



U.S. Department
of Transportation

Federal Highway
Administration

Eastern Federal Lands
Highway Division

Final Construction Report

Project No.: VI 66(9) - CONTRACT 4
Phase 1B
DTFH71-11-C-00021

Location: GOVERNMENT OF THE VIRGIN ISLANDS OF THE
UNITED STATES

Description: Christiansted Bypass and other secondary roads

Submitted by: Miguel Rodriguez
Project Engineer

jameel.siddiqi@dot.gov

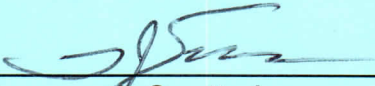
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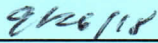
Jameel Siddiqi
Construction Operations Engineer

Date

Approved by:



Thomas J. Scott, Jr.
Construction Engineer



Date

FINAL CONSTRUCTION REPORT

PROJECT VI 66(9) CONTRACT 4 GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES

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FINAL CONSTRUCTION REPORT

PROJECT VI 66(9) - CONTRACT 4 THE GOVERNMENT OF THE VIRGIN ISLANDS OF THE UNITED STATES

I) PROJECT DESCRIPTION

A) Project Number – Project VI 66(9) (C4) was located on the Christiansted Bypass and side roads, St. Croix, United States Virgin Islands (USVI).

B) Description of Work – Project consisted of the final paving of 1.25 miles of the Christiansted Bypass from Contentment Road to East End Road. The work included hot asphalt concrete pavement overlay, side road tie-ins, guardrail installation, pavement markings, traffic signal system and street lighting installations, landscaping, and other miscellaneous work

C) Environmental Considerations –

Territorial Pollutant Discharge Elimination System (TPDES): The USVI Department of Planning and Natural Resources (VIDPNR), Division of Environmental Protection (DEP) issued the Permit VIDSA0000 in correspondence dated August 27, 2008.

Coastal Zone Management (CZM) Permit -VIDPNR determined that the project is consistent with the Coastal Zone Management Act and issued the CZM in correspondence dated June 28, 2004.

Building Permit: The VIDPNR issued the Permit No. 1023 in correspondence dated March 15, 2011.

Earth Change Permit Exemption: VIDPNR issued the Earth Change Permit exemption by correspondence dated January 31, 2011.

II) PROJECT DATA

A) Specifications – Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03.

B) Termini –

Christiansted Bypass	Station 33+60 to 99+80
Line 7:	From Station 5+38 to Station 8+13
Line 8:	From Station 10+00 to Station 13+37
Line 33:	From Station 1+00 to Station 2+83
Line A:	From Station 1+00 to Station 6+14
Line B:	From Station 1+00 to Station 1+63
Line C:	From Station 1+00 to Station 3+33
Line AA:	From Station 1+00 to Station 2+32
Line BB:	From Station 1+00 to Station 2+30
Line CC:	From Station 1+00 to Station 2+54

C) Length –

Christiansted Bypass:	6620.37 feet
Line 7:	275.32 feet
Line 8:	337.31 feet
Line 33:	183.39 feet
Line A:	514.09 feet
Line B:	63.27 feet
Line C:	233.20 feet
Line AA:	132.38 feet
Line BB:	130.00 feet
Line CC:	<u>154.38 feet</u>

Total length	<u>8,643.71 feet</u>
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D) Width –

Christiansted Bypass: Consisted of two 12-foot lanes on each direction from Station 34+00 to Station 40+00 for a total width of 40 feet; from Station 40+00 to Station 46+00 the average width is 52 feet; from Station 46+00 to Station 74+00 the average width is 40 feet; from Station 74+00 to Station 77+00 the average width is 52 feet; from Station 77+00 to Station 84+00 the average width is 40 feet; from Station 84+00 to Station 88+00 the average width is 52 feet; from Station 88+00 to Station 99+80 the average width is 40 feet.

Line 7:	26.00 feet
Line 8:	30.00 feet
Line 33:	24.00 feet
Line A:	20.00 feet
Line B:	15.00 feet
Line C:	20.00 feet
Line AA:	15.00 feet
Line BB:	20.00 feet
Line CC:	15.00 feet

E) Pavement Structure –

The Christiansted Bypass and side roads received new pavement structures from Station 34+00 to Station 99+80. The pavement structure consisted of rolled proofed subgrade with an aggregate base grading (placed on the previous construction phase, Contract 3), 5- inch base course of Marshal Hot Asphalt Concrete pavement Class A, Grading C and a surface course of 2–inch Marshall Hot asphalt concrete pavement Class A, Grading E.

F) Structures – None

G) Contract Number and Date – DTFH71-11-C-00021; September 19, 2011

H) Contracting Officers –

Melisa L. Ridenour	Division Director
Donald W. Miller	Director, Project Delivery
Wanda A. Pfeffer	Contracting Officer
Thomas J. Scott, Jr.	Construction Engineer
Jameel Siddiqi	Construction Operation Engineer

I) Contract Bid Amount – \$5,906,446.00

J) Engineer's Estimate – \$6,751,400.00

K) Final Contract Amount – \$ 6,402,150.50

L) Contract Time –

Award Date:	September 19, 2011
Notice to Proceed:	November 14, 2011
Original Completion date:	September 28, 2012
Authorized Extension Granted:	118 calendar days
Date Substantially Complete:	January 24, 2013
Date All Work Complete:	January 24, 2013
Liquidated Damages Accessed:	None

M) Contractor –

Virgin Islands Paving, Inc.
P.O. Box 1158
Kingshill, VI 00851

N) Subcontractors –

Heights Construction
489 Frangi Pani
Kingshill, VI 00850
Concrete work

\$27,525.00

Lake's Trucking & Heavy Equipment Rental
P.O. Box 465
Kingshill, VI 00851
Pavement Markings, Signs, Equipment

\$265,605.00

Raycon Mechanical, LLC
P.O. Box 600
Kingshill, VI 00851
Electrical Work, Traffic Signs, Plantings

\$1,013,800.00

O) Construction Engineering Costs –

EFLHD PE Costs:	\$ 175,665.12
EFLHD CE Costs:	<u>\$ 250,487.58</u>
Total Cost:	\$ 426,152.70

Percent of the Final Contract Amount – 6.66

P) Maintaining Agency –

United States Virgin Islands, Department of Public Works

III) CONSTRUCTION

A) Materials –

Item No. 30101-4000 Aggregate Base, Grading C

Supplier: Heavy Materials – St. Croix Quarry
P.O. Box 1547,
St. Croix USVI, 00820

Material: Crushed Aggregate – St. Croix Quarry, USVI

Approved Job Mix Design:

Allowable

Target Value <u>Sieves</u>	Deviation <u>(Percent Passing)</u>	Specification <u>(Percent)</u>	<u>(Percent Passing)</u>
2 in	100	-	100
1 in	88-100	±6	80-100
3/4 in	71-83	±6	64-94
3/8 in	40-52	±6	40-69
No. 4	23-35	±6	31-54
No. 200	4.0-11.0	±3.0	4.0-7.0

Maximum Dry Density: 147.2 pounds per cubic foot (pcf)

Optimum Moisture Content: 5.6 percent

Item No. 40201-0700: Hot Asphalt Concrete Pavement, Marshall Test Class A,
Grading C.

Supplier: Virgin Islands Paving, Inc.
P.O. Box 1158
Kingshill, VI 00851

Aggregates: Heavy Materials – St. Croix Quarry
P.O. Box 1547
St. Croix, USVI 00820

Bulk Sp/Gr: 2.548
Apparent Sp/Gr: 2.548

Asphalt Binder Grade and Source: AC 30 (Bitumen 60/70)
Sergeant Marine

Antistripping Additive: Arr-Maz
Winter Heaven, FL
Product Name: Adhere LOF 65-00
Antistrip addition Rate (% of total Binder): 0.75 percent

Job Mix Design Properties:

Allowable Target Value <u>Sieves</u>	Deviation (<u>Percent Passing</u>)	Specification (<u>Percent</u>)	(<u>Percent Passing</u>)
37.5 mm (1 1/2")	100	-	100
25.0 mm (1")	100	-	100
19.0 mm (3/4")	100	-	97-100
12.5 mm (1/2")	94	±5	89-99
9.5 mm (3/8")	86	±6	80-92
4.75 mm (#4)	64	±7	57-71
2.36 mm (#8)	38	±5	33-43
600 µm (#30)	17	±4	13-21
300 µm (#50)	12	±3	9-15
75 µm (#200)	4.7	±2.0	2.7-6.7

Asphalt Content – 5.7 (± 0.4) percent of total mix

Maximum Theoretical Specific Gravity: 2.548

Dust/Asphalt Ratio: 0.8

Voids in Mineral Aggregate (VMA): 15.4 percent

Pay Factor: 0.97

Item No. 40201-0800: Hot Asphalt Concrete Pavement, Marshall Test Class B,
Grading C.

Supplier: Virgin Islands Paving, Inc.
P.O. Box 1158
Kingshill, VI 00851

Aggregates: Heavy Materials – St. Croix Quarry
P.O. Box 1547,
St. Croix, USVI 00820

Bulk Sp/Gr: 2.548
Apparent Sp/Gr: 2.548

Asphalt Binder Grade and Source: AC 30 (Bitumen 60/70)
Sergeant Marine

Antistripping Additive: Arr-Maz
Winter Heaven, FL
Product Name: Adhere LOF 65-00
Antistrip addition Rate (% of total Binder): 0.75 percent

Job Mix Design Properties:

Allowable Target Value <u>Sieves</u>	Deviation (Percent Passing)	Specification (Percent)	(Percent Passing)
37.5 mm (1 1/2")	100	-	100
25.0 mm (1")	100	-	100
19.0 mm (3/4")	100	-	97-100
12.5 mm (1/2")	94	±5	89-99
9.5 mm (3/8")	86	±6	80-92
4.75 mm (#4)	64	±7	57-71
2.36 mm (#8)	38	±5	33-43
600 µm (#30)	17	±4	13-21
300 µm (#50)	12	±3	9-15
75 µm (#200)	4.7	±2.0	2.7-6.7

Asphalt Content – 5.7 (± 0.4) percent of total mix

Maximum Theoretical Specific Gravity: 2.548

Dust/Asphalt Ratio: 0.8

Voids in Mineral Aggregate (VMA): 15.4 percent

Pay Factor: 1.0

Item No. 40201-1300: Hot Asphalt Concrete Pavement, Marshall Test Class A, Grading E (Type VII Smoothness).

Item No. 40201-1400: Hot Asphalt Concrete Pavement, Marshall Test Class B, Grading E (Type VII Smoothness).

Supplier: Virgin Islands Paving, Inc.
P.O. Box 1158
Kingshill, VI 00851

Aggregates: Heavy Materials – St. Croix Quarry
P.O. Box 1547
St. Croix, USVI 00820

Bulk Sp/Gr: 2.424
Apparent Sp/Gr: 2.519

Asphalt Binder Grade and Source: AC 30 (Bitumen 60/70)
Sergeant Marine

Antistripping Additive: Arr-Maz
Winter Heaven, FL
Product Name: Adhere LOF 65-00
Antistrip addition Rate (% of total Binder): 0.75 percent

Job Mix Design Properties:

Allowable Target Value <u>Sieves</u>	Deviation (Percent Passing)	Specification (Percent)	(Percent Passing)
37.5 mm (1 1/2")	100	-	100
25.0 mm (1")	100	-	100
19.0 mm (3/4")	100	-	100
12.5 mm (1/2")	100	-	97-100
9.5 mm (3/8")	100	±5	95-100
4.75 mm (#4)	78	±6	72-84
2.36 mm (#8)	50	±6	44-56
600 µm (#30)	25	±4	21-29
300 µm (#50)	14	±3	11-17
75 µm (#200)	4	±2.0	2.0-6.0

Asphalt Content – 5.9 (± 0.4) percent of total mix

Maximum Theoretical Specific Gravity: 2.519

Dust/Asphalt Ratio: 0.8

Voids in Mineral Aggregate (VMA): 15.3 percent

Pay Factor: 1.0

Item No. 56601-2300: Shotcrete, Grading C, 4-inch depth

Supplier: Heavy Materials
P.O. Box 1577, Frederiksted
St. Croix, USVI 00841

Mix Requirements: Minimum Strength – 4000 pounds per square inch (psi)
in 28 days

Minimum Cement Content – 700 pounds per cubic yard (pcy)

Maximum Water/Cement Ratio – 0.39

Maximum Slump – 4.0 inch Max

Minimum Air Content – 4.0 percent

Portland cement:	AASHTO C150 Type I Trinidad Cement Limited Claxton Bay, Trinidad	700 pcy ± 1%
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Fine Aggregate:	Coarse Sand (ASTM C33) Springfield Quarry, St. Thomas, USVI	1,300 pcy ± 2 %
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Course Aggregate:	Crushed Stone (AASHTO C33 No. 67) Springfield Quarry, St. Thomas, USVI	550 pcy ± 2 %
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Water:	Springfield Quarry, St. Thomas, USVI	275 pcy ± 1 %
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Air Entrainment: MB 90 BASF Masterbuilders Cleveland, OH	6.0 oz/cwt
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Item No. 60201-0800: 24-inch Pipe Culvert.

Supplier: Atlantic Pipe Corp.
Carr. 14 Street 2
Juana Diaz, PR 00795

Item No. 60801-0400: Paved Waterway, Type 4

Item No. 61501-0100: Sidewalk, Concrete

Item No. 61504-1000: Accessibility Ramp, Concrete.

Supplier: Heavy Materials
P.O. Box 1577, Frederiksted
St. Croix, USVI 00841

Mix Requirements: Minimum Strength – 4000 pounds per square inch (psi)
in 28 days

Minimum Cement Content – 620 pounds per cubic yard (pcy)
Maximum Water/Cement Ratio – 0.46
Maximum Slump – 4.0 inch Max
Minimum Air Content – 4.0 percent

Portland cement:	AASHTO C150 Type I	620 pcy
	Trinidad Cement Limited	± 1%
	Claxton Bay, Trinidad	614 – 626 pcy

Fine Aggregate:	Coarse Sand	1,585 pcy
	Springfield Quarry, St. Thomas, USVI	± 2 %
		1553 – 1617 pcy

Course Aggregate:	Crushed Stone (AASHTO C33 No. 67)	1,555 pcy
	Springfield Quarry, St. Thomas, USVI	± 2 %
		24 – 1586 pcy

Water:	Springfield Quarry, St. Thomas, USVI	283 pcy ± 1 %
		280 – 286 pcy

Water Reducer: Polyheed 844R	37.0 oz/cwt
BASF Masterbuilders	± 3 %
Cleveland, Ohio	35.89 – 38.11

B) Experimental or New Features –

None

C) Changes and Problems –

1) Changes

Contract Modification (CM) No. 0001 – This was a bilateral CM which addressed several issues that arose during the performance of contract work as described below:

- a) The installation of LED Light Y-Tap Fuses on the project light poles. To comply with the new FDOT 2012 Electrical Design Standards, EFLHD Highway Design recommended maintaining the ground connection at the base of the pole. To accomplish the requirement, it was necessary to install LED Light Y-Tap Fuses on all light poles.
- b) The installation of LED lights. The USVI Department of Public Works (USVIDPW) requested changing the project high pressure sodium light bulbs to LED lights. The USVI Government wanted to use more energy efficient light fixtures on the island.
- c) Addition of an anti-strip agent to the asphalt mix on the project. To ensure the quality and longevity of the base and surface asphalt, it was determined to add 0.75 percent liquid anti-strip by the weight of asphalt cement to the mix.
- d) Placement of a Flo-Fill mix concrete. The use of Flo-fill mix was intended to address erosion problems at Line A after heavy rains fell on the Island; the water caused erosion along the newly paved waterway, undermining the foundation of the structure. The paved waterway was located on the side road labeled Line A on station 79+00. To correct the situation, a Flo-Fill mix was placed on the damaged areas.

The contract was increased by \$95,000.24 Contract time increased by 60 calendar days

CM No. 0002 - This was a bilateral CM which addressed several issues that had arisen during the performance of contract work as described below:

- a) The first issue concerned a new item for the installation of reinforcing liner on an existing 72 inch pipe. During the execution of Contract 2, a 72 inch RCP pipeline was installed across the bypass at station 73+50. After an inspection of the pipe, several cracks were found, suggesting a structural failure on the pipeline. The USVIDPW requested the installation of a reinforcing pipe liner to address the structural problems on the 72-inch RCP pipeline.
- b) The second issue concerned a new item for the installation of a Video Detection System for the Traffic Signals. The USVIDPW requested to change the signal lighting systems on the project to fully actuated systems complete with video detection. The original design was to provide a semi-actuated system with only one intersection with video detection. This upgrade to the signal system was applied to all three signalized intersections on the Christiansted Bypass project.
- c) The third issue concerned a new item for the installation of a new billboard sign. The USVIDPW requested the installation of a billboard sign for the Contentment Historic Site. The USVI Government wanted to promote the future renovation of the Historic Site.
- d) The fourth issue concerned a new item for the installation of Chain Link Fence. The USVIDPW requested the installation of a new chain link fence on the west side of the Contentment Historic Site to replace the existing damaged fence. In addition, to ensure the safety of the residents living along stations 88+00 to 89+00 north, it was necessary to install a new section of chain link fence.
- e) The fifth issue concerned a new item for pull box modifications. When finishing the placement of the final surface asphalt, it was necessary to modify the elevations of six existing pull boxes to ensure the proper grading of the Bypass.
- f) The sixth issue concerned a new item for drainage inlet modification. The entrance of the Peter's Farm Apartments, located at station 58+75, was not safe for drivers and residents of the area. To correct the situation, it was necessary to increase the height of an existing drainage inlet and backfill the surrounding area.
- g) The seventh issue concerned the widening of the East End Road intersection. The design for the intersection called for three lanes of traffic (two turning lanes and one true lane), but unfortunately we had

space for only two lanes. To correct the situation going to add a 12 foot lane on the south side of the road. This lump sum was added, which included the following: Survey, Traffic Control, Roadway Excavation, Asphalt, Pavement Markings, Box culvert installation, Utility Relocation, Removal of concrete, concrete sidewalk, and bollards installation.

