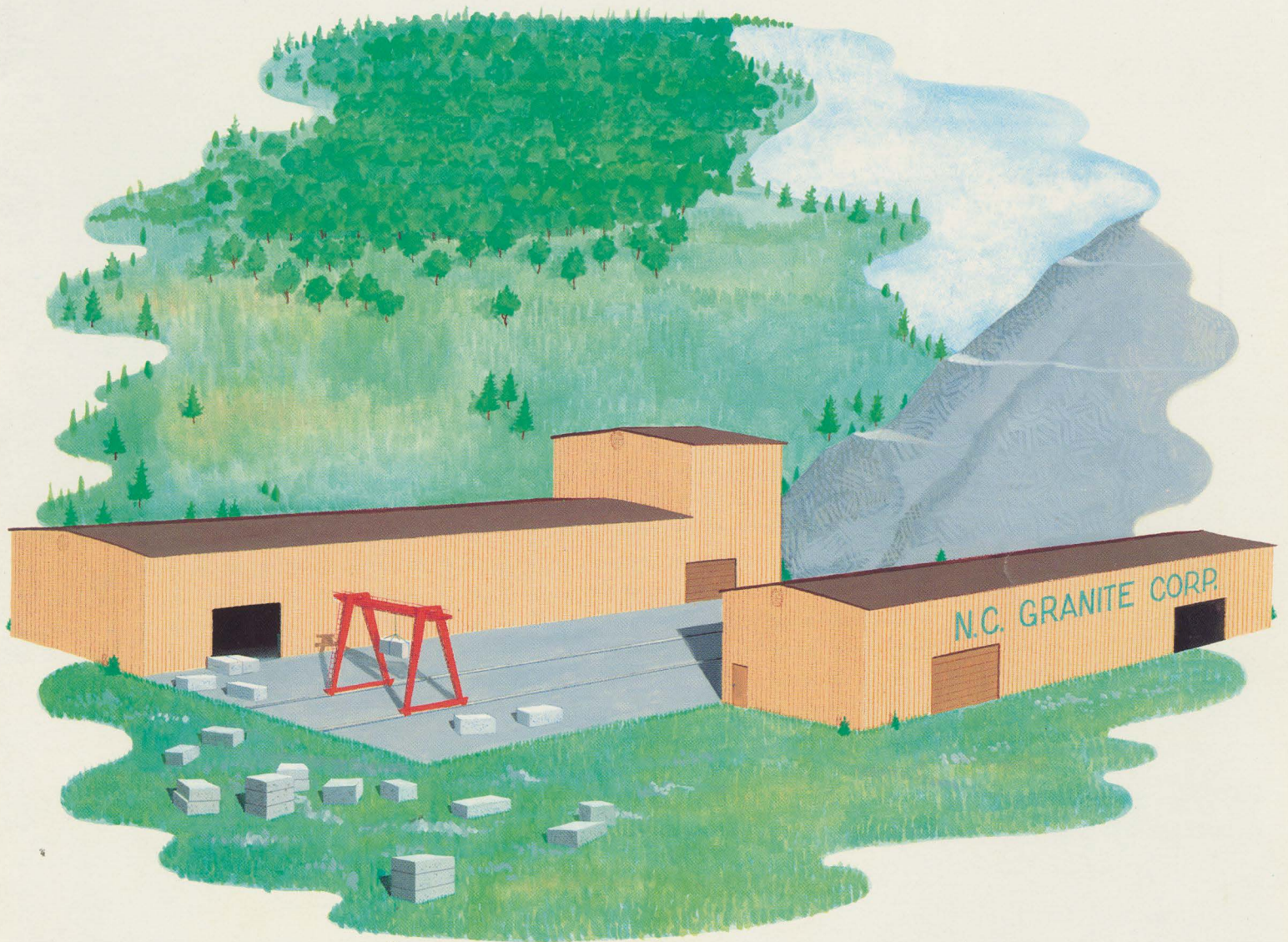
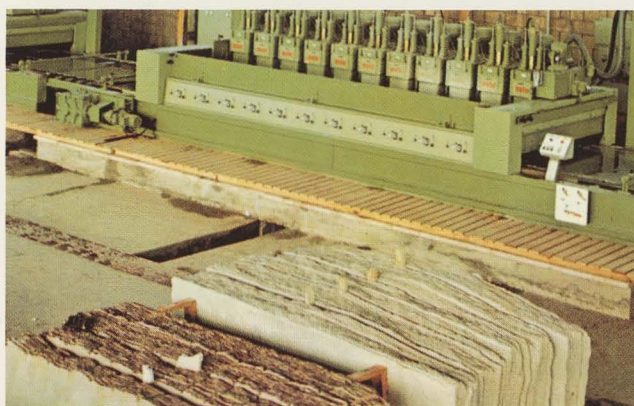
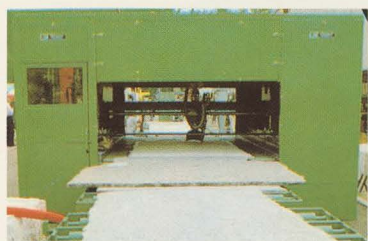
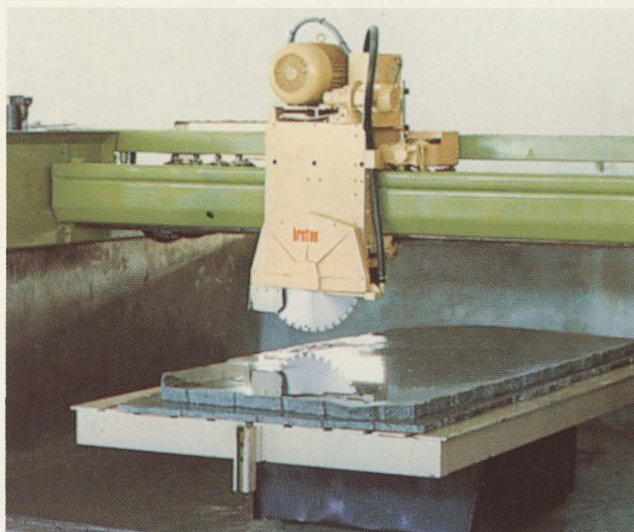
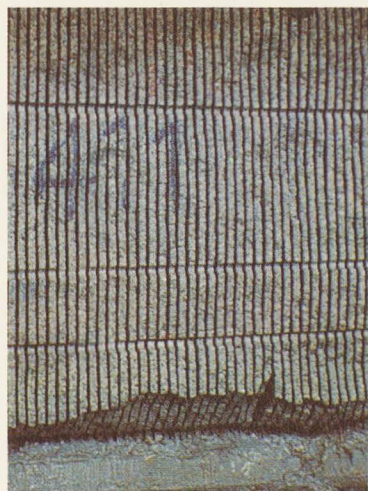


