

**SURVEY OF HIGHWAY CONSTRUCTION MATERIALS  
IN THE TOWN OF DUMMERSTON, WINDHAM COUNTRY, 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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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 materials 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.

#### Inclusures

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 conducted by Professor D.P. Stewart of Miami University, Oxford, Ohio, who had been mapping the glacial features 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, the Surficial Geologic Map of Vermont, 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 the 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 Dummerston is located slightly south of the east central part of Windham County in the southeast section of the State. The town lies in the north central part of the Brattleboro Quadrangle, and is west of the Connecticut River, south of Putney and Brookline, southeast of Newfane, northeast of Marlboro, and north of Brattleboro. (See County and Town Outline Map of Vermont on the following page).

The extreme western part of Dummerston lies in the Green Mountain Physiographic Subdivision. The rest of the town is in the Vermont Piedmont Physiographic Subdivision.

Even though there are no major peaks in town, most of the topography is definitely hilly. In places, quite steep slopes occur. There is 1,000' of relief in a distance of 2,500' between the West River and the top of Black Mountain. A few flat areas occur in or near the valleys of the West and Connecticut Rivers.

Major drainage is southeast via the West River. It joins the south-flowing Connecticut River in Brattleboro. Fall Brook flows south, and Stickney Brook flows east into the West River. Canoe and Salmon brooks flow southeastward into the Connecticut River. The stream valleys are mostly narrow and rather steep-sided.

The highest point, about 1680', is in the southwest part of town, a bit west of 1640-foot Dummerston Hill, and just east of the Marlboro town line. There is an unnamed 1,502-foot hill in the north part of town, about 1700' east of the head of Fall Brook. Black Mountain, the high granitic body in town at 1,280', lies east across the West River from West Dummerston. The lowest elevation is 253' on the Connecticut River in the southeast part of town.



## 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

All of the rocks in Dummerston lie in the Eastern Vermont Stratigraphic Sequence except the Missisquoi Formation which is in the Green Mountain Stratigraphic Sequence. The Missisquoi Formation does not have any outcrops exposed in Dummerston which are acceptable for Sub-base of Crushed Rock, Item 204.

The granite quarry and its extension of the west side of Black Mountain lie in the New Hampshire undifferentiated granitic rocks. This quarry, Map Identification No. 1, contains more than enough material for any jobs in the area, and should be considered the best source of Item 204 in town. The quarry is east across the West River from West Dummerston and Vermont Route No. 30. The steel bridge on Town Highway No. 62 is recommended for access across the West River.

The only other formation in Dummerston which has rock acceptable for Item 204 is the Standing Pond Amphibolite Member of the Waits River Formation. This rock occurs in four long narrow bands in the eastern half of the town. It has been quarried at Map Identification No. 2 in the southeast part of Dummerston, and used on the I-91 construction. The amphibolite passed the wear tests in all but one of the samples taken for the project. Even though the rock is not as homogeneous as that of Map Identification No. 1, there is an ample supply which should be considered an adequate source of Item 204.

Besides the two quarried rock types listed, and the schist and quartzite of the Missisquoi Formation the town has schist, amphibolite, and quartzite of the Shaw Mountain Formation; slate of the Northfield Formation; schist and limestone of the Waits River Formation; phyllite or schist, and quartzite of the Gile Mountain Formation; granulite and schist of the Fitch Formation; and schist, phyllite, and quartzite of the Littleton Formation. The rocks become progressively younger to the east.

## 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

Granular materials in the town of Durmerston consist of kame terrace gravels and sands in the western two-thirds of the town. The eastern one-third of the town has gravels and sands of kame terrace and kame moraine origin, as well as some fluvial sand deposits near the Connecticut River. The gravels in the west are generally coarser and have rounder stones than the more tabular gravels in the east.

The most promising sources of Sub-base of Gravel, Item 201, are Map Identification numbers 8, 9, 25, 30 and 36. Numbers 8 and 9 are part of the same feature, a kame terrace. This is a steep, high granular deposit which contains the two largest gravel sources in the west part of town. It would be necessary to strengthen several small bridges over Stickney Brook on Town Highway No. 47 to allow safe truck travel. The gravel road is narrow, steep and winding in places. Most of the material would be bank run.

Map Identification Number 25 is mapped as kame moraine. It was estimated to contain between 10,000 and 20,000 yards of material; however, since the time of sampling (8/26/69) the owner has been drawing from pit and the present amount could be considerably less. Access is via pit road north to Town Highway No. 43.

Map Identification No. 30 is mapped as kame moraine. This area looks like a good source which may contain an estimated 20,000 to 30,000 yards of gravel. Access is via a farm and pit road northeast to Town Highway No. 43.

Map Identification Numbers 36 and 37 are both part of the same kame moraine. One problem for any developer of these areas is that access would be north to the extension of Town Highway No. 43, and then west through the I-91 underpass. This underpass severely restricts the size of vehicles passing under the highway. Map Identification No. 37 has only one gravel sample taken, and that was in the floor. However, due to the size of the deposit, and its proximity to Map Identification No. 36 where a number of acceptable gravel samples were taken, it can be

tentatively listed as a good source.

Map Identification No. 38 has acceptable gravel and sand. There may be from 20,000 to 50,000 yards of gravel left; however, this is only an estimate. Access is by pit road and owner's driveway to the west.

Map Identification No. 42 is located mostly in Brattleboro and is being leased by the owner to C. M. Struthers who is stockpiling gravel in the north end of the pit. The only extension of material is southward into Brattleboro. Because of a lease it is unknown if this source would be available.

Less promising sources of acceptable gravel are Map Identification Numbers 2, 5, 10 and 11, all in the west part of town; and Numbers 21, 24, 26, 28, 29, 31, 34, 35 and 40 which are in the east. Areas where acceptable gravel samples were obtained, but which are extremely limited in extent, or are nearly depleted are numbers 4, 6, 7, 12, 14, 15, 21, 24, 26, 28, 29, 31, 34, 35, and 40.

The most promising sources of Sub-base of Sand, Item 202, are Map Identification Numbers 24, 38, 37, 21, and 22. These areas have acceptable samples and are either large pits, or have pretty good extensions. Number 24 has an estimated 75,000 cubic yards of sand between Tests #4, 6, and 7. There seems to be a good sand source at Number 37, but it should be noted that there were no face samples taken due to heavily sloughed material down the long face. Also, there is a problem of vehicle size which could use the I-91 underpass to Town Highway No. 43.

The large pit at Number 21 appears to have a good quantity of material remaining. The pit at Number 22 is just a southward extension of Number 21. Good access to both would be via pit road, then west through the driveway of the owner of Number 21.

In summary, the better sources of gravel are in the west part of town; and the better sources of sand are in the east. With the exception of Map Identification Numbers 32, 33, 36, and 37, which would have to use the I-91

underpass, all sources listed have good access. The sources on Town Highway No. 47 in the west part of town have good access, but care should be taken with regards to the bridges over Stickney Brook, and the condition of the gravel road.

The town of Dummerston has been plagued with road-and bridge-washouts, so it is advisable to check present conditions with the road commissioner.

## SUMMARY OF ROCK FORMATIONS IN THE TOWN OF DUNSTERSTON

Fitch formation: Quartz-plagioclase-biotite granulite; actinolite-diopside granulite; impure limestone and dolomite mica schist; the carbonate-rich beds are typically an inch or two thick and segmented so as to give the weathered outcrop a characteristic pitted appearance.

Gile Mountain formation: Gray quartz-muscovite phyllite or schist, interbedded and intergradational with gray micaceous quartzite, calcareous mica schist, and, locally, quartzose and micaceous limestone like that of the Waits River formation. The phyllite and schist commonly contain porphyroblasts of biotite, garnet, staurolite, and, locally, kyanite, andalusite or sillimanite.

Littleton formation: Gray slate and phyllite containing interbeds of gray schistose quartzite  $\frac{1}{4}$  inch to 8 inches thick. South of Bellows Falls gray phyllite passes eastward into gray mica schist containing porphyroblasts of biotite, garnet, and staurolite.

Missisquoi formation: Rusty weathering carbonaceous mica schist, quartzite and micaceous quartzite.

Northfield formation: Dark gray to black quartz-sericite slate or phyllite with fairly widely spaced interbeds a few inches thick of siltstone and silty crystalline limestone like that of the Waits River, phyllite passes into gray quartz-sericite schist containing abundant porphyroblasts of biotite and garnet in southern Vermont.

Shaw Mountain formation: quartzite, quartz conglomerate, cummingtonite schist, amphibolite, and quartz-sericite schist with porphyroblasts of biotite and garnet.

Standing Pond Volcanic Member: Amphibolite, garnet - amphibolite, coarse garnet schist with fasciculitic hornblende and hornblende maculite; passes eastward into actinolitic greenstone and greenstone south of Windsor.

Undifferentiated Granitic Rocks: Fine- to coarse-grained granitoid rocks including granodiorite and quartz monzonite occurring as sills and irregular bodies.

Waits River formation: Gray quartzose and micaceous crystalline limestone weathered to distinctive brown earthy crust; interbedded and intergradational with gray quartz-muscovite phyllite or schist. Where more metamorphosed the limestones contain actinolite, hornblende, zoisite, diopside, wallastonite, and garnet, and the phyllite and schist, biotite, garnet, and locally andalusite, kyanite or sillimanite.

## GLOSSARY OF SELECTED GEOLOGIC TERMS

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

Breccia - A rock consisting of consolidated angular rock fragments larger than sand grains. There may be fault, talus, and volcanic breccia.

Calcareous - Pertaining to or containing calcium carbonate.

Carbonate Rocks - Rocks composed of the molecule  $\text{CO}_2$  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 Greek letter delta.

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

Siliceous - Containing or pertaining to silica (silicon dioxide,  $\text{SiO}_2$ ).

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.

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## 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 AASHO 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 AASHO 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"
	Item 205-A	No. 4
	Fine-Graded	1½"
	Item 205-B	No. 4

"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 that twenty (20) when tested by laboratory methods using Method AASHO T-4 or more than thirty-five when tested by AASHO 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 AASHO 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 (3½) as determined by the colorimetric test described in the AASHO Method of Test, Designation T-21."

Item 207, Sub-base of Dense Graded Crushed Rock

"Article 207.02 - materials. The crushed rock shall consist of granular fragments of hard, durable rock, of uniform quality throughout, reasonably free from thin or elongated pieces, soft or disintegrated rock, dirt or other objectionable matter."

"The rock shall meet the following requirements:

" The percent of wear shall be not 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."

"When tested by laboratory methods, using Method AASHO T-27, the material shall meet the requirements set up in the following table:

	Square Openings	Percent Passing
Grading	3"	100
	2"	80-100
	1½"	50-75
	No. 4	30-55
	No. 100	3-10
	No. 270	0-6

"The dense graded rock shall be homogeneous and shall be produced and manipulated in such a manner as to prevent segregation before material is spread on the prepared subgrade, or at other locations."

