



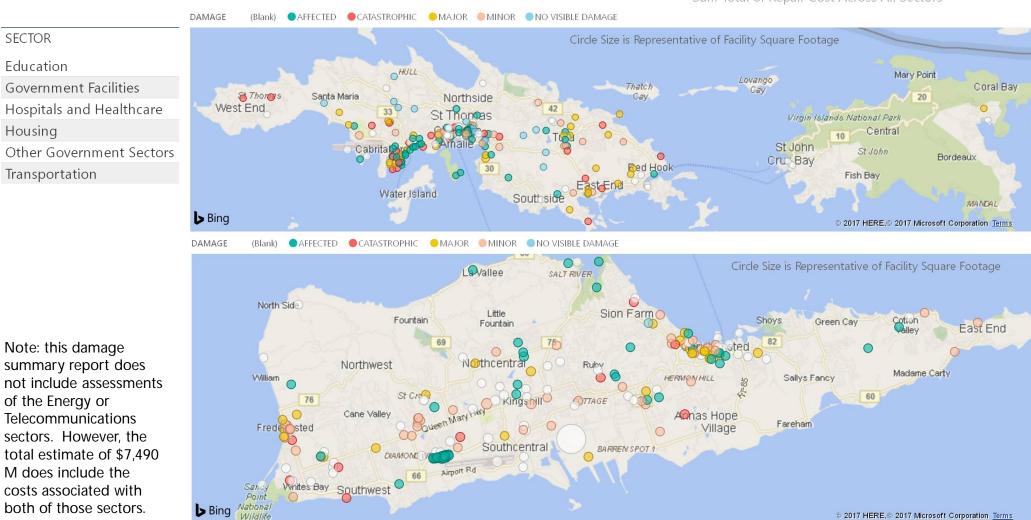
VI Damage Assessments

Damage assessment information included in this document does not include Energy and Telecommunications Sectors

Summary of Preliminary Damage Assessments For Task Orders 001 thru 004 November 13, 2017

ummary \$7,490 [

\$7,490 M **AECOM**



Sum Total of Repair Cost Across All Sectors

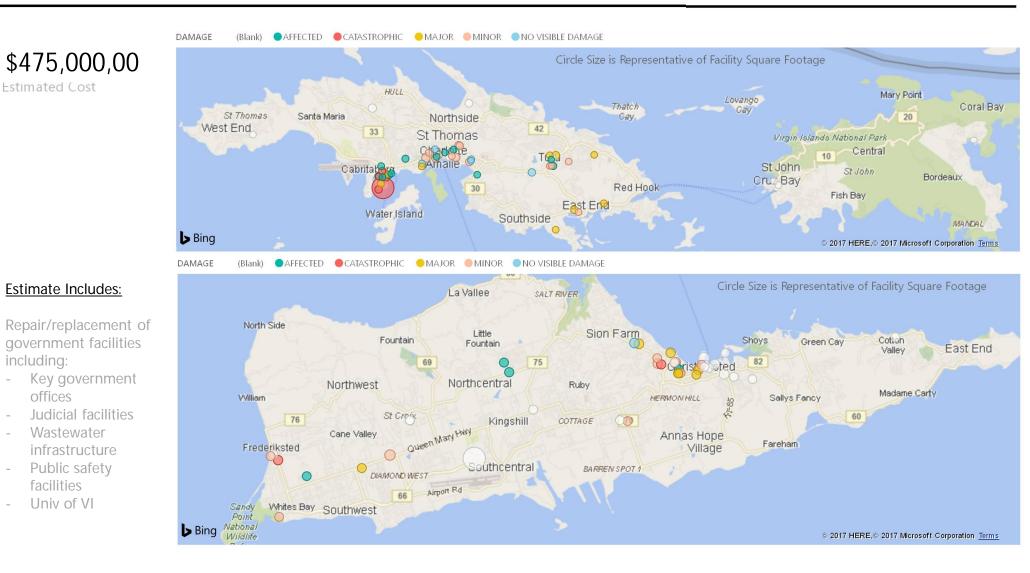
USVI Recovery Program Cost Summary

DAMAGE (Blank) AFFECTED CATASTROPHIC OMAJOR OMINOR ON VISIBLE DAMAGE \$715,000,000 Circle Size is Representative of Facility Square Footage Estimated Cost HULL Mary Point Lovango Thatch Coral Bay Cav St Thomas Santa Maria Northside Cay 20 West End 42 St Thomas 33 Virgin Islands National Park 0 6 Anoter Central T 10 Amalie Cabritaber St John 0 St John Bordeaux Cruz Bay Red Hook 30 Fish Bay East End Water Island Southside MANDAL > Bing © 2017 HERE,© 2017 Microsoft Corporation Terms DAMAGE (Blank) ● CATASTROPHIC ● MAJOR ● MINOR NO VISIBLE DAMAGE AFFECTED Circle Size is Representative of Facility Square Footage Estimate Includes: La Vallee SALT RIVER Replacement of 9 North Side Little Sion Farm destroyed schools with Fountain Cotton Shoys Fountain Green Cav East End Valley 6 new schools 75 82 69 Christiansted Northcentra Northwest Ruby Madame Carty Replacement of William HERMON HILL Sallys Fancy 5 damaged equipment Å St Croix 60 70C 76 TAGE including buses, IT Queen Man Cane Valley Annas Hope Fareham equipment, etc Frederosted Village Southcentral BARREN SPOT 1 DIAMOND WEST Airport Rd 66 Wites Bay Southwest Sandy Point Bing National © 2017 HERE,© 2017 Microsoft Corporation Terms Wildlife