We're Growing . . .



GRANITE

THE NORTH CAROLINA GRANITE CORPORATION, MT. AIRY, N. C.



mount Airy GRANITE

WATCH FOR OUR NEW FABRICATING FACILITIES TO START OPERATIONS IN 1986. WE WILL ALSO BE OFFERING AN ARRAY OF NEW GRANITES (SEE INSIDE BACK COVER) IN ADDITION TO OUR MOUNT AIRY GRANITE. THESE NEW GRANITES WILL BE FABRICATED IN THE MOST MODERN, UP-TO-DATE GRANITE FABRICATING PLANT IN THE EASTERN UNITED STATES. THIS NEW FACILITY WILL ENABLE US TO FABRICATE PANELS DOWN TO 2 CM THICK IN LARGE QUANTITIES AT A FASTER RATE THAN EVER BEFORE.

OUR NEW PLANT WILL CONSIST OF THE NEWEST AND MOST MODERN EQUIPMENT AVAILABLE TO THE INDUSTRY. WE ARE INSTALLING MULTI BLADE GANG SAWS, AN AUTOMATIC POLISHING LINE, AUTOMATIC EDGE POLISHER, DIAMOND CUTOFF SAWS FOR JOINTING, SLOTTOR SAWS FOR ANCHOR SLOTS, BRIDGE DIAMOND SAWS, AND AN AUTOMATIC BURNING MACHINE.





MR/MANUFACTURER

Here at The North Carolina Granite Corporation granite is our lifeblood, we can't emphasize it enough! We hope the written and pictorial information compiled in the following pages can create within you a fraction of the enthusiasm we feel for this phenomenon of nature that has contributed so much to the building industry. We take this opportunity to thank you for your time in reading this brochure and invite you to visit us and see first hand this remarkable deposit of nature's premier building material.

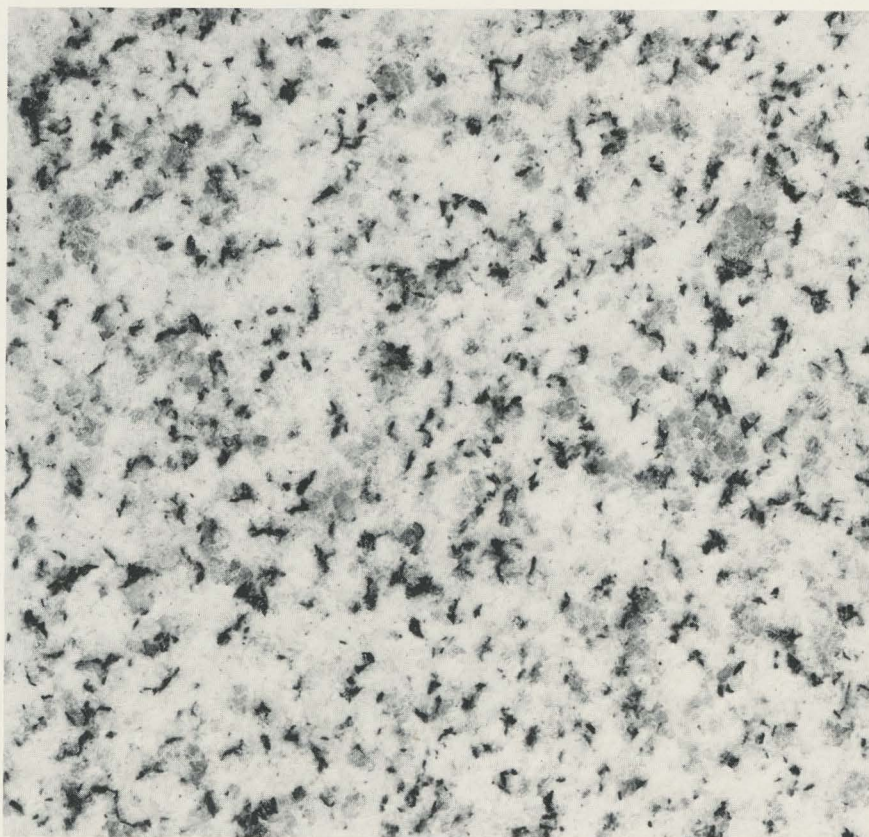
Our supply of Mount Airy Granite is virtually inexhaustible with a uniformity of texture and color that allowed us to match a project of 50 years ago so well that it is impossible to detect the old from the new. In addition to our Mount Airy Granite we can, upon request, furnish samples of a selection of colored granites which will satisfy the most demanding design concept.