The contract was increased by \$ 403,639.71 No change in contract time

CM No. 0003 - This was a bilateral CM which addressed several issues that had arose during the performance of contract work as described below:

- a) The first issue concerned a new item for the Clearing of Roadway Entrances. The USVIDPW requested the clearing of roadway entrances located along the new Road AA and Contentment Road to improve access to the new Christiansted Bypass.
- b) The second issue was the location and adjustment of manholes on the East End Road. During the East End Intersection modifications, the VI Waste Management requested that we locate several manholes that were buried on the intersection. After the manholes were located, their elevations were adjusted to match the new grading of the intersection.
- c) The third issue was the relocation of three electrical poles. During the construction work for the addition of an extra turning lane on the East End Intersection (as directed on CM No. 0002), it was necessary to relocate three electric poles. The work was coordinated with the utility company (WAPA). The work necessary for the relocation was performed with both WAPA and VI Paving personnel.
- d) The fourth issue was a drainage repair (East End Road). During the construction work for the addition of the extra turning lane on the East End Intersection, it was discovered that an existing drainage needed repairs. The repairs were necessary because of the grade modifications on the road (to ensure proper drainage on the new road).
- e) The fifth issue was the new pedestrian push button access (Contentment Road Intersection). The VIDPW requested better access to the pedestrian push button located on the Contentment Road Intersection (station 43+00). This modification allowed better and safer access for users on the intersection.

The contract was decreased by \$2,935.45 Contract time increased by 58 calendar days

Significant Overruns and Underruns

Overruns:

41202-0000 Tack Coat – The original quantity for this item was 335 gallons. The quantity required to complete the contract was 2,200 gallons, an overrun of 1,865 gallons or 556.72 percent of the original quantity. The original estimate for the tack coat only took into consideration the quantity needed for the placement of asphalt on the side roads, but did not include the necessary quantity for the asphalt of the main road.

56601-2300 Shotcrete, Grading C, 4-inch depth - The original quantity for this item was 320 square yards. The quantity required to complete the contract was 363.64 square yards, an overrun of 43.64 square yards or 13.64 percent of the original quantity. The original quantity was underestimated.

60201-0800 24-inch pipe culvert - The original quantity for this item was 50 linear feet. The quantity required to complete the contract was 68 linear feet, an overrun of 18 linear feet or 36 percent of the original quantity. The original quantity was underestimated.

61702-0400 Terminal Section Type G4-CRT - The original quantity for this item was 6 each. The quantity required to complete the contract was 7 each, an overrun of 1.0 or 16.67 percent of the original quantity. To improve the safety of the users, an additional end section was needed.

Underruns:

15705-0100 Soil Erosion Control, Silt Fence (Wire Backed) - The original quantity for this item was 2,100 linear feet. The quantity required to complete the contract was 894 linear feet, an underrun of 1,206 linear feet or 57.43 percent of the original quantity. The contractor's maintenance program made it possible to keep the silt fence in place longer. That made it unnecessary to frequently replace the material, making the savings possible.

15706-1000 Soil Erosion Control, Inlet Protection - The original quantity for this item was 28 each. The quantity required to complete the contract is 17 each, an underrun of 11 each or 39.29 percent of the original quantity. The contractor's maintenance program made it possible to keep the inlet protection in place longer. That made it unnecessary to frequently replace the material, making the savings possible.

15706-1600 Soil Erosion Control, Stabilized Construction Entrance - The original quantity for this item was 3 each. The quantity required to complete the contract was 2 each, an underrun of 1 each or 33.33 percent of the original quantity. Because of the project configuration it was necessary to only stabilize two entrances.

20420-0000 Embankment Construction - The original quantity for this item was 400 cubic yards. The quantity required to complete the contract was 0 cubic yards, an underrun of 400 cubic yards or 100 percent of the original quantity. Because of the project configuration, it was not necessary to place embankment material.

25101-2000 Placed Riprap, Class 2 - The original quantity for this item was 10.0 cubic yards. The quantity required to complete the contract was 0 cubic yards, an underrun of 10.0 or 100.00 percent of the original quantity. The riprap was not necessary.

30101-4000 Aggregate Base Grading C or D - The original quantity for this item was 2,400 tons. The quantity required to complete the contract was 959.67 tons, an underrun of 1,440.33 tons or 60.01 percent of the original quantity. Most of the grading was performed on the previous phase of the project (Contract 3). After finishing the entire project grading, we found that the original quantity was overestimated.

41301-0600 Asphalt Pavement Milling, 2-inch depth - The original quantity for this item was 1,000 square yards. The quantity required to complete the contract was 0 square yards, an underrun of 1,000 square yards or 100 percent of the original quantity. Most of the grading was performed on the previous phase of the project (Contract 3). Because of the project grading, it was not necessary to mill the transitions for the existing asphalt.

63506-0500 Temporary Traffic Control, Flagger - The original quantity for this item was 590 hours. The quantity required to complete the contract was 494 hours, an underrun of 96.0 hours or 16.27 percent of the original quantity.

65101-1000 Draped Rockfall Protection, Wire Mesh - The original quantity for this item was 560 square yards. The quantity required to complete the contract was 420 square yards, an underrun of 140 square yards or 25 percent of the original quantity.

2) Problems

None

D) Recommendations – None

E) Claims – None

IV) CONSTRUCTION ENGINEERING

A) Project Personnel –

Miguel Rodriguez, Project Engineer

B) Contract Inspection – None

C) Other Contacts –

Department of Public Works:

Wystan Benjamin, DPW Highway program engineer

John Paul David, DPW Construction project manager

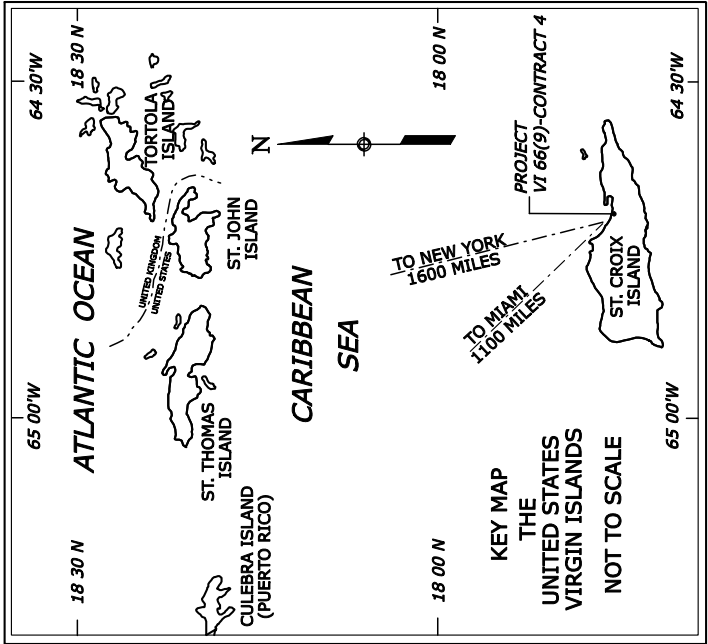
D) Partnering –

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

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
SE	VI	VI 66(9)-CONTRACT 4	A01	198

THE GOVERNMENT OF THE VIRGIN ISLANDS

OF THE UNITED STATES



PLANS FOR PROPOSED

PROJECT VI 66(9) - CONTRACT 4

PHASE 1B

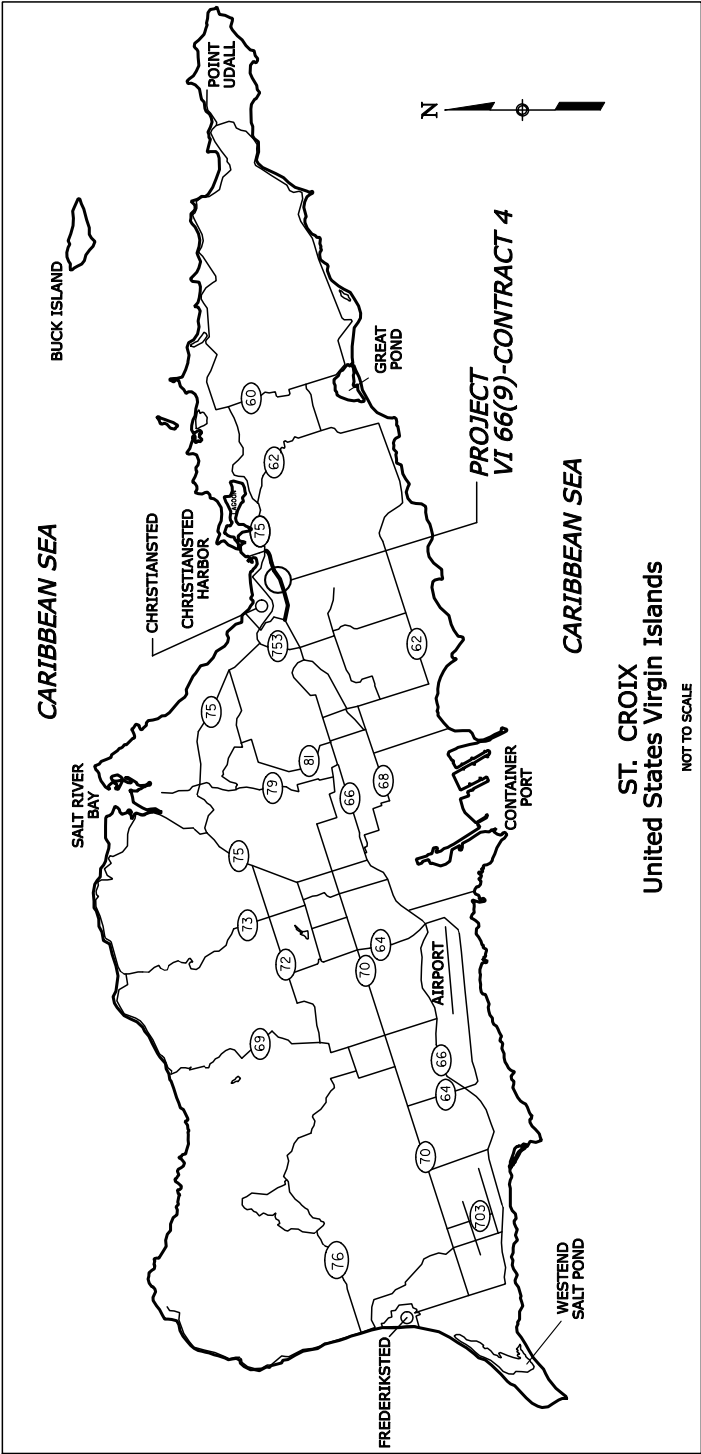
CHRISTIANSTED BYPASS AND OTHER SECONDARY ROADS

RED LINE DRAWINGS

SHEET NO	DESCRIPTION
A01	Title Sheet
A02	Symbols And Abbreviations
A03	Location Map
A04	Survey Information Sheet
A05 - A08	Alignment Data
B01-B14	Typical Sections
C01	Tabulation of Quantities
C02	Mileage Tabulation
C03-C21	Schedules And Summaries
D01-D8	Plans And Profiles
D9-D15	Signal And Lighting Plans
D16-D20	Utility V.I.W.A.P.A Plans (For Information Only)
D21-D22	Utility INNOVATIVE Plans (For Information Only)
D23	Drainage Cross Section
E01-E02	Layout And Landscaping Plans at Overlook
E03-E04	Layout And Landscaping Plans at Historical Ruins
M01	Erosion Control Nairrative
M02-M06	Erosion And Sediment Control Plans
N01-N07	Construction Traffic Control Plans
P01-P08	Signing And Striping Plans
P09-P15	Traffic Signal Plans
S01-S66	Standards And Details
T01-T23	Cross Sections Christiansted Bypass
U01-U11	Cross Sections Secondary Roads

INDEX TO SHEETS

ST. CROIX, U.S. Virgin Islands



DESCRIPTION OF PROJECT

IMPROVEMENT: Paving of Christiansted Bypass and adjacent roads, installation of street lighting, traffic signal system and signs, pavement markings, and miscellaneous work.

PROJECT LENGTH: 1.65 Miles

ROAD:	WIDTH	TYPE
SURFACE:	48' +/-	Asphalt
BASE	48' +	Aggregate (Existing)
ROADBED	48' +	Existing
BRIDGE:	N/A	

DESIGN DESIGNATION:

ADT (2009)	0
ADT (2029)	20,000
DHV	1,500
D	50/50
%Truck	10%
V (MPH)	40
C/A	None
e(max)	6%

SPECIFICATIONS:

"Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects", FP-03 U.S.Customary Units.