Education

AECOM

Government Facilities

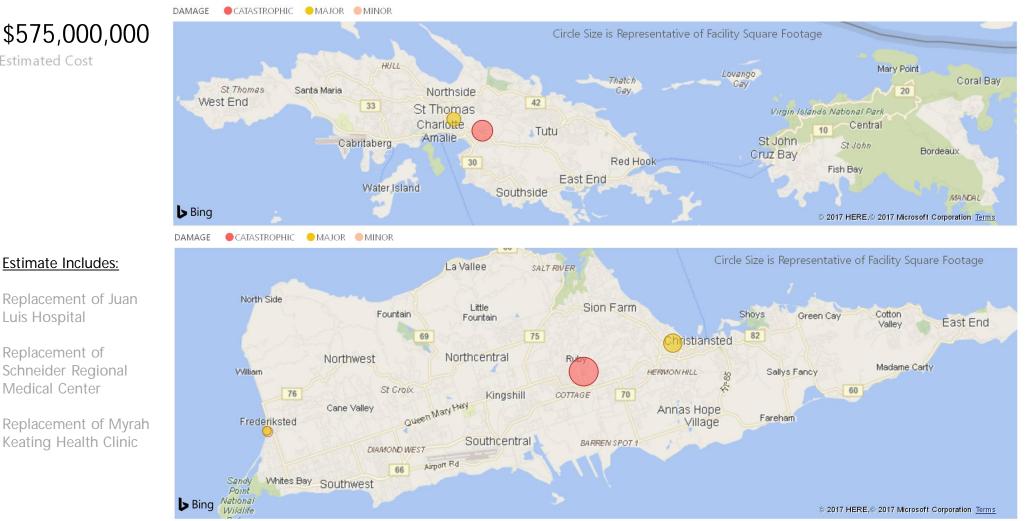


● AFFECTED ● CATASTROPHIC ● MAJOR DAMAGE (Blank) \$425,000,00 Circle Size is Representative of Facility Square Footage Estimated Cost HULL Mary Point Lovango Thatch Coral Bay Cay St Thomas Santa Maria Cay 20 Northside West End 42 33 St Thomas Virgin Islands National Park Charlotte Central 10 Tutu Amalie St John Cabritaberg St John Bordeaux 0 Cruz Bay 00 Red Hook 30 Fish Bay East End Water Island Southside MANDAL > Bing © 2017 HERE,© 2017 Microsoft Corporation Terms DAMAGE (Blank) ●AFFECTED ●CATASTROPHIC ●MAJOR Circle Size is Representative of Facility Square Footage Estimate Includes: La Vallee SALT RIVER Road infrastructure North Side Little Sion Farm Fountain Shoys Cotton repairs Fountain Green Cav East End Valley 75 82 69 Christiansted Airport terminal and Northcentral Northwest Ruby tower repairs Madame Carty William Sallys Fancy HERMON HILL 3 令 St Croix 60 76 70 Kingshill COTTAGE Queen Mary Hwy Port/harbor and cruise Cane Valley Annas Hope Fareham ship terminal repairs Frederiksted Village Southcentral BARREN SPOT 1 DIAMONE VEST Airport Rd 66 Whites Bay Southwest Sandy Point National > Bing © 2017 HERE,© 2017 Microsoft Corporation Terms Wildlife

Transportation

AECOM

Hospitals and Healthcare



Estimate Includes:

Estimated Cost

Replacement of Juan Luis Hospital

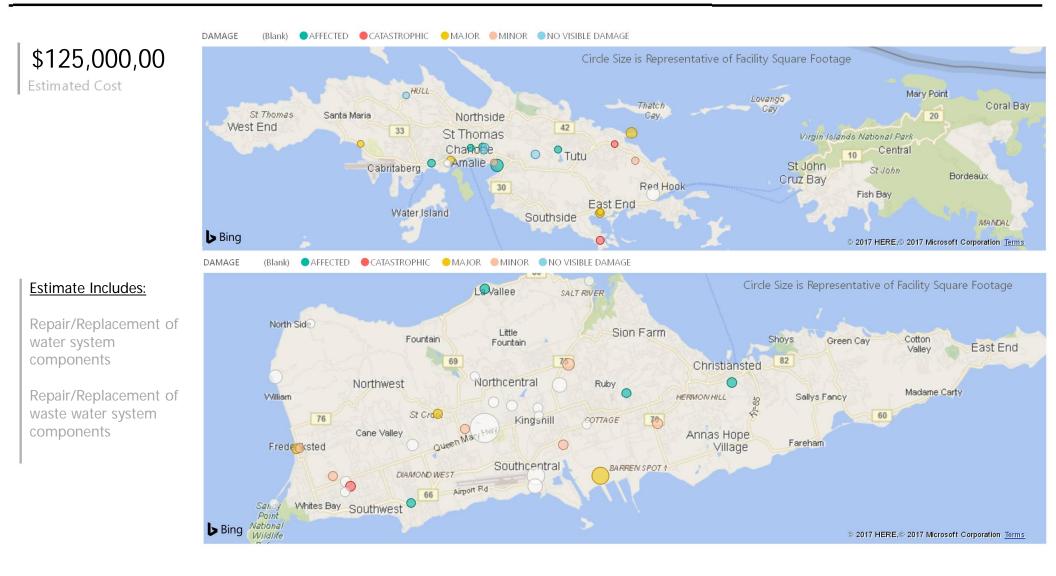
Replacement of Schneider Regional Medical Center

Replacement of Myrah Keating Health Clinic

DAMAGE (Blank) AFFECTED CATASTROPHIC OMAJOR OMINOR ON VISIBLE DAMAGE \$1,802,000,000 Circle Size is Representative of Facility Square Footage Estimated Cost HULL Mary Point Lovango Thatch Coral Bay Cay Thomas Santa Maria Cay 20 Northside West End 42 0 33 St Thomas Virgin Islands National Park 00 0 Central 10 Tutu Cabritaperg St John St John Bordeaux Cruz Bay Red Hook 30 0 Fish Bay East End Water Island Southside MANDAL Bing © 2017 HERE,© 2017 Microsoft Corporation Terms DAMAGE (Blank) ● CATASTROPHIC ● MAJOR MINOR NO VISIBLE DAMAGE AFFECTED \bigcirc Circle Size is Representative of Facility Square Footage Estimate Includes: La Vallee SALT RIVER **STEP Program** North Side Sion Farm Little Fountain **Temporary Repairs** Shoys Fountain Green Cav Cotton East End allev 82 69 75 sted **CDBG-DR** Permanent Nothcentral Northwest Ruby Madame Carty Repairs William HERMON HILL Sallys Fancy 58 0 70 춦 St Croix ingshill 60 76 COTTAGE Queen Mary Hay **VIHA** Facility Cane Valley Annas Hope Fareham Fredersted Repair/Replacement 0 Village 0 Southcentral BARREN SPOT 1 DIAMOND Airport Rd 66 Whites Bay Southwest Sandy Point National > Bing © 2017 HERE,© 2017 Microsoft Corporation Terms Wildlife

Housing

Other Government Sectors



Juan F. Luis Hospital

4007 Estate Diamond Ruby Christiansted, St. Croix 00820 ...

Catastrophic

1982

Year Built

Non-Flood: Wind Driven Rain. Roof Damage, Water Intrusion

Disaster Damage

Steel Structure with Exterior Insulation Finish Syst.

Building Materials

240.000

Square Footage

Preliminary Assessments by Discipline



\$63,600,000 \$155,000,000 Replacement Cost Repair Cost \$16,000,000 \$16,000,000 Swing Space Cost Swing Space Cost \$1,100,000 \$80,700,000 \$171,000,000 Total Cost to Repair Total Cost of Replace. Cost to Repair vs. Cost of Replacement \$81M

Total Cost to Repair

\$81M

After Storm



AECOM

\$171.00M

Facility Name Architecture Structure Mechanical/Plumbing Electrical / Comm/ Security **Fire Protection Overall Narrative Rating** Site_1 Minor to Moderate Moderate to significant Catastrophic-Remediation Juan F. Luis Catastrophic Damage to Moderate Damage, only Moderate to significant damage, Significant damage- FA multiple exterior equipment including Hospital roofing and roof limited structural systems Damage. Majority of site damage, Main electrical devices on level 3 efforts that will be insulation causing mold damaged. infrastructure is in useable pumps, fans, condensing units, and concerns are automatic damaged, moderate FA necessary as a result of remediation in ceiling - Multiple large openings, condition, some debris is exterior piping and duct insulation has transfer switches not device issues on level 2, roof damage will require plenums and especially louvers, which present from elements of sustained significant to major damage automatic but operating and on level 1. replacement of a replacement of spray-on failed now require the building, Majority of on the roof and exterior locations. manually and almost half of significant portion of all fireproofing. -Minor reinforcing around the exterior lighting damaged Variable refrigerant system serving the the interior lighting is partitions and building damage to EIFS siding rough openings. OR area has been destroyed. Insulation nonoperational. Main systems within the and louvers. -Minor to - Some long span steel stud within the building on duct and piping communications damage is building. moderate damage to walls which failed require that has water damage has to be public address system has ceilings, walls and floors intermediate members to removed and replaced. very poor sound quality from water damage. support the walls