Our design and drafting department and company representatives will be pleased to furnish you with technical

information, samples and details regarding the most economical and practical uses of granite for your individual designs. We welcome new

DT/DOCUMENT

ideas in the installation of granite, so if you have one let us help you in working it out.



BUILDINGS



The project cost is approximately \$1.3 million, including the interior furnishings, site work, and landscaping. The use of premium-quality building materials, such as granite, quarry tile, plaster walls, and a

flexible sheet-roofing membrane should provide the owner with a state of the art energy-efficient passive solar building for many years. The adding expense of the passive solar features is closely related to the architectural design but has a pay-back period of 12 to 14 years, depending on several variables.



MOUNT AIRY PUBLIC LIBRARY

Rockford Street
Mount Airy, North Carolina

OWNER:

City of Mount Airy

ARCHITECT:

J. N. Pease Assoc.
Charlotte, North Carolina

SOLAR ENERGY DESIGN CONSULTANTS

Edward Mazria & Assoc.
Albuquerque, New Mexico

GENERAL CONTRACTOR:

John S. Clark Co. Inc.
Mount Airy, North Carolina

FEATURES:

Building is passive solar structure with exterior thermal wall panels

BUILDINGS



OP/OVERALL PRODUCT IN PLACE

STATE OFFICE BUILDING

Raleigh, North Carolina

OWNER:

State of North Carolina

ARCHITECTS:

Ballard McKim & Sawyer
Wilmington, North Carolina

GENERAL CONTRACTOR:

Barnhill Contracting Co.
Tarboro, North Carolina

STONE SETTER:

Carolina Stone Setting Co.
Cary, North Carolina

FEATURES:

Thermal exterior panels



BUILDINGS



OP/OVERALL PRODUCT IN PLACE

MOUNT AIRY MUNICIPAL BUILDING

South Main Street
Mount Airy, North Carolina

OWNER:

City of Mount Airy

ARCHITECT:

J. Everett Fauber, Jr. F.A.I.A.
Lynchburg, Virginia

GENERAL CONTRACTOR:

John S. Clark, Company, Inc.
Mount Airy, North Carolina

STONE SETTER:

Carolina Stone Setting
Cary, North Carolina

FEATURES:

Floor to floor thermal granite panels
Sand blast lettering and art work



PLAZA

OP/OVERALL PRODUCT IN PLACE

DILWORTH PLAZA

Fifteenth Street & Kennedy Boulevard
Philadelphia, Pennsylvania

OWNER:

City of Philadelphia

GENERAL CONTRACTOR:

The Lane Company, Inc.
North Hills, Pennsylvania

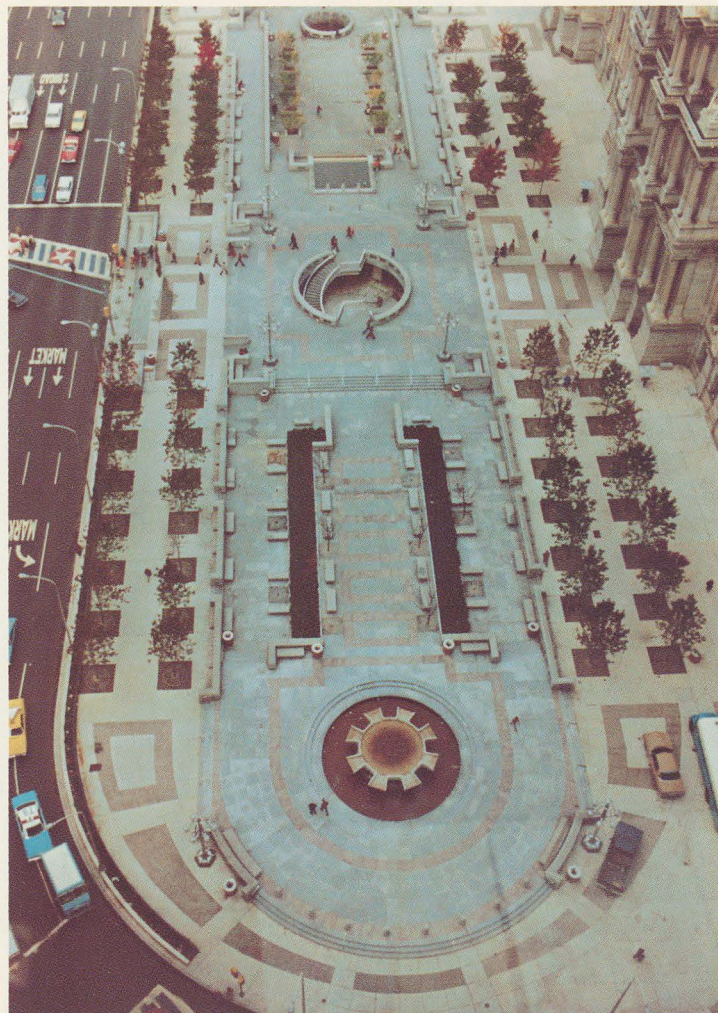
ARCHITECTS:

The Kling Partnership
Philadelphia, Pennsylvania

STONE SETTER:

Dan Lepore & Sons
Philadelphia, Pennsylvania

At the 1977 Building Stone Institute Convention, Dilworth Plaza won National Recognition as the most outstanding stone structure in the United States in the past two years. This imaginative use of granite by the architect - The Kling Partnership - is permanent proof of the beauty, adaptability and durability of granite.



