HONOLULU RAIL TRANSIT PROJECT

July 2015
QUARTERLY REPORT

HONOLULU AUTHORITY for RAPID TRANSPORTATION

www.HonoluluTransit.org

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REPORT FORMAT AND FOCUS

This report is submitted in compliance with the terms of FTA Contract No. DTFT60-09-D-00012, Task Order No. 2. Its purpose is to provide information and data to assist the FTA as it continually monitors the grantee's technical capability and capacity to execute a project efficiently and effectively, and hence, whether the grantee continues to be ready to receive federal funds for further project development.

This report covers the project and quality management activities on the Honolulu Rail Transit Project managed by the Honolulu Authority for Rapid Transportation (HART) with HART as the grantee and partially financed by the FTA FFGA.

ON THE COVER:
Left: West O'ahu Farrington Highway Guideway along Kualakai Parkway looking Diamond Head.
Upper right: West O'ahu Farrington Highway Guideway along Farrington Highway looking Waianae.
Lower right: Rail Operations Center (aka Maintenance and Storage Facility) site.

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LIST OF ACRONYMS

AB	AnsaldoBreda
ACS	Access Control System
AFE	Authorized for Expenditure
AGS	Airport Guideway and Stations
AHJV	Ansaldo Honolulu Joint Venture
AIS	Archaeological Inventory Survey
APTA	American Public Transportation Association
ARRA	American Recovery and Reinvestment Act
ASG	Airport Station Group
ASU	Airport Section Utilities
ATC	Automated Train Control
ATO	Automated Train Operation
AVA	Anil Verma Associates, Inc.
BA	Buy America
BAC	Buy America Compliance
BACM	Buy America Compliance Matrix
BCS	Balanced Cantilever System
BFS	Budget and Fiscal Services
BLS	Bureau of Labor Statistics
BMP	Best Management Practice
BOD	Board of Directors
BUE	Bottom-Up Estimate
CAM	Construction Access Milestone
CAR	Corrective Actions
CCGS	City Center Guideway and Stations
CCO	Contract Change Order
CCTV	Closed Circuit Television
CE&I	Construction Engineering and Inspection
CEL	Certifiable Elements List
CIL	Certifiable Items List
CM	Construction Manager
CMP	Corrugated Metal Pipe
CMS	Contract Management System
CMU	Concrete Multiple Unit
COI	Conflict of Interest
CONRAC	Consolidated Rental Car Facility
COR	Corporation Counsel
CPM	Critical Path Method
CPP	Contract Packaging Plan
CSC	Core Systems Contract
CSCC	Construction Specification Conformance Checklists
CSL	Cross Hole Sonic Logging
CSOC	Core Systems Oversight Consultant
CSSP	Construction Safety & Security Plan
CTS	Communications Transmission System
CWRM	Commission on Water Resource Management
CZM	Coastal Zone Management
DAGS	Department of Accounting & General Services
DB	Design-Build
DBB	Design-Bid-Build
DBE	Disadvantaged Business Enterprise
DBEDT	Department of Business, Economic Development and Tourism
DBOM	Design-Build-Operate-Maintain
DCAB	Disability and Communication Access Board
DCCC	Design Criteria Conformance Checklists
DCN	Design Change Notice
DDC	Department of Design and Construction
DES	Department of Environmental Services
DFIM	Design Furnish Install Maintain
DHHL	Department of Hawaiian Homelands
DHR	Department of Human Resources
DIT	Department of Information Technology
DKSG	Dillingham and Kaka'ako Station Group
DLIR	Hawai'i Department of Labor and Industrial Relations
DLNR	Department of Land and Natural Resources
DOE	Department of Education
DOH	Department of Health
DOL	Department of Labor
DPM	Deputy Project Managers
DPP	Department of Planning and Permitting
DPR	Department of Parks and Recreation
DPS	Department of Public Safety
DS	Downstream
DTS	Department of Transportation Services
DVT	Design Verification Test
ECP	Environmental Compliance Plan
E/E	Elevator/Escalator
EMC	Electromagnetic Compatibility
EMF	Electromagnetic Forces
EMI	Electromagnetic Interference
EMP	Environmental Management Plan
EOR	Engineer of Record
EOS	Electrically Operated Switches
ESA	Engineering Services Agreement
FAA	Federal Aviation Administration
FAI	First Article Inspections
FAT	Factory Acceptance Tests
FD	Final Design
FDC	Field Design Change
FEIS	Final Environmental Impact Statement
FFC	Fixed Facility Contractors
FFGA	Full Funding Grant Agreement
FHSG	Farrington Highway Station Group
FLSWG	Fire Life Safety Working Group
FTA	Federal Transit Administration
FTE	Full-Time Equivalent
FWS	Fish and Wildlife Service
GAT	Great Aleutian Tsunami
GDR	Geotechnical Data Report
GEC	General Engineering Consultant
GET	General Excise Tax
GIS	Geographic Information System
GSA	General Services Administration
GT	General Terms
HA	Hazard Analysis
HABS	Historic American Buildings Survey
HAER	Historic American Engineering Record
HALS	Historic American Landscape Survey
HART	Honolulu Authority for Rapid Transportation
HCC	Honolulu Community College
HCDA	Hawai'i Community Development Authority
HCSD	Hawai'i Capital Special District
HDOE	Hawai'i Department of Education
HDOH	Hawai'i Department of Health
HDOT	Hawai'i Department of Transportation
HDPE	High-density polyethylene
HECO	Hawaiian Electric Company
HFD	Honolulu Fire Department
HHF	Historic Hawai'i Foundation
HHPRB	Hawai'i Historic Places Review Board
HIE	Hawaii Independent Energy
HP	Historic Preservation
HPC	Historic Preservation Committee
HPCA	Historic Preservation Certification Application
HPD	Honolulu Police Department
HPF	Historic Preservation Fund
HRHP	Hawai'i Register of Historic Places
HRTP	Honolulu Rail Transit Project
HTI	Hawaiian Telcom
HTL	Hazard Tracking Log
I&T	Inspection & Testing
IAMR	Interstate Access Modification Report
ICCS	Interface Communications Control System
ICD	Interface Control Documents
ICE	Independent Cost Estimate
ICM	Interface Control Manual
IDS	Intrusion Detection System
IJ	Insolation Joint
INMS	Integrated Network Management System
ITP	Inspection and Test Plan
ITS	Intelligent Transportation Systems
JTMS	Joint Traffic Management System