Juan F. Luis Hospital



Schneider Regional Medical Center

\$106M

9048 Sugar Estate Rd. Charlotte Amalie, St. Thomas ...

Before Storm

support the walls

Catastrophic

1982 and 2005

Year Built

Non-Flood: Wind Driven Rain, Roof Damage, Water Intrusion

Disaster Damage

Steel and Concrete Structure with Exterior Insulation **Finish System**

Building Materials

294.453

Square Footage

Preliminary Assessments by Discipline

plenums and

damage.

Facility Name

Regional Medical

Schneider

Center





\$176.00M

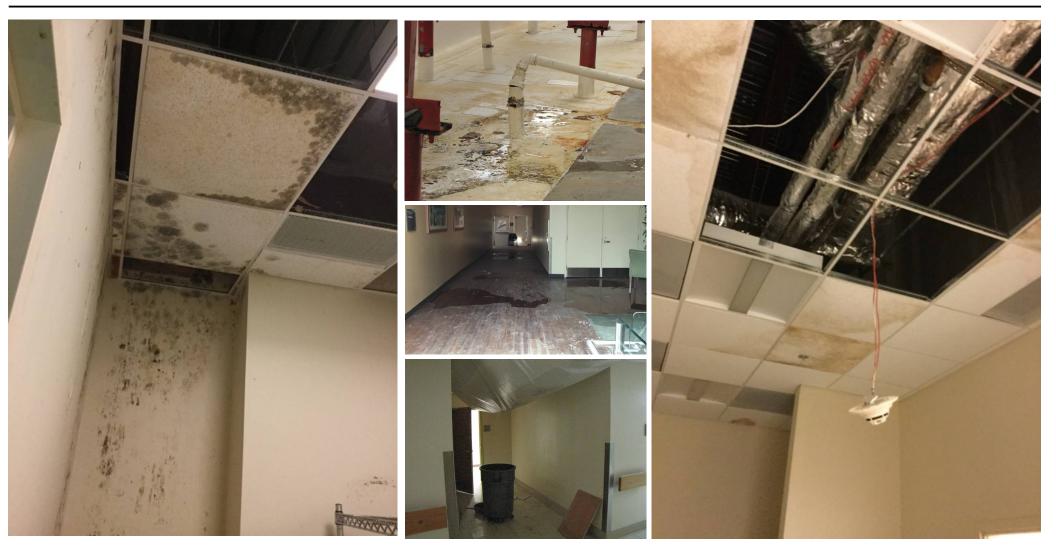
AECOM

Architecture Structure Mechanical/Plumbing Electrical / Comm/ Security **Fire Protection Overall Narrative Rating** Site_1 Catastrophic damage. The Catastrophic-Remediation Catastrophic Damage to Moderate Damage, only Minor to Moderate Catastrophic damage to the HVAC roof Moderate damage. FA roofing an roof limited structural systems Damage, Majority of site top equipment is missing or dislodged interior lighting and branch Devices appear to be efforts that will be damaged by water wiring suffered moderate to insulation causing mold damaged. infrastructure is in useable from roof curbs or original locations. necessary as a result of remediation in ceiling - Multiple large openings, condition, some debris is Roof experiencing ponding and leaking significant damage estimated infiltration. Sprinkler roof damage will require System does not appear especially louvers, which present from elements of into lower levels. Insulation and at approximately half. replacement of a replacement of spray-on failed now require the building, all exterior equipment on upper levels has been to show any damage. significant portion of all fireproofing. -Minor reinforcing around the lighting damaged. compromised with water from leaking. partitions and building damage to EIFS siding rough openings. Cancer Center - HVAC moderate damage systems within the and louvers. -Moderate - Some long span steel stud throughout, domestic water shutdown building. damage to ceilings, walls walls which failed require due to leaks in the system. and floors from water intermediate members to

Total Cost to Repair

Schneider Regional Medical Center

AECOM



Estate Catherineberg

Catherineberg Rd., Charlotte Amalie, St Thomas 00802, US...

Major

Damage Rating

1830

Year Built

Non-Flood: Wind Driven, Water Intrusion.

Disaster Damage

Brick and stone masonry construction with plaster/stucc...

Building Materials

7,900

Square Footage

Preliminary Assessments by Discipline



Before Storm

\$1,297,727 \$6,320,000 Replacement Cost Repair Cost \$790,000 \$790,000 Swing Space Cost Swing Space Cost \$259,545 \$2,347,272 \$7,110,000 Total Cost to Repair Total Cost of Replace.. Cost to Repair vs. Cost of Replacement \$2M



Total Cost to Repair

\$2M

After Storm





Estate Catherineberg



Government House, St. Croix, Christiansted

1105 King Street, Christiansted, St. Croix 00820 USVI

Major

Damage Rating

1742

Year Built

Non-Flood: Wind Driven, Water Intrusion.