DILWORTH PLAZA NORTH COURT

Features:

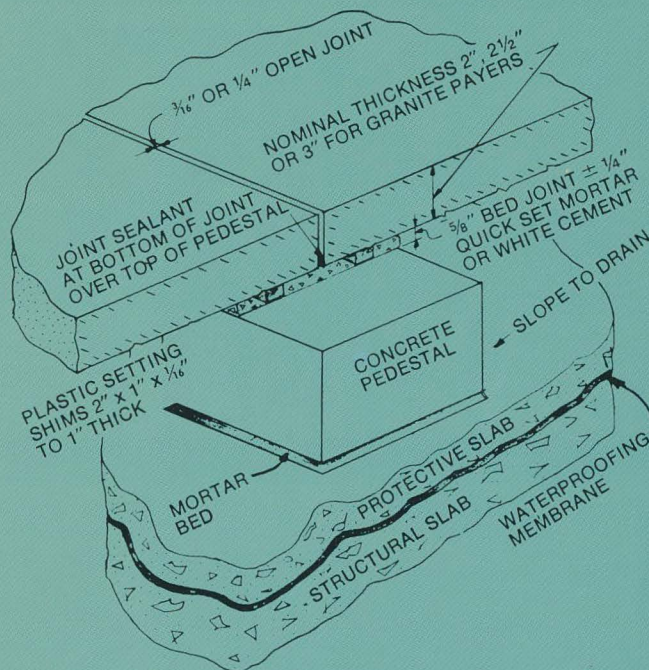
Sunken Garden with Granite
Retaining Wall
Granite Arches and Granite
Balustrade
Radial and Square Granite
Paving
Granite Tree Planters
with Pedestrian Benches
Granite Stairways Left & Right

DETAILS

OPEN JOINT PAVING

Open joint granite paving has been proven to be a very practical method of level floor installation over occupied or unoccupied areas.

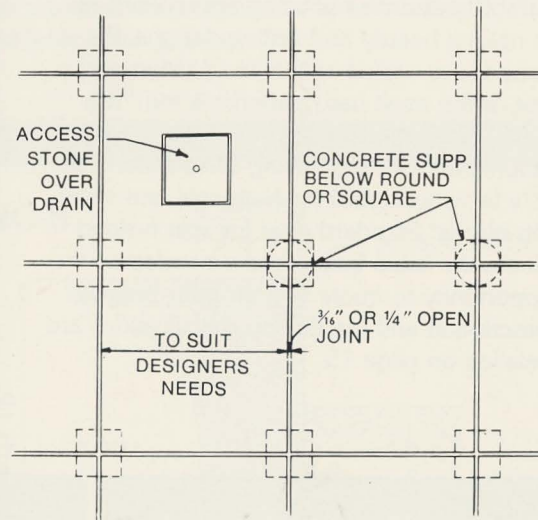
Open joints in granite paving of approximately $\frac{3}{16}$ " to $\frac{1}{4}$ " provide adequate drainage for a level walking area free of drain grates and warped surfaces. Designs of structural slabs, protective slabs and methods of waterproofing may vary from design shown depending on job conditions and architectural requirements.



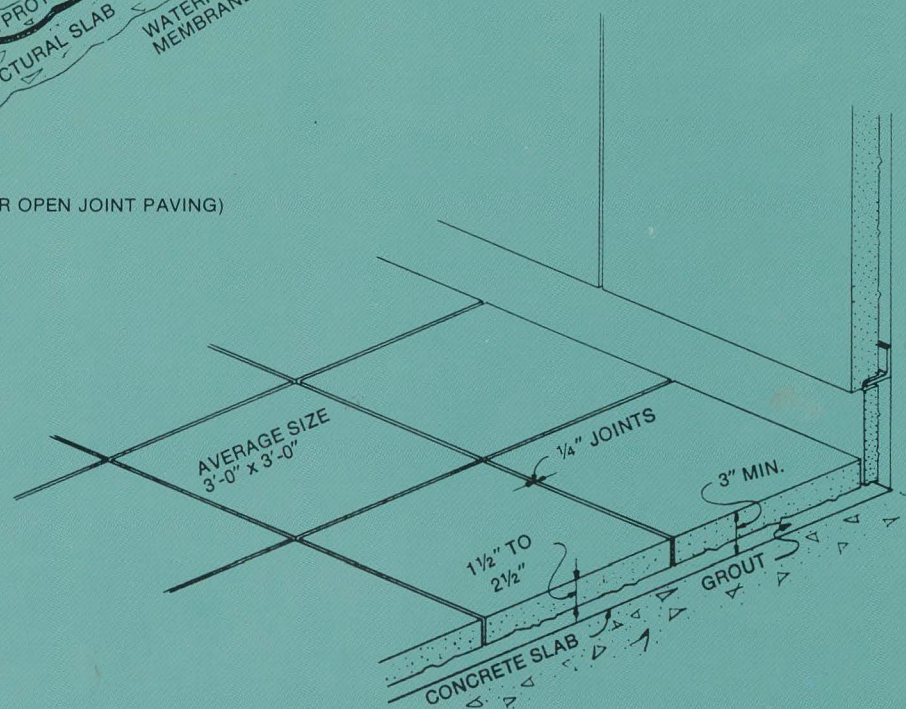
(SUPPORT DETAIL FOR OPEN JOINT PAVING)

INTERIOR OR EXTERIOR FLOORING

White Mount Airy Granite floors blend with almost any interior decor. Finishes range from a rough rustic finish to a smooth, high-sheen honed finish—all of which work exceptionally well with a good masonry floor sealer.