Project Manager	Lead Designer
Selam Hallegiorgis	Kossi Adjaka

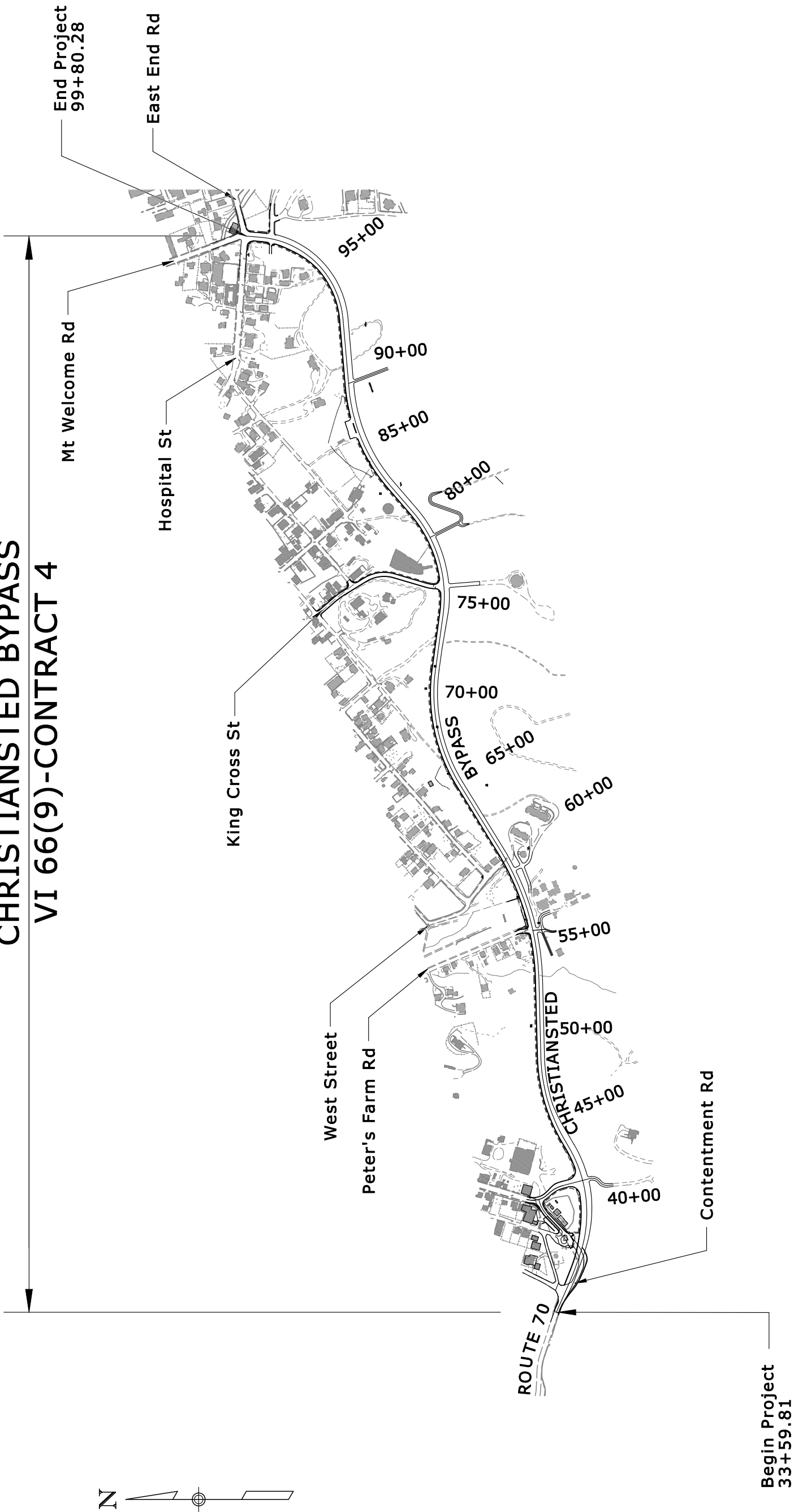
PLANS PREPARED BY



EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA
JUNE 2011

REG	STATE	PROJECT	SHEET NO.
SE	VI	VI 66(9)-CONTRACT 4	A03

CHRISTIANSTED BYPASS
VI 66(9)-CONTRACT 4



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

CHRISTIANSTED BYPASS

LOCATION MAP

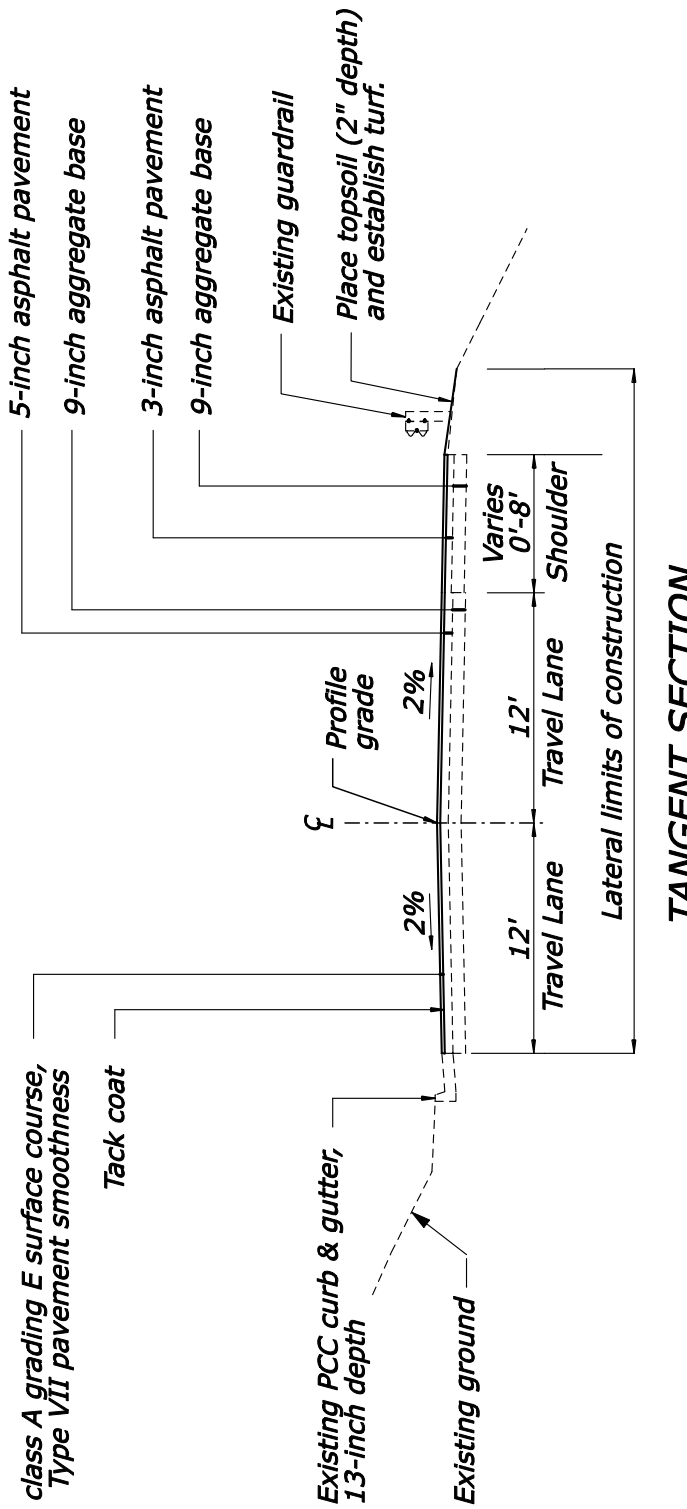


REG	STATE	PROJECT	SHEET NO.
SE	VI	VI 66(9)-CONTRACT 4	B01

EXISTING PAVEMENT STRUCTURE



2-inch HACP, class A grading E surface course,
Type VII pavement smoothness

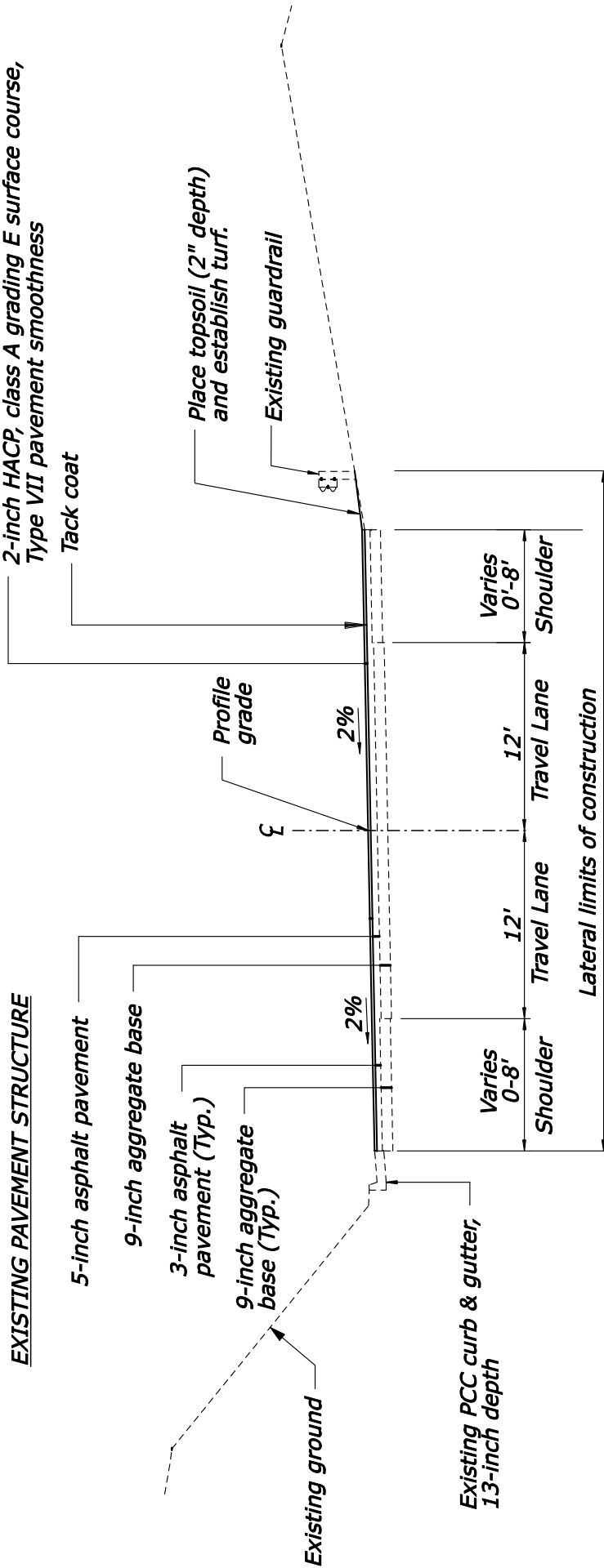


TANGENT SECTION

33+59.81 TO 37+40

PROPOSED PAVEMENT STRUCTURE

**2-inch HACP, class A grading E surface course,
Type VII pavement smoothness**



SUPERELEVATED SECTION

33+59.81 TO 37+40

Note :

- 1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.**

Sheet 1 of 14

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

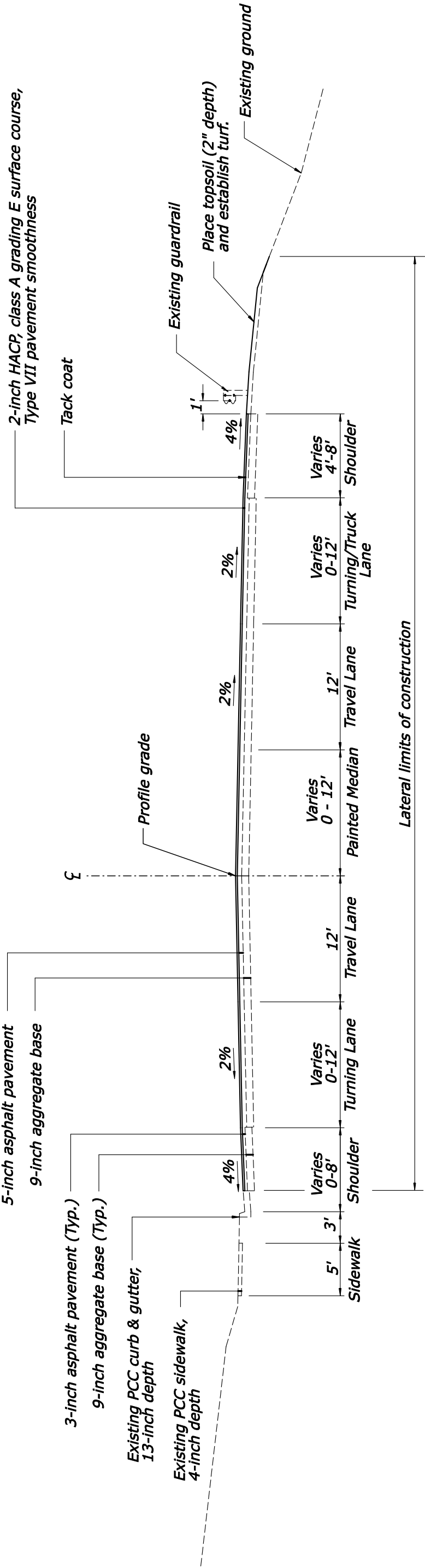
CHRISTIANSTED BYPASS

TYPICAL SECTIONS

No Scale

EXISTING PAVEMENT STRUCTURE

PROPOSED PAVEMENT STRUCTURE



TANGENT SECTION

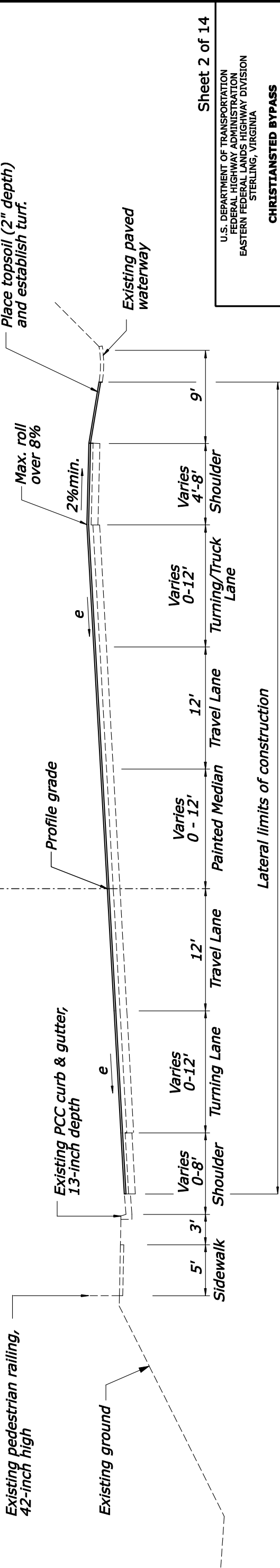
37+40 TO 42+00

Note :

EXISTING PAVEMENT STRUCTURE
(Same as tangent section)

PROPOSED PAVEMENT STRUCTURE
(Same as tangent section)

1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.



SUPERELEVATED SECTION

37+40 TO 42+00

No Scale

Sheet 2 of 14

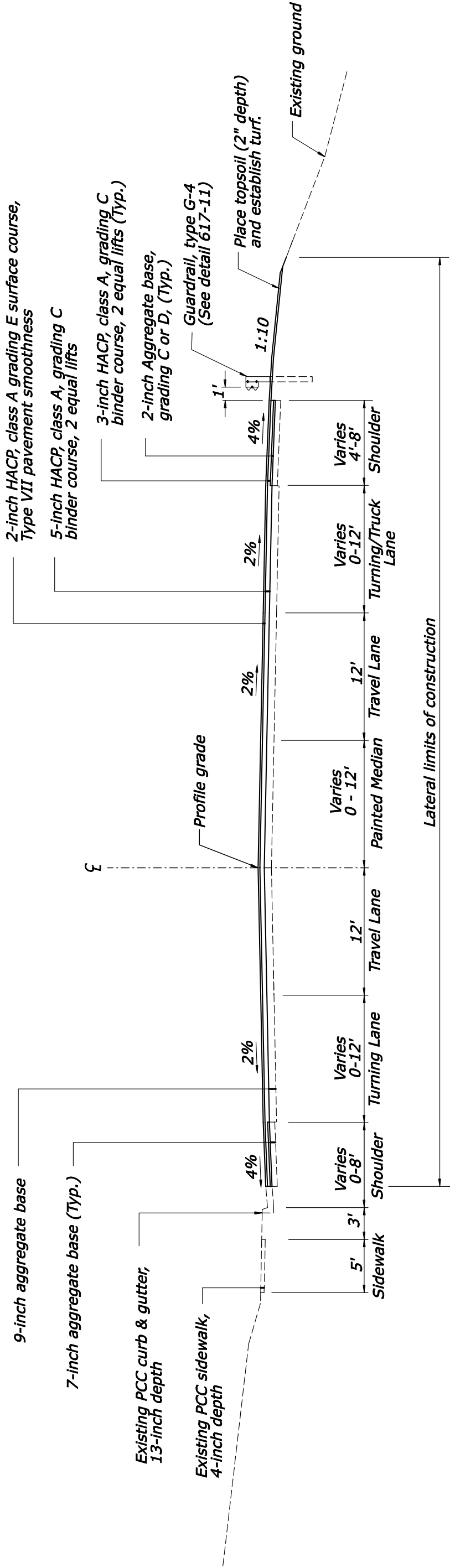
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CHRISTIANSTED BYPASS

TYPICAL SECTIONS

EXISTING PAVEMENT STRUCTURE

PROPOSED PAVEMENT STRUCTURE



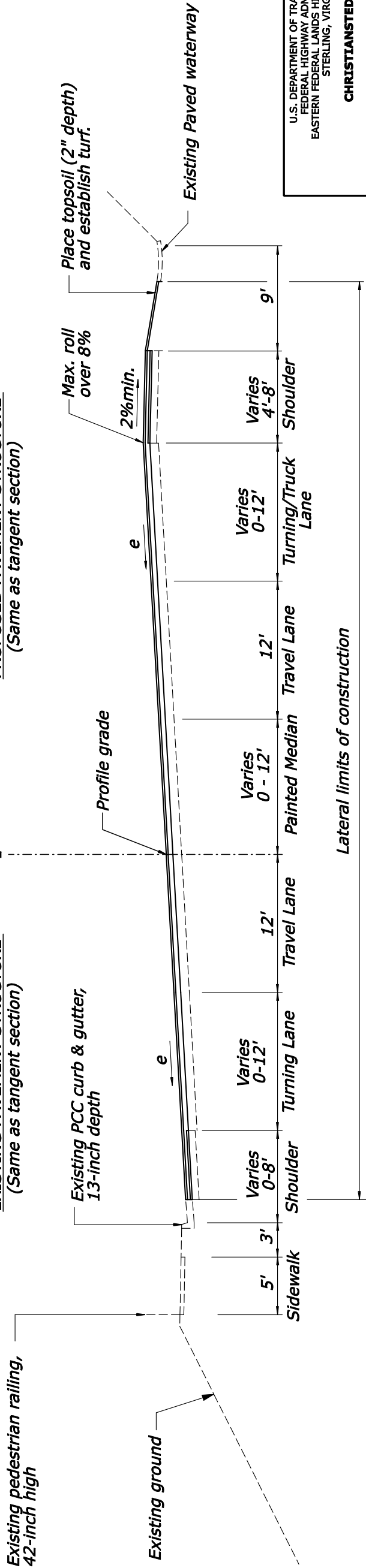
TANGENT SECTION
42+00 TO 45+75

Note :

1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

EXISTING PAVEMENT STRUCTURE
(Same as tangent section)

PROPOSED PAVEMENT STRUCTURE
(Same as tangent section)

