



Contract Number 009151	Contract Title I-90, Floating Bridges Replace Anchor Cables	Federal Aid Number NHPP-0901(497)
Change Order Number 7R1	Change Description Schedule Recovery	Date
Region Northwest Region	Project Engineer Dave Lindberg, P.E.	Phone Number 425-225-8725
Prime Contractor / Design-Builder American Bridge Company		
<input checked="" type="checkbox"/> Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications or the RFP <input type="checkbox"/> Change proposed by Contractor / Design-Builder		
Evolution & Description Of Change <p>Attached for review and further processing is PE recommended Change Order No. 7R1. This change order addresses time by paying for schedule recovery for Work performed on premium time on weekends for the issues described below. Cost impacts resulting from increased or decreased work associated with these changes will be addressed on separate change orders.</p> <p>This Contract provides for the replacement of 32 anchor cables on the I-90 Floating Bridges and includes a weather work window of April 1 to September 30 of any given year.</p> <p><u>Issue #1: Unconstructible Wire Stand Socket Detail</u> The Contract specifies that anchor cables shall be socketed in the vertical position. On April 17, 2018, the Contractor discovered that vertical socketing was not possible due to dimensions of the wire strand socket and pontoon port cover being inconsistent with what is shown in the Contract Plans. As a result of this change the schedule was impacted 6 working days.</p> <p>In order to keep the project on schedule, the Contractor re-sequenced their Work to Bridge 90/25S and began Work on Anchor Cable A-SW. This resulted in a one (1) working day delay for barge movement and reconfiguration. WSDOT's processing time for the new horizontal socketing plan resulted in a four (4) working day delay during which the Contractor was on standby. In addition, the new socketing procedure resulted in a learning curve delay of one (1) working day for Anchor Cable F-N.</p> <p><u>Issue #2: Excavation Issues at Anchor Cables G-S</u> After Anchor Cable 90/25N C-S was completed, the only transverse cable on the main barge was Cable G-S. Anchor cable G-S required extensive excavation beyond the limits identified in the contract requiring additional time. The main barge crew was on standby for six (6) working days during the excavation of the eyebar for this cable. The replacement of G-S was completed on June 6, 2018.</p> <p><u>Issue #3: Excavation Issues at Anchor Cable I-S</u> The next available anchor cable to install after the installation of G-S, was Anchor Cable I-S, which also required extensive excavation to expose the eyebar beyond the limits identified in the contract. The additional excavation to expose the eyebar for Anchor Cable I-S was ongoing concurrent to the replacement of G-S, but was not completed until June 13, 2018. The main barge crew was on standby for two (2) working days during the excavation of the eyebar at cable I-S. Since the excavation was taking longer than expected for cable I-S, the Contractor re-sequenced their schedule to begin Work on Anchor Cable P-S next. This resulted in a delay of one (1) working day on June 11, 2018 to reconfigure and move the barge. This removed the remaining excavation work for cable I-S from the critical path of the project schedule and the main barge crew was able to continue on Anchor Cable P-S.</p> <p>In summary, the wire strand socket plan error and the related consequent events as well as the excavation issues at Anchor Cables G-S and I-S resulted in a total delay of 15 working days. Please see the attached Time Impact Analysis for additional information.</p> <p>In order to complete the Work by September 30, 2018 as specified the Contract Provisions, WSDOT and the Contractor agreed to proceed with a 15-day schedule recovery plan to mitigate the accrued 15-day delay. The plan provides for Work to be completed on select Saturdays and Sundays on premium time. On August 22, 2018, WSDOT and the Contractor agreed to an amount of \$803,600.00, which is to be paid at a daily rate of \$42,793.52 for 8 Saturdays and \$65,893.12 for 7 Sundays.</p>		

Distribution By:

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- Copy of Change Records & Change Order w/Backup - Project Engineer
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Contract Number 009151	Contract Title I-90, Floating Bridges Replace Anchor Cables	Change Order Number 7R1
<p>Basis of Cost & Justification:</p> <p>New item "CO#7R1 Schedule Recovery Saturday Premium Pay" shall be paid at the agreed price of \$42,793.52 per day.</p> <p>New item "CO#7R1 Schedule Recovery Sunday Premium Pay" shall be paid at the agreed price of \$65,893.12 per day.</p> <p>WSDOT calculated an independent estimate in the amount of \$824,060.99, which is \$43,883.11 for 8 Saturdays and \$67,570.87 for 7 Sundays. On August 22, 2018, WSDOT and the Contractor agreed to an amount of \$803,600.00, which is \$42,793.52 for 8 Saturdays and \$65,893.12 for 7 Sundays. Please see the attached cost estimate for the basis and justification of cost.</p> <p>The net amount for this change order is estimated to be \$803,600.00.</p>		
<p>Contract Time:</p> <p>This change order provides for Work outside of the normal scheduled work week, so no additional working days were required. As a result, it is mutually agreed that an extension of time will not be granted as a result of this change order.</p>		
<p>Prior Approvals:</p> <p>Kevin Waligorski, Asst. State Construction Engineer, gave written approval for this change August 7, 2018. Cathy Arnold, NWR Engineering Manager, gave written approval for this change July 26, 2018. Dave Lindberg, Project Engineer, gave verbal approval for this change July 12, 2018.</p>		
<p>List Attachments:</p> <p>Change Order Checklist Cost Estimate Written Approval</p>		

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**WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
CHANGE ORDER**

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CONTRACT NO: 009151 FEDERAL AID NO: NHPP-0901 (497)
 CONTRACT TITLE: I-90, FLOATING BRIDGES REPLACE ANCHOR CABLES
 CHANGE ORDER NO: 7 RI SCHEDULE RECOVERY




PRIME CONTRACTOR: SW0230778 AMERICAN BRIDGE COMPANY
 1390 WILLOW PASS RD
 SUITE 330
 CONCORD CA 94520-5250

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

ENDORSED BY:  _____ CONTRACTOR Brian A. Petersen _____ DATE 08/23/18 _____	SURETY CONSENT: _____ ATTORNEY IN FACT _____ DATE _____
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ORIGINAL CONTRACT AMOUNT: 5,755,000.00
 CURRENT CONTRACT AMOUNT: 5,767,711.19
 ESTIMATED NET CHANGE THIS ORDER: 803,600.00
 ESTIMATED CONTRACT TOTAL AFTER CHANGE: 6,571,311.19

Approval Required: Region Olympia Service Center Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED  for Dave Lindberg _____ PROJECT ENGINEER _____ DATE 9/10/2018 _____	EXECUTED:  _____ STATE CONSTRUCTION ENGINEER _____ DATE 10/8/18 _____
<input checked="" type="checkbox"/> APPROVAL RECOMMENDED <input type="checkbox"/> EXECUTED REGIONAL ADMIN:  _____ BY: _____ _____ DATE 9-12-18 _____	OTHER APPROVAL WHEN REQUIRED _____ SIGNATURE DATE _____ REPRESENTING

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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 provides compensation for Work performed on premium time for days outside of the normal scheduled Work week. Premium time consists of overtime and double time worked above standard time by the Prime Contractor and Subcontractors.

MEASUREMENT AND PAYMENT

New item "CO#7R1 Schedule Recovery Saturday Premium Pay" shall be paid at the agreed price of \$42,793.52 per day.

New item "CO#7R1 Schedule Recovery Sunday Premium Pay" shall be paid at the agreed price of \$65,893.12 per day.

CONTRACT TIME

This change order work did not affect the critical path and no additional working days were required for this Work. As a result, 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.

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CONTRACT NO: 009151				CHANGE ORDER NO: 7 R1			
ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE

1009	01		CO#7R1 SCHEDULE RECOVERY SATURDAY PREMIUM	DAY	42,793.52	3.00	128,380.56
1009	02		CO#7R1 SCHEDULE RECOVERY SATURDAY PREMIUM	DAY	42,793.52	2.00	85,587.04
1009	03		CO#7R1 SCHEDULE RECOVERY SATURDAY PREMIUM	DAY	42,793.52	2.00	85,587.04
1009	04		CO#7R1 SCHEDULE RECOVERY SATURDAY PREMIUM	DAY	42,793.52	1.00	42,793.52
1010	01		CO#7R1 SCHEDULE RECOVERY SUNDAY PREMIUM P	DAY	65,893.12	2.00	131,786.24
1010	02		CO#7R1 SCHEDULE RECOVERY SUNDAY PREMIUM P	DAY	65,893.12	2.00	131,786.24
1010	03		CO#7R1 SCHEDULE RECOVERY SUNDAY PREMIUM P	DAY	65,893.12	2.00	131,786.24
1010	04		CO#7R1 SCHEDULE RECOVERY SUNDAY PREMIUM P	DAY	65,893.12	1.00	65,893.12

803,600.00