Disaster Damage

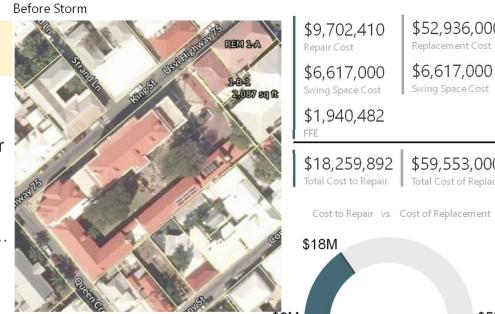
Brick and stone masonry construction with plaster/stucc...

Building Materials

66.170

Square Footage

Preliminary Assessments by Discipline



Total Cost to Repair

After Storm

\$52,936,000

Replacement Cost

\$6,617,000

Swing Space Cost



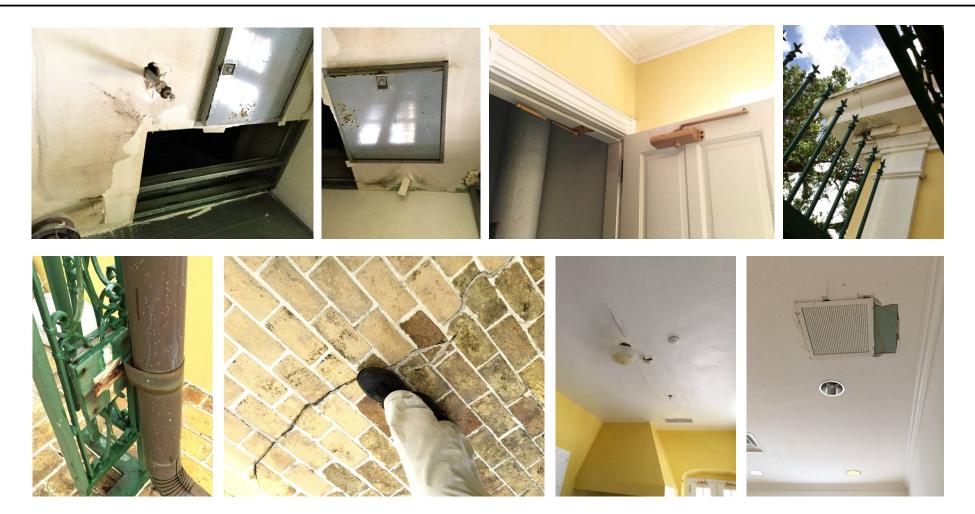
Facility Name	Arcintecture	Structure	Mechanical/Fitmbing	Security	File Protection	
Government House, St. Croix, Christiansted	Exterior: Overall minor damage. Roofing-Portion of gutter and downspout drainage system. Resealing of all roof corrugated metal deck laps joints. HAZMAT materials verification recommended prior to any scope of work performance. Wall(s)-Damage requires crack and stucco repairs (chimney and walls). Repainting of exterior facade/ walls areas required. Interior moderate damages. Plaster, wood trim and paint damaged by water penetration, some mold is present.	Moderate Damage. Exterior cracks to column capitals, Exterior walkway slab cracks due to possible foundation settlements, ceiling damage, and minor wall cracking at third floor kitchen wall.	Mechanical equipment has minor to significant damage. exterior louvers sustained a majotiry of the damage ranging from blockage and screen damage to bent louver blades. Exterior condensing units had moderate coil damage. Plumbing equipment suffered moderate to catastrophic damage. Roof drains and gutter systems were significantly impacted causing leaks and other damage. Corrosion on plumbing fixtures was also noted in a few areas.	Electrical conduits and wiring of branch circuits have been affected due to roof leaking. One of two generator is not operational. The elevator is not working. Almost half of all exterior lighting fixtures have been affected.	Fire alarm system damaged. Fire alarm devices suffered moderate to catastophic damage in the Inner Courtyard.	Severe but repairable - Remediation efforts that will be neccesary as a result of roof damage will required replacement of a significant portion of all partitions and building systems within the building.

\$18M

AECOM

Government House, St. Croix, Christiansted

AECOM



Government House, St. Croix, Christiansted

ΑΞϹΟΜ



Government House, St. Croix, Fredricksted

315 Prince Street, Frederiksted, St. Croix, 00840

Before Storm

Major Damage Rating

1799

Year Built

Non-Flood: Wind Driven, Roof Damage, Water Intrusion.