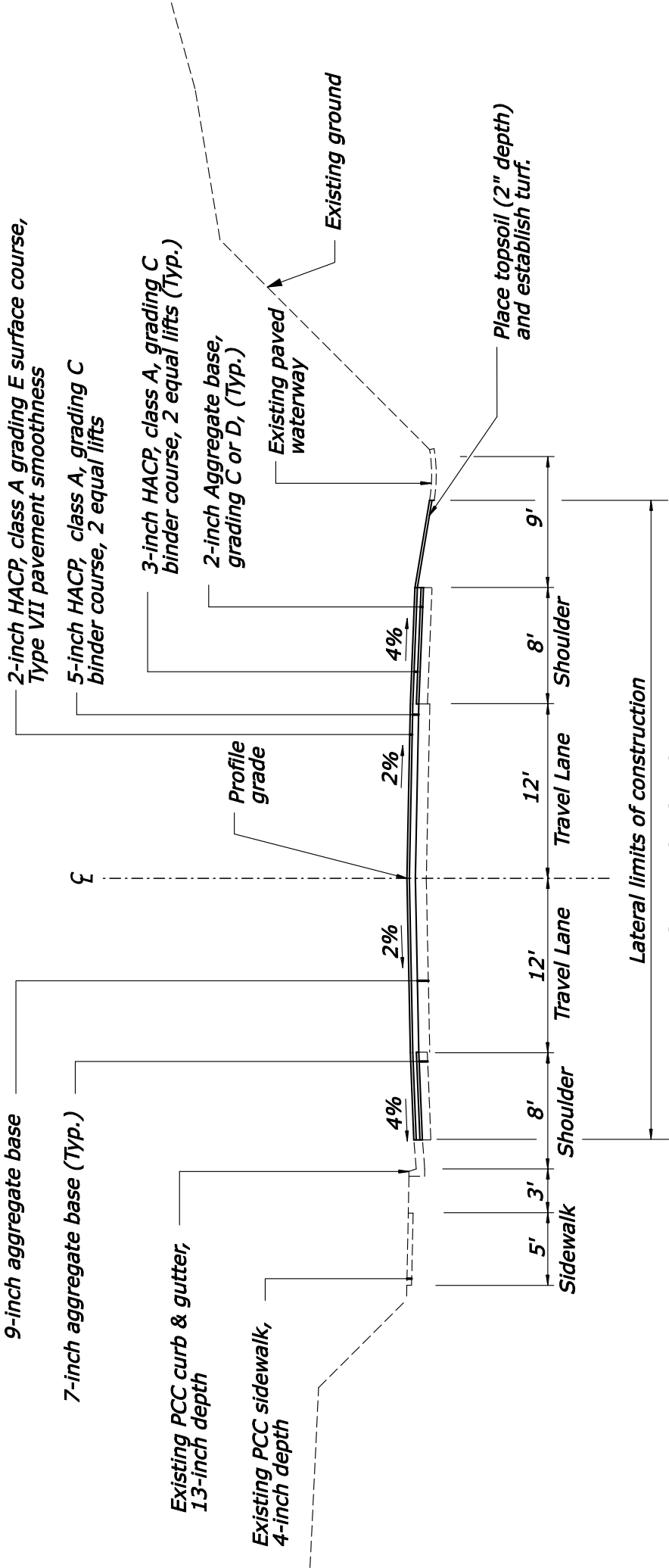


SUPERELEVATED SECTION
42+00 TO 45+75

No Scale

EXISTING PAVEMENT STRUCTURE

PROPOSED PAVEMENT STRUCTURE



TANGENT SECTION

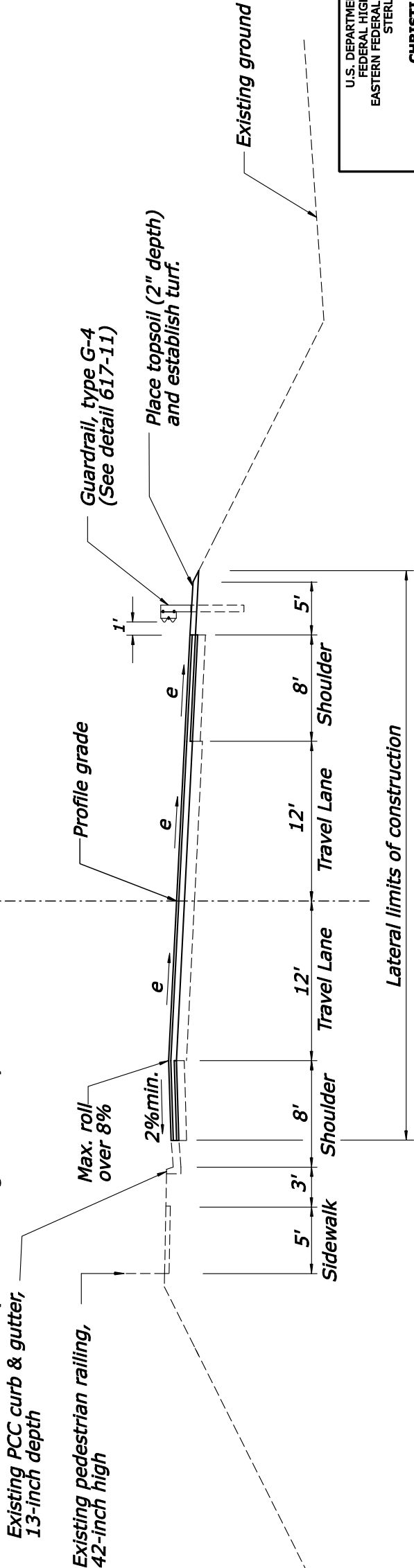
45+75 TO 55+00
59+20 TO 71+17

Note :

- 1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

EXISTING PAVEMENT STRUCTURE
(Same as tangent section)

PROPOSED PAVEMENT STRUCTURE
(Same as tangent section)



SUPERELEVATED SECTION

45+75 TO 55+00
59+20 TO 71+17

Sheet 4 of 14

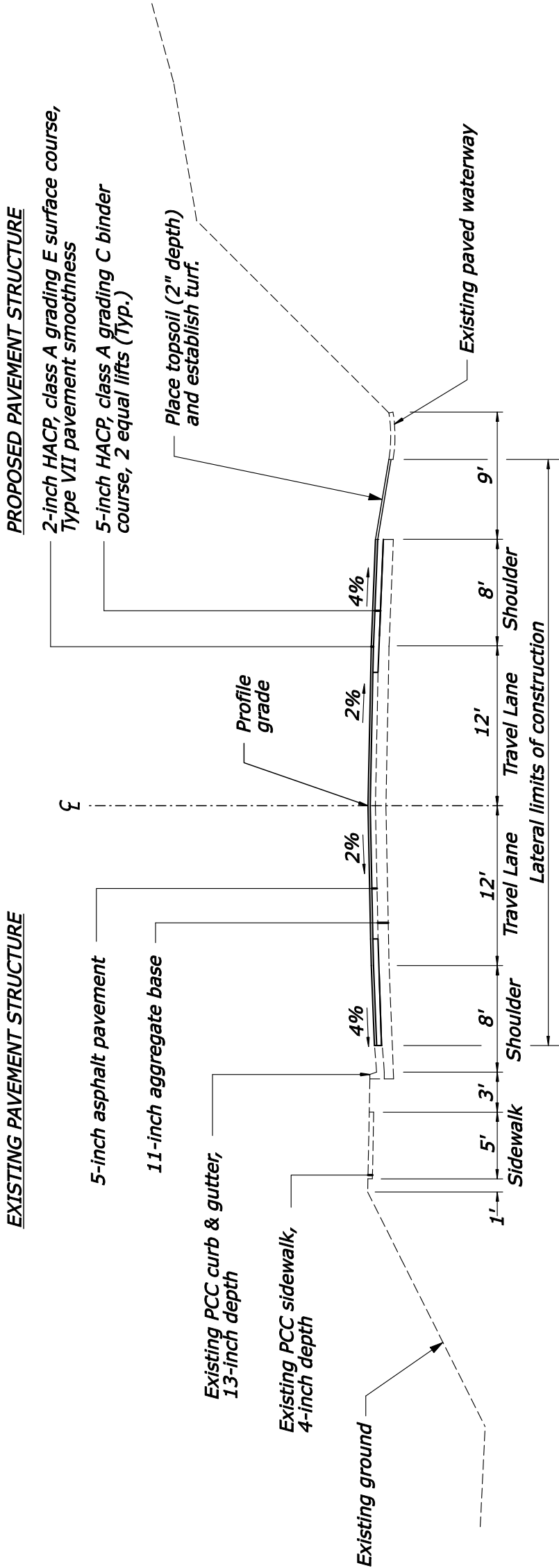
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

CHRISTIANSTED BYPASS

TYPICAL SECTIONS

No Scale

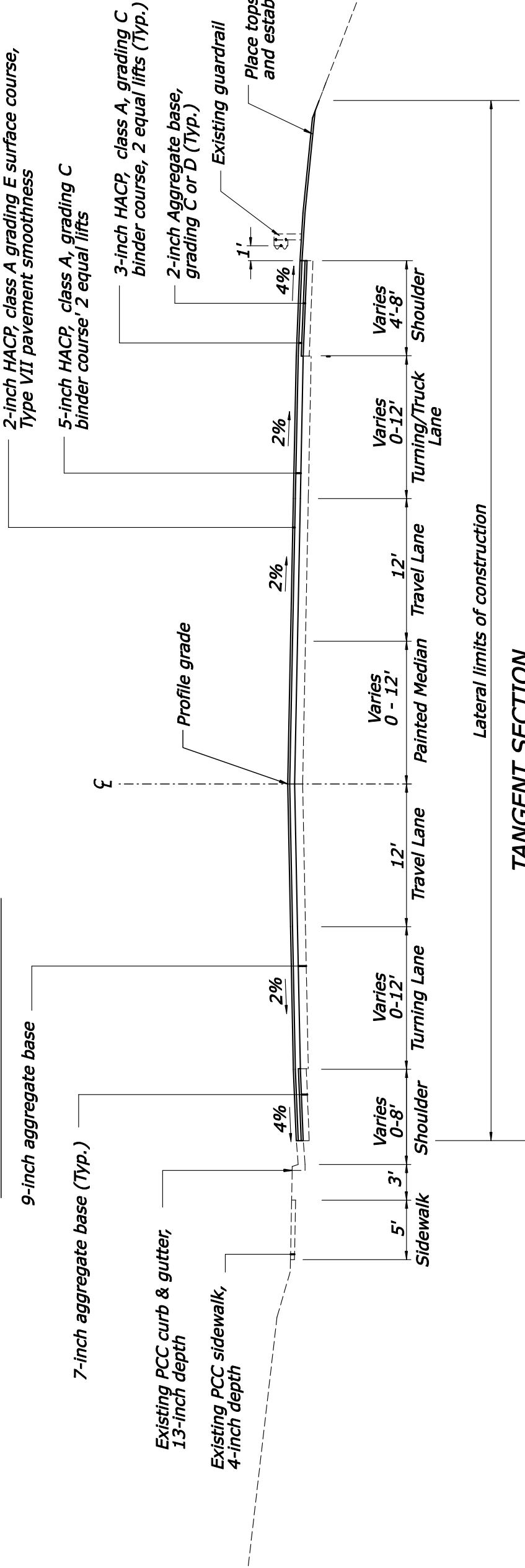
REG	STATE	PROJECT	SHEET NO.
SE	VI	VI 66(9)-CONTRACT 4	B05



CHRISTIANSTED BYPASS
55+00 TO 59+20

Note :
1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

PROPOSED PAVEMENT STRUCTURE



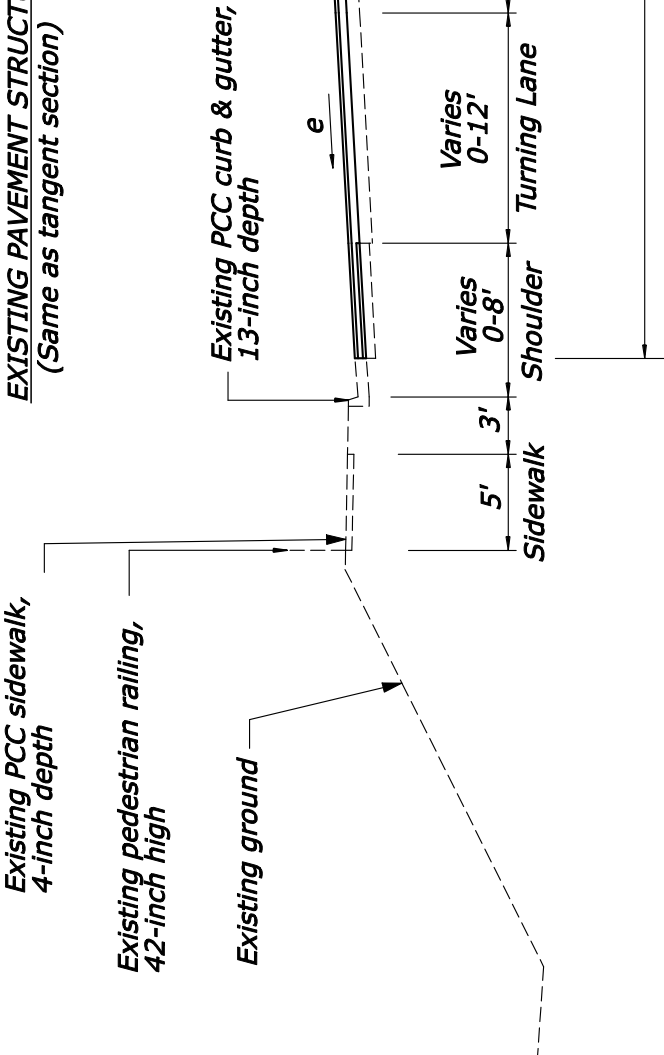
TANGENT SECTION
71+17 TO 76+00
78+80 TO 83+33

Note :

- 1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

PROPOSED PAVEMENT STRUCTURE
(Same as tangent section)

EXISTING PAVEMENT STRUCTURE
(Same as tangent section)



SUPERELEVATED SECTION
71+17 TO 76+00
78+80 TO 83+33

No Scale

REG	STATE	PROJECT	SHEET NO.
SE	VI	VI 66(9)-CONTRACT 4	B07

PROPOSED PAVEMENT STRUCTURE

2-inch HACR, class A grading E surface course,
Type VII pavement smoothness

5-inch HACR, class A, grading C
binder course, 2 equal lifts

Place topsoil (2" depth)
and establish turf.

Profile
grade

Existing paved waterway

EXISTING PAVEMENT STRUCTURE:

11-inch aggregate base

Existing PCC curb & gutter,
13-inch depth

Existing PCC sidewalk,
4-inch depth

Existing pedestrian railing,
42-inch high

Existing ground

Sidewalk

Shoulder

Travel Lane

Travel Lane

Shoulder

Lateral limits of construction

CHRISTIANSTED BYPASS

76+00 TO 78+80

Note :

