

NORTH

# **DRAWING INDEX**

C1 COVER SHEET

- A0.1 GENERAL NOTES & GUIDELINES A1 AS-BUILT PLAN
- A2 PROPOSED SITE LAYOUT PLAN

## D1 DETAILS

# AGENCY PARTNERS

HON. ALBERT BRYAN GOVERNOR OF THE VIRGIN ISLANDS OF THE UNITED STATES

HON. LISA ALEJANDRO ACTING COMMISSIONER DEPARTMENT OF PROPERTY AND PROCUREMENT

HON. NATHAN SIMMONDS VIRGIN ISLANDS PUBLIC FINANCE AUTHORITY

HON. DEREK GABRIEL COMMISSIONER DEPARTMENT OF PUBLIC WORKS

# **PROJECT SCOPE**

RENOVATE THE EXISTING SITE CONDITIONS TO **INCLUDE:** 

- REMOVAL OF MORTAR, GRIME, AND DEBRIS ON BRICK STEPS
- REMOVAL AND REPLACEMENT OF LOOSE/SUNKEN **BRICKS ON STEPS**
- REMOVAL AND INSTALLATION OF HANDRAILS
- INSTALL AND PAINT KNEEWALLS FOR SEATING AND RETAINAGE

- INSTALL LAMPPOSTS AND ELECTRICAL CONDUIT FOR LIGHTING

- REMOVAL OF DIRT AND DEBRIS TO IMPROVE DRAINAGE
- REPLACE EXISTING SEWAGE LIDS

- PAINT/REFURBISH EXISTING SIGNAGE POLES

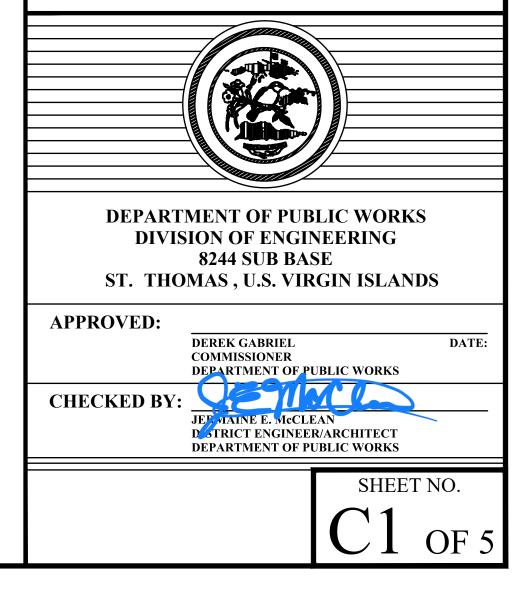
- PRESSURE WASH AND PAINT VIPFA OFFICE BUILDING

# APPLICABLE CODES

ALL WORK SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES, INCLUDING, BUT NOT LIMITED TO THE LATEST EDITIONS OF THE FOLLOWING:

BUILDING: 2018 IBC/ VI TITLE 29

AMERICAN CONCRETE INSTITUTE - ACI



## **GENERAL CARE**

THE CONTRACTOR SHOULD BE MINDFUL OF THE HISTORIC IMPORTANCE OF THE SITE AND CARE MUST BE TAKEN TO PROTECT ALL HISTORIC FEATURES. THEREFORE, THE CONTRACTOR WILL BE REQUIRED TO KEEP THE PROJECT SITE TIDY AND IN A WORKMAN MANNER.

## **BRICK RESTORATION**

FOR THE REPAIR OF THE DAMAGED OR SUNKEN HISTORIC BRICKS, THE BRICKS SHOULD BE CAREFULLY REMOVED AND RESET IN A NEW LIME MORTAR BED. THE PRESERVATION GUIDELINE FOR REPAIRING HISTORIC BRICKS IS NOTED IN 2/A.01. SEE ATTACHED PDF. THE NOTES FOR THE REPLACEMENT OF MISSING HISTORIC BRICKS, RED AND YELLOW, SHOULD PROVIDE GUIDANCE ON SOURCES FOR THESE BRICKS.

