



**AMENDMENT**

**Contract:** West Oahu Station Group Final Design

**Amendment No.:** 00007

**Contractor:** URS Corporation

**Contract No.:** SC-HRT-1200116

**Commencement Date:** 6/15/12 **Original Contract Time (Days):** 1614 **Original Completion:** 11/14/2016

**DESCRIPTION OF WORK:**

This contract amendment is for:

To provide Final Design (FD) for modification of the traffic signals and HDOT street lighting required in order to maintain sightlines of the future University of Hawaii West Oahu (UHWO) Station pedestrian bridge.

The associated Work includes one Intermediate Design (ID) submittal to obtain HART feedback and an approved FD submittal to be incorporated into the UHWO FD submittal and the overall West Oahu Station Group construction package.

CHANGES INCLUDED IN AMENDMENT				
Type	Number	Description	Cost	Time Change
RFCC	00013	UH West Oahu 30' Platform Section	\$29,983.00	7
RFCC	00012	Ho'opili Access Road Relocation	\$1,964.00	0
RFCC	00011	Traffic Signal Conflict at UHWO	\$30,775.00	30
Total Amount This Amendment No. 00007			\$62,722.00	37

The Original Contract Sum	\$7,789,000.00
Net Change by Previously Authorized Requests and Changes	\$1,473,805.27
The Contract Sum Prior to This Amendment	\$9,262,805.27
The Contract Sum Will Not be Changed	\$0.00
The New Contract Sum Including This Amendment	\$9,262,805.27
The Contract Time Will be Increased	37 days
The Revised Date of Substantial Completion as of this Amendment	06/21/2017

**Computed and Checked:**

1. *[Signature]* 8/20/14  
HART Project Manager

**Approved:**

2. *[Signature]* 8-2-14  
Contractor

**Approved:**

3. *[Signature]*  
HART Officer In Charge

**Certify Availability of Funds:**

4. *[Signature]*  
HART Fiscal Officer 8/20/14

**Approved as to form and legality:**

5. *[Signature]*  
Deputy Corporation Counsel  
GARY Y. TAKEUCHI

**Approved:**

6. *[Signature]*  
HART Executive Director & CEO  
9/5/14  
HART Execution Date

*CMU 8/20/14 D/A 8/20/14*



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**Activities shall include:**

Review of available drawings, calculations, analysis and reports, preparation of street lighting calculations, preparation of FD of the street lights and relocated electrical appurtenances. The street lighting design will be shown to install new street lights where none currently exist and for relocation of existing street lighting that conflicts with proposed designs. Necessary details for street lighting improvements will be shown on the drawings. Existing and proposed electrical service points will be shown.

Design of the traffic signal installations and modifications including supporting structure. The traffic signal plans will be prepared at 1"=20' to HDOT-H standards and will show the following: proposed striping, existing and proposed signal detector loops and electrical wiring, existing and proposed signal poles and pull boxes, Conductor and conduit schedules and phase diagrams, existing and proposed electrical service points, existing and proposed signal controllers, existing and proposed interconnect cabling, as appropriate.

Preparation of standard specifications for the traffic signals and street lights.

Updated Auto Turn and street view exhibits.

Preparation of an engineer's cost estimate for the traffic signals, street lights, and relocated electrical appurtenances.

Preparation of submittal of FD construction drawings to HDOT-H for review and approval. Up to two revisions of the design based on HDOT-H review will be prepared including revisions to all materials.

Presentation by URS of the analysis results and design to HART.

**Deliverables shall include:**

A report providing results for the street lighting calculations.

Four (4) sets of Hawaii Civil/PE signed and sealed drawings (plus one CD) as follows:

- Traffic Signal Plans and Details
- Street Lighting Plans and Details
- Quantity Sheets
- Special and Technical Provisions
- Engineer's Cost Estimate

To provide FD for the relocation of Ho'opili access road in the vicinity of the Ho'opili Station.

The associated Work includes one ID submittal to obtain HART feedback and an approved FD submittal to be incorporated into the Ho'opili FD submittal and the overall West Oahu Station Group construction package.

**Activities shall include:**

Coordination with HART to relocate the all-weather access road in the vicinity of Ho'opili Station.

Preparation of a preliminary design submittal covering all aspects of the access road design, for HART review.

Updates to the Basis of Design Report to reflect the relocation of the access road.

Updates to the independent estimate of construction quantities and costs based on the FD design.

Preparation and submittal of ID and accepted FD submittal for the access road.

