2 dug 260' north of Test #1.</p> <p>Log of Test: 1'-3.5', fine gravel; 3.5'-6', coarse sand and pebbles; 6'-9', medium gray sand.</p>
	3	1968	2-10	0-2	No	100	93.4	84.1	6.7	3.0 2.5*	1	---	Sand	<p>Test #3 dug just where field drops off to the north and 220' north of Test #2.</p> <p>Log of Test: 2'-4', fine gravel; 4'-10', gray sand with some gravel lenses.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 84.6%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 72

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	4	1968	1.5-9	0-1.5	No	94.2	89.7	81.8	68.7	53.0 43.4*	1	---	---	Passing #40 - 30.2% Passing #80 - 10.7% Passing #200 - 5.8% Test #4 dug at bottom of sag at north end of field 165' N40°W of Test #3 and 35' south of fence. Log of Test: 1.5'-3', fine gravel; 3'-9', silty fine sand. Beds appear to dip south and west. An additional sieve analysis follows: Passing #10 - 95.6% Passing #40 - 89.0% Passing #80 - 86.0% Passing #200 - 66.4%
	5	1968	1.5-9	0-1.5	No	100	85.1	76.7	2.3	1.0 0.8*	1	---	Sand	Test #5 dug 175' S42°W of Test #4. Beds dip somewhat southeast. Log of Test: 1.5'-3', fine gravel; 3'-4.5', silty fine gravel; 4.5'-6', fine gravel; 6'-7.5', gray sand; 7.5'-9', silty fine sand. Looks pretty good down to 7.5', then goes to silt. An additional sieve analysis follows: Passing #10 - 89.4% Passing #40 - 12.6% Passing #80 - 3.8% Passing #200 - 2.1%
	6	1968	1-9.5	0-1	No	100	88.6	77.2	2.3	1.3 1.0*	1	---	Sand	Test #6 is 240' south of Test #5.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 73

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	7	1968	1-10	0-1	No	100	95.6	87.1	2.6	1.0 0.9*	1½	5.9%	Sand	<p>Log of Test: 1'-5', fine gravel; 5'-9.5', coarse sand. An additional sieve analysis follows: Passing #10 - 59.9% Passing #40 - 12.6% Passing #80 - 3.4% Passing #200 - 1.7%</p> <p>Test #7 dug in southwest corner of pasture, 55' southeast of birch tree and 220' south of Test #6.</p>
	8	1968	1-10	0-1	No	100	95.8	91.6	2.7	1.0 0.9*	1	---	Sand	<p>Log of Test: 1'-3', fine gravel; 3'-10', gray sand interbedded with pebbly sand. An additional sieve analysis follows: Passing #10 - 70.8% Passing #40 - 16.5% Passing #80 - 4.2% Passing #200 - 2.2%</p> <p>Test #8 dug in bottom of southernmost sag 110' northeast of and 12' lower than Test #7.</p>
	9	1968	1-10	0-1	No	92.6	90.9	78.7	3.1	1.5 1.2*	1	---	Gran. Borrow (Sand)	<p>Log of Test: 1'-3', brown fine sand; 3'-4.5', fine gravel; 4.5'-8' gray coarse sand and interbedded fine gravel; 8'-10', gray sand. Test #9 dug 275' north of Test #8 and 150' east of woods and 148' west of fence. Log of Test: 1'-5', fine yellow sand; 5'-6', fine gravel; 6'-10', gray sand.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 74

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
														An additional sieve analysis follows: Passing #10 - 60.0% Passing #40 - 21.5% Passing #80 - 5.2% Passing #200 - 2.2%
60	1	1968	1-5	0-1	No	100	84.1	74.6	13.4	8.0 6.0*	1	---	Gran. Borrow (Sand)	Owner: Joseph Gagnon. Area is small knoll east of rocky pasture near telephone lines. Area is 0.46 mile east of State Aid Highway No. 6 across from sawmill driveway. Hillside knolls east of, and below, bouldery slope; and ridge top. Drops steeply off to the east. Test #1 dug just east of telephone lines. Very fine gravel or gravelly sand with one boulder and only a few 3"-6" cobbles. Bottoms in stony Silt to clay. Material probably has too much stone for sand and not enough for gravel. An additional sieve analysis follows: Passing #10 - 70.6% Passing #40 - 28.9% Passing #80 - 19.0% Passing #200 - 10.9% Test #2 dug 80' south of and downhill from pole #135/78 and 27' below Test #1. Silt clay hit below sod and continues to at least 6.5'.
	2	1968												

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 75

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
61	1	1968	2.5-9	0-2.5	Yes	100	100	100	38.0	8.0	1	---	Gran. Borrow (Sand)	<p>Owner: Catherine S. Hitzel. Area is very small pit and vicinity in pine woods east of fields and 0.35 mile east of State Aid Highway No. 6. Access is 0.7 mile north of Town Highway No. 15. Pit is 10' x 30' and is on the south side of woods road. A low ridge trends N30°E.</p> <p>Test #1 is on southeast face of pit. From 2.5'-9' is interbedded fine sand, silt, and sand. Bottoms in silt to clay and stones.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 99.3%</p> <p>Passing #40 - 79.4%</p> <p>Passing #80 - 45.6%</p> <p>Passing #200 - 13.7%</p>
	2	1968	---	0-4	No	N O T S A M P L E D								<p>Test #2 dug in wooded ridge 0.14 mile west of Test #1 and 50' north of woods road. From 0-4' was stony till and was not sampled.</p>
62	1	1968	1-11	0-1	No	100	100	96.0	27.8	8.0 7.7*	1	---	Gran. Borrow (Sand)	<p>Owner: Perley Mills. Area is a broad, flat-topped ridge above woods west of State Aid Highway No. 6 0.45 mile north of Town Highway No. 15.</p> <p>Test #1 was dug at east edge of clearing at the base, on the south side of the ridge and about 250' west of State Aid Highway No. 6. From 1-11'</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 76

