



U.S. Department
of Transportation

Federal Highway
Administration

Eastern Federal Lands
Highway Division

Final Construction Report

Project No.: PRA-VIIS 100(2)

Location: Virgin Island National Park

St. John, U.S. Virgin Islands

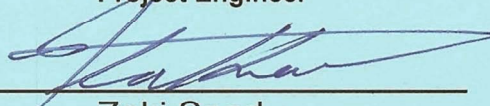
Description: Rehabilitation of roadway and parking area pavement,
drainage improvement, guardrail installation repair,
guardwall repair, and striping, construction of the "Cruz Bay/
Lind Point Overlook".

Submitted by:

Jerry Runyon
Project Engineer

Date

Approved by:


Zaki Saad
Construction Operations Engineer

7/17/2007
Date

Approved by:


for Thomas J. Scott, Jr.
Construction Engineer

7/17/07
Date

FINAL CONSTRUCTION REPORT

PROJECT PRA-VIIS 100(2) VIRGIN ISLAND NATIONAL PARK

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FINAL CONSTRUCTION REPORT

PROJECT PRA-VIIS 100(2) VIRGIN ISLAND NATIONAL PARK

I. PROJECT DESCRIPTION

- A. Project Number** - Project PRA-VIIS 100(2) was located in St. John, U.S. Virgin Islands.
- B. Description of Work** - This project consisted of rehabilitation of roadway and parking area pavement, drainage improvements, guardrail installation, guardwall repair, and striping, construction of the "Cruz Bay/Lind Point Overlook", traffic calming and safety improvements on Route 20 within the St. John Virgin Islands National Park.
- C. Environmental Considerations** - The Federal Highway Administration (FHWA) determined that the project met the requirements of a Class II Action (Categorical Exclusion) under the National Environmental Policy Act (NEPA) of 1969, Letter dated May 17, 2004. The U.S. Virgin Islands Department of Planning and Natural Resources, Division of Coastal Zone Management issued an approval dated January 30, 2003, and the project was also permitted by Department of the Army, Jacksonville District Corps of Engineers under Permit Number SAJ-2004-4032 (NW-JCM).

II. PROJECT DATA

- A. Specifications** - "Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-96"
- B. Termini** -

Route 20 Various Sites (1,2,3,4,5,6,7,9,10,11,12,13, K1, K2a&b, M, N, O, P, Q, R, S & T) from the Virgin Islands National Park Service Maintenance Yard Entrance in Cruz Bay to the Intersection with Route 10.
- C. Length** -

Route 20 (North Shore Road) was approximately 7.3 miles in length. The above road rehabilitation work sites totaled 1.91 miles.

D. Width –

One or two, 9-foot travel lanes with paved shoulders of varying width.

E. Pavement Structure –

For areas with the 12-inches depth geogrid placement, 8 inches aggregate base, grading C and 4-6 inches of HACP (HACP), class B, grading C. For all other areas, except the parking area and the Main Road sites – an 8 inches aggregate base, grading C and 5-6 inches of HACP class B, grading C.

For Hawksnest Parking area site– overlay with 1.5 - 2.5 inches of HACP, class B, grading E.

For the Main Road – in the west bound lane along the waterway – 8 inches aggregate base, 4 inches of HACP, class B, grading C and 1.5 inches of HACP class B, grading E. In the east bound lane – 2- 4 inches of HACP class B, grading E overlay of existing pavement left in place.

F. Structures –

At the Cruz Bay/Lind Point Overlook site, a Reinforced Concrete Wall with Stone Masonry Facing was constructed.

G. Contract Number and Date –

DTFH71-05-C-00017 – May 24, 2005

H. Contracting Officers –

Melisa L. Ridenour	Division Engineer
Donald W. Miller	Director, Project Delivery
Wanda A. Peffer	Contracting Officer
Thomas J. Scott	Construction Engineer
Zaki M. Saad	Construction Operations Engineer

I. Contract Bid Amount -	\$ 2,859,813.51
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J. Engineer's Estimate -	\$2,570,000.00
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K. Final Contract Amount -	\$2,804,571.45
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L. Contract Time –

Date of Award:	May 24, 2005
Notice to Proceed:	July 11, 2005
Original Completion Date:	October 18, 2006
Extensions Granted:	20 calendar days
Revised Completion Date:	November 7, 2006
Substantial Completion Date:	October 3, 2006
Date of Final Completion:	November 6, 2006
Liquidated Damages Accessed	None

M. Contractor –

Island Roads Construction
 6501 Red Hook Plaza, Suite 201
 St. Thomas, VI 00802

N. Subcontractors –

Captain Carpentry Construction
 St. Thomas, VI 00801

Place concrete retaining wall \$165,000.00

Lucien George Construction
 P O Box 1005

St. Thomas, VI 00801
 Install rubble (curb, median, and waterway) \$119,000.00

Majestic Construction, Inc,
 P.O. Box 78

St. John, VI 00831
 Construct waterways – Concrete- \$10,800.00

O. Construction Engineering Costs –

Total Costs - \$ 338,855.00

Percentage of Final Contract Amount - 12.08%

P. Maintaining Agency –

National Park Service – St. John, U.S. Virgin Islands

III. Construction

A. Materials –

Item 20701DD, Earthwork Geotextile, Type IV-D

Mirafi 600X manufactured by Mirafi,

Supplier - JM Caribbean Distributors, Inc,
MSC-443 Winston Churchill Ave #138,
San Juan, PR 00926-6023

Item 25303, Gabions, Galvanized or Aluminized Coated

Maccaferri Gabion Baskets, Galvanized Coated manufactured by Maccaferri

Supplier - Raymond Champana,
Box 20956
San Juan, PR 00928

Item 25803, Reinforced Concrete Retaining Wall

Class of Concrete: A (AE) materials used were supplied by two sources;

Supplier: St. Thomas Concrete, Inc,
P.O. Box 7368,
St. Thomas, VI 00801

Mix Requirements: Minimum Strength – 4000 pounds per square inch (psi)
in 28 days
Minimum Cement Content – 611 pounds per cubic yard (pcy)
Maximum Water/Cement Ratio – 0.4
Maximum Slump – 4.0 inches
Minimum Air Content – 5.0 percent

Portland Cement:	AASHTO M85, Type Cemento Caribe Puerto Cumarebo, Venezuela	650 pcy
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Fine Aggregate:	#8 Brookman Quarry V.I Cement and Aggregate Products St. Thomas, VI 00801	1050 pcy
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Clay lumps and/or
friable particles – 0.2 percent
Coal and lignite – 0.02 percent
Organic impurities – Plate 1
Passing 75 μ m sieve – 0.9 percent
Fineness Modulus – 3.39
Bulk Sp/Gr at
Saturated Surface Dry (SSD) – 2.67
Sodium Sulfate Soundness – 0.24 percent
Absorption – 2.73 percent

Course Aggregate:	#57 Brookman Quarry V.I Cement and Aggregate Products, Inc. St. Thomas, VI 00801	1300 pcy
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Clay lumps and/or
friable particles – 0.2 percent
Coal and lignite – 0.0 percent
SSD Bulk Sp/Gr – 2.69
LA Abrasion, grading B – 13 percent
Sodium Sulfate Soundness – 0.4 percent

Water:	Brookman Quarry	281 pcy
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Air Entrainment:	MB AE 90 (AASHTO M-154) Master Builders Cleveland, OH	1.1 ounces per cubic yard
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Water Reducer:	Polyheed RI Master Builders Cleveland, OH	3 ounces per cubic yard
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Water Reducer: High range	Rheobuild 1000 Master Builder's Cleveland, OH	11 ounces per cubic yard
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Retarder:	Pozzolith 981 Master Builder's Cleveland, OH	3 ounces per cubic yard
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Average Test Results: Slump = 3.75 inches
Air content = 5.8 percent
Temperature = 79° F
28-day cylinder breaks = 4500 psi

Steel Reinforcement supplied by MSI, 8 Crown Bay, St. Thomas, VI 00802

Item 26001, Geosynthetic Reinforcement

Mirafi Miragrid 7XT manufactured by Mirafi

Supplier: JM Caribbean Distributors Inc.,
MSC-443 Winston Churchill Ave #138,
San Juan, PR 00926-6023.

Item 30101Z, Aggregate Base, Grading C or D

Supplier: Devcon Materials,
Estate Mariendahl Quarry
St. Thomas, VI

Material: Crushed Aggregate – Devcon Materials Quarry, St. Thomas

Approved Job Mix Design:

<u>Sieves</u>	<u>Target Value (Percent Passing)</u>	<u>Allowable Deviation (Percent)</u>	<u>Specification (Percent Passing)</u>
1 inch	100	-3	100
3/8 inch	59	+/-5	54-64
#4 Sieve	34	+/-6	28-40
#40 Sieve	11	+/-4	7-15
#200 Sieve	6.2	+/-3	3.2-9.2

Aggregate Properties:

Maximum Dry Density:	134.6 pounds per cubic foot (pcf)
Optimum Moisture Content:	6.4 percent
Bulk Specific Gravity (Sp/Gr):	2.83
Sodium Sulfate Soundness:	5.9 percent
LA Abrasion:	22 percent wear
Fractured Faces:	93.8 percent
Liquid Limit:	24
Plasticity Index:	Non-plastic
California Bearing Ratio:	185 percent

Item 40101BC, HACP, Class B, Grading C

The mix, identified as Class B, Grading C

Asphalt Binder Grade and Source: PG 70-22,
Sargent Trading Ltd,
POB CB 11296,
Nassau, Bahamas, Nassau New Providence

Asphalt mix Properties:

Design Asphalt content	5.3%
Theoretical Maximum Density	151.6 lbs/ft ³
Average Field Density	146.3 lbs/ft ³
VMA	16.7
Stability	2077 lbs.
Flow	12.2
Air Voids	4.2
D/B	0.98
G _{sb}	2.604

Aggregate Data

Cold Feed Proportions	Description	Source
55%	5/8 inch all in	Devcon Quarry, St. Thomas
35%	Man. Sand	Devcon Quarry, St. Thomas
10%	Nat. Sand	

**Gradation Target Values and Allowable Ranges
(% Passing by Weight)**

Sieve Size	TV	Allowable Deviation	Specification
1 inch	100		100
¾ inch	100		97-100
½ inch	97	± 5	90-100
3/8 inch	87	± 6	81-96
# 4	71	± 7	64-78
# 8	45	± 5	40-50
#30	21	± 4	17-25
#50	13	± 3	10-16
#200	3.6	±2	1.6-5.6

Item 61701H, Guardrail System SBTB

Manufacturer and supplier: Cor-Ten Company
111 State Street, Knoxville, TN 37902

Item 63613, Traffic Detector System

Manufacturer: Diamond Traffic Products,

Supplier: Diamond Traffic Products,
P.O. Box 1455
Oakridge, OR 97463

B. Experimental or New Features -

None

C. Changes and Problems -

1. Changes –

Contract Modification (CM) No. 0001 – This CM adjusted the quantities overruns/underruns for the contract at job completion and extended the contract time. These adjustments resulted in a net decrease of \$55,242.06. This CM had an affect on the contract time by extending the completion date to November 7, 2006, as a result of a request by NPS to use remaining funds for additional pavement rehabilitation work between the Caneel Bay Overlook and Cruz Bay.

Net contract decrease = (\$55,242.06) Contract time increase = 20 calendar days.

Significant Overruns and Underruns

Item 20101, Clearing and Grubbing

The original contract quantity of 0.10 acres was underestimated by the Engineer's calculations; the final quantity was 0.20, an overrun of 0.10 acre or 100.00 percent.

Item 20301E, Removal of Headwalls

The original contract quantity was 1.00 each. Existing field conditions warranted removal of additional headwalls for replacement at Sites 9 & 13. The final quantity was 3.00 each, an overrun of 2.00 each or 200.00 percent.

Item 20302H, Removal of Pipe Culverts

The original contract quantity was 30.00 linear feet. Existing field conditions warranted removal of additional deteriorated pipe culverts at Sites 3 and 9. The final quantity was 104 linear feet, an overrun of 74 linear feet or 246.67 percent.

Item 20302UB, Removal of Portland Cement Concrete Paved Waterway

The original contract quantity was 250.00 linear feet. Existing field conditions warranted removal of additional concrete paved waterways for replacement at Sites 1, 11 & 13; the final quantity was 304 linear feet or 21.60 percent.

Item 20303AGD, Removal of Stone Median (Rubble Median)

The original contract quantity of 35.00 square yards was underestimated by the Engineer's Calculations. Due to the actual lengths and widths of the existing rubble median, the final quantity was 43.79 square yards, an overrun of 8.79 square yards or 25.11 percent.

Item 20307, Sawcutting Pavement

The original contract quantity was 5,800.00 linear feet. Existing field conditions warranted removal of additional pavement for rehabilitation at added sites between Original Site 2 and Cruz Bay. The final quantity was 7,224.00, an overrun of 1424.00 linear feet or 24.55 percent.

Item 20401 Roadway Excavation (Penn Point, Site 11)

The original contract quantity of 550.00 cubic yards was underestimated by the Engineer's estimate. The existing site conditions required more roadway excavation than anticipated. The final quantity was 791.00 cubic yards, an overrun of 241.70 cubic yards or 43.95 percent.

Item 20801, Structural Excavation

The original contract quantity of 550.00 cubic yards was underestimated by the Engineer's estimate. Due to the actual field conditions the final quantity was 900.00 cubic yards, an overrun of 350.00 cubic yards or 63.64 percent.

Item 20803, Structural Backfill

The original contract quantity of 500.00 cubic yards was underestimated by the Engineer's estimate. Due to the actual field conditions the final quantity was 730.00 cubic yards, an overrun of 230.00 cubic yards or 46.00 percent.

Item 30101Z, Aggregate Base, Grading C or D

The original contract quantity was 3,100.00 tons. Existing field conditions warranted removal of additional pavement for rehabilitation at added sites between Original Site 2 and Cruz Bay. The final quantity was 3,832.84 tons, an overrun of 732.84 tons or 23.64 percent.