JU&O	Joint Use & Occupancy
JUOA	Joint Use and Occupancy Agreement
KCDD	Kaka'ako Community Development District
KHG	Kamehameha Highway Guideway
KHSG	Kamehameha Highway Station Group
KIWC	Kiewit Infrastructure West Company
KKJV	Kiewit/Kobayashi Joint Venture
LCC	Leeward Community College
LEED	Leadership in Energy and Environmental Design
LPR	License Plate Reader
LRV	Light Rail Vehicle
MIM	Manufacture-Install-Maintain
MMIS	Maintenance Management Information System
MMP	Mitigation Monitoring Program
MOT	Maintenance of Traffic
MOU	Memorandum of Understanding
MOW	Maintenance of Way
MPS	Master Project Schedule
MPSS	Master Project Schedule Summary
MPV	Multiple Purpose Vehicle
MS4	Municipal Separate Storm Sewer System
MSE	Mechanically Stabilized Earth
MSF	Maintenance and Storage Facility
MTM	Modern Track Machineries
NCE	Non-Conformance Evaluation
NCR	Non-Conformance Report
NDC	Notice of Design Change
NEPA	National Environmental Policy Act
NHL	National Historic Landmark
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NR	National Register
NRHP	National Register of Historic Places
NTP	Notice to Proceed
NTS	Network Time Server
O&M	Operations and Maintenance
OCC	Operational Control Center
OCIP	Owner-Controlled Insurance Program
OIBC	O'ahu Island Burial Council
OIL	Open Items List
OSB	Operations and Servicing Building
OSHA	Occupational Safety and Health Administration
OTS	O'ahu Transit Services
OTW	Oceanic Time Warner
OTWC	Oceanic Time Warner Cable
PA	Programmatic Agreement
PAIS	Programmatic Agreement Implementation Schedule
PARs	Preventative Actions
PB	Parsons Brinckerhoff, Inc.
PE	Preliminary Engineering
PGC	Pacific Guardian Center
PHA	Preliminary Hazard Analysis
PICM	Project Interface Control Manual
PIG	Permitted Interaction Group
PIM	Project Interface Manager
PLA	Project Labor Agreement
PM	Project Managers
PMC	Project Management Consultant
PMIM	Project Management and Interface Management
PMOC	Project Management Oversight Contractor
PMSC	Program Management Support Consultant
PPE	Personal Protective Equipment
PSG	Platform Screen Gate
PSGS	Platform Screen Gate System
PV	Passenger Vehicle
QA	Quality Assurance
QAM	Quality Assurance Manager
QAP	Quality Assurance Plan
QC	Quality Control
QMP	Quality Management Plan
QMS	Quality Management System
QTF	Quality Task Force
RAC	Rail Activation Committee
RCMP	Risk and Contingency Management Plan
RE	Resident Engineer
READ	Real Estate Acquisition Database
RFC	Request for Change
RFI	Requests for Information
RFID	Requests for Interface Data
RFMP	Rail Fleet Management Plan
RFP	Request for Proposals
RFQ	Request for Qualifications
ROC	Rail Operations Center
ROD	Record of Decision
ROE	Right of Entry
ROW	Right-of-Way
RR	Risk Register
RSD	Revenue Service Date
RTM	Requirements Traceability Matrix
RTSA	Regional Transit Stabilization Agreement
S1	Segment 1
SAIS	Supplemental Archaeological Inventory Survey
SCADA	Supervisory Control and Data Acquisition
SCAP	Stream Channel Alteration Permit
SCC	Standard Cost Category
SHPD	State Historic Preservation Division
SIC	Sandwich Isle Communications
SLAN	Station Local Area Network
SOG	Slab on Grade
SOI	Secretary of the Interior
SOW	Scope of Work
SP	Special Provisions
SQP	Supplemental Quality Plan
SSC	Safety Security Certification
SSCP	Safety and Security Certification Plan
SSCWG	Safety and Security Certification Working Group
SSI	Sensitive Security Information
SSMP	Safety and Security Management Plan
SSRC	Safety and Security Review Committee
SSSP	Site Safety Security Plan
STCC	Spec/Testing Conform Checklists
SWPPP	Storm Water Pollution Prevention Plan
T&M	Time and Material
TCCR	Train Control and Communications Room
TCP	Traffic Control Plan
TES	Traction Electrification System
TIGER	Transportation Investment Generating Economic Recovery
TOC	The Outdoor Circle
TOD	Transit-Oriented Development
TPO	Thermoplastic Olefin
TPSS	Traction Power Sub-Station
TSA	Transportation Security Administration
TSI	Transportation Safety Institute
TVA	Threat and Vulnerability Analysis
TVM	Ticket Vending Machine
TWF	Train Wash Facility
UCA	Utility Construction Agreement
UFRCRA	Utility Facilities Relocation and Cost Reimbursement Agreement
UH	University of Hawai'i
UHWO	University of Hawai'i West O'ahu
UL	Underwriters Laboratories
UPS	Uninterrupted Power Supply
USACE	U.S. Army Corps of Engineers
USDOT	U.S. Department of Transportation
VE	Value Engineering
WA	Work Area
WHS	Waipahu High School
WOFH	West O'ahu/Farrington Highway
WOSG	West O'ahu Station Group
WSS	West Side Stations
WSSG	West Side Station Group
WTB	Wheel Truing Building
WYL	West Yard Lead
YCB	Yard Control Bungalow
YOE	Year of Expenditure

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PROJECT MAP

***HIGHLIGHT OF THE MONTH: KAKA'AKO STATION**
Serving the Kaka'ako, Makiki, Ward and Outlying Residential Areas

Station Features:

- ADA Pedestrian Access
- Bicycle Parking
- Elevators, Escalators and Stairs
- Kiss-and-Ride
- TheBus – Local services through Kaka'ako
- TheHandi-Van Pick-up/Drop-off
- Platform Type: Side
- Planned # of Entrances: 1

*Each month a different station will be highlighted with architectural renderings and key information.

1 EXECUTIVE SUMMARY

KEY ACTIVITIES THIS MONTH

Project Overview

The Honolulu Authority for Rapid Transportation (HART) achieved another project milestone in July with the completion of the balanced cantilever construction work over the westbound side of the H-1 Freeway for the West O'ahu Farrington Highway (WOFH) segment. Crews also completed the elevated rail guideway over the Fort Weaver Road overpass.

HART and its contractors have now completed more than three miles of the elevated guideway between east Kapolei and Waipahu. Crews have built more than 180 columns and have erected nearly 1,600 guideway segments.

In July, HART officially awarded Nan, Inc. the contract to build the three stations in the West O'ahu Station Group. Nan, Inc. was one of four companies to bid on the contract to build the East Kapolei, UH-West O'ahu and Ho'opili Stations. Nan, Inc. submitted the lowest bid at $56,088,470.

Coming up, a request for contract bids for the Kamehameha Highway Station Group, which includes the Pearl Highlands, Pearlridge and Aloha Stadium Stations, is scheduled to be issued in August.

HART Board of Directors

HART is seeking to fill a vacancy on its Board of Directors for a term that expires June 30, 2018.

The HART Board of Directors is responsible for establishing policies pertaining to the construction, operation and maintenance of the rail transit system. Under the City Charter, HART Board members serve as part-time volunteers and have a policy-making role.

The Board of Directors includes: three members appointed by the mayor; three members appointed by the Honolulu City Council; and both the city director of transportation services and the state director of transportation. They will collectively choose a ninth voting member of the Board. The director of the city's Planning and Permitting Department serves as an ex-officio non-voting member of the board.

Embossed Columns

HART has now completed the aesthetic columns for the three stations at the ewa end of the rail alignment.

In July, crews completed the embossed columns for the rail station to be built in east Kapolei near the Kroc Center. The design of the East Kapolei Station aesthetic columns celebrates the significance of Puu o Kapolei to Hawaiian agriculture.

Construction crews earlier completed work on the aesthetic columns for the UH-West O'ahu and Ho'opili Stations.

Cost:

Project Costs Summary Through June 26, 2015		
	Current Budget ($M)	Incurred To Date ($M)
Project Budget	$4,446.9	$1,580.7
Project Contingency	$501.7	$0.4
Finance Charges*	$173.1	$0.0
TOTAL	**$5,121.7**	**$1,581.1**
* $173.1 million represents the project debt financing costs that are federally eligible. The total estimated debt financing costs of the project is $215 million, per the FFGA Financial Plan.		

Schedule:

Project Progress* Through June 26, 2015				
	Actual		Early Plan	Late Plan
Overall Project Progress	36.2%		56.8%	47.7%
Overall Construction Progress	27.6%		49.5%	40.0%
Overall Design Progress	85.7%		97.8%	94.5%
Overall Utilities Progress	32.8%		57.8%	38.6%
*All progress charts reflect early program expectations regarding the award and execution of western stations and eastern guideway work. Both contracts have been rescheduled to later dates and once the overall schedule is rebaselined, the cost curves will be revised.				

Overview:

Core Systems Contract (CSC)

The CSC contractor, AHJV, is continuing to progress through Interim Design into Final Design. Qualification and design verification tests are ongoing, as are Communications and UPS tests. Construction interface with KKJV is ongoing. AHJV is on site working on the Yard Control Bungalow foundations. In addition, AHJV has shipped the MSF Traction Power Substation (TPSS) and will lift it into place on August 1. The first passenger vehicle carshell has left the manufacturing facility in Italy and is in transit to the final assembly facility in California. Passenger vehicle manufacturing, key system manufacturing, design verification and qualification testing activities are ongoing. An audit of AHJV's Passenger Vehicle Final Assembly facility was completed. Carshell assembly continues to progress at the Reggio Calabria facility in Italy with the second carshell being painted in July. (See Section 4.1.A for details)

Elevators and Escalators Manufacture-Install-Maintain Contract

The Elevator/Escalator contract is on schedule to meet the requirements of the Farrington Highway Station Group contract and the West O'ahu Station Group contract. The manufacturing and installation of the escalators and elevators is dependent on the award and construction of the individual stations. The release for manufacturing dates is in concert with the actual bid and award date for the various stations. The FHSG contract and WOSG contract have been awarded, however the NTP has not yet been issued for either project. The elevators and escalators for these six stations will be released once the respective contractor's schedules have been submitted and approved. The KHSG contract will be advertised in August, and elevators and escalators for these three stations will be released for manufacture once the KHSG contract is awarded and an approved schedule is received. (See Section 4.1.B for details)

