



FEB 10 2020

Change Record

Contract Number 009168	Contract Title George Washington Bridge Painting (Stage 2) & Paving	Federal Aid Number NHPP-0099(137)
Change Order Number 21	Change Description Bid Item No. 8 Overrun	Date Jan 27, 2020
Region Northwest Region	Project Engineer Shawn Neil Wendt, P.E. <i>SNW</i>	Phone Number 425-225-8700
Prime Contractor / Design-Builder Liberty Maintenance Inc.		WSDOT Sno-King

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JAN 29 2020

- Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications or the
- Change proposed by Contractor / Design-

Evolution & Description Of Change

Attached for review and further processing is **Headquarters** executed Change Order No. 21. This change order revises the unit pricing of Bid Item No. 8, "Cleaning, Sealing and Caulking Pack Rust", for quantity in excess of 125 percent of the original Proposal quantity in accordance with Standard Specifications Section 1-04.6.

This Contract provides for the improvement of the SR 99 George Washington Bridge by cleaning and painting metal surfaces, removing and replacing bridge deck HMA and membrane, installing pavement markings, performing deck repair, repairing a finger joint, cleaning expansion joints and other Work.

The Contractor overran existing Bid Item No. 8, "Cleaning, Sealing and Caulking Pack Rust", by 2,044 percent, resulting in \$1,635,525.00 paid to an item bid at a Proposal cost of \$80,000.00. WSDOT proposed renegotiating lower unit pricing for pack rust quantities in excess 125 percent of the original Proposal quantity in accordance with Standard Specifications Section 1-04.6. WSDOT and the Contractor agreed to revise the unit pricing to \$73.50 per linear foot of pack rust.

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SnoKing Area

- Distribution By:
- Project Office
  - Copy of Change Records & Change Order w/Backup - Project Engineer
  - Copy of ONLY Change Order - Prime Contractor / Design-Builder
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  - Original of Change Records & Change Order w/Backup - Region Construction Office
  - Region
  - Original of Change Records & Change Order w/Backup - State Construction Office

Contract Number 009168	Contract Title George Washington Bridge Painting (Stage 2) & Paving	Change Order Number 21
<p><b>Basis of Cost &amp; Justification:</b></p> <p>New item "CO#21 Cleaning, Sealing and Caulking Pack Rust" will be paid at the agreed unit price of \$73.50 per linear foot. This shall be full pay for all labor, equipment, materials and associated costs necessary to perform the Work.</p> <p>This change order increases the Contract by \$1,128,610.88. Backing out existing Bid Item No. 8 to 125 percent of its planned quantity and paying the remaining quantity at the reduced price of \$73.50 per linear foot will result in savings to WSDOT of \$406,914.12. This pricing is appropriate because unit pricing to perform the Work was estimated by force account in accordance with Standard Specifications Section 1-09.6. The estimated unit pricing was within 10 percent of the negotiated unit price. Labor costs were verified with the Contractor's certified payrolls, equipment costs were verified using the Rental Rate Blue Book and material costs were obtained from online vendor quotes.</p>		
<p><b>Contract Time:</b></p> <p>It is mutually agreed that and extension of time will not be granted as a result of this change order and a written time impact analysis is not required.</p>		
<p><b>Prior Approvals:</b></p> <p>Edward W. Kane, Project Engineer, gave his approval to proceed on September 27, 2019.  Steve Strand, NWR Engineering Manager, gave his approval on September 27, 2019.  Jim Cuthbertson, Assistant State Construction Engineer, gave his approval on October 1, 2019.</p>		
<p><b>List Attachments:</b></p> <p>Checklist  Estimate  Approvals</p>		

Distribution By: Project Office  
Copy of Change Records & Change Order w/Backup - Project Engineer  
Copy of ONLY Change Order - Prime Contractor / Design-Builder  
Electronic Copy of Change Records & Change Order w/Backup - State Construction Office  
Original of Change Records & Change Order w/Backup - Region Construction Office  
Region  
Original of Change Records & Change Order w/Backup - State Construction Office

**Change Order Checklist**

<b>Cont. No. :</b> <u>009168</u>	<b>Cont. Title:</b> <u>SR 99, George Washington Bridge Painting &amp; Paving</u>
<b>C.O. No.:</b> <u>21</u>	<b>C.O. Title:</b> <u>Bid Item No. 8 Overrun</u>

I. Executed by the State Construction Office			
1. Cost or credit equal to or exceeding \$500,000. *1, *3	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, State Construction Office Approval Required.
2. Change in the contract documents beyond the scope, intent, or termini of the original contract. *2	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
3. Any proposed revision or deletion of work that affects the Condition of Award requirements. (Must be coded "CO" in CCIS, Includes changes to goal or commitment)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
4. Change in contract time greater than 30 working days, or a change in contract time not related to any change order. *1	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
II. Executed by the Region (Per Delegation)			
5. Determination of impacts and/or overhead.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes, State Construction Office Approval Required.
6. Change to Contract Provisions or Standard Plans.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
7. Material or product substitution. (Excludes materials associated with Std. Specification Sections 6-07, 8-01, 8-02, 8-12, 8-18, & 8-20)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
8. Structural design change in the roadway section. (Requires concurrence from designer)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
9. Determination of changed condition. (Section 1-04.7 of the Standard Specifications)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
10. Settlement of a claim. (Section 1-09.11(2) of the Standard Specifications)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
11. Repair of Damage regarding "acts of God" or "acts of the public enemy or of government authorities". (Section 1-07.13 of the Standard Specifications)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
12. Structural change to structures.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