SIZE OF SUPPORT VARIES WITH SIZE AND THICKNESS OF PAVERS. THE AVERAGE SIZE SUPPORTS FOR 3'-6" SQ. PAVERS ARE APPROX. 10" SQ. OR 1'-0" DIA

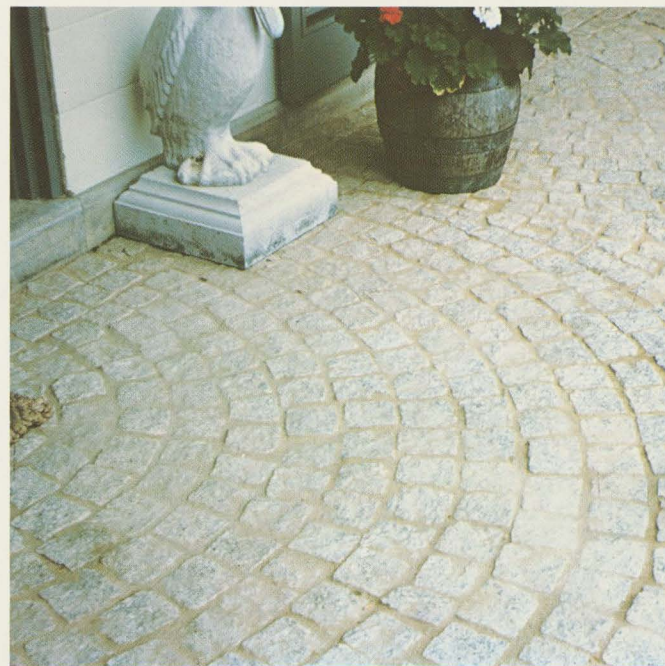


PAVING BLOCKS

OP/OVERALL PRODUCT IN PLACE

COBBLESTONE PAVING

The use of Granite Block Paving can be traced as far back as recorded history. With today's malls and plazas, granite paving is again becoming a popular item in landscaping designs. It does not deteriorate and requires virtually no maintenance. Granite paving has long been appreciated for its durability and now is being appreciated for its natural beauty and setting designs. Patterns are as varied as the imagination and one of the most used patterns is the "fish scale" pattern pictured at the right. Mount Airy Granite Paving Blocks are available in various sizes for both split and sawn top blocks. Standard sizes for split 6-sided blocks are listed below and we welcome the opportunity to quote you on your projects. Description and installation specifications are detailed on page 15.



Description	Length	Width	Thickness	Avg. Joint	Approx. Sq. Yds. Per Ton	Approx. Sq. Ft. Per Ton	Approx. Blocks Per Ton
Durax #1	3½" to 4½"	3½" to 4½"	3" to 4½"	¾"	5.9	53	333
Belgium #1	8" to 12"	3" to 5"	3" to 5"	1"	5.7	51	130
Special Belgium Blocks	7" to 9"	3" to 5"	3" to 5"	1"	5.8	52	165
Special Curb Blocks	10" to 14"	5" to 7"	4" to 5"(At Top)	1"	4.9	44	70



PLANTER'S NATIONAL BANK

Mount Airy, North Carolina

ARCHITECT:

Whittington-Brice Assoc.

Charlotte, North Carolina

GENERAL CONTRACTOR:

Blue Ridge Enterprises, Inc.

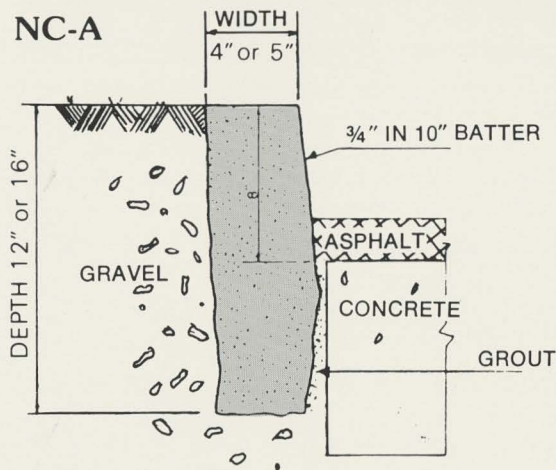
Mount Airy, North Carolina

CURBING

AI/ASSEMBLY INSTALLATIONS

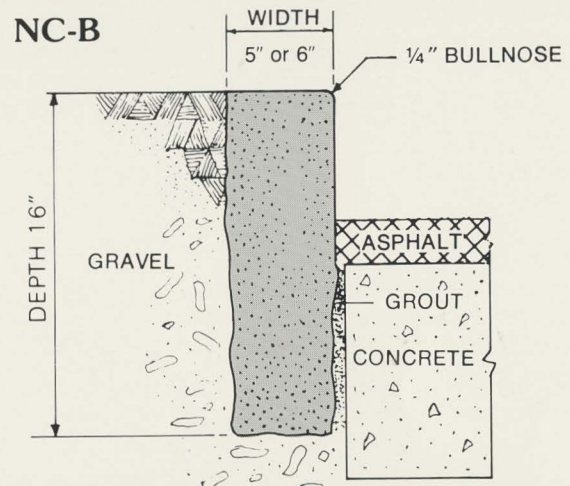
SPLIT FACE CURBING

Front face shall be smooth quarry split with no drill holes and no projection to exceed $\frac{3}{4}$ " or depression to exceed $\frac{1}{2}$ " down to paving line. Below paving line no depression or projection shall exceed 1". Front arris lines true and straight with no variation greater than $\frac{1}{8}$ ". Sizes listed below are standard sizes. Various other sizes are available upon request.