THE VIRGIN ISLANDS STATE HISTORIC PRESERVATION OFFICERS AND OFFICES HAS A SMALL COLLECTION OF HISTORIC YELLOW BRICKS THAT CAN BE PROVIDED FOR RESTORATION WORK IN THE NEED FOR REPLACING UNSALVAGEABLE AND MISSING BRICKS. THE GOVERNMENT WILL NOT BE CHARGED BY THE CONTRACTOR FOR THE PROVISION OF THESE BRICKS.

FOR THE REPAIR OF THE EXISTING BRICKS, THE CONTRACTOR HAS THE OPTION OF **RESTORING SALVAGEABLE BRICKS BY** FLIPPING THE BRICKS OVER TO EXPOSE ITS INTACT UNDERSIDE TO THE STEPS' SURFACE. THESE BRICKS MUST BE RESTORED TO THE LEVEL SURFACE OF THE STEPS TREADS.

ALL THE MORTAR JOINT REPAIR WORK MUST BE DONE WITH A LIME BASED MORTAR WITH WHITE CEMENT: NOT GRAY.

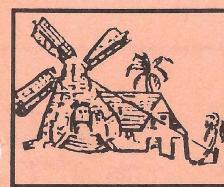
### HANDRAIL INSTALLATION

THE NEW HANDRAIL POSTS MUST BE MOUNTED IN THE EXISTING POST HOLES THAT EXIST ON THE WEST SIDE OF THE 99 STEPS. FOR THE EAST SIDE POST HOLES, THE HOLES NEED TO BE CORE DRILLED AND NOT JACKHAMMERED OUT. ALTERNATIVELY THE POST ON THE EAST SIDE OF THE STEPS CAN BE MOUNTED IN THE DIRT ADJACENT TO THE STEPS.

THE HANDRAIL END CURVE DETAIL MUST BE AT THE START AND END OF ALL THE RAIL RUNS, TO INCLUDE THE SIDE LANDINGS.

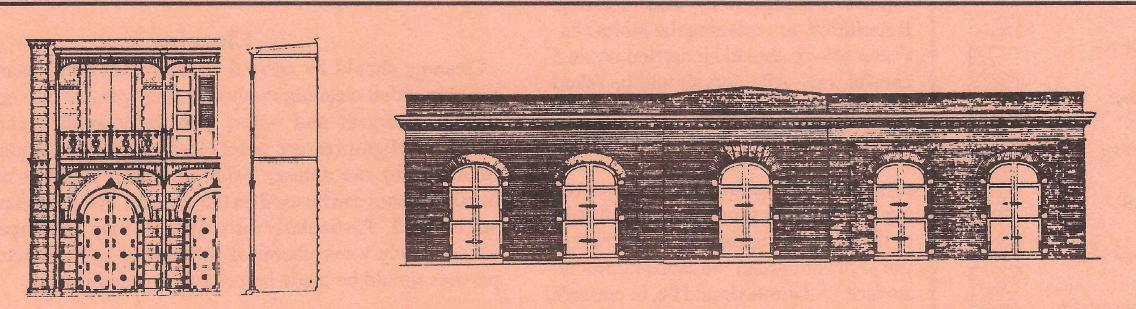
### **SWALES CLEARING**

IT IS RECOMMENDED TO APPLY THE USAGE OF HIGH PRESSURE WATER AND VACUUM TRUCKS TO ASSIST WITH THE REMOVAL OF HEAVILY IMPACTED DIRT FROM THE DRAINS AND SWALES TO RESTORE THE FULL FUNCTIONALITY OF DIRECTING STORMWATER RUNOFFS AND DRAINAGE THROUGH THE SITE.



