



U.S. Department
of Transportation

Federal Highway
Administration

Eastern Federal Lands
Highway Division

Final Construction Report

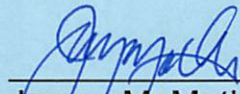
Project No.: VI NH-66(008)

Location: Christiansted Bypass, St. Croix, Virgin Islands

Description: The work included roadway grading, drainage, paving, erosion control and other miscellaneous work.

Submitted by J. Bradley Blevins
Project Engineer

Recommended by:


James M. Mathews
Construction Operations Engineer

06/02/2014
Date

Approved by:


Thomas J. Scott, Jr.
Construction Engineer

9.9.14
Date

FINAL CONSTRUCTION REPORT
PROJECT VI NH-66(008)
Christiansted Bypass Phase 1A, Contract 1

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FINAL CONSTRUCTION REPORT

PROJECT VI NH-66(008) CHRISTIANSTED BYPASS PROJECT PHASE 1A, CONTRACT 1

I) PROJECT DESCRIPTION

- A) Project Number** - Project VI NH-66(008) was located in St. Croix, United States Virgin Islands.
- B) Description of Work** – The work included roadway grading, drainage, paving, erosion control and other miscellaneous work.
- C) Environmental Considerations** – A General Permit No. STX-156-06 was obtained from the Government of the Virgin Islands of the United States, Department of Planning and Natural Resources, Division of Environmental Services on February 13, 2006, and had to be renewed yearly. This gave authorization to discharge under the National Pollutant Discharge Elimination System Storm Water Discharges Associated with Construction Activity for Infrastructure Construction Projects.

II) PROJECT DATA

- A) Specifications** – Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-96 (English).

B) Termini –

Christiansted Bypass:	from Station 37+40 to 75+50±.
Line 8:	from Station 10+00 to 12+75±
Line 33:	from Station 1+00 to 2+83.39±
Line AA:	from Station 1+00 to 2+32.38±
Line BB:	from Station 1+00 to 2+30±
Line CC:	from Station 1+00 to 2+54.38±
Line DD:	from Station 1+00 to 1+93.92±
Line EE:	from Station 1+00 to 2+66.65±
Line FF:	from Station 1+00 to 2+57.09±
Line GG:	from Station 1+00 to 1+87.5±

C) Length –

Christiansted Bypass	3810.00 feet
Line 8	275.00 feet
Line 33	183.39 feet
Line AA	132.38 feet
Line BB	130.00 feet
Line CC	154.38 feet
Line DD	93.92 feet
Line EE	166.65 feet
Line FF	157.09 feet
Line GG	87.50 feet
Total length	5190.31 feet (0.98 miles)

D) Width –

Christiansted Bypass: Station 37+40 – 75+50 is designed for two 12-foot wide to five 12-foot wide travel lines with a variable paved shoulder of 4 to 8 feet width.

Line 8: Station 10+00 to 12+75 is 30 feet wide.

Line 33: Station 1+00 to 2+83.39 is 20 feet wide.

Line AA: Station 1+00 to 2+32.38 is 10 feet wide.

Line BB: Station 1+00 to 2+30 is 20 feet wide.

Line CC: Station 1+00 to 2+54.38 is 10 feet wide.

Line DD: Station 1+00 to 1+93.92 is 24 feet wide.

Line EE: Station 1+00 to 2+66.65 is 15 feet wide.

Line FF: Station 1+00 to 2+57.09 is 15 feet wide.

Line GG: Station 1+00 to 1+87.5 is 15 feet wide.

E) Pavement Structure –

Christiansted Bypass Station 55+00 to 59+20 received 4-inch HACP, Class B grading E Surface Coarse. Line DD, EE, FF, and GG received 4-inch HACP, Class B, Grading C Binder Coarse and 2-inch HACP, Class B, Grading E, Surface Coarse.

F) Structures –

None

G) Contract Number and Date –

DTFH71-07-C-00015 – March 14, 2007

H) Contracting Officers –

Melisa L. Ridnour	Division Engineer
Donald W. Miller	Director, Project Delivery
Wanda A. Peffer	Contracting Officer
Thomas J. Scott, Jr.	Construction Engineer
James M. Mathews	Construction Operation Engineer

I) Contract Bid Amount – \$6,392,699.90

J) Engineers Estimate – \$5,560,000.00

K) Final Contract Amount – \$7,056,341.05

L) Contract Time –

Award Date:	March 14, 2007
Notice to Proceed:	April 30, 2007
Original Completion date:	April 28, 2008
Authorized Extension Granted:	480 Days
Revised Completion Date:	August 21, 2009
Date Substantially Completed:	July 5, 2009
Date All Original Work Completed:	July 5, 2009
Date Added Work Completed:	August 21, 2009
Liquidated Damages Accessed:	None

M) Contractor –

Virgin Islands Paving, Inc.	Small Business Concern (SBC)
P.O. Box 4720	
Kingshill, VI 00851-4720	

N) Subcontractors –

Addison Construction & Maintenance, Inc.	Small Business Concern (SBC)
P.O. Box 3262	Disadvantage Business Concern (DBC)

Frederiksted, VI 00841	
<i>Concrete items</i>	\$272,731.01

Lake's Trucking & Heavy Equipment Rental	SBC
P.O. Box 465	DBC
Kingshill, VI 00851	
<i>Clearing and Stripping</i>	\$28,250.70

Zennon Construction Corporation	SBC
P.O. Box 5440	DBC
Christiansted, VI 00823	
<i>Concrete Box Culvert,</i>	
<i>Pipe Culverts, Waterline and</i>	
<i>Removal Items</i>	\$154,035.15
JKL Trucking	SBC
P.O. Box 817	DBC
Kingshill, VI 00851	
<i>Trucking</i>	\$21,075.40
Ephrem Bannis Trucking	SBC
P.O. Box 3383	DBC
Frederiksted, VI 00841	
<i>Trucking</i>	\$8,438.55
Tommy's Trucking Services	SBC
P.O. Box 4971	DBC
Kingshill, VI 00851	
<i>Trucking</i>	\$5,996.24
E. Guadelupe Trucking	SBC
P.O. Box 2159	DBC
Kingshill, VI 00851	
<i>Trucking</i>	\$29,542.03
Patrick Senhouse Trucking	SBC
P.O. Box 7045	DBC
Christiansted, VI 00820	
<i>Trucking</i>	\$14,044.96
JRL Trucking	SBC
P.O. Box 4272	DBC
Kingshill, VI 00851	
<i>Trucking</i>	\$8,964.29
MDB Trucking	SBC
P.O. Box 2333	DBC
Kingshill, VI 00851	
<i>Trucking</i>	\$12,609.25
Gordon Welding	SBC
P.O. Box 2005	
Frederiksted, VI 00841	
<i>Chain Link Fence</i>	\$4,813.47

Heights Construction 489 Frangi Pani Kingshill, VI 00851 <i>Pipe Culverts and Inlets</i>	SBC \$118,218.80
A & J Fencing P.O. Box 1039 Kingshill, VI 00851 <i>Chain Link Fence</i>	 \$24,090.00
Bruno Bikar P.O. Box 3862 Kingshill, VI 00851 <i>Trucking Services</i>	 \$9,323.25
Austin Blasting P.O. Box 2383 Toa Baja, PR 00951 <i>Blasting Services</i>	 \$207,545.55
Controlled Demolition P.O. Box 2383 Toa Baja, PR 00951 <i>Blasting Services, Rock Bolts</i>	 \$196,483.74
St. Croix Surveying 72 Flag Drive St. Croix, VI 00820 <i>Survey</i>	 \$152,667.25

O) Construction Engineering Costs –

EFLHD PE Costs:	\$1,938,732.63
EFLHD CE Costs:	<u>\$ 711,936.69</u>
Total Costs:	\$2,650,669.32

Percent of the Final Contract Amount = 37.56

P) Maintaining Agency -

Government of the U.S. Virgin Islands Department of Public Works (VIDPW)

III) CONSTRUCTION

A) **Materials –**

Item No. 25101C: Placed Rip Rap, Class 3

Supplier: Heavy Materials
P.O. Box 1547
Frederiksted, St. Croix, VI 00841

Material: Shot rock meeting Class 3 Requirements

Specific Gravity, Apparent: 2.74
Absorption: 0.67%
LA Abrasion: 12%

Geotextile: Mirafi FW404 (Type IV-B)

Supplier: JM Caribbean Distributors
San Juan, PR 00926-6023

Item 25501: Mechanically Stabilized Earth Wall (MSE WALL)

Product: Maccaferri “L” Panels

Geotextile: MacMat N20

Geogrid: MacGrid WB1

Supplier: Maccaferri
10303 Governors Lane Boulevard
Williamsport, MD 21795-3116

Item No. 25601: Ground Anchor, 1 3/8” Diameter All-Thread-Bar Ground Anchor

Supplier: Williams Form Engineering Corp.
7601 N. Columbia Boulevard
Portland, OR 97203

Grout: Wil-X- Cement – Hydraulic Cement K and Type E-1

Supplier: Williams Form Engineering Corp.
8165 Graphic Drive NE
Belmont, MI 49306-9448

Item No. 30101Z: Aggregate Base, Grading C

Supplier: Heavy Materials
P.O. Box 1547
Frederiksted, St. Croix, VI 00841

Material: Crushed Aggregate – Springfield Quarry, St. Croix

Approved Job Mix Design:

<u>Sieves</u>	<u>Target Value (Percent Passing)</u>	<u>Allowable Deviation (Percent)</u>	<u>Specification (Percent Passing)</u>
50.0 mm (2")	100.0	-	100
37.5 mm (1")	94.0	-	94 - 100
19.0 mm (3/4")	83.0	±6	77 - 89
4.75 mm (#4)	37.0	±6	31 - 43
75 µm (#200)	8.5	±3.0	5.5 - 11.5

Maximum Dry Density: 139.7 pounds per cubic foot (pcf)
Optimum Moisture Content: 6.4 percent
Bulk Specific Gravity (Sp/Gr): 2.70 percent
Sodium Sulfate Soundness: 5.5 percent
LA Abrasion: 13.5 percent wear
Fractured Faces: 100 percent
Liquid Limit: ND
Plasticity Index: Non-plastic
CBR: 136

Pay Factor 85 percent

Item No. 40101BC: Hot Asphalt Concrete Pavement, Class B, Grading C
(Marshall Mix Design)

Item No. 40101BED: Hot Asphalt Concrete Pavement, Class B, Grading E,
Type 4 Pavement Smoothness (Marshall Mix Design)

Supplier: Virgin Islands Paving, Inc.
St. Croix, VI

Aggregates: #67 Rock 15 percent
Heavy Materials
Springfield Quarry
St. Croix, VI

Bulk Sp/Gr: 2.70
 Apparent Sp/Gr: 2.74
 Absorption: 0.67 percent
 LA Abrasion: 12.0 percent
 Sodium Sulfate Soundness: 0.4 percent

#8 21 percent
 Heavy Materials
 Springfield Quarry
 St. Croix, VI

Bulk Sp/Gr: 2.80
 Apparent Sp/Gr: 2.85
 Absorption: 0.75 percent
 Sodium Sulfate Soundness: 1.8 percent

#10 64 percent
 Heavy Materials
 Springfield Quarry
 St. Croix, VI

Bulk Sp/Gr: 2.73
 Apparent Sp/Gr: 2.86
 Absorption: 2.50 percent
 Sodium Sulfate Soundness: N/A

Asphalt Binder Grade and Source: PEN 60/70
 PDVA
 Bajo Grande, Venezuela

Job Mix Design Properties:

<u>Sieves</u>	<u>Target Value (Percent Passing)</u>	<u>Allowable Deviation (Percent)</u>	<u>Specification (Percent Passing)</u>
19.0 mm (3/4")	100	-	100
12.5 mm (1/2")	97	-	97 - 100
4.75 mm (#4)	62	±6	56 - 68
2.36 mm (#8)	41	±6	35 - 47
600 µm (#30)	22	±4	18 - 26
300 µm (#50)	17	±3	14 - 20
75 µm (#200)	10.9	±2.0	8.9 - 12.9

Asphalt Content: 4.8 ($\pm$ 0.5) percent of total mix
Maximum Theoretical Specific Gravity: 2.783
Dust/Asphalt Ratio: 2.3
Voids in Mineral Aggregate (VMA): 14.8 percent
Air Void Content: 3.1 percent

Pay Factor 0.80

Item No. 41202: Tack Coat (RS-1)

Manufacturer: Mariani Asphalt TK E-1
 5201 Causeway Blvd.
 Tampa, FL 33675

Supplier: Sargeant Trading, LTD
 Tampa, FL

Item No. 55214A: Structural Concrete Class A (AE) for 8-foot x 8-foot x 1-foot-9-inch Anchor Block

Supplier: Spartan Concrete Products, LLC
 Christiansted, St. Croix, VI

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
 Minimum Cement Content – 611 lbs/yd³
 Maximum Water/Cement Ratio – 0.44
 Maximum Slump – 4.0 inches*
 Minimum Air Content – 4.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement: Cemento Colon Type II 680 lbs/yd³
 Holcim Cement
 Puerto Cumarebo, Venezuela

Flyash Cement: Flyash Type F 70 lbs/yd³
 Ecologica Carmelo

Fine Aggregate: Manufactured Coarse Sand 1433 lbs/yd³
 Canrico Quarries

Coarse Aggregate: No. 67 1000 lbs/yd³
 Aggregates, LLC
 Frederiksted, St. Croix, VI

Coarse Aggregate:	No. 8 Aggregates, LLC Frederiksted, St. Croix, VI	300 lbs/yd3
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Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	309 lbs/yd3
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Air Entrainment:	Darex AEA Grace Construction Products Cambridge, MA 02140	1.6 oz/cwt
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Water Reducer:	WRDA-60 Grace Construction Products Cambridge, MA 02140	6 oz/cwt
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And	Heavy Materials, LLC Frederiksted, St. Croix, VI	
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Mix Requirements:	Minimum Strength – 4000 PSI in 28 days Minimum Cement Content – 611 lbs/yd3 Maximum Water/Cement Ratio – 0.40 Maximum Slump – 4.0 inches * Minimum Air Content – 2.0 percent	
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*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Caribe Type I Holcim Cement Puerto Cumarebo, Venezuela.	611 lbs/yd3
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Fine Aggregate#1:	Barbuda Sand Barbuda	400 lbs/yd3
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Fine Aggregate#2:	Manufactured Coarse Sand Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd3
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Coarse Aggregate#1:	No. 57 Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd3
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Coarse Aggregate#2:	No. 8 Heavy Materials, LLC Frederiksted St. Croix, VI	300 lbs/yd3
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Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	250 lbs/yd3
Air Entrainment:	Conplast PA 21 Fosroc	1.6 oz/cwt
Water Reducer:	Conplast RP 264 Fosroc	6 oz/cwt
<u>Item No. 56601N:</u>	Shotcrete, 6-inch Depth	
Supplier:	Spartan Concrete Products, LLC Christiansted, St. Croix, VI	
Mix Requirements:	Minimum Strength – 5300 PSI in 28 days Design Water/Cement Ratio – 0.39 Minimum Air Content – 5.0 percent	
Cement:	Cement Colon Type II Holcim Cement Puerto Cumarebo, Venezuela	800 lbs/yd3
Flyash Cement:	Flyash Type F Ecologica Carmelo	200 lbs/yd3
Fine Aggregate:	Manufactured Coarse Sand Aggregates, LLC Fredericksted, St. Croix, VI	1901 lbs/yd3
Coarse Aggregate:	No. 89 Aggregates, LLC Fredericksted, St. Croix, VI	500 lbs/yd3
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	392 lbs/yd3
Water Reducer:	WRDA-60 Grace Construction Products Cambridge, MA 02140	6 oz/cwt
Miscellaneous:	Daratard 152	2 oz/cwt
Retarder:	Grace Construction Products Cambridge, MA 02140	As Required

Item No. 60103: Concrete (Stilling Basin, 42-inch)
Item No. 60104: Concrete (Stilling Basin, 24-inch)
Item No. 60104: Concrete (Stilling Basin, 42-inch)
Item No. 60104: Concrete (Stilling Basin, 72-inch)
Item No. 60104: Concrete (Stilling Basin, 5x3 Box Culvert)

Supplier: Spartan Concrete Products, LLC
Christiansted, St. Croix, VI

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
Minimum Cement Content – 611 lbs/yd³
Maximum Water/Cement Ratio – 0.44
Maximum Slump – 4.0 inches*
Minimum Air Content – 4.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Colon Type II Holcim Cement Puerto Cumarebo, Venezuela	680 lbs/yd ³
Flyash Cement:	Flyash Type F Ecologica Carmelo	70 lbs/yd ³
Fine Aggregate:	Manufactured Coarse Sand Canrico Quarries	1433 lbs/yd ³
Coarse Aggregate:	No. 67 Aggregates, LLC Frederiksted, St. Croix, VI	1000 lbs/yd ³
Coarse Aggregate:	No. 8 Aggregates, LLC Frederiksted, St. Croix, VI	300 lbs/yd ³
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	309 lbs/yd ³
Air Entrainment:	Darex AEA Grace Construction Products Cambridge, MA 02140	1.6 oz/cwt

Water Reducer:	WRDA-60 Grace Construction Products Cambridge, MA 02140	6 oz/cwt
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Heavy Materials, LLC
Frederiksted, St. Croix, VI