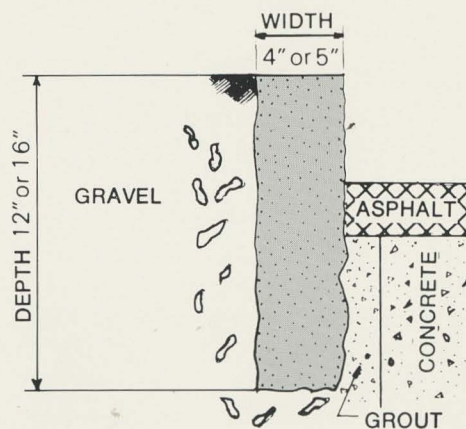


SAWED FACE CURBING

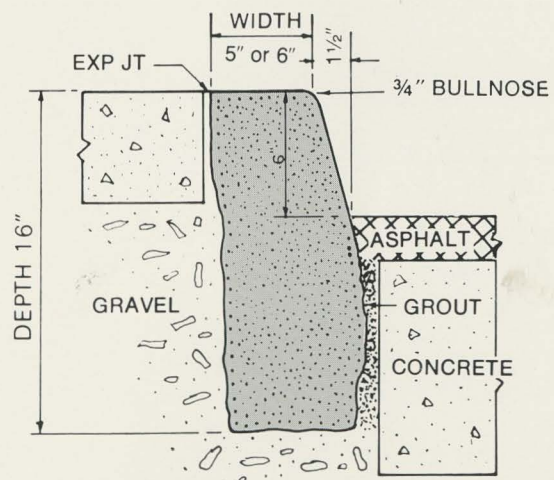
Front face shall be either sawed or hammered for a distance down of 8" with no projection or depression to exceed $\frac{1}{8}$ ". The remainder of the face shall have no projection or depression to exceed 1". Front arris line to be $\frac{1}{4}$ " bullnose and back arris line to be straight and true. Sizes listed below are standard sizes. Various other sizes are available upon request.



NC-AV



NC-C



SPECIFICATIONS

TS/TECHNICAL SUPPORT

SPECIFICATIONS FOR BUILDING GRANITE

1. GRANITE SUPPLIER

Quarry and fabricate all granite under contract in accordance with approved shop drawings and specifications.

2. SAMPLES AND QUALITY OF MATERIAL

Requested size and number of samples showing full range of color, texture and finish will be submitted to the designer for his approval. Inherent variation characteristic of the quarry from which granite is obtained will be accepted provided they do not, in the opinion of the designer, impair its strength or durability.

3. FINISHES

Polished—Mirror glass, with sharp reflections.

Honed—Dull sheen without reflections.

Fine Rubbed—Smooth, no sheen, and free of scratches.

Shot Ground—Plane surface showing circular markings with no regular pattern.

Thermal—Plane surface flamed mechanically to give uniform coarseness.

Stippled—Fine or coarse plane surfaces blasted with abrasive producing fine or coarse pebbled surfaces.

8-Cut—Fine bush hammered producing interrupted corrugated markings about 3/32" apart.

6-Cut—Medium bush hammered: interrupted corrugated markings about 1/8" apart.

4-Cut—Coarse bush hammered: interrupted corrugated markings about 7/32" apart.

Wire Saw—Plane surface showing slight trails or scratches about 3/32" deep.

Gang Saw—Produces parallel scorings about 1/8" deep.

4. SHOP DRAWINGS

The granite supplier shall submit all necessary shop drawings to the designer for his approval. These drawings shall show in detail stone dimensions, sections, jointing, anchoring devices, and stone setting numbers. No final sizing or finishing shall be done until the shop drawings for that part of the work have been approved.

FABRICATION

All granite shall be cut in strict accordance with approved shop drawings and specifications. The maximum variation in the dimension of any one piece of stone shall be one fourth of the specified bed or joint width.

Use 3/16" or 1/4" wide beds and joints for polished, honed or fine rubbed ashlar 4" or less in thickness: saw or cut full square back from the face at least two-thirds of the piece thickness. From that point the bed may fall under square not more than 1".

Use 3/16" or 1/4" wide beds and joints for polished, honed or fine rubbed ashlar over 4" thick saw or cut full square not more than 1" in 12" and shall be reasonable free of large depressions: the joint may fall under square not more than 1 1/2" in 12". 1/4", 3/8" or 1/2" beds and joints for ashlar with other finishes.

6. ANCHORS

All anchors, cramps, dowels and other anchoring devices shall be type 304 stainless steel as shown on approved shop drawing or equal.

7. LIFTING

Granite supplier to provide sufficient holes in stones weighing over 100 pounds for handling where possible. Lifting clamps will be loaned to setter by request.

8. INSTALLATION

Granite to be set in accordance with approved shop drawings and contract specifications. Cavity between back of granite and face of backup is to be kept clear of grout except in special conditions where called for on shop drawings or contract plans.