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	1.5-11	0-1.5	No	100	100	100	15.0	2.0	1	---	Sand	is silt grading into fine sand with a few pebbles. Water at 11'. An additional sieve analysis follows: Passing #10 - 95.7% Passing #40 - 70.3% Passing #80 - 36.3% Passing #200 - 13.2% Test #2 dug at east end of pasture on top of ridge 170' N10°E of and 45' above Test #1. From 1.5'-11' are interbedded silty and fine sands with an occasional pebbly layer.
	3	1968	2-10.5	0-2	No	100	93.9	89.2	10.7	4.0 3.6*	1	---	Sand	Test #3 dug at top, west end of ridge 285' N82°W of Test #2. Log of Test: 2'-3', brown sand; 3'-4', gray coarse sand with some pebbles; 4'-6.5', gray sand; 6.5'-7.5', gray sand; 7.5'-8.5', silty sand; 8.5'-10.5', pebbly sand. An additional sieve analysis follows: Passing #10 - 85.2% Passing #40 - 41.9% Passing #80 - 15.3% Passing #200 - 6.0%
63	1	1968	1-8	0-1	No	100	82.5	75.1	39.1	21.0 15.8*	1	---	---	Owner: Charles A. Fox. Area is a large cornfield just north of and above Map Identification No. 64. Test #1 is 155' N40°W of

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 77

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	1-9	0-1	No	97.6	79.2	72.3	16.6	6.0 4.3*	1	---	Sand	<p>gate. Does not look very good. There is silty sand with stones from 1'-8'.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 90.2%</p> <p>Passing #40 - 71.0%</p> <p>Passing #80 - 54.5%</p> <p>Passing #200 - 28.6%</p> <p>Test #2 dug near top of knoll in northeast corner of field.</p> <p>Log of Test: 1'-5', coarse sand with silt and stones; 5'-9', silty sand and gravel. Big boulders in bottom.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 93.4%</p> <p>Passing #40 - 64.3%</p> <p>Passing #80 - 32.0%</p> <p>Passing #200 - 11.1%</p> <p>Test #3 dug in low part of cornfield 750' S70°W of Test #1 and 240' N70°E of fence.</p> <p>Log of Test: 1'-3', pebbly fine sand; 3'-4.5', coarse sand; 4.5'-11.5', silty fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 94.2%</p> <p>Passing #40 - 71.0%</p> <p>Passing #80 - 46.1%</p> <p>Passing #200 - 22.1%</p>
	3	1968	1-11.5	0-1	No	100	97.6	92.2	34.1	12.0 11.1*	1	---	---	

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 78

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1½"	5/8"	#4	#100	#270				
	4	1968	1-10	0-1	No	100	100	97.8	20.5	6.0 5.9*	1	---	Gran. Borrow (Sand)	<p>Test #4 dug 300' N70°E of Test #3. From 1'-10' is interbedded sand, fine sand, silt, and pebbly sand layers 2"-6" thick. Bottoms in fine sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 94.4%</p> <p>Passing #40 - 58.8%</p> <p>Passing #80 - 30.2%</p> <p>Passing #200 - 13.7%</p>
64	1	1968	1-10	0-1	No	100	89.6	85.3	3.4	1.3 1.1*	1	---	Sand	<p>Owner: Charles A Fox.</p> <p>Area is a pasture east of barn, 0.22 miles east of State Aid Highway No. 6, and north of Town Highway No. 15. Pasture with gullies reaching back southeast toward a bulldery slope and hill. It is south of cornfield which is probably a terrace.</p> <p>Test #1 dug on northwest corner of pasture about 0.2 mile east of barn. There is pebbly coarse sand with few +1½" pebbles. Pasture is mapped as part of kame moraine to the south. Cornfield to north may be lake sediments. Sand looks pretty good.</p> <p>Log of Test: 1'-4', pebbly sand; 4'-6.5', very fine gravel; 6.5'-10', coarse sand.</p> <p>An additional sieve analysis follows:</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 79

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	2	1968	1-9.5	0-1	No	100	98.6	96.3	14.4	5.0 4.8*	1	---	Sand	Passing #10 - 79.8% Passing #40 - 27.2% Passing #80 - 5.5% Passing #200 - 2.1% Test #2 dug 310' east across shallow gully from Test #1 and a little below it. Material is medium sand below 1' of overburden and 2' of fine to coarse sand beds which dip steeply north-northeast. Underlying medium sand seems to have a gentle north-northeast dip. Seems fine and stands better than Test #1. It is pretty uniform medium sand which looks pretty good and only a very few pebbles are present. An additional sieve analysis follows: Passing #10 - 97.7% Passing #40 - 69.4% Passing #80 - 20.5% Passing #200 - 7.4%
	3	1968	1.5-11.5	0-1.5	No	100	100	99.1	74.3	9.0 8.9*	1	---	Gran. Borrow (Sand)	Test #3 dug 175' S85°E of and 8'-10' above Test #2, and perhaps 50' north of and 3'-4' below the change in slope. Material is a fine brown sand with 2 or 3 pebbles.
65	1	1968	1-8	0-1	No	58.9	52.7	38.9	13.0	3.0	1	20.9%	Gravel	Owner: Charles A. Fox. Area is a large rolling field west of State Aid Highway No. 6 and north of Town Highway No. 15.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 80

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														Test #1 was dug on the crest of the ridge 230' S65°W of gate in rock wall east of field. From 1'-8' is boulder gravel with some fine sand. Bottoms in same. Material probably should be screened and crushed.
66	1	1968	1-10	0-1	Yes	100	100	98.2	9.8	1.0	1	---	Sand	<p>Owner: Joseph Gagnon.</p> <p>Area is a rolling pasture just south of Town Highway No. 15 and just west of State Aid Highway No. 6 with a small pit at the south end of the pasture. Pit is S70°W of junction of the two roads.</p> <p>Test #1 is on the northwest face.</p> <p>Log of Test: 1'-2.5', fine sand; 2.5'-7', sand; 7'-10', pebbly sand with some interbedded silt seams.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 98.7%</p> <p>Passing #40 - 69.8%</p> <p>Passing #80 - 13.3%</p> <p>Passing #200 - 2.3%</p>
	2	1968	1-18	0-1	Yes	93.8	84.8	79.2	9.5	2.0 1.0*	1	---	Gran. Borrow (Sand)	<p>Test #2 is on the face 20' east of Test #1.</p> <p>Log of Test: 1'-3.5', gravel; 3.5'-9', sand; 9'-10.5', very fine or silty sand; 10.5'-14', fine gravel; 14'-18', very fine sand; good clean material. Has too many +1½" stones.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 81