Mix Requirements:	Minimum Strength – 4000 PSI in 28 days Minimum Cement Content – 611 lbs/yd3 Maximum Water/Cement Ratio – 0.40 Maximum Slump – 4.0 inches * Minimum Air Content – 2.0 percent
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*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Caribe Type I Holcim Cement Puerto Cumarebo, Venezuela	611 lbs/yd3
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Fine Aggregate#1:	Barbuda Sand Barbuda	400 lbs/yd3
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Fine Aggregate#2:	Manufactured Coarse Sand Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd3
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Coarse Aggregate#1:	No. 57 Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd3
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Coarse Aggregate#2:	No. 8 Heavy Materials, LLC Frederiksted St. Croix, VI	300 lbs/yd3
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Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	250 lbs/yd3
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Air Entrainment:	Conplast PA 21 Fosroc	1.6 oz/cwt
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Water Reducer:	Conplast RP 264 Fosroc	6 oz/cwt
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Item No. 60201K, M, Q: 18-inch to 42-inch Pipe Culverts

Item No. 60206K, M, Q: 18-inch to 42-inch Pipe Culvert End Section

Class: III Reinforced Concrete Pipe

Supplier: Atlantic Pipe Corporation
Edif. Centro de Seguros
Ave. Ponce de Leon#701
Santurce, PR 00907

Bedding: No.67 Stone – Class B

Supplier: Heavy Materials, LLC
Frederiksted, St. Croix, VI

Item No. 60201V: 72-inch Pipe Culvert

Class: III Reinforced Concrete Pipe

Supplier: Atlantic Pipe Corporation
Edif. Centro de Seguros
Ave. Ponce de Leon#701
Santurce, PR 00907

Class: IV Reinforced Concrete Pipe

Supplier: Hanson Heidelberg Cement
Winter Garden, Florida

Bedding: No.67 Stone – Class B

Supplier: Heavy Materials, LLC
Frederiksted, St. Croix, VI

Item No. 60211EC: 5-foot Span, 3-foot Rise Reinforced Concrete Box Culvert,
Single Barrel

Item No. 60212HH: 8-foot Span, 8-foot Rise Reinforced Concrete Box Culvert,
Double Barrel

Item No. 60214HBDC: Box Culvert Wingwalls, 8-foot Height, Double Barrel,
Normal Skew, 45 Degree Skew, 2:1 Side Slopes

Supplier: Spartan Concrete Products, LLC
Christiansted, St. Croix, VI

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
 Minimum Cement Content – 611 lbs/yd³
 Maximum Water/Cement Ratio – 0.44
 Maximum Slump – 4.0 inches*
 Minimum Air Content – 4.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Colon Type II Holcim Cement Puerto Cumarebo, Venezuela	680 lbs/yd ³
Flyash Cement:	Flyash Type F Ecologica Carmelo	70 lbs/yd ³
Fine Aggregate:	Manufactured Coarse Sand Canrico Quarries	1433 lbs/yd ³
Coarse Aggregate:	No. 67 Aggregates, LLC Frederiksted, St. Croix, VI	1000 lbs/yd ³
Coarse Aggregate:	No. 8 Aggregates, LLC Frederiksted, St. Croix, VI	300 lbs/yd ³
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	309 lbs/yd ³
Air Entrainment:	Darex AEA Grace Construction Products Cambridge, MA 02140	1.6 oz/cwt
Water Reducer:	WRDA-60 Grace Construction Products Cambridge, MA 02140 Heavy Materials, LLC Frederiksted, St. Croix, VI	6 oz/cwt

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
 Minimum Cement Content – 611 lbs/yd³
 Maximum Water/Cement Ratio – 0.40
 Maximum Slump – 4.0 inches *
 Minimum Air Content – 2.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Caribe Type I Holcim Cement Puerto Cumarebo, Venezuela	611 lbs/yd ³
Fine Aggregate#1:	Barbuda Sand Barbuda	400 lbs/yd ³
Fine Aggregate#2:	Manufactured Coarse Sand Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd ³
Coarse Aggregate#1:	No. 57 Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd ³
Coarse Aggregate#2:	No. 8 Heavy Materials, LLC Frederiksted St. Croix, VI	300 lbs/yd ³
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	250 lbs/yd ³
Air Entrainment:	Conplast PA 21 Fosroc	1.6 oz/cwt
Water Reducer:	Conplast RP 264 Fosroc	6 oz/cwt

Item No. 60401: Manhole

Supplier: Atlantic Pipe Corporation
 Edif. Centro de Seguros
 Ave. Ponce de Leon#701
 Santurce, Puerto Rico 00907

Item No. 60403FA: Inlet, Type 6A

Item No. 60403GA: Inlet, Type 7A

Supplier: Spartan Concrete Products, LLC
Christiansted, St. Croix, VI

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
Minimum Cement Content – 611 lbs/yd³
Maximum Water/Cement Ratio – 0.44
Maximum Slump – 4.0 inches*
Minimum Air Content – 4.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR
(Superplasticizer)

Cement:	Cemento Colon Type II Holcim Cement Puerto Cumarebo, Venezuela	680 lbs/yd ³
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Flyash Cement:	Flyash Type F Ecologica Carmelo	70 lbs/yd ³
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Fine Aggregate:	Manufactured Coarse Sand Canrico Quarries	1433 lbs/yd ³
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Coarse Aggregate:	No. 67 Aggregates, LLC Frederiksted, St. Croix, VI	1000 lbs/yd ³
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Coarse Aggregate:	No. 8 Aggregates, LLC Frederiksted, St. Croix, VI	300 lbs/yd ³
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Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	309 lbs/yd ³
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Air Entrainment:	Darex AEA Grace Construction Products Cambridge, MA 02140	1.6 oz/cwt
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Water Reducer:	WRDA-60 Grace Construction Products Cambridge, MA 02140 Heavy Materials, LLC Frederiksted, St. Croix, VI	6 oz/cwt
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Mix Requirements: Minimum Strength – 4000 PSI in 28 days
 Minimum Cement Content – 611 lbs/yd³
 Maximum Water/Cement Ratio – 0.40
 Maximum Slump – 4.0 inches *
 Minimum Air Content – 2.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Caribe Type I Holcim Cement Puerto Cumarebo, Venezuela	611 lbs/yd ³
Fine Aggregate#1:	Barbuda Sand Barbuda	400 lbs/yd ³
Fine Aggregate#2:	Manufactured Coarse Sand Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd ³
Coarse Aggregate#1:	No. 57 Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd ³
Coarse Aggregate#2:	No. 8 Heavy Materials, LLC Frederiksted St. Croix, VI	300 lbs/yd ³
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	250 lbs/yd ³
Air Entrainment:	Conplast PA 21 Fosroc	1.6 oz/cwt
Water Reducer:	Conplast RP 264 Fosroc	6 oz/cwt
6A-Frame, Grates:	Neenah Foundry Company 2121 Brooks Avenue Neenah, WI 54957	
7A-Frame, Grates:	Da-Aceros De America, Inc. P.O. Box 383273 San Juan, PR 00936-3273	

Item No. 60426: Oil/Grit Separator (3K Baysaver)

Supplier: Baysaver Technologies, Inc.
1302 Rising Ridge Road, Unit 1
Mount Airy, MD 21771

Item No. 60801D: Paved Waterway, Type 4

Item No. 60902V: Portland Cement Concrete Curb and Gutter 13-inch Depth

Supplier: Spartan Concrete Products, LLC
Christiansted, St. Croix, VI

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
Minimum Cement Content – 611 lbs/yd³
Maximum Water/Cement Ratio – 0.44
Maximum Slump – 4.0 inches*
Minimum Air Content – 4.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR
(Superplasticizer)

Cement:	Cemento Colon Type II Holcim Cement Puerto Cumarebo, Venezuela	680 lbs/yd ³
Flyash Cement:	Flyash Type F Ecologica Carmelo	70 lbs/yd ³
Fine Aggregate:	Manufactured Coarse Sand Canrico Quarries	1433 lbs/yd ³
Coarse Aggregate:	No. 67 Aggregates, LLC Frederiksted, St. Croix, VI	1000 lbs/yd ³
Coarse Aggregate:	No. 8 Aggregates, LLC Frederiksted, St. Croix, VI	300 lbs/yd ³
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	309 lbs/yd ³
Air Entrainment:	Darex AEA Grace Construction Products	1.6 oz/cwt

Water Reducer:	Cambridge, MA 02140 WRDA-60 Grace Construction Products Cambridge, MA 02140 Heavy Materials, LLC Frederiksted, St. Croix, VI	6 oz/cwt
Mix Requirements:	Minimum Strength – 4000 PSI in 28 days Minimum Cement Content – 611 lbs/yd3 Maximum Water/Cement Ratio – 0.40 Maximum Slump – 4.0 inches * Minimum Air Content – 2.0 percent	
*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)		
Cement:	Cemento Caribe Type I Holcim Cement Puerto Cumarebo, Venezuela	611 lbs/yd3
Fine Aggregate#1:	Barbuda Sand Barbuda	400 lbs/yd3
Fine Aggregate#2:	Manufactured Coarse Sand Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd3
Coarse Aggregate#1:	No. 57 Heavy Materials, LLC Frederiksted St. Croix, VI	1200 lbs/yd3
Coarse Aggregate#2:	No. 8 Heavy Materials, LLC Frederiksted St. Croix, VI	300 lbs/yd3
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	250 lbs/yd3
Air Entrainment:	Conplast PA 21 Fosroc	1.6 oz/cwt
Water Reducer:	Conplast RP 264 Fosroc	6 oz/cwt

Item No. 61102QD: 12-inch Waterline, Polyvinyl Chloride (PVC) C-900

Item No. 61103TD: 18-inch Encasement Pipe Polyvinyl (PVC) C-900

Pipe Supplier: Vassallo
P.O. Box 800473
Coto Laurel, PR 00780-0473

Link Seals: Type M50 Raci Spacers
Verrian, British Columbia

Supplier: Public Works Marketing
Dallas, TX 75355

Prime Contractor: Virgin Islands Paving, Inc.

Item No. 61104B: Valve, Air Release

Manufacturer: GA Industries
Pittsburgh, PA

Supplier: USA Blue Book
Waukegan, IL

Item No.61104DQ: Valve, Gate, 12-inch

Item No. 61106: Fire Hydrant

Manufacturer: American AVK Company
Dallas TX

Supplier: Ferguson International
12500 Jefferson Avenue
Newport News, VA 23602

Prime Contractor: Virgin Islands Paving, Inc.

Item No. 61202ND: 8-inch Sewer Line, Plastic

Supplier: Vassallo
P.O. Box 800473
Coto Laurel, PR 00780-0473

Item No. 61203QA: 12-inch Encasement Pipe, Cast Iron

Supplier: Vassallo
P.O. Box 800473
Coto Laurel, PR 00780-0473
Manufacturer: US Pipe and Foundry
P.O. Box 10406
Birmingham, AL 35202

Item No. 61901CG: Fence, Chain Link Type, 72-inch Height

Supplier: Caribbean Building Supply.
109 NW 15 Place
Pompano Beach, FL 33060

Item No. 61901CL: Fence, Chain Link Type, 96-inch Height

Manufacturer: Protecto Fence MFG. Company
100 Road 866 Sector Arenas
Toa Boja, PR 00949

Supplier: Rafael J. Nido, Inc.
P.O. Box 11978
Caparra Heights Station
San Juan, PR 00922

Item No. 61910: Fence, Rock Fall Netting

Supplier: Maccaferri, Inc.
Administrative Office
10303 Governor Lane Blvd.
Williamsport, MD 21795
Grout: Wil-X- Cement – Hydraulic Cement K and Type E-1
Supplier: Williams Form Engineering Corp.
251 Rooney Road
Golden, CO 80108

Item No. 62101: Monument

Supplier: Berntsen International Inc.
P.O. Box 8670
Madison, WI 53708

Item No. 62801B: ROW Sprigging (vetiver planting)

Supplier: Agriflora
P.O. Box 8547
Caguas, PR 00726
787.864.3356

Item No. 62901B: Erosion Control Mat Type 2

Product: ECSC-2
Eastcoast Erosion Blankets
443 Bricker Road
Bernville, PA 19506

Supplier: J M Caribbean Distributors, Inc.
MSC 443 Winston Churchill Ave.
San Juan, PR 00926-6023

Item No. 62901D: Erosion Control Mat Type 4

Product: ECP-2
Eastcoast Erosion Blankets
443 Bricker Road
Bernville, PA 19506

Supplier: J M Caribbean Distributors, Inc.
MSC 443 Winston Churchill Ave.
San Juan, PR 00926-6023

Item No. 62901E: Erosion Control Mat Type 5

Product: 46P TRM

Manufacturer: Hanes Geo Components
815 Buxton Street
Winston-Salem, NC 27101

Supplier: J M Caribbean Distributors, Inc.
MSC 443 Winston Churchill Ave.
San Juan, PR 00926-6023

Item No. 66603: CM No. 0004, 12/04/08, Contract Modification Work (3'x5' Box Culvert Headwall)

Supplier: Spartan Concrete Products, LLC
Christiansted, St. Croix, VI

Mix Requirements: Minimum Strength – 4000 PSI in 28 days
Minimum Cement Content – 611 lbs/yd³
Maximum Water/Cement Ratio – 0.44
Maximum Slump – 4.0 inches*
Minimum Air Content – 4.0 percent

*Note: Slump can be increase up to 8-inches with the addition of a HRWR (Superplasticizer)

Cement:	Cemento Colon Type II Holcim Cement Puerto Cumarebo, Venezuela	680 lbs/yd ³
Flyash Cement:	Flyash Type F Ecologica Carmelo	70 lbs/yd ³
Fine Aggregate:	Manufactured Coarse Sand Canrico Quarries	1433 lbs/yd ³
Coarse Aggregate:	No. 67 Aggregates, LLC Frederiksted, St. Croix, VI	1000 lbs/yd ³
Coarse Aggregate:	No. 8 Aggregates, LLC Frederiksted, St. Croix, VI	300 lbs/yd ³
Water:	Potable Water VI WAPA Christiansted, St. Croix, VI	309 lbs/yd ³
Air Entrainment:	Darex AEA Grace Construction Products Cambridge, MA 02140	1.6 oz/cwt
Water Reducer:	WRDA-60 Grace Construction Products Cambridge, MA 02140	6 oz/cwt

Item No. 66607: CM No. 0003, 04/28/08, Contract Modification Work (Turf Reinforcement Mat (TRM) Type 5(B) Geotextile

Product: MacMat N20
Maccaferri, Inc.
Administrative Office
10303 Governor Lane Blvd.
Williamsport, MD 21795

Item No. 66607: CM No. 0003, 04/28/08, Contract Modification Work (Reinforced Geogrid)

Product: MacGrid WB1
Maccaferri, Inc.
Administrative Office
10303 Governor Lane Blvd.
Williamsport, MD 21795

B) Experimental or New Features-

None

C) Changes and Problems –

1. Changes

Contract Modification (CM) No. 0001: was issued to add three new DELPHI account numbers to the contract.

No change in contract amount.

No change in contract time.

CM No. 0002: was issued to add one new DELPHI account number.

No change in contract amount.

No change in contract time.

CM No. 0003: was issued to decrease the quantity of one pay item: Item 60212H – 8 x 8 Reinforced Concrete Culvert, Double Barrel, and create four new pay items: Item 25501-Mechanically Stabilized Earth Wall (MSE), Item 66607-Turf Reinforcement Mat (TRM), Item 66607-Reinforced Geogrid, Item 66601-Re-steel not used due to the reduction of 30 foot length. The contract completion date was extended by 45 days to June 12, 2008.

Net contract increase: \$144,127.54

Contract time increase: 45 days

CM No. 0004: was issued to increase or decrease existing pay quantities and add three additional pay items. Item 66601 – Contract Modification Work (Additional Survey Work); item 66601 – Contract Modification Work (Clearing of Historical Site); and item 66603 – Contract Modification Work (Box Culvert Headwall.) This CM also extended the contract completion date by 145 calendar days to November 4, 2008.

Net contract decrease = (\$13.44) Contract time increase = 145 days

CM No. 0005: was issued to increase the quantity of item 20421 – Rock Excavation due to actual field measurements and to decrease several existing pay quantity items. This also included a time extension of 108 days (70 calendar days due to additional rock excavation work and 38 calendar days because of unusual severe weather for the months of September and October 2008). This extends the contract completion date to February 20, 2009.

Net contract increase = \$409,998.40 Contract time increase = 108 days

CM No. 0006: was issued to increase the contract time by 45 calendar days due to the additional rock excavation work encountered during the course of the project. This extended the contract completion date April 6, 2009.

No change in contract amount. Contract time increase = 45 days

CM No. 0007: was issued to adjust/increase or decrease quantities of several existing pay items and to add two new pay items. Item 66601 – Cleaning Cemetery Debris and item: 66603 – Compensate Contractor for Rock Bolt (Item 25901K) not used. This CM extended the contract completion date by 90 calendar days (76 calendar days for replacement of the 72-inch RCP and 14 calendar days due to the cemetery clean up) to July 5, 2009.

Net contract decrease = (\$344.12) Contract time increase = 90 days

CM No. 0008: was issued to adjust/increase or decrease quantities of several existing pay items and one new pay item. Item 66601 – Contract Modification Work (Full Settlement 72-inch Class III RCP Claim) was added. This CM extended contract completion date by 47 calendar days. This extended the contract completion date to August 21, 2009.

Net contract increase = \$119,999.98 Contract time increase = 47 days

CM No. 0009: was issued to adjust/increase or decrease quantities of several existing pay items and add one new pay item. Item 20409 – Roadway Embankment was added to correct the actual measured quantity of roadway embankment required to complete the contract.

Net contract decrease = (\$485.52) No change in contract time.