1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

Sheet 7 of 14

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

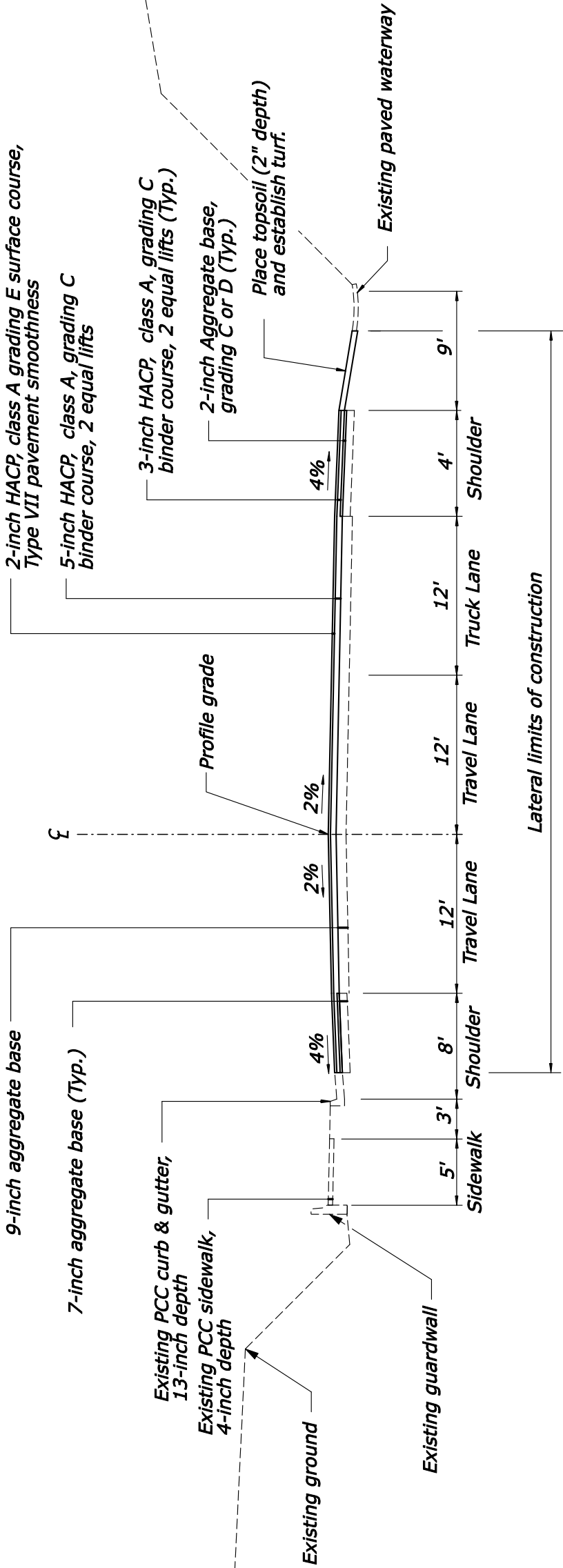
CHRISTIANSTED BYPASS

TYPICAL SECTIONS

No Scale

EXISTING PAVEMENT STRUCTURE

PROPOSED PAVEMENT STRUCTURE

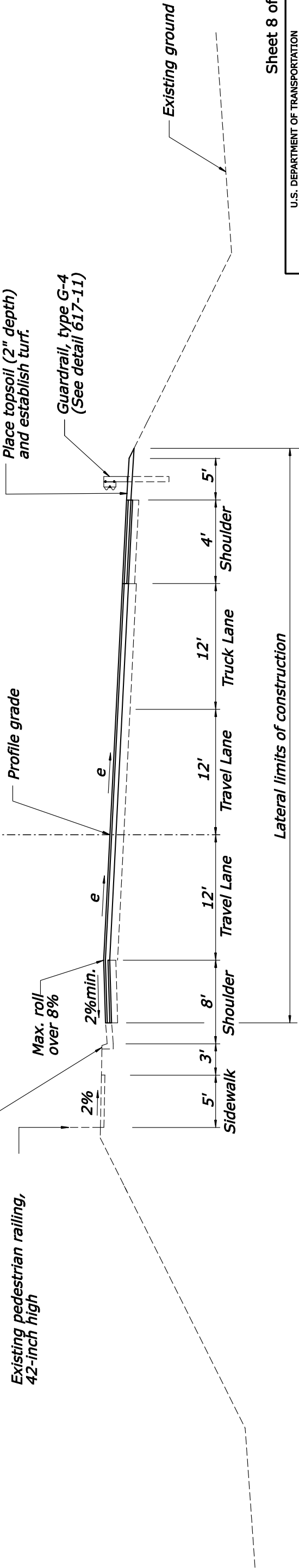


TANGENT SECTION
83+33 TO 88+25

Note :
1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

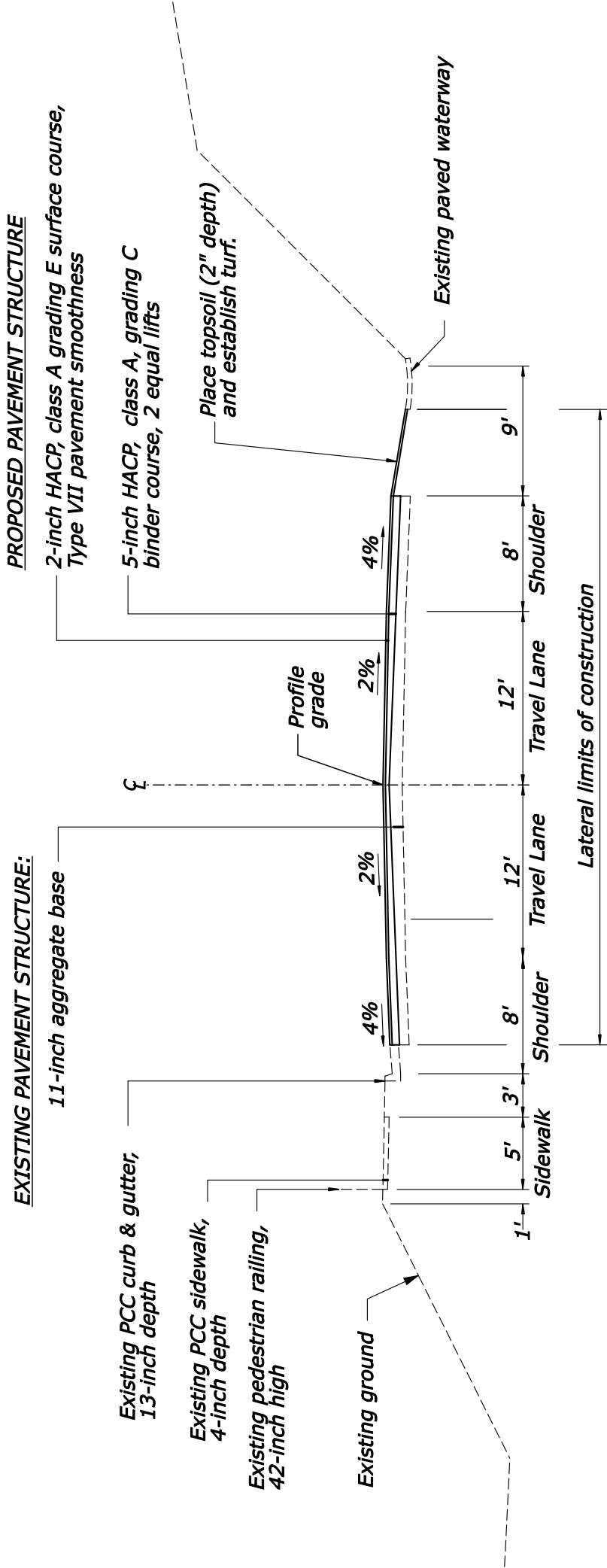
EXISTING PAVEMENT STRUCTURE
(Same as tangent section)

PROPOSED PAVEMENT STRUCTURE
(Same as tangent section)



SUPERELEVATED SECTION
83+33 TO 88+25

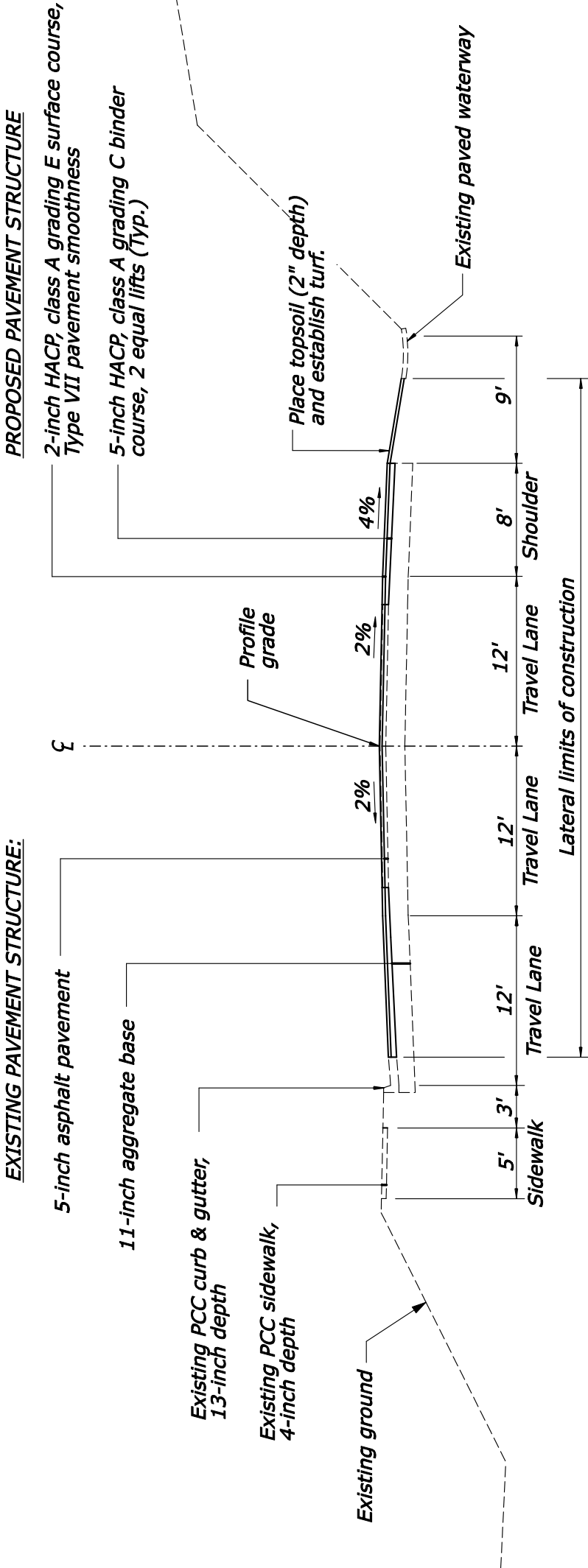
REG	STATE	PROJECT	SHEET NO.
SE	VI	VI 66(9)-CONTRACT 4	B09



CHRISTIANSTED BYPASS
88+25 TO 98+00

Note :
1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

REG	STATE	PROJECT	SHEET NO.
SE	VT	VT 66(9)-CONTRACT 4	B10



CHRISTIANSTED BYPASS
98+00 TO 99+80

Note :

1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

Sheet 10 of 14

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

CHRISTIANSTED BYPASS

TYPICAL SECTIONS

No Scale

VINES UNABLE TO BE PLANTED
DUE TO SPACE RESTRAINTS

IT WAS DETERMIND THAT THE
BLOCKS WHERE NOT NECESSARY

~~Plant Mexican
Wedding Vine
(See Note 3)~~

~~Paint existing
concrete block
(see Note 2)~~

PROPOSED PAVEMENT STRUCTURE

2-inch HACP, class A grading E surface
Type VII pavement smoothness

5-inch HACP, class A, grading C
binder course, 2 equal lifts

EXISTING PAVEMENT STRUCTURE

9-inch Aggregate base

Existing PCC curb
& gutter

Existing PCC
sidewalk,

Existing
guardwall

~~Plant Mexican
Wedding Vine
(see Note 3)~~

~~Plant Mexican
Wedding Vine
(See Note 3)~~

MEXICAN WEDDING
VINE REPLACED WITH
FICUS REPEN VINE

Notes :

1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.
2. Paint existing concrete blocks on slope with natural color that match the surrounding environment or as directed by the CO.
3. Mexican Wedding Vine
Total number=400, 1 Gallon Containers
Planted 2' O.C. along edge of existing cut slope (in existing soil) as directed by the Project Engineer)

FICUS REPEN VINE (NORTH SIDE)

STATION 44+00 TO 45+00
STATION 50+00 TO 51+00

CHRISTIANSTED BYPASS

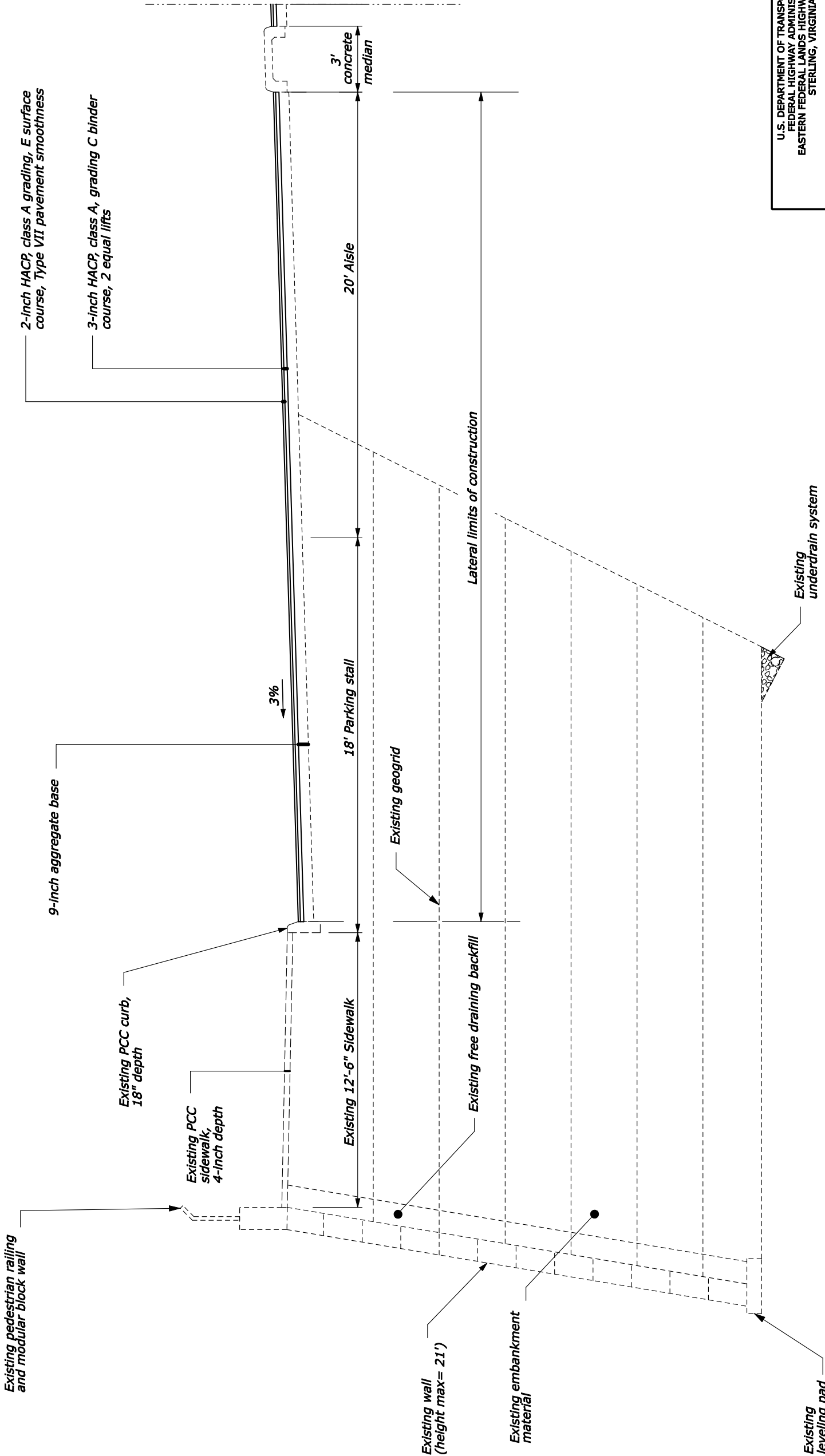
CUT A: 64+50 TO 70+00 RT
CUT B: 88+50 TO 99+50 LT
90+00 TO 95+50 RT
CUT C: 79+50 TO 83+50 RT

No Scale

REG	STATE	PROJECT	SHEET NO.
SE	VI	VI 66(9)-CONTRACT 4	B12

EXISTING PAVEMENT STRUCTURE

PROPOSED PAVEMENT STRUCTURE



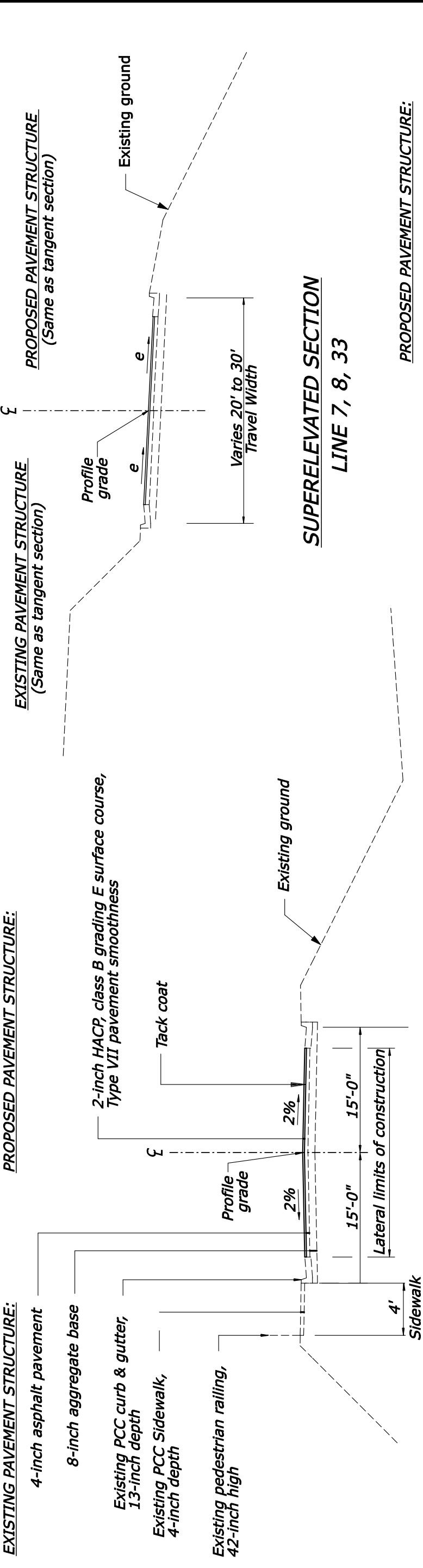
Sheet 12 of 14

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

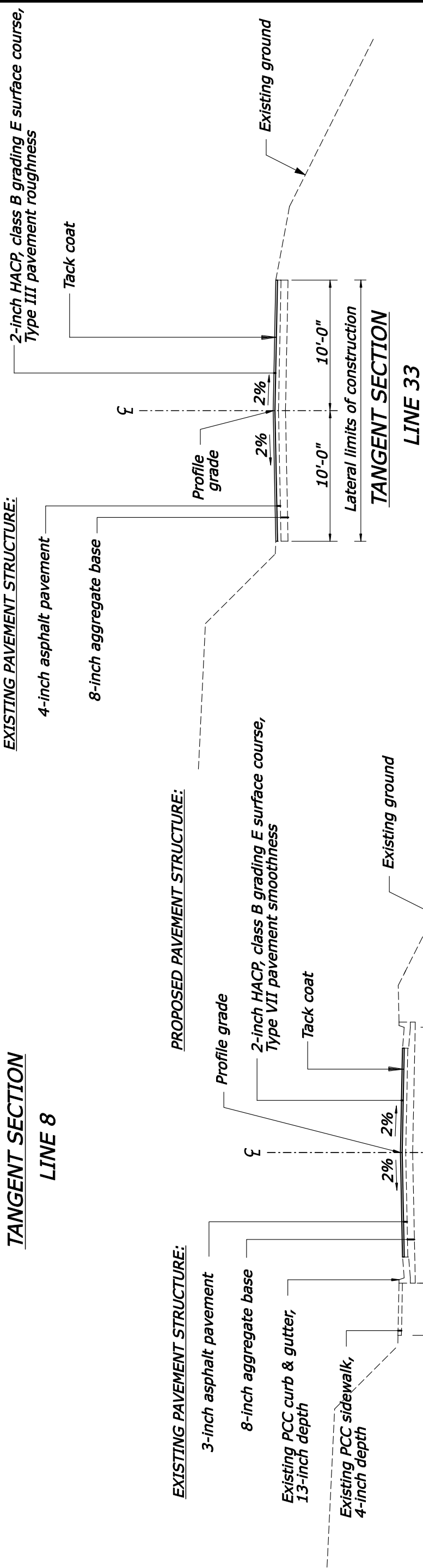
CHRISTIANSTED BYPASS

TYPICAL SECTIONS

CHRISTIANSTED BYPASS - OVERLOOK
85+50 TO 86+50
No Scale



SUPERELEVATED SECTION
LINE 7, 8, 33



TANGENT SECTION
LINE 8

Note :
1. Place topsoil (2 inch depth) and establish turf on all disturbed areas, except paved or rock surfaces.