## Proportioning **PRESERVATION GUIDELINE 4 Division for Archaeology and Historic Resources Virgin Islands Department of Planning and Natural Resources REPAIR, CLEANING, AND REPOINTING OF BRICK WALLS** There are few brick or brick-faced buildings in the Virgin drainage. Badly damaged or deteriorated brick, should be replaced in kind with bricks resembling the original (or in some Islands. However, there are a number of outstanding examples of mainly 19th-century brick buildings, mostly located in comcases, original bricks can be turned around to expose less mercial areas. While problems of treatment come up rarely, deteriorated faces). All mortar joints should be sound and greater care than ever must be taken for the preservation of well-maintained.

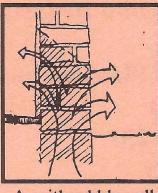
these buildings.



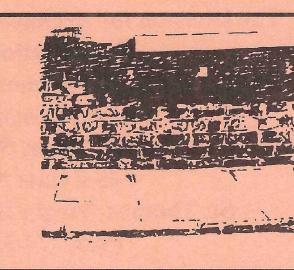
Although brick buildings are rare in the Virgin Islands, there are several outstanding examples. These are both on Kronprindsensgade, in Charlotte Amalie. **Mortar and Mortar Mixes** 

# **General Problems**

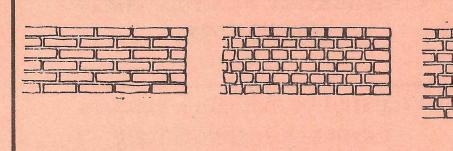
Brick buildings often consist of brick veneers over rubble masonry cores. Whether all brick or brick-veneer, however, they share many of the characteristics of rubble walls. Initial concerns are water penetration into walls. Walls should be carefully examined for indications of leaking roofs or gutters or damp foundations. Efforts should then be made to correct such problems either by repairing roof problems or providing better

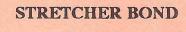


As with rubble walls brick walls are subject to moisture problems. A damp-proof course can cut down on rising



Efflorescence, or surface salt deposits - caused by rising damp.





Some typical brick bond patterns - created by the way in which the brick was laid. It is important to duplicate the original pattern when repairing or rebuilding

## 2 BRICK PRESERVATION GUIDELINE

**GENERAL NOTES** NO SCALE



NO SCALE

V.I. PUBLIC FINANCE AUTHORITY ST. THOMAS, U.S. VIRGIN ISLANDS

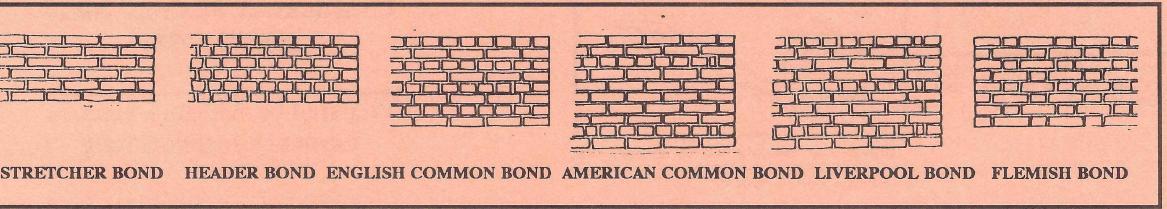
It is important that the mortar for repair of deteriorated brick joints match the original. This usually means a high-lime-content mortar following the following specifications: Mortar A) Portland cement: ASTM C 150, Type 1, White

B) Lime: ASTM C 207, Type S, high plasticity

C) Sand: ASTM C 144, fine washed

D) Admixture: Use a water reducing and plasticizing agent to reduce water content and drying shrinkage. "Omicron Mortar proofing," a producer of Master Buildings Company or Equivalent. Follow manufacturer's instructions for use.

E) Potable water: Free of impurities and organic material.