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	3	1968	0.5-6.5	0-0.5	Yes	100	100	100	16.0	4.0	1	---	Sand	An additional sieve analysis follows: Passing #10 - 89.0% Passing #40 - 69.0% Passing #80 - 25.3% Passing #200 - 6.4% Test #3 dug in pit floor 20' south of Test #2. From 0.5'-6.5' is fine sand over silt. An additional sieve analysis follows: Passing #10 - 100.0 Passing #40 - 83.3% Passing #80 - 28.5% Passing #200 - 10.0%
	4	1968	1-10	0-1	Yes	76.9	67.1	54.8	23.0	7.0	1	22.6%	Gran. Borrow (Grav.)	Test #4 dug in field of north extension of pit 240' N50°E of Test #2. Log of Test: 1'-3', pebbly coarse sand; 3'-7.5', cobbly gravel; 7.5'-9', silty sand seam; 9'-10', fine gravel. Bottoms in sub-angular stones. Bedding and slumping indicates ice-contact deposition of material.
67	1A	1968	1-6	0-1	No	100	100	98.0	51.9	24.0 23.5*	1	---	---	Owner: Joseph Gagnon. Area is rolling pasture south of Map Identification No. 66. Area is behind sawmill south of Town Highway No. 15 and west of State Aid Highway No. 6. Area includes a knoll east of plantation of small pines.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 82

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	1B	1968	6-9	0-1	No	100	100	95.0	5.7	1.0	1	---	Sand	<p>Test #1A dug on top of knoll 175' S25°E of Map Identification No. 66, Test #3. From 1'-6' is fine and silty sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 96.0%</p> <p>Passing #40 - 80.2%</p> <p>Passing #80 - 61.4%</p> <p>Passing #200 - 36.6%</p> <p>Test #1B is coarse sand from 6'-9' and bottoms in angular stones.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 84.8%</p> <p>Passing #40 - 21.5%</p> <p>Passing #80 - 8.2%</p> <p>Passing #200 - 2.4%</p>
	2	1968	1-10	0-1	No	100	100	100	75.0	12.0	1	---	---	<p>Test #2 dug at top of knoll near drop-off 185' S85°W of Test #1A-#1B. From 1'-10' is fine sand that bottoms in fine to coarse sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p> <p>Passing #40 - 92.7%</p> <p>Passing #80 - 81.3%</p> <p>Passing #200 - 27.6%</p>
68	1	1968	1.5-11	0-1.5	No	100	100	99.1	11.9	1.0	1-	---	Sand	<p>Owner: Mrs. Grace Stevens.</p> <p>Area is large field with pine woods in northeast corner 0.30 mile north of Town Highway No. 15 and 0.7 mile west</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 83

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over- burden (Ft)	Exist- ing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1½"	5/8"	#4	#100	#270				
	2	1968	1.5-11.5	0-1.5	No	100	93.0	92.0	48.8	13.0 12.0*	1	---	---	<p>of State Aid Highway No. 6. Area access is 0.4 mile east of Vermont Route No. 3. The slightly rolling field is highest at the east end.</p> <p>Test #1 is 220' north of and 20' west of Map Identification No. 69, Test 8, and from 1.5'-11' is medium tan and gray sand which dips slightly.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 98.7%</p> <p>Passing #40 - 63.2%</p> <p>Passing #80 - 17.1%</p> <p>Passing #200 - 2.6%</p> <p>Test #2 dug at north end of field and 165' N11°E of elm tree in field. From 1.5'-11.5' is interbedded fine and coarse sand. Bottoms in gravelly or pebbly sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 98.8%</p> <p>Passing #40 - 88.5%</p> <p>Passing #80 - 67.4%</p> <p>Passing #200 - 27.4%</p>
	3	1968	2-11	0-2	No	100	100	100	2.0	1.0	1-	---	Sand	<p>Test #3 dug at west end of field 1,215' S66°W of Test #2. From 2'-11' is interbedded tan and gray sand - no pebbles.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 84.

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
69	1	1968	1.5-11	0-1.5	No	100	100	100	20.0	4.0	1	---	Gran. Borrow (Sand)	Owner: Clarence Duchane. Area contains woods and fields 0.15 mile north of Town Highway No. 15 and 0.43 mile east of Vermont Route No. 3. Area is a rolling + 24 acre field rising slightly in the east, and more steeply to a crest in the southeast corner next to woods. The woods to the north drop off to a creek. Test #1 was dug at edge of field road about 0.17 mile north of Town Highway No. 15. Log of Test: 1.5'-5', cobbly sand; 5'-10', fine sand; 10'-11', medium or coarse sand. Dips to east and looks good. An additional sieve analysis follows: Passing #10 - 97.0% Passing #40 - 62.2% Passing #80 - 26.3% Passing #200 - 7.8%
	2	1968	1-10.5	0-1	No	100	100	99.1	22.8	4.0	1-	---	Gran. Borrow (Sand)	Test #2 dug in northwest corner of field 80' south of woods and 280' N35°W of Test #1. Gray-tan sand; medium or coarse with a few pebbles near the top. Looks good. Possible current bedding is indicated by diverse dips. Pretty uniform with occasional very fine sand

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 85

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	1.5-9.5	0-1.5	No	100	96.0	92.9	13.0	3.0 2.8*	1	---	Sand	<p>lenses. Some tiny pebbles in a few layers.</p> <p>Test #3 dug at edge of woods 60' from drop-off to north toward creek and 290' east of Test #2. Reddish-brown pebbly sand in top 3' with 2 or 3 small cobbles. Goes to tan gray pebbly sand. Most stones under 2". Hole kept caving, so stopped at 9.5'. Same material in bottom. Some "maroon-tinged" coarse sand. (Monkton derived?)</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 94.9%</p> <p>Passing #40 - 46.6%</p> <p>Passing #80 - 16.6%</p> <p>Passing #200 - 5.9%</p>
	4	1968	1.5-11	0-1.5	No	100	100	98.5	63.0	17.0 16.7*	1	---	---	<p>Test #4 dug 540' east of Test #3 100' north of field just north of small race track. 1.5' of reddish-brown overburden. About 3.5' of pebbly cobly sand over very fine sand. Goes to medium or coarse sand at 7' or 8' and to pebbly sand (½"-1") at 11'. Composite of hole is fine sand with pebbles.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 98.9%</p> <p>Passing #40 - 92.1%</p> <p>Passing #80 - 78.4%</p> <p>Passing #200 - 39.8%</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 86