CM No. 0010: was issued to finalize the project quantities.

Net contract decrease = (\$9,641.69)

No change in contract time.

Significant Overruns and Underruns

Item 15703: Silt Fence (Wire-backed) was overestimated and resulted in an underrun of 46.53 percent of the original estimated quantity.

Item 15705: Slope Drains was overestimated and resulted in an underrun of 78.07 percent of the original estimated quantity.

Item 15716: Inlet Protection was overestimated and resulted in an underrun of 25.0 percent of the original estimated quantity.

Item 15718: Stabilized Construction Entrance was not all required and this resulted in an underrun of 33.33 percent of the original contract quantity.

Item 15722: Temporary Diversion Berm was overestimated and resulted in an underrun of 69.40 percent of the original estimated quantity.

Item 15724: Temporary Diversion Channel was overestimated and resulted in an underrun of 76.81 percent of the original estimated quantity.

Item 15801: Watering for Dust Control was underestimated and resulted in an overrun of 42.85 percent of the original estimated quantity.

Item 20101: Clearing and Grubbing increased due to actual field measurements and this resulted in an overrun of 24.45 percent of the original contract quantity.

Item 20302W: Removal of Guardrail was deleted under this contract for safety concerns and was be added on Contract 3. This change resulted in an underrun of 100.0 percent of the original contract quantity.

Item 20401: Roadway Excavation was decreased due to actual field measured quantities and resulted in an underrun of 38.88 percent of the original contract quantity.

Item 20421: Rock Excavation was increased due to actual field measured quantities and resulted in an overrun of 109.99 percent of the original contract quantity.

Item 25101C: Placed Rip Rap, Class 3 was decreased due to actual field measurements and resulted in an underrun of 20.08 percent of the original contract quantity.

Item 25101C: Placed Rip Rap Class 3 (temp outlet protection) was deleted and resulted in an underrun of 100.0 percent of the original contract quantity.

Item 25601: Ground Anchor, 1 3/8" Diameter All-Thread Bar Ground Anchor it was determined by EFLHD Geotech department that a quantity of 3 was not required and therefore were deleted and this resulted in an underrun of 15.0 percent of the original contract quantity.

Item 25902K: Rockbolt, Cement Grouted, 20 Feet Long was deleted as per EFLHD Geotechnical department recommendation and therefore resulted in an underrun of 100.0 percent of the original contract quantity.

Item 30101Z: Aggregate Base, Grading C or D the quantity was decreased due to actual field measurement and quality pay level. This resulted in an underrun of 42.51 percent of the original contract quantity.

Item 40101BC: Hot Asphalt Concrete Pavement Class B, Grading C it was determined that the estimated quantity for this item and 40101BED had been reversed and this resulted in an overrun of 63.90 percent of the original contract quantity.

Item 40101BED: Hot Asphalt Concrete Pavement Class B, Grading E, Type 4 Pavement Smoothness it was determined that the estimated quantities for this item and 40101BC had been reversed and the actual quality pay level for this item was reduced. This resulted in an underrun of 47.02 percent of the original contract quantity.

Item 41202: Tack Coat was underestimated and this resulted in an underrun of 638.0 percent of the original contract quantity.

Item 60201K: 18-inch Pipe Culvert was overestimated due to a section of pipe was included in the contract that was actually under Contract 2. This resulted in an underrun of 46.67 percent of the original contract quantity.

Item 60201V: 72-inch Pipe Culvert was underestimated due to erroneous survey data and this resulted in an overrun of 60.0 percent of the original contract quantity.

Item 60206K: End Section for 18-inch Pipe Culvert was overestimated due to a section of pipe was included in the contract that was actually under Contract 2. This resulted in an underrun of 50.0 percent of the original contract quantity.

Item 60206V: End Section for 72-inch Pipe Culvert was deleted due to an error in the original estimate and this resulted in an underrun of 100.0 percent of the original contract quantity.

Item 60211EC: 5-foot Span, 3-foot Rise Reinforced Concrete Box Culvert, Single Barrel was reduced due to actual field measurement and quality pay level.

This resulted in an underrun of 16.91 percent of the original contract quantity.
Item 60214CABC: Box Culvert Wingwalls, 3-foot Height, 15 Degree Skew, 2:1 Side Slopes was deleted due to actual field conditions and replaced with a headwall. This resulted in an underrun of 100.0 percent of the original contract quantity.

Item 60401: Manhole was underestimated and resulted in overrun of 25.0 percent of the original contract quantity.

Item 61103TD: 18-inch Encasement Pipe, Polyvinyl Chloride (PVC) C-900 was decreased due to actual length required and this resulted in an underrun of 18.57 percent of the original contract quantity.

Item 61501B: Portland Cement Concrete Sidewalk it was determined that the sidewalk on Line DD would be deleted and added to Contract 3. This resulted in an underrun of 100.0 percent of the original contract quantity.

Item 61902CL: Gate, Chain Link Type 22-foot Width was not required and was deleted. This resulted in an underrun of 100.0 percent of the original contract quantity.

Item 61910: Fence, Rock Fall Netting (Contingency) was not required and this resulted in an underrun of 100.0 percent of the original contract quantity.

Item 62101: Monument after the contract bid it was determined by EFLHD Highway Design that additional monuments were required. This resulted in an overrun of 17.44 percent of the original contract quantity.

Item 62404F: Placing Conserved Topsoil, 2-inch Depth it was determined by EFLHD that the roadway areas that required topsoil would be deleted due to the next contract timing. This resulted in an underrun of 72.69 percent of the original contract quantity.

Item 62501B: Seeding, Hydraulic Method was reduced due to reducing the topsoil quantity and this resulted in an underrun of 80.33 percent of the original contract quantity.

Item 62504B: Mulching, Hydraulic Method was reduced due to reducing the topsoil quantity and this resulted in an underrun of 81.97 percent of the original contract quantity.

Item 62508: Water was underestimated and this resulted in an overrun of 25.0 percent of the original contract quantity.

Item 62801B: ROW Sprigging (vetiver planting) changes in slopes reduced the overall areas for the sprigging. This resulted in an underrun of 39.63 percent of the original contract quantity.

Item 62901B: Erosion Control Mat Type 2 this material was reduced due to poor performance in a tropical climate. This resulted in an underrun of 86.5 percent of the original contract quantity.

Item 62901D: Erosion Control Mat Type 4 was overestimated and this resulted in an underrun of 51.85 percent of the original contract quantity.

Item 63301: Sign Installation the VI DPW required two project signs and this resulted in an overrun of 100.0 percent of the original contract quantity.

Item 63401HA: Pavement Marking, Type H, Solid was deleted and this resulted in an underrun of 100.0 percent of the original contract quantity.

Item 63402H: Pavement Markings, Type H was deleted and this resulted in an underrun of 100.0 percent of the original contract quantity.

2. Problems

Original survey data had errors due to the use of aerial topography to get existing ground elevations. Being in the tropics, this area was heavily over grown with vegetation which caused errors and made the quantities of earth materials unbalanced.

D) Recommendations –

It is recommended to get actual ground shots in the field rather than aerial topography in order to eliminate future errors and costs associated with the errors.

E) Claims –

On April 2, 2009, a preliminary inspection was conducted from Station 54+50 – 75+50. During the inspection, it was discovered that the placement of the 72-inch RCP Class III, located at 73+50±, had several damaged sections. It was decided that the 72-inch RCP Class III would be removed and replaced with 72-inch Class IV.

The contractor, Virgin Islands Paving Inc., submitted a certified claim dated August 6, 2009, for their cost associated with the removal and replacement of the failed 72-inch RCP Class III. The claim was in the amount of \$454,339.55.

The contractor submitted a revised certified claim dated August 26, 2009, in the amount of \$461,104.70. Adjustments were made through negotiations to have the liquidated damages waved by EFL and the contractor accepted full settlement of the claim in the amount of \$300,000.00.

IV) **CONSTRUCTION ENGINEERING**

A) Project Personnel –

J. Bradley Blevins, Project Engineer/COTR
Thomas Jones, Project Inspection (October 1, 2007, to June 6, 2008)
David Carney, Project Inspection (October 13, 2008, to February 27, 2009)
Helson Roman-Soto, Project Inspection (April 13, 2009, to July 31, 2009)

B) Contract Inspection –

None.

C) Other Contacts –

Government of the Virgin Islands, Department of Public Works (VIDPW):

Aloy Neilsen, VI DPW until retired.
Wystan Benjamin, Highway Program Manager, VI DPW
John Paul David, Construction Program Manager, VI DPW

D) Partnering –

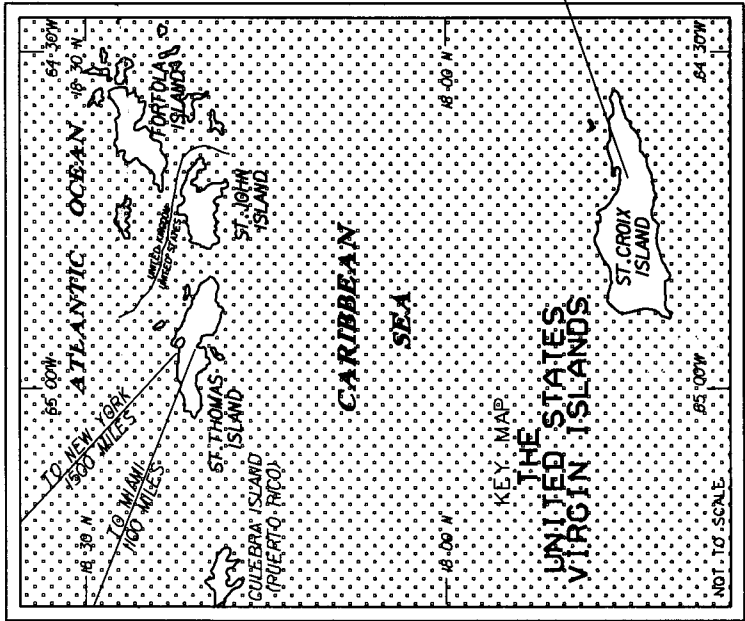
Informal and partnering was successfully implemented on this project, and a good relationship was maintained between all shareholders.

THE GOVERNMENT OF THE VIRGIN ISLANDS
OF THE UNITED STATES

PLANS FOR PROPOSED

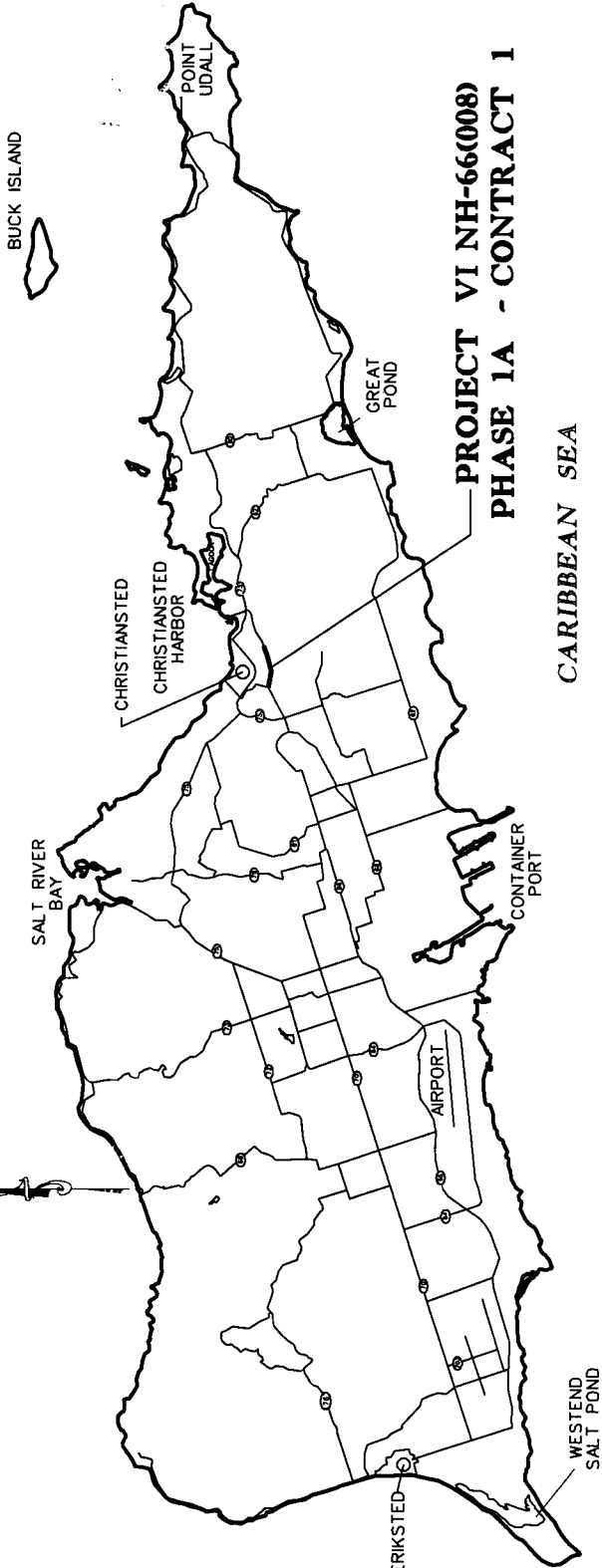
PROJECT VI NH-66(008)

GRADING AND DRAINAGE FOR THE
CHRISTIANSTED BYPASS
PHASE 1A - CONTRACT 1
FROM ROUTE 70-CONTENTMENT ROAD
TO QUEEN CROSS STREET



PROJECT VI NH-66(008)
PHASE 1A - CONTRACT 1

CARIBBEAN SEA



CARIBBEAN SEA

ST. CROIX ISLAND

NOT TO SCALE

LEGEND

PROJECTED CENTERLINE	EXISTING	PROPOSED
STAKED CENTERLINE	1 T	1 T
EXISTING ROADWAY	1 P	1 P
RIVERS	1 W	1 W
CREEKS AND INTERMITTENT DRAINAGE	1 W	1 W
MARSH OR SWAMP	1 W	1 W
TREELINE	1 W	1 W
TREES	1 W	1 W
SOIL BORINGS	1 W	1 W
TELEPHONE JUNCTION BOX	1 W	1 W
TELEPHONE LINE	1 W	1 W
UNDERGROUND ON POLES	1 W	1 W
POWER LINE	1 W	1 W
UNDERGROUND ON POLES	1 W	1 W
PIPE LINE (GAS/WATER/OIL/SEWER)	1 W	1 W
PIPE CULVERT WITH INLET	1 W	1 W
SINGLE OR MULTIPLE PIPE CULVERT WITH HEADWALL AND WINGWALL	1 W	1 W
SINGLE OR MULTIPLE PIPE CULVERT WITH END SECTION	1 W	1 W
PIPE CULVERT IN PROFILE	1 W	1 W
SINGLE OR MULTIPLE BOX CULVERT WITH HEADWALL AND WINGWALL	1 W	1 W
FENCE WITH GATE	1 W	1 W
GUARDRAIL	1 W	1 W
RETAINING WALL	1 W	1 W
CONSTRUCTION LIMITS	1 W	1 W
TOP OF CUT	1 W	1 W
TOE OF FILL	1 W	1 W
TRANSITION	1 W	1 W

PROJECT MANAGER	LEAD DESIGNERS
A. PATEL	S. BEALE

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
B1	LOCATION MAP
B2	CENTERLINE REFERENCES
C1-C5	TYPICAL SECTIONS
D1-D4	TABULATION OF QUANTITIES
E1-E7	SCHEDULES AND SUMMARIES
F1-F8	PLAN AND PROFILES
G1-G7	UTILITY RELOCATION PLANS
H1-H9	EROSION CONTROL NARRATIVE AND PLANS
J1-J4	ROW PLANS
K1-K6	TRAFFIC CONTROL PLANS
L1-L5	DRAINAGE CROSS SECTIONS
M1-M2	STANDARDS AND DETAILS
N1-N25	DESIGN CROSS SECTIONS

DESCRIPTION OF PROJECT :

Grading, Drainage, Anchor Block, Ground Anchors
Paving, Erosion Control and other work.