Item 40101BC, HACP, Class B, Grading C

The original contract quantity was 1,160.00 tons. Existing field conditions warranted removal of additional pavement for rehabilitation at added sites between Original Site 2 and Cruz Bay, and changed conditions substituted the BC mix for the BED mix. The final quantity was 2061.48 tons, an overrun of 901.48 tons or 77.71 percent.

Item 60101, Concrete

The original contract quantity of 1.00 cubic yard was underestimated by the Engineer's estimate. The existing site conditions required more concrete to be placed than anticipated. The final quantity was 3.00 cubic yards; an overrun of 2.00 cubic yards or 200.00 percent.

Item 60201N, 30-Inch Pipe Culvert

The original contract quantity was 30.00 linear feet. Existing field conditions warranted replacement of additional deteriorated pipe culverts at Sites 3 and 9. The final quantity was 104.00 linear feet, an overrun of 74.00 linear feet or 246.67 percent.

Item 61701H, Guardrail System, SBTB

The original contract quantity was 115.00 linear feet. Existing field conditions warranted replacement of additional guardrail at Site 11. The final quantity was 260.00 linear feet, an overrun of 145.00 linear feet or 126.09 percent.

Item 62007AN, Stone Masonry Headwall for 30 Inch Pipe Culvert

The original contract quantity was 1.00 each. Existing field conditions warranted replacement of additional headwall at Site 9. The final quantity was 2.00 each, an overrun of 1 each or 100.00 percent.

Item 62509, Turf Establishment

The original contract quantity was 0.70 acres. Existing field conditions warranted additional turf establishment at added sites between Original Site 2 and Cruz Bay. The final quantity was 0.87 acres, an overrun of 0.17 acres or 24.29 percent.

Item 62510A, Seed (Supplemental Application)

The original contract quantity was 0.70 acres. Existing field conditions warranted additional seed at added sites between Original Site 2 and Cruz Bay. The final quantity was 0.87 acres, an overrun of 0.17 acres or 24.29 percent.

The items listed below had minor quantity overruns due to matching field conditions or variations in actual field measurement as compared to the original engineer's estimate, and were less than 15 percent or \$25,000.00.

25803, 60101D, 60903BY, and 62014AC

Item 15703, Silt Fence

The original contract quantity of 3,000.00 linear feet was overestimated by the Engineer's calculations or the material was not needed. The final quantity in place was 1,060.475 linear feet, an underrun of 1,939.525 linear feet or 64.65 percent.

Item 15716C, Inlet Protection, Type C

The original contract quantity of 2.00 each was overestimated by the Engineer's calculations or was not needed. The final quantity in place was 1.00 each, an underrun of 1.00 each or 50.00 percent.

Item 15742, Filter Berm

The original contract quantity of 3000.00 linear feet was overestimated by the Engineer's calculations or the material was not needed. The final quantity in place was 30.00 linear feet, an underrun of 2970.00 linear feet or 99.00 percent.

Item 20201, Selective Clearing

The original contract quantity of 1.00 acre was overestimated by the Engineer's calculations. The final quantity was 0.16 acre, an underrun of 0.84 acre or 84.00 percent.

Item 20301AE, Removal of Frame and Grate

The original contract quantity of 19 each was not needed or used. Changed field conditions deleted the need to remove at Site 13. The final quantity was 2.00 each, an underrun of 17.00 each or 89.47 percent.

Item 20302RD, Removal of Stoned Curb (Rubble Curb)

The original contract quantity of 500.00 linear feet was overestimated by the Engineer's calculations. The final quantity was 366.00 linear feet, an underrun of 134.00 linear feet or 26.80 percent.

Item 20302UD, Removal of Stoned Paved Waterway

Due to changes in field conditions and the deletion of site 13, the original contract quantity of 800.00 linear feet was not used or needed. The final quantity was 317.00 linear feet, an underrun of 483.00 linear feet or 60.38 percent.

Item 20303PA, Removal of Asphalt Pavement

The original contract quantity of 10,000.00 square yards was overestimated by the Engineer's calculations. The final quantity was 8,365.18 square yards, an underrun of 1,634.820 square yards or 16.35 percent.

Item 20401, Roadway Excavation (Sites 1, 2, 3, 4, 5, 6, 7, 9, 12, 13, & 14)

The original contract quantity of 4,800.00 cubic yards was not used or needed. Existing field conditions revised the depth of road rehabilitation excavation at various sites. The final quantity of roadway excavation was 3,510.00 cubic yards, an underrun of 1290.00 cubic yards or 26.88 percent.

Item 20701DD, Earthwork Geotextile, Type IV-D

The original contract quantity of 4,900.00 square yards was not used or needed. Existing field conditions revised the depth of road rehabilitation excavation, therefore reducing the need for Geotextile at various Sites. The final quantity of Geotextile was 1,717.235 square yards, an underrun of 3,182.765 square yards or 64.95 percent

Item 25101C, Placed Rip Rap, Class 3

The original contract quantity of 15.00 cubic yards was overestimated by the Engineer's calculations. The final quantity was 6.00 cubic yards, an underrun of 9.00 cubic yards or 60.00 percent.

25111, Boulders

The original contract quantity of 100.00 each was not used or needed. Changed field conditions deleted the need for placement at Site 10. The final quantity was 44 each, an underrun of 56.00 each or 56.00 percent.

25803, Gabions, Galvanized or Aluminized Coated

The original contract quantity of 200.00 cubic yards was overestimated by the Engineer's calculations. The final quantity was 51.51 cubic yards, an underrun of 148.49 cubic yards or 74.25 percent.

26001, Geosynthetic Reinforcement

Some of the original contract quantity of 21,000.00 square yards was not used or needed. Existing field conditions revised the depth of road rehabilitation excavation, therefore reducing the need for Geosynthetic Reinforcement at various sites. The final quantity of Geosynthetic Reinforcement was 14,377.51 square yards, an underrun of 6622.49 square yards or 31.54 percent

30501, Aggregate-Topsoil Course

The original contract quantity of 225.00 tons was not used or needed. Changed field conditions deleted the need for placement on the shoulders. Aggregate base was used on the shoulders then mixed with topsoil. The final quantity in place was 0.00, an underrun of 225.00 tons or 100.00 percent.

40101BED, HACP, Class B, Grading E, Type 4 Pavement Smoothness

The original contract quantity was 580.00 tons. Changed conditions substituted the BC mix for the BED mix. The final quantity was 345.71 tons, an underrun of 234.29 tons or 40.39 percent.

41404, Crack Cleaning and Sealing

The original contract quantity of 22,000.00 linear feet was not used or needed. Changed field conditions deleted the need for placement along the existing waterways. The final quantity was 0.00 linear feet, an underrun of 22,000.00 linear feet or 100 percent.

60409FA, Metal Frame and Grate, Type 6A (-6)

The original contract quantity of 3.00 each was not used or needed. Existing field conditions deleted the need for placement. The final quantity was 0.00 linear feet, an underrun of 3.00 each or 100.00 percent.

60801C, Paved Waterway, Type 3

The original contract quantity of 300.00 square yards was not used or needed. Changed field conditions deleted the need for placement on Site 13. The final quantity in place was 117.00 square yards, an underrun of 183.00 square yards or 61.00 percent.

62005, Remove and Reset Stone Masonry Guardwall

The original contract quantity of 45.00 linear feet was overestimated by the Engineer's calculations. The final quantity was 24.50 linear feet, an underrun of 20.5 linear feet or 45.56 percent.

62403, Furnishing and Placing Topsoil

The original contract quantity of 170.00 cubic yards was overestimated by the Engineer's calculations. The final quantity was 137.00 cubic yards, an underrun of 33.00 cubic yards or 19.41 percent.

62601CXFC, Crescentia Linearifolia, Black Callabash, 3 gallon Container, Container Grown

The original contract quantity of 2.00 each was not used or needed. Changed field conditions deleted the need for placement on Site 5. The final quantity was 0.00 each, an underrun of 2.00 each or 100.00 percent.

62901B, Erosion Control Mat, Type II

The original contract quantity of 50.00 square yards was overestimated by the Engineer's calculations. The final quantity was 34.00 square yards, an underrun of 16.00 square yards or 32.00 percent

63304CC, Signs, Aluminum Panels, Type 3 Sheeting

Some of the original contract quantity of 37.00 square feet was not used or needed. Changed field conditions deleted the need for placement on Sites 5 and 6. The final quantity in place was 10.00 square feet, an underrun of 27.00 square feet or 72.97 percent.

63401AA, Pavement Markings, Type A Solid

Some of the original contract quantity of 10,400.00 linear feet was not used or needed. Changed field conditions deleted the need for placement on Sites 2, 4, 7, 9, 12, 13 & 14. The final quantity in place was 4627.00 linear feet, an underrun of 5773.00 linear feet or 55.51 percent.

63401AB, Pavement Markings, Type A Broken

The original contract quantity of 100.00 linear feet was overestimated by the Engineer's calculations. The final quantity was 75.00 linear feet, an underrun of 25.00 linear feet or 25.00 percent.

63402, Pavement Markings

The original contract quantity of 235.00 square feet was overestimated by the Engineer's calculations. The final quantity was 171.50 square feet, an underrun of 63.50 square feet or 27.02 percent.

The items listed below had minor quantity underruns due to matching field conditions or variations in actual field measurement as compared to the original engineer's estimate, and were less than 15 percent or \$25,000.00:

41301, 60909A, 61503C, 62901A

2. Problems –

None

- D. Recommendations –** At the Kings Hill Site, the future phase of work should include provisions for additional pavement rehabilitation, replacement of inlets to include bicycle safe grates, and other drainage improvements. At the Switch Back, a safety issue with trucks reversing direction and backing down the hill to maneuver through the intersection toward Annaberg should be investigated (Solution considerations include widening intersection for truck maneuvers, and placement of warning signs).

E. Claims -

None

IV. CONSTRUCTION ENGINEERING

A. Project Personnel –

Jerry O. Runyon – Project Engineer, FHWA

B. Contract Inspection –

None

C. Other Contacts -

Mr. Lucious Sims and Mr. Rafe Boulon – NPS (St. John, U.S. Virgin Islands)

D. Partnering -

Informal partnering was successfully implemented on this project, and a good relationship was maintained between all parties.

NPS NO.	REG	STATE	PROJECT	TOTAL NO. SHEETS
161	SE	VI	PRA-VIS 100(2)	1A
41,912				92

UNITED STATES DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

VIRGIN ISLANDS NATIONAL PARK

PRA-VIS 100(2)

PLANS FOR PROPOSED

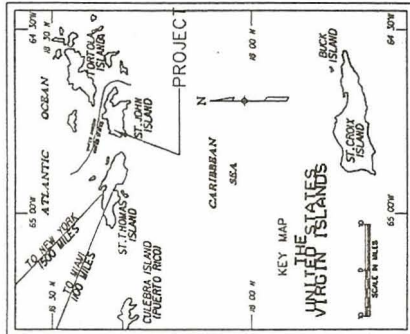
PROJECT PRA-VIS 100(2)

REHABILITATION OF NORTH SHORE ROAD
AND CONSTRUCTION OF CRUZ BAY OVERLOOK

ST. JOHN

U.S. VIRGIN ISLANDS

PROJECT PRA-VIS 100(2)

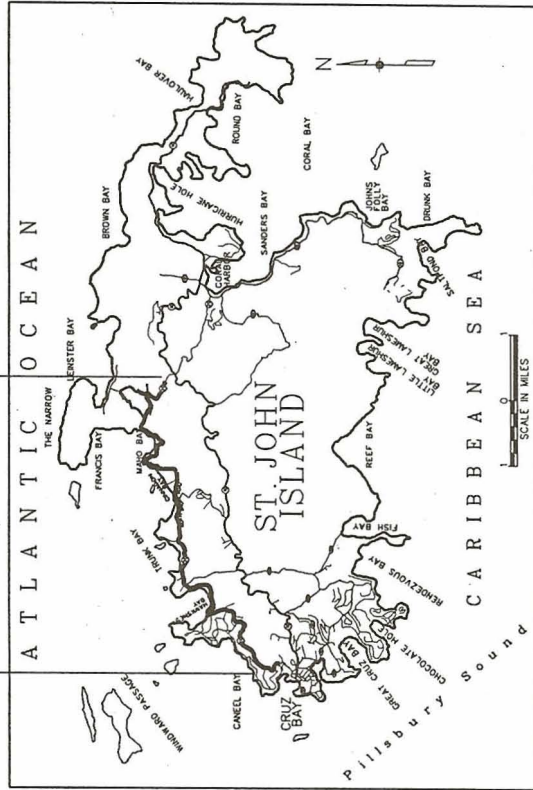


CONVENTIONAL SIGNS

EXISTING	PROPOSED
PROJECTED CENTERLINE	PIPE CULVERT WITH INLET
STATE CENTERLINE	SINGLE OR MULTIPLE PIPE CULVERT WITH HEADWALL AND WINGWALL
COUNTY LINE	PIPE CULVERT IN PROFILE
FOREST/PARK BOUNDARY	SINGLE OR MULTIPLE BOX CULVERT WITH HEADWALL AND WINGWALL
PROPERTY LINE	BOX CULVERT IN PROFILE
EXISTING ROADWAY	RETAINING WALL
	CONSTRUCTION LIMITS TOP OF CUT TOE OF FILL

DESIGN DESIGNATION
ADT120031
ADT120032
ADT120033
ADT120034
ADT120035
ADT120036
ADT120037
ADT120038
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ADT120040
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ADT120099
ADT120100

SPECIFICATIONS:
"Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects", FP-96, English Units.