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over- burden (Ft)	Exist- ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
						S	A	M	P	L				
	5	1968	N	O	T	S	A	M	P	L	E	D	Test #5 dug on knoll in southwest corner. Ledge hit at 3', overlain by rocks and loam. Bedrock control exists above the general level of the field.	
	6	1968	1.5-6.5	0-1.5	No	100	100	89.1	36.5	14.0 2.5*	1	---	---	Test #6 dug 160' N75°W of Test #5 just off the foot of the rise. Fine sand under 1.5' overburden. Goes to silty clay at 4' and to ledge or large boulder at 6.5'. Sampled for Granular Borrow, Item 105 and documentation. An additional sieve analysis follows: Passing #10 - 97.0% Passing #40 - 78.5% Passing #80 - 53.7% Passing #200 - 30.6%
	7	1968	1-11	0-1	No	100	100	100	25.0	4.0	1	---	Gran. Borrow (Sand)	Test #7 dug 250' due west of, and about 6' below, Test #6. A fine or medium, buff-red sand, getting gray-tan with depth. Good sand, fairly sharp, uniform. (Test #6 may be on low ridge of wave-worked deposits.) An additional sieve analysis follows: Passing #10 - 98.8% Passing #40 - 67.3% Passing #80 - 32.0% Passing #200 - 8.8%
	8	1968	1.5-10	0-1.5	No	100	100	97.4	33.1	8.0 7.8*	1	---	Gran. Borrow (Sand)	Test #8 dug on west side of field south of Test #1 and ± 11' below its elevation. This

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 87

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														test is probably typical of deposits in Stevens property (Map Identification No. 68). Beds of fine and medium sand with occasional layers of small pebbles. Dip is gentle, to west- An additional sieve analysis follows: Passing #10 - 98.3% Passing #40 - 76.8% Passing #80 - 47.9% Passing #200 - 16.5%
70	1	1968	1.5-8.5	0-1.5	Yes	100	100	100	22.0	11.0	1½	---	---	Owner: Vermont Marble Co. Area is low shallow pit with fairly fine material. Owner not interested in selling. Beds are nearly horizontal. Area is northwest of Map Identification No. 71 and 0.05 mile east of Vermont Route No. 3 and 0.3 mile south of Town Highway No. 15. Test #1 dug on north face 40' northwest of small garage or shed. Log of Test: 1.5'-3', fine sand; 3'-4', silt; 4'-5', red-brown sand; 5'-6' silt; 6'-8.5', sand. An additional sieve analysis follows: Passing #10 - 99.6% Passing #40 - 53.1% Passing #80 - 19.6% Passing #200 - 10.6%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 88

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1968	2-10	0-2	Yes	100	100	99.3	12.9	3.0	I	---	Sand	Test #2 dug 20' east of elm tree. Log of Test: 2'-5', interbedded fine sand and red-brown sand; 5'-6' silt; 6'-10', sand. An additional sieve analysis follows: Passing #10 - 99.0% Passing #40 - 65.2% Passing #80 - 23.4% Passing #200 - 5.6%
	3	1968	1-12	0-1	Yes	100	100	100	13.0	3.0	1½	---	Sand	Test #3 dug on south face of pit, south of elm tree. Log of Test: 1'-3', fine sand; 3'-4', sand; 4'-5', red-brown sand; 5'-10', sand; 10'-12', silt. An additional sieve analysis follows: Passing #10 - 99.2% Passing #40 - 64.0% Passing #80 - 20.2% Passing #200 - 5.6%
	4	1968	1-7	0-1	Yes	100	100	100	5.0	1.0	1	---	Sand	Test #4 dug on south face, south of salt shed and 30' west of Test #3. There is sand from 1'-7'. An additional sieve analysis follows: Passing #10 - 99.1% Passing #40 - 57.0% Passing #80 - 11.4% Passing #200 - 3.5%
	5	1968	0-5	---	Yes	100	100	100	70.0	50.0	1	---	---	Test #5 dug in floor on east side of pit, 50' south of elm.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 89

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	6	1968	0.5-9	0-0.5	Yes	100	100	100	13.0	2.0	1	---	Sand	Coarse sand goes to very fine or silty sand at 3'. Water enters at interface. No clay in 5', may be silt in bottom. Sampled from pile and ran for Granular Borrow, Item 105. Work floor with drag line or clam shell as floor at east side of pit is very spongy. Test #6 dug 75' south of south end of small dozed ramp at east end of pit. Log of Test: 0.5'-3', fine sand; 3'-9', coarse sand.
71	1	1968	1-9.5	0-1	Yes	100	99.0	95.9	19.1	5.0 4.7*	1	---	Gran. Borrow (Sand)	Owner: Vermont Marble Co. Area is old pit southeast of Map Identification No. 70, 0.06 mile east of Vermont Route No. 3, and 0.33 mile south of Town Highway No. 15. Pit floor is same elevation as top of face of Map Identification No. 70. This is more pebbly than area to the west. Owner not interested in selling material. Test #1 dug south of small ridge and near birch tree 300' southeast of skeet tower or shed. Log of Test: 1'-5', fine and silty sand; 5'-9.5', coarse sand and pebbles. Moist silt in bottom. NOTE: Small ridge is apparently piled strippings.