PROJECT LENGTH 0.98 MILES

SPECIFICATIONS:

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

DESIGN DESIGNATION

ADT(2006)	0
ADT(2026)	20,000
DHV	1,500
D	50/50
V(MPH)	40
e	6%
T	10%

CHRISTIANSTED
BY-PASS

PLANS PREPARED BY

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

EASTERN FEDERAL LANDS HIGHWAY DIVISION

STERLING, VIRGINIA

OCTOBER 2006

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	NH-66(008)	B1	175

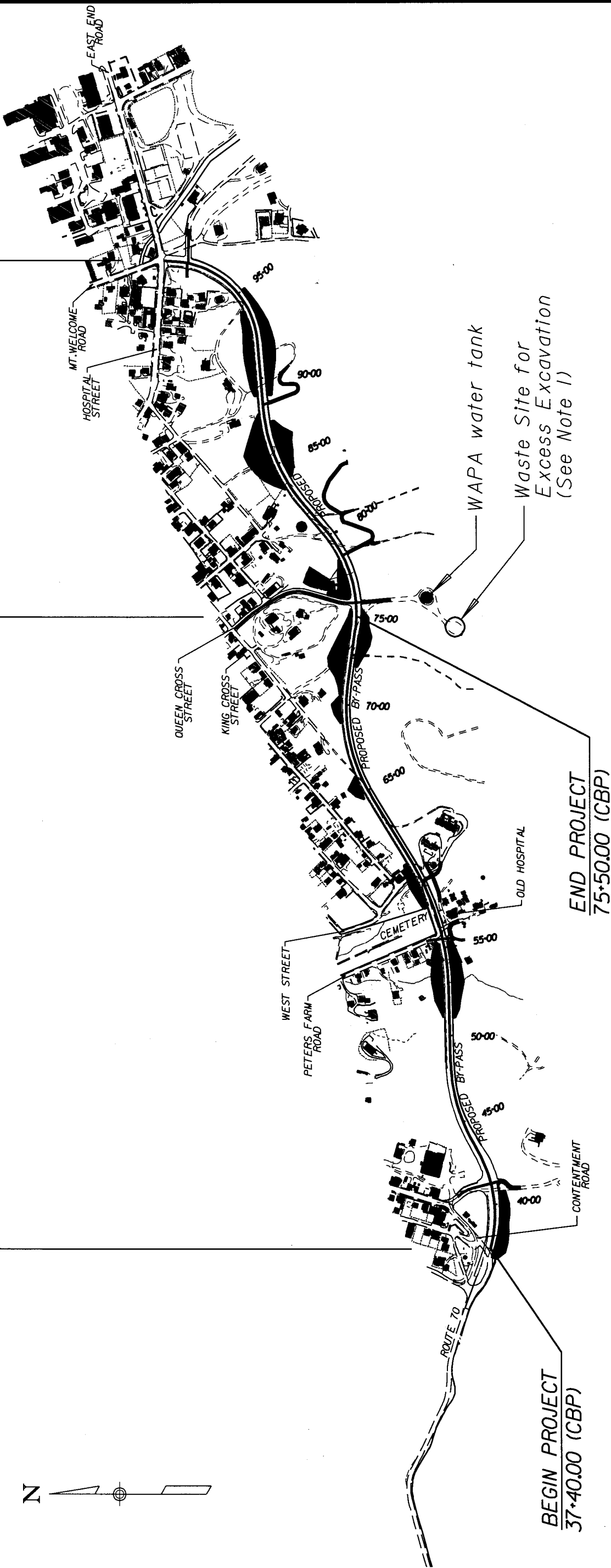
VI NH 66(008)

PHASE 1A - CONTRACT 1

VI NH 66(008)

PHASE 1A - CONTRACT 2

(BY OTHERS)



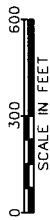
- Symbols

CBP = Christiansted By-pass
- Notes :

1. Access to the waste site will be via Line 11 (existing road to WAPA water tank). Grade water tank access road where required for adequate waste site haul road, as directed by the CO. Maintain access to water tank at all times.

CHRISTIANSTED BY-PASS

LOCATION MAP



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	NH-66(008)	C1	175

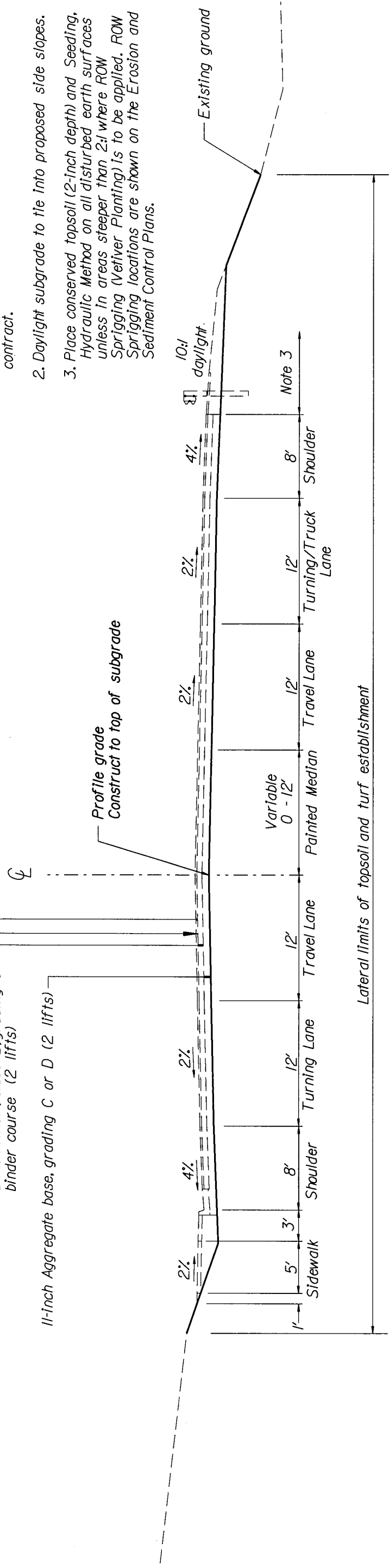
Notes :

1. FUTURE work shown for information only. Construct proposed profile grade to top of subgrade. Aggregate, asphalt pavement, curb&gutter, sidewalk and guardrail will be constructed under a future contract.
2. Daylight subgrade to tie into proposed side slopes.
3. Place conserved topsoil (2-inch depth) and Seeding, Hydraulic Method on all disturbed earth surfaces unless in areas steeper than 2:1 where ROW Sprigging (Vegeter Planting) is to be applied. ROW Sprigging locations are shown on the Erosion and Sediment Control Plans.

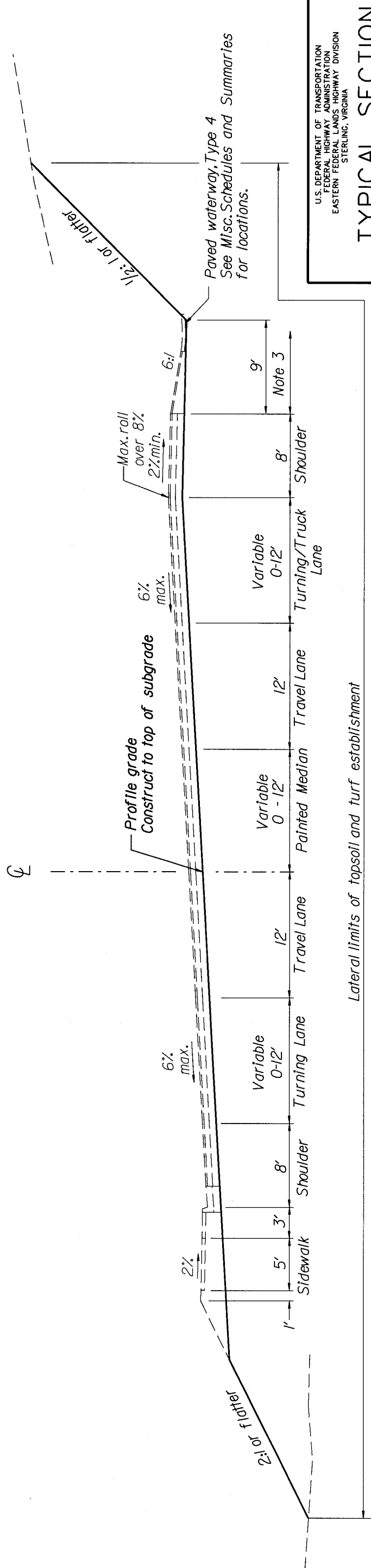
PROPOSED

FUTURE PAVEMENT STRUCTURE

- 2-inch HACP, class B grading E surface course, type 4 pavement smoothness
- Asphalt tack coat
- 5-inch HACP, class B, grading C binder course (2 lifts)
- 11-inch Aggregate base, grading C or D (2 lifts)



TANGENT SECTION



SUPERELEVATED SECTION

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

TYPICAL SECTION

CHRISTIANSTED BY-PASS
37+40 TO 45+75
72+00 TO 75+50

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	NH-66(008)	C2	175

FUTURE PAVEMENT STRUCTURE

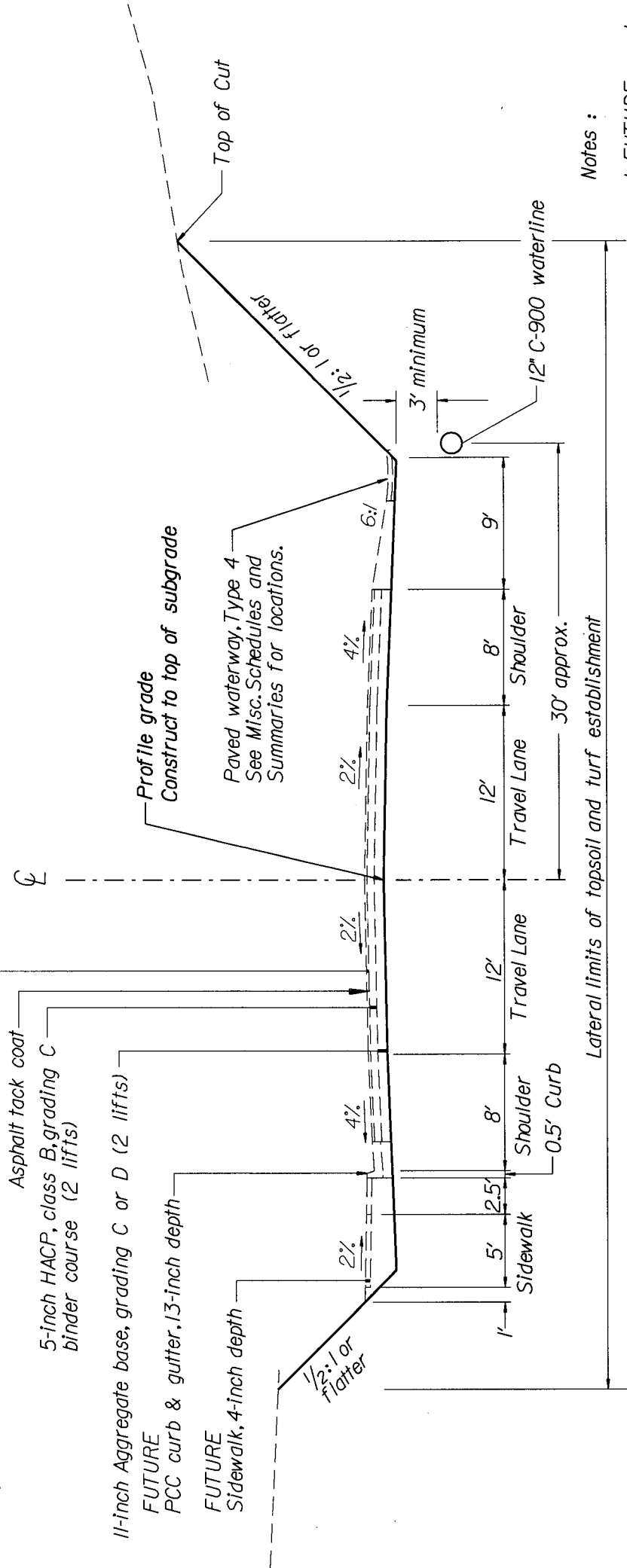
2-inch HACP, class B grading E surface course, type 4 pavement smoothness

Asphalt tack coat
5-inch HACP, class B, grading C binder course (2 lifts)

11-inch Aggregate base, grading C or D (2 lifts)

FUTURE
PCC curb & gutter, 13-inch depth

FUTURE
Sidewalk, 4-inch depth



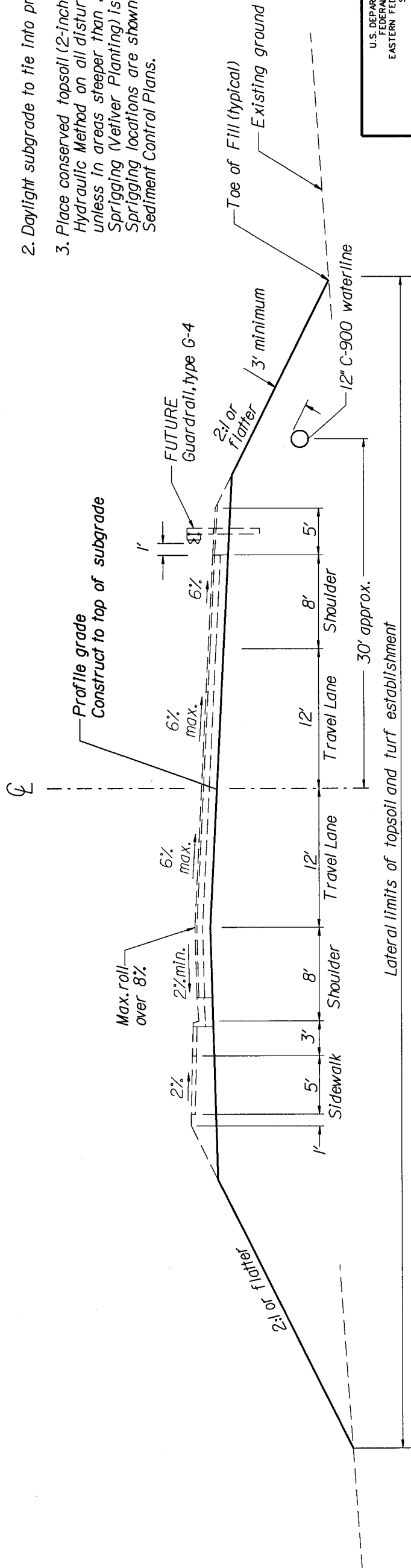
Notes :

1. FUTURE work shown for information only.
Construct proposed profile grade to top of subgrade.
Aggregate, asphalt pavement, curb & gutter, sidewalk and guardrail will be constructed under a future contract.

2. Daylight subgrade to tie into proposed side slopes.

3. Place conserved topsoil (2-inch depth) and Seeding, Hydraulic Method on all disturbed earth surfaces unless in areas steeper than 2:1 where ROW Sprigging (Veriver Planting) is to be applied. ROW Sprigging locations are shown on the Erosion and Sediment Control Plans.

TANGENT SECTION



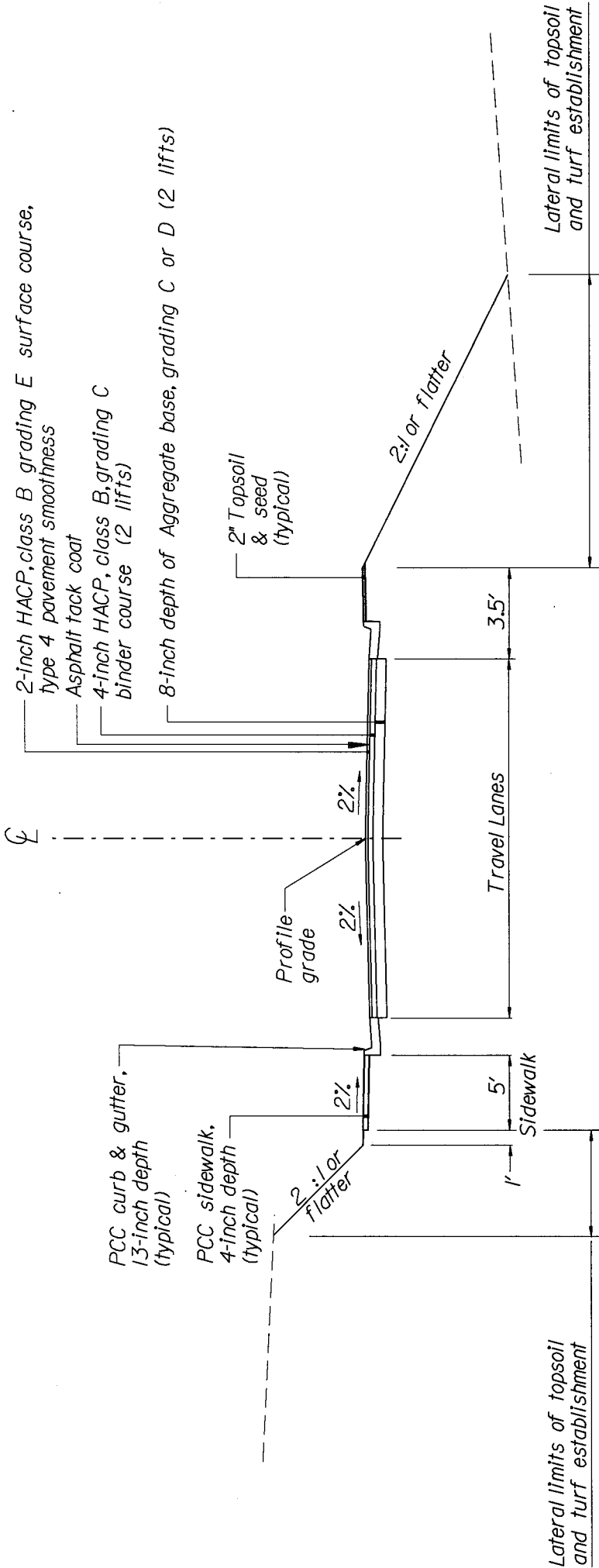
SUPERELEVATED SECTION

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

TYPICAL SECTION
CHRISTIANSTED BY-PASS
45+75 TO 61+00

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	NH-66(008)	C5	175

PROPOSED PAVEMENT STRUCTURE



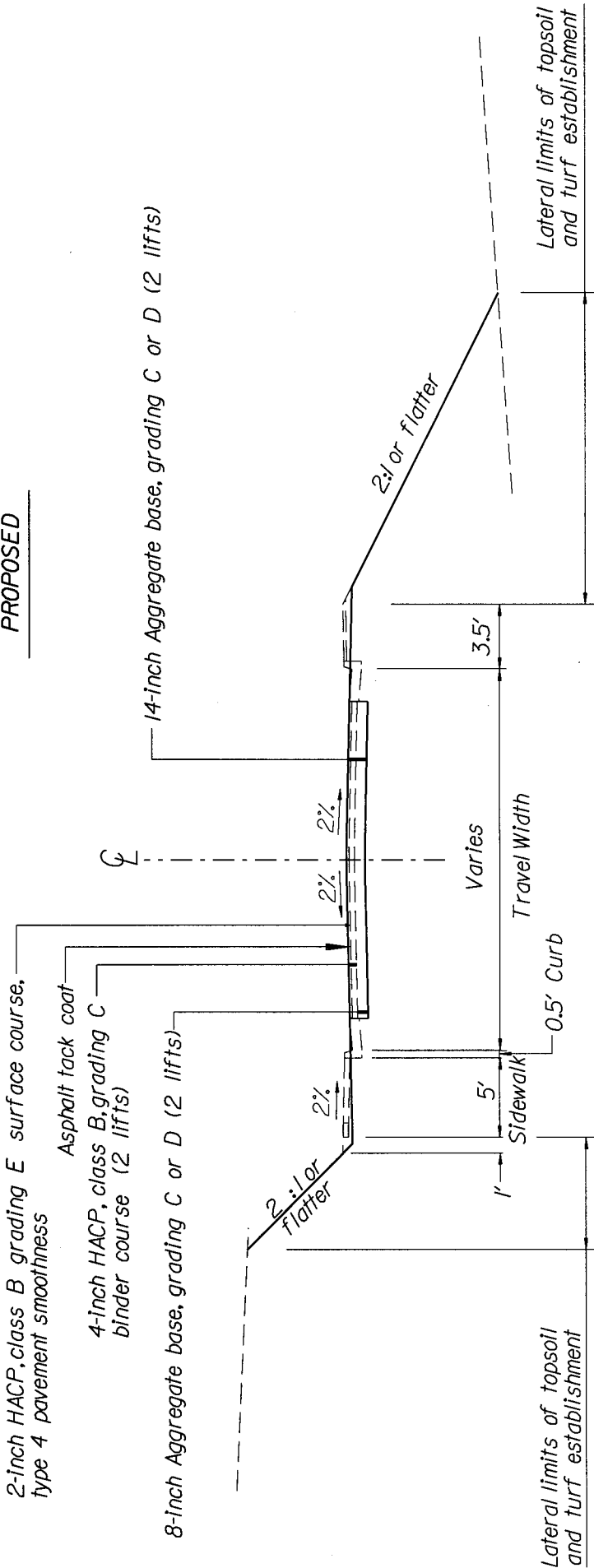
NOTES:

1. Place 5' wide sidewalk along access and sideroads where shown on the plans.
2. Place PCC curb and gutter where shown on the table.
3. Travel lane width varies at intersections and tie-ins to existing roads.