**Approvals obtained:**

Project Engineer: <u>Edward W. Kane, P.E.</u>	Date: <u>9/27/2019</u>
Region: <u>Steve Strand, P.E.</u>	Date: <u>9/27/2019</u>
State Construction Office: <u>Jim Cuthbertson, P.E.</u>	Date: <u>10/1/2019</u>
Other (Local Agency, FHWA, Surety, etc.): _____	Date: _____

**To be completed by the Project Engineer:**

CO reason(s) (See "2008 Codes and Definitions" on State Construction Office web page): AI-16, PI, MO

Change Order Prepared by: Brendan Byron Date: 1/16/2020

Is this project under full FHWA stewardship oversight?\*1  Yes  No

**To be completed by the Region:**

Is the change eligible for Federal participation where applicable?  Yes  No

Change Order Reviewed by: Candy Masten Date: 01/29/2020

- \*1. Change (Cost or Credit) greater than \$200,000 or greater than 30 days on Full Federal Stewardship Oversight requires FHWA approval [See Construction Manual Ch. 1.2.4C(3), Ch 1-3.4]
- \*2. Per RCW 47.28.050, any change beyond \$7,500 that is beyond the original scope shall go through the competitive bidding process.
- \*3. Engineering error changes over \$500,000 require reporting (See reporting instructions and template on State Construction Office web page)

This form represents the minimum information required by the State Construction Office. If you wish to supplement this information, you may do so on a separate sheet of paper.

CAPS, CCIS - AP



Cont. No. : 009168 Cont. Title: SR 99, George Washington Bridge Painting & Paving

C.O. No.: 21 C.O. Title: Bid Item No. 8 Overrun

<b>III. Executed by the Region Engineering Manager</b>			
13. Cost or credit equaling or greater than \$100,000 but less than \$500,000.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
14. Change in contract time between 10 and 30 working days, or a change in contract time not related to any change order.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

Has design documentation been updated?  Yes  No

Checklist prepared by (Project Field Office): Brendan Byron Date: 1/16/2020

Change Order reviewed by (Project Field Office): Joshua Hopkins Date: 1/27/2020

<b>Clearances:</b>		
Design/Technical Lead	Name: _____	Date: _____
Maintenance	Name: _____	Date: _____
Agreements?	Name: _____	Date: _____
Local Agency Coordination?	Name: _____	Date: _____
Other? _____	Name: _____	Date: _____

# WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CHANGE ORDER


DATE: 01/16/20  
Page 1 of 3

CONTRACT NO: 009168 FEDERAL AID NO: NHPP-0099 (137)  
 CONTRACT TITLE: SR 99, GEORGE WASHINGTON BRIDGE PAINTING (STAGE 2)  
 CHANGE ORDER NO: 21 BID ITEM NO. 8 OVERRUN

PRIME CONTRACTOR: SW0232887 LIBERTY MAINTENANCE, INC.  
777 N MERIDIAN RD  
YOUNGSTOWN OH 44509-1006

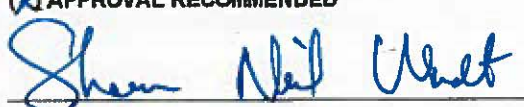
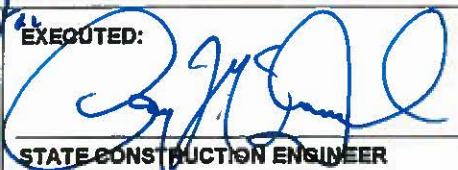
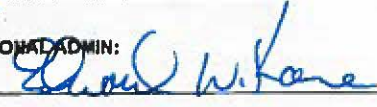
Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications

Change proposed by Contractor

ENDORSED BY:  <hr/> CONTRACTOR 1/22/2020 <hr/> DATE	SURETY CONSENT:  <hr/> ATTORNEY IN FACT  <hr/> DATE
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ORIGINAL CONTRACT AMOUNT: 30,851,133.05  
 CURRENT CONTRACT AMOUNT: 31,213,351.08  
 ESTIMATED NET CHANGE THIS ORDER: 1,128,610.88  
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 32,341,961.96

Approval Required:  Region  Olympia Service Center  Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <span style="margin-left: 100px;"><input type="checkbox"/> EXECUTED</span>  <hr/> PROJECT ENGINEER 1/28/2020 <hr/> DATE	<input checked="" type="checkbox"/> EXECUTED:  <hr/> STATE CONSTRUCTION ENGINEER February 10, 2020 <hr/> DATE
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <span style="margin-left: 100px;"><input type="checkbox"/> EXECUTED</span> REGIONAL ADMIN:  <hr/> BY: 2/4/2020 <hr/> DATE	OTHER APPROVAL WHEN REQUIRED  <hr/> SIGNATURE <span style="float: right;">DATE</span>  <hr/> REPRESENTING

**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

DATE: 01/16/20  
Page 2 of 3

CONTRACT NO: 009168

CHANGE ORDER NO: 21

All work, materials, and measurements to be in accordance with the provisions of the Standard Specifications and Special Provisions for the type of construction involved.