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 90

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
72	1	1968	1.5-11	0-1.5	Yes	100	95.8	93.5	56.1	20.0 19.9*	1½	---	---	Owner: Mrs. Christine Cizmadio. Area is a hilly pasture with a pit at the west end. There are mostly fine sands in the west end of pit and somewhat coarser material on the east side of the pit. All beds dip to the east. Area is just north of Map Identification No. 73 and is 0.12 mile east of Vermont Route No. 3 and 0.18 mile north of the Proctor Town Line. Test #1 was dug on the south face. From 1.5'-11' is interbedded fine sands and silts. An additional sieve analysis follows: Passing #10 - 99.5% Passing #40 - 95.5% Passing #80 - 56.4% Passing #200 - 19.7%
	2	1968	2-15	0-2	Yes	91.2	74.3	58.0	14.5	4.0 2.3*	1	---	Gran. Borrow (Sand)	Test #2 dug on south face 50' east of Test #1. Log of Test: 2'-6', fine sand; 6'-11', interbedded sand, pebbly sand, and gravel. Some 3"-6" cobbles. A few +6" boulders noted. From 11'-15' is sand bottoming in pebbles. An additional sieve analysis follows: Passing #10 - 94.9% Passing #40 - 87.6%

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 91

Map Ident. No.	Field Test No	Year Field Tested	Depth of Sample (Ft)	Overburden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1968	3-18	0-1.5	Yes	100	90.2	82.1	36.1	5.0 4.1*	1	---	Gran. Borrow (sand)	<p>Passing #80 - 58.8%</p> <p>Passing #200 - 10.8%</p> <p>Test #3 dug on east face (21' face). There is interbedded sand and fine gravel from 3'-18'. Unable to sample from 1.5'-3'. Sample bottoms in silt.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 81.7%</p> <p>Passing #40 - 74.1%</p> <p>Passing #80 - 49.9%</p> <p>Passing #200 - 10.4%</p>
	4	1968	1.5-11	0-1.5	Yes	100	100	100	25.0	5.0	1½	---	Gran. Borrow (Sand)	<p>Test #4 dug on ridge 225' southwest of pit. From 1.5'-11' is sand over fine sand. Bottoms in silty sand.</p> <p>An additional sieve analysis follows:</p> <p>Passing #10 - 100.0%</p> <p>Passing #40 - 99.5%</p> <p>Passing #80 - 46.2%</p> <p>Passing #200 - 7.3%</p>
73	1	1968	1.5-7	0-1.5	Yes	100	97.7	92.9	8.4	2.0 1.9*	1½	---	Sand	<p>Owner: Mrs. Catherine Cizmadio.</p> <p>Area is a small pit south of a stone wall, below the crest of a grassy knoll and at the base of a pine-wooded knoll. Possible extent is to the south and east. Area is south of Map Identification No. 72, 0.17 mile east of Vermont Route 3, and 0.18 mile north of Proctor Town Line.</p>

*Percentage of Total Sample

TABLE I

PITTSFORD GRANULAR DATA SHEET NO. 92

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Exist-ing Pit	Sieve Analysis % Passing					Color AASHO T-21	Abrasion AASHO T-4-35	Passes VHD Spec.	Remarks		
						1 1/2"	5/8"	#4	#100	#270						
	2	1968	---	---	Yes	N	O	T	S	A	M	P	L	E	D	<p>Test #1 taken on southeast face.</p> <p>Log of Test: 1.5'-3.5', reddish-brown sand; 3.5'-7', gray sand which gets coarser with depth.</p> <p>An additional sieve analysis follows:</p> <p> Passing #10 - 92.3%</p> <p> Passing #40 - 41.8%</p> <p> Passing #80 - 13.6%</p> <p> Passing #200 - 3.5%</p> <p>Test #2 dug in pit floor. There was till at 2' and below. Deposit is just thin, surficial.</p>

*Percentage of Total Sample

TABLE I
Supplement

PITTSFORD PROPERTY OWNERS - GRANULAR

Map Ident. No.

Brennan, Jean and Peter	34
Buzzell, Frank	17, 18
Carey, Clarence	9, 10
Carrigan, James	33, 35, 36, 37, 38, 39, 40, 41
Chrusciel, Daniel	19
Cizmadio, Christine (Mrs.)	72, 73
Crahan, John	27, 32
Duchane, Clarence	69
Eugair, George	5, 6
Fallon, Henry	20
Fish, Harold	50
Fox, Charles A.	63, 64, 65
Freeman, Royce	49
Gagnon, Joseph	60, 66, 67
Giddings, Ray	51, 53
Godrick, Adam	8
Hitzel, Catherine S.	61
Hurley, James	42, 43
Keenan, Dr.	11
Keith, John	23, 24
Lovejoy, Frank	15
Mandigo, Royce	45, 46
Markowski, Peter	3, 16
Marro, James C.	21, 22
Miller, Loring E.	12
Mills, Allen	1, 2
Mills, Perley	62
Phelps, Lorenzo	54, 55, 56
Pomainville, Edward, Sr.	13, 14
Rowe, Anson J.	26
Rowe, Richard	47
Rusin, John	4
Smith, Robert	28, 29, 30, 31
Smith Robert L.	25
Stevens, Grace A. (Mrs.)	68

TABLE I
Supplement

PITTSFORD PROPERTY OWNERS - GRANULAR
(CONTINUED)

Map Ident. No.

Taylor, Warren H.	48
Tennien, Jerome	41
Thomas, Orin	52
Vermont Marble Company	70, 71
Webster, Cyril (Mrs.)	44
Wheeler, Edward	57, 58, 59

TABLE II

PITTSFORD ROCK DATA SHEET NO. 1

Map Ident. No.	Field Test No.	Year Field Tested	Rock Type	Exist- ing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
1	1	1968	Limestone or Dolomite	No	Chip	3.1%	<p>Owner: John Zelazny. (Vermont Marble Company retains the mineral rights.)</p> <p>Area is a ridge of outcrops west of the quarry and vicinity of Map Identification No. 2. Area is 0.3 mile west of Town Highway No. 16 and 0.86 mile north of State Aid Highway No. 1. It consists of three rocky knolls which get progressively lower to the west. The relief varies from 20' to about 60'. The rock is thin-bedded, gray-weathered, buff to light gray calcareous dolomite, or siliceous limestone. Rock breaks nearly angular to slightly blocky. Most of the sample was in the weathered zone. The area is accessible and could be worked rather easily if there is suitable material. The rock, mapped as the Shelburne Formation, is more dolomitic than that from Map Identification No. 2 to the east and may be the Intermediate Dolomite Member of the Shelburne Formation. The rock beds strike about N20°W and dip from gently eastward to nearly vertical. Sampled randomly N70°W along the outcrop. Power lines pass overhead.</p> <p>The AASHO T-96 abrasion result was 26.9%.</p>
2	1	1968	Marble or Limestone	Yes	Chip	4.6%	<p>Owner: John Zelazny. (Vermont Marble Company retains the mineral rights.)</p> <p>Area is a partly wooded knoll in a large, low, nearly flat pasture, just east of Map Identification No. 1 and 0.20 mile west of Town Highway No. 16 and 0.86 mile north of State Aid Highway No. 1 with a water-filled quarry near the east side. The quarry is 60' x 120'. Generally, the relief is about 20'-30', but the high point of nearly 100' is near the power lines. The rock is mapped as the Clarendon Springs Dolomite, but it seems to be the Shelburne Formation, a white marble with some gray limestone and with some buff dolomite. This area would be easy to develop as it has easy access. The sample was taken from random blocks. The total size of Map Identification Numbers 1 and 2 is about 600' x 800'. The AASHO T-96 abrasion result was 58.9%.</p>