Travel Width	Lines	Sidewalk	Curb & Gutter
10'	AA,CC	No	No
15'	EE,FF,GG	No	No
20'	33,BB	No	No
24'	DD	Yes	Yes
30'	8	No	No

PAVED SECTION
LINES DD, EE, FF, GG

FUTURE PAVEMENT STRUCTURE:



AGGREGATE SECTION

LINES AA, BB, CC, 8, 33

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

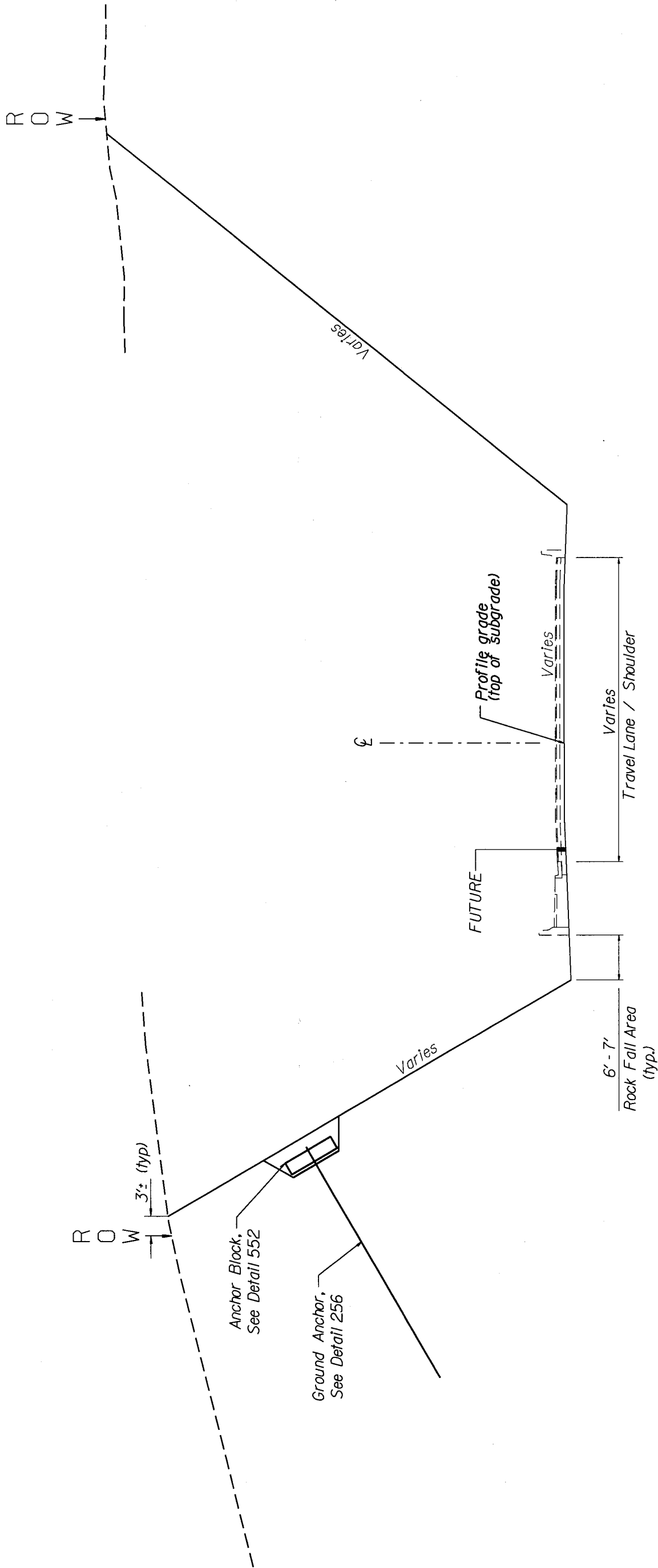
TYPICAL SECTION

DRIVEWAYS & SIDEROADS

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	NH-66(008)	C4	175

Notes :

1. FUTURE work shown for information only.
Construct proposed profile grade to top of subgrade.
Aggregate, asphalt pavement, curb&gutter, sidewalk
and concrete barrier will be constructed under a future
contract.
2. See Detail 552 for Anchor Block location and size.
3. Excavate Rock to 6 inches below top of subgrade.

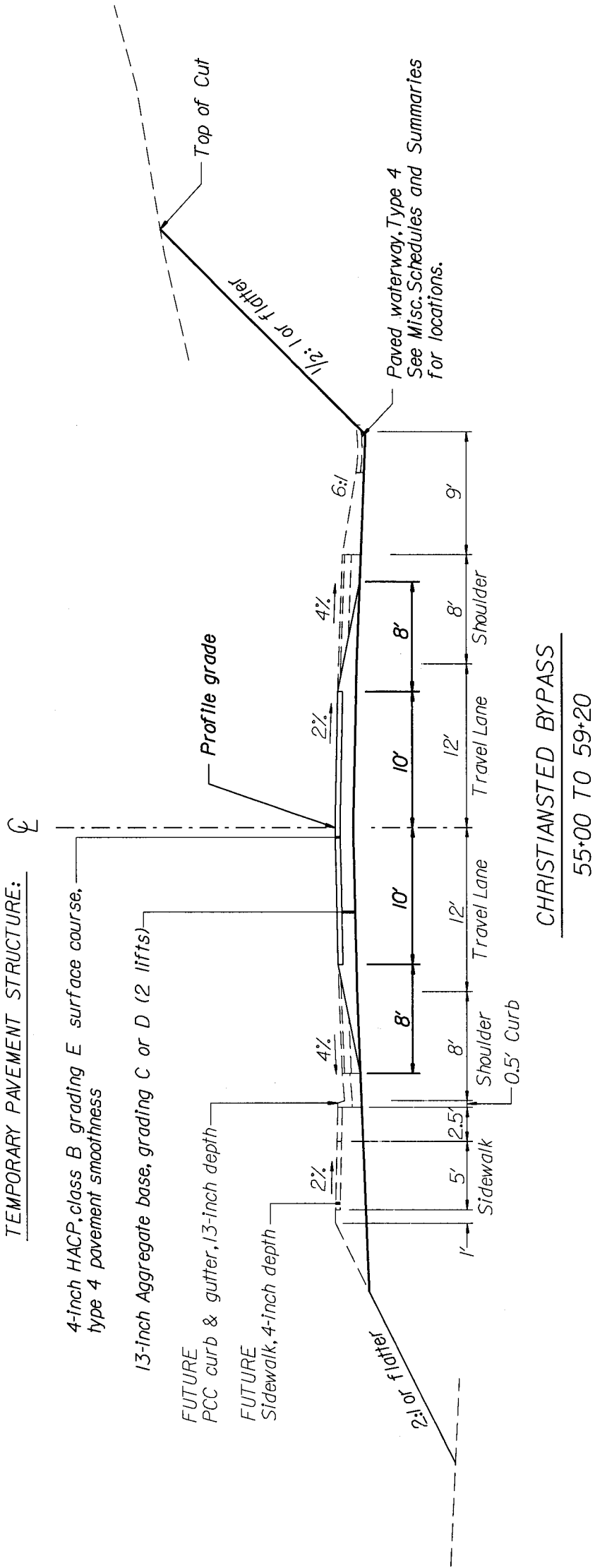


U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

TYPICAL SECTION
CHRISTIANSTED BY-PASS
CUT A
with ANCHOR BLOCKS

CUT A
WITH ANCHOR BLOCKS
AND GROUND ANCHORS

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	NH-66(008)	C3	175



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

TYPICAL SECTION

CHRISTIANSTED BY-PASS

TEMPORARY PAVEMENT

TABULATION OF BIDS

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

State: VI
County: ST. CROIX
US VI DPW

Opened at: St Croix, VI
By: P. Schaad
Date: 12/07/06

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

Signed: Peggy Schaad

Title: Contract Specialist Date: Dec 7, 2006

Contract Awarded to: _____ Date: _____

Contractor	Bid Amount	Responsive
Virgin Islands Paving, Inc. P. O. Box 4720 Kingshill, VI 00851-4720	6,726,648.50	
Engineer's Estimate	4,325,000.00	