9. CLEANING

After being pointed, the granite work shall be carefully cleaned, starting at the top, removing all dirt, excess mortar, stains and other defacements with approved granite cleaners. Stainless steel or wool brushes may be used in cleaning. The use of regular steel brushes and acid solutions for cleaning is expressly prohibited.

10. PROTECTION OF FINISHED WORK

After the granite is installed, it shall be the responsibility of the general contractors to see that it is properly protected from damage.

CHEMICAL ANALYSIS

Alumina (Al ₂ O ₃)	18.51
Calcium Oxide (CaO)	2.63
Ferric Oxide (Fe ₂ O ₃)	1.78
Magnesium Oxide (MgO)	0.41
Manganese Oxide (MnO)	0.12
Potassium Oxide (K ₂ O)	3.96
Silica (SiO ₂)	67.33
Sodium Oxide (Na ₂ O)	3.60
Titania (TiO ₂)	0.38
Ignition loss above 105°C	1.20
Moisture dried at 105°C	0.14
Sulphur as Sulphur	
Trioxide (SO ₃)	0.01

LABORATORY TESTS

Crushing Strength	31,560 P.S.I.
Modular of Rupture	2,045 P.S.I.
Absorption	0.2357%
Water Vapor	
Transmission	0.440 Perms.
Weight Per	
Cubic Foot	165 Pounds
Bulk Specific Gravity	2.64
Coefficient of	
Expansion	4.38 x 10 ⁻⁶ /°F

SPECIFICATIONS

STONE BLOCK PAVING DESCRIPTION (Details page 12)

Under this item the Contractor shall furnish and place stone block paving as shown on the plans or as ordered by the Engineer.

Stone blocks shall be new granite or other stone as specified. The blocks shall be sound and durable, reasonably uniform in quality and texture throughout, free from shale, excess mica, seams, scaling or evidence of disintegration. Color shall be light gray with medium or fine grain. Samples of stone blocks must be submitted to and be approved by the Engineer prior to beginning the work. The blocks shall be rectangular in shape (see page 10 for sizes), unless otherwise specified or approved, and dressed that they may be laid as per setting specifications below. All blocks shall have one reasonably smooth split face with no projections or depressions over 1/2 inch. Cutting of blocks to meet pattern requirements will be permitted subject to the approval of the Engineer.

SUGGESTED SETTING SPECIFICATIONS FOR PAVING BLOCKS

In a Sand Bed:

A. Excavate the area to be paved and spread 8" depth of crusher run aggregate and compact thoroughly. Spread screening or coarse sand over area to be paved to a uniform depth of 2". Pavers shall be firmly bedded into bed of screening or sand and to finished grades. Joints shall be not less than 3/4" and not exceeding 1" in width. Joints shall be broom filled with a dry mix mortar, consisting of 1 part Portland cement to 3 parts clean sharp sand, thoroughly mixed. After broom-filling joints, the entire area shall be tamped with a "plate-type" vibratory compactor, to insure leveling of the pavers, consolidation and settlement of the dry mortar-mix. Broom-fill joints again, to achieve full mortar joints. Broom off excess mortar mix with a fine-hair broom to in-

sure that the surface of pavers is entirely clean. Spray the entire surface of the paving, treating only a small area at a time, **using a fine mist spray**, to completely saturate the joints.

B. Spray shall be carefully controlled to prevent re-distribution of mortar mix, and to insure that no flooding of joints shall occur. Repeat this process until joints have been saturated to their full depth.

On completion of saturation, inspect the area to insure that no joints have settled beyond a normal depth, (not to exceed 1/4" below nominal face of paver). Any joints showing excess settlement shall be filled to proper level with a stiff mortar mix (by trowel) and finished to match the balance of the joints.

In a Mortar Bed:

A. It is suggested that a concrete sub-base slab be used. The concrete slab shall be brought to an elevation of 1" plus the thickness of the block below the finish grade elevation. The concrete slab should have a rough broomed finish.

The surface of the concrete slab shall be thoroughly cleaned of all loose materials, and free of dirt, mud, and other foreign matter. Hose dampen the surface of the slab, and apply liberal sprinkling of Portland Cement over the area to be paved. Broom the cement and water slurry over the surface of the concrete to be paved.

Place mortar bed — minimum 1" depth, comprised of 1 part Portland Cement to 3 parts clean sharp sand (thoroughly mixed), with only sufficient water to form a stiff mortar mix. Pavers shall be firmly bedded into the mortar bed, bringing upper faces of pavers to proper grades. Pavers shall be spaced to provide joints of not less than 3/4" width and not exceeding 1" width.

Joints shall be broom-filled with a dry mortar mix, consisting of 1 part Portland Cement to 3 parts clean sharp sand, thoroughly mixed. Broom off excess mortar mix with a fine hair-broom to insure that the surface of the

pavers is entirely clean.

B. Spray shall be carefully controlled to prevent re-distribution of mortar mix, and to insure that no flooding of joints shall occur. Repeat this process until joints have been saturated to their full depth.

On completion of saturation, inspect the area to insure that no joints have settled beyond a normal depth (not to exceed 1/4" below nominal face of paver). Any joints showing excess settlement shall be filled to proper level with a stiff mortar mix (by trowel) and finished to match the balance of the joints.

SPECIFICATIONS FOR GRANITE CURB (Details page 13)

Top surface of curbstone shall have a sawed top to an approximate true plane and shall have no projection or depression greater than 1/8".

Back arris line shall be pitched straight and true with no variation from a straight line greater than 1/4".