TABLE II

PITTSFORD ROCK DATA SHEET NO. 2

Map Ident. No.	Field Test No.	Year Field Tested	Rock Type	Existing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
3	1	1968	Dolomite	No	Chip	2.5%	<p>Owner: Dr. Keenan.</p> <p>Area is a knoll on a rocky pasture, 150' east of the junction of State Aid Highway No. 1 and Town Highway No. 16. Sampled for 150' across strike of rock. The rock is a rather thin-bedded, gray to buff-weathered dolomite with 1' thick quartzite beds separated by about 20' of dolomite beds. The strike is nearly north-south and dips rather steeply to the east with varying degrees. It may be best to develop from south to north along the strike rather than from east to west. The three outcrops sampled had about 30'-40' relief. However, the northerly extension has about 50'-60' relief. The AASHO T-96 abrasion result was 27.8%.</p>
4	1	1968	Marble or Limestone	Yes	Chip	5.8%	<p>Owner: Vermont Marble Company (formerly the Hollister property).</p> <p>The area is old quarry site and vicinity, 0.2 mile south of the west end of Town Highway No. 20 and 0.4 mile southwest of Town Highway No. 19. Area is about 250' west of railroad spur. The water-filled quarries are bounded on the west by a 60' high scarp. The rock does not look too good, but it may pass. Road and rail access would allow easy development of the area. The AASHO T-96 abrasion result was 54.2%.</p>
5	1	1968	Dolomite	No	Chip	3.2%	<p>Owner: Robert Haselton.</p> <p>Area is a hilly, rocky pasture on the west side of State Aid Highway No. 1 and south of Town Highway No. 19 with outcrops trending N10°W. The owner is willing to sell the rock which is mapped as the Winooski Formation, a buff to dark brown-weathered, tan, pink, or gray dolomite. The rock breaks from somewhat blocky to sub-angular. Some phyllitic or siliceous partings are present. The relief averages 30'+, with a maximum of 50'. The beds are 4" to 12" thick and dip steeply to the east about 70°. This location is recommended for a crushing operation as the amount, quality, and accessibility of material is good.</p>

TABLE I

PITTSFORD ROCK DATA SHEET NO. 3

Map Ident. No.	Field Test No.	Year Field Tested	Rock Type	Existing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
	2	1968	Dolomite	No	Chip	1.8%	<p>Test #1 was sampled nearly east-west from a point 670' south of fence at Town Highway No. 19. Sampled across 250' of outcrop. The AASHO T-96 abrasion result was 37.5%.</p> <p>Test #2 was sampled about parallel to, and 330' south of Test #1. The rock is similar to Test #1, but a bit more thin-bedded and more hackly in places. Perhaps the lower test results were due to the softer thin-bedded pieces being too small to be included in the sample. Outcrops cover about 300' x 1,300' and reappear one-third of a mile to the west beyond several low pastures. This would also be a good source of Sub-base of Crushed Rock, Item 204, as would Test #1. The AASHO T-96 abrasion result was 30.5%.</p>
6	1	1968	Quartzite	No	Chip	1.5%	<p>Owner: Harry Fallon.</p> <p>The area is a series of outcrops east of, and above, the pasture on the southwest side of Cox Mountain; 0.3 mile east of U. S. Route 7 and 0.8 mile north of State Aid Highway No. 2. The ledge is about 1,000' east of the approximate location of the project line and about 1,500' east of U. S. Route 7. Linden, who does not want any sampling and will not sell, owns the land north of Fallon's and which probably is an extension of the material on Fallon's land.</p> <p>Test #1 is reached across the edges of a field, east and north of Fallon's tenant-house. Sample was from outcrops on northeast and southeast edges of the nearly flat crest of the rocky, grassy knoll. There is ample talus around which could serve as another source of crushed rock. The outcrops trend a little west of north. The rock is a very hard, somewhat splintery, gray to nearly white, or pink quartzite which shatters a bit.</p> <p>There is plenty of good looking rock to the east of, and above the test site. Fallon owns the land over the south side of Cox Mountain and would sell the rock, so</p>

TABLE II

PITTSFORD ROCK DATA SHEET NO. 4

Map Ident. No.	Field Test No.	Year Field Tested	Rock Type	Exist-ing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
							so a quarry operation would have ample rock. Rock looks good. The AASHO T-96 abrasion result was 27.1%.
7	1	1968	Limestone or Marble	Yes	Chip	4.2%	<p>Owner: Adam Godrick. (Vermont Marble Company retains mineral rights.)</p> <p>Area is just east of the railroad tracks to the old Hollister quarry and 0.75 mile southwest from the junction of the access road and State Aid Highway No. 1 and 0.33 mile north of the junction of State Aid Highways No. 1 and No. 2. The area is a large field with four water-filled quarry holes and many quarried blocks. It is bounded on the east by a steep scarp, about 50' high. The rock is mapped as the Shelburne Formation and is mostly a gray limestone with some white marble.</p> <p>Test #1 was sampled from random blocks in grout pile.</p> <p>After pumping, this area could be relatively easily developed with easy access by road or nearby railroad. The quarry holes range in size from 40'x 40', to 70'x 100'. The AASHO T-96 abrasion result was 31.1%.</p>
8	1	1968	Dolomite or Quartzite	No	Chip	6.4%	<p>Owner: Frank Buzzell.</p> <p>The area is a rocky pasture with a small abandoned quarry on the west end which was the source of stone for the section of State Aid Highway No. 2 which bypasses the Hammond Covered Bridge.</p> <p>Test #1 was sampled west, from the top of the ridge behind barn for a distance of about 150' and down across the face of the rock cut. There is an outcrop 200' east of the sampled ridge, which contains a darker rock in insufficient amount to warrant sampling. However, the gray quartzite beds probably could be considered an extension of the acceptable material found in Test #1.</p> <p>Test #1 is the Monkton Formation, a rather blocky-breaking, buff or tan-weathered dolomite, with gray to black phyllite beds. There is enough phyllite to influence the abrasion results, but it was impossible to get large enough pieces to include in the sample. There is</p>

