July 13, 2016

TO:        Marco Foster, MS-47354

THRU:      T. Madden / K. Klingman, NB82-230

FROM:      P. Fuller NB82-66

SUBJECT:   Contract 8549
           AWV-Replacement NA Connection
           F.A. Project No: STPF-0099(122)
           CHANGE ORDER #169
           King County Ductbank

Attached for your review and further processing is HQ executed change order No. "CO169 King County Ductbank". This change order has been processed in accordance with the attached change order checklist.

Description of Change
This change order installs a new King County Metro (KCM) ductbank along Harrison St. between 6th Ave. and Taylor Ave. This work is a King County Metro ductbank relocation.

Development of the Change
On 5/29/2016 via RFI#349, the Contractor informed our office there was a conflict with the new pavement roadway section and an existing KCM power duct bank vault located at approximately H line Station 95+20. The Contractor also noticed that the cover between the bottom of new PCCP and top of existing ducts gets reduced down to a little over 1ft at the vault. KCM discussed various alternatives, leaving the ductbank in place and adjusting the road superelevation to gain clearance, reducing the roadway x-section to gain more clearance, and reinforcing the roadway cross section with steel plates. After much discussion about how to solve this issue, KCM’s preferred option was to construct a parallel ductbank that meets current standards for cover and duct capacity. This option is a betterment compared to the existing ductbank.

We directed our Contractor to perform the scoping and design of this ductbank in November 2015.

SDOT (Seattle Department of Transportation) will address payment to WSDOT. SDOT will fund the cost of this duct bank relocation and then they will pursue reimbursement.
directly from King County Metro. Amendment 2 for Task Order WSDOT-SDOT-AH was approved and signed on June 28, 2016 (Attachment E).

Schedule Analysis
The Contractor claimed this added work would require an additional 54 working days. The work to construct the ductbank is on the critical path and it is all added work. We performed an independent analysis of the added work and we agreed with the Contractor’s assessment. All of the work included in this change order is on the critical path of the approved schedule (Attachment D).

Approvals
- PE Approval – Patrick Fuller gave approval on 6/29/2016 (Attachment B).
- Region Approval – Dave Sowers gave approval on 6/28/2016 (Attachment B).
- HQ Approval – Craig McDaniel gave approval on 6/29/2016 (Attachment B).
- FHWA Approval – Anthony Sarhan gave approval on 6/29/2016 (Attachment B).
- City Funding Approval – Jonathan Layzer approval on 6/28/2016 (Attachment B).
- Program Management – Mario Mathisen gave approval on 7/06/2016 (Attachment B).

Entitlement & Price
The Contractor is entitled to additional compensation for added work to the Contract. This change results in a significant amount of added work to the Contract. The total amount of this change order is $1,359,776.70 which includes a lump sum of $1,221,941.00 and contract unit items making up the difference. The work also includes added bid item work to restore existing pavement.

We performed an independent estimate of $1,336,478.37 and all parties WSDOT, SDOT and King County agreed to the scope and cost of the added work including the overhead costs for the added 54 working days. (See Estimate – Attachment C).

Contract Time
This change order adds 54 working days. The added work was on the critical path. There are no changes to contract interim completion dates as a result of this change order.
WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION

CHANGE ORDER

DATE: 06/29/16
Page 1 of 10

CONTRACT NO: 008549
FEDERAL AID NO: STPF-0099(122)

CONTRACT TITLE: SR 99, ALASKAN WAY VIADUCT - REPLACEMENT NORTH ACC
CHANGE ORDER NO: 169  KING COUNTY DUCT BANK

PRIME CONTRACTOR: GUY F. ATKINSON CONSTRUCTION, LLC.
707 SOUTH GRADY WAY STE 500
RENTON WA 98057-3224

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

ENDORSED BY:

SURETY CONSENT:

CONTRACTOR

ATTORNEY IN FACT

DATE

ORIGINAL CONTRACT AMOUNT: 41,640,622.60
CURRENT CONTRACT AMOUNT: 48,099,523.88
ESTIMATED NET CHANGE THIS ORDER: 1,359,776.70
ESTIMATED CONTRACT TOTAL AFTER CHANGE: 49,459,300.58

Approval Required: ( ) Region ( ) Olympia Service Center ( ) Local Agency

APPROVAL RECOMMENDED

PROJECT ENGINEER

STATE CONSTRUCTION ENGINEER

EXECUTED:

REGIONAL ADMIN:

OTHER APPROVAL WHEN REQUIRED

REPRESENTING

DATE

DATE

DATE

DATE

DATE

DATE

CG02v04 (revised Feb 2005)
CONTRACT NO: 008549  CHANGE ORDER NO: 169

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 installs a new King County Metro ductbank as shown on the plans.

This change order adds the following plan sheets: C2.1-C2.6.

MATERIALS
All materials incorporated into the project shall meet the requirements of all the Contract Documents.

MEASUREMENT
Measurement of the new lump sum item, "CD169 King County Ductbank", shall be in accordance with Standard Specification 1-09.1, Measurement of Quantities of Lump Sum Items.

PAYMENT
This change order creates a new lump sum item, "CD169 King County Ductbank" in the amount of $1,221,941.00. This amount shall be full payment for all labor, equipment and materials to install the King County Metro ductbank and overhead costs associated with added days to complete the work described above per Section 1-09.1 of the Standard Specifications.