A) 1 part white Portland cement; 5 parts lime; 9-10 parts sand, recommended mix. A higher lime content is also possible and in many cases desirable.

B) Sample areas should be tested and examined by the architect or supervisor prior to settling on the final mix.

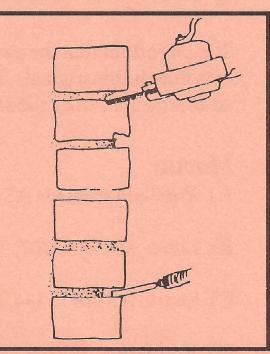
It is recommended always that a test patch be made in areas to be treated. If any doubts exist, the Division for Archaeology and Historic Preservation in the Department of Planning and Natural Resources is available for consultation.

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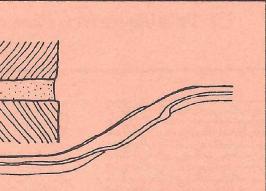
# GENERAL NOTES & GUIDELINES

## Repointing

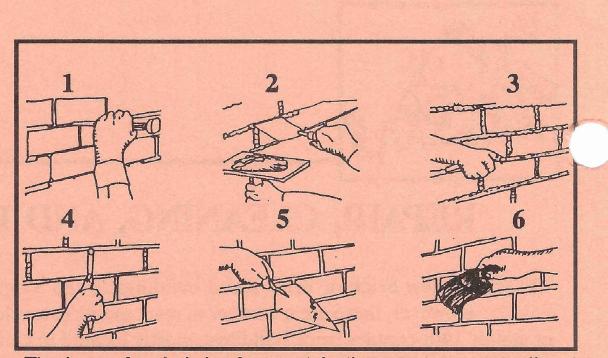
in concerns for brick wall e repointing and cleaning. , or replacing the mortar beks, should be carried out in a All joints should be raked d no machines or saws should Using a chisel, loose mortar removed to a depth aply twice the width of the opennortar should be carefully laid s being careful not to feather spread the mortar onto the Il joints should be, in mason's tly struck."



s should be raked out to 2 1/2 times using a chisel. Mechanical means, ar masonry saws, can badly damage



our building had an unusual joint ave joint such as this - obtained with ointer - is best.



The six steps for repointing, from top left: 1) remove loose mortar; 2) pack in new mortar following recommended mix; 3) apply jointer to horizontal joints; 4) apply to vertical joints; 5) remove excess mortar; 6) wait 2 hours, then brush and wash clean.

### Cleaning

Cleaning should be carried out only when necessary. The recommended cleaning method is simply water or a combination of detergent and water, with water applied under low pressure. High-pressure water cleaning (over 1000 pounds per square inch) can damage brick surfaces. If dirt is resistant, bristle brushes can be used on the surface. Wire brushes should not be used. Particularly dirty surfaces may be cleaned using an extremely weak chemical solution of sulfuric acid. Test patches should be made before full cleaning begins.

Sandblasting of brick is strictly prohibited. Sandblasting mars the brick surface, altering its character al together. Extremely porous or soft bricks or bricks that have been previously sandblasted can be treated with a coat of lime wash, following the instructions for plaster walls set out in a separate guideline. Painting with a flat acrylic latex, waterbased paint is also recommended.