West O'ahu Farrington Highway (WOFH) Contract

HART and Kiewit Infrastructure West Company (KIWC) continue to work together to ensure that quality and safety are the highest priorities. HART continues to monitor KIWC production rates as it relates to potential schedule impacts. KIWC submitted a revised baseline schedule in December of 2014 for which production is measured against. The most recent schedule, submitted June 2015, reflects a six month delay to the contractual substantial completion date specific to the LCC portables, parking lot and access structure operations. KIWC had previously shown four months was needed to complete the design and construction work at LCC, which does not affect guideway completion for functional track. HART is reviewing this situation, and KIWC and HART continue to work together to mitigate the impacts to the critical path activities. At the time that the LCC Construction Right of Entry Agreement with the University of Hawai'i (UH) is received, it is anticipated that the Contract Change Order needed to update the substantial completion date and associated baseline acceptance will be achieved. In August, the third Underslung Truss (Heading #3) is expected to be erected by Span 257 to advance the erection of segments from the Balanced Cantilever through the end of the alignment. (See Section 4.2.A for details)

Maintenance and Storage Facility (MSF) Contract

Interior and exterior painting is on-going at the MOW, OSB and WTB. De-stressing of the storage and maintenance tracks is underway. Platform walls, stem walls and foundation construction as well as underground utilities are on-going for the Train Wash Facility. Cable trough installation is progressing in the yard as well as the installation of signal and train control conduits. Installation of rail is ongoing, including contact rail and pre-curved rail. Emergency generator and switchgear installation is complete for the MOW and OSB. Roofing, siding, interior partitions, and utility service rough-in work is in process for the OSB, MOW and WTB, as well as mechanical, electrical and plumbing installations. Overall, this contract is progressing per plan with substantial completion in April 2016. (See Section 4.2.D for details)

Kamehameha Highway Guideway (KHG) Contract

Construction of the drilled shafts has moved to the balanced cantilever area in order to maintain progress while HECO clearance issues are resolved. Discussions with HECO are being held at an elevated level to resolve concerns about horizontal/vertical clearances and HECO schedule certainty. Both of the issues may have an impact on the overall schedule. HART continues to monitor KIWC production rates as it relates to potential schedule impacts, measuring against the revised baseline schedule KIWC submitted in December of 2014. HART and KIWC continue to work together to explore delay mitigation measures including alternate MOT scenarios and modified working hours that would balance MOT and noise impacts to the community. Per KIWC's progress schedule, as submitted with the application for payment, the contract is seven months behind schedule. (See Section 4.3.A for details)

Airport Section Utilities Construction Contract

The Airport Section Utilities Construction contract is currently behind schedule, due to previous Navy right of entry issues. ITS system and various duct bank installations are current activities occurring in the field. Water and sewer line relocations are ongoing along Kamehameha Highway, but are being monitored for impacts with Navy ROE issues; HART recently was granted access to Navy ROE. (See Section 4.4.B for details)

Airport Seven Piers Construction Contract

The Airport Seven Piers construction work, including final paving and concrete curbs, was completed on April 17. Project Substantial Completion inspection was performed on April 22, 2015; two days ahead of the Contract Substantial Completion. Hawaiian Dredging Construction Company/Condon-Johnson & Associates (HDCC/CJA) completed all punch list items on May 2, 2015 and have demobilized from the work site. Contract Closeout is currently in progress. (See Section 4.4.C for details)

2 OVERALL PROJECT PROGRESS AND FINANCIALS

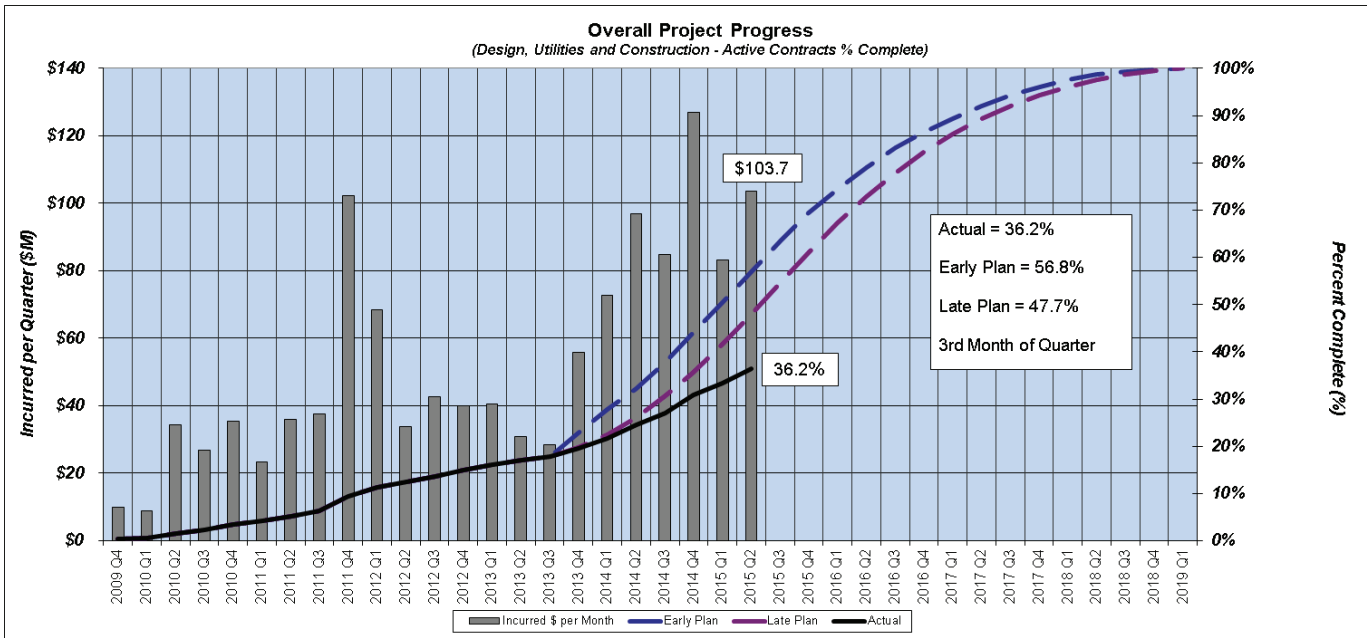
2.1 Project Progress (data as of June 26, 2015)

All progress charts reflect early program expectations regarding the award and execution of western stations and eastern guideway work. Both contracts have been rescheduled to later dates and once the overall schedule is rebaselined, the cost curves will be revised.

Note:

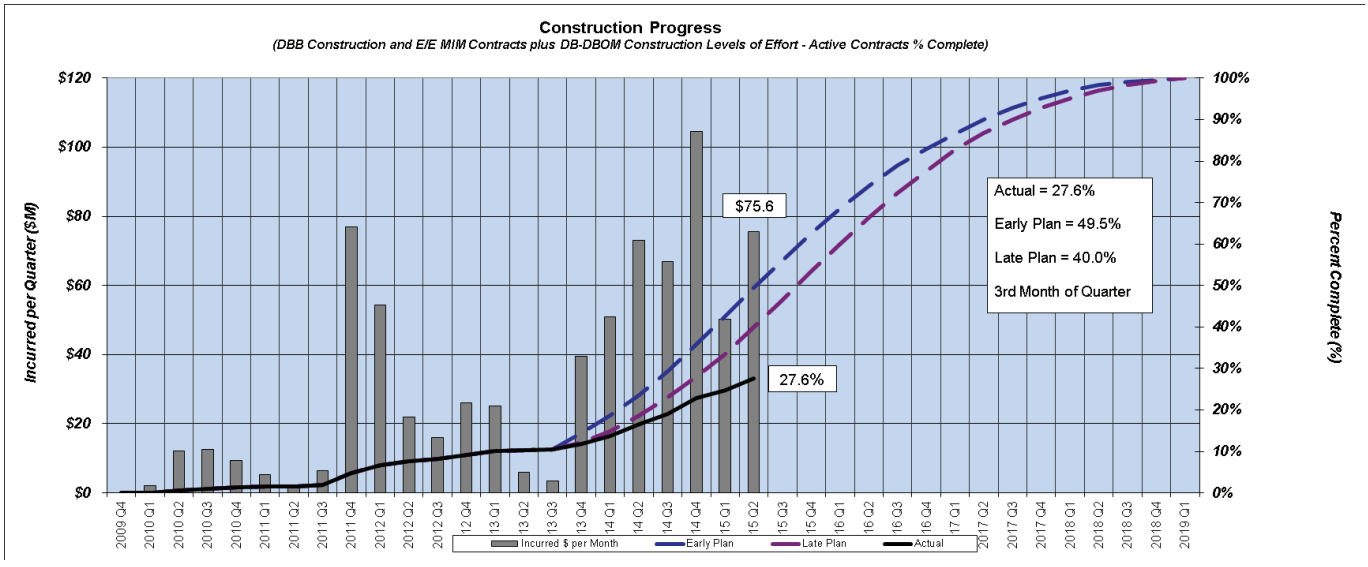
- Actual = Actual cost of work performed, based on invoiced-to-date amount.
- Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
- Late Plan = Latest dates activities can begin and finish and not have an impact on completion date, based on logic and durations used in the schedule.