Sheet 13 of 14

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

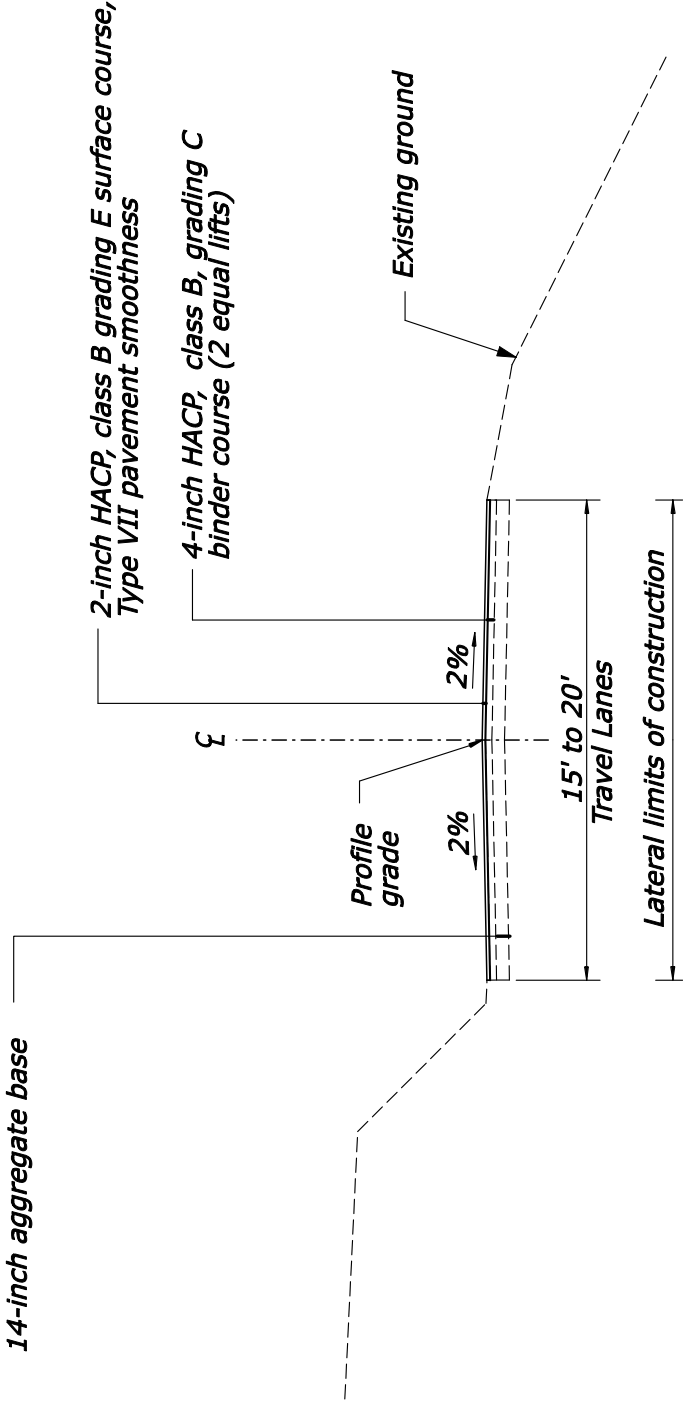
CHRISTIANSTED BYPASS

TYPICAL SECTIONS

No Scale

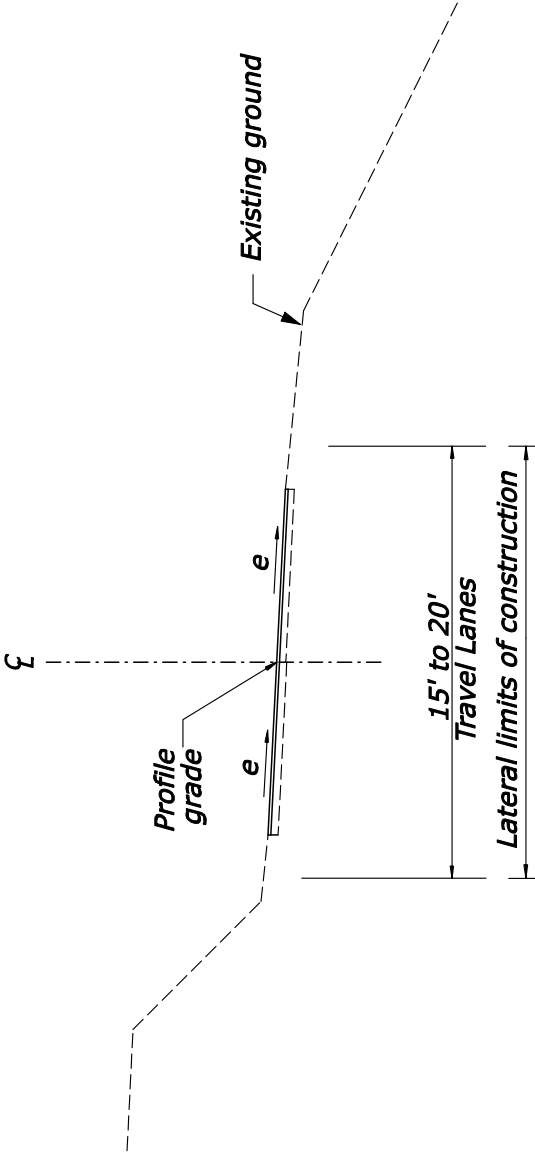
EXISTING PAVEMENT STRUCTURE:

PROPOSED PAVEMENT STRUCTURE:



TANGENT SECTION
LINE A, B, C, AA, BB, CC

Travel Lanes	Lines	Sidewalk	Curb & Gutter
15'	A, B, C	No	No
10'	AA, CC	No	No
20'	BB	No	No



SUPERELEVATED SECTION
LINE A, B, C, AA, BB, CC

TABULATION OF BIDS

Bid Schedule A

Project No.: VI 66(9)-CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

State: VI
County: St. Croix, USVI

Opened at: St. Croix
By: Peggy Schaad
Date: 08/25/2011

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

Signed: Peggy Schaad

Title: Contract Specialist Date: 08/25/2011

Contract Awarded to: Virgin Islands Paving, Inc. Date: 09/19/2011

Contractor	Bid Amount	Responsive
Virgin Islands Paving, Inc. P.O. Box 4720 Kingshill, VI 00851-4720	5,534,121.00	
Island Roads Corporation 6501 Red Hook Plaza Suite 201 St. Thomas, VI 00802	7,548,579.00	
Engineer's Estimate	6,751,400.00	

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
15101-0000	LPSM	MOBILIZATION			
	Virgin Islands Paving, Inc.		ALL	570,000.00	570,000.00
	Island Roads Corporation			750,000.00	750,000.00
	ENGINEER'S ESTIMATE			676,326.50	676,326.50
15201-0000	LPSM	CONSTRUCTION SURVEY AND STAKING			
	Virgin Islands Paving, Inc.		ALL	80,000.00	80,000.00
	Island Roads Corporation			50,000.00	50,000.00
	ENGINEER'S ESTIMATE			140,000.00	140,000.00
15401-0000	LPSM	CONTRACTOR TESTING			
	Virgin Islands Paving, Inc.		ALL	120,000.00	120,000.00
	Island Roads Corporation			60,000.00	60,000.00
	ENGINEER'S ESTIMATE			140,000.00	140,000.00
15701-0000	LPSM	SOIL EROSION CONTROL (REMOVAL OF EXISTING SOIL EROSION CONTROL)			
	Virgin Islands Paving, Inc.		ALL	45,000.00	45,000.00
	Island Roads Corporation			10,000.00	10,000.00
	ENGINEER'S ESTIMATE			4,000.00	4,000.00
15705-0100	LNFT	SOIL EROSION CONTROL, SILT FENCE (WIRE BACKED)			
	Virgin Islands Paving, Inc.		2,100	25.00	52,500.00
	Island Roads Corporation			10.00	21,000.00
	ENGINEER'S ESTIMATE			9.50	19,950.00
15706-1000	EACH	SOIL EROSION CONTROL, INLET PROTECTION			
	Virgin Islands Paving, Inc.		28	2,000.00	56,000.00
	Island Roads Corporation			500.00	14,000.00
	ENGINEER'S ESTIMATE			1,000.00	28,000.00
15706-1600	EACH	SOIL EROSION CONTROL, STABILIZED CONSTRUCTION ENTRANCE			
	Virgin Islands Paving, Inc.		3	6,000.00	18,000.00
	Island Roads Corporation			5,000.00	15,000.00
	ENGINEER'S ESTIMATE			4,500.00	13,500.00
20301-2400	EACH	REMOVAL OF SIGN			
	Virgin Islands Paving, Inc.		6	50.00	300.00
	Island Roads Corporation			100.00	600.00
	ENGINEER'S ESTIMATE			170.00	1,020.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
20303-3700	SQYD	REMOVAL OF PAVEMENT MARKINGS			
	Virgin Islands Paving, Inc.		260	100.00	26,000.00
	Island Roads Corporation			50.00	13,000.00
	ENGINEER'S ESTIMATE			12.50	3,250.00
20420-0000	CUYD	EMBANKMENT CONSTRUCTION			
	Virgin Islands Paving, Inc.		400	48.00	19,200.00
	Island Roads Corporation			150.00	60,000.00
	ENGINEER'S ESTIMATE			75.00	30,000.00
25101-2000	CUYD	PLACED RIPRAP, CLASS 2			
	Virgin Islands Paving, Inc.		10	400.00	4,000.00
	Island Roads Corporation			300.00	3,000.00
	ENGINEER'S ESTIMATE			200.00	2,000.00
30101-4000	TON	AGGREGATE BASE GRADING C OR D			
	Virgin Islands Paving, Inc.		2,400	55.00	132,000.00
	Island Roads Corporation			75.00	180,000.00
	ENGINEER'S ESTIMATE			90.00	216,000.00
40201-0700	TON	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS A, GRADING C			
	Virgin Islands Paving, Inc.		8,400	210.00	1,764,000.00
	Island Roads Corporation			310.00	2,604,000.00
	ENGINEER'S ESTIMATE			235.00	1,974,000.00
40201-0800	TON	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS B, GRADING C			
	Virgin Islands Paving, Inc.		550	210.00	115,500.00
	Island Roads Corporation			310.00	170,500.00
	ENGINEER'S ESTIMATE			235.00	129,250.00
40201-1300	TON	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS A, GRADING E (TYPE VII SMOOTHNESS)			
	Virgin Islands Paving, Inc.		4,500	210.00	945,000.00
	Island Roads Corporation			310.00	1,395,000.00
	ENGINEER'S ESTIMATE			290.00	1,305,000.00
40201-1400	TON	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS B, GRADING E (TYPE VII SMOOTHNESS)			
	Virgin Islands Paving, Inc.		550	210.00	115,500.00
	Island Roads Corporation			310.00	170,500.00
	ENGINEER'S ESTIMATE			375.00	206,250.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
41202-0000	GAL	TACK COAT			
	Virgin Islands Paving, Inc.		335	15.00	5,025.00
	Island Roads Corporation			30.00	10,050.00
	ENGINEER'S ESTIMATE			24.00	8,040.00
41301-0600	SQYD	ASPHALT PAVEMENT MILLING, 2-INCH DEPTH			
	Virgin Islands Paving, Inc.		1,000	40.00	40,000.00
	Island Roads Corporation			35.00	35,000.00
	ENGINEER'S ESTIMATE			9.00	9,000.00
56601-2300	SQYD	SHOTCRETE, GRADING C, 4-INCH DEPTH			
	Virgin Islands Paving, Inc.		320	100.00	32,000.00
	Island Roads Corporation			150.00	48,000.00
	ENGINEER'S ESTIMATE			550.00	176,000.00
60201-0800	LNFT	24-INCH PIPE CULVERT			
	Virgin Islands Paving, Inc.		50	300.00	15,000.00
	Island Roads Corporation			500.00	25,000.00
	ENGINEER'S ESTIMATE			200.00	10,000.00
60408-0000	EACH	JUNCTION BOX			
	Virgin Islands Paving, Inc.		2	8,000.00	16,000.00
	Island Roads Corporation			10,000.00	20,000.00
	ENGINEER'S ESTIMATE			6,500.00	13,000.00
60801-0400	SQYD	PAVED WATERWAY, TYPE 4			
	Virgin Islands Paving, Inc.		160	140.00	22,400.00
	Island Roads Corporation			100.00	16,000.00
	ENGINEER'S ESTIMATE			200.00	32,000.00
60915-1000	EACH	WHEELSTOP, CONCRETE			
	Virgin Islands Paving, Inc.		15	65.00	975.00
	Island Roads Corporation			250.00	3,750.00
	ENGINEER'S ESTIMATE			110.00	1,650.00
61701-1200	LNFT	GUARDRAIL SYSTEM G4, TYPE 2, CLASS A STEEL POSTS			
	Virgin Islands Paving, Inc.		2,400	32.00	76,800.00
	Island Roads Corporation			90.00	216,000.00
	ENGINEER'S ESTIMATE			70.00	168,000.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
61702-0400	EACH	TERMINAL SECTION, TYPE G4-CRT			
	Virgin Islands Paving, Inc.		6	3,000.00	18,000.00
	Island Roads Corporation			600.00	3,600.00
	ENGINEER'S ESTIMATE			4,000.00	24,000.00
61702-0800	EACH	TERMINAL SECTION TYPE TANGENT			
	Virgin Islands Paving, Inc.		6	3,500.00	21,000.00
	Island Roads Corporation			6,000.00	36,000.00
	ENGINEER'S ESTIMATE			5,000.00	30,000.00
61707-1000	LNFT	STRUCTURE TRANSITION RAILING, G4 SYSTEM			
	Virgin Islands Paving, Inc.		90	150.00	13,500.00
	Island Roads Corporation			150.00	13,500.00
	ENGINEER'S ESTIMATE			750.00	67,500.00
62401-0100	SQYD	FURNISHING AND PLACING TOPSOIL, 2-INCH DEPTH			
	Virgin Islands Paving, Inc.		5,000	6.00	30,000.00
	Island Roads Corporation			5.00	25,000.00
	ENGINEER'S ESTIMATE			9.95	49,750.00
62502-0000	SQYD	TURF ESTABLISHMENT			
	Virgin Islands Paving, Inc.		5,000	4.00	20,000.00
	Island Roads Corporation			10.00	50,000.00
	ENGINEER'S ESTIMATE			4.00	20,000.00
62632-0000	LPSM	PLANTINGS			
	Virgin Islands Paving, Inc.		ALL	65,000.00	65,000.00
	Island Roads Corporation			70,000.00	70,000.00
	ENGINEER'S ESTIMATE			45,000.00	45,000.00
63301-0000	EACH	SIGN SYSTEM (PROJECT SIGN)			
	Virgin Islands Paving, Inc.		2	1,800.00	3,600.00
	Island Roads Corporation			2,000.00	4,000.00
	ENGINEER'S ESTIMATE			2,000.00	4,000.00
63301-1000	EACH	SIGN SYSTEM, GOVERNMENT FURNISHED SIGN (INTERPRETIVE SIGN)			
	Virgin Islands Paving, Inc.		1	800.00	800.00
	Island Roads Corporation			2,000.00	2,000.00
	ENGINEER'S ESTIMATE			2,000.00	2,000.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
63304-0900	SQFT	SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING			
	Virgin Islands Paving, Inc.		850	100.00	85,000.00
	Island Roads Corporation			50.00	42,500.00
	ENGINEER'S ESTIMATE			60.00	51,000.00
63401-1500	LNFT	PAVEMENT MARKINGS, TYPE H, SOLID			
	Virgin Islands Paving, Inc.		37,000	3.00	111,000.00
	Island Roads Corporation			4.00	148,000.00
	ENGINEER'S ESTIMATE			4.05	149,850.00
63401-1600	LNFT	PAVEMENT MARKINGS, TYPE H, BROKEN			
	Virgin Islands Paving, Inc.		1,900	3.00	5,700.00
	Island Roads Corporation			4.00	7,600.00
	ENGINEER'S ESTIMATE			6.50	12,350.00
63403-0800	SQFT	PAVEMENT MARKINGS, TYPE H			
	Virgin Islands Paving, Inc.		3,400	18.00	61,200.00
	Island Roads Corporation			20.00	68,000.00
	ENGINEER'S ESTIMATE			5.60	19,040.00
63405-3250	EACH	PAVEMENT MARKINGS, TYPE H, ACCESSIBILITY SYMBOL			
	Virgin Islands Paving, Inc.		2	400.00	800.00
	Island Roads Corporation			1,000.00	2,000.00
	ENGINEER'S ESTIMATE			1,300.00	2,600.00
63406-0200	EACH	RAISED PAVEMENT MARKER TYPE B			
	Virgin Islands Paving, Inc.		290	18.00	5,220.00
	Island Roads Corporation			50.00	14,500.00
	ENGINEER'S ESTIMATE			9.25	2,682.50
63502-1300	EACH	TEMPORARY TRAFFIC CONTROL, DRUM			
	Virgin Islands Paving, Inc.		50	150.00	7,500.00
	Island Roads Corporation			150.00	7,500.00
	ENGINEER'S ESTIMATE			120.00	6,000.00
63502-2000	EACH	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN			
	Virgin Islands Paving, Inc.		2	4,000.00	8,000.00
	Island Roads Corporation			30,000.00	60,000.00
	ENGINEER'S ESTIMATE			30,000.00	60,000.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
63504-1000	SQFT	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN			
	Virgin Islands Paving, Inc.		200	30.00	6,000.00
	Island Roads Corporation			50.00	10,000.00
	ENGINEER'S ESTIMATE			50.00	10,000.00
63506-0500	HOOR	TEMPORARY TRAFFIC CONTROL, FLAGGER			
	Virgin Islands Paving, Inc.		590	14.90	8,791.00
	Island Roads Corporation			14.90	8,791.00
	ENGINEER'S ESTIMATE			14.90	8,791.00
63601-1000	LPSM	SYSTEM INSTALLATION, TRAFFIC SIGNAL			
	Virgin Islands Paving, Inc.		ALL	258,692.00	258,692.00
	Island Roads Corporation			619,850.00	619,850.00
	ENGINEER'S ESTIMATE			415,000.00	415,000.00
63601-2000	LPSM	SYSTEM INSTALLATION, LIGHTING			
	Virgin Islands Paving, Inc.		ALL	336,720.00	336,720.00
	Island Roads Corporation			153,088.00	153,088.00
	ENGINEER'S ESTIMATE			350,000.00	350,000.00
63601-3000	LPSM	SYSTEM INSTALLATION, ELECTRICAL			
	Virgin Islands Paving, Inc.		ALL	138,998.00	138,998.00
	Island Roads Corporation			155,250.00	155,250.00
	ENGINEER'S ESTIMATE			6,000.00	6,000.00
63701-0000	EACH	FIELD OFFICE			
	Virgin Islands Paving, Inc.		1	30,000.00	30,000.00
	Island Roads Corporation			40,000.00	40,000.00
	ENGINEER'S ESTIMATE			29,000.00	29,000.00
64501-0000	LPSM	LOCATE UTILITIES			
	Virgin Islands Paving, Inc.		ALL	5,000.00	5,000.00
	Island Roads Corporation			5,000.00	5,000.00
	ENGINEER'S ESTIMATE			5,000.00	5,000.00
65101-1000	SQYD	DRAPED ROCKFALL PROTECTION, WIRE MESH			
	Virgin Islands Paving, Inc.		560	40.00	22,400.00
	Island Roads Corporation			200.00	112,000.00
	ENGINEER'S ESTIMATE			135.00	75,600.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

BID TOTAL CHECK PASS

Bidder	Bidder's Bid Amount	Computed Bid Amount	Error
Virgin Islands Paving, Inc.	5,534,121.00	5,534,121.00	
Island Roads Corporation	7,548,579.00	7,548,579.00	

The apparent low bidder is 18 % below the engineer's estimate.