TABLE I

## DUMMERSTON 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	1	1969	1-9	0-1	No	96.2	87.9	75.3	5.1	2.8 2.1*	4	-----	-----	<p>Owner: L. A. Patriquin Area is a flat, terrace-like open field on the south side of the west end of Town Highway No. 6.</p> <p>Test #1 was a hand sample near the top of the wooded slope, 325' south-southeast of the road, and just southwest of the Badminton Court.</p> <p>Log of Test: 0'-1', ov.; 1'-9', pebbly sand and gravelly sand. Bottoms in clean gravelly sand. Material not available from present owner.</p>
2	1A	1969	1.5-10.5	0-1.5	Yes	61.7	46.7	32.0	8.0	2.9	1½	26.2%	Gr. Borr. (Grav.)	<p>Owner: Maple Valley Ski Area, Inc.</p> <p>Area is a pit 100' south of Vermont Route No. 30 near Station 418 + 50'. The manager said material would be available. The pit has overgrown and sloughed faces. The wooded east face drops abruptly down to Vermont Route 30', the south extension is limited by a woods road. There is only slight extension to the north.</p> <p>Test #1A was a hand sample of northwest face near north end of pit.</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 2

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (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	1969	10.5-23	----	Yes	63.1	55.6	43.7	5.0	2.6	1	23.1%	Gravel	Log of Test #1A: 0'-1.5', ov.; 1.5'-10.5', gravel with cobbles. Bottoms in gravelly sand. Test #1B, dug on face below Test #1A.
	2	1969	1-11	0-1	Yes	66.0	49.1	32.9	9.0	4.2	1	20.7%	Gravel	Log of Test: 0'-1.5', ov.; 10.5' - 13.5' gravel with cobbles; 13.5'-18', cobbly sands; 18'-23', pebbly and gravelly sand. Test #2 was dug in floor, 25' northeast of Test #1.
3	1	1969	1-10	0-1	Yes	60.2	47.9	36.3	7.0	1.0	2½	27.8%	Gr. Borr. (Grav.)	Log of Test: 0'-1', ov.; 1'-11', gravel with cobbles which have a silty coating; pretty hard packed, overall. A few small boulders. Hole bottoms on silt and stones. Owner: Maple Valley Ski Area, Inc. Area is a small pit and limited extension, above and northwest of Elliott's Garage on Vermont Route 30, and southeast of the eastern end of Town Highway No. 60. This area is part of a kame terrace, and extends to the south-southeast across a woods road. Test #1 was a hand sample on south-southwest face of pit.

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
	2	1969	0.5-8.5	0-0.5	Yes	65.6	51.7	37.7	7.0	1.6	1	29.4%	Gr. Borr. (Grav.)	<p>Log of Test: 0'-1', ov.; 1'-4', sandy gravel; 4'-4.5' densely packed fine sand seam; 4.5'-10', gravel with some silt.</p> <p>Test #2 was dug in floor, 30' north of Test #1.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-3.5, bouldery gravel; 3.5'-5', cobbly gravel; 5'-6', sand seam; 6'-8.5', cobbly gravel with boulders. There are about 10-15% 6-inch + boulders.</p>
	3	1969	1-9.5	0-1	Yes	68.1	51.9	40.2	4.0	1.7	1	29.2%	Gr. Borr. (Grav.)	<p>Test #3 was dug in field 120' west of west face of pit, and 90' south of access road which leads to Town Highway No. 60.</p> <p>Log of Test: 0'-1', ov.; 1'-7.5', bouldery gravel; 7.5'-8', sand seam; 8'-9.5', bouldery gravel.</p>
4	1	1969	2-9	0-2	Yes	72.2	51.7	37.6	10.0	3.0	2	22.0%	Gravel	<p>Owner: Don Elliott (formerly owned by K. C. French)</p> <p>Area is a pit east of woods and west of Don Elliott's Gas Station across from the cemetery on Vermont Route 30 and 0.91 mile north of the covered bridge. The area is part of a kame terrace which</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
	2	1969	3-12	0-3	Yes	61.9	45.9	32.0	16.0	9.0	1	22.2%	Gr. Borr. (Grav.)	<p>extends north-northwest and south-southeast; however, due to property lines and development the amount of material available is minimal. This area is part of the same feature containing the granular areas belonging to Maple Valley Ski Area, Inc. The property line is about 50' south of Test #1.</p> <p>Test #1 was a hand sample on the stripped south face. Log of Test: 0'-2', not in place; 2'-9', gravel.</p> <p>Test #2 was hand sampled on the north face. There is a 3' zone of fine sand which was removed from above gravel. This test was more silty than Test #1. From 3'-12' was gravel.</p>
	3	1969	0.5-4.5	0-0.5	Yes	66.5	46.6	27.8	14.0	5.5	1	22.0%	Gr. Borr. (Grav.)	<p>Test #3 was dug in floor at north end of pit, 25' south of Test #2. Log of Test: 0'-0.5', ov.; 0.5'-3.5', gravel; 3.5'-4.5', gravel and water. Bottoms in clay at 4.5'.</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 5

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	1969	0.5-5.5	0-0.5	Yes	57.5	40.0	24.0	16.0	8.2	1	25.4%	Gr. Borr. (Grav.)	<p>Test #4 dug in floor of south end of pit, 30' north of Test #1.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-4.5', bouldery gravel; 4.5', bottoms in clay seam, water and ledge or large boulder.</p> <p>This area is very close to the project line, and may be taken by it.</p> <p>Owner: Maple Valley Ski Area, Inc.</p>
5	1	1969	1-11	0-1	Yes	74.7	60.0	45.4	10.0	5.0	2	22.0%	Gr. Borr. (Grav.)	<p>Area is pit on west side of Vermont Route No. 30, 0.60 mile north of covered bridge, and southeast of ski tows.</p> <p>The kame terrace seems to pinch out south south-eastward. The southwest extension is limited by bedrock. The best possibilities seem to be to the northeast, represented by Test #1.</p> <p>Test #1 is on 16.5 foot northeast face of pit.</p> <p>Log of Test: 0'-1', ov.; 1'-4', pebbly sand; 4'-11' sandy gravel. There were 2 6-inch thick silt seams noted. Bottoms at 11' in gravel and slough.</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
	2A	1969	1-8	0-1	Yes	82.6	66.8	48.4	3.0	1.5	3	19.4%	Gravel	Test #2A was on 15' face at south end of pit. Log of Test: 0'-1', ov.; 1'-3', gravel; 3'-4', pebbly sand; 4'-8', gravel.
	2B	1969	8-14	----	Yes	85.8	67.6	41.1	3.0	0.5	1	26.5%	Gr. Borr. (Grav.)	Test #2B was sampled by backhoe and hand shovel. Log of Test: 8'-9', fine gravel; 9'-14', gravel with cobbles which are silt-clay coated.
	3	1969	1-4	0-1	Yes	83.7	72.9	54.2	6.0	2.0	1	25.9%	Gr. Borr. (Grav.)	Test #3 was dug in floor, 120' southwest of north part of pit face. Log of Test: 0'-1', ov.; 1'-4' gravel with cobbles and boulders. Test bottoms at 4' in clay and water.
	4	1969	0.5-2	0-0.5	Yes	N O T S A M P L E D							Test #4 dug in floor, 10' north of Test #2A-2B. Log of Test: 0'-0.5', ov.; 0.5'-2', gravel with boulders. Bottoms in clay at 2'.	
6	1	1969	1-7	0-1	No	60.1	46.8	34.7	5.0	0.9	1½	28.8%	Gr. Borr. (Grav.)	Owner: John S. Pullman (former Ed. Johnson property) Area is small pit and extension, east of Town Highway No. 45 and 1.10 miles west of Vermont Route No. 30.

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 7

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	Cbrasion AASHO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
2	1969	1.5-10.5	0-1.5	No	64.4	46.4	26.1	4.0	1.2	1	23.7%	Gravel	<p>The pit is in the southeast corner of a field south of the house.</p> <p>Test #1 was dug in the southwest part of the field, 325' west of the pit, 65' east of a jog in the fence, and 30' north of the stone wall.</p> <p>Log of Test #1: 0'-1', ov.; 1'-4', bouldery gravel; 4'-7', slightly cleaner, finer, coarse gravel.</p> <p>Overall, the material is quite stony. Test bottoms at 7' in coarse gravel.</p> <p>Test #2 was dug in field 75' west of pit, and 250' east of Test #1.</p> <p>Log of Test: 0'-1.5', ov.; 1.5'-3.5', cobbly gravel with sand; 3.5'-10.5', cobbly gravel, bottoms in same. Some tabular stones noted. About 5% of the stones are larger than 6".</p>	
3	1969	1-5	0-1	Yes	67.3	54.4	40.3	6.0	2.2	1	32.1%	Gr. Borrow (Grav.)	<p>Test #3 dug in floor of northwest corner of pit.</p> <p>Log of Test: 0'-1', ov.; 1'-5', cobbly gravel with some boulders. Bottoms in same; water fills to 1' below top of hole.</p>	

\*Percentage of Total Sample

TABLE I

DUMMERSTON GRANULAR DATA SHEET NO. 8

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				
	4	1969	2-15	0-2	Yes	69.4	55.4	43.3	3.0	1.5	2	30.1%	Gr. Borr. (Grav.)	Test #4 was a handsample of the northwest face of pit, 15' north of Test #3. Log of Test: 0'-2', strippings and ov.; 2'-8', cobbly gravel with some boulders; 8'-15', clean, fine gravel with a few cobbles. Bottoms in same.
	5	1969	1.5-7.5	0-1.5	No	100	100	87.4	44.9	22.1 19.3*	1	-----	---	Test #5 was dug at top of small mound, 25' south of fence in north part of field. Test was unstratified silt and sand, with some small stones or rock fragments. There were a couple of boulders near the top.
	6	1969	1-3	0-1	No	N O T S A M P L E D								Test #6 was dug in lowest part of the field northwest of old barn, east of Town Highway No. 45, and west of and below a bouldery terrace. Log of Test: 0'-1', ov.; 1'-3', boulders and loam. Bottoms in till. Owner: Theodore Gochenour
7.	1A	1969	1.5-14	0-1.5	Yes	62.0	51.6	37.9	22.0	8.0	1	22.8%	Gr. Borr. (Grav.)	Area is pit and extension east of Town Highway No. 47 where it makes a sharp turn to the north, and 1.5 miles west of Vermont Route No. 30. The pit extension is to the west and southwest. Test #1A was dug by hand

\*Percentage of Total Sample

TABLE I

## DULMERSTON 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
						1½"	5/8"	#4	#100	#270				
	1B	1969	14-26	---	Yes	50.5	44.3	34.7	12.0	4.2	1½	25.0%	Gravel	on upper part of 26-foot west face. Log of Test: 0'-1.5', ov.; 1.5'-7', dirty gravel; 7'-14', dirty cobbly, bouldery gravel. Test #1B was dug by hand down to floor level.
	2	1969	0.5-10.5	0-0.5	Yes	68.4	61.6	44.2	5.0	2.5	1	29.4%	Gr. Borr. (Grav.)	Log of Test: 14'-23', dirty-looking gravel; 23'-26', sand. Material is dirty and unsorted. Test #2 was dug in floor, 30' northeast of Test #1. Log of Test: 0'-0.5', ov.; 0.5'-7.5', silt-clay coated, coarse gravel; beds dip eastward; 7.5'-10.5', gravel, not as coarse as the top 7.5'.
8	1A	1969	1-8	0-1	Yes	100	87.3	72.0	2.2	1.0 0.7*	1	-----	Sand	Owner: C. M. Struthers. Area is a wooded kame terrace with a steep high-faced pit very close to the north side of Town Highway No. 47. The pit is 1.02 miles west of Vermont Route No. 30. Log of Test #1A: 0'-1', ov.; 1'-8', coarse, gravelly sand, and pebbly sand with some cobbles.