MILEAGE TABULATION:	MAINLINE (FT)	MISC AREAS (FT)
SITE 1	200	N/A
SITE 2	300	N/A
SITE 3	350	N/A
SITE 4	260	N/A
SITE 5	175	N/A
SITE 6	1540	N/A
SITE 7	800	N/A
SITE 8	800	N/A
SITE 9	800	N/A
SITE 10	800	N/A
SITE 11	800	N/A
SITE 12	800	N/A
SITE 13	800	N/A
SITE 14	800	N/A
SUBTOTAL	8340	812
TOTAL PROJECT LENGTH (MILES)	952	
TOTAL PROJECT LENGTH (MILES)	1733	

DESCRIPTION OF PROJECT

IMPROVEMENT: Rehabilitation of roadway and parking area, including construction of guardrail, drainage, and safety improvements.

FINAL PLANS

PLANS PREPARED BY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

SEPTEMBER 2004

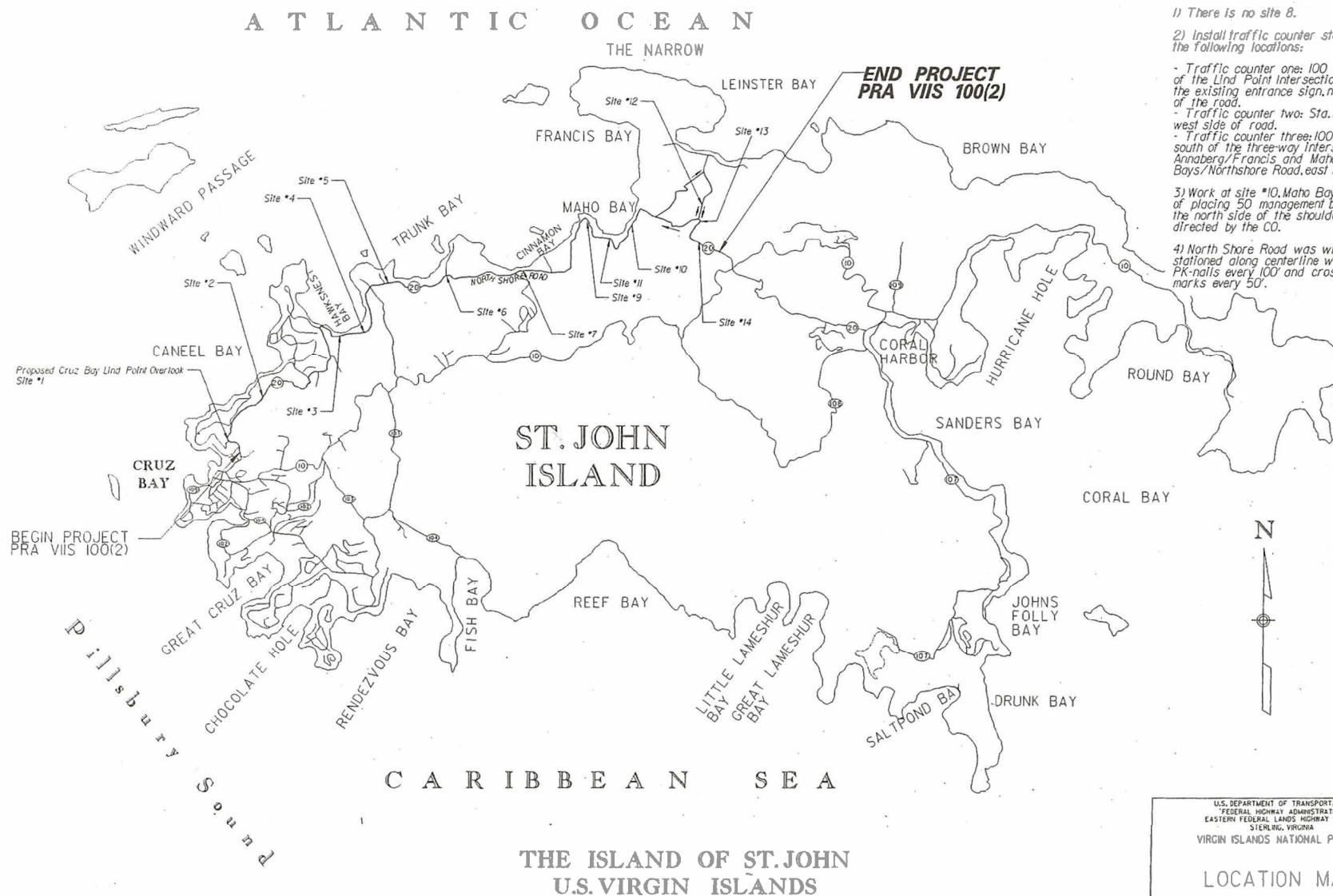
PMIS 054873/47596

PROJECT MANAGER	LEAD DESIGNERS
D. WEBER	B. RAYMOND

NPS FWS	REC	STATE	PROJECT	SHEET NO.
161 41,912	SE	VI	PRA-VIIS 100(2)	2A

Note:

- 1) There is no site 8.
- 2) Install traffic counter stations at the following locations:
 - Traffic counter one: 100 feet east of the Lind Point Intersection, near the existing entrance sign, north side of the road.
 - Traffic counter two: Sta. 133+00, west side of road.
 - Traffic counter three: 100 feet south of the three-way intersection for Annaberg/Francis and Maho Bays/Northshore Road, east side of road.
- 3) Work at site #10, Maho Bay, consists of placing 50 management boulders on the north side of the shoulder as directed by the CO.
- 4) North Shore Road was wheel stationed along centerline with PK-nails every 100' and cross marks every 50'.

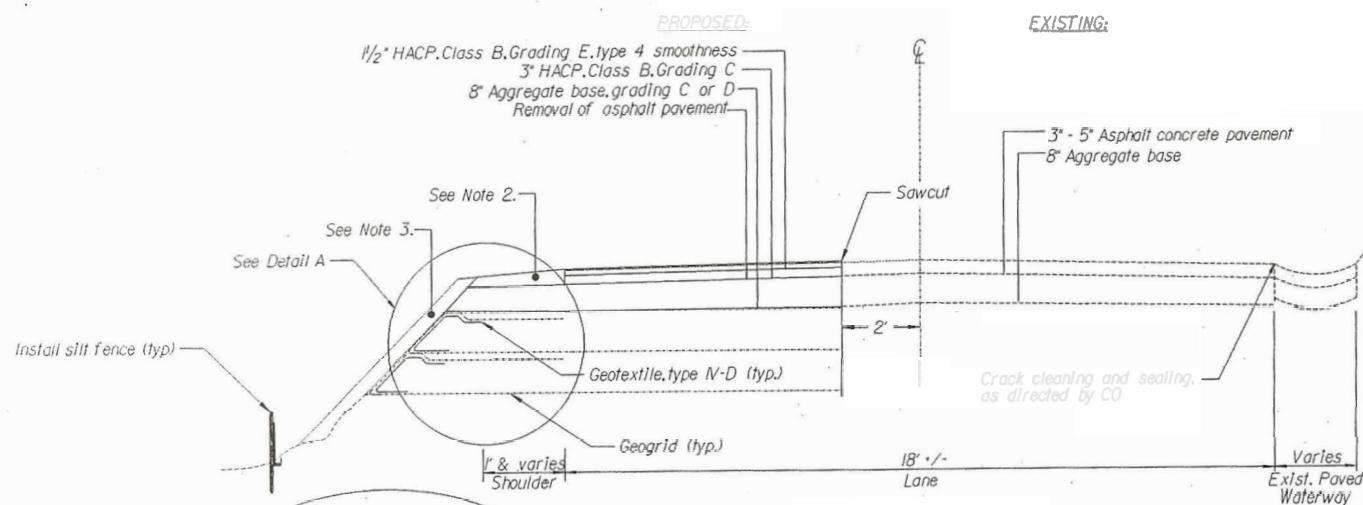


NOT TO SCALE

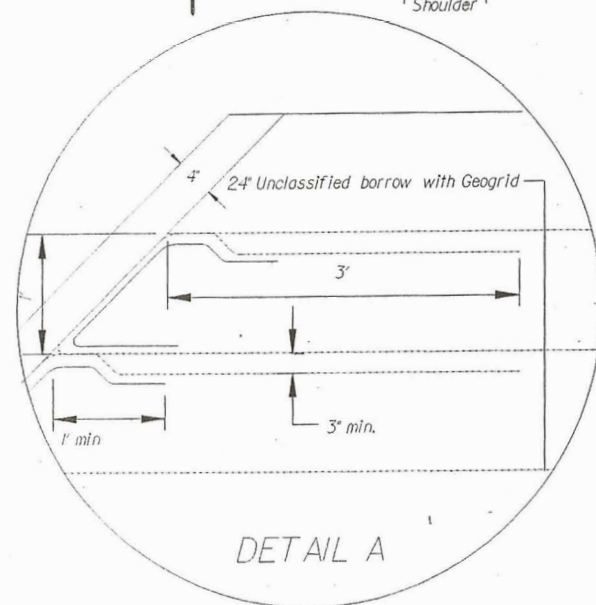
NPS NO.	REG	STATE	PROJECT	SHEET NO.
181 41,912	SE	VI	PRA-VIS 100(2)	3A

Notes:

1. Install geogrid reinforcement according to Section 260.
2. Match existing shoulder slope. Place $4\frac{1}{2}$ " of aggregate topsoil over 8" aggregate base on shoulders. Place seed and fertilizer and top with erosion control mat, type I per Detail G29 A. Seed during the seeding season from August 1-October 30 only. Water as directed in SCR Section 625.
3. Flush disturbed slopes with 4 inches topsoil, top with seed and fertilizer, cover with erosion control mat, type I and water. Water as directed in SCR Section 625. Taper topsoil below disturbed slopes to tie to existing ground and seed, fertilize, cover with mat, and water. See Detail 629-A for matting details on slopes.
4. Stripe centerline with solid yellow line in all areas where work is performed.



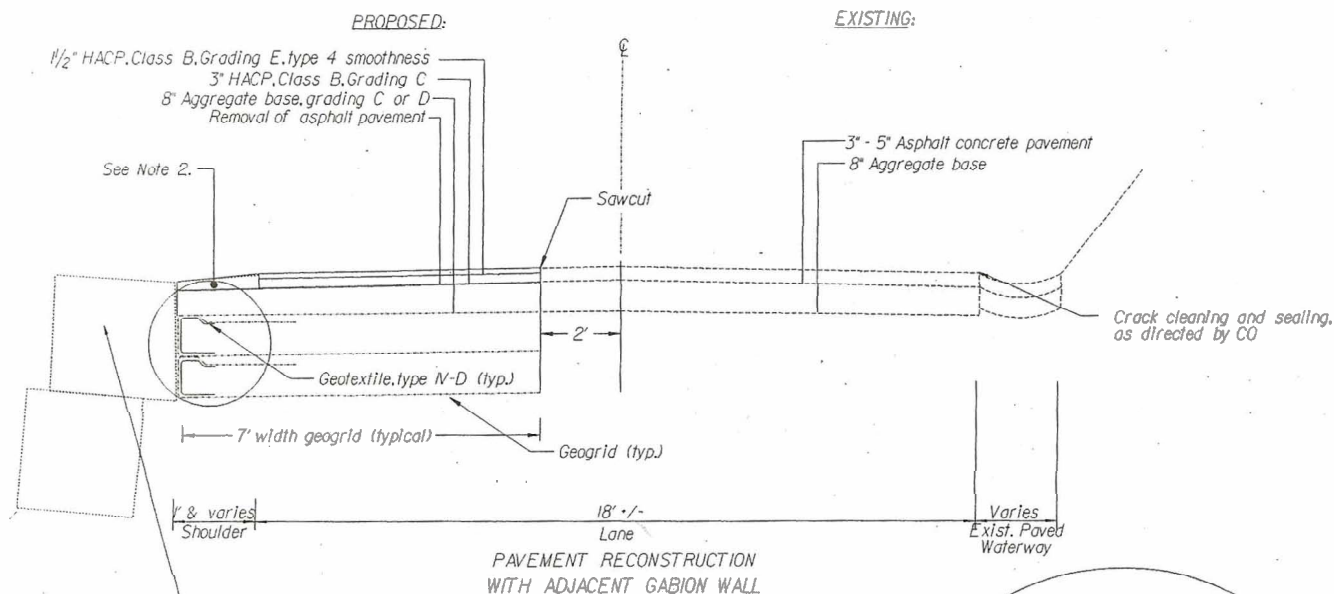
PAVEMENT RECONSTRUCTION
WITH ADJACENT SLOPE



Not to scale

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
STERLING, VIRGINIA
VIRGIN ISLANDS NATIONAL PARK
PAVEMENT RECONSTRUCTION
WITH ADJACENT SLOPE
TYPICAL SECTION

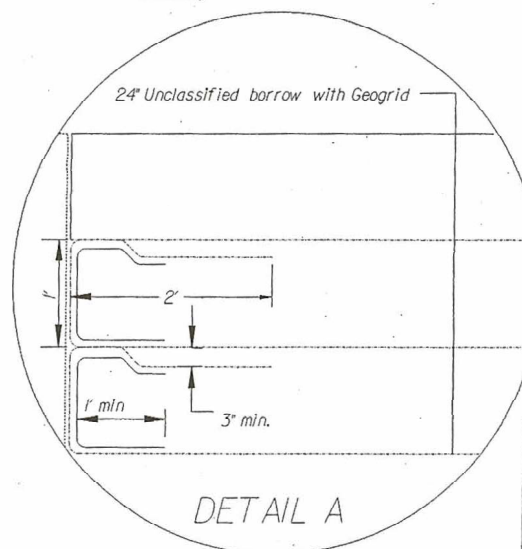
NPS NO.	REG	STATE	PROJECT	SHEET NO.
151 41,912	SE	VI	PRA-VIS 100(2)	4A



Existing 3' x 3' gabion basket
Replace top gabion baskets
if negatively battered or
as directed by CO. Reuse
stone from existing baskets.
See Detail 253-A for gabion
wall replacement baskets.

Notes:

1. Install geogrid reinforcement according to Section 260
2. Place 4 1/2" of aggregate topsoil over 8" aggregate base. Place seed and fertilizer and top with erosion control mat, type I per Detail 629-A. Apply seed only during the seeding season from August 1 to October 31. Water as directed in SCR Section 625.
3. Stripe centerline with solid yellow line in all areas where work is performed.