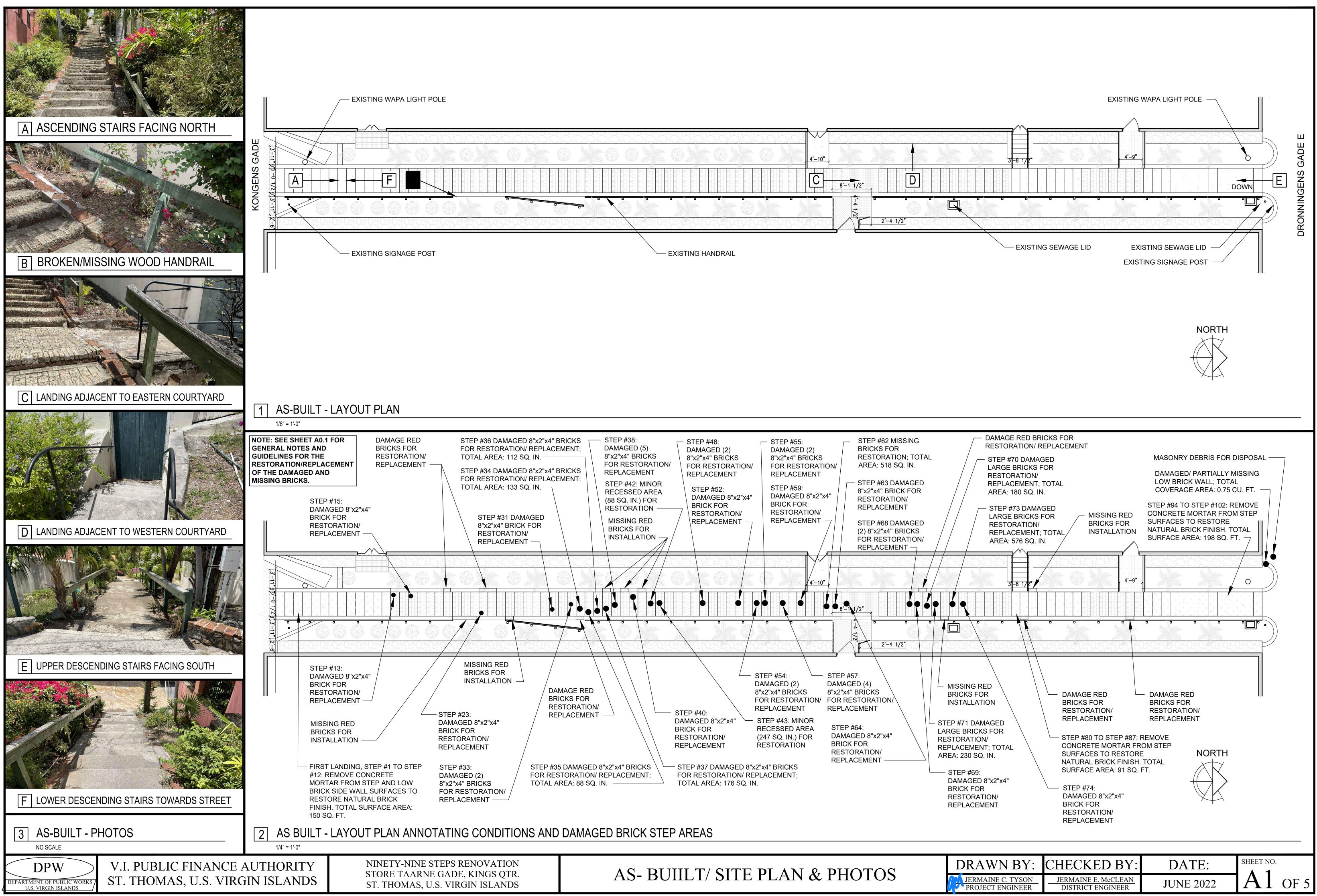
For further information contact:

The Division for Archaeology and Historic Preservation **Virgin Islands Department of Planning and Natural Resources** Nisky Center, Suite 231 **#45 Estate Nisky** St. Thomas, Virgin Islands 00802 (809)774-3320

> or **115 Watergut Homes** Christiansted, St. Croix 00820 (809)773-7081

> Prepared by William Chapman Layout by Jeanne Strong

DRAWN BY:	CHECKED BY:	DATE:	SHEET NO.
JERMAINE C. TYSON PROJECT ENGINEER	JERMAINE E. McCLEAN DISTRICT ENGINEER	JUNE 2022	A0.1 of 5



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U.S. VIRGIN ISLANDS	