\*Percentage of Total Sample

TABLE I

DUMMERSTON GRANULAR DATA SHEET NO. 10

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	1969	8-17	-----	Yes	87.6	70.2	51.3	3.0	1.0	1	20.0%	Gravel	Log of Test #1B: 8'-10', boulder layer; 10'-17' fine gravel and pebbly sand.
	1C	1969	17-25	-----	Yes	80.3	61.8	39.9	3.0	1.0	1	19.8%	Gravel	Log of Test #1C: 17'-18', boulder layer; 18'-25', gravel and fine gravel.
	1D	1969	25-33	----	Yes	73.0	59.5	30.8	4.0	2.5	1	19.2%	Gravel	Log of Test #1D: 25'-27', fine gravel; 27'-29', sand; 29'-33', fine gravel.
	1E	1969	33-43	----	Yes	69.2	60.2	46.2	4.0	2.0	1	20.0%	Gravel	Log of Test #1E: 33'-37', gravel; 37'-39', p pebbly sand; 39'-43', fine gravel.
	1F	1969	43-60	----	Yes	85.0	68.7	47.4	4.0	1.5	1½	19.3%	Gravel	Log of Test #1F: 43'-48', fine gravel; 48'-50', pebbly sand; 50'-60', gravel; 60'-100' was sloughed and not sampled.
9	1	1969	6-24	0-2.5	Yes	86.6	69.4	51.6	5.0	2.1	1	17.7%	Gravel	Owner: Arthur Wood Area is a small pit which is on the east southeast end of the kame terrace which has a pit at Map Identification No. 8, 0.10 mile to the west. This pit is on the north side of Town Highway No. 47 at a point 0.87 mile west of Vermont Route No. 30. Test #1 was sampled by hand shovel and back-hoe on steep northwest face. Log of Test:

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 11

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	1969	0.5-10	0-0.5	Yes	75.8	62.1	52.8	8.0	2.6	1	23.1%	Gravel	0'-2.5', ov.; 2.5'-6', pebbly sand, not reachable; 6'-16', cobbly and bouldery gravel; 16'-24', cobbly sand and pebbly sand. Test #2 was dug in floor, 35' east of Test #1. Log of Test: 0'-0.5', ov.; 0.5'-10', gravel; Bottoms in gravel and water at 10'.
10	1	1969	1-12	0-1	Yes	76.2	68.4	54.7	2.0	0.8	1 1/2	----	Gr. Borr. (Grav.)	Owner: Raymond Wood Area is a pit or west side of Town Highway No. 43. The pit has a south-southwest extension and a minor extension to the northwest. Material would be available. Test #1 was sampled by hand on south face. Log of Test: 0'-1', ov.; 1'-6', pebbly and gravelly sand; 6'-8', cobbly sand; 8'-12, gravel with cobbles.
	2	1969	0.5-10.5	0-0.5	Yes	56.2	48.6	30.3	6.0	2.6	1	21.5%	Gravel	Test #2 was dug in floor, 20' north of Test #1. Log of Test: 0'-0.5', ov.; 0.5'-4.5', gravel; 4.5'-10.5', coarse gravel. The gravel has a slight dip to the west or northwest and is coarse enough (+15%

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
	3	1969	3-11.5	0-3	Yes	86.6	75.0	62.8	3.0	1.5	1	18.7%	Gr. Borr. (Grav.)	larger than 6") to warrant a small crusher. Test #3 was dug atop ridge at north end of clearing, 100' northnorthwest of north face of pit. Log of Test: 0'-3', ov.; 3'-7.5', gravel; 7.5'-11.5', fine gravel.
	4A	1969	1.5-9	0-1.5	Yes	100	100	67.1	13.7	3.5 2.3*	1	-----	Gravel Borr. (Sand)	Test #4A was dug at top of ridge, 100' S 40° W. of Test #1. Log of Test: 0'-1.5', ov.; 1.5'-8', pebbly sand; 8'-9', fine sand layer.
	4B	1969	9-12.5	-----	Yes	91.8	68.8	44.2	4.0	2.4	1½	18.3%	Gravel	Log of Test #4B: 9'-12.5', fine gravel and cobbles.
11	1	1969	1.5-10	0-1.5	No	70.4	62.5	55.0	3.0	1.3	1½	18.2%	Gravel	Owner: Raymond Wood. Area is a small wooded knoll 50' west of a small brook, and 330' west of Town Highway No. 48, and about 0.12 mile southwest of pit in Map Identification No. 10. Test #1 was dug by hand on north end of knoll, 110' north of, and 22' below the stone and wire fence which is Robert Dunklee's property line. The feature is of ice-contact origin and is probably a kame. The beds dip north and there

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 13

Map Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Over-burden (Ft)	Existing Pit	Sieve Analysis % Passing					Color AASHO	Abrasion AASHO	Passes VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														was some cementation noted. Log of Test #1: 0'-1.5', ov.; 1.5'-10', gravel.
12	1	1969	1-9	0-1	No	81.6	61.5	47.4	8.0	4.0	1½	21.2%	Gravel	Owner: Walter J. Zuk Area is large wooded section on a kame terrace east of Town Highway No. 62 and 1.05 miles south of the junction of Town Highway No. 62 with Vermont Route No. 30. Test #1 was dug in small clearing near old skid pile south of woods road, 230' east of property line, and near north edge of kame terrace. Log of Test: 0'-1', ov.; 1'-4', fairly clean, fine gravel with 5-10% boulders and 15% cobbles; 4'-9', cobbly gravel with a few boulders (overall coarser than top); 9'-?, silty sand. The terrain drops a few feet east of Test #1, but comes up again to about same elevation at Test #2, about 350' east of Test #1.
	2	1969	2.5-4	0-2.5	No									Test #2 dug in bulldozed strip on northeast side of woods road where it bends S. 25° E.

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
	3	1969	1.5-11	0-1.5	No	100	100	88.0	15.9	3.5 3.1*	1½	----	Sand	Log of Test #2: Top 2.5'-3' is reddish-tan silty sand, then a hard-packed, well-nested gravel. At 4' is ledge or huge boulder. Not sampled. Test #3 was dug 45' south of woods road in northeast part of large cut-over area, about 900' southeast of Test #2. Fairly uniform fine to medium sand, perhaps a little coarser below 9', going to gravelly sand at 11'.
	4A	1969	1-8	0-1	No	74.7	56.0	41.0	4.0	1.0	2½	23.4%	Gr. Borr. (Grav.)	Test #4A dug on side of old bulldozer trench on face of 3rd level terrace, 950'-1000' southwest of Test #3, and 160' back from edge of 2nd level terrace. The side of trench is about 7' high. The upper part of test represents material in 3rd level terrace. A gravel with cobbles, and less than 5% boulders. The material is granitic-derived and locks pretty clean.
	4B	1969	8-11	---	No	100	100	100	98.8	66.1 66.1*	1	----	---	Test #4B, dug in floor of trench, hit a gray silt similar to that in the bottom of Test #1. This silt probably represents a layer that rises from southwest to northeast. Bedrock limits material to the

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 15

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				
13	1A	1969	1-6	0-1	Yes	85.1	72.2	60.9	9.0	2.3	1½	18.9%	Gr. Borr. (Grav.)	<p>west. Access would be from east via woods road where culvert is washed out. Owner: William Oravez, (former Newton Property). Area is small pit with very little extension. This area is 0.1 mile east of State Aid Highway No. 2 and 0.3 mile north of the junction of State Aid Highways No. 1 and 2.</p> <p>Test #1A was a handsample on upper part of northwest face of pit.</p> <p>Log of Test: 0'-1', ov.; 1'-6', fine gravel with some interbedded silt. The beds appear to dip to the southwest. There are not many stones, and very few of them are over 3".</p>
	1B	1969	6-14	---	Yes	100	97.6	85.5	26.5	5.8 5.0*	1½	-----	Gr. Borr. (Sand)	<p>Test #1B. Log of Test: 6'-14', sand with some silt-clay seams and some pebbles. Test Bottoms in fine gravel at 14'. From 14'-20' is slough. Some stones in the pit seemed soft. The material may extend into the fields to the west and southwest, but the out-of-state owner did not want sampling in that area or in the fields.</p> <p>Owner: Dr. David Baldwin Area is a 3-acre pasture north of a woods road, 0.2</p>

\*Percentage of Total Sample

TABLE I

DUMMERSTON GRANULAR DATA SHEET NO. 16

Lap Ident. No.	Field Test No.	Year Field Tested	Depth of Sample (Ft)	Overburden (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				
	2	1969	3-11.5	0-3	No	100	97.8	93.4	53.4	14.5 13.5*	1	-----	-----	<p>rile south of Town Highway No. 20 (Canoe Brook Rd.), and 0.00 mile west of U. S. Rte. 5.</p> <p>Test #1 was dug in west end of a field 30' mapped as lane moraine, 30' northeast of small shed.</p> <p>Log of Test #1: 0'-0.5', ov.; 0.5'-1.5' gravel 1.5'-11', sand with some ¼" pebbles.</p> <p>Test #2 dug in south side of field near access road, 230' S. 45° E. of, and 4' below Test #1.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-3', fine gravel; 3'-4.5', silt-to clay with some angular pebbles noted; 4.5'-11.5', sandy silt.</p>
	3A	1969	1-3.5	0-1	No	73.2	61.6	48.3	7.1	2.6	1	17.5%	Gravel	<p>Test #3A was dug near U. S. Route 5 in the southeast corner of the field, and 300' S. 80° E. of Test #2,</p> <p>Log of Test: 0'-1', ov.; 1'-3.5', gravel.</p>
	3B	1969	3.5-11.5	-----	No	100	100	100	44.7	14.4 14.4*	1	-----	-----	<p>Log of Test #3B: 3.5'-11.5', fine sand with some silt seams.</p>
	4A	1969	1-6.5	0-1	No	41.3	54.2	41.5	8.0	1.3	1½	29.5%	Gr. Eorr. (Grav.)	<p>Test #4A was dug in the north northeast part of the pasture,</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
	4B	1969	6.5-11	-----	No	100	92.7	86.9	17.1	1.9 1.7*	1	-----	Sand	just south of tree line and fence, and west of bar-way; 250' N. 10° W. of Test #3A. Log of Test: 0'-1', ov.; 1'-6.5' gravel. Log of Test #4B: 6.5'-11', sand. Extension is to the north, but it is part of owner's horse farm, and is not available at present.
15	1	1969	3.5-8.5	0-3.5	No	73.7	65.2	48.7	5.6	1.3	1	20.7%	Gravel	Owner: Dr. David Baldwin. Area is small pasture southwest of access road, 0.2 mile west of U. S. Route 5, and 0.2 mile south of junction of Town Highway No. 20 with U. S. Route 5. Test #1 was dug in northwest part of field, and 70' north of dumping area used by Perini to dump silty overburden for previous job. Log of Test: 0'-3.5', ov.; 3.5'-5', sand; 5'-8.5', gravel; 8.5'-13.5', sand.
16	1A	1969	1-10	0-1	Yes	100	93.5	79.5	2.4	0.5 0.4*	1	-----	Sand	Owner: George E. Ranney Area is sand pit which is 0.22 mile west of U. S. Route No. 5, and 0.5 mile north of State Aid Highway No. 3. The north end of pit has been used recently; the south and west

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
	1B	1969	10-20	-----	Yes	96.6	94.6	82.3	7.2	0.9 0.7*	1	----	Sand	ends are partly overgrown and appear more silty. There is a possible extension to the northwest, up a pine-wooded ridge, and west to a slope uphill. Test #1A was handsampled on northwest face. Log of Test: 0'-1', ov.; 1'-3', fine gravel; 3'-8', pebbly sand; 8'-10', sand and some pebbles. Test #1B was a back-hoe sample below Test #1A. Log of Test: 10'-20', inter-bedded pebbly sand and fine sand.
	2A	1969	2-7	0-2	Yes	100	88.7	68.7	3.3	0.7 0.5*	1	----	Gr. Borr. (Sand)	Test #2A was dug in floor, 10' southeast of Test #1B. Log of Test: 0'-2', ov.; 2'-7', gravelly sand.
	2B	1969	7-12	---	Yes	100	94.6	98.8	23.5	4.7 4.2*	1	----	Gr. Borr. (Sand)	Test #2B: 7'-12', fine sand and silty sand.
	3A	1969	1-8	0-1	Yes	100	100	96.6	31.3	21.8 21.1*	1	----		Test #3A was a hand sample on gullied west face, 100' south of Tests #1A-1B. Log of Test: 0'-1', ov.; 1'-6', silt-to-clay and pebbles; 6'-8', silt-clay seams and sand lenses.

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
	3B	1969	8-22	---	Yes	100	95.5	69.9	2.8	1.9 1.3*	1	----	Gr. Borr. (Grav.)	Test #3B was dug by backhoe below Test #3A. Log of Test: 8'-22', interbedded pebbly sand, fine sand, and silt seams. Test Bottoms on bed-rock.
	4	1969	2.5-12.5	0-2.5	Yes	100	100	94.6	40.2	14.2 13.4*	1	----	----	Test #4 dug in floor in south-west corner of pit, 80' south of Test #3A-3B. Log of Test: 0'-2.5', ov.; 2.5'-12.5' silty sand.
	5	1969	1-12	0-1	No	100	100	94.2	20.7	4.4 4.1*	1½	----	Gr. Borr. (Grav.)	Test #5 was dug in cornfield, 225' N. 60° E. of Test #4, and near start of slope down to U. S. Route 5. Log of Test: 0'-1', ov.; 1'-12', sand with a few 1/2-inch pebbles.
	6	1969	1-6	0-1	No	100	100	96.5	75.6	71.8 69.3*	1	----	----	Test #6 was dug near fence at south part of cornfield, 400' S. 20° E. of, and 2.5' below Test #5. Log of Test: 0'-1', ov.; 1'-3', sand fine gravel; 3'-6', silt to clay.
	7	1969	1-8.5	0-1	Yes	100	91.3	75.4	7.8	3.5 2.6*	1	----	Sand	Test #7 was dug 60' south of pit, 80' east of woods and 190' north of fence. Log of Test: 0'-1', ov.; 1'-5', fine gravel; 5'-8.5', sand and pebbly sand.