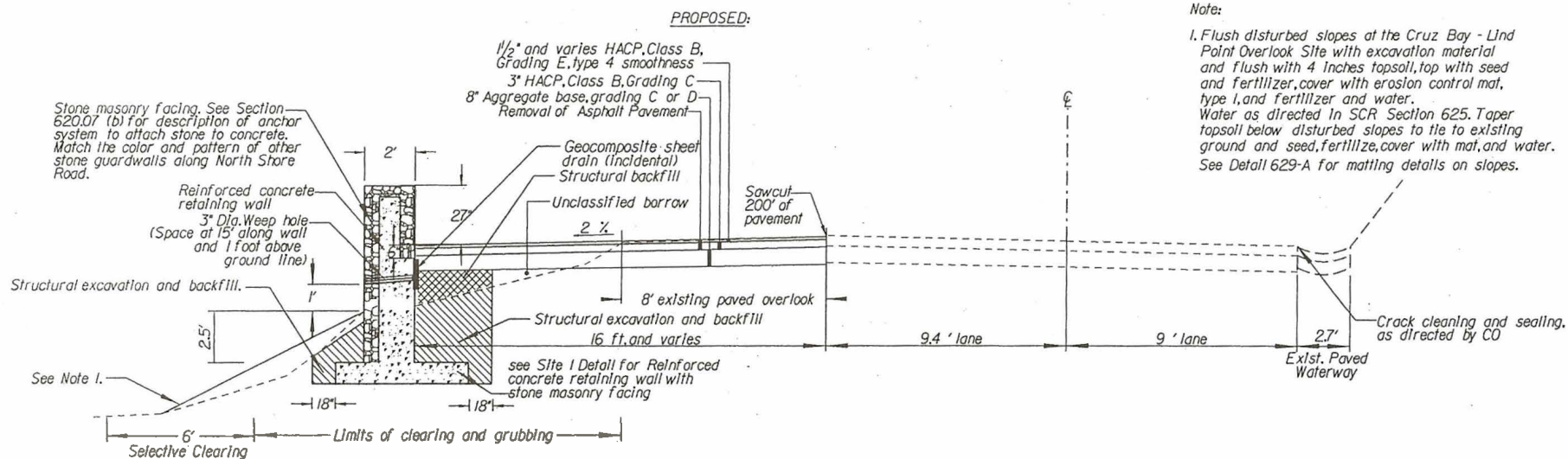
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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

VIRGIN ISLANDS NATIONAL PARK

**PAVEMENT RECONSTRUCTION
WITH ADJACENT GABION WALL
TYPICAL SECTION**

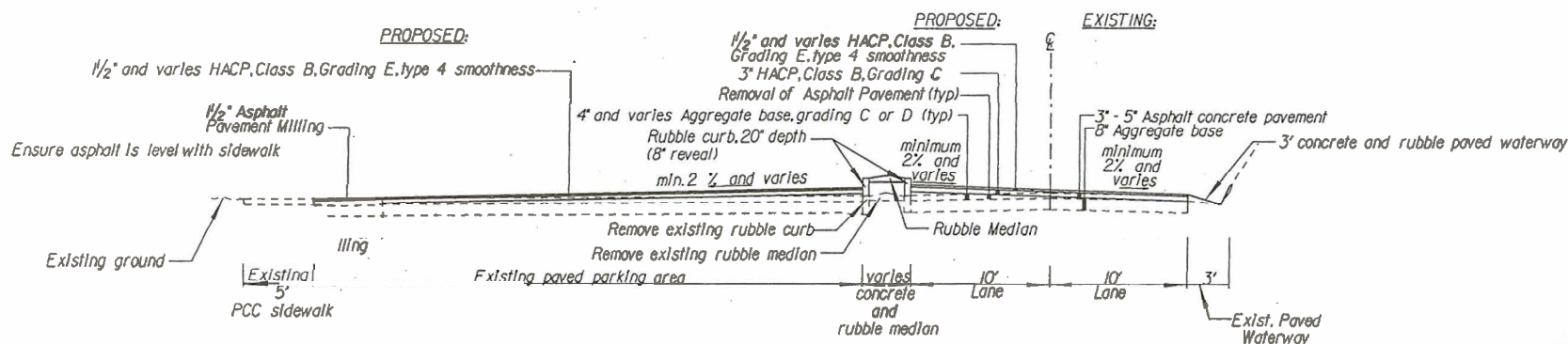
NPS NO.	REG	STATE	PROJECT	SHEET NO.
161 41,972	SE	VI	PRA-VIS 100(2)	5A



Note:

1. Flush disturbed slopes at the Cruz Bay - Lind Point Overlook Site with excavation material and flush with 4 inches topsoil, top with seed and fertilizer, cover with erosion control mat, type 1, and fertilizer and water. Water as directed in SCR Section 625. Taper topsoil below disturbed slopes to tie to existing ground and seed, fertilize, cover with mat, and water. See Detail 629-A for matting details on slopes.

**SITE #1
CRUZ BAY-LIND POINT OVERLOOK TYPICAL SECTION**



Not to scale

**SITE #3
HAWKSNest PARKING AREA TYPICAL SECTION**

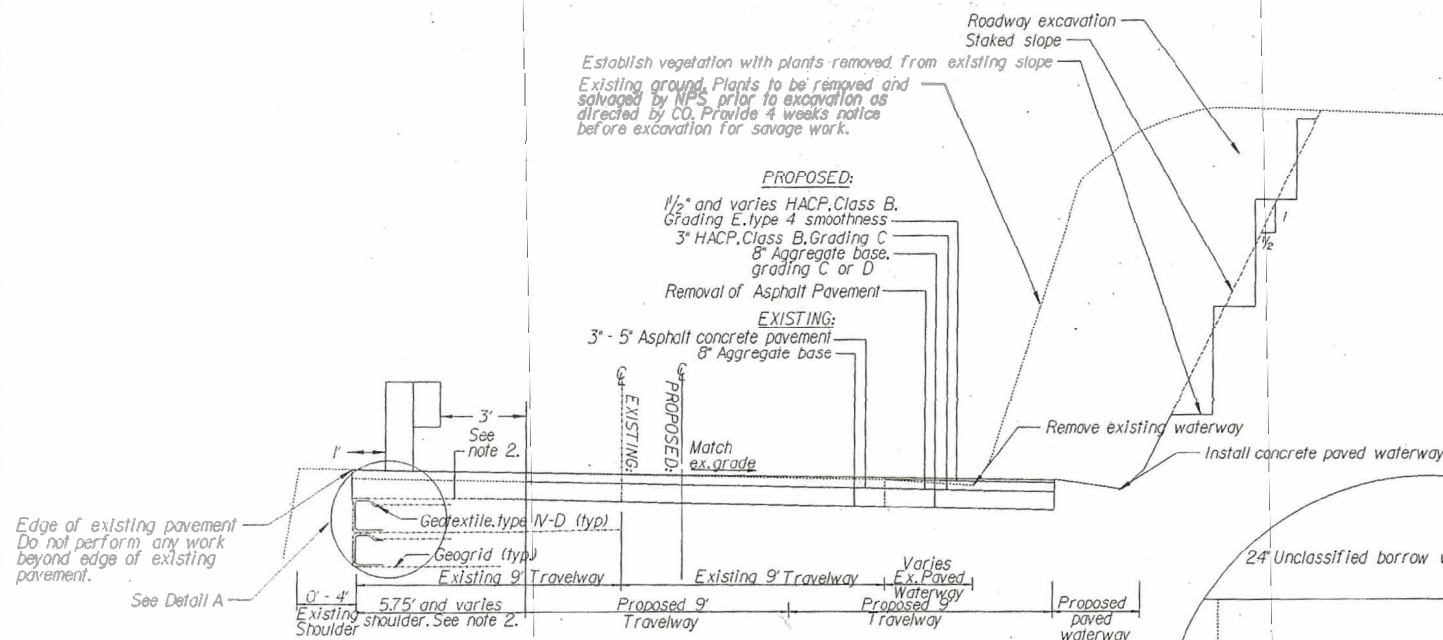
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

VIRGIN ISLANDS NATIONAL PARK
CRUZ BAY-LIND POINT OVERLOOK
SITE #1 & HAWKSNest
PARKING AREA, SITE #3
TYPICAL SECTIONS

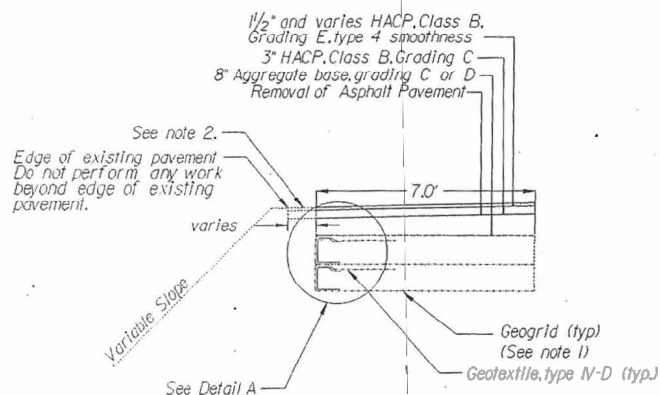
NPS NO.	REC	STATE	PROJECT	SHEET NO.
161 4L912	SE	VI	PRA-VIS 100121	6A

Notes:

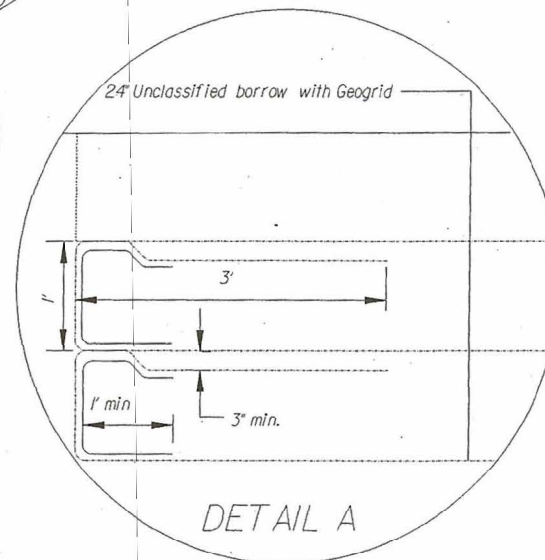
1. Install geogrid reinforcement according to Section 260
2. Remove existing asphalt pavement and in areas not being paved on the left side of the road place 4 1/2" of aggregate topsoil over 8" aggregate base. Seed and place erosion control mat type I per manufacturer's recommendations. Seed only during the seeding season from April to December. Water as directed in SCR Section 625. Do not disturb areas beyond the existing left edge of pavement.
3. Provide a rough stepped finished face to provide areas to reestablish vegetation.
4. Use hydraulic equipment for rock excavation or other methods as approved by the CO. If rock drilling is used, remove all drill marks. Blasting is not permitted.



ROADWAY RE-IGNMENT AND PAVEMENT RECONSTRUCTION
PENN POINT DROP OFF



PAVEMENT RECONSTRUCTION
PENN POINT DROP OFF



Not to scale

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

VIRGIN ISLANDS NATIONAL PARK

PENN POINT DROP OFF, SITE #11
TYPICAL SECTIONS

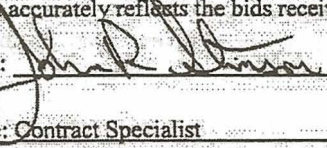
TABULATION OF BIDS (REVISED)

Schedule: A
Project No.: PRA-VIIS 100(2)
Project Name: VIRGIN ISLANDS NATIONAL PARK

State: VI
County: N/A
NORTH SHORE ROAD

Opened at: EFLHD - Sterling, VA
By: John R. Stinson
Date: 04/25/05

I certify that this Bid Tabulation accurately reflects the bids received and publicly opened for this solicitation.

Signed: 
Title: Contract Specialist

Date: 04/25/2005

Contract Awarded to: Island Roads Corporation, St. Thomas, VI

Date: 5/24/2005

Contractor	Bid Amount	Responsive
Island Roads Corporation 6501 Red Hook Plaza Suite 201 St. Thomas, VI 00802	2,859,813.51	
Engineer's Estimate	2,570,000.00	

Note: This revised TAB is based on the results of negotiations conducted with the sole bidder on the project which resulted in quantity and specification changes (the original bid opening was on 01/25/2005).

TABULATION OF BIDS

Date: 05/19/05

Schedule: A

Project No.: PRA-VIIS 100(2)

Project Name: VIRGIN ISLANDS NATIONAL PARK

BID TOTAL CHECK PASS

Bidder	Bidder's Bid Amount	Computed Bid Amount	Error
Island Roads Corporation	2,859,813.51	2,859,813.51	

The apparent low bidder is 11 % above the engineer's estimate.