TABLE II

PITTSFORD ROCK DATA SHEET NO. 5

Map Ident. No.	Field Test No.	Year Field Tested	Rock Type	Existing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
							bedrock which outcrops south of the road in Granular Map Identification No. 18, Plate I, which may be an extension of acceptable material. The AASHO T-96 abrasion result was 31.1%.
9	1	1968	Marble	Yes	Chip	6.9%	<p>Owner: Vermont Marble Company.</p> <p>The area is an old water-filled quarry and vicinity now being used by White Pigment Company and near the mill. The beds strike nearly north-south and dip almost vertically to the east. The rock is a white, soft, sugary marble which weathers gray. It does not seem very good.</p> <p>Test #1 was sampled from random blocks. There is a scarp to the east of the quarry holes which might contain harder rock. The AASHO T-96 abrasion result was 58.8%.</p>
10	1	1968	Limestone	Yes	Chip	3.4%	<p>Owner: Vermont Marble Company.</p> <p>The area is the Loveland Quarry which is 0.67 mile south of State Aid Highway No. 8, east of the railroad tracks, and the plant area. The quarry floor is 100' x 250', and the various walls are from 15'-50' high. The quarry supplies material to the mill. The rock is Shelburne Formation, a dove-gray limestone which weathers buff to tan and light gray. It breaks from sub-angular to rather blocky. The beds strike nearly north-south and dip nearly vertically to the east. Ready access, by road and rail, and the extent of material, would allow easy exploitation of this area. The AASHO T-96 abrasion result was 26.6%.</p>

TABLE II
Supplement

PITTSFORD PROPERTY OWNERS - ROCK

Map Ident. No.

Buzzell, Frank

8

Fallon, Harry

6

Godrick, Adam

7

Haselton, Robert

5

Keenan, Dr.

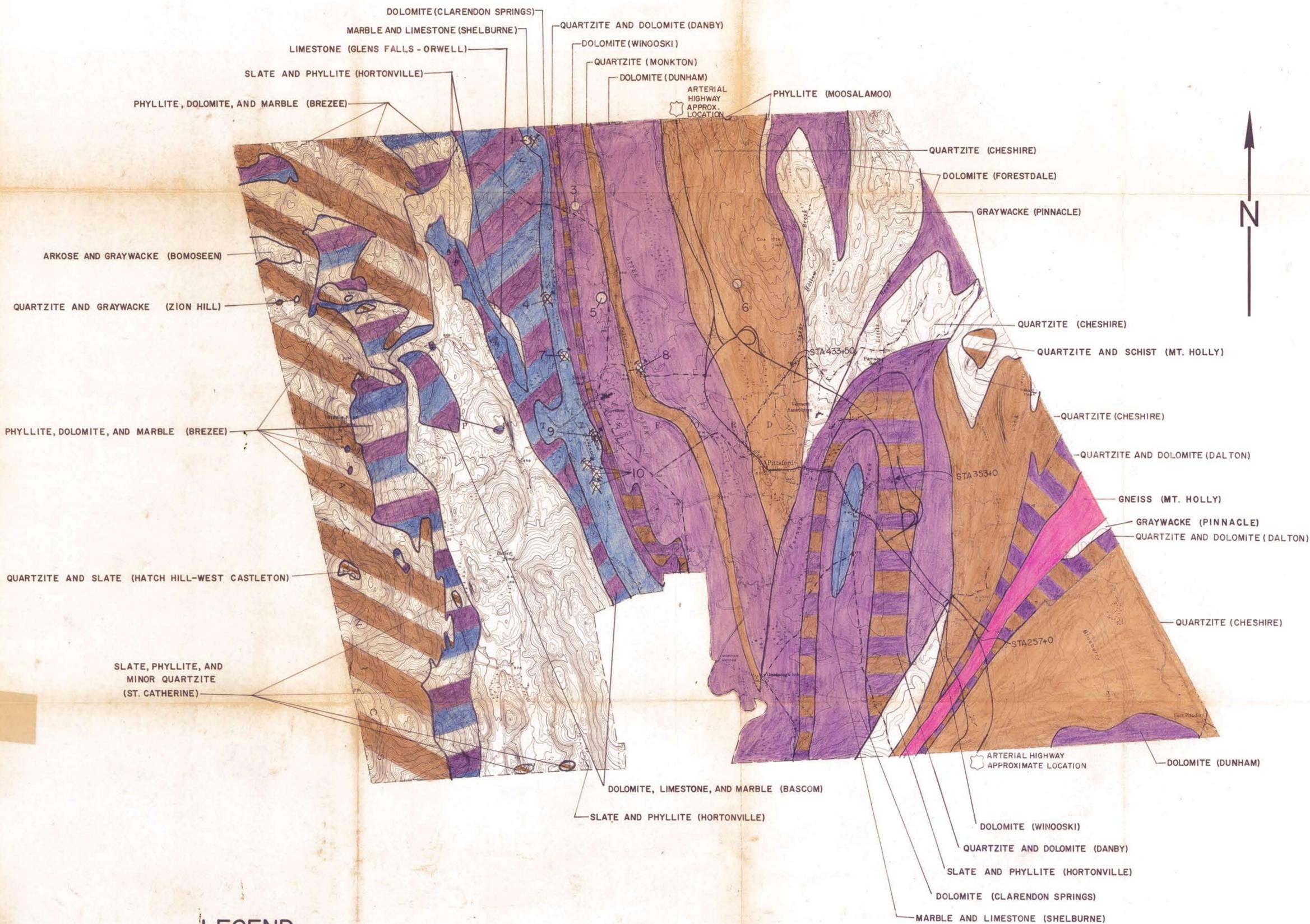
3

Vermont Marble Co.