Figure 1. Overall Project Progress (% Complete)



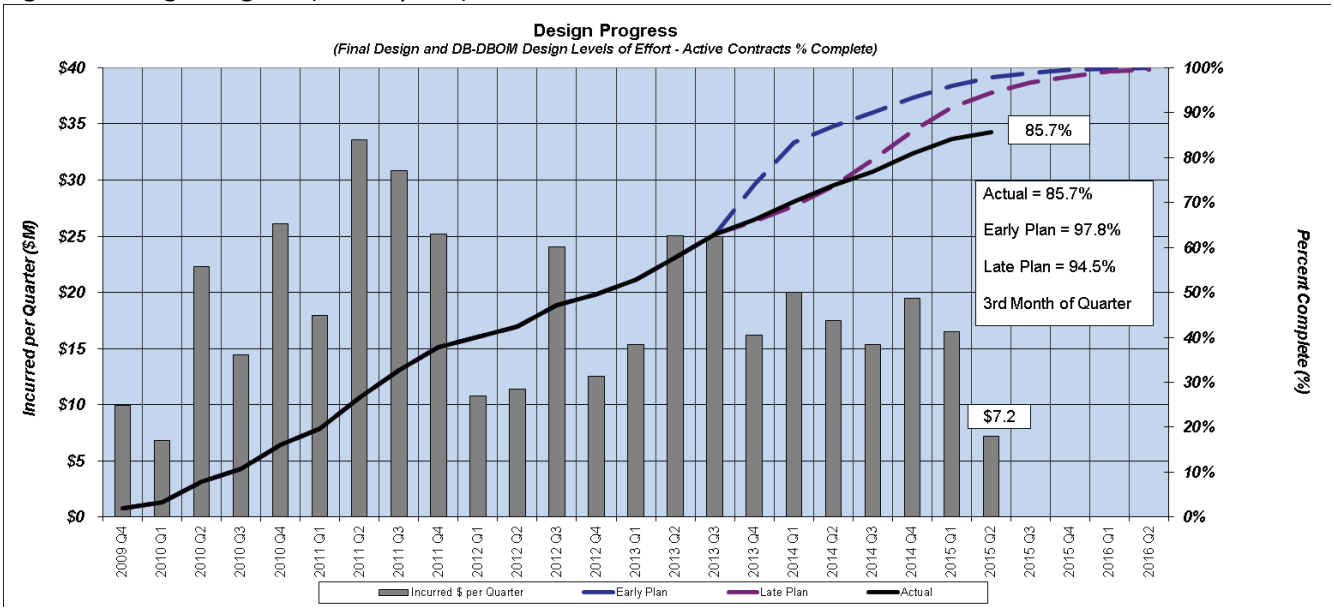
At present "overall" project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM design levels of effort), not including City or non-design consultant labor. Overall Project Progress reflects all project elements as budgeted.

Figure 2. Construction Progress (% Complete)



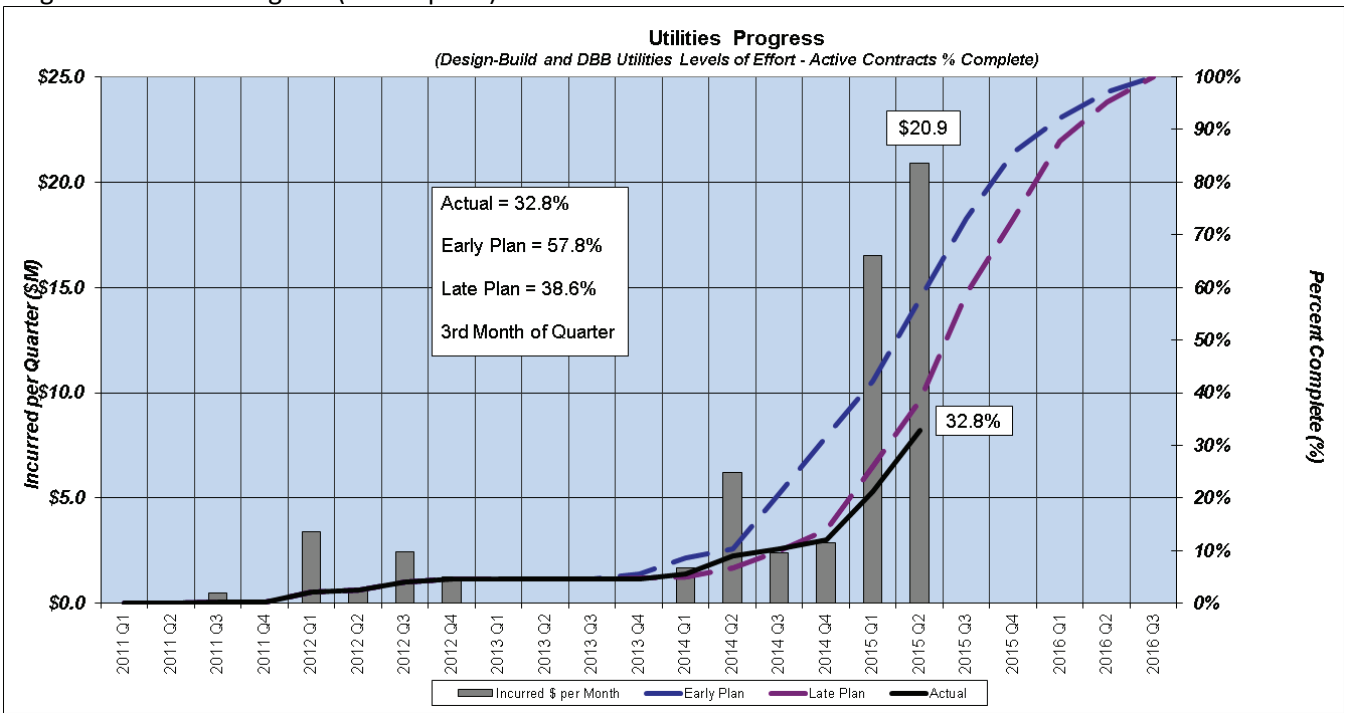
Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort, not including consultant construction engineering and inspection (CE&I) services.

Figure 3. Design Progress (% Complete)



Overall design progress is based on the weighted average progress of the individual FD contracts and the design levels of effort of the DB and DBOM construction contracts, not including City or non-design consultant labor.

Figure 4. Utilities Progress (% Complete)



Overall utilities progress is based on the weighted average progress of the DB and DBB utilities levels of effort.

2.2 Project Budget (data as of June 26, 2015)

Total Incurred Cost = $1,581.1M
(previous report = $1,538.9M)

- FFGA Project Budget = **$5,121.7M**
  - Current Project Budget - $4,446.9M
  - Current Project Contingency - $501.7M
  - Project Finance Charges - $173.1M

- Total Incurred Cost = **$1,581.1M** (35.6% of current project budget)
  - June 2015 Incurred Cost = $42.2M

2.3 Project Contingency (data as of June 26, 2015)

Note: Contingency management and cost contingency details, including a breakdown of Project contingency drawdowns, are discussed in further detail in Appendix B.