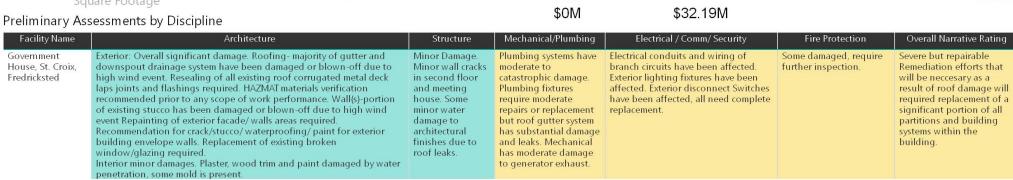
Disaster Damage

Brick and stone masonry construction with plaster/stucc...

Building Materials

35.770

Square Footage





\$28,616,000



Total Cost to Repair After Storm

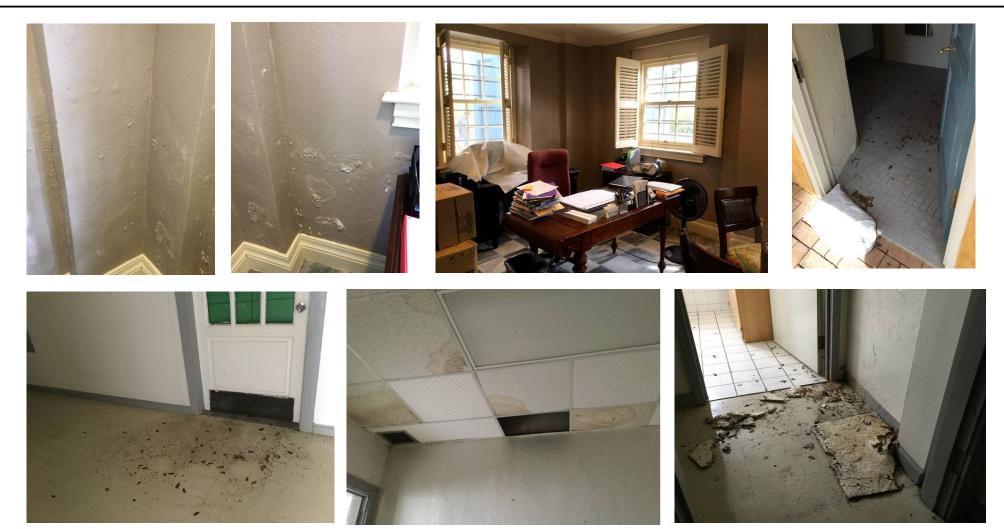
\$7M



AECOM

Government House, St. Croix, Fredricksted

AECOM



Government House, St. Croix, Fredricksted

ΑΞϹΟΜ



Government House, St. John

Henry Samual street, Cruz Bay, St. John, 00831

Before Storm

Catastrophic

1825

Year Built

Non-Flood: Wind Driven, Roof Damage, Water Intrusion.

Disaster Damage

Brick and stone masonry construction with plaster/stucc...

Building Materials

4,776

Square Footage

Preliminary Assessments by Discipline



\$3,820,800 \$1,743,644 Repair Cost Replacement Cost \$477,600 \$477,600 Swing Space Cost Swing Space Cost \$348,729 \$2,569,972 \$4,298,400 Total Cost to Repair Total Cost of Replace... Cost to Repair vs. Cost of Replacement \$3M