TABULATION OF BIDS

Date: 05/19/05

Schedule: A

Project No.: PRA-VIIS 100(2)

Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
15101	LPSM	MOBILIZATION			
	Island Roads Corporation		ALL	280,000.00	280,000.00
	ENGINEER'S ESTIMATE			257,310.00	257,310.00
15201	LPSM	CONSTRUCTION SURVEY AND STAKING			
	Island Roads Corporation		ALL	10,000.00	10,000.00
	ENGINEER'S ESTIMATE			52,000.00	52,000.00
15401	LPSM	CONTRACTOR TESTING			
	Island Roads Corporation		ALL	25,000.00	25,000.00
	ENGINEER'S ESTIMATE			20,000.00	20,000.00
15703	LNFT	SILT FENCE			
	Island Roads Corporation		3,000	4.00	12,000.00
	ENGINEER'S ESTIMATE			3.50	10,500.00
15716C	EACH	INLET PROTECTION, TYPE C			
	Island Roads Corporation		2	400.00	800.00
	ENGINEER'S ESTIMATE			240.00	480.00
15742	LNFT	FILTER BERM			
	Island Roads Corporation		3,000	5.00	15,000.00
	ENGINEER'S ESTIMATE			3.00	9,000.00
20101	ACRE	CLEARING AND GRUBBING			
	Island Roads Corporation		0.1	8,000.00	800.00
	ENGINEER'S ESTIMATE			3,600.00	360.00
20201	ACRE	SELECTIVE CLEARING			
	Island Roads Corporation		1	8,000.00	8,000.00
	ENGINEER'S ESTIMATE			3,500.00	3,500.00
20301AE	EACH	REMOVAL OF FRAME AND GRATE			
	Island Roads Corporation		19	300.00	5,700.00
	ENGINEER'S ESTIMATE			100.00	1,900.00
20301E	EACH	REMOVAL OF HEADWALLS			
	Island Roads Corporation		1	1,500.00	1,500.00
	ENGINEER'S ESTIMATE			1,000.00	1,000.00

TABULATION OF BIDS

Date: 05/19/05

Schedule: A

Project No.: PRA-VIIS 100 (2)

Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
20301T	EACH	REMOVAL OF WHEELSTOPS			
	Island Roads Corporation		33	50.00	1,650.00
	ENGINEER'S ESTIMATE			40.00	1,320.00
20302H	LNFT	REMOVAL OF PIPE CULVERTS			
	Island Roads Corporation		30	75.00	2,250.00
	ENGINEER'S ESTIMATE			25.00	750.00
20302RD	LNFT	REMOVAL OF STONE CURB (RUBBLE CURB)			
	Island Roads Corporation		500	20.00	10,000.00
	ENGINEER'S ESTIMATE			6.35	3,175.00
20302UB	LNFT	REMOVAL OF PORTLAND CEMENT CONCRETE PAVED WATERWAY			
	Island Roads Corporation		250	30.00	7,500.00
	ENGINEER'S ESTIMATE			15.00	3,750.00
20302UD	LNFT	REMOVAL OF STONE PAVED WATERWAY			
	Island Roads Corporation		800	20.00	16,000.00
	ENGINEER'S ESTIMATE			10.00	8,000.00
20303AGD	SQYD	REMOVAL OF STONE MEDIAN (RUBBLE MEDIAN)			
	Island Roads Corporation		35	50.00	1,750.00
	ENGINEER'S ESTIMATE			20.00	700.00
20303PA	SQYD	REMOVAL OF ASPHALT PAVEMENT			
	Island Roads Corporation		10,000	22.50	225,000.00
	ENGINEER'S ESTIMATE			17.50	175,000.00
20307	LNFT	SAWCUTTING PAVEMENT			
	Island Roads Corporation		5,800	4.00	23,200.00
	ENGINEER'S ESTIMATE			3.00	17,400.00
20401	CUYD	ROADWAY EXCAVATION (Penn Point, Site #11)			
	Island Roads Corporation		550	80.00	44,000.00
	ENGINEER'S ESTIMATE			55.00	30,250.00
20401	CUYD	ROADWAY EXCAVATION (Sites #1, #2, #3, #4, #5, #6, #7, #9, #12, #13, & #14)			
	Island Roads Corporation		4,800	65.00	312,000.00
	ENGINEER'S ESTIMATE			35.00	168,000.00

TABULATION OF BIDS

Date: 05/19/05

Schedule: A

Project No.: PRA-VIIS 100(2)

Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
20701DD	SQYD	EARTHWORK GEOTEXTILE, TYPE IV-D			
	Island Roads Corporation		4,900	10.00	49,000.00
	ENGINEER'S ESTIMATE			2.25	11,025.00
20801	CUYD	STRUCTURE EXCAVATION			
	Island Roads Corporation		550	65.00	35,750.00
	ENGINEER'S ESTIMATE			30.00	16,500.00
20803	CUYD	STRUCTURAL BACKFILL			
	Island Roads Corporation		500	75.00	37,500.00
	ENGINEER'S ESTIMATE			25.00	12,500.00
25101C	CUYD	PLACED RIPRAP, CLASS 3			
	Island Roads Corporation		15	250.00	3,750.00
	ENGINEER'S ESTIMATE			200.00	3,000.00
25111	EACH	BOULDER (about 0.70 ton)			
	Island Roads Corporation		100	150.00	15,000.00
	ENGINEER'S ESTIMATE			125.00	12,500.00
25303	CUYD	GABIONS, GALVANIZED OR ALUMINIZED COATED			
	Island Roads Corporation		200	400.00	80,000.00
	ENGINEER'S ESTIMATE			250.00	50,000.00
25803	CUYD	REINFORCED CONCRETE RETAINING WALL			
	Island Roads Corporation		243	922.40	224,143.20
	ENGINEER'S ESTIMATE			575.00	139,725.00
26001	SQYD	GEOSYNTHETIC REINFORCEMENT			
	Island Roads Corporation		21,000	5.00	105,000.00
	ENGINEER'S ESTIMATE			7.75	162,750.00
30101Z	TON	AGGREGATE BASE, GRADING C OR D			
	Island Roads Corporation		3,100	60.00	186,000.00
	ENGINEER'S ESTIMATE			50.00	155,000.00
30501	TON	AGGREGATE-TOPSOIL COURSE			
	Island Roads Corporation		225	80.00	18,000.00
	ENGINEER'S ESTIMATE			120.00	27,000.00

TABULATION OF BIDS

Date: 05/19/05

Schedule: A

Project No.: PRA-VIIS 100(2)

Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
40101BC	TON	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING C			
	Island Roads Corporation		1,160	275.00	319,000.00
	ENGINEER'S ESTIMATE			200.00	232,000.00
40101BED	TON	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING E, TYPE 4 PAVEMENT SMOOTHNESS			
	Island Roads Corporation		580	275.00	159,500.00
	ENGINEER'S ESTIMATE			200.00	116,000.00
41301	SQYD	ASPHALT PAVEMENT MILLING			
	Island Roads Corporation		985	25.00	24,625.00
	ENGINEER'S ESTIMATE			3.00	2,955.00
41404	LNFT	CRACK CLEANING AND SEALING			
	Island Roads Corporation		22,000	2.63	57,860.00
	ENGINEER'S ESTIMATE			2.25	49,500.00
60101	CUYD	CONCRETE			
	Island Roads Corporation		1	2,000.00	2,000.00
	ENGINEER'S ESTIMATE			1,000.00	1,000.00
60201N	LNFT	30-INCH PIPE CULVERT			
	Island Roads Corporation		30	300.00	9,000.00
	ENGINEER'S ESTIMATE			200.00	6,000.00
60409FA	EACH	METAL FRAME AND GRATE, TYPE 6A (-6)			
	Island Roads Corporation		3	800.00	2,400.00
	ENGINEER'S ESTIMATE			1,000.00	3,000.00
60411	EACH	REMOVING AND RESETTING METAL FRAME AND GRATE			
	Island Roads Corporation		1	400.00	400.00
	ENGINEER'S ESTIMATE			1,300.00	1,300.00
60413	EACH	CONCRETE INLET TOPS			
	Island Roads Corporation		1	750.00	750.00
	ENGINEER'S ESTIMATE			1,000.00	1,000.00
60801C	SQYD	PAVED WATERWAY, TYPE 3			
	Island Roads Corporation		300	150.00	45,000.00
	ENGINEER'S ESTIMATE			165.00	49,500.00

TABULATION OF BIDS

Date: 05/19/05

Schedule: A

Project No.: PRA-VIIS 100(2)

Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
60801D	SQYD	PAVED WATERWAY, TYPE 4			
	Island Roads Corporation		90	150.00	13,500.00
	ENGINEER'S ESTIMATE			120.00	10,800.00
60903BY	LNFT	STONE CURB, TYPE 2, 18-INCH DEPTH (RUBBLE CURB)			
	Island Roads Corporation		500	90.00	45,000.00
	ENGINEER'S ESTIMATE			50.00	25,000.00
60909A	EACH	WHEELSTOP (CONCRETE)			
	Island Roads Corporation		36	225.00	8,100.00
	ENGINEER'S ESTIMATE			100.00	3,600.00
61503C	SQYD	STONE MEDIAN (RUBBLE MEDIAN)			
	Island Roads Corporation		35	200.00	7,000.00
	ENGINEER'S ESTIMATE			200.00	7,000.00
61701H	LNFT	GUARDRAIL SYSTEM SBTB			
	Island Roads Corporation		115	150.00	17,250.00
	ENGINEER'S ESTIMATE			90.00	10,350.00
62005	LNFT	REMOVE AND RESET STONE MASONRY GUARDWALL			
	Island Roads Corporation		45	200.00	9,000.00
	ENGINEER'S ESTIMATE			125.00	5,625.00
62007AN	EACH	STONE MASONRY HEADWALL FOR 30-INCH PIPE CULVERT			
	Island Roads Corporation		1	3,000.00	3,000.00
	ENGINEER'S ESTIMATE			5,000.00	5,000.00
62014AC	SQYD	CLASS A MASONRY, COURSE POINTED FINISH			
	Island Roads Corporation		363	377.37	136,985.31
	ENGINEER'S ESTIMATE			325.00	117,975.00
62403	CUYD	FURNISHING AND PLACING TOPSOIL			
	Island Roads Corporation		170	100.00	17,000.00
	ENGINEER'S ESTIMATE			65.00	11,050.00
62509	ACRE	TURF ESTABLISHMENT			
	Island Roads Corporation		0.7	10,000.00	7,000.00
	ENGINEER'S ESTIMATE			12,000.00	8,400.00

TABULATION OF BIDS

Date: 05/19/05

Schedule: A
 Project No.: PRA-VIIS 100(2)
 Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
62510A	ACRE	SEED (SUPPLEMENTAL APPLICATION)			
	Island Roads Corporation		0.7	2,000.00	1,400.00
	ENGINEER'S ESTIMATE			2,000.00	1,400.00
62520	LPSM	WATER			
	Island Roads Corporation		ALL	10,000.00	10,000.00
	ENGINEER'S ESTIMATE			15,000.00	15,000.00
62601CXFC	EACH	CRESCENTIA LINEARIFOLIA, BLACK CALABASH, 3 GALLON CONTAINER, CONTAINER GROWN			
	Island Roads Corporation		2	150.00	300.00
	ENGINEER'S ESTIMATE			100.00	200.00
62601TCFC	EACH	TABEBUIA HETEROPHYLLA, PINK CEDAR, 3 GALLON CONTAINER, CONTAINER GROWN			
	Island Roads Corporation		5	200.00	1,000.00
	ENGINEER'S ESTIMATE			100.00	500.00
62901A	SQYD	EROSION CONTROL MAT TYPE 1			
	Island Roads Corporation		3,500	5.00	17,500.00
	ENGINEER'S ESTIMATE			5.00	17,500.00
62901B	SQYD	EROSION CONTROL MAT TYPE 2			
	Island Roads Corporation		50	5.00	250.00
	ENGINEER'S ESTIMATE			15.00	750.00
63304CC	SQFT	SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING			
	Island Roads Corporation		37	100.00	3,700.00
	ENGINEER'S ESTIMATE			35.00	1,295.00
63308A	EACH	REMOVING AND RESETTNG SIGN			
	Island Roads Corporation		5	125.00	625.00
	ENGINEER'S ESTIMATE			175.00	875.00
63401AA	LNFT	PAVEMENT MARKINGS, TYPE A, SOLID			
	Island Roads Corporation		10,400	2.50	26,000.00
	ENGINEER'S ESTIMATE			1.20	12,480.00
63401AB	LNFT	PAVEMENT MARKINGS, TYPE A, BROKEN			
	Island Roads Corporation		100	5.00	500.00
	ENGINEER'S ESTIMATE			0.50	50.00

TABULATION OF BIDS

Date: 05/19/05

Schedule: A
Project No.: PRA-VIIS 100(2)
Project Name: VIRGIN ISLANDS NATIONAL PARK

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
63402	SQFT	PAVEMENT MARKINGS			
	Island Roads Corporation		235	25.00	5,875.00
	ENGINEER'S ESTIMATE			80.00	18,800.00
63501	LPSM	TEMPORARY TRAFFIC CONTROL			
	Island Roads Corporation		ALL	20,000.00	20,000.00
	ENGINEER'S ESTIMATE			366,000.00	366,000.00
63529	EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM			
	Island Roads Corporation		2	35,000.00	70,000.00
	ENGINEER'S ESTIMATE			34,000.00	68,000.00
63613	EACH	TRAFFIC DETECTOR SYSTEM			
	Island Roads Corporation		3	7,000.00	21,000.00
	ENGINEER'S ESTIMATE			5,500.00	16,500.00
63640	CTSM	COMPENSATION FOR UTILITY COMPANY WORK			
	Island Roads Corporation		1	5,000.00	5,000.00
	ENGINEER'S ESTIMATE			4,200.00	4,200.00
63701	EACH	FIELD OFFICE			
	Island Roads Corporation		1	36,000.00	36,000.00
	ENGINEER'S ESTIMATE			25,000.00	25,000.00