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule A

Project No.: VI 66 (9) -CONTRACT 4

Project Name: CHRISTIANSTED BYPASS AND OTHER SIDE ROADS

BID ITEM CHECK PASS

Bidder	Item No.	Bidder's Extension	Computed Extension
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No extension errors in this Schedule.

TABULATION OF BIDS

Bid Schedule B

Project No.: VI 66(9)-CONTRACT 4

Project Name: SIGNAL SYSTEM AT MT WELCOME ROAD

State: VI
County: St Croix
USVI

Opened at: St. Croix
By: Peggy Schaad
Date: 08/25/2011

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

Signed: Peggy Schaad

Title: Contract Specialist Date: 08/25/2011

Contract Awarded to: _____ Date: _____

Contractor	Bid Amount	Responsive
Island Roads Corporation 6501 Red Hook Plaza Suite 201 St. Thomas, VI 00802-1306	312,000.00	
Virgin Islands Paving, Inc. P.O. Box 4720 Kingshill, VI 00851-4720	372,325.00	
Engineer's Estimate	300,000.00	

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule B

Project No.: VI 66 (9) -CONTRACT 4

Project Name: SIGNAL SYSTEM AT MT WELCOME ROAD

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
20302-0500	LNFT	REMOVAL OF CURB, CONCRETE			
	Island Roads Corporation		25	50.00	1,250.00
	Virgin Islands Paving, Inc.			15.00	375.00
	ENGINEER'S ESTIMATE			36.00	900.00
20303-3200	SQYD	REMOVAL OF SIDEWALK, CONCRETE			
	Island Roads Corporation		10	50.00	500.00
	Virgin Islands Paving, Inc.			25.00	250.00
	ENGINEER'S ESTIMATE			65.00	650.00
61501-0100	SQYD	SIDEWALK, CONCRETE			
	Island Roads Corporation		20	125.00	2,500.00
	Virgin Islands Paving, Inc.			75.00	1,500.00
	ENGINEER'S ESTIMATE			85.00	1,700.00
61504-1000	SQYD	ACCESSIBILITY RAMP, CONCRETE			
	Island Roads Corporation		10	150.00	1,500.00
	Virgin Islands Paving, Inc.			1,000.00	10,000.00
	ENGINEER'S ESTIMATE			600.00	6,000.00
63304-0900	SQFT	SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING			
	Island Roads Corporation		100	50.00	5,000.00
	Virgin Islands Paving, Inc.			150.00	15,000.00
	ENGINEER'S ESTIMATE			60.00	6,000.00
63601-1000	LPSM	SYSTEM INSTALLATION, TRAFFIC SIGNAL			
	Island Roads Corporation		ALL	265,650.00	265,650.00
	Virgin Islands Paving, Inc.			325,000.00	325,000.00
	ENGINEER'S ESTIMATE			235,000.00	235,000.00
63610-0000	LNFT	CONDUIT (CONCRETE ENVELOPE)			
	Island Roads Corporation		110	160.00	17,600.00
	Virgin Islands Paving, Inc.			20.00	2,200.00
	ENGINEER'S ESTIMATE			130.00	14,300.00
63610-1600	LNFT	CONDUIT, 2-INCH, PVC			
	Island Roads Corporation		400	20.00	8,000.00
	Virgin Islands Paving, Inc.			35.00	14,000.00
	ENGINEER'S ESTIMATE			55.00	22,000.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule B

Project No.: VI 66 (9) -CONTRACT 4

Project Name: SIGNAL SYSTEM AT MT WELCOME ROAD

Item No.	Item Unit	Item Description	Quantity	Unit Price	Amount
63621-1000	EACH	UTILITY BOX, PULLBOX			
	Island Roads Corporation		5	2,000.00	10,000.00
	Virgin Islands Paving, Inc.			800.00	4,000.00
	ENGINEER'S ESTIMATE			2,690.00	13,450.00

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule B

Project No.: VI 66 (9) -CONTRACT 4

Project Name: SIGNAL SYSTEM AT MT WELCOME ROAD

BID TOTAL CHECK PASS

Bidder	Bidder's Bid Amount	Computed Bid Amount	Error
Island Roads Corporation	312,000.00	312,000.00	
Virgin Islands Paving, Inc.	372,325.00	372,325.00	

The apparent low bidder is 4 % above the engineer's estimate.

TABULATION OF BIDS

Date: 08/25/11

Bid Schedule B

Project No.: VI 66(9)-CONTRACT 4

Project Name: SIGNAL SYSTEM AT MT WELCOME ROAD

BID ITEM CHECK PASS

Bidder	Item No.	Bidder's Extension	Computed Extension
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No extension errors in this Schedule.

Standard Form 1034 Revised October 1967 Department of the Treasury 1 TFM 4-2000 1034-121		PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL			VOUCHER NO.	
U.S. DEPARTMENT, BUREAU, OR ESTABLISHMENT AND LOCATION U.S. Department of Transportation Federal Highway Administration Eastern Federal Lands Highway Division 21400 Ridgetop Circle Sterling, VA 20166				DATE VOUCHER PREPARED		SCHEDULE NO.
				CONTRACT NUMBER AND DATE		PAID BY
				DTFH71-11-C-00021 9/19/11 REQUISITION NUMBER AND DATE		
PAYEE'S NAME AND ADDRESS Virgin Islands Paving, Inc. 13-GA Estate Bethlehem Kingshill, VI 00851				DATE INVOICE RECEIVED		
				DISCOUNT TERMS		
				PAYEE'S ACCOUNT NUMBER		
SHIPPED FROM				TO		WEIGHT
GOVERNMENT B/L NUMBER						
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)	QUANTITY	UNIT PRICE		AMOUNT (1)
				COST	PER	
		Final Estimate No. 12 - FINAL PAYMENT. This is final settlement of construction of project VI 66 (9) C4. Final settlement is specifically conditioned upon the execution of the Contractor's Release attached hereto and incorporated herein. By: <i>[Signature]</i> Title: <i>President</i> Date: <i>11-12-13</i>				
TOTAL						\$0.00
(Use continuation sheet(s) if necessary) (Payee must NOT use the space below)						
PAYMENT: ☐ PROVISIONAL ☐ COMPLETE ☐ PARTIAL ☒ FINAL ☐ PROGRESS ☐ ADVANCE		APPROVED FOR BY ² Laurin R. Lineman TITLE Director, Project Delivery	EXCHANGE RATE = \$ 0.00 = \$1.00	DIFFERENCES Amount verified, correct for payment (Signature or Initials) <i>[Signature]</i>		
Pursuant to authority vested in me, I certify that this voucher is correct and proper for payment. <i>12-3-13.</i> (Date) <i>[Signature]</i> (Authorized Certifying Officer) Financial Manager (Title)						
ACCOUNTING CLASSIFICATION						
PROJ: 151578BYPAS04 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 of the company may be."						FOR TITLE

NSN 7540-00-900-2234

PRIVACY ACT STATEMENT

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

DEC 3 3 2013
 FINANCE DEPT

46 T-14-006

**DEPARTMENT OF TRANSPORTATION
CONTRACTOR'S RELEASE**

CONTRACTOR (Name and Address)

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

**ENTER SUM OF TOTAL OF AMOUNTS PAID
AND PAYABLE**

\$6,402,150.50

CONTRACT NO. DTFH71-11-C-00021

Pursuant to the terms of the above numbered contract and in consideration of the sum stated above, which has been paid or is to be paid to the Contractor, or its 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: (or state "None")

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 it will comply with all provisions of the said contract, provisions of the said contract, including without limitation those provisions relating to notification to the Contracting Officer and relating to the defense or prosecution of litigation.

IN WITNESSES WHEREOF, this release has been executed this 12 day of November, 20 13.

WITNESSES



BY

TITLE

Virgin Islands Paving Inc
(Contractor)


President

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

I, William J. Schierloh, am the _____ secretary of the corporation named as Contractor in the foregoing release; that Robert J. Schierloh who signed said release on behalf of the Contractor was then President of said corporation; 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.


Signature



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

OFFICE OF
THE COMMISSIONER

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

August 1, 2013

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

RE: Final Acceptance
Christiansted By-Pass Contract 4, Project No. VI- 66(9)

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 contractor for the final phase of this project on March 4, 2013, 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 **January 24, 2013**.

As of this date, the contractor is therefore relieved of all maintenance obligations save for the items of work such as the electrical installations which are under warranty.

Sincerely,

Darryl A. Smalls P.E.
Commissioner

DAS/WDB/jpd *WB*

cc: Wystan Benjamin, Federal Highway Program Manager
John Paul David, Construction Program Manager
Jameel Siddiqi, EFLHD



U.S. Department
of Transportation
Federal Highway
Administration

Eastern Federal Lands
Highway Division

21400 Ridgetop Circle
Sterling, VA 20166-6511

OCT 22 2013

In Reply Refer To: HFCO-15

FEDERAL EXPRESS

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

Subject: Project No. VI 66(9) C4: Christiansted Bypass
Paving of Christiansted Bypass and Side Roads and Other Work
Project Closeout
Contract Number DTFH71-11-C-00021

Dear Mr. Schierloh:

We are pleased to advise you that all work performed on the above referenced project has been satisfactorily completed in substantial conformity with the plans and specifications. Final Acceptance was effective on January 24, 2013, and, as of that date, you were relieved of further maintenance obligations. Enclosed please find the following documents for the subject project:

- The final estimate (Estimate No. 12)
- Two copies of Form 4220.4, Contractor 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 Forms 4220.4 and 1034, which are based on the final estimate. Upon receipt of the executed documents, we will process the final payment. If you have any questions, please contact Mr. Jameel A. Siddiqi, Construction Operations Engineer, at 703-404-6259.

Sincerely,

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

Enclosures



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

CONSTRUCTION PROJECT MATERIAL CERTIFICATION

State VIRGIN ISLANDS Project No. VI 66(9)-C4
Project name CHRISTIANSTED BYPASS CONT' Contract No. DTFH71-11-C-00021



RALPH DEHART

Digitally signed by RALPH DEHART
DN: cn=RALPH DEHART, o=U.S. Department of Transportation, ou=DTFH71-11-C-00021, email=RALPH.DEHART@DOT.GOV
Date: 2013.10.07 10:44:37 -0400

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 MIGUEL A RODRIGUEZ DEL VALLE Digitally signed by MIGUEL A RODRIGUEZ DEL VALLE
DN: cn=MIGUEL A RODRIGUEZ DEL VALLE, o=U.S. Department of Transportation, ou=DTFH71-11-C-00021, email=MIGUEL.A.RODRIGUEZ@DOT.GOV
Date: 2013.10.07 11:22:37 -0400 Date 10/07/2013

Construction Operations Engineer JAMEEL A SIDDIQI Digitally signed by JAMEEL A SIDDIQI
DN: cn=JAMEEL A SIDDIQI, o=U.S. Department of Transportation, ou=DTFH71-11-C-00021, email=JAMEEL.A.SIDDIQI@DOT.GOV
Date: 2013.10.07 11:02:42 -0400 Date 10/07/2013

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 P DALLAIRE Digitally signed by MICHAEL P DALLAIRE
DN: cn=MICHAEL P DALLAIRE, o=U.S. Department of Transportation, ou=DTFH71-11-C-00021, email=MICHAEL.P.DALLAIRE@DOT.GOV
Date: 2013.10.10 14:22:00 -0400 Date 10/10/13

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 Digitally signed by Thomas J Scott
DN: cn=Thomas J Scott, o=U.S. Department of Transportation, ou=DTFH71-11-C-00021, email=THOMAS.J.SCOTT@DOT.GOV
Date: 2013.10.10 14:23:08 -0400 Date _____

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

batch #
cntrl #

VI 66(9)-C4 - CHRISTIANSTED BYPASS CONTRACT #4

Paving of Christiansted Bypass and adjacent roads, installation of street lighting, traffic signal system, signs, pavement markings, and miscellaneous work.

TO: Virgin Islands Paving, Inc.
P.O. Box 4720
Kingshill, VI 00851-4720

CONSTRUCTION SUMMARY

ESTIMATE # 12, final

TOTAL AMOUNT EARNED TO DATE	\$6,402,150.50
ADJUSTMENTS for revisions of as-built plans released estimate 11	\$0.00
TOTAL PAYMENTS APPROVED TO DATE	\$6,402,150.50
TOTAL PAYMENTS PREVIOUSLY PAID	\$6,402,150.50
AMOUNT TO BE PAID THIS ESTIMATE	\$0.00

CONTRACT NUMBER: DTFH71-11-C-00021
AWARD DATE: September 19, 2011

STATE U.S. Virgin Islands
COUNTIES St. Croix
FOREST OR PARK n/a

LENGTH 1.65 miles

51

This estimate submitted 10/02/13 by
Miguel Rodriguez, Project Engineer

*DTFH71-11-C-00021
ESTIMATE # 12, final

ACCOUNT NUMBER

Proj 151578BYPAS04 Task 540.00.TT10.78 Org 1578000000

EXPEND	LIQUIDATE	line number
\$0.00	\$0.00	
\$0.00	\$0.00	
TOTAL		

Jamuel S. Siddiqi 11/27/13
date: 11/27/13
Concur in estimate
Jamuel Siddiqi, Construction Operations Engineer

Thomas J. Scott 12/3/13
date: 12/3/13
Approve for payment
Thomas J. Scott, Construction Engineer

Teresa Daniel 12/3/13
date: 12/3/13
Certify funds available
Teresa Daniel, Financial Manager