\*Percentage of Total Sample

TABLE I

DUMMERSTON 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 VHS Spec.	Remarks		
						1½"	5/8"	#4	#100	#270						
	8	1969	1-3	0-1	No	N	O	T	S	A	M	F	L	E	D	<p>Beds dip slightly to the south. Test bottoms at 8.5' in silt to clay.</p> <p>Test #8 was dug in top of small rise 850' S. 85° E. of Test #7, and 110' west of U. S. Rte. No. 5 at a point 160' north of G. J. Nadeau's fence line.</p> <p>Log of Test: 0'-1', ov.; 1'-3', fine sand; Test bottoms at 3' in silt to clay.</p>
17	18	1969	3-12	0-1	Yes	90.0	77.3	55.7	12.0	4.0	1	19.4%	Gr. Borr. (Grav.)	<p>Owner: Gaston J. Nadeau</p> <p>Area is a small pit on east side of small wooded terrace, 0.25 mile west of U. S. Route No. 5. The access road is at Gaston's store, 0.20 mile north of the junction of State Aid Highway No. 3 and U. S. Route No. 5. Owner is cutting wood and developing camp sites. He said he would sell material at the right price. Pit is being drawn out of daily, as of 9/23/69.</p> <p>Test #1 was sampled by hand on northwest face.</p> <p>Log of Test: 0'-1', ov.; 1'-3', too steep to sample; 3'-12', dirty, sandy</p>		

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 21

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				
	2	1969	5.5-10	0-1	Yes	73.0	59.7	47.1	8.0	3.5	1	30.3%	Gr. Borr. (Grav)	gravel; 12-14', sand. Test Bottoms at 14' in slough. Note: The location where this test was taken has since been removed by Nadeau. Test #2 was sampled by hand and backhoe on west face of pit. Log of Test: 0'-1', ov.; 1'-5.5', out of reach; 5.5'-10', gravel; Test Bottoms in clay and rock.
	3	1969	2-12	0-2	Yes	97.5	83.9	64.5	3.0	0.9	1	31.7%	Gr. Borr. (Grav)	Test #3 was dug in floor, 30' east of Test #2. Log of Test: 0'-2', ov.; 2'-12', fine gravel with silt and sand. Test Bottoms in fine sand at 12'.
	4	1969	2-12	0-2	No	91.6	78.9	53.0	6.0	1.7	1	33.6%	Gr. Borr. (Grav)	Test #4 was dug in small clearing west and above pit and 15' east of woods road. Test was about 60' east of bedrock. Log of Test: 0'-2', ov.; 2'-12', gravel.
18	1	1969	1.5-11	0-1.5	No	78.1	64.6	49.7	6.0	2.2	1	----	Gr. Borr. (Grav)	Owner: Gaston J. Nadeau Area is small clearing in woods 0.13 mile southwest of Map Identification No. 17. Clearing is 150' N. 30° E. of junction in woods road. Log of Test #1: 0'-1.5', ov.; 1.5'-4', gravel; 4'-5', silt seam; 5'-11', grav-

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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	Passed VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
														elly sand and fine gravel.
19	1	1969	1-12	0-1	No	94.0	73.9	51.8	15.0	4.5	1½	22.1%	Gr. Borr. (Grav.)	Owner: Unknown Area is a wooded juniper-covered knoll with an exposed bank on the lower, south end. The area is 0.35 miles north of State Aid Highway No. 3 and 0.13 mile east of the junction of State Aid Highways No. 1 and 3. Slope is 35' long and 13' high. The top 4' or 5' of the bank has dirty pebbly sands. From 5'-8' is a fine gravel or gravelly sand; but there are not many stones. Most of the stones are tabular, (phyllitic or schistose). From 8'-11' was dirty sand and stones; 11' 12', gravelly sand. The bottom of the test section is about 5'-6' above the woods road. Overall, the material does not look too good.
20	1	1969	1-8	0-1	Yes	90.7	87.9	78.2	6.3	1.0	1½	----	Gr. Borr. (Grav.)	Owner: Mrs. Harriette Hakey Property was up for sale as of 9/24/69. Area is a small pit northwest of cabin and house, 0.16 mile north of State Aid Highway No. 3, and 0.19 mile west of the junction of State Aid Highway No. 3 and U. S. Route No. 5. Pit is southeast from Map Identification

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 23

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				
	2A	1969	1-8	0-1	Yes	97.9	90.6	75.0	5.3	1.2 0.9*	1½	-----	Sand	No. 18. The pit is in the northeast corner of a field which is the probable south and southwest extension, however, the owner did not allow the field to be sampled. Test #1 was dug by hand on southeast face. Log of Test: 0'-1', ov.; 1'-4', fine gravel; 4'-8', sand and pebbly sand. Test bottoms in slough. Test #2A was sampled on the northeast face by hand and backhoe. Log of Test: 0'-1', ov.; 1'-2', tan sand; 2'-6', fine gravel; 6'-8', gravelly sand. Face was 11' high, Test #2A was from 1'-8'; Test #2B was the lower 3' of face and into the floor. Log of Test: 8'-11', pebbly sand and sand lenses; 11'-22', lenses of fine gravel in sand. Test bottoms in sand.
	2B	1969	8-22	---	Yes	100	96.7	85.4	8.0	3.0 2.6*	1	----	Sand	
21	1A	1969	1-12	0-1	Yes	91.1	83.4	73.9	8.1	2.0 1.5*	1	----	Gr. Borr. (Sand)	Owner: Henry N. Evans Land is former John Walker property. Area is large pit complex east of Evan's house and east across U. S. Route No. 5 from State Aid Highway

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
	1B	1969	12-25	----	Yes	65.7	58.9	49.4	9.0	1.6	1	21.4%	Gravel	<p>No. 1. The faces average from 15'-35' high. This area is bounded on the south and southwest by John E. Walker's land, Map Identification No. 22.</p> <p>Test #1A was a hand sample on west face of pit. Log of Test: 0'-1', ov.; 1'-12', pebbly sand.</p> <p>Test #1B was dug by backhoe below Test #1A. Log of Test: 12'-18', gravel; 18'-22', coarse, pebbly sand; 22'-24', sand; 24'-25', fine sand.</p>
	2A	1969	1-19	0-1	Yes	100	95.1	85.6	5.1	1.0 0.9*	1	----	Sand	<p>Test #2A was dug by hand on high spur at north end of pit. Log of Test: 0'-1', ov.; 1'-17' coarse pebbly sand with a 6-inch seam of stones; 17'-19', sand-not as coarse as above. Test bottoms in slough at 19',</p>
	2B	1969	19-32	----	Yes	100	98.5	93.2	7.8	0.2 0.2*	1	----	Sand	<p>Test #2B was sampled by backhoe below Test #2A. Log of Test: 19'-23', gravelly sand; 23'-24', silt seam; 24'-30', sand; 30'-32', silt and clay seams. Test bottoms in same.</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 25

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	1969	1-13	0-1	Yes	100	89.3	74.8	3.0	0.5 0.4*	1	----	Sand	Test #3A was dug by hand on north face, 170' east of Test #2A. Log of Test: 0'-1', ov.; 1'-6', coarse sand with pebbles; 6'-7.5', fine sand; 7.5'-12', pebbly sand with a few cobbles; 12'-13', coarse sand.
	3B	1969	13-20	----	Yes	100	91.4	83.7	17.6	4.7 3.9*	1	----	Sand	Test #3B sampled by backhoe below Test #3A. Log of Test: 13'-15', pebbly sand with thin silt seams; 17'-20', sand and silt layers. Beds dip N. 15° E. into face.
	4A	1969	1-9	0-1	Yes	100	96.4	85.2	4.3	0.5 0.4*	1	----	Sand	Test #4A was a hand sample on north face, 320' S. 60° E. of Test #3A. Log of Test: 3' of strippings then: 0'-1', ov.; 1'-9', sand with some pebbles.
	4B	1969	9-18	----	Yes	100	93.8	80.9	11.2	2.1 1.7*	1	----	Sand	Test #4B was dug by backhoe below Test #4A. Log of Test: 9'-10', pebbly layer; 10'-12', sand; 12'-15', gravelly sand; 15'-18', pebbly sand; Test bottoms at 18' in fine sand.
	5A	1969	1-13	0-1	Yes	88.2	83.5	76.0	6.1	2.5 1.9*	1	----	Gr. Borr. (Grav.)	Test #5A was a hand sample of southeast face of pit, 420' S. 20° E. of Test #4A.

\*Percentage of Total Sample

TABLE I

DUMMERSTON 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								
						1½"	5/8"	#4	#100	#270				
	5B	1969	13-22	----	Yes	100	92.9	83.9	9.2	1.5 1.3*	1	----	Sand	Log of Test: 0'-1', ov.; 1'-4', sand; 4'-13', coarse sand and pebbly sand. Test #5B was dug by hand below Test #5A.
	5C	1969	22-32	----	Yes	100	95.2	87.4	6.7	0.4 0.3*	1	----	Sand	Log of Test: 13'-17', fine gravel; 17'-22', pebbly sand. Test #5C was a backhoe sample below Test #5B.
	6	1969	0.5-5.5	0-0.5	Yes	100	99.2	89.6	24.6	5.4 4.8*	1	----	Gr. Borr. (Sand)	Log of Test: 22'-32', pebbly sand. Test bottoms on coarse sand below which was much sloughed material. Test #6 was dug in floor, 50' east of Test #1A.
	7	1969	1-6.5	0-1	Yes	100	97.6	93.2	31.1	5.5 5.1*	1	----	Gr. Borr. (Sand)	Log of Test: #6: 0'-0.5', ov.; 0.5'-5.5', sand and pebble layers. Test bottoms at 5.5' in layers of silty sand and moist clay, water occurred at 7'. Test #7 dug in floor, 70' southeast of Test #2B.
	8	1969	0.5-6.5	0-0.5	Yes	100	89.1	81.8	14.2	3.5 2.9*	1	----	Sand	Log of Test: 0'-1', ov.; 1'-4.5', sand and pebbly sand; 4.5'-6.5', silt. Water at 4.5', clay at 6.5'. Test #8 was dug in floor, 100' southeast of Test #4B.