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
15101	LPSM	MOBILIZATION			
	Virgin Islands Paving, Inc.		ALL	650,000.00	650,000.00
	ENGINEER'S ESTIMATE			292,685.00	292,685.00
15201	LPSM	CONSTRUCTION SURVEY AND STAKING			
	Virgin Islands Paving, Inc.		ALL	150,000.00	150,000.00
	ENGINEER'S ESTIMATE			98,500.00	98,500.00
15401	LPSM	CONTRACTOR TESTING			
	Virgin Islands Paving, Inc.		ALL	75,000.00	75,000.00
	ENGINEER'S ESTIMATE			84,000.00	84,000.00
15703	LNFT	SILT FENCE (Wire-backed)			
	Virgin Islands Paving, Inc.		10,400	9.50	98,800.00
	ENGINEER'S ESTIMATE			7.00	72,800.00
15705	LNFT	SLOPE DRAINS			
	Virgin Islands Paving, Inc.		1,140	15.00	17,100.00
	ENGINEER'S ESTIMATE			15.00	17,100.00
15716	EACH	INLET PROTECTION			
	Virgin Islands Paving, Inc.		4	5,000.00	20,000.00
	ENGINEER'S ESTIMATE			200.00	800.00
15718	EACH	STABILIZED CONSTRUCTION ENTRANCE			
	Virgin Islands Paving, Inc.		3	5,600.00	16,800.00
	ENGINEER'S ESTIMATE			2,200.00	6,600.00
15722	LNFT	TEMPORARY DIVERSION BERM			
	Virgin Islands Paving, Inc.		3,350	22.00	73,700.00
	ENGINEER'S ESTIMATE			22.00	73,700.00
15724	LNFT	TEMPORARY DIVERSION CHANNEL			
	Virgin Islands Paving, Inc.		1,600	30.00	48,000.00
	ENGINEER'S ESTIMATE			20.00	32,000.00
15801	MGAL	WATERING FOR DUST CONTROL			
	Virgin Islands Paving, Inc.		210	214.00	44,940.00
	ENGINEER'S ESTIMATE			36.00	7,560.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
20101	ACRE	CLEARING AND GRUBBING			
	Virgin Islands Paving, Inc.		12.0	4,000.00	48,000.00
	ENGINEER'S ESTIMATE			2,200.00	26,400.00
20301AA	EACH	REMOVAL OF MANHOLE (sanitary sewer)			
	Virgin Islands Paving, Inc.		1	5,000.00	5,000.00
	ENGINEER'S ESTIMATE			600.00	600.00
20301AB	EACH	REMOVAL OF STRUCTURE			
	Virgin Islands Paving, Inc.		3	10,000.00	30,000.00
	ENGINEER'S ESTIMATE			5,000.00	15,000.00
20302W	LNFT	REMOVAL OF GUARDRAIL			
	Virgin Islands Paving, Inc.		180	10.00	1,800.00
	ENGINEER'S ESTIMATE			10.00	1,800.00
20304AL	LPSM	REMOVAL OF MISCELLANEOUS ITEMS (sheds, cistern, conc. foundation)			
	Virgin Islands Paving, Inc.		ALL	30,000.00	30,000.00
	ENGINEER'S ESTIMATE			4,400.00	4,400.00
20401	CUYD	ROADWAY EXCAVATION			
	Virgin Islands Paving, Inc.		98,446	15.25	1,501,301.50
	ENGINEER'S ESTIMATE			7.00	689,122.00
20421	CUYD	ROCK EXCAVATION			
	Virgin Islands Paving, Inc.		21,223	45.00	955,035.00
	ENGINEER'S ESTIMATE			20.50	435,071.50
25101C	CUYD	PLACED RIPRAP, CLASS 3			
	Virgin Islands Paving, Inc.		1,300	115.00	149,500.00
	ENGINEER'S ESTIMATE			130.00	169,000.00
25101C	CUYD	PLACED RIPRAP, CLASS 3 (temp outlet protect)			
	Virgin Islands Paving, Inc.		3	125.00	375.00
	ENGINEER'S ESTIMATE			150.00	450.00
25601	EACH	GROUND ANCHOR , 1 3/8" Diameter All-Thread-Bar Ground Anchor			
	Virgin Islands Paving, Inc.		23	10,000.00	230,000.00
	ENGINEER'S ESTIMATE			11,000.00	253,000.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
25602	EACH	PERFORMANCE TEST			
	Virgin Islands Paving, Inc.		4	2,500.00	10,000.00
	ENGINEER'S ESTIMATE			3,000.00	12,000.00
25902K	EACH	ROCKBOLT, CEMENT GROUTED, 20 FEET LONG			
	Virgin Islands Paving, Inc.		65	1,640.00	106,600.00
	ENGINEER'S ESTIMATE			800.00	52,000.00
30101Z	TON	AGGREGATE BASE, GRADING C OR D			
	Virgin Islands Paving, Inc.		3,250	50.00	162,500.00
	ENGINEER'S ESTIMATE			47.00	152,750.00
40101BC	TON	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING C			
	Virgin Islands Paving, Inc.		202	150.00	30,300.00
	ENGINEER'S ESTIMATE			200.00	40,400.00
40101BED	TON	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING E, TYPE 4 PAVEMENT SMOOTHNESS			
	Virgin Islands Paving, Inc.		305	150.00	45,750.00
	ENGINEER'S ESTIMATE			220.00	67,100.00
41202	GAL	TACK COAT			
	Virgin Islands Paving, Inc.		50	8.00	400.00
	ENGINEER'S ESTIMATE			2.50	125.00
41301	SQYD	ASPHALT PAVEMENT MILLING			
	Virgin Islands Paving, Inc.		220	20.00	4,400.00
	ENGINEER'S ESTIMATE			2.90	638.00
55214A	EACH	STRUCTURAL CONCRETE, CLASS A (AE) FOR 8 FOOT X 8 FOOT X 1 FOOT-9 INCH ANCHOR BLOCK			
	Virgin Islands Paving, Inc.		23	7,000.00	161,000.00
	ENGINEER'S ESTIMATE			6,000.00	138,000.00
56601N	SQYD	SHOTCRETE, 6-INCH DEPTH			
	Virgin Islands Paving, Inc.		180	350.00	63,000.00
	ENGINEER'S ESTIMATE			400.00	72,000.00
60103	LPSM	CONCRETE (WEIR)			
	Virgin Islands Paving, Inc.		ALL	16,500.00	16,500.00
	ENGINEER'S ESTIMATE			15,000.00	15,000.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
60104	EACH	CONCRETE (STILLING BASIN,24-INCH PIPE)			
	Virgin Islands Paving, Inc.		1	6,500.00	6,500.00
	ENGINEER'S ESTIMATE			10,000.00	10,000.00
60104	EACH	CONCRETE (STILLING BASIN,42-INCH PIPE)			
	Virgin Islands Paving, Inc.		1	13,000.00	13,000.00
	ENGINEER'S ESTIMATE			12,000.00	12,000.00
60104	EACH	CONCRETE (STILLING BASIN,72-INCH PIPE)			
	Virgin Islands Paving, Inc.		1	21,000.00	21,000.00
	ENGINEER'S ESTIMATE			15,000.00	15,000.00
60104	EACH	CONCRETE (STILLING BASIN,5x3 BOX CULVERT)			
	Virgin Islands Paving, Inc.		1	20,000.00	20,000.00
	ENGINEER'S ESTIMATE			18,000.00	18,000.00
60201K	LNFT	18-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		120	120.00	14,400.00
	ENGINEER'S ESTIMATE			75.00	9,000.00
60201M	LNFT	24-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		550	160.00	88,000.00
	ENGINEER'S ESTIMATE			115.00	63,250.00
60201Q	LNFT	42-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		166	200.00	33,200.00
	ENGINEER'S ESTIMATE			150.00	24,900.00
60201V	LNFT	72-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		180	400.00	72,000.00
	ENGINEER'S ESTIMATE			350.00	63,000.00
60206K	EACH	END SECTION FOR 18-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		4	650.00	2,600.00
	ENGINEER'S ESTIMATE			500.00	2,000.00
60206M	EACH	END SECTION FOR 24-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		2	1,000.00	2,000.00
	ENGINEER'S ESTIMATE			625.00	1,250.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
60206Q	EACH	END SECTION FOR 42-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		1	3,500.00	3,500.00
	ENGINEER'S ESTIMATE			700.00	700.00
60206V	EACH	END SECTION FOR 72-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		1	7,000.00	7,000.00
	ENGINEER'S ESTIMATE			1,000.00	1,000.00
60211EC	LNFT	5-FOOT SPAN, 3-FOOT RISE REINFORCED CONCRETE BOX CULVERT, SINGLE BARREL			
	Virgin Islands Paving, Inc.		110	500.00	55,000.00
	ENGINEER'S ESTIMATE			400.00	44,000.00
60212HH	LNFT	8-FOOT SPAN, 8-FOOT RISE REINFORCED CONCRETE BOX CULVERT, DOUBLE BARREL			
	Virgin Islands Paving, Inc.		230	1,156.00	265,880.00
	ENGINEER'S ESTIMATE			1,000.00	230,000.00
60214CABC	EACH	BOX CULVERT WINGWALLS, 3-FOOT HEIGHT, SINGLE BARREL, 15 DEGREE SKEW, 2:1 SIDE SLOPES			
	Virgin Islands Paving, Inc.		1	3,500.00	3,500.00
	ENGINEER'S ESTIMATE			4,550.00	4,550.00
60214HBDC	EACH	BOX CULVERT WINGWALLS, 8-FOOT HEIGHT, DOUBLE BARREL, 45 DEGREE SKEW, 2:1 SIDE SLOPES			
	Virgin Islands Paving, Inc.		2	15,000.00	30,000.00
	ENGINEER'S ESTIMATE			15,000.00	30,000.00
60401	EACH	MANHOLE			
	Virgin Islands Paving, Inc.		4	5,000.00	20,000.00
	ENGINEER'S ESTIMATE			2,600.00	10,400.00
60403FA	EACH	INLET, TYPE 6A			
	Virgin Islands Paving, Inc.		2	7,000.00	14,000.00
	ENGINEER'S ESTIMATE			3,800.00	7,600.00
60403GA	EACH	INLET, TYPE 7A			
	Virgin Islands Paving, Inc.		4	7,000.00	28,000.00
	ENGINEER'S ESTIMATE			2,700.00	10,800.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
60426	EACH	OIL/GRIT SEPARATOR (3k Baysaver)			
	Virgin Islands Paving, Inc.		1	30,000.00	30,000.00
	ENGINEER'S ESTIMATE			21,125.00	21,125.00
60801D	SQYD	PAVED WATERWAY, TYPE 4			
	Virgin Islands Paving, Inc.		450	110.00	49,500.00
	ENGINEER'S ESTIMATE			98.50	44,325.00
60902V	LNFT	PORTLAND CEMENT CONCRETE CURB AND GUTTER, 13-INCH DEPTH			
	Virgin Islands Paving, Inc.		120	53.00	6,360.00
	ENGINEER'S ESTIMATE			48.00	5,760.00
61102QD	LNFT	12-INCH WATERLINE, POLYVINYL CHLORIDE (PVC) C-900			
	Virgin Islands Paving, Inc.		1,800	120.00	216,000.00
	ENGINEER'S ESTIMATE			75.00	135,000.00
61103TD	LNFT	18-INCH ENCASEMENT PIPE, POLYVINYL CHLORIDE (PVC) C-900			
	Virgin Islands Paving, Inc.		420	140.00	58,800.00
	ENGINEER'S ESTIMATE			125.00	52,500.00
61104B	EACH	VALVE, AIR RELEASE			
	Virgin Islands Paving, Inc.		2	2,000.00	4,000.00
	ENGINEER'S ESTIMATE			4,300.00	8,600.00
61104DQ	EACH	VALVE, GATE, 12-INCH			
	Virgin Islands Paving, Inc.		4	3,500.00	14,000.00
	ENGINEER'S ESTIMATE			2,200.00	8,800.00
61106	EACH	FIRE HYDRANT			
	Virgin Islands Paving, Inc.		2	5,000.00	10,000.00
	ENGINEER'S ESTIMATE			4,500.00	9,000.00
61202ND	LNFT	8-INCH SEWER LINE, PLASTIC			
	Virgin Islands Paving, Inc.		220	45.00	9,900.00
	ENGINEER'S ESTIMATE			60.00	13,200.00
61203QA	LNFT	12-INCH ENCASEMENT PIPE, CAST IRON (CONDUIT)			
	Virgin Islands Paving, Inc.		120	100.00	12,000.00
	ENGINEER'S ESTIMATE			200.00	24,000.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
61501B	SQYD	PORTLAND CEMENT CONCRETE SIDEWALK			
	Virgin Islands Paving, Inc.		70	80.00	5,600.00
	ENGINEER'S ESTIMATE			75.00	5,250.00
61901CG	LNFT	FENCE, CHAIN LINK TYPE, 72-INCH HEIGHT			
	Virgin Islands Paving, Inc.		600	30.00	18,000.00
	ENGINEER'S ESTIMATE			45.00	27,000.00
61901CL	LNFT	FENCE, CHAIN LINK TYPE, 96-INCH HEIGHT			
	Virgin Islands Paving, Inc.		1,750	45.00	78,750.00
	ENGINEER'S ESTIMATE			30.00	52,500.00
61902CL	EACH	GATE, CHAIN LINK TYPE, 22-FOOT WIDTH			
	Virgin Islands Paving, Inc.		1	3,000.00	3,000.00
	ENGINEER'S ESTIMATE			3,900.00	3,900.00
61910	SQYD	FENCE, ROCK FALL NETTING			
	Virgin Islands Paving, Inc.		1,200	70.00	84,000.00
	ENGINEER'S ESTIMATE			99.00	118,800.00
61910	SQYD	FENCE, ROCK FALL NETTING (CONTINGENCY)			
	Virgin Islands Paving, Inc.		200	70.00	14,000.00
	ENGINEER'S ESTIMATE			99.00	19,800.00
62101	EACH	MONUMENT			
	Virgin Islands Paving, Inc.		86	400.00	34,400.00
	ENGINEER'S ESTIMATE			95.00	8,170.00
62404F	SQYD	PLACING CONSERVED TOPSOIL, 2-INCH DEPTH			
	Virgin Islands Paving, Inc.		58,750	3.00	176,250.00
	ENGINEER'S ESTIMATE			1.15	67,562.50
62501B	ACRE	SEEDING, HYDRAULIC METHOD			
	Virgin Islands Paving, Inc.		12.2	7,000.00	85,400.00
	ENGINEER'S ESTIMATE			2,050.00	25,010.00
62504B	ACRE	MULCHING, HYDRAULIC METHOD			
	Virgin Islands Paving, Inc.		12.2	7,000.00	85,400.00
	ENGINEER'S ESTIMATE			16,200.00	197,640.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
62508	MGAL	WATER			
	Virgin Islands Paving, Inc.		56	2,019.00	113,064.00
	ENGINEER'S ESTIMATE			8.50	476.00
62801B	ACRE	ROW SPRIGGING (vetiver planting)			
	Virgin Islands Paving, Inc.		3.8	10,000.00	38,000.00
	ENGINEER'S ESTIMATE			1,000.00	3,800.00
62901B	SQYD	EROSION CONTROL MAT TYPE 2			
	Virgin Islands Paving, Inc.		1,600	8.00	12,800.00
	ENGINEER'S ESTIMATE			11.25	18,000.00
62901D	SQYD	EROSION CONTROL MAT TYPE 4			
	Virgin Islands Paving, Inc.		850	10.00	8,500.00
	ENGINEER'S ESTIMATE			6.50	5,525.00
62901E	SQYD	EROSION CONTROL MAT TYPE 5			
	Virgin Islands Paving, Inc.		1,050	16.00	16,800.00
	ENGINEER'S ESTIMATE			12.00	12,600.00
63301	EACH	SIGN INSTALLATION			
	Virgin Islands Paving, Inc.		1	1,000.00	1,000.00
	ENGINEER'S ESTIMATE			1,150.00	1,150.00
63302	SQFT	SIGN INSTALLATION			
	Virgin Islands Paving, Inc.		15	250.00	3,750.00
	ENGINEER'S ESTIMATE			35.00	525.00
63401HA	LNFT	PAVEMENT MARKINGS, TYPE H, SOLID			
	Virgin Islands Paving, Inc.		5,200	2.83	14,716.00
	ENGINEER'S ESTIMATE			0.95	4,940.00
63402H	SQFT	PAVEMENT MARKINGS, TYPE H			
	Virgin Islands Paving, Inc.		180	12.65	2,277.00
	ENGINEER'S ESTIMATE			5.50	990.00
63501	LPSM	TEMPORARY TRAFFIC CONTROL			
	Virgin Islands Paving, Inc.		ALL	30,000.00	30,000.00
	ENGINEER'S ESTIMATE			15,000.00	15,000.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
63701	EACH	FIELD OFFICE			
		Virgin Islands Paving, Inc.	1	45,000.00	45,000.00
		ENGINEER'S ESTIMATE		26,000.00	26,000.00

TABULATION OF BIDS

Date: 12/07/06

Schedule: A

Project No.: VI NH-66(008)

Project Name: NH-66(008) CHRISTIANSTED BY PASS CONTRACT 1

BID TOTAL CHECK PASS

Bidder	Bidder's Bid Amount	Computed Bid Amount	Error
Virgin Islands Paving, Inc.	6,726,648.50	6,726,648.50	

The apparent low bidder is 56 % above the engineer's estimate.

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 Ridgeway Circle Sterling, Virginia 20166-6511				DATE VOUCHER PREPARED		SCHEDULE NO.	
				CONTRACT NUMBER AND DATE DTFH71-07C-00015 03/14/2007			PAID BY
				REQUISITION NUMBER AND DATE			
PAYEE'S NAME AND ADDRESS Virgin Islands Paving, Inc. 13-GA Estate Bethlehem Kingshill, VI 00851-4720				DATE INVOICE RECEIVED			
				DISCOUNT TERMS			
				PAYEE'S ACCOUNT NUMBER			
				GOVERNMENT B/L 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		AMOUNT ()	
				COST	PER		
		Final Estimate No. 28 - This is final settlement for the construction of Project VI NH 66(008), Christiansted Bypass Phase 1A - Contract 1, and final closeout is specifically conditioned upon the execution of the Contractor's Release attached hereto and incorporated herein. By: <u><i>Donald W. Miller</i></u> Title: <u><i>PRESIDENT</i></u> Date: <u><i>9-3-10</i></u>					
(Use continuation sheet(s) if necessary) (Payee must NOT use the space below) TOTAL						\$35,806.47	
PAYMENT: ☐ PROVISIONAL ☐ COMPLETE ☐ PARTIAL ☒ FINAL ☐ PROGRESS ☐ ADVANCE		APPROVED FOR BY ² <u><i>D. W. Miller</i></u> <u><i>10/18/10</i></u> Donald W. Miller TITLE Director, Project Delivery	EXCHANGE RATE = \$ 35,806.47 = \$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. <u><i>10/13/10</i></u> (Date) <u><i>Donald W. Miller</i></u> (Authorized Certifying Officer) <u><i>[Signature]</i></u> Financial Manager (Title)							
ACCOUNTING CLASSIFICATION PROJ: 1515780066008 ORG: 1578000000 TASK: 540.00.TT10.78							
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 received 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 amount to be paid. Failure to furnish this information will hinder discharge
 of the payment obligation.

DEPARTMENT OF TRANSPORTATION
CONTRACTOR'S RELEASE

CONTRACT NO.
DTFH71-07-C-00015

CONTRACTOR (Name and address)

Virgin Islands Paving, Inc.
13-GA Estate Bethlehem
Kingshill, VI 00851-4720

SUM OF

Thirty Five Thousand, Eight Hundred and Six Dollars, and
Forty Seven Cents

DOLLARS (\$) 35,806.47

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:

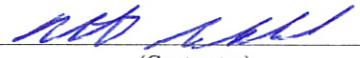
1. Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible of exact statement by the Contractor, as follows:
2. Claims, together with reasonable expenses incidental thereto, based upon the liabilities of the Contractor to third parties arising out of the performance 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 27 day of September 2020

WITNESSES




(Contractor)

BY _____

TITLE President

NOTE: In the case of a corporation, witnesses are not required, but the certification below must be completed.

CERTIFICATE

I, William Scherby, certify that I am the _____ secretary of the corporation named as Contractor in the foregoing release; that Robert Scherby 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)





OFFICE OF
THE COMMISSIONER

GOVERNMENT OF
THE VIRGIN ISLANDS OF THE UNITED STATES

DEPARTMENT OF PUBLIC WORKS

6002 Estate Anna's Hope
Christiansted, St. Croix, V.I. 00820-4428

Tel: (340) 773-1290
Fax: (340) 773-0670

September 28, 2010

Ms. Melisa L. Ridenour
Division Engineer
Eastern Federal Lands Highways Division
21400 Ridgetop Circle
Sterling, Virginia 20166

**RE: Final Acceptance, Christiansted By-Pass
Project Number VI NH-66(008) Phase 1A Contract 1**

Dear Ms. Ridenour:

The Department of Public Works is pleased to advise you that as a result of our joint inspection of the work completed by Virgin Islands Paving Inc., the Department wishes to report that the work has been satisfactorily completed in conformity with plans and specifications. Accordingly, final acceptance is effective as of our last inspection on **May 20, 2010**. As of this date, the contractor is relieved of all maintenance obligations.

Sincerely,

Darryl A. Smalls P.E
Commissioner

DAS/WB/jpd WB

cc:

Jameel Siddiqui, Construction Operations Engineer, EFLHD
Bradley Blevins, Project Engineer Eastern Federal Lands Highways Division
Roberto Cintron, Assistant Commissioner
Wystan Benjamin, Federal-aid Highway Program Manager
John Paul David, Construction Program Manager



U.S. Department
of Transportation
Federal Highway
Administration

Eastern Federal Lands
Highway Division

21400 Ridgeway Circle
Sterling, VA 20166-6511

SEP 01 2010

In Reply Refer To: HFCO-15

FEDERAL EXPRESS

Mr. Robert J. Schierloh
President
Virgin Islands Paving, Inc.
13-GA Estate Bethlehem
Kingshill, VI 00851-4720

Subject: Project No. VI NH-66(008)
Christiansted Bypass ~ Phase 1A
Contract Closeout
Contract No. DTFH71-07-C-00015

Dear Mr. Schierloh:

We are pleased to advise you that the work performed on the above subject contract has been satisfactorily completed in substantial conformity with the plans and specifications. Final Acceptance was effective on May 20, 2010, and as of that date you were relieved of further maintenance obligations. Enclosed please find the following documents:

- The final estimate (Estimate No. 28)
- Two copies of Contract Modification (CM) No. 0010
- Two copies of Form 4220.4, Contractor's Release
- Two 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. 0010 and both copies of Forms 4220.4 and 1034, which are based on the final estimate. One copy of CM No. 0010, with all the appropriate signatures, will be returned to you for your records. If you have any questions, please contact Mr. James Mathews, Construction Operations Engineer, at 865-286-6102.

Sincerely yours,

/s/ Thomas J. Scott, Jr.

Thomas J. Scott, Jr., P.E.
Construction Engineer and
Administrative Contracting Officer

Enclosures





CONSTRUCTION PROJECT MATERIAL CERTIFICATION

State Virgin Islands

Project No. VI NH-66(008) Contract 1

Project name St. Croix, Christiansted Bypass

Contract No. DTFH71-07-C-00015

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 J. Bradley Blevins

Digitally signed by J. Bradley Blevins
DN: cn=J. Bradley Blevins, o=FHWA, ou=DTFH71-07-C-00015, email=jbradley@hwy.fhwa.dhs.gov, c=US
Date: 2010.09.30 12:31:41 -0400

Date 09/30/2010

Construction Operations Engineer Jim M. Mathews

Digitally signed by Jim M. Mathews
DN: cn=Jim M. Mathews, o=FHWA, ou=DTFH71-07-C-00015, email=jmathews@hwy.fhwa.dhs.gov, c=US
Date: 2010.09.30 12:31:41 -0400

Date 09/30/2010

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 Michael Dallaire

Digitally signed by Michael Dallaire
DN: cn=Michael Dallaire, o=FHWA, ou=DTFH71-07-C-00015, email=mdallaire@hwy.fhwa.dhs.gov, c=US
Date: 2010.09.30 12:31:41 -0400

Date 9/30/2010

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.