VI 66(9)-C4 - CHRISTIANSTED BYPASS CONTRACT #4 ESTIMATE # 12, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED		PROBABLES					
		QUANTITY	CM	AMENDED	UNIT PRICE	AMOUNT	CURRENT	PREVIOUS	TO DATE	AMOUNT	QUANTITY	AMOUNT
Schedule A	15101-0000	100.000		100.000	LPSM	\$570,000.00	\$570,000.00	0.000000	100.000	100.000	\$570,000.00	0
	15201-0000	100.000		100.000	LPSM	\$80,000.00	\$80,000.00	0.000	100.000	100.000	\$80,000.00	0
	15401-0000	100.000		100.000	LPSM	\$120,000.00	\$120,000.00	0.000	100.000	100.000	\$120,000.00	0
	15701-0000	100.000		100.000	LPSM	\$45,000.00	\$45,000.00	0.000	100.000	100.000	\$45,000.00	0
15705-0100	SOIL EROSION CONTROL, SILT FENCE (WIRE BACKED); quantity per CM #002, 12/11/12	2100.000	#####	894.000	LNFT	\$22,350.00	\$22,350.00	0.000	894.000	894.000	\$22,350.00	0
15706-1000	SOIL EROSION CONTROL, INLET PROTECTION; quantity per CM #002, 12/11/12	28.000	-11.000	17.000	EACH	\$34,000.00	\$34,000.00	0.000	17.000	17.000	\$34,000.00	0
15706-1600	SOIL EROSION CONTROL, STABILIZED CONSTRUCTION ENTRANCE; quantity per CM #002, 12/11/12	3.000	-1.000	2.000	EACH	\$6,000.00	\$12,000.00	0.000	2.000	2.000	\$12,000.00	0
20301-2400	REMOVAL OF SIGN	6.000		6.000	EACH	\$300.00	\$300.00	0.000	6.000	6.000	\$300.00	0
20303-3700	REMOVAL OF PAVEMENT MARKINGS	260.000		260.000	SQYD	\$100.00	\$26,000.00	0.000	260.000	260.000	\$26,000.00	0
20420-0000	EMBANKMENT CONSTRUCTION; quantity per CM #002, 12/11/12	400.000	-400.000	0.000	CUYD	\$48.00	\$0.00	0.000	0.000	0.000	\$0.00	0
25101-2000	PLACED RIPRAP, CLASS 2; quantity per CM #003, 04/25/13	10.000	-10.000	0.000	CUYD	\$400.00	\$0.00	0.000	0.000	0.000	\$0.00	0
30101-4000	AGGREGATE BASE GRADING C OR D; quantity per CM #002, 12/11/12	2400.000	#####	959.670	TON	\$55.00	\$52,781.85	0.000	959.670	959.670	\$52,781.85	0
40201-0700	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS A, GRADING C; quantity per CM #003, 04/24/13	8400.000	-250.110	8149.890	TON	\$210.00	\$1,711,476.90	0.000	8149.890	8149.890	\$1,711,476.90	0
40201-0800	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS B, GRADING C; quantity per CM #003, 04/24/13	550.000	-19.910	530.090	TON	\$210.00	\$111,318.90	0.000	530.090	530.090	\$111,318.90	0
40201-1300	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS A, GRADING E (TYPE VII SMOOTHNESS)	4500.000	-31.740	4468.260	TON	\$210.00	\$938,334.60	0.000	4468.260	4468.260	\$938,334.60	0
40201-1400	HOT ASPHALT CONCRETE PAVEMENT, MARSHALL TEST, CLASS B, GRADING E (TYPE VII SMOOTHNESS); quantity per CM #003, 04/24/13	550.000	-5.620	544.380	TON	\$210.00	\$114,319.80	0.000	544.380	544.380	\$114,319.80	0

VI 66(9)-C4 - CHRISTIANSTED BYPASS CONTRACT #4 ESTIMATE # 12, final

ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES	
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY
41202-0000	TACK COAT; quantity increase 1865 per CM #002, 12/11/12; quantity increase 179 per CM #003, 04/24/13	335.000	2044.000	2379.000 GAL	\$15.00	\$35,685.00	0.000	2379.000	\$35,685.00
41301-0600	ASPHALT PAVEMENT MILLING, 2-INCH DEPTH; quantity per CM #002, 12/11/12	1000.000	#####	0.000 SQYD	\$40.00	\$0.00	0.000	0.000	\$0.00
56601-2300	SHOTCRETE, GRADING C, 4-INCH DEPTH; quantity per CM #002, 12/11/12	320.000	43.640	363.640 SQYD	\$100.00	\$36,364.00	0.000	363.640	\$36,364.00
60201-0800	24-INCH PIPE CULVERT; quantity per CM #002, 12/11/12	50.000	18.000	68.000 LNFT	\$300.00	\$20,400.00	0.000	68.000	\$20,400.00
60408-0000	JUNCTION BOX	2.000		2.000 EACH	\$8,000.00	\$16,000.00	0.000	2.000	\$16,000.00
60801-0400	PAVED WATERWAY, TYPE 4	160.000		160.000 SQYD	\$140.00	\$22,400.00	0.000	160.000	\$22,400.00
60915-1000	WHEELSTOP, CONCRETE	15.000		15.000 EACH	\$65.00	\$975.00	0.000	15.000	\$975.00
61701-1200	GUARDRAIL SYSTEM G4, TYPE 2, CLASS A STEEL POSTS	2400.000		2400.000 LNFT	\$32.00	\$76,800.00	0.000	2400.000	\$76,800.00
61702-0400	TERMINAL SECTION, TYPE G4-CRT; quantity per CM #003, 04/24/13	6.000	1.000	7.000 EACH	\$3,000.00	\$21,000.00	0.000	7.000	\$21,000.00
61702-0800	TERMINAL SECTION TYPE TANGENT	6.000		6.000 EACH	\$3,500.00	\$21,000.00	0.000	6.000	\$21,000.00
61707-1000	STRUCTURE TRANSITION RAILING, G4 SYSTEM; quantity per CM #003, 04/24/13	90.000	10.000	100.000 LNFT	\$150.00	\$15,000.00	0.000	100.000	\$15,000.00
62401-0100	FURNISHING AND PLACING TOPSOIL, 2-INCH DEPTH	5000.000		5000.000 SQYD	\$6.00	\$30,000.00	0.000	5000.000	\$30,000.00
62502-0000	TURF ESTABLISHMENT	5000.000		5000.000 SQYD	\$4.00	\$20,000.00	0.000	5000.000	\$20,000.00
62632-0000	PLANTINGS	100.000		100.000 LPSM	\$65,000.00	\$65,000.00	0.000	100.000	\$65,000.00
63301-0000	SIGN SYSTEM (PROJECT SIGN)	2.000		2.000 EACH	\$1,800.00	\$3,600.00	0.000	2.000	\$3,600.00
63301-1000	SIGN SYSTEM, GOVERNMENT FURNISHED SIGN	1.000		1.000 EACH	\$800.00	\$800.00	0.000	1.000	\$800.00
63304-0900	(INTERPRETIVE SIGN) SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING; quantity per CM #003, 04/24/13	850.000	-49.400	800.600 SQFT	\$100.00	\$80,060.00	0.000	800.600	\$80,060.00
63401-1500	PAVEMENT MARKINGS, TYPE H, SOLID; quantity per CM #003, 04/24/13	37000.000	-115.000	36885.000 LNFT	\$3.00	\$110,655.00	0.000	36885.000	\$110,655.00
63401-1600	PAVEMENT MARKINGS, TYPE H, BROKEN; quantity per CM #003, 04/24/13	1900.000	-106.000	1794.000 LNFT	\$3.00	\$5,382.00	0.000	1794.000	\$5,382.00
63403-0800	PAVEMENT MARKINGS, TYPE H; quantity per CM #003, 04/24/13	3400.000	-16.000	3384.000 SQFT	\$18.00	\$60,912.00	0.000	3384.000	\$60,912.00

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ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES		OVERRUN
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	QUANTITY	AMOUNT	
63405-3250	PAVEMENT MARKINGS, TYPE H, ACCESSIBILITY SYMBOL	2.000		2.000 EACH \$400.00	\$800.00	0.000	2.000	2.000	\$800.00	0
63406-0200	RAISED PAVEMENT MARKER TYPE B	290.000		290.000 EACH \$18.00	\$5,220.00	0.000	290.000	290.000	\$5,220.00	0
63502-1300	TEMPORARY TRAFFIC CONTROL, DRUM	50.000		50.000 EACH \$150.00	\$7,500.00	0.000	50.000	50.000	\$7,500.00	0
63502-2000	TEMPORARY TRAFFIC CONTROL, PORTABLE CHANGEABLE MESSAGE SIGN	2.000		2.000 EACH \$4,000.00	\$8,000.00	0.000	2.000	2.000	\$8,000.00	0
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN	200.000		200.000 SQFT \$30.00	\$6,000.00	0.000	200.000	200.000	\$6,000.00	0
63506-0500	TEMPORARY TRAFFIC CONTROL, FLAGGER; quantity per CM #003, 04/24/13	590.000	-96.000	494.000 HOUR \$14.90	\$7,360.60	0.000	494.000	494.000	\$7,360.60	0
63601-1000	SYSTEM INSTALLATION, TRAFFIC SIGNAL	100.000		100.000 LPSM \$258,692.00	\$258,692.00	0.000	100.000	100.000	\$258,692.00	0
63601-2000	SYSTEM INSTALLATION, LIGHTING	100.000		100.000 LPSM \$336,720.00	\$336,720.00	0.000	100.000	100.000	\$336,720.00	0
63601-3000	SYSTEM INSTALLATION, ELECTRICAL	100.000		100.000 LPSM \$138,998.00	\$138,998.00	0.000	100.000	100.000	\$138,998.00	0
63701-0000	FIELD OFFICE	1.000		1.000 EACH \$30,000.00	\$30,000.00	0.000	1.000	1.000	\$30,000.00	0
64501-0000	LOCATE UTILITIES	100.000		100.000 LPSM \$5,000.00	\$5,000.00	0.000	100.000	100.000	\$5,000.00	0
65101-1000	DRAPED ROCKFALL PROTECTION, WIRE MESH; quantity per CM #002, 12/11/12	560.000	-140.000	420.000 SQYD \$40.00	\$16,800.00	0.000	420.000	420.000	\$16,800.00	0
66601-0000	CM #001, 08/28/12; CONTRACT MODIFICATION WORK (INSTALLATION OF Y-TAP FUSE)	100.000		100.000 LPSM \$8,146.25	\$8,146.25	0.000	100.000	100.000	\$8,146.25	0
66601-0000	CM #001, 08/28/12; CONTRACT MODIFICATION WORK (INSTALLATION OF LED LIGHTS)	100.000		100.000 LPSM \$34,437.50	\$34,437.50	0.000	100.000	100.000	\$34,437.50	0
66601-0000	CM #001, 08/28/12; CONTRACT MODIFICATION WORK (ANTI-STRIP AGENT FOR ASPHALT MIXTURES)	100.000		100.000 LPSM \$48,416.49	\$48,416.49	0.000	100.000	100.000	\$48,416.49	0
66606-0000	CM #001, 08/28/12; CONTRACT MODIFICATION WORK (FLO-FILL PLACEMENT)	10.000		10.000 CUYD \$400.00	\$4,000.00	0.000	10.000	10.000	\$4,000.00	0
66601-0000	CM #002, 12/11/12; CONTRACT MODIFICATION WORK (REPAIR OF 72 INCH RCP AT STATION 73-50)	100.000		100.000 LPSM \$154,692.00	\$154,692.00	0.000	100.000	100.000	\$154,692.00	0

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ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES	
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT PREVIOUS TO DATE	AMOUNT	QUANTITY	AMOUNT
66601-0000	CM #002, 12/11/12; CONTRACT MODIFICATION WORK (INSTALLATION OF CHAIN LINK FENCE)	100.000		\$6,478.07	\$6,478.07	0.000	100.000	100.000	\$6,478.07
		100.000		\$6,478.07	\$6,478.07	0.000	100.000	100.000	\$6,478.07
66601-0000	CM #002, 12/11/12; CONTRACT MODIFICATION WORK (INSTALLATION OF BILLBOARD SIGN AT CONTENTMENT ROAD HISTORIC AREA)	100.000		\$6,546.37	\$6,546.37	0.000	100.000	100.000	\$6,546.37
		100.000		\$6,546.37	\$6,546.37	0.000	100.000	100.000	\$6,546.37
66601-0000	CM #002, 12/11/12; CONTRACT MODIFICATION WORK (PULL BOX ADJUSTMENTS)	100.000		\$3,836.27	\$3,836.27	0.000	100.000	100.000	\$3,836.27
		100.000		\$3,836.27	\$3,836.27	0.000	100.000	100.000	\$3,836.27
66601-0000	CM #002, 12/11/12; CONTRACT MODIFICATION WORK (DRAINAGE INLET ADJUSTMENT AND BACKFILL AT STATION 58- 75)	100.000		\$8,166.15	\$8,166.15	0.000	100.000	100.000	\$8,166.15
		100.000		\$8,166.15	\$8,166.15	0.000	100.000	100.000	\$8,166.15
55 66601-0000	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (WIDENING OF THE EAST END ROAD AND HOSPITAL STREET INTERSECTION COMPLETE IN PLACE)	100.000		\$213,350.00	\$213,350.00	0.000	100.000	100.000	\$213,350.00
		100.000		\$213,350.00	\$213,350.00	0.000	100.000	100.000	\$213,350.00
66601-0000	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (CLEARING ROADWAY ENTRANCES AT SIDE ROADS)	100.000		\$13,044.75	\$13,044.75	0.000	100.000	100.000	\$13,044.75
		100.000		\$13,044.75	\$13,044.75	0.000	100.000	100.000	\$13,044.75
66601-0000	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (LOCATE AND ADJUST MANHOLES AT EAST END INTERSECTION)	100.000		\$4,000.00	\$4,000.00	0.000	100.000	100.000	\$4,000.00
		100.000		\$4,000.00	\$4,000.00	0.000	100.000	100.000	\$4,000.00
66601-0000	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (RELOCATE THREE UTILITY POLES AT THE EAST END INTRSECTION)	100.000		\$24,000.00	\$24,000.00	0.000	100.000	100.000	\$24,000.00
		100.000		\$24,000.00	\$24,000.00	0.000	100.000	100.000	\$24,000.00
66601-0000	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (DRAINAGE REPAIR AT EAST END ROAD)	100.000		\$10,423.00	\$10,423.00	0.000	100.000	100.000	\$10,423.00
		100.000		\$10,423.00	\$10,423.00	0.000	100.000	100.000	\$10,423.00

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ITEM NO.	DESCR.	CONTRACTED			ESTIMATED			PROBABLES		OVER RUN
		QUANTITY	CM	AMENDED UNIT PRICE	AMOUNT	CURRENT	PREVIOUS TO DATE	AMOUNT	QUANTITY	
66601-0000	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (NEW PEDESTRIAN PUSH BUTTON ACCESS AT CONTENTMENT ROAD INTERSECTION)	100.000		100.000 LPSM	\$10,202.00	0.000	100.000	\$10,202.00	100.000	0
	CM #003, 04/24/13; CONTRACT MODIFICATION WORK (ADDITIONAL PLANTING AT EAST END INTERSECTION)	100.000		100.000 LPSM	\$6,031.00	0.000	100.000	\$6,031.00	100.000	0
Schedule B										
20302-0500	REMOVAL OF CURB, CONCRETE	25.000		25.000 LNFT	\$375.00	0.000	25.000	\$375.00	25.000	0
20303-3200	REMOVAL OF SIDEWALK, CONCRETE	10.000		10.000 SQYD	\$250.00	0.000	10.000	\$250.00	10.000	0
61501-0100	SIDEWALK, CONCRETE	20.000		20.000 SQYD	\$1,500.00	0.000	20.000	\$1,500.00	20.000	0
61504-1000	ACCESSIBILITY RAMP, CONCRETE	10.000		10.000 SQYD	\$10,000.00	0.000	10.000	\$10,000.00	10.000	0
5 63500-0900	SIGNS, ALUMINUM PANELS, TYPE 3 SHEETING; quantity per CM #003, 04/24/13	100.000	-13.000	87.000 SQFT	\$13,050.00	0.000	87.000	\$13,050.00	87.000	0
63601-1000	SYSTEM INSTALLATION, TRAFFIC SIGNAL	100.000		100.000 LPSM	\$325,000.00	0.000	100.000	\$325,000.00	100.000	0
63610-0000	CONDUIT (CONCRETE ENVELOPE)	110.000		110.000 LNFT	\$2,200.00	0.000	110.000	\$2,200.00	110.000	0
63610-1600	CONDUIT, 2-INCH, PVC	400.000		400.000 LNFT	\$14,000.00	0.000	400.000	\$14,000.00	400.000	0
63621-1000	UTILITY BOX, PULLBOX	5.000		5.000 EACH	\$4,000.00	0.000	5.000	\$4,000.00	5.000	0
66601-0000	CM #002, 12/11/12; CONTRACT MODIFICATION WORK (INSTALLATION OF VIDEO DETECTION SYSTEM FOR TRAFFIC SIGNALS)	100.000		100.000 LPSM	\$175,000.00	0.000	100.000	\$175,000.00	100.000	0

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CONSTRUCTION		BID	TO DATE	PROBABLE
CONTRACT				
		\$5,906,446.00	\$6,402,150.50	\$6,402,150.50
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				
		\$5,906,446.00	\$6,402,150.50	\$6,402,150.50
FUNDS AUTHORIZED				
Proj Acct Proj 151578BYPAS04 Task 540.00.TT10.78 Org 1578000000				
		\$5,906,446.00	\$6,402,150.50	\$6,402,150.50
TOTAL				
		\$5,906,446.00	\$6,402,150.50	\$6,402,150.50
BALANCE OR DEFICIT				
		\$0.00	\$0.00	\$0.00
CONSTRUCTION ENGINEERING				
TOTAL-ALL WORK CODES			PROBABLE	PROBABLE CE/CN
		\$0.00	\$249,146.11	\$712,000.00
				11.12%
C E BREAKDOWN				
FUNCTION C		FUNCTION I	FUNCTION M	FUNCTION T
TOTAL		TOTAL	TOTAL	TOTAL
*TO DATE AUTHORIZED				
EXPENDED		\$249,146.11		\$0.00
PROBABLE		\$690,000.00	\$22,000.00	\$249,146.11
EXPENDED PER DELPHI REPORTS AS OF 11/26/13 & PP 20				
*CE AUTH. PER DELPHI			PE =	\$175,686.12
DELPHI CE ACCOUNT NUMBERS Proj 151578BYPAS04 Task 520.CE.TT10.78 Org 1578000000				



Completed construction - Road Line 7



Completed construction - Contentment Road Intersection, Station 41+50



Completed construction - Station 43+00



Completed construction - Station 59+00



Completed construction - King Cross Street Intersection, Station 76+00



Completed construction - new Outlook Parking Area, Station 86+00



Completed construction, Station 97+50



Completed construction - East End Intersection, Station 99+80



Completed construction - view of Hospital Street from East End Intersection