The back shall have no projection to exceed 4" in 12" batter for a distance of 3" down from the top (no projection or depression to exceed 1 1/2" for Bridge Curb). Ends shall be square with the plane of the face and top and when stones are placed end to end as close as possible no more than 1/2" shall show for the full width of the top and 8" down the front (full depth for Bridge Curb). The remainder of the end may break back not over 8" down from the plane of the joint. The minimum width for two-thirds the length of bottom shall be 1" less than the width at the top, but in no case less than the 4" for two-thirds the length of the curb. Anchors where required shall be 1/2" in diameter, 10" overall length of which 1" is turned down on a 90 degree angle on one end and 3" is turned down on approximately a 45 degree angle (30°-60°) on the other end. They shall be galvanized after fabrication. Anchor shall extend a minimum of 6" into the concrete behind the curb-stone.



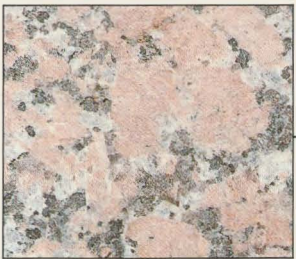
Modern man's tribute to his courage, ingenuity and tenacity is permanently etched on the landscape of America, and the classic beauty of Mount Airy white granite has played a major role in the memorialization of these achievements. From the Wright Brothers Monument (pictured above) on a windswept dune in Kitty Hawk, North Carolina, the Screaming Eagles Memorial in Arlington Cemetery honoring the war dead of the 101st Airborne Division, or the Einstein Modern Space Technology Memorial, the quality and workmanship inherent in Mt. Airy granite has served to bridge the generations of the world's greatest nation.



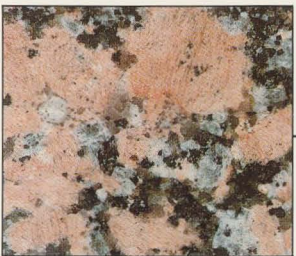
Cedar Rose
Thermal Finish



Cedar Rose
Polished Finish



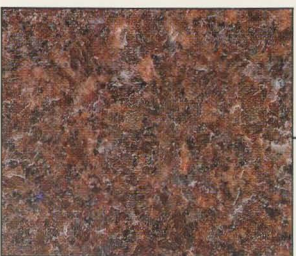
Quarry Pink
Thermal Finish



Quarry Pink
Polished Finish



Dakota Rose
Thermal Finish



Dakota Rose
Polished Finish



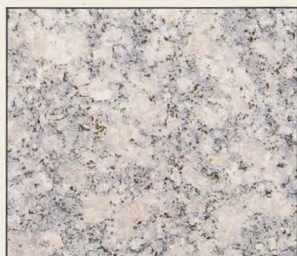
Carolina Pink
Thermal Finish



Mount Airy
Thermal Finish



Pennsylvania Black
Thermal Finish



Green County
Thermal Finish



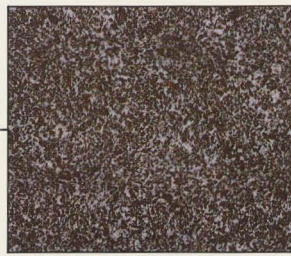
Pink Kershaw
Thermal Finish



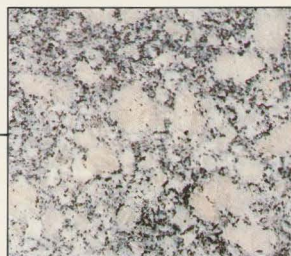
Carolina Pink
Polished Finish



Mount Airy
Polished Finish



Pennsylvania Black
Polished Finish



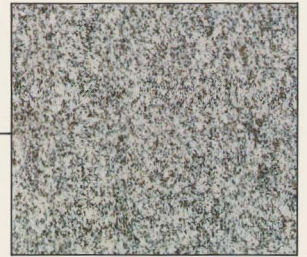
Green County
Polished Finish



Pink Kershaw
Polished Finish



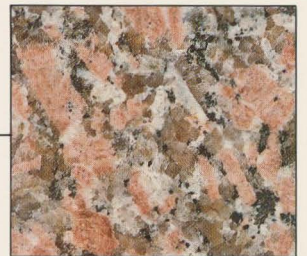
Georgia Gray
Thermal Finish



Georgia Gray
Polished Finish



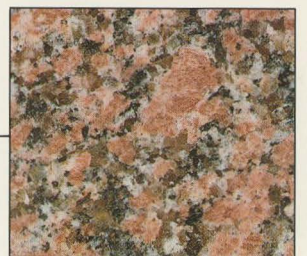
Apple Red
Thermal Finish



Apple Red
Polished Finish

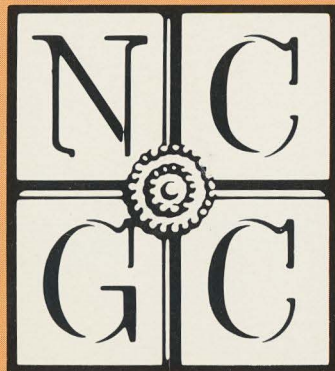


Quarry Red
Thermal Finish



Quarry Red
Polished Finish

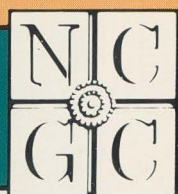
90236.017



North Carolina Granite Corp.
P.O. Box 151 — Quarry Road
Mount Airy, North Carolina 27030
(919) 786-5141

Member: Building Stone Institute
Member: National Building Granite Quarries Association

FOR REPRESENTATIVES CALL SWEET'S BUYLINE



GRANITE