Standard Form 1034 Revised October 1967 Department of the Treasury 1 TFM 4-2000 1034-121		PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL			VOUCHER NO	
U.S. DEPARTMENT, BUREAU, OR ESTABLISHMENT AND LOCATION U.S. Department of Transportation Federal Highway Administration Eastern Federal Lands Highway Division 21400 Ridgetop Circle Sterling, VA 20166				DATE VOUCHER PREPARED		SCHEDULE NO
				CONTRACT NUMBER AND DATE DTFH71-05-C-00017 05/24/2005		PAID BY
				REQUISITION NUMBER AND DATE		
PAYEE'S NAME AND ADDRESS Island Roads Corporation 6501 Red Hook Plaza St. Thomas, VI 00802				DATE INVOICE RECEIVED		
				DISCOUNT TERMS		
				PAYEE'S ACCOUNT NUMBER		
				GOVERNMENT BAL. NUMBER		
SHIPPED FROM		TO		WEIGHT		
NUMBER AND DATE OF ORDER	DATE OF DELIVERY OR SERVICE	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary)	QUAN- TITY	UNIT PRICE COST PER		AMOUNT (1)
		Final Estimate No. 16 - FINAL PAYMENT. This is final settlement of construction for Project PRA-VIIS 100(2). Final settlement is specifically conditioned upon the execution of the Contractor's Release attached hereto and incorporated herein. By: <i>A. W. Miller</i> Title: <i>PR. IBANT</i> Date: <i>3/7/07</i>				
(Use continuation sheet(s) if necessary) (Payee must NOT use the space below) TOTAL \$9,822.79						
PAYMENT: ☐ PROVISIONAL ☐ COMPLETE ☐ PARTIAL ☒ FINAL ☐ PROGRESS ☐ ADVANCE		APPROVED FOR BY ² <i>D. W. Miller</i> <i>Donald W. Miller</i> <i>3/15/07</i> TITLE Director, Project Delivery	EXCHANGE RATE = \$ 9,822.79 = \$1.00	DIFFERENCES		
		Amount verified; correct for payment (Signature or initials)				
Pursuant to authority vested in me, I certify that this voucher is correct and proper for payment. <i>3/15/07</i> (Date) <i>Debra Harsh</i> (Authorized Certifying Officer) <i>Mah</i> Administration Program Coordinator (Title)						
ACCOUNTING CLASSIFICATION						
Proj#: 1515785360002 Org#: 1578001188 Task#: 540.00.F170.78						
PAID BY	CHECK NUMBER ON TREASURER OF THE UNITED STATES		CHECK NUMBER ON (Name of bank)			
	CASH DATE		PAYEE ³			
¹ When stated in foreign currency, insert name of currency. ² If the ability to certify and authority to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the space provided, over his official title. ³ When a voucher is receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.					FOR TITLE	

Previous edition usable

NSN 7540-00-900-2234

PRIVACY ACT STATEMENT

The information requested on this form is required under the provisions of 31 U.S.C. 82b and 82c, for the purpose of disbursing Federal money. The information requested is to identify the particular creditor and the amounts to be paid. Failure to furnish this information will hinder discharge of the payment obligation.

DEPARTMENT OF TRANSPORTATION CONTRACTOR'S RELEASE	CONTRACT NO. DTFH71-05-C-00017
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CONTRACTOR (Name and address) Island Roads Corporation 6501 Red Hook Plaza St. Thomas, VI 00802	SUM OF Nine Thousand Eight Hundred Twenty Two Dollars and Seventy Nine Cents DOLLARS (\$) 9,822.79
--	---

In consideration of the sum stated above, which has been paid or is to be paid to the Contractor, or his assignees, the Contractor, upon payment of the said sum by the UNITED STATES OF AMERICA (hereinafter called the Government), does remise, release, and discharge the Government, its officers, agents, and employees, of and from all liabilities, obligations, claims, and demands whatsoever under or arising from the said contract, except:

1. Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible of exact statement by the Contractor, as follows:

2. Claims, together with reasonable expenses incidental thereto, based upon the liabilities of the Contractor to third parties arising out of the performance of this contract, which are not known to the Contractor on the date of the execution of this release and of which the Contractor gives notice in writing to the Contracting Officer within the period specified in the said contract: and

3. Claims for reimbursement of costs (other than expenses of the Contractor by reason of his indemnification of the Government against patent liability), including reasonable expenses incidental thereto, incurred by the Contractor under any provisions of the said contract relating to patents.

The Contractor agrees, in connection with patent matters and with claims which are not released as set forth above, that he will comply with all provisions of the said contract, including without limitation those provisions relating to notifications to the Contracting Officer and relating to the defense or prosecution of litigation.

IN WITNESS WHEREOF, this release has been executed this 7 day of MARCH, 2007

WITNESSES

 _____ [Signature]	BY <u>ISLAND ROADS CORPORATION</u> (Contractor)  _____ TITLE <u>PRESIDENT</u>
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NOTE: In the case of a corporation, witnesses are not required, but the certification below must be completed.

CERTIFICATE

I, H. HENRICKSON, certify that I am the COMPANY secretary of the corporation named as Contractor in the foregoing release; that H. SMITH who signed said release on behalf of the Contractor was then PRESIDENT of said corporation; that said release was duly signed for and in behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

(CORPORATE SEAL)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
21400 RIDGETOP CIRCLE
STERLING, VIRGINIA 20166

batch #
cntrl # 03769

PRA-VIIS 100(2) - VIRGIN ISLANDS NATIONAL PARK

Rehabilitation of roadway and parking area pavement, drainage improvements, guardrail installation, guardwall repair, striping, construction of the "Cruz Bay/Lind Point Overlook", traffic calming, and safety improvements.

TO: ISLAND ROADS CORPORATION
6501 RED HOOK PLAZA, SUITE 201
ST. THOMAS, VI 00802

CONSTRUCTION SUMMARY

For work performed up to and including October 25, 2005

ESTIMATE # 16, final
PERIOD THROUGH 10/25/06

TOTAL AMOUNT EARNED TO DATE \$2,804,571.45

*ADJUSTMENTS \$0.00

TOTAL PAYMENTS APPROVED TO DATE \$2,804,571.45

TOTAL PAYMENTS PREVIOUSLY PAID \$2,794,748.66

AMOUNT TO BE PAID THIS ESTIMATE \$9,822.79

CONTRACT NUMBER: DTFH71-05-C-00017
AWARD DATE: May 24, 2005

STATE U. S. Virgin Islands
COUNTIES St. John
FOREST OR PARK Virgin Islands NP

LENGTH 1.733 miles

This estimate submitted 11/27/06 by
Jerry O. Runyon, Project Engineer

ADVICE TYPE 10

SCOTIA BANK
ST. THOMAS, US VI 00804
0216 0605 6

(044-003616-15) ISLAND ROADS CORPORATION
*DTFH71-05-C-00017
ESTIMATE # 16, final

TIN # 66-0466546

***ADJUSTMENTS**

amount held Est. 15 for final quantities verification \$5,000.00

amount released Est. 16 final quantities verification \$5,000.00

ACCOUNT NUMBER	EXPEND	LIQUIDATE
Proj 1515785360002; Org 1578001188; Task 540.00.F170.78	\$9,822.79	\$9,822.79
TOTAL	\$9,822.79	\$9,822.79

Zaki M. Saad, Construction Operations Engineer

date: 3/8/07

Concur in estimate

Thomas J. Scott, Jr., Construction Engineer

date: 3/14/07

Approve for payment

Patricia C. Mark, Financial Manager

date: 3/15/07

Certify funds available

PRA-VIIS 100(2) - VIRGIN ISLANDS NATIONAL PARK ESTIMATE # 16, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES	
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY
15101	MOBILIZATION	100.000		100.000 LPSM	\$280,000.00	\$280,000.00	0.000	100.000	100.000
15201	CONSTRUCTION SURVEY AND STAKING	100.000		100.000 LPSM	\$10,000.00	\$10,000.00	0.000	100.000	100.000
15401	CONTRACTOR TESTING	100.000		100.000 LPSM	\$25,000.00	\$25,000.00	0.000	100.000	100.000
15703	SILT FENCE; quantity per CM #0001,	3000.000	-1939.525	1060.475 LNFT	\$4.00	\$4,241.90	0.000	1060.475	1060.475
15716C	INLET PROTECTION, TYPE C; quantity per CM #0001,	2.000	-1.000	1.000 EACH	\$400.00	\$400.00	0.000	1.000	1.000
15742	FILTER BERM; quantity per CM #0001,	3000.000	-2970.000	30.000 LNFT	\$5.00	\$150.00	0.000	30.000	30.000
20101	CLEARING AND GRUBBING; quantity per CM #0001,	0.100	0.100	0.200 ACRE	\$8,000.00	\$1,600.00	0.000	0.200	0.200
20201	SELECTIVE CLEARING; quantity per CM #0001,	1.000	-0.840	0.160 ACRE	\$8,000.00	\$1,280.00	0.000	0.160	0.160
20301AE	REMOVAL OF FRAME AND GRATE; quantity per CM #0001,	19.000	-17.000	2.000 EACH	\$300.00	\$600.00	0.000	2.000	2.000
20301E	REMOVAL OF HEADWALLS; quantity per CM #0001,	1.000	2.000	3.000 EACH	\$1,500.00	\$4,500.00	0.000	3.000	3.000
20301T	REMOVAL OF WHEELSTOPS	33.000		33.000 EACH	\$50.00	\$1,650.00	0.000	33.000	33.000
20302H	REMOVAL OF PIPE CULVERTS; quantity per CM #0001,	30.000	74.000	104.000 LNFT	\$75.00	\$7,800.00	0.000	104.000	104.000
20302RD	REMOVAL OF STONE CURB (RUBBLE CURB); quantity per CM #0001,	500.000	-134.000	366.000 LNFT	\$20.00	\$7,320.00	0.000	366.000	366.000
20302UB	REMOVAL OF PORTLAND CEMENT CONCRETE PAVED WATERWAY; quantity per CM #0001,	250.000	54.000	304.000 LNFT	\$30.00	\$9,120.00	0.000	304.000	304.000
20302UD	REMOVAL OF STONE PAVED WATERWAY; quantity per CM #0001,	800.000	-483.000	317.000 LNFT	\$20.00	\$6,340.00	0.000	317.000	317.000
20303AGD	REMOVAL OF STONE MEDIAN (RUBBLE MEDIAN); quantity per CM #0001,	35.000	8.790	43.790 SQYD	\$50.00	\$2,189.50	0.000	43.790	43.790
20303PA	REMOVAL OF ASPHALT PAVEMENT; quantity per CM #0001,	10000.000	-1634.820	8365.180 SQYD	\$22.50	\$188,216.55	0.000	8365.180	8365.180
20307	SAWCUTTING PAVEMENT; quantity per CM #0001,	5800.000	1424.000	7224.000 LNFT	\$4.00	\$28,896.00	0.000	7224.000	7224.000
20401	ROADWAY EXCAVATION (Perm Point, Site #1); quantity per CM #0001,	550.000	241.700	791.700 CUYD	\$80.00	\$63,336.00	0.000	791.700	791.700
20401	ROADWAY EXCAVATION (Sites #1, #2, #3, #4, #5, #6, #7, #9, #12, #13, & #14); quantity per CM #0001,	4800.000	-1290.000	3510.000 CUYD	\$65.00	\$228,150.00	0.000	3510.000	3510.000
20701DD	EARTHWORK GEOTEXTILE, TYPE IV-D; quantity per CM #0001,	4900.000	-3182.765	1717.235 SQYD	\$10.00	\$17,172.35	0.000	1717.235	1717.235
20801	STRUCTURE EXCAVATION; quantity per CM #0001,	550.000	350.000	900.000 CUYD	\$65.00	\$58,500.00	0.000	900.000	900.000
20803	STRUCTURAL BACKFILL; quantity per CM #0001,	500.000	230.000	730.000 CUYD	\$75.00	\$54,750.00	0.000	730.000	730.000

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY ADMINISTRATION

PRA-VIIS 100(2) - VIRGIN ISLANDS NATIONAL PARK ESTIMATE # 16, final

ITEM NO.	DESCR.	CONTRACTED					ESTIMATED				PROBABLES			OVERRUN
		QUANTITY	CM	AMENDED UNIT	UNIT PRICE	AMOUNT	CURRENT	PREVIOUS	TO DATE	AMOUNT	QUANTITY	AMOUNT	QUANTITY	
25101C	PLACED RIPRAP, CLASS 3; quantity per CM #0001,	15.000	-9.000	6.000 CUYD	\$250.00	\$1,500.00	0.000	6.000	6.000	\$1,500.00	6.000	\$1,500.00	0	
25111	BOULDER (about 0.70 ton); quantity per CM #0001,	100.000	-56.000	44.000 EACH	\$150.00	\$6,600.00	0.000	44.000	44.000	\$6,600.00	44.000	\$6,600.00	0	
25303	GABIONS, GALVANIZED OR ALUMINIZED COATED; quantity per CM #0001,	200.000	-148.490	51.510 CUYD	\$400.00	\$20,604.00	0.000	51.510	51.510	\$20,604.00	51.510	\$20,604.00	0	
25803	WALL; quantity per CM #0001,	243.000	31.000	274.000 CUYD	\$922.40	\$252,737.60	0.000	274.000	274.000	\$252,737.60	274.000	\$252,737.60	0	
26001	GEOSYNTHETIC REINFORCEMENT; quantity per CM #0001,	21000.000	-6622.490	14377.510 SQYD	\$5.00	\$71,887.55	0.000	14377.510	14377.510	\$71,887.55	14377.510	\$71,887.55	0	
30101Z	AGGREGATE BASE, GRADING C OR D; quantity per CM #0001,	3100.000	732.840	3832.840 TON	\$60.00	\$229,970.40	0.000	3832.840	3832.840	\$229,970.40	3832.840	\$229,970.40	0	
30501	AGGREGATE-TOPSOIL COURSE; quantity per CM #0001,	225.000	-225.000	0.000 TON	\$80.00	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0	
40101BC	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING C; quantity per CM #0001,	1160.000	901.480	2061.480 TON	\$275.00	\$566,907.00	0.000	2061.480	2061.480	\$566,907.00	2061.480	\$566,907.00	0	
40101BED	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING E, TYPE 4 PAVEMENT SMOOTHNESS; quantity per CM #0001,	580.000	-234.290	345.710 TON	\$275.00	\$95,070.25	0.000	345.710	345.710	\$95,070.25	345.710	\$95,070.25	0	
41301	ASPHALT PAVEMENT MILLING; quantity per CM #0001,	985.000	-144.276	840.724 SQYD	\$25.00	\$21,018.10	0.000	840.724	840.724	\$21,018.10	840.724	\$21,018.10	0	
41404	CRACK CLEANING AND SEALING; quantity per CM #0001,	22000.000	-22000.000	0.000 LNFT	\$2.63	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0	
60101	CONCRETE; quantity per CM #0001,	1.000	2.000	3.000 CUYD	\$2,000.00	\$6,000.00	0.000	3.000	3.000	\$6,000.00	3.000	\$6,000.00	0	
60201N	30-INCH PIPE CULVERT; quantity per CM #0001,	30.000	74.000	104.000 LNFT	\$300.00	\$31,200.00	0.000	104.000	104.000	\$31,200.00	104.000	\$31,200.00	0	
60409FA	METAL FRAME AND GRATE, TYPE 6A (-6); quantity per CM #0001,	3.000	-3.000	0.000 EACH	\$800.00	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0	
60411	REMOVING AND RESETTING METAL FRAME AND GRATE	1.000		1.000 EACH	\$400.00	\$400.00	0.000	1.000	1.000	\$400.00	1.000	\$400.00	0	
60413	CONCRETE INLET TOPS	1.000		1.000 EACH	\$750.00	\$750.00	0.000	1.000	1.000	\$750.00	1.000	\$750.00	0	
60801C	PAVED WATERWAY, TYPE 3; quantity per CM #0001,	300.000	-183.000	117.000 SQYD	\$150.00	\$17,550.00	0.000	117.000	117.000	\$17,550.00	117.000	\$17,550.00	0	
60801D	PAVED WATERWAY, TYPE 4; quantity per CM #0001,	90.000	0.700	90.700 SQYD	\$150.00	\$13,605.00	0.000	90.700	90.700	\$13,605.00	90.700	\$13,605.00	0	
60903BY	STONE CURB, TYPE 2, 18-INCH DEPTH (RUBBLE CURB); quantity per CM #0001,	500.000	4.000	504.000 LNFT	\$90.00	\$45,360.00	0.000	504.000	504.000	\$45,360.00	504.000	\$45,360.00	0	
60909A	WHEELSTOP (CONCRETE); quantity per CM #0001,	36.000	-2.000	34.000 EACH	\$225.00	\$7,650.00	0.000	34.000	34.000	\$7,650.00	34.000	\$7,650.00	0	
61503C	STONE MEDIAN (RUBBLE MEDIAN); quantity per CM #0001,	35.000	-0.778	34.222 SQYD	\$200.00	\$6,844.40	0.000	34.222	34.222	\$6,844.40	34.222	\$6,844.40	0	