\*Percentage of Total Sample

Log of Test: 0'-0.5', ov.; 0.5'-5.5', sand

TABLE I

## DUIRERSTON 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
						1½"	5/8"	#4	#100	#270				
	9	1969	0.5-6.0	0.5-6.0	0-0.5	100	99.6	97.9	42.8	9.6 9.4*	1	-----	Gr. Borr. (Sand)	with pebbles; 5.5'-6.5', fine sand or silt. Water enters at 5.5' from northeast part of hole. Test bottoms in silt. Test #9 was dug in floor, 220' N. 45° W. of Test #5C. Log of Test: 0'-0.5', ov.; 0.5'-6', silty sand with some clay seams. Water into hole at 4'. Test bottoms in silt-clay at 6'.
	10	1969	1.5-11.5	0-1.5	Yes	100	100	96.5	31.4	3.3 3.2*	1	----	Gr. Borr. (Sand)	Test #10 was dug 10; east of a woods road and in a clearing 375' N. 70° E. of Test #9. Log of Test: 0'-1.5', ov.; 1.5'-4', sand; 4'-5.5', fine sand; 5.5'-6.5' pebbly layer; 5.5'-11.5', sand.
22	1	1969	1-19	0-1	Yes	85.2	74.0	60.9	5.0	1.0	1	----	Gr. Borr. (Grav.)	Owner: John E. Walker Area is the pit just south of Evans' pit, Map Identification No. 21, and 0.30 mile east of U. S. Route No. 5 at a point just opppsite State Aid Highway No. 1. The pit has a target shooting area for the police. The material on the east face dips to the east. The material appears to get coarser to the west. Test #1 was sampled by hand down the south side of spur in northwest part of pit. Log of Test:

\*Percentage of Total Sample

TABLE I

## DUNTERSTON GRANULAR DATA SHEETS 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
						1½"	5/8"	#4	#100	#270				
	2A	1969	1-19	0-1	Yes	81.7	67.4	57.6	5.8	2.0 1.2*	1	----	Gr. Borr. (Sand)	0'-1', ov.; 1'-19', silty sand, cobbles, and pebbly sand. Test bottoms in slough. Test #2A was dug by hand on south face. Log of Test: 0'-1', ov.; 1'-19', interbedded fine gravel and pebbly sand.
	2B	1969	19-36	----	Yes	100	94.6	86.9	13.2	1.7 1.5*	1	----	Sand	Test #2B was dug by backhoe below Test #2A. Log of Test: 19'-34', pebbly sand; 34'-36', fine sand.
	3A	1969	1-11	----	Yes	100	98.5	90.2	9.0	2.0 1.8*	1	----	Sand	Test #3A was hand sampled down spur at southeast part of pit. Log of Test: 0'-1', ov.; 1'-2', pebbly sand; 2'-3', silty sand; 3'-4', pebbly sand; 4'-5', silty sand; 5'-6', pebbly sand; 6'-11', sand and pebbly sand.
	3B	1969	11-29	----	Yes	100	96.1	82.1	11.9	1.9 1.6*	1	----	Sand	Test #3B was sampled by backhoe below Test #3A. Log of Test: 11'-26', pebbly sand; 26'-28', fine sand and pebbles; 28'-29' silt to clay. Test bottoms in silt to clay.
	4	1969	0.5-11	0-0.5	Yes	100	95.6	92.5	26.0	3.1 2.9*	1	----	Gr. Borr. (Sand)	Test #4 was dug in floor, 125' N. 20° W. of Test #3B, and 65' from the east face of pit. Log of Test:

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEETS NO. 29

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				
	5A	1969	1-10	0-1	Yes	100	100	84.7	13.1	1.6 1.4*	1	----	Sand	0'-0.5', ov.; 0.5'-11.5', sand, with a few stones and pebbles. A trickle of water encountered at 11'. Test bottoms at 11' in silt. Test #5A was dug on face of upper level of pit, northwest of pistol range, 180' from west west end of the upper floor level. Log of Test: 0'-1', ov.; 1'-6', pebbly sand with stones; 6'-10', fine sand that bottoms in silty sand.
	5B	1969	10-17	----	Yes	100	100	100	57.0	18.4 18.4*	1	-----	----	Test #5B: 10'-17', inter-bedded fine sand, silt and clay seams. Test bottoms in clay.
	6	1969	13.0-27	0-1	Yes	100	95.7	90.1	18.9	2.8 2.5*	1	-----	Gr. Borr. (Sand)	Test #6 was dug on north-west face, and below Test #1. Log of Test: 0'-1', ov.; 13'-27', pebbly sand over fine sand over silt to clay. This test corresponds to a slight offset of where Test #1B would have been if it were accessible to a backhoe. There is some expansion of the pit to the east, south, and west. The material is mostly sand and is limited to the top 30 feet or so. The owner feels he was taken for a ride the last time he sold material so

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
														it is not known how he feels about further sale of his material.
23	1	1969	1-12.5	0-1	No	100	100	99.0	34.6	9.6 9.5	1	----	Gr. Borr. (Sand)	Owner: Albert Moore Area is a partly cleared wood lot north of Town Highway No. 43, and north of large corn field, Map Identification No. 24, and west of I-91. Test #1 was dug 50' east of gully in the southwest corner of the area, and east of woods road and just north of stacked logs. Log of Test: 0'-1'; 1'-12.5', fine sand with silty sand in places.
	2	1969	1-12	0-1	No	100	100	99.0	30.7	11.5	1	-----	-----	Test #2 was dug 200' N. 45° E. of Test #1, and 175' S. 75° W of I-91 right-of-way fence, south bound. Log of Test: 0'-1', ov.; 1'-12;; fine sand with some silt. No bedding was noticed.
24	1	1969	1-13	0-1	No	100	100	99.1	43.5	15.1 15.0*	1	----	----	Owner: Albert Moore Area is a large cornfield north of Town Highway No. 43 and west of I-91, southbound. The flat to rolling cornfield is mapped as fluvial sands. There are relatively high flats

\*Percentage of Total Sample

TABLE I

## DULMERSTON 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				
	2	1969	1-12.5	0-1	No	100	100	100	29.7	4.7 4.7*	1	----	Gr. Borr. (Sand)	<p>and rolls, and depressions which trend north northwest-south southeast to northeast-southwest.</p> <p>Test #1 was dug on large flat area, 220' north northwest of owner's farm shed.</p> <p>The top 3' or 4' is very fine sand to silty sand. Below this is tan to gray, fine to medium sand with an occasional pebble.</p> <p>Test #2 was dug 375' north-northwest of Test #1, on north east-southwest trending broad low koll. Bedrock is exposed on roadside about 210' southwest of test. Material in test is very thinly laminated fine sand underlying very fine sand in the top 3.5' or 4'.</p>
	3	1969	1-13	0-1	No	100	100	100	24.2	2.2 2.2*	1	----	Gr. Borr. (Sand)	<p>Test #3 was dug 440' N. 20° W. of Test #2, on line with equipment shed. Material is like Test #1, and is fairly uniform.</p>
	4	1969	1-13	0-1	No	100	100	99.0	17.2	2.0 2.0*	1	----	Sand	<p>Test #4 was dug 420; N. 10° E. of Test #3, 130' east of edge of woods. Fairly uniform fine or medium sand in thin laminations. Top 1'-3' is fine to silty sand.</p>

\*Percentage of Total Sample

TABLE I

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	1969	2-12	0-2	No	100	97.4	93.0	33.3	19.4 18.0*	1	-----	-----	Test #5 was dug 700' N. 30° E. of Test #4, 100' from a woods corner and about 330' due west of I-91 fence. Top 2' is silty with roots, from 2'-5' is very fine or silty sand. From 5'-12' is fine sand with pebbles, bottoming in same.
	6A	1969	1-4.5	0-1	No	93.9	73.3	54.2	3.0	1.1	1	19.7%	Gravel	Test #6A was dug 800' S. 350' E. of Test #5, 50' west of I-91 fence. From 1'-4.5' is fine gravel.
	6B	1969	4.5-10	----	No	100	92.7	84.4	3.4	1.7 1.4*	1	----	Sand	Test #6B is medium or coarse gray sand with a few pebbles from 4.5'-10'.
	7A	1969	1.5-5	0-1.5	No	100	100	96.2	56.0	37.9 37.9*	1	----	----	Test #7A was dug 900' S. 20° W. of Test #6, 210' north of trench silo. It is in a north-south trending swale, 5'-7' below elevation of Tests #1 and #6. Log of Test: 0'-1.5', ov.; 1.5'-5', heavy, dark brown silt.
	7B	1969	5-11.5	-----	No	100	100	98.2	1.0	0.3	1	----	Sand	Log of Test #7B: 5'-11.5', tan to gray medium to coarse quartzose sand with occasional small pebbles. Conclusions: Sags have deep silt overburden; east side of field has a thin cap of gravel; the high parts of the field contain generally good,

\*Percentage of Total Sample

TABLE I

## DULMERSTON GRANULAR DATA SHEET NO. 33

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 Passes		Remarks
						1½"	5/8"	#4	#100	#270		AASHO T-4-35	VHD Spec.	
25	1	1969	1.5-11	0-1.5	Yes	97.2	76.9	50.5	3.0	1.0	1½	21.7%	Gravel	<p>uniform sand.</p> <p>Owner: Charles E. Simeon</p> <p>Area is a small pit on the northwest slope of a wooded granular ridge which trends S. 10° E. and which is mapped as kame moraine. The pit is reached from an access road which is 0.17 mile east of U. S. Route No. 5. Pit is 0.13 mile south of Town Highway No. 43. The northern part of the cleared area near the pit is 70' south of a garage or workshop belonging to Simeon. This feature extends south beyond property line. Simeon's pit is active, so it is not known how much, if any material would be available at a future time.</p> <p>Test #1 was a handsample of the southeast face of pit.</p> <p>Log of Test:  0'-1.5', ov.; 1.5'-5', gravel;  5'-6', sand; 6'-8', fine gravel;  8'-9', sand; 9'-11', gravel.  Quite a few phyllitic or slaty stones were noted. 11'-18', slough.</p>

\*Percentage of Total Sample

TABLE I

DUMMERSTON GRANULAR DATA SHEET NO. 34

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	1969	5-26	0-1.5	Yes	71.8	51.4	33.2	13.0	7.0	1	20.9%	Gr. Borr. (Grav.)	<p>Test #2 was sampled by hand and backhoe on face, 15' north of Test #1.</p> <p>Log of Test: 0'-1.5', ov.; 1.5'-5', too steep to sample; 5'-26', slatey gravel with gray silty coating. This gravel is well-packed but not cemented.</p>
	3	1969	0.5-11.5	0-0.5	Yes	89.9	73.0	38.4	6.0	2.7	1	21.2%	Gravel	<p>Test #3 was dug in floor, 10' west of Test #1.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-11.5', fine gravel. Test bottoms on very fine gravel.</p>
	4	1969	1.5-11	0-1.5	Yes	82.3	72.0	58.3	6.0	1.8	1	24.3%	Gravel	<p>Test #4 was dug in cleared area on east slope of ridge, 125' S. 50° E. of the center of the pit face, and about 20' below top of face. Access is from north northeast, in vicinity of house. The top 1.5' is roots, reddish silt, and stones. From 1.5'-3.5' is a somewhat dirty-looking gravel with sub-angular to tabular stones and tan-gray fines. Silt-clay coating is absent. A few cobbles and one or two small boulders. From 3.5'-8.5' is a stony sand. The top of ridge is still wooded. Most of the ston-</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
														es from all of the tests are slaty or tabular.
26	1	1969	7-15	----	Yes	82.4	67.6	50.5	3.0	1.0	1	18.6%	Cravel	<p>Owner: Albert Moore Area is pit 0.1 mile south of Town Highway No. 43, 0.31 mile east of U. S. Route No. 5. Dummerston Road commissioner, Clifford Emery, was drawing material from pit as of 9/25/69. The face was worked between the time of hand sampling and backhoe testing.</p> <p>Test #1 was a handsample of south face.</p> <p>Log of Test: Stripped; 0'-7', too steep to sample; 7'-15', interbedded fine gravel, gravelly sand, and pebbly sand. Material is a slaty gravel.</p>
	2	1969	7-26	----	Yes	86.6	78.9	70.5	4.0	1.4 1.0*	1	-----	Gr. Borr. (Sand)	<p>Test #2 was sampled by hand and backhoe on south face of pit. Face had been worked after Test #1 was taken.</p> <p>Log of Test: Stripped; 0'-7', unable to reach; 7'-26', deltaic beds of pebbles, sand, cobbles, and silt seams dipping eastward.</p>
	3	1969	0.5-12	0-0.5	Yes	100	100	98.7	7.7	1.9 1.9*	1	-----	Sand	<p>Test #3 was dug in floor, 20' north of Test #2.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-12', sand</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
	5	1969	1-13	0-1	Yes	73.2	66.6	56.5	2.0	0.5	1	-----	Gr. Borr. (Gravel passes on grading)	and pebbly sand. Test bottoms in sand. Test #4 was dug in floor in north part of pit, between old water pipes. Log of Test: 0'-0.5', ov.; 0.5'-9', fine gravel. Test bottoms in sand at 9'. Test #5 was dug on west face of pit to determine what type of material extends west onto Simeon's land. Test was 100' from northeast end of pit, and 20' north of western water pipe. Log of Test: 0'-1', ov.; 1'-7', fine gravel and gravelly sand; 7'-13', gravelly sand. Beds dip east into pit floor. There was insufficient proper size stone for the percent of wear test.
	6	1969	0.5-10	0-0.5	Yes	76.8	64.3	50.7	3.0	1.5	1	20.4%	Gravel	Test #6 was dug 30' south of south face of pit. Log of Test: 0'-0.5', ov.; 0.5'-6', fine gravel; 6'-10', gravelly sand. There were some tabular stones noted.
27	1	1969	1-13	0-1	No	100	100	100	57.0	12.1 12.1*	1	-----	-----	Owner: Albert Moore Area is a moderate rolling cornfield east of I-91 and