\$3M

After Storm



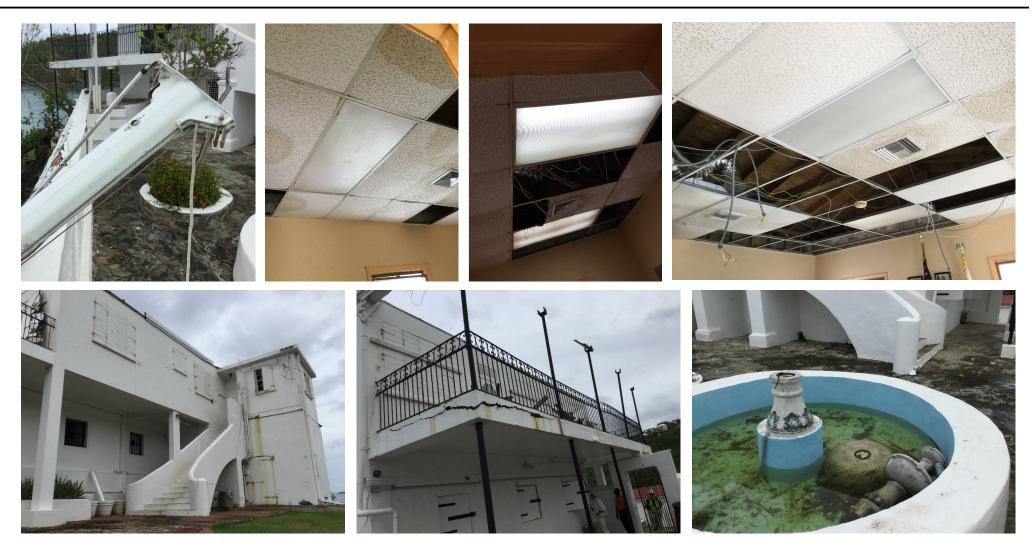
AECOM

\$4.30M

Facility Name	Architecture	Structure	Mechanical/Plumbing	Electrical / Comm/ Security	Fire Protection	Overall Narrative Rating
Government House, St. John	Exterior: Overall catastrohic damage. Roofing-Entire roof system at Main Bldg. including gutter and downspouts and structural wood T & G/ beam assembly failure in high wind event. Wall(s)-portion of existing stucco has been damaged or blown-off. Repainting of exterior facade/ walls areas required. Recommendation for crack/stucco/ waterproofing/ paint for exterior building envelope walls and concrete spalling conditions. Replacement of existing broken window/glazing required.Extensive water damage to all exterior finishes. Overall minor damage. At Secondary Bldg. portion of gutter and downspout drainage system. Resealing of all roof corrugated metal deck laps joints. HAZMAT materials verification recommended prior to any scope of work performance. Wall(s)-Damage requires crack and stucco repairs (chimney and walls).	catastrophic damage in some items.	significant to catastrophic damage, most split systems were destroyed or damaged. Some ductwork damage was also documented. Plumbing systems experienced significant to catastrophic damage. Roof gutter system was completely destroyed on the main building and the sewage	have been severaly damaged. Half of interior lighting has been severaly damaged.	damaged.	Severe to catastrophic Remediation efforts that will be neccesary as a result of roof damage will required replacement of a significant portion of all partitions and building systems within the building.

Government House, St. John

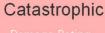
ΑΞϹΟΜ



Government House, St. Thomas

21-22 Kongens Gade, Charlotte Amalie, St Thomas 00804

Before Storm



1867

Year Built

Non-Flood: Wind Driven, Roof Damage, Water Intrusion.

Disaster Damage

Brick and stone rubble masonry, stucco finish, corrugated metal...

Building Materials

14.600

Square Footage

Preliminary Assessments by Discipline

Facility Name	Architecture	Structure	Mechanical/Plumbing	Electrical / Comm/ Security	Fire Protection	Overall Narrative Rating
Government	Exterior: Overall catastrohic damage. Roofing-Main Bldg. roof and	Moderate Damage.	Mechanical equipment	Almost half of interior lighting has	The Fire alarm	Catastrophic
House, St.	accessories damaged during high wind event. watertight intergity	- Roof over addition portion	suffered minor to	been severaly damaged, so for this	System is	Remediation efforts
Thomas	compromised roof assembly system recommentatiom for replacement.	collapsed. Entire roof structure	catastrophic damage.	resport it must be considered	operational	that will be neccesary as
	Wall(s)-Repainting of exterior facade/ walls areas required.	to be replaced there.	Minor damage was an	catastrophic damage. The exterior	but has been	a result of roof damage
	Recommendation for crack/stucco/ waterproofing/ paint for exterior	- Water damage to ceilings. No	electrical connection	lighting is a total loss, catastrophic	partially	will required
	building envelope walls and concrete spalling condions. Replacement of	floor slab structural damage	at a unit and a	damage. Comm/Security systems	affected by	replacement of a
	existing broken window/glazing / shutters required. Extensive water	noticed.	number of units were	remain funtional, but have been	watter	significant portion of all
	damage to all exterior finishes. HAZMAT materials verification recommended	- Significant cracking in stair	completely destroyed	affected by water filtration. Even all	filtration.	partitions and building
	prior to any scope of work performance. Wall(s)-Damage requires crack and	brick wall. Needs repair.	and must be replaced.	electrical systems remain funtional, it		systems within the
	stucco repairs .	- Guard booth completely	Plumbing systems had	seems to be exceeded its useful life,		building.
	Plaster damaged or fallen off, wood trim and paint damaged by water	damage.	no obvious damage.	so we recommend the entire electrical		, in the second s
	penetration, mold in ballroom, water damage to wood floors, water	- site retaining wall to be	, , , , , , , , , , , , , , , , , , ,	system to be replaced.		



\$2,649,748 \$11,680,000 Repair Cost Replacement Cost \$1,460,000 \$1,460,000 Swing Space Cost Swing Space Cost \$529,950 FFE \$4,639,697 \$13,140,000 Total Cost to Repair Total Cost of Replace... Cost to Repair vs. Cost of Replacement \$5M