Digitally signed by Thomas J. Scott Jr.
DN: cn=Thomas J. Scott Jr., o=FHWA, ou=DTFH71-07-C-00015, email=tjscott@hwy.fhwa.dhs.gov, c=US
Date: 2010.09.30 12:31:41 -0400

Date _____

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

batch #
cntrl # 10169

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1

New construction: roadway grading, drainage, paving, erosion control and other work.

TO: VIRGIN ISLANDS PAVING, INC.
P. O. BOX 4720
KINGS HILL, VI 00851-4720

CONSTRUCTION SUMMARY

ESTIMATE # 28, final

TOTAL AMOUNT EARNED TO DATE \$7,056,341.05
*ADJUSTMENTS for final quantities check \$0.00
TOTAL PAYMENTS APPROVED TO DATE \$7,056,341.05
TOTAL PAYMENTS PREVIOUSLY PAID \$7,020,534.58
AMOUNT TO BE PAID THIS ESTIMATE \$35,806.47

CONTRACT NUMBER: DTFH171-07-C-00015
AWARD DATE: March 14, 2007
STATE U.S. Virgin Islands
COUNTIES St. Croix
FOREST OR PARK n/a
LENGTH 1.95 miles

This estimate submitted 09/04/09 by
Bradley Blevins, Project Engineer

*ADJUSTMENTS
10% Est. held due to unsatisfactory progress
10% Est. 04 held = \$4,744.92 10% Est. 11 held = \$43,272.75
10% Est. 05 held = \$2,973.80 10% Est. 12 held = \$53,666.61
10% Est. 06 held = \$19,206.52 10% Est. 13 held = \$17,645.78
10% Est. 07 held = \$25,227.82 10% Est. 14 held = \$14,398.38
10% Est. 08 held = \$26,888.39 10% Est. 15 held = \$37,085.58
10% Est. 09 held = \$44,583.69 10% Est. 16 held = \$8,988.47
10% Est. 10 held = \$29,411.80 10% Est. 17 held = \$15,464.55
Est. 18 = Released \$171,779.53 of \$343,559.06 held Est. 4-17.

*ADJUSTMENTS
5% held due to unsatisfactory progress
Est. 18 held = \$18,186.04 Est. 23 held = \$3,894.40
Est. 19 held = \$9,876.51 Est. 24 held = \$1,450.88
Est. 20 held = \$19,254.51 Est. 25 held = \$340.40
Est. 21 held = \$16,369.43 Est. 26 held LDs \$16,200.00
Est. 22 held = \$28,032.11 Est. 27 released = \$30,240.00
Est. 25 = Released \$268,843.41 of previously held funds.

date: 10/13/10
for James Matthews, Construction Operations Engineer
Concept estimate

EXPEND

LIQUIDATE

ACCOUNT NUMBER

Proj 15A5780066008; Org 1578000000; Task R40.00.6320.78
Proj 1515780066008; Org 1578000000; Task 540.00.5BF0.78
Proj 1515780066008; Org 1578000000; Task 540.00.34H0.78
Proj 1515780066008; Org 1578000000; Task 540.00.TT10.78
TOTAL

\$0.00
\$0.00
\$0.00
\$35,806.47
\$35,806.47

date: 10/13/10
Thomas J. Scott, Jr., Construction Engineer
Approve for payment
date: 10/13/10
Terry Daniel, Financial Manager
Certify funds available

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES			
		QUANTITY	CM	AMENDED UNIT	UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY	AMOUNT
15101	MOBILIZATION	100.000		100.000 LPSM	\$399,300.00	\$399,300.00	0.000	100.000	\$399,300.00	100.000	\$399,300.00
15201	CONSTRUCTION SURVEY AND STAKING	100.000		100.000 LPSM	\$156,000.00	\$156,000.00	0.000	100.000	\$156,000.00	100.000	\$156,000.00
15401	CONTRACTOR TESTING	100.000		100.000 LPSM	\$78,000.00	\$78,000.00	0.000	100.000	\$78,000.00	100.000	\$78,000.00
15703	SILT FENCE (Wire-backed); quantity decrease 5200 per CM #0005,01/21/09; quantity increase 361 per CM #0008, 09/29/09	10400.000	-4839.000	5561.000 LNFT	\$9.88	\$54,942.68	0.000	5561.000	\$54,942.68	5561.000	\$54,942.68
15705	SLOPE DRAINS; quantity decrease 890 per CM #0005, 01/21/09	1140.000	-890.000	250.000 LNFT	\$15.60	\$3,900.00	0.000	250.000	\$3,900.00	250.000	\$3,900.00
15716	INLET PROTECTION; quantity decrease 1 per CM #0009, 01/14/10	4.000	-1.000	3.000 EACH	\$5,096.00	\$15,288.00	0.000	3.000	\$15,288.00	3.000	\$15,288.00
15718	STABILIZED CONSTRUCTION ENTRANCE; quantity decrease 1 per CM #0005, 01/21/09	3.000	-1.000	2.000 EACH	\$5,824.00	\$11,648.00	0.000	2.000	\$11,648.00	2.000	\$11,648.00
15722	TEMPORARY DIVERSION BERM; quantity per CM #0004, 12/04/08	3350.000	-2325.000	1025.000 LNFT	\$22.88	\$23,452.00	0.000	1025.000	\$23,452.00	1025.000	\$23,452.00
15724	TEMPORARY DIVERSION CHANNEL; quantity per CM #0004, 12/04/08	1600.000	-1229.000	371.000 LNFT	\$31.20	\$11,575.20	0.000	371.000	\$11,575.20	371.000	\$11,575.20
15801	WATERING FOR DUST CONTROL; quantity per CM #0004, 12/04/08; quantity decrease 10 per CM #0009, 01/14/10	210.000	90.000	300.000 MGAL	\$166.40	\$49,920.00	0.000	300.000	\$49,920.00	300.000	\$49,920.00
20101	CLEARING AND GRUBBING; quantity increase 2934 per CM #0008, 09/29/09	12.000	2.934	14.934 ACRE	\$3,744.00	\$55,912.90	0.000	14.934	\$55,912.90	14.934	\$55,912.90
20301AA	REMOVAL OF MANHOLE (sanitary sewer)	1.000		1.000 EACH	\$3,120.00	\$3,120.00	0.000	1.000	\$3,120.00	1.000	\$3,120.00
20301AB	REMOVAL OF STRUCTURE	3.000		3.000 EACH	\$9,880.00	\$29,640.00	0.000	3.000	\$29,640.00	3.000	\$29,640.00
20302W	REMOVAL OF GUARDRAIL; quantity per CM #0004, 12/04/08	180.000	-180.000	0.000 LNFT	\$0.00	\$0.00	0.000	0.000	\$0.00	0.000	\$0.00
20304AL	REMOVAL OF MISCELLANEOUS ITEMS (sheds, cistern, conc. Foundation)	100.000		100.000 LPSM	\$31,200.00	\$31,200.00	0.000	100.000	\$31,200.00	100.000	\$31,200.00
20401	ROADWAY EXCAVATION; quantity decrease 18472 per CM #0005, 01/21/09; quantity decrease 19806.9 per CM #0009, 01/14/10	98446.000	-38278.900	60167.100 CU YD	\$14.67	\$882,651.36	-19669.000	79836.100	\$882,651.36	60167.100	\$882,651.36
20409	CM #0009, 01/14/10; ROADWAY EMBANKMENT		19669.000	19669.000 CU YD	\$14.67	\$288,544.23	19669.000	0.000	\$288,544.23	19669.000	\$288,544.23
20421	ROCK EXCAVATION; quantity increase 18474 per CM #0005, 01/21/09; increase quantity 4869.9 per CM #0009, 01/14/10	21223.000	23343.900	44566.900 CU YD	\$45.76	\$2,039,381.34	0.000	44566.900	\$2,039,381.34	44566.900	\$2,039,381.34
25101C	PLACED RIPRAP, CLASS 3; quantity decrease 261 per CM #0005, 01/21/09	1300.000	-261.000	1039.000 CU YD	\$119.60	\$124,264.40	0.000	1039.000	\$124,264.40	1039.000	\$124,264.40

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES	
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	QUANTITY	AMOUNT
25101C	PLACED RIPRAP, CLASS 3 (temp outlet protect); quantity per CM #0008, 09/29/09	3,000	-3,000	0.000 CUVD	\$130.00	\$0.00	0.000	0.000	\$0.00
25501	CM #0003, 04/28/08; MECHANICALLY STABILIZED EARTH WALL (MSE WALL); quantity increase 1458.5 per CM #0009, 01/14/10	7058,500		7058,500 SQFT	\$22.28	\$157,263.38	7058,500	7058,500	\$157,263.38
25601	GROUND ANCHOR, 1 3/8" Diameter All-Thread-Bar Ground Anchor; quantity per CM #0005, 01/21/09	23,000	-3,000	20,000 EACH	\$10,400.00	\$208,000.00	20,000	20,000	\$208,000.00
25602	PERFORMANCE TEST	4,000		4,000 EACH	\$2,600.00	\$10,400.00	4,000	4,000	\$10,400.00
25902K	ROCKBOLT, CEMENT GROUTED, 20 FEET LONG; quantity per CM #0009, 01/14/10	65,000	-65,000	0.000 EACH	\$1,705.60	\$0.00	0.000	0.000	\$0.00
30101Z	AGGREGATE BASE, GRADING COR D; quantity decrease 1188.65 per CM #0008, 09/29/09; quantity decrease 192.95 per CM #0010, 10/04/10	3250,000	-1381,600	1868,400 TON	\$50.96	\$95,213.66	1868,400	1868,400	\$95,213.66
40101BC	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING C; quantity increase 129.07 per CM #0009, 01/14/10	202,000	129,070	331,070 TON	\$156.00	\$51,646.92	331,070	331,070	\$51,646.92
40101BED	HOT ASPHALT CONCRETE PAVEMENT, CLASS B, GRADING E, TYPE 4 PAVEMENT SMOOTHNESS; quantity decrease 143.4 per CM #0009, 01/14/10	305,000	-143,400	161,600 TON	\$156.00	\$25,209.60	161,600	161,600	\$25,209.60
41202	TACK COAT; quantity increase 319 per CM #0009, 01/14/10	50,000	319,000	369,000 GAL	\$8.32	\$3,070.08	369,000	369,000	\$3,070.08
41301	ASPHALT PAVEMENT MILLING; quantity decrease 20 per CM #0007, 06/18/09	220,000	-20,000	200,000 SQYD	\$20.80	\$4,160.00	200,000	200,000	\$4,160.00
55214A	STRUCTURAL CONCRETE, CLASS A (AE) FOR 8 FOOT X 8 FOOT X 1 FOOT-9 INCH ANCHOR BLOCK; quantity per CM #0005, 01/21/09	23,000	-3,000	20,000 EACH	\$7,072.00	\$141,440.00	20,000	20,000	\$141,440.00
56601N	SHOTCRETE, 6-INCH DEPTH; quantity decrease 10 per CM #0009, 01/14/10	180,000	-10,000	170,000 SQYD	\$364.00	\$61,880.00	170,000	170,000	\$61,880.00
60103	CONCRETE (WEIR)	100,000		100,000 LPSM	\$17,160.00	\$17,160.00	100,000	100,000	\$17,160.00
60104	CONCRETE (STILLING BASIN, 24-INCH PIPE)	1,000		1,000 EACH	\$6,760.00	\$6,760.00	1,000	1,000	\$6,760.00
60104	CONCRETE (STILLING BASIN, 42-INCH PIPE)	1,000		1,000 EACH	\$13,520.00	\$13,520.00	1,000	1,000	\$13,520.00
60104	CONCRETE (STILLING BASIN, 72-INCH PIPE)	1,000		1,000 EACH	\$21,840.00	\$21,840.00	1,000	1,000	\$21,840.00

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES	
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY
60104	CONCRETE (STILLING BASIN, 5x3 BOX CULVERT)	1,000		1,000 EACH	\$20,800.00	0.000	1,000	\$20,800.00	1,000
60201K	18-INCH PIPE CULVERT; quantity decrease 56 per CM #0009, 01/14/10	120,000	-56,000	64,000 LNFT	\$7,321.60	0.000	64,000	\$7,321.60	64,000
60201M	24-INCH PIPE CULVERT; quantity decrease 8 per CM #0009, 01/14/10	550,000	-8,000	542,000 LNFT	\$90,188.80	0.000	542,000	\$90,188.80	542,000
60201Q	42-INCH PIPE CULVERT; quantity per CM #0004, 12/04/08	166,000	4,670	170,670 LNFT	\$35,499.36	0.000	170,670	\$35,499.36	170,670
60201V	72-INCH PIPE CULVERT; quantity per CM #0004, 12/04/08	180,000	108,000	288,000 LNFT	\$119,808.00	0.000	288,000	\$119,808.00	288,000
60206K	END SECTION FOR 18-INCH PIPE CULVERT; quantity decrease 2 per CM #0009, 01/14/10	4,000	-2,000	2,000 EACH	\$1,352.00	0.000	2,000	\$1,352.00	2,000
60206M	END SECTION FOR 24-INCH PIPE CULVERT	2,000		2,000 EACH	\$2,080.00	0.000	2,000	\$2,080.00	2,000
60206Q	END SECTION FOR 42-INCH PIPE CULVERT	1,000		1,000 EACH	\$2,600.00	0.000	1,000	\$2,600.00	1,000
60206V	END SECTION FOR 72-INCH PIPE CULVERT; quantity per CM #0004, 12/04/08	1,000	-1,000	0,000 EACH	\$0.00	0.000	0,000	\$0.00	0,000
60211EC	5-FOOT SPAN, 3-FOOT RISE REINFORCED CONCRETE BOX CULVERT, SINGLE BARREL; quantity per CM #0005, 01/21/09	110,000	-18,600	91,400 LNFT	\$47,528.00	0.000	91,400	\$47,528.00	91,400
60212HI	8-FOOT SPAN, 8-FOOT RISE REINFORCED CONCRETE BOX CULVERT, DOUBLE BARREL; decrease quantity 30 per CM #0003, 04/28/08	230,000	-30,000	200,000 LNFT	\$240,448.00	0.000	200,000	\$240,448.00	200,000
60214CABC	BOX CULVERT WINGWALLS, 3-FOOT HEIGHT, SINGLE BARREL, 15 DEGREE SKEW, 2:1 SIDE SLOPES; quantity per CM #0004, 12/04/08	1,000	-1,000	0,000 EACH	\$0.00	0.000	0,000	\$0.00	0,000
60214IBDC	BOX CULVERT WINGWALLS, 8-FOOT HEIGHT, DOUBLE BARREL, 45 DEGREE SKEW, 2:1 SIDE SLOPES	2,000		2,000 EACH	\$31,200.00	0.000	2,000	\$31,200.00	2,000
60401	MANHOLE; quantity per CM #0004, 12/04/08	4,000	1,000	5,000 EACH	\$24,960.00	0.000	5,000	\$24,960.00	5,000
60403FA	INLET, TYPE 6A	2,000		2,000 EACH	\$12,480.00	0.000	2,000	\$12,480.00	2,000
60403GA	INLET, TYPE 7A	4,000		4,000 EACH	\$24,960.00	0.000	4,000	\$24,960.00	4,000
60426	OIL/GRIT SEPARATOR (3k Boysaver)	1,000		1,000 EACH	\$31,200.00	0.000	1,000	\$31,200.00	1,000
60801D	PAVED WATERWAY, TYPE 4; quantity increase 21 per CM #0007, 06/18/09; quantity increase 1.67 per CM #0010, 10/04/10	450,000	22,670	472,670 SQYD	\$54,073.45	0.000	472,670	\$54,073.45	472,670
60902V	PORTLAND CEMENT CONCRETE CURB AND GUTTER, 13-INCH DEPTH	120,000		120,000 LNFT	\$6,614.40	0.000	120,000	\$6,614.40	120,000