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY ADMINISTRATION

PRA-VIIS 100(2) - VIRGIN ISLANDS NATIONAL PARK ESTIMATE # 16, final

ITEM NO.	DESCR.	CONTRACTED					ESTIMATED				PROBABLES			OVERRUN
		QUANTITY	CM	AMENDED UNIT	UNIT PRICE	AMOUNT	CURRENT	PREVIOUS	TO DATE	AMOUNT	QUANTITY	AMOUNT	QUANTITY	
61701H	GUARDRAIL SYSTEM SBTB; quantity per CM #0001,	115.000	145.000	260.000 LNFT	\$150.00	\$39,000.00	0.000	260.000	260.000	\$39,000.00	260.000	\$39,000.00	0	
62005	REMOVE AND RESET STONE MASONRY GUARDWALL; quantity per CM #0001,	45.000	-20.500	24.500 LNFT	\$200.00	\$4,900.00	0.000	24.500	24.500	\$4,900.00	24.500	\$4,900.00	0	
62007AN	STONE MASONRY HEADWALL FOR 30-INCH PIPE CULVERT; quantity per CM #0001,	1.000	1.000	2.000 EACH	\$3,000.00	\$6,000.00	0.000	2.000	2.000	\$6,000.00	2.000	\$6,000.00	0	
62014AC	CLASS A MASONRY, COURSE POINTED FINISH; quantity per CM #0001,	363.000	0.860	363.860 SQYD	\$377.37	\$137,309.85	12.780	351.080	363.860	\$137,309.85	363.860	\$137,309.85	0	
62403	FURNISHING AND PLACING TOPSOIL; quantity per CM #0001,	170.000	-33.000	137.000 CUYD	\$100.00	\$13,700.00	0.000	137.000	137.000	\$13,700.00	137.000	\$13,700.00	0	
62509	TURF ESTABLISHMENT; quantity per CM #0001,	0.700	0.170	0.870 ACRE	\$10,000.00	\$8,700.00	0.000	0.870	0.870	\$8,700.00	0.870	\$8,700.00	0	
62510A	SEED (SUPPLEMENTAL APPLICATION); quantity per CM #0001,	0.700	0.170	0.870 ACRE	\$2,000.00	\$1,740.00	0.000	0.870	0.870	\$1,740.00	0.870	\$1,740.00	0	
62520	WATER	100.000		100.000 LPSM	\$10,000.00	\$10,000.00	0.000	100.000	100.000	\$10,000.00	100.000	\$10,000.00	0	
62601CXFC	CRESCENTIA LINEARIFOLIA, BLACK CALABASH, 3 GALLON CONTAINER, CONTAINER GROWN; quantity per CM #0001,	2.000	-2.000	0.000 EACH	\$150.00	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0	
62601TCFC	TABEBUIA HETEROPHYLLA, PINK CEDAR, 3 GALLON CONTAINER, CONTAINER GROWN	5.000		5.000 EACH	\$200.00	\$1,000.00	0.000	5.000	5.000	\$1,000.00	5.000	\$1,000.00	0	
62901A	EROSION CONTROL MAT TYPE 1; quantity per CM #0001,	3500.000	-434.000	3066.000 SQYD	\$5.00	\$15,330.00	0.000	3066.000	3066.000	\$15,330.00	3066.000	\$15,330.00	0	
62901B	EROSION CONTROL MAT TYPE 2; quantity per CM #0001,	50.000	-16.000	34.000 SQYD	\$5.00	\$170.00	0.000	34.000	34.000	\$170.00	34.000	\$170.00	0	
63304CC	SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING; quantity per CM #0001,	37.000	-27.000	10.000 SQFT	\$100.00	\$1,000.00	0.000	10.000	10.000	\$1,000.00	10.000	\$1,000.00	0	
63308A	REMOVING AND RESETTING SIGN	5.000		5.000 EACH	\$125.00	\$625.00	0.000	5.000	5.000	\$625.00	5.000	\$625.00	0	
63401AA	PAVEMENT MARKINGS, TYPE A, SOLID; quantity per CM #0001,	10400.000	-5773.000	4627.000 LNFT	\$2.50	\$11,567.50	0.000	4627.000	4627.000	\$11,567.50	4627.000	\$11,567.50	0	
63401AB	PAVEMENT MARKINGS, TYPE A, BROKEN; quantity per CM #0001,	100.000	-25.000	75.000 LNFT	\$5.00	\$375.00	0.000	75.000	75.000	\$375.00	75.000	\$375.00	0	
63402	PAVEMENT MARKINGS; quantity per CM #0001,	235.000	-63.500	171.500 SQFT	\$25.00	\$4,287.50	0.000	171.500	171.500	\$4,287.50	171.500	\$4,287.50	0	
63501	TEMPORARY TRAFFIC CONTROL	100.000		100.000 LPSM	\$20,000.00	\$20,000.00	0.000	100.000	100.000	\$20,000.00	100.000	\$20,000.00	0	
63529	TEMPORARY TRAFFIC SIGNAL SYSTEM	2.000		2.000 EACH	\$35,000.00	\$70,000.00	0.000	2.000	2.000	\$70,000.00	2.000	\$70,000.00	0	
63613	TRAFFIC DETECTOR SYSTEM	3.000		3.000 EACH	\$7,000.00	\$21,000.00	0.000	3.000	3.000	\$21,000.00	3.000	\$21,000.00	0	
63640	COMPENSATION FOR UTILITY COMPANY WORK	1.000		1.000 CTSM	\$5,000.00	\$5,000.00	0.000	1.000	1.000	\$5,000.00	1.000	\$5,000.00	0	
63701	FIELD OFFICE	1.000		1.000 EACH	\$36,000.00	\$36,000.00	0.000	1.000	1.000	\$36,000.00	1.000	\$36,000.00	0	

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY ADMINISTRATION

PRA-VIIS 100(2) - VIRGIN ISLANDS NATIONAL PARK ESTIMATE # 16, final

ITEM NO.	DESCR.	CONTRACTED				ESTIMATED				PROBABLES			
		QUANTITY	CM	AMENDED UNIT	UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY	AMOUNT	OVERRUN QUANTITY	
99901	Stockpile item not incorporated in the work, gabion baskets			CUSY	\$25.476	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0
99902	Stockpile item not incorporated in the work, silt fence (600X)			LNFT	\$1.4650	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0
99903	Stockpile item not incorporated in the work, earthwork geotextile type IV-			SQYD	\$0.80	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0
99904	Stockpile item not incorporated in the work, geosynthetic reinforcement (1XT)			SQYD	\$3.17	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0
99905	Stockpile item not incorporated in the work, wall steel			CUYD	\$104.43	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0
99906	Stockpile item not incorporated in the work, guardrail system SBTB			LNFT	\$68.45	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0
99907	Stockpile item not incorporated in the work, aggregate base			TON	\$9.50	\$0.00	0.000	0.000	0.000	\$0.00	0.000	\$0.00	0

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY ADMINISTRATION

PRA-VIIS 100(2) - VIRGIN ISLANDS NATIONAL PARK ESTIMATE # 16, final

DATE TIME BEGAN: 07/11/05
DATE CONTRACT COMPLETE: 10/18/06 *10/7/06 by CM*
DAYS ALLOWED: 465
EXTENSIONS GRANTED BY CM *20 by CM*

TOTAL DAYS ALLOWED 465
DAYS USED TO DATE 472 10/25/06

TIME USED *101.51% 97.32*
to date/allowed

WORK COMPLETE 100.00%

to date/probable

CONSTR FUNDS USED 98.07%

to date/allotted

CE FUNDS USED #DIV/0!

to date/allotted

CE BUDGET USED 96.84%

TOTAL INCREASE DUE TO CMS \$450,692.84

TOTAL DECREASE DUE TO CMS -\$505,934.90

TOTAL INCREASE DUE TO OVERRUNS \$0.00

TOTAL DECREASE DUE TO OVERRUNS \$0.00

CM #0001, *2/8/07* -\$55,242.06

Contract award amount \$2,859,813.51

Contract amount including CMs \$2,804,571.45

CONSTRUCTION	BID	TO DATE	PROBABLE
CONTRACT	\$2,859,813.51	\$2,804,571.45	\$2,804,571.45
DBE INCENTIVE	\$0.00	\$0.00	\$0.00
QUALITY INCENTIVE	\$0.00	\$0.00	\$0.00
SMOOTHNESS INCENTIVE	\$0.00	\$0.00	\$0.00
TOTAL	\$2,859,813.51	\$2,804,571.45	\$2,804,571.45

FUNDS AUTHORIZED

Proj 1515785360002; Org 1578001188; Task 540.00.F170.78

\$2,859,813.51 \$2,859,813.51 \$2,859,813.51

TOTAL \$2,859,813.51 \$2,859,813.51 \$2,859,813.51

BALANCE OR DEFICIT \$0.00 \$55,242.06 \$55,242.06

CONSTRUCTION ENGINEERING	AUTHORIZED	TO DATE	PROBABLE	PROBABLE CE/CN
TOTAL-ALL WORK CODES	\$0.00	\$300,205.45	\$310,000.00	11.05%

C E BREAKDOWN	FUNCTION C	FUNCTION I	FUNCTION M	FUNCTION T	TOTAL
*TO DATE AUTHORIZED					\$0.00
EXPENDED	\$262,783.62	\$29,397.03	\$8,024.80		\$300,205.45
PROBABLE	\$265,000.00	\$27,000.00	\$18,000.00	\$0.00	\$310,000.00

EXPENDED PER DELPHI REPORTS AS OF 11/02/06 FY 07 & PP 20

*CE AUTH. PER DELPHI

DELPHI CE ACCOUNT NUMBERS Proj 1515785360002; Org 1578001188; Task 520.C0.F170.78

ACCOUNT NUMBER FOR PYRL: VIIS 100(2) -CE-C-F17



IN REPLY REFER TO:

United States Department of the Interior

National Park Service
Virgin Islands National Park
1300 Cruz Bay Creek
St. John, Virgin Islands 00830



November 14, 2006

Melissa L. Ridenour, Division Engineer
Dept. of Transportation – Federal Highway Admin.
Eastern Federal Lands Highway Division
21400 Ridgeway Circle
Sterling, Virginia 20166-6511

Dear Ms Ridenour:

The Virgin Islands National Park is pleased to provide final acceptance for the North Shore Road Project Number PRA VIIS 100(2) effective November 6, 2006. We are satisfied that everything in the original Scope of Work, except for those items mutually modified or deleted, has been completed.

We want to thank the Eastern Federal Lands Highway Division for enabling this extremely important phase of the North Shore Road rehabilitation to be accomplished. We also want to especially thank Jerry Runyon, Project Engineer, for his diligence in overseeing this project and working closely with the park to ensure our satisfaction with all aspects of the project.

We look forward to working with the EFLHD on future phases of the North Shore Road rehabilitation.

Sincerely,

Walter Chavez
Acting Superintendent

RECEIVED
2006 NOV 20 PM 2:36
EASTERN FEDERAL LANDS
HIGHWAY DIVISION
STERLING, VA

TAKE PRIDE
IN AMERICA



U. S. Department
of Transportation

Federal Highway
Administration

Eastern Federal Lands
Highway Division

21400 Ridgeway Circle
Sterling, VA 20166-6511

FEB 23 2007

Refer to: HFCO-15

CERTIFIED MAIL
RETURN RECEIPT

Mr. Stephen Kitchen
Project Manager
Island Roads Corporation
6501 Red Hook Plaza
St. Thomas, VI 00802

Subject: Project No. PRA-VIIS 100(2)
Virgin Islands National Park
Project Closeout
Contract No. DTFH71-05-C-00017

Dear Mr. Kitchen:

We are pleased to advise you that all work performed on the above referenced project has been satisfactorily completed in substantial conformity with the plans and specifications. Final Acceptance was effective on November 6, 2006, and as of that date you were relieved of further maintenance obligations.