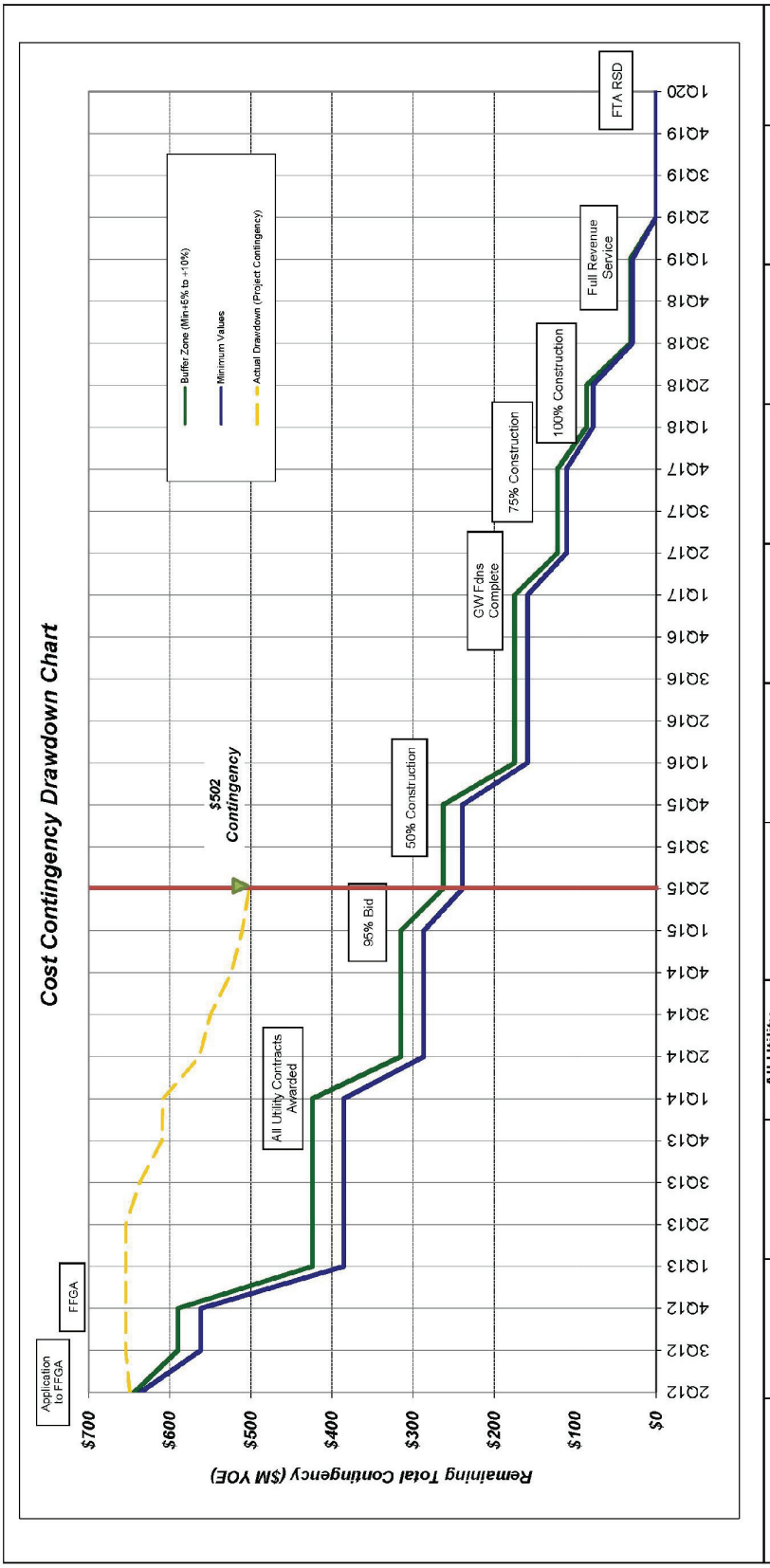
Current Contingency Balance = $501.7M
(previous report = $509.8M)

- Current Project Contingency Balance = **$501.7M**
  - Contingency drawdown to date - $141.9M (22.0% of baseline project contingency budget)
  - $8.1M contingency drawdown during June 2015. Please see Appendix B for more details.

Figure 5. Project Contingency Budget

Project Contingency Budget		
Contingency	**SCC Code**	**Budget ($M)**
Unallocated Contingency	90.01	$101.9
Allocated Contingency	90.02	$540.1
Allowances	90.03	$1.6
Baseline FFGA Project Contingency Budget	***90.01 - 90.03***	***$643.6***
Contingency drawdown through April 2015 Report	90.01 - 90.03	($133)
Contingency drawdown May 2015 Report	90.01 - 90.03	($.2)
Contingency drawdown June 2015 Report	90.01 - 90.03	($.6)
Contingency drawdown July 2015 Report	90.01 - 90.03	($8.1)
Contingency drawdown to date	90.01 - 90.03	($141.9)
Current FFGA Project Contingency	***90.01 - 90.03***	***$501.7***

Figure 6. Draft Cost Contingency Drawdown Chart



	Application to FFGA	FFGA	All Utility Contracts Awarded	95% Bid	50% Construction	GW Fdns Complete	75% Construction	100% Construction	Full Revenue Service	FTA RSD	
	2Q12	4Q12	1Q14	1Q15	4Q15	1Q17	4Q17	2Q18	1Q19	1Q20	
Buffer Zone (Min+5% to +10%)	$644	$590	$424	$315	$263	$175	$122	$86	$32	$0	
Minimum Values	$636	$562	$385	$287	$239	$159	$111	$78	$29	$0	

Note: Contingency management and cost contingency details, including a breakdown of Project contingency drawdowns, are discussed in further detail in Appendix B.

2.4 Project Funding (data as of June 26, 2015)

Figure 7. Planned vs. Received Project Funding

Planned vs. Received Project Funding				
Funding Source	*Pre-FFGA Project*[1]	FFGA Project Period		Total Project
	2007 - 2009 Actuals Received	Planned[2] ($YOE M)	2009 - Present Actuals Received	2007 - Present Actuals Received
	[A]		[B]	[C] = A +B
Beginning Project Cash Balance[3]	*0*	**298**	298	**298**
Interest Income on Cash Balance	*7*	**3**	2	**9**
FTA Section 5309 New Starts Revenue[4]	*0*	**1,550**	412	**412**
FTA Section 5307 Formula Funds	*0*	**210**	0	**0**
ARRA Funds	*0*	**4**	4	**4**
Net General Excise Tax (GET) Surcharge revenues FY2010-FY2023	*378*	**3,291**	1091	**1,469**
Total	***385***	**5,356**	**1,807**	**2,192**

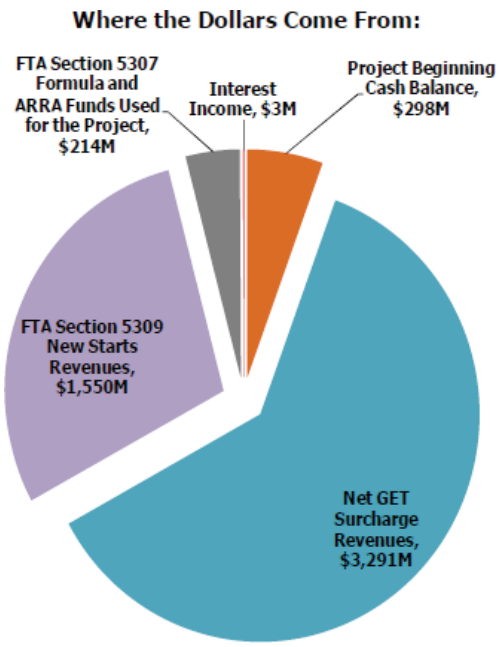
[1] GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE

[2] FFGA Financial Plan, Table A-1 *Capital Plan Cash Flows* .

[3] Beginning Project Cash Balance at Entry into Preliminary Engineering (PE) on October 16, 2009 (the FFGA Project start date) = GET, investment and miscellaneous income minus pre-PE expenditures.

[4] New Starts Funds Obligated Through Federal Fiscal Year 2014 Totals $806.3 Million

Figure 8. Project Funding Sources (YOE $M)



Source: FFGA Financial Plan, p. 2-1

- General Excise Tax (GET) Surcharge (data as of June 26, 2015)
  - $1,091M = amount received since the Project's entry into FTA's Preliminary Engineering phase of project development.
    - $1,122M = Projected Net GET Surcharge Revenue for FYs 2010-4Q 2015, as stated in FFGA Financial Plan (Table A-1 *Capital Plan Cash Flows*)
    - GET receipts are currently running 3% short of projections to date, or $31M behind.
    - $31M shortfall is approximately 0.9% of the total GET surcharge projections per the FFGA Financial Plan of $3.291B.
  - $0M = GET surcharge received in June 2015.