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES			
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY	AMOUNT	
61102QD	12-INCH WATERLINE, POLYVINYL CHLORIDE (PVC) C-900; quantity increase 24 per CM #0007, 06/18/09	1800.000	24.000	1824.000 LNFT	\$124.80	\$227,635.20	0.000	1824.000	\$227,635.20	1824.000	\$227,635.20
61103TD	18-INCH ENCASEMENT PIPE, POLYVINYL CHLORIDE (PVC) C-900; quantity decrease 78 per CM #0009, 01/14/10	420.000	-78.000	342.000 LNFT	\$145.60	\$49,795.20	0.000	342.000	\$49,795.20	342.000	\$49,795.20
61104B	VALVE, AIR RELEASE	2.000		2.000 EACH	\$2,080.00	\$4,160.00	0.000	2.000	\$4,160.00	2.000	\$4,160.00
61104DQ	VALVE, GATE, 12-INCH	4.000		4.000 EACH	\$3,640.00	\$14,560.00	0.000	4.000	\$14,560.00	4.000	\$14,560.00
61106	FIRE HYDRANT	2.000		2.000 EACH	\$4,992.00	\$9,984.00	0.000	2.000	\$9,984.00	2.000	\$9,984.00
61202ND	8-INCH SEWER LINE, PLASTIC; quantity per CM #0004, 12/04/08	220.000	-23.000	197.000 LNFT	\$46.80	\$9,219.60	0.000	197.000	\$9,219.60	197.000	\$9,219.60
61203QA	12-INCH ENCASEMENT PIPE, CAST IRON (CONDUIT); quantity per CM #0004, 12/04/08	120.000	7.000	127.000 LNFT	\$104.00	\$13,208.00	0.000	127.000	\$13,208.00	127.000	\$13,208.00
61501B	PORTLAND CEMENT CONCRETE SIDEWALK; quantity per CM #0007, 06/18/09	70.000	-70.000	0.000 SQYD	\$83.20	\$0.00	0.000	0.000	\$0.00	0.000	\$0.00
61901CG	FENCE, CHAIN LINK TYPE, 72-INCH HEIGHT	600.000		600.000 LNFT	\$31.20	\$18,720.00	0.000	600.000	\$18,720.00	600.000	\$18,720.00
61901CL	FENCE, CHAIN LINK TYPE, 96-INCH HEIGHT; quantity increase 92 per CM #0007, 06/18/09	1750.000	92.000	1842.000 LNFT	\$46.80	\$86,205.60	0.000	1842.000	\$86,205.60	1842.000	\$86,205.60
61902CL	GATE, CHAIN LINK TYPE, 22-FOOT WIDTH; quantity per CM #0004, 12/04/08	1.000	-1.000	0.000 EACH	\$3,120.00	\$0.00	0.000	0.000	\$0.00	0.000	\$0.00
61910	FENCE, ROCK FALL NETTING	1200.000		1200.000 SQYD	\$72.80	\$87,360.00	0.000	1200.000	\$87,360.00	1200.000	\$87,360.00
61910	FENCE, ROCK FALL NETTING (CONTINGENCY); quantity per CM #0007, 06/18/09	200.000	-200.000	0.000 SQYD	\$72.80	\$0.00	0.000	0.000	\$0.00	0.000	\$0.00
62101	MONUMENT; quantity increase 15 per CM #0008, 09/29/09	86.000	15.000	101.000 EACH	\$364.00	\$36,764.00	0.000	101.000	\$36,764.00	101.000	\$36,764.00
62404F	PLACING CONSERVED TOPSOIL, 2-INCH DEPTH; quantity decrease 42705 per CM #0009, 01/14/10	58750.000	-42705.000	16045.000 SQYD	\$2.60	\$41,717.00	0.000	16045.000	\$41,717.00	16045.000	\$41,717.00
62501B	SEEDING, HYDRAULIC METHOD; quantity decrease 9.8 per CM #0008, 09/29/09	12.200	-9.800	2.400 ACRE	\$7,280.00	\$17,472.00	0.000	2.400	\$17,472.00	2.400	\$17,472.00
62504B	MULCHING, HYDRAULIC METHOD; quantity decrease 10 per CM #0008, 09/29/09	12.200	-10.000	2.200 ACRE	\$7,280.00	\$16,016.00	0.000	2.200	\$16,016.00	2.200	\$16,016.00
62508	WATER; quantity increase 14 per CM #0008, 09/29/09	56.000	14.000	70.000 MGAL	\$364.00	\$25,480.00	0.000	70.000	\$25,480.00	70.000	\$25,480.00
62801B	ROW SPRIGGING (whether planting); quantity decrease 1.506 per CM #0009, 01/14/10	3.800	-1.506	2.294 ACRE	\$9,360.00	\$21,471.84	0.000	2.294	\$21,471.84	2.294	\$21,471.84

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES			
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY	AMOUNT	
62901B	EROSION CONTROL MAT TYPE 2; quantity decrease 1384 per CM #0007, 06/18/09	1600.000	-1384.000	216.000 SQYD	\$8.32	\$1,797.12	0.000	216.000	\$1,797.12	216.000	\$1,797.12
62901D	EROSION CONTROL MAT TYPE 4; quantity decrease 440.7 per CM #0009, 01/14/10	850.000	-440.700	409.300 SQYD	\$10.40	\$4,256.72	0.000	409.300	\$4,256.72	409.300	\$4,256.72
62901E	EROSION CONTROL MAT TYPE 5; quantity decrease 53.7 per CM #0009, 01/14/10	1050.000	-53.700	994.300 SQYD	\$16.64	\$16,545.15	0.000	994.300	\$16,545.15	994.300	\$16,545.15
63301	SIGN INSTALLATION; quantity increase 1 per CM #0009, 01/14/10	1.000	1.000	2.000 EACH	\$1,040.00	\$2,080.00	0.000	2.000	\$2,080.00	2.000	\$2,080.00
63302	SIGN INSTALLATION	15.000		15.000 SQFT	\$156.00	\$2,340.00	0.000	15.000	\$2,340.00	15.000	\$2,340.00
63401HA	PAVEMENT MARKINGS, TYPE H, SOLID; quantity per CM #0007, 06/18/09	5200.000	-5200.000	0.000 LNFT	\$2.91	\$0.00	0.000	0.000	\$0.00	0.000	\$0.00
63402LI	PAVEMENT MARKINGS, TYPE LI; quantity per CM #0007, 06/18/09	180.000	-180.000	0.000 SQFT	\$13.15	\$0.00	0.000	0.000	\$0.00	0.000	\$0.00
63501	TEMPORARY TRAFFIC CONTROL	100.000		100.000 LPSM	\$29,120.00	\$29,120.00	0.000	100.000	\$29,120.00	100.000	\$29,120.00
63701	FIELD OFFICE	1.000		1.000 EACH	\$39,520.00	\$39,520.00	0.400	0.600	\$39,520.00	1.000	\$39,520.00
66601	CM #0003, 04/28/08: CONTRACT MODIFICATION WORK, (COMPENSATE THE CONTRACTOR FOR THE PURCHASE OF RE-STEEL NOT USED DUE TO THE REDUCTION OF LENGTH BY 30 FEET OF THE DOUBLE 8-FOOT X 8-FOOT BOX CULVERT ITEM NO. 60212HH); quantity per CM #0009, 01/14/10		0.000	0.000 LPSM	\$3,140.74	\$3,140.74	0.000	0.000	\$0.00	0.000	\$0.00
66601	CM #0004, 12/04/08: CONTRACT MODIFICATION WORK, (ADDITIONAL SURVEY WORK)		100.000	100.000 LPSM	\$22,700.00	\$22,700.00	0.000	100.000	\$22,700.00	100.000	\$22,700.00
66601	CM #0004, 12/04/08: CONTRACT MODIFICATION WORK, (CLEARING OF HISTORIC SITE)		100.000	100.000 LPSM	\$10,466.40	\$10,466.40	0.000	100.000	\$10,466.40	100.000	\$10,466.40
66601	CM #0007, 06/18/09: CONTRACT MODIFICATION WORK, (CLEARING CEMETERY DEBRIS)		100.000	100.000 LPSM	\$22,460.00	\$22,460.00	0.000	100.000	\$22,460.00	100.000	\$22,460.00
66601	CM #0008, 09/29/09: CONTRACT MODIFICATION WORK, (FULL SETTLEMENT OF 72-INCH REINFORCED CUOCRETE PIPE CULVERT CLAIM)		100.000	100.000 LPSM	\$300,000.00	\$300,000.00	0.000	100.000	\$300,000.00	100.000	\$300,000.00
66603	CM #0004, 12/04/08: CONTRACT MODIFICATION WORK, (BOX CULVERT HEADWALL)		1.000	1.000 EACH	\$6,050.00	\$6,050.00	0.000	1.000	\$6,050.00	1.000	\$6,050.00

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES	
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY
66603	CM #0007, 06/18/09; CONTRACT MODIFICATION WORK, (COMPENSATE CONTRACTOR FOR ROCK BOLT (item 23901K) NOT USED)	32.000		32.000 EACH \$540.83	\$17,306.56	0.000	32.000	\$17,306.56	32.000
66607	CM #0003, 04/28/08; CONTRACT MODIFICATION WORK, (TURF REINFORCEMENT MAT (TRM) TYPE 5(B) GEOTEXTILE) (1250 sqyd); quantity increase 1,102.8 per CM #0009, 01/14/10	2352.800		2352.800 sqyd \$16.92	\$39,809.38	0.000	2352.800	\$39,809.38	2352.800
66607	CM #0003, 04/28/08; CONTRACT MODIFICATION WORK, (REINFORCED GEOGRID)(11200 sqyd); quantity increase 564 per CM #0009, 01/14/10	11764.000		11764.000 sqyd \$2.78	\$32,703.92	0.000	11764.000	\$32,703.92	11764.000
99901	MATERIAL STOCKPILED (not incorporated in the work) item 61102QD 12-inch waterline			0.000 LNFT \$20.6850	\$0.00	0.000	0.000	\$0.00	0.000

VI NH 66(008) - Christiansted Bypass Phase 1A - Contract #1 ESTIMATE # 28, final

CONSTRUCTION	BID	TO DATE	PROBABLE	through prev.est	EXPENDED	UDO
CONTRACT	\$6,392,699.90	\$7,056,341.05	\$7,056,341.05	\$0.00		
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	\$6,392,699.90	\$7,056,341.05	\$7,056,341.05			
FUNDS AUTHORIZED: Proj 1515780066008; Org 1578000000; Task 540.00.6320.78 @ award amount was (now zero)						
FUNDS AUTHORIZED: Proj 1515780066008; Org 1578000000; Task 540.00.34H0.78						
FUNDS AUTHORIZED: Proj 1515780066008; Org 1578000000; Task 540.00.56F0.78						
FUNDS AUTHORIZED: Proj 1515780066008; Org 1578000000; Task 540.00.TT10.78						
FUNDS AUTHORIZED: Proj 15A5780066008; Org 1578000000; Task R40.00.6320.78						
TOTAL	\$6,392,699.90	\$7,056,341.05	\$7,056,341.05			
BALANCE OR DEFICIT	\$0.00	\$0.00	\$0.00			
CONSTRUCTION ENGINEERING	AUTHORIZED	TO DATE	PROBABLE	PROBABLE CE/CN		
TOTAL-ALL WORK CODES	\$0.00	\$776,685.47	\$765,000.00	10.84%		
C E BREAKDOWN	FUNCTION C	FUNCTION I	FUNCTION M	FUNCTION P	TOTAL	
*TO DATE AUTHORIZED						
EXPENDED	\$662,647.90	\$103,153.86	\$3,050.38	\$7,833.33	\$776,685.47	
PROBABLE	\$644,500.00	\$95,500.00	\$25,000.00		\$765,000.00	
EXPENDED PER DELPHI REPORTS AS OF 08/23/10 & PP 16 - INCLUDING SISTER ACCT 15A5780066008 PE expended=					\$1,685,638.08	
*CE AUTH. PER DELPHI						
DELPHI CE ACCOUNT NUMBERS						
ACCOUNT NUMBER FOR PYRL, etc.:						

FISCAL DATA RECORD

VI NH-66(008)

CONTRACT DTFH71-07-C-00015
with VIRGIN ISLANDS PAVING, INC.

CURRENT PROBABLES \$7,056,341.05
% TIME COMPLETE 100.00%
%WORK COMPLETE 100.00%

Proj 1515780066008; Org 1578000000; Task 540.00.6320.78

Date	Explanation	Disbursed	Allotment	Obligated	Liquidated	Unliq. Bal.	Unoblig. Bal.
03/14/07	contract award amount, no incentives		\$6,392,699.90	\$6,392,699.90		\$6,392,699.90	\$0.00
07/25/07	Est 01 on R40.00.6320	\$135,599.36			\$135,599.36	\$6,257,100.54	\$0.00
	Proj 15A5780066008; Org 1578000000; Task R40.00.6320.78 - SPEND LAST					\$6,257,100.54	\$0.00
08/23/07	ADMN. CM #0001		(\$1,629,858.19)	\$4,762,841.71	\$6,392,699.90	\$4,627,242.35	\$0.00
	Proj 1515780066008; Org 1578000000; Task 540.00.5BF0.78 - SPEND SECOND					\$4,627,242.35	\$0.00
	ADMN. CM #0001		\$1,600,000.00	\$1,600,000.00		\$6,227,242.35	\$0.00
	Proj 1515780066008; Org 1578000000; Task 540.00.34H0.78 - SPEND FIRST					\$6,227,242.35	\$0.00
	ADMN. CM #0001		\$29,858.19	\$29,858.19		\$6,257,100.54	\$0.00
	Proj 1515780066008; Org 1578000000; Task 540.00.6320.78					\$6,257,100.54	\$0.00
	ADMN. CM #0001		\$0.00			\$6,257,100.54	\$0.00
08/17/07	Proj 15A5780066008; Org 1578000000; Task R40.00.6320.78 - SPEND THIRD					\$6,257,100.54	\$0.00
	ADMN. CM #0002				\$184,108.07	\$6,072,992.47	\$184,108.07
	Proj 15A5780066008; Org 1578000000; Task 540.00.TT10.78 - SPEND LAST?					\$6,072,992.47	\$184,108.07
	ADMN. CM #0002			\$184,108.07		\$6,257,100.54	\$0.00
08/23/07	Est 02 on 540.00.34H0	\$29,858.19			\$29,858.19	\$6,227,242.35	\$0.00
	Est 02 on 540.00.5BF0	\$449,310.82			\$449,310.82	\$5,777,931.53	\$0.00
09/20/07	Est 03 all 540.00.5BF0	\$564,694.39			\$564,694.39	\$5,213,237.14	\$0.00
10/ /07	Est 04 all 540.00.5BF0-will i	\$42,704.28			\$42,704.28	\$5,170,532.86	\$0.00
11/27/07	Est 05 all 540.00.5BF0	\$63,997.16			\$63,997.16	\$5,106,535.70	\$0.00
12/25/07	Est 06 all 540.00.5BF0	\$172,858.70			\$172,858.70	\$4,933,677.00	\$0.00
	Est 07 all 540.00.5BF0	\$227,050.41			\$227,050.41	\$4,706,626.59	\$0.00
02/ /08	Est08per finnc 540.00.5BF0	\$79,294.05			\$79,294.05	\$4,627,332.54	\$0.00
	Est08per finnc 540.00.6320	\$162,701.49			\$162,701.49	\$4,464,631.05	\$0.00
	est total: \$241,995.54					\$4,464,631.05	\$0.00
03/06/08	PR 045 req \$144,127.54 design changes due to finding historic ruins					\$4,464,631.05	\$0.00
03/17/08	PR funded PR 045		\$144,127.54			\$4,464,631.05	\$144,127.54
03/24/08	Est 09 on R40.00.6320	\$401,253.23			\$401,253.23	\$4,063,377.82	\$144,127.54
04/22/08	Est 10 on R40.00.6320	\$264,706.21			\$264,706.21	\$3,798,671.61	\$144,127.54
04/28/08	CM #0003 R40.00.6320 INCLUDES 45 DAYS			\$144,127.54		\$3,942,799.15	\$0.00
	Est 11 on R40.00.632	\$389,454.73			\$389,454.73	\$3,553,344.42	\$0.00
	Est 12 on R40.00.632	\$482,999.45			\$482,999.45	\$3,070,344.97	\$0.00
	Est 13 on R40.00.632	\$158,812.05			\$158,812.05	\$2,911,532.92	\$0.00
08/27/08	Est 14 on R40.00.632	\$129,585.45			\$129,585.45	\$2,781,947.47	\$0.00
09/22/08	Est 15 on R40.00.632	\$333,770.21			\$333,770.21	\$2,448,177.26	\$0.00
10/29/08	Est 16 on R40.00.632	\$80,896.26			\$80,896.26	\$2,367,281.00	\$0.00
11/03/08	PR #013 \$410,000.00 excavation & survey					\$2,367,281.00	\$0.00
11/21/08	Proj 1515780066008;Org 1578000000;Task 540.00.TT10.78 on the PR from PDeWeese					\$2,367,281.00	\$0.00
			\$410,000.00			\$2,367,281.00	\$410,000.00
12/04/08	CM #0004 R40.00.6320 INCLUDES 145 DAYS				\$13.44	\$2,367,267.56	\$410,013.44
12/08/08	Est 17 on R40.00.632	\$139,180.91			\$139,180.91	\$2,228,086.65	\$410,013.44
12/24/08	Est 18 on R40.00.632	\$517,314.27			\$517,314.27	\$1,710,772.38	\$410,013.44
01/21/09	CM #0005 & 108 cal.days			\$409,998.40		\$2,120,770.78	\$15.04
02/05/09	Est 19 on R40.00.632	\$187,653.74			\$187,653.74	\$1,933,117.04	\$15.04
						\$1,933,117.04	\$15.04
	TOTALS	\$5,013,695.36	\$6,946,827.44	#####	#####	\$1,933,117.04	\$15.04



GROUND BREAKING CEREMONY CHRISTIANSTED BYPASS, PHASE 1-A



GROUND BREAKING CEREMONY CHRISTIANSTED BYPASS, PHASE 1-A



STATION 42+00 PRIOR TO CONSTRUCTION



STATION 44+00 PRIOR TO CONSTRUCTION



STATION 48+50 PRIOR TO CONSTRUCTION



STATION 49+50 WEST PRIOR TO CONSTRUCTION



STATION 49+50 EAST PRIOR TO CONSTRUCTION



STATION 53+00 WEST PRIOR TO CONSTRUCTION



STATION 44+00 CLEARING



STATION 46+50 CLEARING



STATION 48+50 CLEARING



STATION 51+00 CLEARING



PREPARING DIVERSION CHANNEL



STATION 48+00 EXCAVATION



STATION 53+09 STAGING FOR 42-INCH REINFORCED CONCRETE PIPE



STATION 60+00 BUILDING DEMOLITION



STATION 61+71 BLASTING



STATION 63+00 DRILLING



STATION 55+50 EAST ROAD WORK



MECHANICALLY STABILIZED EARTH WALL PREPARATION



MECHANICALLY STABILIZED EARTH WALL IN PROGRESS



MECHANICALLY STABILIZED EARTH WALL COMPLETE