This contract is revised as follows:

**DESCRIPTION**

This change order revises the unit pricing of Bid Item No. 8, "Cleaning, Sealing and Caulking Pack Rust", for quantity in excess of 125 percent of the original Proposal quantity in accordance with Standard Specifications Section 1-04.6.

**MEASUREMENT AND PAYMENT**

New item "CO#21 Cleaning, Sealing and Caulking Pack Rust" will be paid at the agreed unit price of \$73.50 per linear foot. This shall be full pay for all labor, equipment, materials and associated costs necessary to perform the Work.

**CONTRACT TIME**

It is mutually agreed that an extension of time will not be granted as a result of this change order, and a written time impact analysis is not required.

**WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION  
CHANGE ORDER**

DATE: 01/16/20  
Page 3 of 3

<b>CONTRACT NO: 009168</b>				<b>CHANGE ORDER NO: 21</b>			
ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE

1019	01	4487	CO#21 CLEANING, SEALING AND CAULKING PACK	L.F.	73.50	15,355.25	1,128,610.88
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1,128,610.88  
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**Contract 009168  
CHANGE ORDER NO. 21  
ESTIMATE**

**Bid Item No. 8 Overrun**

**Prepared by Joshua Hopkins, Shawn Neil Wendt, P.E. and Brendan Byron**

Item Description	Qty.	Unit	Unit Price	Total
<b>Labor</b>				
Painter - Union DC57	1363	HOUR	\$73.21	\$99,785.23 ✓
			29% Markup on Labor	\$28,937.72 ✓
			Total Prime Contractor Labor	\$128,722.95 ✓
<b>Equipment &amp; Materials</b>				
Pickup, F250 4x4 Crew Diesel	1363	HOUR	\$13.00	\$17,719.00 ✓
1250 Air Hoist Sky Climber	1363	HOUR	\$17.84	\$24,315.92 ✓
Blast Pot	1363	HOUR	\$32.65	\$44,501.95 ✓
Vacuum Cleaner	1363	HOUR	\$1.12	\$1,526.56 ✓
Compressor, Doosan 1600 cfm	1363	HOUR	\$106.12	\$144,641.56 ✓
Caulking, Sikaflex 1A, 10.1 oz.	673	EACH	\$3.56	\$2,395.88 ✓
Blast Media, Zoro Select Coal Slag, 20/40 Grit	1363	HOUR	\$440.64	\$600,592.32 ✓
			Subtotal Prime Contractor Equipment	\$835,693.19 ✓
			21% Markup on Equipment	\$175,495.57 ✓
			Total Prime Contractor Equipment	\$1,011,188.76 ✓
			Total Cleaning, Sealing and Caulking Pack Rust	\$1,139,911.71 ✓
			Linear Feet Paid to Date	<del>\$16,355.25</del> ✓
			WSDOT Estimated Revised Unit Price	\$69.70 ✓
			Contractor's Proposed Unit Price	\$77.00 ✓
			Agreed Negotiated Unit Price	\$73.50 ✓
			Percent Difference	5.46% ✓
			<b>Total for New Item "CO#21 Bid Item No. 8 Overrun"</b>	<b>\$1,128,610.88</b>
			Back Out Bid Item No. 8 to 125% of Planned Quantity	-\$1,535,525.00
<b>Total Estimated Savings this Change Order</b>				<b><u>-\$406,914.12</u></b>

**Notes:**

The Contractor completed 16,355.25 linear feet of cleaning, sealing and caulking pack rust as of July 9, 2019. This estimate assumes a cleaning and caulking production rate of 5 minutes per linear foot. Applying these rates to 16,355.25 linear feet yields a total of 1,363 hours. Labor rates were obtained from the Contractor's certified payrolls, which are assumed to be correct. Equipment rates were obtained from the Rental Rate Blue Book, which is assumed to be correct.

For caulking material, this estimate uses Sikaflex 1A, which comes in 10.1 fluid ounce cartridges. A price quote of \$3.59 per cartridge was obtained from EMI Supply, Inc. One cartridge yields 24.3 linear feet of caulking, so 673 cartridges are required for the 16,355.25 linear feet of caulking. For blast media, this estimate uses Zoro Select Coal Slag (Black Beauty) with 20/40 grit and pricing of \$36.72 per 80 pound bag. A blast media consumption rate of approximately 960 pounds per hour was obtained from Blastmaster and assumes the use of a No. 6 Nozzle and 80 psi of air pressure.