Total Cash Received Since PE = $1,807M
(previous report = $1,796M)

GET Received Since PE = $1,091M
(previous report = $1,091M)

GET Received Since 2007 = $1,469M
(previous report = $1,469M)

- Full Funding Grant Agreement (FFGA)
  - $10.3M = New Starts drawdown processed in June 2015.
- The §5307 funds for the Project, per the Financial Plan, are $210M.

Figure 9. New Starts Drawdown by Federal Fiscal Year (data date as of June 26, 2015, per the FTA TEAM website)

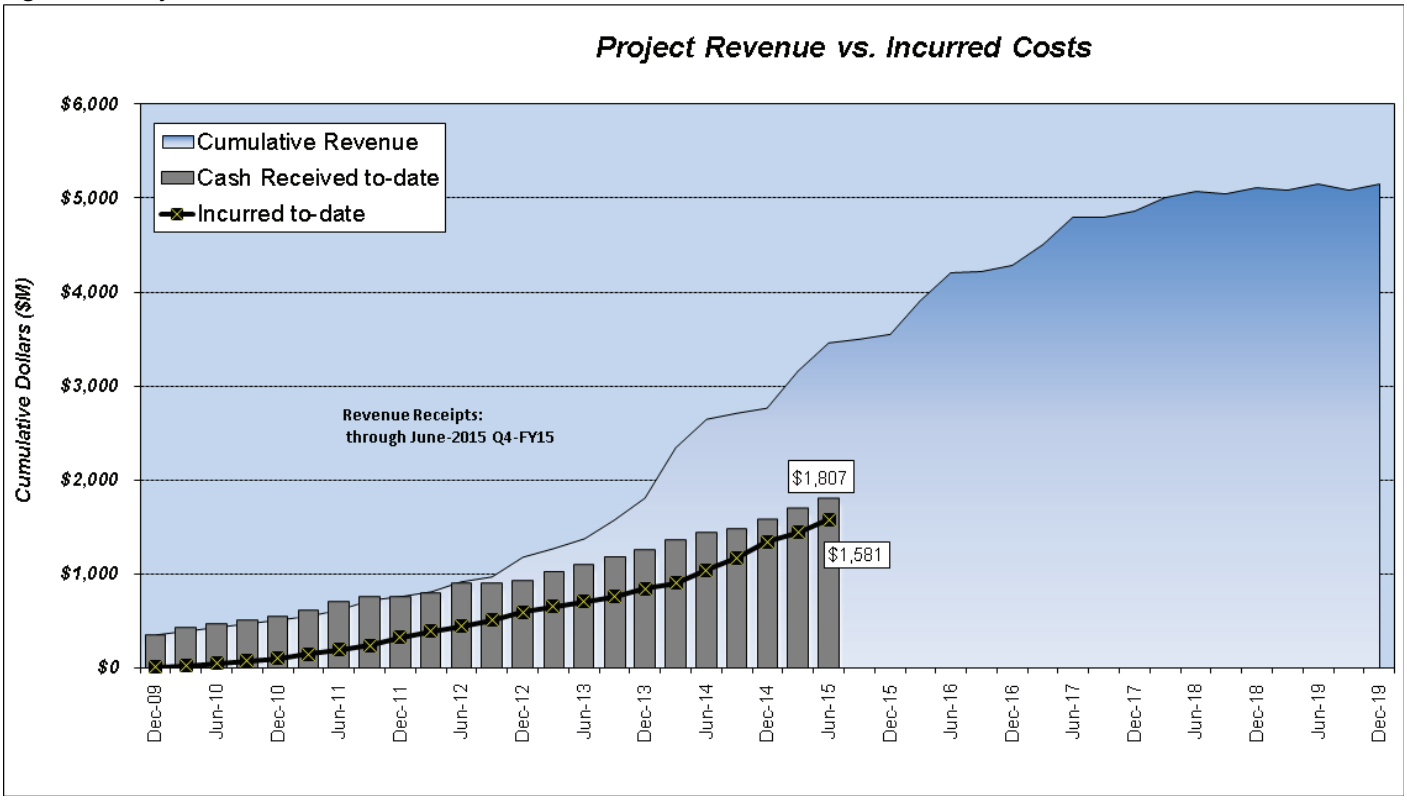
New Starts Grant Information by Federal Fiscal Year				
Federal Fiscal Year Allocation	Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash flow
2008	$15,190,000	$15,190,000	$0	
2009	$19,800,000	$19,800,000	$0	
2010	$30,000,000	$30,000,000	$0	
2011	$55,000,000	$55,000,000	$0	$20,607,242
2012	$200,000,000	$200,000,000	$0	$99,382,758
2013	$236,277,358	$91,516,631	$144,760,727	$258,280,277
2014	$250,000,000	$0	$250,000,000	$441,719,724
2015 (pending)	$250,000,000	$0	$250,000,000	$250,000,000
2016 (pending)	$250,000,000	$0	$250,000,000	$250,000,000
2017 (pending)	$243,732,642	$0	$243,732,642	$230,010,000
Total	**$1,550,000,000**	**$411,506,631**	**$1,138,493,369**	**$1,550,000,000**

2.5 Project Revenue and Costs

(data as of June 26, 2015)

Ending Cash Balance 6/30/15 = $293.0M
(previous report = $327.3M)

Figure 10. Project Revenue versus Incurred Costs



Planned Funding levels as per the June 2012 FFGA Finance Plan
Data date for Revenue & Incurred Cost = June 26, 2015

Figure 11. Cash Balance Summary

JUNE 30, 2015 CASH BALANCE SUMMARY		
	JUNE	YTD Cumulative
Beginning Cash Balance	327,344,756	441,011,319
Expenditures:		
Operating Expenditures	(1,909,194)	(16,147,106)
Capital Expenditures	(42,790,284)	(508,808,372)
Expenditures Total:	(44,699,478)	(524,955,478)
Receipts:		
GET Surcharge	0	220,793,293
FTA Drawdown	10,276,116	155,546,605
Interest	27,319	239,997
Other (rental, refunds, copy fees, etc.)	62,109	375,088
Receipts Total:	10,365,544	376,954,982
Ending Cash Balance 06/30/15	**293,010,823**	**293,010,823**

Note: Project Cost Reports can be found in Appendix C.

3 SCHEDULE

(data as of June 26, 2015)

OVERVIEW

- The MPS Summary schedule has been updated with the latest end date of Full Opening moving to December 2019, as detailed in last month's Schedule narrative.

- H2R2 Ramp (DBB-385) and FHSG (DBB-271) contractor schedules will be added to this report as soon as baseline schedules are accepted by HART. Until accepted contractor schedules become available, placeholder schedules spanning the contract dates are displayed in the contract sections of this report.

- HART continues to closely monitor, review and manage all active construction packages. Previously reported delays continue to be addressed by the project teams. See contract pages for further details.