**Deliverables shall include:**

Stamped and signed FD civil engineering construction documents for input to the overall West Oahu Station Group construction package, typically including but not limited to the following:

- Grading plans, profile, and details (3 sheets total)
- Construction quantity estimates

To provide Final Design of the University of Hawaii West Oahu (UHWO) Station platform girder between guideway piers 47 and 48.

**Activities shall include:**



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Analysis of the platform design consistent with the remainder of the UHWO Station platform design.

Updating the affected structural drawings.

Interface with West Oahu Farrington Highway (WOFH) guideway Contract to coordinate support of the platform loading, and any clearances or support details related to the design.

Interface with the Core System Contract (CSC), if required, in connection with the location and mounting of devices to the subject section of platform. Review of available drawings, calculations, analysis and reports.

Review RFIDs exchanged between WOFH and CSC related to the 30-foot platform section.

Preparation of structural analysis calculations.

Preparation of FD of the UHWO Station platform girder between guideway piers 47 and 48.

Preparation of details of joint between guideway slab and platform girder between guideway piers 47 and 48

Adjusting the design of conduits in the area of the platform girder, as required.

Adjusting the architectural backgrounds as required.

Updating the specifications, if required.

Updating the cost estimate to reflect the design change.

Updating the Pre-final design submittal for UHWO Station to reflect the changes.

Updating the Basis of Design.

Updating the FD submittal for UH West Oahu, either as a part of the initial submittal, time permitting, or by addendum.

Performance of Quality reviews in accordance with the QAP.

Deliverables shall include:

Updated structural calculations  
 Updated FD structural drawings  
 Updated specification sections, if required  
 Updated Basis of Design

By execution of this Amendment No. 00007, the Consultant acknowledges and agrees that the price adjustment set forth on this Amendment No. 00007 represents equitable compensation for any and all changes and additions to the scope of work described herein. Said price adjustment shall be in complete satisfaction of any and all claims by the Consultant, its subcontractors and suppliers, or by anyone claiming by, through or under the Consultant for any increased compensation or damages, to person or property, arising out of said changes and additions being made to the scope of work. The Consultant further agrees to defend, indemnify, and hold HART harmless against any and all such claims.

For and in consideration of the amount of SIXTY TWO THOUSAND SEVEN HUNDRED TWENTY TWO and 00/100 DOLLARS (\$62,722.00) for this Amendment No. 00007, the Consultant hereby releases, acquits, and forever discharges HART from and on account of any and all claims referred to above.

### BASIS OF PAYMENT

Payment for this Change Order will be made in accordance with the following Schedule of Milestone

Milestone Title	Milestone Code	Activity ID	Unit Value	Qty	Units	SM Value (\$)
RFCC 00011 UHWO TS Design for HART Review	B2.01.22.00.80.02	CO.116.00007.001	\$23,494.00	1	LS	\$23,494.00
RFCC 00011 Incorporation of UHWO TS into Addendum	B2.01.22.00.80.02	CO.116.00007.002	\$4,740.00	1	LS	\$4,740.00
RFCC 00011 UHWO TS Support during Bid	BB.01.19.00.80.04	CO.116.00007.003	\$282.00	1	LS	\$282.00



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RFCC 00011 UHWO TS Support during Construction	BB.01.27.00.80.04	CO.116.00007.004	\$2,259.00	1	LS	\$2,259.00
RFCC 00012 Ho'opili Access Road FD	B3.01.22.00.80.02	CO.116.00007.005	\$1,802.00	1	LS	\$1,802.00
RFCC 00012 Ho'opili Access Road support during Bid	BB.01.19.00.80.04	CO.116.00007.006	\$18.00	1	LS	\$18.00
RFCC 00012 Ho'opili Access Road support during Construction	BB.01.27.00.80.04	CO.116.00007.007	\$144.00	1	LS	\$144.00
RFCC 00013 UHWO Platform segment Design for HART Review	B2.01.22.00.80.02	CO.116.00007.008	\$26,260.00	1	LS	\$26,260.00
RFCC 00013 Incorporation of UHWO Platform segment into Addendum	B2.01.22.00.80.02	CO.116.00007.009	\$1,247.00	1	LS	\$1,247.00
RFCC 00013 UHWO Platform segment Support during Bid	BB.01.19.00.80.04	CO.116.00007.010	\$275.00	1	LS	\$275.00
RFCC 00013 UHWO Platform segment Support during Construction	BB.01.27.00.80.04	CO.116.00007.011	\$2,201.00	1	LS	\$2,201.00
Deduct From Allowance	00.00.00.00.90.03	CO.116.00007.012	(\$62,722.00)	1	LS	(\$62,722.00)