\$5M

After Storm

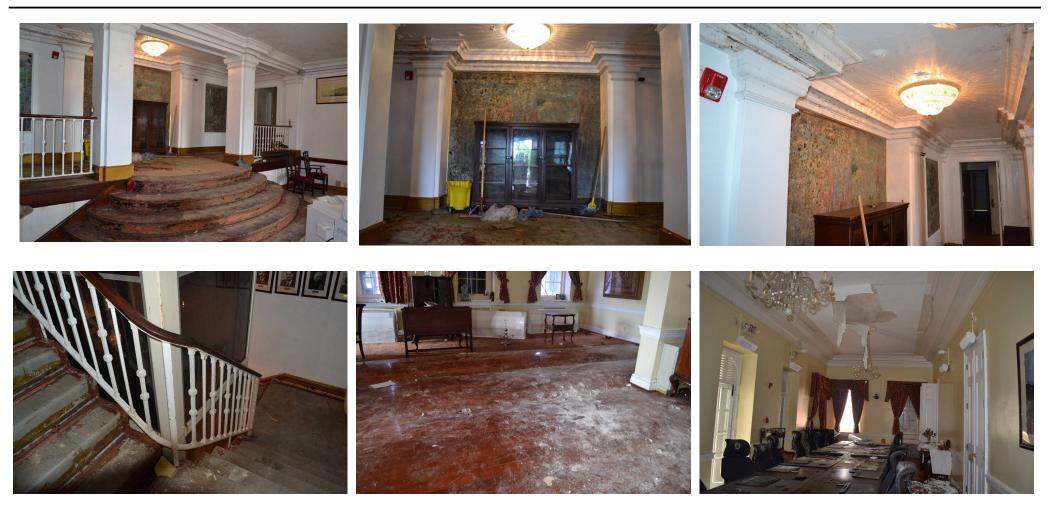


AECOM

\$13.14M

Government House, St. Thomas

ΑΞϹΟΜ



Office of the Governor's Finance and Communication Building

32-33 Kongens Gade, Charlotte Amalie, St Thomas 00804

Major

Damage Rating

1904

Year Built

Non-Flood: Wind Driven, Water Intrusion.

Disaster Damage

Brick and stone masonry construction with plaster/stucc...

Building Materials

8.000

Square Footage

Preliminary Assessments by Discipline



After Storm

\$6,400,000

Replacement Cost

\$800,000

Swing Space Cost

\$7,200,000

Cost to Repair vs. Cost of Replacement

\$3M

Total Cost of Replace...



\$7.20M

Facility Name	Architecture	Structure	Mechanical/Plumbing	Electrical / Comm/ Security	Fire Protection	Overall Narrative Rating
Office of the	Exterior: Overall Moderate damage. Roofing-	Moderate Damage.	Mechanical equipment suffered	Electrical conduits and	Some of the	Severe but repairable -
Governor's	Resealing of all existing roof systems including	- Warped wood flooring due to water	catastrophic damage, many outdoor	wiring of branch circuits	Fire alarm	Remediation efforts
Finance and	corrugated metal deck laps joints and flashings	infiltration.	condensing units are severely damaged	have been affected, requires	System has	that will be neccesary as
Communicatio	required. HAZMAT materials verification recommended	- Ceiling Damage.	with a few still operating but not full	further inspection. Almost	been	a result of water
n Building	prior to any scope of work performance. Wall(s)-	- 1st floor room exterior door and shutters	capacity. Mold has been noticed due to	half or more of exterior	affected.	intrusion will required
	Repainting of exterior facade/ walls areas required.	do not open due to possible water damage.	the AC systems not working properly or	lighting fixtures have been		replacement of a
	Recommendation for crack/stucco/ waterproofing/	Stair from 1st to 2nd floor have cracked	at all. Plumbing at main building	affected. Some interior		significant portion of all
	paint for exterior building envelope walls.	stringer due to possible settlement of	appears intact but plumbing to adjacent	lighting is affected.		partitions and building
	Interior-Plaster, wood trim and paint damaged by	supporting slab/foundation.	structures have moderate defficiencies,	Comm/Security and public		systems and eqipments
	water penetration, some mold is present.	- portion of retaining wall damaged by	lack of cold water at sinks and leaks.	address systems are not		within the building.

AECOM \$3M Total Cost to Repair

Office of the Governor's Finance and Communication Building

ΑΞϹΟΜ



Randall Doc James Racetrack

1 Havensight Way, St. Thomas, VI 00802

Before Storm



Damage Rating

16,000

Square Footage



\$4,471,150 Repair Cost

\$4,471,150 Total Cost to Repair \$4M **AECOM**

Total Cost to Repair

After Storm



Preliminary Assessments by Discipline

Facility Name	Architecture	Structure	Site_1	Mechanical/Plumbing	Electrical / Comm/ Security	Fire Protection	Overall Narrative Rating
Randall Doc James Racetrack	Minor to to Moderate Damage. Damage found at Horse Stable, Gate, Bleachers, and Press box.	, , , , , , , , , , , , , , , , , , ,	Minor Damage, Some debris is present. Chain link fencing needs to be replaced in several areas.	Not Applicable	Minor Damage, Satellite dish has been destroyed.	Not Applicable	Minor Damage to Canopy, Horse Stable, Gate, Bleachers, and Press box.

Randal Doc James Race Track



AECOM

Randal Doc James Race Track