Enclosed please find the following documents for Project PRA-VIIS 100(2):

- The final estimate (Estimate No. 16).
- Two copies of Contract Modification (CM) No. 0001.
- Three copies of Form 4220.4, Contractor's Release.
- Three copies of Form 1034, Public Voucher for Purchases and Services Other than Personal.



You are requested to sign and return both copies of CM No. 0001 and all three copies of Forms 4220.4 and 1034, which are based on the final estimate. One copy of CM No. 0001, with all the appropriate signatures, will be returned to you for your records. Upon receipt of the executed documents, we will process the final payment. If you have any questions, please contact Mr. Zaki M. Saad, Construction Operations Engineer, at 703-404-6269.

Sincerely yours,

/s/ Thomas J. Scott, Jr.

Thomas J. Scott Jr., P.E.
Construction Engineer

Enclosures

FHWA:JTregoe:6265:plc:2/1/07:M:\Projects\viis\st_john\100(2)\constr\cm's\final
cm\vgltr.doc

cc: Official File Copy (ZS), Chrono, Construction, J. Runyon, J. Tregoe



U.S. Department of Transportation
Federal Highway Administration

CONSTRUCTION INSPECTION REPORT

DIVISION FHWA-EFLHD	REPORT NO. Final	DATE OF INSPECTION 10/03/2006	DATE OF REPORT 3/8/3007	PROJECT NO. PRA VIIS 100(2)
INSPECTION MADE BY Jerry O. Runyon, Project Engineer		QUALITY OF WORK ☒ Unsatisfactory ☒ Satisfactory	PROGRESS OF WORK ☒ Unsatisfactory ☒ Satisfactory	TIME ELAPSED 100%
IN COMPANY WITH See Below		WORK COMPLETED 100%		
(check appropriate box)				
☐ Process Review/Product Evaluation		☐ Inspection-In-Depth		☐ Project
☒ Final				

Attendees:

Jerry O. Runyon, Project Engineer, FHWA
Rafe Boulon, VINPS
Geoff Fleming, CQC, Island Roads Corporation

Subsequent to a determination of Substantial Completion on October 3, 2006, a Final Inspection of the above referenced project was conducted also on October 3, 2006 and the following list of punch item and additional work items was generated:

For Site # 1 -

1. Remove and Replace approximately 10-15 feet of Concrete Waterway at Sta 10+00 left.
2. Place Pavement Marking (Yellow Centerline and White dashed and solid edge).
3. Repair Wall Stone Facing (2 areas).
4. Seed and Mat slope at wall end Cruz Bay side.

For Site # 2 -

1. Turf Establishment to cover gabion baskets.
2. Re-staple Type 1 Matting and cut off bunched up matting.
3. Redo Erosion Control Matting left hanging on vegetation.

For Site # 3 -

1. Redo Pavement Markings (4 Arrows in Road).
2. Repair Stone Curbing in Parking Lot Median.
3. Turf Establishment above culvert at west end of parking area.
4. Repair Stone Waterway Edges (3 areas).

For Site # 4 -

1. Turf Establishment and matting.

For Site # 5 -

1. Place 2 Reduced Speed 10mph Signs
2. Remove extra wheel stops at east edge of parking area.
3. Remove and Replace boulders and place Agg topsoil at east edge of parking area.
4. Turf establishment at east edge of parking area around boulders.
5. Continue the 1 year establishment period for the 5 pink cedar trees planted.
6. Place Pavement Marking (Yellow centerline) between rumble strips.
7. Place 2 sets of rumble strips with added thickness.
8. Place additional boulders near steps to Jumbie Bay.

For Site # 6 -

1. Repaint existing Reduced Speed 10mph Signs and posts (NPS Brown)
2. Place Pavement Marking (Yellow centerline) between rumble strips.
3. Place 4 sets of rumble strips with added thickness.

(Continue on next page if necessary)

(Continued)

For Site # 7 -

1. Re do/Repair erosion control matting along shoulders.
2. Sweep road of loose gravel on road and re fill areas along road edge washed out.
3. Re do Erosion Control Mat left hanging on vegetation.

For Site # 8 - No Contract Work.

For Site # 9 -

1. Complete turf establishment and placement of matting.
2. At Sta 86+50 extend turf establishment and matting to headwall.
3. Sweep road of loose gravel.
4. Re do Erosion Control Mat left hanging on vegetation.

For Site # 10 - All boulder work deleted.

For Site # 11 -

1. Complete turf establishment and placement of matting.
2. Place Pavement Marking (Yellow centerline and White edge).
3. Sweep road of loose gravel.
4. Remove and reset existing object marker sign.
5. Place guard rail reflective markers.
6. Submit list of guardrail left over parts and deliver to VINPS Maintenance Yard.

For Site # 12 -

1. Complete turf establishment and placement of matting.
2. Remove asphalt marking from existing waterway (1 area).
3. Sweep road of loose gravel on road and waterway.
4. Repair damaged stone headwall (additional work).

For Site # 13 -

1. Complete Inlet at Sta 130+00. Face with Stone (additional work).
2. Complete turf establishment and placement of matting.
3. At wall repair site - clean up wall and fill hole along edge of wall.
4. Sweep road of loose gravel on road and waterway.

For Site # 14 - Deleted. See revised sites T, S, R, Q, O & P located from Cruz Bay to Site # 2.

For Traffic Counters at Lind Point, Annaberg and Kings Hill -

1. Complete Installation.
2. Complete 30 Day Testing Period.

For Sites # T, S, R, Q, O & P -

1. Re do/repair erosion control matting left hanging on vegetation.

Typical to all sites was the establishment of a stand of grass.

Additional Sites K, M & N were added after the final inspection and were completed without requiring a separate punch list.

All punch work items including the additional road rehabilitation work between Cruz Bay and Caneel Bay Overlook was completed on November 6, 2006. The VI National Park was requested to issue final acceptance effective November 6, 2006. By letter dated November 14, 2006, the VI National Park formally accepted the project.

Special Note: The 5 pink cedar trees placed at Site # 5 have an establishment period of 1 year which ends on October 18, 2007. Final acceptance or replacement of these trees is subject to a re-inspection at that time.

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U.S. Department of Transportation
Federal Highway Administration
Federal Lands Highway

CONSTRUCTION PROJECT MATERIAL CERTIFICATION

State U.S. Virgin Islands- St. John

Project No. PRA-VIIS 100(2)

Project name Virgin Islands National Park

Contract No. DTFH71-05-C-00017

Part I - Field Control

It is certified (1) that all material accepted pursuant to this contract complies with the terms of the contract as documented by the project records in according to Federal Lands standards; or (2) that material not complying with the terms of the contract was accepted according to FAR Clause 52.246-12 based on a technical evaluation of the material documented in the project records.

It is further certified (1) that the results of verification tests taken during construction confirm the validity of acceptance tests according to Federal Lands standards; or (2) that inconsistencies between verification and acceptance tests were responded to according to Federal Lands standards and so documented in the project records.

It is further certified (1) for material accepted by manufacturer's certification of compliance, such certifications and accompanying test result (when required) indicate compliance with the terms of the contract; and (2) that if verification tests of such material were taken, the tests confirmed the validity of the certifications, or the discrepancies were responded to according to Federal Lands standards and so documented in the project records.

Project Engineer Jerry O. Runyon

I hereby certify that I am a duly licensed Professional Engineer in the State of the U.S. Virgin Islands, and I am duly qualified to perform the duties of a Project Engineer for this project.

Date January 18, 2007

Construction Operations Engineer Zaki M. Saad

I hereby certify that I am a duly licensed Professional Engineer in the State of the U.S. Virgin Islands, and I am duly qualified to perform the duties of a Construction Operations Engineer for this project.

Date 01/19/2007

Part II - Final Review

It is certified (1) that the results of verification tests taken during construction confirm the validity of the job site acceptance testing and/or manufacturer's certificates; or (2) that inconsistencies are appropriately documented together with the technical basis of acceptance of the material.

Materials Engineer Scott A. Saunders

I hereby certify that I am a duly licensed Professional Engineer in the State of the U.S. Virgin Islands, and I am duly qualified to perform the duties of a Materials Engineer for this project.

Date 01/19/2007

It is certified that the records for this project have been reviewed and confirmed that the acceptance and documentation of all materials complied with Federal Lands standards.

Construction Engineer Thomas J. Scott Jr.

I hereby certify that I am a duly licensed Professional Engineer in the State of the U.S. Virgin Islands, and I am duly qualified to perform the duties of a Construction Engineer for this project.

Date 1/22/2007



**PRA VIIS 100(2) SITE # 2 (CRUZ BAY – LIND POINT OVERLOOK)
AS BUILT CONDITIONS**

Photo taken looking from east end of site toward Cruz Bay



**PRA VIIS 100(2) SITE # 2 (CRUZ BAY – LIND POINT OVERLOOK)
AS BUILT CONDITIONS**

Photo taken looking from west end of site toward Lind Point



PRA VIIS 100(2) SITE # 2
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking condition of gabion baskets to be removed and replaced

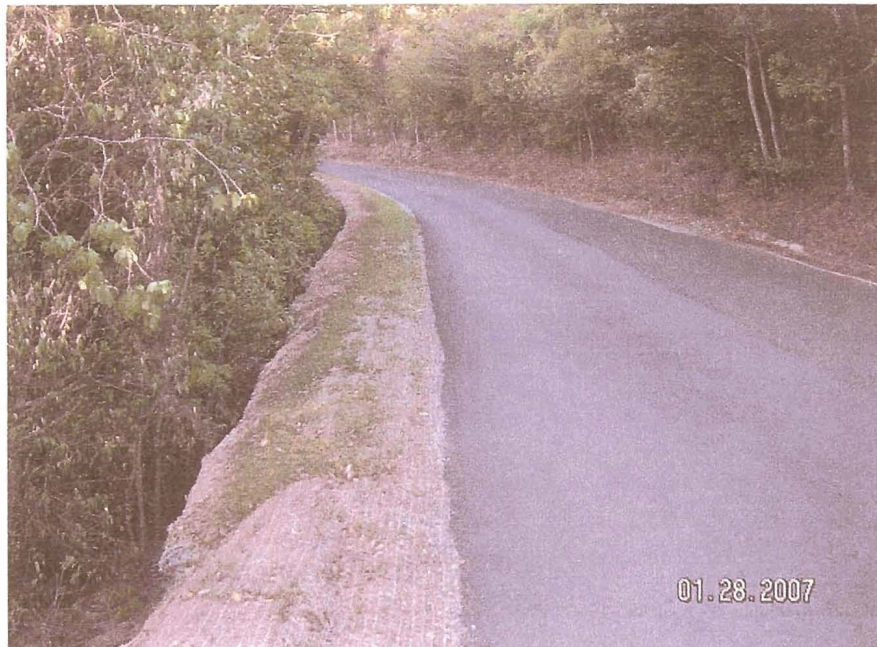


PRA VIIS 100(2) SITE # 2
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo Take looking from east end of site toward west end at top of hill



**PRA VIIS 100(2) SITE # 2
AS BUILT CONDITIONS**

**Photo taken looking west at site rehabilitation work on right lane and shoulder.
(Site typical to rehabilitation work also at Sites 4,9 & 12 plus the additional areas
between Caneel Bay Overlook and Cruz Bay.**



**PRA VIIS 100(2) SITE # 2
AS BUILT CONDITIONS**

**Photo taken looking east at site rehabilitation work on right lane and shoulder.
This work along shoulder included removal and replacement of existing gabions
(Site typical to rehabilitation work also at Sites 4, 7, 9 & 12 plus the additional
areas between Caneel Bay Overlook and Cruz Bay.**



PRA VIIS 100(2) SITE #3 (HAWKSNEST PARKING AREA)
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking center of parking site toward west end



PRA VIIS 100(2) SITE #3 (HAWKSNEST PARKING AREA)
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking center of parking site toward west end



**PRA VIIS 100(2) SITE # 3 (HAWKSNEST PARKING AREA)
AS BUILT CONDITIONS**

Photo taken looking center of Parking Site toward east end



**PRA VIIS 100(2) SITE # 3 (HAWKSNEST PARKING AREA)
AS BUILT CONDITIONS**

Photo taken looking at Parking Site and Road toward east end ,



PRA VIIS 100(2) SITE # 7

EXISTING CONDITIONS PRIOR TO CONSTRUCTION

Photo taken looking east from beginning of site rehabilitation work toward end at base of hill (Site typical to rehabilitation work also at Sites 4,9, &12)



**PRA VIIS 100(2) SITE # 7
AS BUILT CONDITIONS**

Photo taken looking east from beginning of site rehabilitation work toward end at base of hill. (Site typical to rehabilitation work also at Sites 4,9 & 12 plus the additional areas between Caneel Bay Overlook and Cruz Bay.



PRA VIIS 100(2) SITE # 11 (PENN POINT DROP OFF)
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking west toward end of realignment around curve



PRA VIIS 100(2) SITE # 11 (PENN POINT DROP OFF)
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking west from end of realignment toward curve at top of hill



**PRA VIIS 100(2) SITE # 11 (PENN POINT DROP OFF)
AS BUILT CONDITIONS**

Photo taken looking west toward end of realignment around curve.



**PRA VIIS 100(2) SITE # 11 (PENN POINT DROP OFF)
AS BUILT CONDITIONS**

Photo taken looking west toward end of realignment around curve at top of Hill.



PRA VIIS 100(2) SITE # 13
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking toward existing inlet and
culvert replaced near Rt 20 sign at bottom of hill



PRA VIIS 100(2) SITE # 13
EXISTING CONDITIONS PRIOR TO CONSTRUCTION
Photo taken looking toward existing inlet and culvert replaced



**PRA VIIS 100(2) SITE # 13
AS BUILT CONDITIONS
Photo taken looking toward inlet and culvert replaced.**