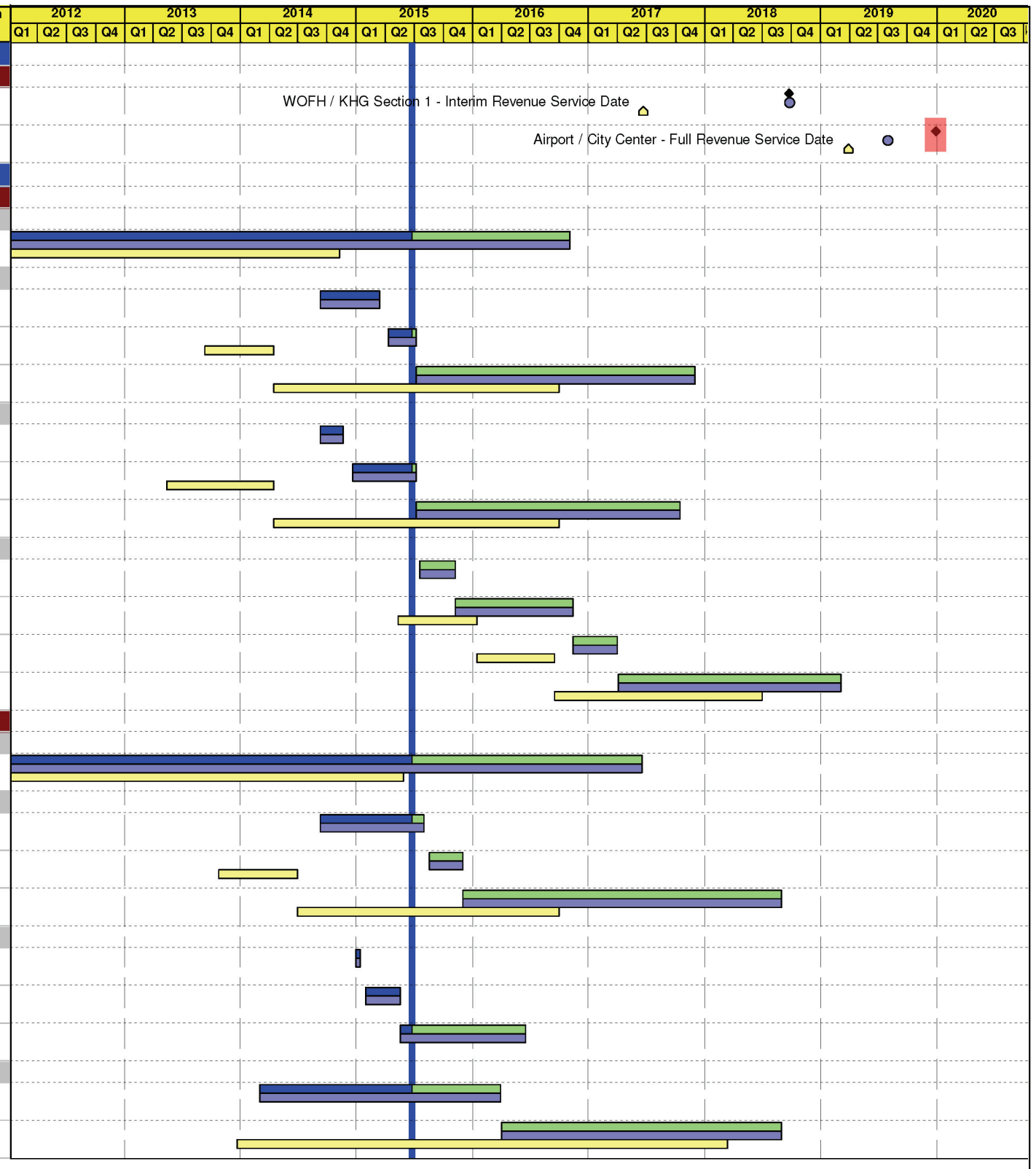
KEY ISSUES

- WOFH and KHG guideway construction contractor progress is behind approved planned schedules.

- Right-of-way acquisition, third-party interface and utility relocations continue to be areas of concern for program completion.

Figure 12. HRTP Master Project Schedule Summary (MPSS)
The MPSS is statused against the FFGA Baseline MPS. The baseline and actual/planned durations of each contract are displayed for comparison.

Activity ID	Activity Name	Type	Current Start	Current Finish
KEY DATA				
MILESTONES				
A1030	WOFH / KHG Section 1 - Interim Revenue Service Date	M		24-Sep-18*
A1040	Airport / City Center - Full Revenue Service Date	M		31-Dec-19
CONTRACTS - DESIGN & CONSTRUCTION				
WEST OAHU / FARRINGTON HIGHWAY (WOFH) - SECTION 1				
WOFH Guideway & Utilities				
A1050	SUMM: DB-120 - WOFH Guideway - Design & Construction (Design-Build)	DB	01-Dec-09 A	01-Nov-16
West Oahu Station Group (WOSG)				
A1430	West Oahu Station Group - Redesign	D	10-Sep-14 A	16-Mar-15 A
A1350	West Oahu Station Group - Bid & Award	A	13-Apr-15 A	07-Jul-15
A1360	West Oahu Station Group - Construction	C	08-Jul-15	30-Nov-17
Farrington Hwy Station Group (FHSG)				
A1370	Farrington Hwy Station Group - Redesign	D	10-Sep-14 A	20-Nov-14 A
A1380	Farrington Hwy Station Group - Bid & Award	A	19-Dec-14 A	07-Jul-15
A1390	Farrington Hwy Station Group - Construction	C	08-Jul-15	15-Oct-17
UH West Oahu Park n Ride & Ho`opili Station Finishes				
A1090	SUMM: FD-600 UH West Oahu Park & Ride - Procurement	D	20-Jul-15	08-Nov-15
A1100	SUMM: FD-600 UH West Oahu Park - Design	D	09-Nov-15	13-Nov-16
A1110	SUMM: DBB-600 UH West Oahu Park & Ride - Bid & Award	A	14-Nov-16	02-Apr-17
A1120	SUMM: DBB-600 UH West Oahu Park & Ride - Construction	C	03-Apr-17	04-Mar-19
KAMEHAMEHA HIGHWAY (KH) - SECTION 2				
Kamehameha Highway Guideway & Utilities				
A1130	SUMM: DB-320 - KHG Guideway - Design & Construction (Design-Build)	DB	12-Jun-11 A	18-Jun-17
Kamehameha Highway Stations				
A1400	Kamehameha Hwy Station Group - Redesign	D	10-Sep-14 A	31-Jul-15
A1410	Kamehameha Hwy Station Group - Bid & Award	A	18-Aug-15	30-Nov-15
A1420	Kamehameha Station Group - Construction	C	01-Dec-15	31-Aug-18
Pearl Highlands Ramp H2R2				
A1180	Pearl Highlands Ramp H2R2 - Redesign	D	01-Jan-15 A	14-Jan-15 A
A1440	Pearl Highlands Ramp H2R2 - Bid & Award	A	30-Jan-15 A	18-May-15 A
A1450	Pearl Highlands Ramp H2R2 - Construction	C	19-May-15 A	17-Jun-16
Pearl Highlands Parking Structure & Ramps				
A1150	SUMM: Pearl Highlands Parking Structure & H2 Ramps - DB Procurement	D	03-Mar-14 A	31-Mar-16
A1160	SUMM: DB-275 - Pearl Highlands Pking Structure & H2 Ramps - Design & Construction (Design Build)	DB	01-Apr-16	01-Sep-18



HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

FFGA Baseline
May 2015 Update
Remaining Work
Actual Work
FFGA Baseline Milestone
May 2015 Update Milestone
Milestone

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Honolulu Rail Transit Project
June 2015 Update
As of: 26-Jun-15

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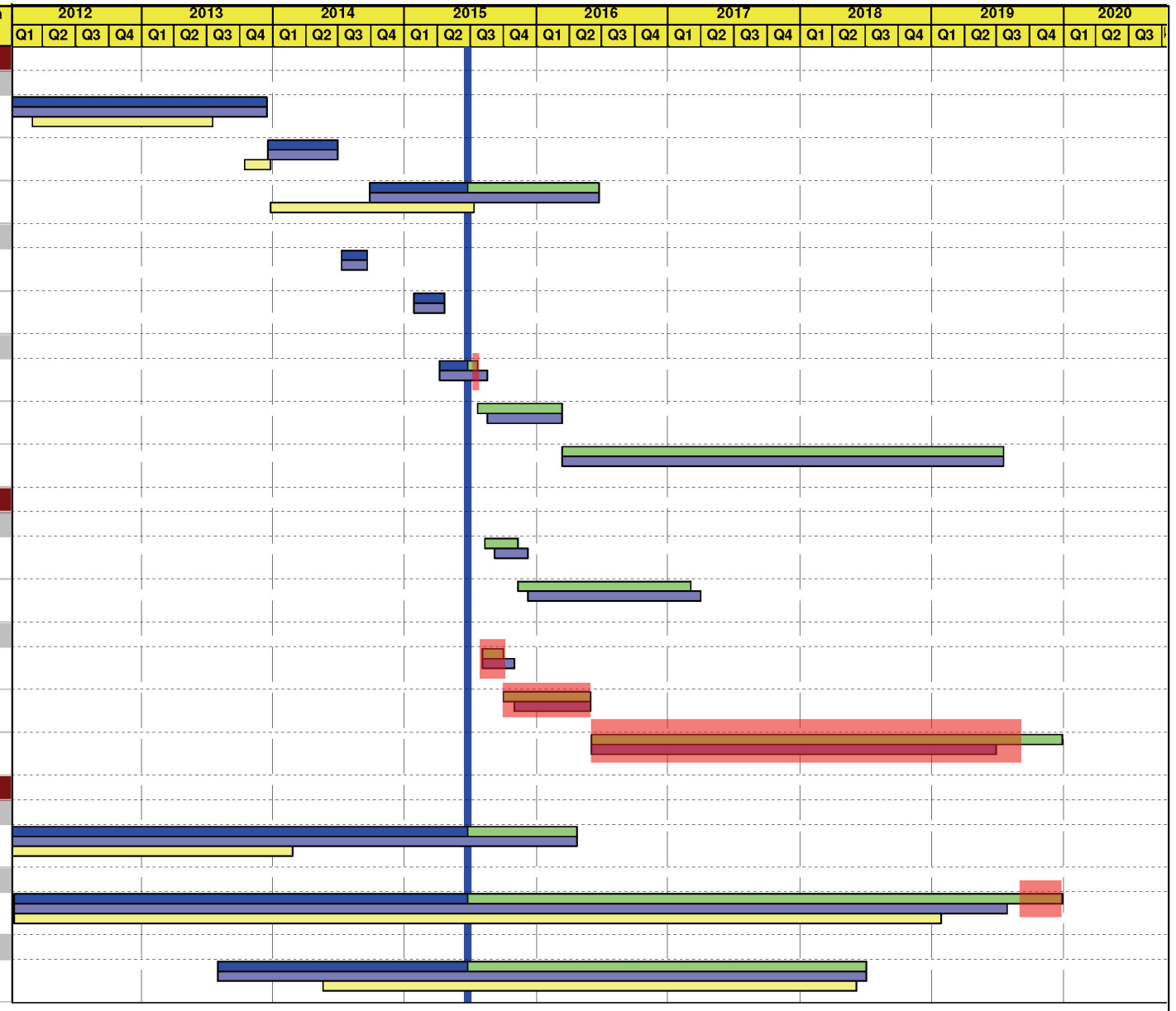
MPS Summary
Design & Construction Contracts