4, 9, 10

Zelazny, John

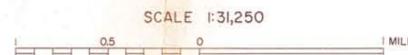
1, 2



LEGEND

- ROCK, ACCEPTABLE FOR ITEM 204 (sub base of crushed rock)
- ROCK, NOT ACCEPTABLE FOR ITEM 204
- ⊗ EXISTING QUARRY
- Orange box GRANITE TO DIORITE (light to intermediate igneous rocks)
- Green box AMPHIBOLITE, GABBRO, DIABASE, METADIABASE, GREENSTONE, TRAP DIKES (basic or dark igneous rocks)
- Red box PERIDOTITE, PYROXENITE, SERPENTINITE (ultra-basic igneous rocks)
- Pink box GNEISS
- Brown box QUARTZITE
- Purple box DOLOMITE
- Blue box MARBLE, LIMESTONE
- White box SCHISTS, SLATES, PHYLITES, SHALES, CONGLOMERATES
- 3 IDENTIFICATION NUMBER (refer to data sheets)

PITTSFORD



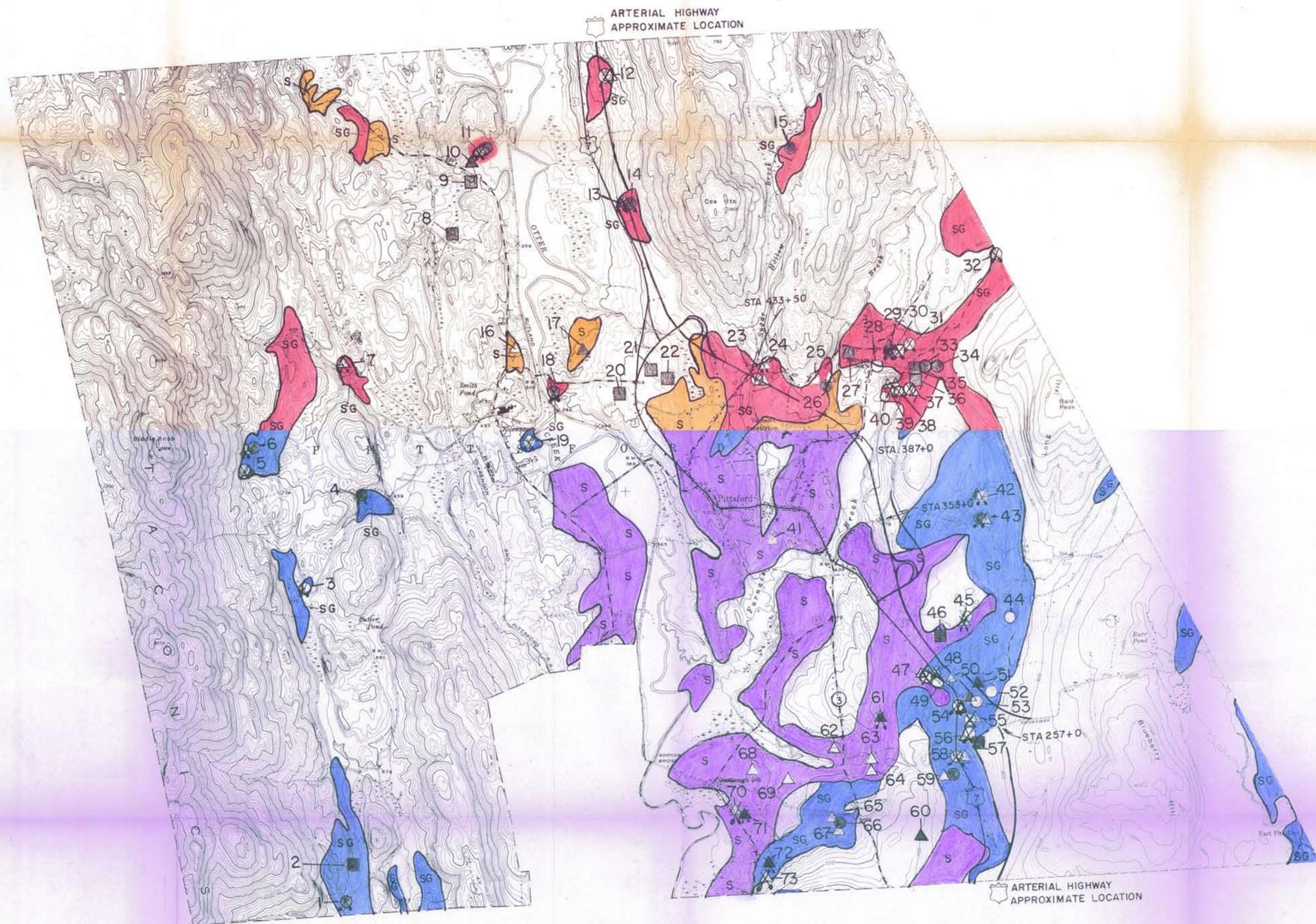
SCALE 1:31,250
CONTOUR INTERVAL 20 FEET
1969

ROCK MATERIALS MAP
BY
VERMONT DEPARTMENT OF HIGHWAYS
IN COOPERATION WITH
U.S. BUREAU OF PUBLIC ROADS

NOTE: BASED ON U.S.G.S. TOPOGRAPHIC MAPS

REVISIONS

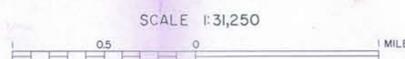
DATE					
BY					



LEGEND

- GRAVEL, ACCEPTABLE FOR ITEM 201 (sub-base of gravel)
- GRAVEL, DEPLETED OR NOT ACCEPTABLE FOR ITEM 201
- △ SAND, ACCEPTABLE FOR ITEM 202 (sub-base of sand)
- ▲ SAND, DEPLETED OR NOT ACCEPTABLE FOR ITEM 202
- GRANULAR BORROW, ITEM 105
- MATERIAL NOT ACCEPTABLE FOR ITEM 105
- ✕ EXISTING PIT
- SG SAND & GRAVEL DEPOSIT
- S SAND DEPOSIT
- 3 IDENTIFICATION NUMBER (refer to data sheets)

PITTSFORD



CONTOUR INTERVAL 20 FEET

1969

**GRANULAR
MATERIALS MAP**

BY
VERMONT DEPARTMENT OF HIGHWAYS
IN COOPERATION WITH
U.S. BUREAU OF PUBLIC ROADS

NOTE: BASED ON U.S.G.S. TOPOGRAPHIC MAPS

DATE				
BY				