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 37

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	1969	1-13.5	0-1	No	100	100	100	87.3	34.1 34.1*	1	----	----	north of Town Highway No. 43 extension and the power line. Test #1 was dug on high point of southwest corner of corn field, 60' north of the road and 100' east of the right-of-way fence. Log of Test: 0'-1', ov.; 1'-6', very fine tan sand; 6'-13', very fine, to fine gray sand. Test #2 was dug on top of low ridge, 6' below and 200' N. 75° E. of Test #1. Log of Test: 0'-1', ov.; 1'-13.5', silt. Test #3 was dug on the lower part of the field, 12' below and 130' S. 75° E. of Test #2. Log of Test: 1'-1', ov.; 1'-13', mixed very fine sand and silty sand.
	3	1969	1-13	0-1	No	100	100	100	75.9	17.3 17.3*	1	-----	----	
28	1	1969	2-16	---	Yes	67.7	56.4	40.6	2.0	0.5	2	22.6%	Gravel	Owner: O'Bryan Construction Company Area is a stripped ridge which trends about N. 15° E. and is the southern extension of the granular ridge in Map Identification No. 25. Only one sample was taken because pit was being exploited by the owner. The pit faces were nearly vertical. The gravel has

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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
						1½"	5/8"	#4	#100	#270				
29	1	1969	1.5-10.5	0-1.5	No	77.0	47.3	18.8	11.0	4.9	1	19.1%	Gravel	<p>quite a few slaty stones in it. Log of Test: stripped; 0'-2', too steep to reach; 2'-16', interbedded slaty, silty gravel, pebbly sand and sand. Some gray, silt-clay coating was noted on some of the gravel. From 16'-30' was sloughed material</p> <p>Owner: Albert Moore</p> <p>Area is the hilly pasture which may be the possible extension to the south and southeast of Map Identification No. 26. Access was through the pasture from the field gate south of the house on Town Highway No. 43. The pasture slopes from north to northeast. The area is mapped as part of kame moraine.</p> <p>Test #1 was dug 12'-14' below upper side of pasture, 65' from fence, 185' from south corner. Material from 1.5'-7' is a cobbly, tabular, very stony gravel, with a few small boulders and much silt-clay coating. Below 7' is somewhat finer material. Test bottoms in fine gravel. The bedding is vague and appears to have a shallow east north-</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 39

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				
	2	1969	3.5-0	0-1.5	No	100	100	100	76.7	70.7 70.7*	1	-----	----	east dip. Test #2 was dug 310' S. 55° E. of pit in Map Identification No. 26, 40' below and 240' N. 50° W. of Test #1. Log of Test: 0'-1', ov.; 1'-3.5' fine gravel; 3.5'-9', silt of silt-clay.
	3	1969	1-11.5	0-1	No	75.0	48.6	30.3	9.0	2.4	1	22.0%	Gravel	Test #3 was dug on hill, 12' above and 275' S. 45° E. of Test #2. Log of Test: 0'-1', ov.; 1'-4.5', fine gravel; 4.5'-7', stony sand; 7'-11.5', fine gravel, with some cobbles. The stones near the surface are rather tabular. The lower gravel is better sorted and has rounder stones. The weathered stones are very soft.
	4	1969	1-6.5	0-1	No	100	100	100	84.2	72.4	1	-----	-----	Test #4 was dug 30' below and 280' N. 45° E. of Test #3. Log of Test #4: 0'-1', ov.; 1'-6.5', silt to clay.
30	1	1969	4-12	0-4	No	61.9	46.1	30.9	16.0	5.8	1½	17.8%	Gr. Borr. (Grav.)	Owner: Albert Moore Area is a rolling cornfield mapped as a kame moraine, above and southwest of Map Identification No. 26. Access is from Town Highway No. 43 from north-

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 40

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				
														east up past the pit in Map Identification No. 26. Test #1 was dug in south-east corner of field. The top 4' is silt. Log of Test: 0'-4', ov.; 4'-7', cobbly coarse gravel; 7'-10' fine gravel; 10'-12', cobbly coarse gravel. Overall, material is sandy somewhat tabular, very cobbly with a few boulders. Very cobbly and bouldery in bottom. Maybe close to bedrock.
	2	1969	1-11	0-1	No	75.7	57.0	34.6	6.0	3.1	2½	19.8%	Gravel	Test #2 was dig on ridge near northeast corner of cornfield. Log of Test: 0'-1', ov.; 1'-11', a fine tabular gravel with some 6" cobbles in it. The beds seem to dip slightly and indistinctly to the northeast.
	3	1969	1-11	0-1	No	77.2	56.8	49.0	4.0	2.7	1	20.3%	Gravel	Test #3 was dug near woods road in north northwest part of cornfield. Log of Test: 0'-1', ov.; 1'-3.5', pebbly sand; 3.5'-7.0', gravel; 7.0'-9', gravelly sand; 9'-11', cobbly gravel
	4	1969	1-10.5	0-1	No	74.5	66.0	51.4	3.0	1.0	1	20.1%	Gravel	Test #4 was dug on east

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 41

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				
	5	1969	1-10.5	0-11	No	83.5	65.7	45.6	2.0	1.0	1½	20.8%	Gravel	<p>northeast west southwest-trending broad roll or low ridge, 4'-6' lower than Tests #2 and #3, in middle of south end of field, 175' S. 20° E. of Test #3.</p> <p>Log of Test: 0'-1', ov.; 1'-3.5', gravelly sand; 3.5'-10.5', gravel with some cobbles. Test bottoms in gravel. Beds contained fine, and cobbly gravel which is not very tabular.</p> <p>Test #5 was dug on trend of broad roll near south-west end of cornfield and 270' S. 75° W. of Test #4.</p> <p>Log of Test: 0'-1', ov.; 1'-10.5', fine gravel with an occasional cobble.</p> <p>Overall, pretty good looking material - mostly fine to cobbly gravel.</p>
31	1A	1969	1-19	0-1	Yes	80.3	63.6	42.1	4.0	2.0	2	17.7%	Gravel	<p>Owner: Mr. and Mrs. E. Joe Adams (former Drury Pit).</p> <p>Pit is 0.12 mile east of U. S. Route No. 5, and 0.12 mile north of Town Highway No. 33.</p> <p>Pit is mapped as occurring in kame moraine. Material is</p>

\*Percentage of Total Sample

TABLE I

DUMMERSTON GRANULAR DATA SHEET NO. 42

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	1969	19-30	----	Yes	66.8	48.1	31.4	8.0	4.0	1	25.4%	Gr. Borr. (Grav.)	being drawn from the pit. Test #1A was a handsample of the steep south face. Log of Test: 0'-1', ov.; 1'-3', fine gravel; 3'-5', gravelly sand; 5'-18', gravel with some slaty stones; 18'-19', pebbly sand. Test #1B was hand sampled below Test #1A. Log of Test: 19'-20', pebbly sand; 20'-26', cobbly, somewhat slaty gravel; 26'-30', fine gravel; bottoms in cobbly gravel.
	1C	1969	30-46	----	Yes	74.7	61.4	36.2	6.0	2.4	1	23.8%	Gravel	Test #1C was sampled by hand shovel and backhoe below Test #1B. Log of Test: 30'-38', cobbly gravel with a gray, silt-clay coating; 38'-46', fine, pebbly gravel with silt-clay coating. The east face of pit has 5'-8' of silt and sand over the gravel. Test #2A was dug in floor, 50' south of ramp in north end of pit. Log of Test: #2A 0'-0.5', ov.; 0.5'-9', gravel. Log of Test: #2B: 9'-12'; sand; 12'-13', moist gravelly sand. Test bottoms
	2A	1969	0.5-9	0-0.5	Yes	90.2	72.6	46.8	4.0	1.5	1	22.4%	Gravel	
	2B	1969	9-13	----	Yes	100	97.4	80.1	1.6	0.8 0.6*	1½	----	Sand	

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 43

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				
	3	1969	0.5-12	0-0.5	Yes	100	85.4 2	74.9	4.2	2.3 1.7*	1	---	Sand	<p>in blue, stony silt-clay.</p> <p>Test #3 was dug in floor, 95' north of pit road and just west of ramp road.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-6.5', pebbly sand and fine gravel layers; 6.5'-12', fine sand and coarse sand layers. Test bottoms at 12' in fine sand. The top 6' has some silt-clay coating. The beds dip north. There is possibly some extension to south pastfield road, and to east in woods but owner did not allow sampling.</p>
32	1	1969	1-8	0-1	No	100	100	100	87.6	54.6 54.6*	1	-----	----	<p>Owner: Albert Moore</p> <p>Araa is a rolling cornfield south of Town Highway No. 43 extension east of I-91, and southeast of underpass.</p> <p>Test #1 was dug in high point of field, 284' southwest of the road, 85' from the west fence, and 95' from the south fence..</p> <p>Log of Test: 0'-1', ov.; 1'-8', very fine sand or silt; 8', encountered large boulder at east half of hole. Overall, material does not look good.</p>

\*Percentage of Total Sample

TABLE I

## DULLESTON GRANULAR DATA SHEET NO. 44

Lap 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				
33	1	1969	1-13	0-1	No	100	100	100	82.0	23.6 23.6*	1	----	----	Owner: Albert Moore Area is a small cornfield in the southeast corner of property east of I-91, south of Town Highway No. 43 extension, and east of Map Identification No. 32. Test #1 was dug on west side near northwest corner of field. Material was tan-brown very fine sand and silty sand, and like the material in Map Identification No. 27, Test #3.
	2	1969	1-13	0-1	No	100	100	100	87.0	23.1 23.1*	1	----	----	Test #2 was dug on the southeast side of cornfield, 300' S. 20° E. of and 6' below elevation of Test #1. Material looks similar to #1 but perhaps a little finer. Neither test shows bedding.
34	1	1969	1.5-6	0-1.5	No	88.4	79.3	60.6	3.0	1.4	1½	20.9%	Gr. Borr. (Grav.)	Owner: Joe Adams Area is a flat-to-rolling 3½ acre field west of I-91. The access is through field and woods from west, near owner's house and past the south part of pit in Map Identification No. 31. The southwest corner of the field is 0.25 mile east of U. S. Route No. 5. There is bedrock outcropping in the woods west of the field, and east of the

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 45

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				
	2	1969	1-11	0-1	No	92.6	86.1	73.5	2.2	1.0 0.7*	2	-----	Gr. Borr. (Sand)	above mentioned pit. Test #1 was dug 305' east of southwest corner of field. The top 1.5'-6' is a very fine gravel with 1 or 2 small cobbles. Test bottoms at 6' in silt. Test #2 was dug near center of field, 115' N. 16° E. of Test #1. Log of Test: 0'-1', ov.; 1'-6', pebbly, fine gravel with an occasional cobble; 6'-11', pebbly sand.
	3	1969	1.5-10.5	0-1.5	No	88.8	81.8	56.8	3.0	1.4	1½	19.9%	Gravel	Test #3 was dug near the northeast corner of the field, 5; below and 220' N. 65° E. of Test #2. Log of Test: 0'-1.5', ov.; 1.5'-4.5', gravelly sand; 4.5'-8', fine gravel with cobbles; 8'-10.5', cobbly gravel.
	4	1969	1.5-12	0-1.5	No	100	100	93.7	20.8	4.5 4.2*	1	-----	Gr. Borr. (Sand)	Test #4 was dug in the northwest corner of field, 400' N. 76° W. of Test #3. Log of Test: 0'-1.5', ov.; 1.5'-3', tan fine sand; 3'-8', coarse sand with pebbles; 8'-12', fine sand.
35	1	1969	1-11	0-1	No	88.4	77.3	58.7	16.0	2.7	1½	-----	Gr. Borr. (Grav.)	Owner: Joseph E. Girroir Area is a nearly flat-to sloping-brush-grown clearing