This change order shall include the following Contract Item increases:

Contract Item 16, "Removing Cement Conc. Pavement" by 317 SY, for a total of $7,291.00.

Contract Item 25, "Handling, Hauling and Disposing Dangerous Waste" adding by EST., for a total of $10,000.00.

Contract Item 27, "Roadway Excavation Incl. Haul" by 40 CY, for a total of $760.00.

Contract Item 31, "Disposing of Contaminated Material" by 837 TON, for a total of $40,259.70.

Contract Item 139, "Crushed Surfacing Base Course" by 75 TON, for a total of $1,800.00.

Contract Item 142, "C.O.S. Conc. Pavement" by 110 CY, for a total of $27,830.00.

Contract Item 146, "Epoxy Coated Dowel Bar" by 220 EACH, for a total of
$2,200.00.

Contract Item 147, "C.O.S. Tie Bar with Drill Hole" by 75 EACH, for a total of $1,125.00.

Contract Item 161, "Street Cleaning" by 100 HR, for a total of $11,500.00.

Contract Item 163, "Erosion/Water Pollution Control" by EST, for a total of $10,000.00.

Contract Item 216, "C.O.S. Cement Conc. Curb" by 30 LF, for a total of $870.00.

Contract Item 281, "Flaggers and Spotters" by 320 HR, for a total of $13,280.00.

Contract Item 282, "Other Traffic Control Labor" by 20 HR, for a total of $920.00.

Contract Item 329, "Force Account Potholing Utilities" by EST, for a total of $10,000.00.

This change order totals $1,359,776.70.

CONTRACT TIME
This change order adds 54 working days to this Contract. No changes to contract interim milestones are made as a result of this change order.
## Washington State Department of Transportation
### Change Order

**Contract No:** 008549  
**Change Order No:** 169

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<tr>
<th>Item No</th>
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**Total:** 1,359,776.70
NOTES:

1. UNLESS NOTED OTHERWISE, ELEVATION AND SIZE OF EXISTING UTILITIES ARE BASED ON POTHOLE DATA PROVIDED BY KING COUNTY.

2. POWER DUCT ELEVATION AND SIZE FOUND BY CONSTRUCTION OF THE NORTH GARAGE FRANCHISE UTILITIES RELOCATION - PHASE 1 PLANS BY OTHERS.

3. POWER DUCT ELEVATION AND SIZE DERIVED FROM UNDERGROUND ATTIC PLAN, ELECTRICAL PLANS, AND FIELD VERIFICATION.

4. FIELD VERIFICATION, LOCATION, ELEVATION, AND SIZE OF POWER DUCTS FOUND BY CONSTRUCTION OF THE NORTH GARAGE FRANCHISE UTILITIES RELOCATION - PHASE 1 PLANS BY OTHERS.

5. FIELD VERIFICATION, LOCATION, ELEVATION, AND SIZE OF POWER DUCTS FOUND BY CONSTRUCTION OF THE NORTH GARAGE FRANCHISE UTILITIES RELOCATION - PHASE 1 PLANS BY OTHERS.

6. FIELD VERIFICATION, LOCATION, ELEVATION, AND SIZE OF POWER DUCTS FOUND BY CONSTRUCTION OF THE NORTH GARAGE FRANCHISE UTILITIES RELOCATION - PHASE 1 PLANS BY OTHERS.

7. ALL CROSSING UTILITIES ARE LIVE AND MUST BE MANTAINED AND SUPPORTED UNLESS NOTED OTHERWISE ON PLANS.

8. SEE SHEET C.2.4 FOR CONSTRUCTION NOTES.
1. UNLESS NOTED OTHERWISE, ELEVATION AND SIZE (DIA. OR WIDTH AND HEIGHT) OF EXISTING UTILITIES ARE BASED ON POTHOLED DATE PROVIDED BY ATKINSON.

2. POWER DUCT ELEVATION AND SIZE NOT FOUND BY POTHOLED DATE FROM OTHERS. DEPTH AND SIZE ESTIMATED FROM "SEATTLE CENTER 5TH AVE NORTH GARAGE POWER DUCTS" DRAFT UTILITY RELocations - PHASE 1 PLANS DATE 12/17/15.


4. FIELD VERIFY LOCATION, ELEVATION AND SIZE OF UTILITIES BEFORE INSTALLATION OF NEW DUCT BANK TO ENSURE THAT DUCT BANK PROFILE IS PROVIDED MIN. COVER OF 3 FEET AND MIN. VERTICAL SEPARATION OF 1 FOOT FROM POWER TRANSMISSION DUCTS AND 0.5 FEET FROM ALL OTHER UTILITIES.

5. CONSIDER FOR DUCT BANK INSTALLATION COMPLIES TO ALL NEW IMPERIAL (COUNTY TO BE DESIGNED) BUT MUST BE PROTECTED (SEPARATE LINE) DURING CONSTRUCTION.

6. ALL CROSSING UTILITIES ARE LIVE AND MUST BE MAINTAINED AND SUPPORTED EXCEPT STATED OTHERWISE ON PLANS.

7. SEE SHEET C2.4 FOR CONSTRUCTION NOTES.
1. Frame tight to saucut opening.
2. Grout any cracks with non-shrink grout.
3. Frame to support future loads.

VAULT SECTION

EXISTING ELECTRICAL VAULT CONNECTION

SECTION A

CONDUIT FRAME

SECTION B

CHANNEL W/ MILD STEEL STUDS

DUCT BANKS UNDERGROUND POWER PLAN

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