\*Percentage of Total Sample

TABLE I

## DUNLISTERSTON GRANULAR DATA SHEET NO. 46

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"	#5	#100	#270				
														east of hen house behind owner's house. Access is via driveway east from U. S. Route No. 5 and just north of the junction of Town Highway No. 33 and U. S. Route No. 5. The beds dip about south southeast. The feature is mapped as a kame moraine. Test #1 was dug 135' S. 80° E. of large tree east of hen house, and 60' west of pit access road and 110' west of bedrock outcrop. Log of Test #1: 0'-1', ov.; 1'-5', fine gravel and gravelly sand; 5'-6', fine sand or silt; 6'-11', fine gravel. The stones are somewhat tabular.
	2	1969	1-10.5	0-1	No	94.3	85.6	63.5	3.0	1.1	1	20.4%	Gr. Corr. (Grav.)	Test #2 was dug at top of slope, 100' north of Test #1. Log of Test: 0'-1', ov.; 1'-3', gravel; 3'-10.5', gravelly sand. The beds dip gently eastward. About 50% of the stones are tabular.
	3	1969	1.5-10.5	0-1.5	No	74.1	58.8	37.0	7.0	3.1	1	20.3%	Gravel	Test #3 was dug in the flat area 21' below, and 100' north of Test #2. Log of Test: 0'-1.5', ov.; 1.5'-10.5',

\*Percentage of Total Sample

TABLE I

## DULLESTON 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
						1½"	5/8"	#4	#100	#270				
														cobbly gravel. Test bottoms in fine sand.
36	1A	1969	1-19	0-1	Yes	95.6	79.9	54.1	3.0	1.5	1½	21.7%	Gravel	<p>Owner: Charles E. Simeon</p> <p>Area is a pit east of I-91 and due south of underpass of Town Highway No. 43, and is on high ground to the southwest of Map Identification No. 32. The pit is about 200' x 200' x 200' and has faces about 70'-80' 80' high. Access is via underpass from Town Highway No. 43, and through Moore's land, Map Identification No. 32. Extension would be to the south. The material in the floor probably extends down to the base of the hill, which is about 50' below floor level.</p> <p>Test #1A was a hand sample of the west face.</p> <p>Log of Test: 0'-1', ob.; 1'-19', fine slaty gravel and pebbly coarse sand. Test bottoms in gravel.</p>
	1B	1969	19-38	-----	Yes	87.9	70.4	40.4	5.0	2.0	1	18.4%	Gravel	<p>Log of Test #1B: 19'-23', gravel; 23'-33', fine gravel; 33'-38', gravel; Test bottoms at 38' in sloughed material.</p>
	2A	1969	1-13	0-1	Yes	93.3	84.4	61.7	2.0	1.0	1	18.5%	Gravel	<p>Test #2A was a hand sample of the south face.</p> <p>Log of Test:</p>

\*Percentage of Total Sample

TABLE I

DULLESTON GRANULAR DATA SHEET NO. 48

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	Pasees VHD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	3	1969	1.5-12	0-1.5	Yes	83.4	78.0	58.5	3.0	0.7	1½	18.3%	Gravel	0'-1', ov.; 1'-13', fine, slaty gravel. Test bottoms in fine gravel and sand. Log of Test #2B: 13'-23', fine gravelly sand; 23'-25', pebbly coarse sand. Test #3 was dug in clearing of woods atop south face of pit, 200' S. 10° E. of top of face, and 55' north of woven-wire fence of B.&M. RR property. Log of Test: 0'-1.5', ov.; 1.5'-6.5', gravelly sand and very fine gravel; 6.5'-7.5', sand layer; 7.5'-12', very fine gravel with cobbly layer from 11'-11.5'.
	4	1969	1.5-12	0-1.5	Yes	81.5	70.1	50.1	3.0	1.3	1	-----	Gr. Borr. (Grav.)	Test #4 was dug in partly cleared area 35' south of top of south pit face. Log of Test: 0'-1.5', ov.; 1.5'-6', gravelly sand; 6'-12', fine gravel with some cobbles.
	5	1969	46-61	0-2	Yes	99.5	77.1	45.7	3.0	1.7	1	20.3%	Gravel	Test #5 was dug at bottom of slope, below and 30' east of Test #2. Face is 66' high. Sample was from 46'-61', fine slaty gravel and coarse sand. There is much sloughed material. Unable to sample the bottom 5' of face due to excessive caving.

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
	6	1969	0.5-11.5	0-0.5	Yes	82.1	58.7	34.6	13.0	2.7	1	18.7%	Gravel	Test #6 was dug in floor, 40' N. 10° W. of Test #5. The beds dip to the southeast. Log of Test: 0'-0.5', ov.; 0.5'-8.5', gravel; 8.5'-9.5', gravelly sand; 9.5'-11.5', gravel. The material in the floor is better and has rounder rocks.
	7	1969	42-50	0-2	Yes	74.2	54.5	30.8	7.0	3.2	1½	21.5%	Gravel	Test #7 was dug at base of 60'-high west face, 30' south-west of Test #1B. There was much sloughing due to tabular and slippery material. Log of Test: 42'-50', fine gravel. Test bottoms at 50' in cobbly gravel.
	8	1969	0.5-10	0-0.5	Yes	80.4	66.4	42.9	5.0	1.2	1	17.3%	Gravel	Test #8 was dug in floor, 125' north of Test #6. Beds dip east southeast. Log of Test: 0'-0.5', ov.; 0.5'-10', interbedded fine and cobbly gravels. Test bottoms in cobbly gravel. One or two small boulders in hole. In general, the floor gravels were harder and had rounder stones than the face gravels.
37	1A	1969	1.5-6.5	0-1.5	Yes	79.4	69.0	52.9	4.0	1.2	1	23.0%	Gravel	Owner: Boston and Maine RR. Area is old, heavily overgrown pit, east of I-91, and

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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				
	1F	1969	6.5-13	-----	Yes	100	95.9	88.5	4.0	1.3 1.2*	1	-----	Sand	<p>west of RR tracks and the Connecticut River. The area is a very high terrace with 170' of relief and is bounded on the northwest by Map Identification No. 36. Access is by the road the railroad crews use to check and repair the tracks; this road extends southeast and south of the east end of Town Highway No. 43. The pit is 135' west of the tracks. There is much sloughed material, but there is some slaty gravel and sand.</p> <p>Test #1 was dug in floor, 30' N. 45° W. of access road. Log of Test: 0'-1.5', ov.; 1.5'-3', gravelly sand; 3'-6.5', gravel. Test bottoms in sand.</p> <p>Log of Test #1E: 6.5'-13', brown, clean sand. Test bottoms in sand with pebbles.</p> <p>Poorly defined bedding seems to dip to the south or southwest. The gravel bed gets thicker in the southwest part of test hole.</p> <p>Owner: Joseph Edward Girroir Area is large pit 0.40 mile</p>
38	1	1969	10-60	0-1	Yes	86.0	53.8	24.5	9.0	3.0	1½	20.0%	Gravel	

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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 VMD Spec.	Remarks
						1½"	5/8"	#4	#100	#270				
	2	1969	3-13	0-3	Yes	91.1	77.6	48.6	3.0	1.0	2	21.1%	Gravel	<p>east of U. S. Route No. 5 via owner's driveway which is at junction of Town Highway No. 33 and U. S. Route No. 5.</p> <p>Test #1 was a hand sample on west face of lowest pit level.</p> <p>Log of Test: 0'-1', ov.; 1'-10', too steep to sample; 10'-16', well-packed, somewhat slaty gravel.</p> <p>Test #2 was a hand sample of the northwest face of the lowest pit level, 80' N. 20° E. of Test #1.</p> <p>Log of Test: 0'-3', ov.; 3'-13', sandy fine gravel. The reading for the fines should be questioned as quite a bit of silt was blowing away.</p>
	3	1969	0.5-11	0-0.5	Yes	79.5	63.9	39.8	2.0	1.1	1½	19.8%	Gravel	<p>Test #3 was dug near west side of 3rd level of pit, 15' above and about 150' northeast of Test #2. Test represents a floor area of 185' x 115'. Access to this level is around the northwest corner of pit. The material is a clean, good-looking fine gravel with some gravelly sand layers.</p> <p>Overall, only a few 3-to-5 inch stones. This pit level</p>

\*Percentage of Total Sample

TABLE I

## DULLERSTON GRANULAR DATA SHEET NO. 52

Lap 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 VFD Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
4	1969	1-11	0-1	Yes	85.0	77.2	56.7	4.0	1.6	1	19.7%	Gravel	used for stockpiling crushed stone, but this would not hinder working the gravels. The top 5' is coarser and more cobbly than the bottom 6'. Test #4 was dug in floor of 2nd level near its east end. Test represents a triangular area (h=165', B=125'). Material is pebbly or gravelly clean coarse sand with an occasional cobble. Possibly a little coarser and more stony below 6'.	
5	1969	1.5-12	0-1.5	Yes	100	95.9	84.9	2.5	1.2 1.0*	1 1/2	----	Sand	Test #5 was dug midway along north face of pit's upper level. Test represents north extension that is covered with brush for 30'-40' away from test. The face is 12' high. Test #5 is 90' north of Test #3. Log of Test: 0'-1.5', ov.; 1.5'-5', gravelly sand; 5'-8', medium sand; 8'-12', pebbly sand and coarse sand.	
6	1969	1-11.5	0-1	Yes	90.3	78.2	50.1	2.0	1.2	1	19.9%	Gravel	Test #6 was dug in 2nd level of pit on west side at a point 85' north of face on which tests #1A and #2A were sampled. Test represents material in a	

\*Percentate of Total Sample

TABLE I

DULLERSTON 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 VFD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	7	1969	0.5-11	0-1.5	Yes	85.2	60.5	40.9	4.0	1.5	1	20.7%	Gravel	<p>large triangular area. The west face above this floor looks sandy and would be limited in its west extension by haul road. Material in test is fine gravel with a few cobbly layers in the top 7'. Below this is a fine gravel. Material looks clean and somewhat tabular.</p> <p>Test #7 was dug in floor at north part of lowest level of pit.</p> <p>Log of Test: 0'-0.5', ov.; 0.5'-11', quite uniform fine gravel with an occasional cobble.</p>
	8	1969	2.5-11	0-2.5	Yes	100	95.9	82.7	1.8	0.9 0.7*	1	----	Sand	<p>Test #8 was dug in the floor at the south end of pit, 6' below Test #7, and 20' north of fence. Beds dip south or southwest.</p> <p>Log of Test: 0'-2.5', ov.; 2.5'-11', interbedded pebbly sands and medium sands. Material looks pretty clean.</p>
39	1A	1969	1-7.5	0-1	Yes	80.7	67.7	52.0	27.0	19.6	1	30.5%	----	<p>Owner: Ted Glaybach</p> <p>Area is a very small pit with low faces, west of power line and south of Town Highway No. 27. The pit is 0.21 mile west of the junction of Town</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON 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 VMD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	1B	1969	7.5-13	----	Yes	100	100	100	47.6	8.1 0.1*	18	Gr. Borr. (Sand)	<p>Highway No. 27 and U. S. Route No. 5. Possible extension of pit is to the south where there is knolly terrain which is mapped as lame moraine.</p> <p>Test #1A was dug 25' N. 65° W. of New England Power pole #433, in north part of pit floor.</p> <p>Log of Test: 0'-1', ov.; 1'-7.5', gravel and fine sand.</p> <p>Log of Test #1B: 7.5'-13', sand.</p> <p>Test #2 was dug in floor at south end of pit, 100' S. 10° W. of Test #1.</p> <p>Material is gray quartzose uniform fine sand.</p>	
	2	1969	1-10	0-1	Yes	100	100	99.2	16.2	1.0 1.0*	1	Sand	<p>Test #2 is 6' below Test #1. Average height of faces is from 5'-6'.</p>	
	3	1969	2-7.5	0-2	Yes	95.0	87.2	75.7	3.3	1.2 0.9*	1	Sand	<p>Test #3 was sampled by hand and backhoe on 7.5 foot south face.</p> <p>Log of Test: 0'-2', ov.; 2'-3', gravel; 3'-7.5', pebbly sand.</p> <p>Pit measures 130', north-south and 260', east-west.</p>	
40	1	1969	1-12	0-1	Yes	100	100	40.9	5.0	3.0	2	----	Gr. Borr.	<p>Owner: Ralph Carpenter</p> <p>Area is a mostly overgrown pit. 0.15 mile east of Town</p>

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 55

Lap 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				
														Highway No. 33, and 0.32 mile south of junction of Town Highway No. 33 and U. S. Route No. 5. Access is through the driveway north of the yellow house south of Carpenter's house and trailer. The material has a high concentration of slaty stones. It was noted that slaty bedrock outcrops within 1/4 mile to the north west.
	2	1969	3-15	0-3	Yes	93.5	77.5	54.6	6.0	2.0	1½	24.7	Gravel	Test #1 was dug by hand down spur in northwest part of pit. Log of Test: 0'-1', ov.; 1'-12', slaty rubble; 12'-22', slough. There are many piles of screened-out slate-rock. Test #2; was sampled by hand and backhoe on south face. Log of Test: 0'-3', ov.; 3'-8', dirty, slate gravel; 8'-11', fairly clean gravelly sand; 11'-15', somewhat dirty slate gravel.
	3	1969	0.5-7	0-0.5	Yes	79.8	56.6	35.8	8.0	2.0	1½	26.8%	Gr. Borr. (Grav.)	Test #3 was a hand and backhoe sample of the face and floor in north part of the lowest level. Log of Test:

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 56

Lap 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				
														0'-0.5', ov.; 0.5'-6.5', slate gravel; 6.5'-7', coarse sand; Test bottoms at 7' in water over clay. There may be some material in the cornfield south of pit but owner did not want that part of his property sampled.
41	1	1969	1-7	0-1	Yes	96.3	98.8	75.0	1.5	1.0 0.0*	1 1/2	----	Sand	Owner: Robert Allard Area is a small, undeveloped pit area, north or northeast of lap Identification No. 42. This area is west of Town Highway No. 35, and south and west of the railroad overpass over Town Highway No. 35. The pit has low faces which average 6' or so, and many bull-dozer scuffings. Test #1 was a hand sample of the west face of upper level level. Log of Test: 0'-1', ov.; 1'-7', pebbly sand.
	2	1969	0.5-12.5	0-0.5	Yes	100	100	100	70.8	31.5 31.5*	1	----	-----	Test #2 was dug in floor at east and lowest part of pit 50' north of access road. Log of Test: 0'-0.5', ov.; 0.5'-12.5', fine sand and silty sand. Beds dip south or southeast.

\*Percentage of Total Sample

TABLE I

## DUMLERSTON GRANULAR DATA SHEET NO. 57

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 VID Spec.	Remarks
						% Passing								
						1 1/2"	5/8"	#4	#100	#270				
	3	1969	1-6	0-1	Yes	100	100	100	88.7	70.4 70.4*	1	-----	-----	Test #3 was dug in floor of 2nd level, 70' S. 35° E. of Test #1 and 11' below the bottom of Test #1. Log of Test: 0'-1', ov.; 1'-6', silt to clay clay.
	4	1969	1-11	0-1	No	100	100	100	81.2	35.7 35.7*	1	-----	-----	Test #4 was dug in small clearing 15' west of access road, 130' south of south end of pit, and 11' above Test #2. Log of Test: 0'-1', ov.; 1'-11', fine silty sand. The material is about the same as that in Test #2. No bedding was apparent.
	5	1969	1-11	0-1	No	100	100	96.4	62.4	13.0 17.4*	1	-----	-----	Test #5 was dug in clearing near junction of woods road, 210' west of Town Highway No. 35, and 65' southeast of I-91 right-of-way fence. Log of Test: 0'-1', ov.; 1'-12', fine silty sand with a pebbly layer at 10.5'-11'. Even though Test #1 has an acceptable Sub-base of Sand, Item 202, the area is not highly recommended. There may be some granular material in the woods to the west and northwest but the backhoe was unable to get in to do any sampling.

\*Percentage of Total Sample

TABLE I

## DUMMERSTON GRANULAR DATA SHEET NO. 58

Lap 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				
42	1	1969	-----	----	Yes	100	89.2	48.3	9.0	4.0	1½	29.6%	Gravel	Owner: Robert Allard Area is pit which is just east of I-91, and which is split by the Fattleboro-Dummerston Town Line. Most of the pit lies in Erattleboro. The Dummerston portion is used for stock piling. Pit is on the west side of Town Highway No. 35. C.M. Struthers leases area from Allard, and is working tht pit daily. Test #1 was a handsample of the material stockpiled near entrance of pit.
	2	1969	0.5-13	0-0.5	Yes	80.3	67.9	34.5	6.0	3.2	1	16.1%	Gravel	Test #2 was dug in floor in lower level, near center of pit and just about on the town line. Log of Test: 0'-0.5', cv.; 0.5'-13', uniform gravel. Beds dip gently to the north northwest. Material looks pretty good.
	3	1969	0.5-12	0-0.5	Yes	85.5	71.5	43.0	4.0	0.0	1	17.6%	Gravel	Test #3 was dug in floor at lowest part of north end of pit. Log of Test: 0'-0.5', ov.; 0.5'-12', gravel. Material is quite uniform and not as coarse as in Test #2. The material was coarser on the east side of hole, where there

\*Percentage of Total Sample

TABLE I

DUNSTERSTON 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 AASHTO T-21	Abrasion AASHTO T-4-35	Passes VHD Spec.	Remarks
						1 1/2"	5/8"	#4	#100	#270				
	4	1969	0.5-11.5	C-C.5	Yes	82.6	67.4	42.3	5.0	1.7	1	15.0%	Gravel	<p>were a few cobbles, than on the west side of the hole.</p> <p>Test #4 was dug in floor, of upper level at south end of pit, in Brattleboro.</p> <p>Log of Test:  0'-0.5', ov.; 0.5'-11.5', fine gravel. The beds dip south or south southwest. The material is about the same as Test #3. It is not known how much material, if any, will be available from this source. The extension at the time of sampling, 10/2/69, was to the south.</p> <p>There is a wooded area, Map Identification No. 41, to the north of the pit, but the test results for it are not very promising.</p>

\*Percentage of Total Sample

TABLE I  
Supplement

DUMMERSTON PROPERTY OWNERS - Granular

Map Ident. No.

Adams, E. Joseph	31, 34
Allard, Robert	41, 42
Baldwin, Dr. David Boston & Maine RR	14, 15 37
Carpenter, Ralph	40
Elliott, Donald	4
Evans, Henry M.	21
Girroir, Joseph E.	35, 38
Glaybach, Ted	39
Gochenour, Theodore	7
Hakey, Mrs. Harriette	20
Maple Valley Ski Area, Inc.	2, 3, 5
Moore, Albert	23, 24, 26, 27, 29, 30, 32, 33
Nadeau, Gaston J.	17, 18
O'Bryan Construction Co.	28
Oravez, William	13
Patriquin, L. A.	1
Pullman, John S.	6
Ranney, George E.	16
Simeon, Charles	25, 36
Struthers, C. M.	8
Unknown	19
Walker, John E.	22
Wood, Arthur	9
Wood, Raymond	10, 11
Zuk, Walter J.	12

TABLE II

## DUMMERSTON ROCK DATA SHEET NO. 1

Area No.	Field Test No.	Year Field Tested	Rock Type	Exist-ing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
R-1	1 Lab Test # 58334	1956	Granite	Yes	Chipped from blocks	3.3%	Owner: C. L. Crepeau. Area is quarry and extension on west and southwest side of Black Mountain. Access is via Town Highway No. 40, east of West River, and 0.76 mile north of the junction of Town Highways No. 40 and No. 62. This area is listed as area #6 in old office records. The quarry is 150' east of the road where several old quarry sheds are located. The quarry face is about 150' above a small pond in the quarry floor. Granitic rock extends east and above the present quarry, and also north and south, but not to such an extent. There is plenty of good material available, but the quarry would have to be pumped out. Access is good but trucks and equipment should avoid the covered bridge and use the one-lane steel bridge on Town Highway No. 62. This source is just east across the West River Vermont Route No. 30. Major joint planes dip 35° west about parallel with the slope of the west side of Black Mountain.
	2	1957	Granite	Yes	Chipped from blocks	3.4%	Test #2 was sampled from random blocks at quarry location. The granitic rocks are mapped as occurring in the New Hampshire undifferentiated granitic rocks.
R-2	BDP-1	1958	Amphib-olite	Yes	Chip	3.7%	Owner: Ralph Carpenter Area is a quarry located east of Town Highway No. 33 and U. S. Route No. 5, and west of I-91. The quarry is a bit north of east of Mr. Carpenter's house. Access is via road through the woods south of the quarry. It may be possible for a right-of-way to be obtained from Joseph Girroir which would give an easier access to U. S. Route No. 5. Test #1 (lab. Test #66711) was sampled for 20' across the strike, 200' west of E stake sta. 735+00, Brattleboro-Dummerston-Putney I-91-1(9). Rock was in the Standing Pond amphibolite.
	BDP-2	1958	Amphib-olite Schist	Yes	Chip	4.9%	Test #2 (Lab Test #66712) was sampled for 18' across the strike, 308' west of E stake Sta. 735+00. Test #3 (Lab Test #66713) was sampled for 24' across the

TABLE II

## DULLERSTON ROCK DATA SHEET NO. 2

Ident. No.	Field Test No.	Year Field Tested	Rock Type	Existing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
							strike, 327' west of E stake Sta. 735+00.
	BDP-4	1958	Amphibolite	Yes	Chip	5.2%	Test #4 (Lab Test #66724) was sampled for 21' across the strike, 357' west of E stake Sta. 735+00.
	BDP-5	1958	Graphitic Biotite Schist	Yes	Chip	15.6%	Test #5 (Lab Test #66725) was sampled for 20' across the strike, 370' west of E stake Sta. 735+00. Material was rejected for Sub-base of Crushed Rock, Item 204, because of excessive wear.
	BDP-6	1958	Quartzitic Chloride Schist	Yes	Chip	4.2%	Test #6 (Lab Test #66726) was sampled for 28' across the strike, 386' west of Sta. 735+00.
	BDP-7	1958	Amphibolite	Yes	Chip	4.6%	Test #7 (Lab. Test #66732) was sampled for 26' across strike 427' west of Sta. 735+00.
	BDP-8	1958	Quartzose; Chlorite Hornblende Schist	Yes	Chip	4.8%	Test #8 (Lab. Test #66829) was sampled for 21' across strike.
	BDP-9	1958	Quartzose Chlorite Hornblende Schist	Yes	Chip	5.0%	Test #9 (Lab Test #66830) was sampled for 24' across strike.

TABLE II

## DUMMERSTON ROCK DATA SHEET NO. 3

Ident. No.	Field Test No.	Year Field Tested	Rock Type	Exist- ing Quarry	Method of Sampling	Abrasion AASHO T-3	Remarks
	BDP-10	1958	Quartzose Hornblende Chlorite Schist	Yes	Chip	3.8%	Test #10 (Lab Test #66031) was sampled for 31' across strike.
	BDP-11	1958	Hornblende Schist	Yes	Chip	5.2%	Test #11 (Lab Test #66761) was sampled for 29' across strike.
	BDP-12	1958	Quartzose Hornblende Schist	Yes	Chip	3.6%	Test #12 (Lab Test #66862) was sampled for 25' across strike.
	BDP-13	1958	Quartzose Hornblende Schist	Yes	Chip	4.2%	Test #13 (Lab Test #66869) was sampled for 30' across strike, to toe of slope.
							Overall, rock passes for Sub-base of Crushed Stone, Item 204. The quarry would be easy to re-open and access would not present a problem. Rock from this source was used in I-91 construction.

TABLE II  
Supplement

DULLERSTON PROPERTY OWNERS - ROCK

Lap Ident. No.

Carpenter, Ralph  
Crepeau, C. L.

R-2  
R-1