Activity ID	Activity Name	Type	Current Start	Current Finish
AIRPORT - SECTION 3				
Airport Utility Relocation				
A1190	SUMM: FD-430 - Airport Utilities - Design	D	05-Jan-12 A	16-Dec-13 A
A1200	SUMM: Airport Utilities - Bid & Award	A	17-Dec-13 A	30-Jun-14 A
A1210	DBB-505 - Airport Utilities - Construction	C	26-Sep-14 A	24-Jun-16
Airport Guideway 7 Pier Construction				
A1460	Airport Guideway 7-Pier - Bid & Award	A	09-Jul-14 A	18-Sep-14 A
A1470	Airport Guideway 7-Pier - Construction	C	26-Jan-15 A	22-Apr-15 A
Airport Guideway & Stations				
A1480	Airport Guideway & Stations - Design Build Procurement Part 1	A	07-Apr-15 A	21-Jul-15
A1490	Airport Guideway & Stations - Design Build Procurement Part 2	A	22-Jul-15	13-Mar-16
A1500	Airport Guideway & Stations - Design & Construction	DB	14-Mar-16	19-Jul-19
CITY CENTER (CC) - SECTION 4				
City Center Utility Relocations				
A1510	City Center Utilities & Civil Work - Bid & Award	A	12-Aug-15	12-Nov-15
A1520	City Center Utilities & Civil Work - Construction	C	13-Nov-15	04-Mar-17
City Center Guideway & Stations				
A1530	City Center Guideway & Stations - Design Build Procurement Part 1	A	04-Aug-15	01-Oct-15
A1540	City Center Guideway & Stations - Design Build Procurement Part 2	A	02-Oct-15	31-May-16
A1550	City Center Guideway & Stations - Construction	DB	01-Jun-16	31-Dec-19
PROJECT WIDE - ALL SECTIONS				
Maintenance & Storage Facility (MSF)				
A1320	SUMM: DB-200 - MSF - Design & Construction (Design-Build)	DB	25-Jul-11 A	21-Apr-16
Core Systems				
A1330	SUMM: DBOM-920 - Core Systems - Design & Construction	DB	13-Jan-12 A	31-Dec-19
Elevators & Escalators				
A1340	SUMM: MI-930 - Elevators and Escalators - Design, Manufacture, Install, & Test	DB	02-Aug-13 A	05-Jul-18



Program Critical Path

HONOLULU AUTHORITY for RAPID TRANSPORTATION

FFGA Baseline
May 2015 Update
Remaining Work
Actual Work
FFGA Baseline Milestone
May 2015 Update Milestone
Milestone

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Honolulu Rail Transit Project
June 2015 Update
As of: 26-Jun-15

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MPS Summary
Design & Construction Contracts

4 CONTRACT STATUS

Core Systems Contract (Section 4.1.A)

OVERVIEW

- Vehicle Aluminum Carshell Manufacturing is moving forward in Reggio Calabria, Italy – the first carshell is in transit to California for final assembly.
- The MSF Traction Power Substation arrived in Honolulu; AHJV finalizing transit logistics and lift to the MSF site.
- Progressing with sub-system testing and design verification activities.
- Yard Control Bungalow work is underway.

KEY ISSUES

- Revised station and guideway Construction Access Milestone (CAM) dates to the CSC are affecting substantial completion of Core Systems Contractor's work. HART and the CSC will evaluate the full extent of the impact once we have clarity in the expected CAM dates. This issue is being addressed in RFCR # 18.
- Vehicle Production and Testing is an on-going monitored risk. Carshell production experienced some challenges and delays in the initial assembly of key components that affected the completion and shipment of the first carshell. Final Assembly of the first vehicle can have similar challenges. HART and CSC will continue to work together to plan and respond to the issues as they arise.

Fare Collection System (Section 4.1.C)

OVERVIEW

- Negotiations with the highest scored bidder for the Fare Systems Technical Consultant will begin the week of August 17. Scope of work is currently being finalized.
- MOU and Cooperative Procurement Agreement for the Fare Systems procurement signed. RFP is under review by City Procurement and COR. Release date is anticipated by mid-August 2015.

KEY ISSUES

- Releasing the RFP as soon as possible.
- Ensuring Fare System Technical Consultant is on board to support Fare System Vendor negotiations.

West O'ahu Farrington Highway Guideway (Section 4.2.A)

OVERVIEW

- Leeward Community College (LCC) Portables and Parking Lot Change Order –A grading permit and a full construction ROE is needed in order for KIWC to begin work at the LCC Station area. KIWC has developed plans which were submitted to the Honolulu Department of Planning and Permitting (DPP), LCC and HART for review. Design development and review of the Access structure is on-going with KIWC and HART. The construction ROE was issued by the end of July 2015. The anticipated construction start date is in August 2015, and the first portable delivery is scheduled in October 2015.
- Balanced Cantilever System (BCS) Form Advancement – BCS construction is progressing. Pier tables and segments for Piers 253 through 256 are in various levels of completion and segment casting and stressing is proceeding in both eastward and westward directions from Piers 253, 254 and 255. The closure segment, between Piers 253 and 254, was completed and Pier Table 256 will be completed shortly.
- Span by Span Advancement – Work on the left side single track spans around East Kapolei Station has begun as KIWC begins the assembly of the truss. Erection of the left side single spans will complete all the spans on the western end of the alignment. Spans have been erected over the Fort Weaver Overpass/Kunia Road and are progressing towards West Loch Station. A third heading is being erected in the area around the Pearl Highlands Station to erect segments through the eastern end of the alignment.

KEY ISSUES

- Span 17 and Span 105 Damage and Repair (for additional detail, see 4.2.A Key Quality Issues)
- Drilled Shaft Quality (for additional detail, see 4.2.A Key Quality Issues)
- Noise and Light Complaints on Drilled Shaft Operations at Night (for additional detail, see 4.2.A Key Issues)

Maintenance and Storage Facility (Section 4.2.D)

OVERVIEW

- Interior and exterior painting is on-going at the MOW, OSB and WTB. De-stressing of the storage and maintenance tracks continues. Platform walls, stem walls and foundation construction as well as underground utilities are being placed for the Train Wash Facility. Cable trough installation is progressing in the yard as well as the installation of signal and train control conduits. Installation of rail is continuing, including contact rail and pre-curved rail. Emergency generator and switchgear installation is complete for MOW and OSB. Roofing, siding, interior partitions, and utility service rough-in work is on-going for the OSB, MOW and WTB, as well as mechanical, electrical and plumbing installations.

KEY ISSUES

- HECO interface with installation of incoming power will be required to support commissioning of building systems and train maintenance including bridge cranes and the wheel lathe. A Memorandum of Understanding was executed by HART. Preparatory work for HECO to install cables has been completed, including protective installations and the main switchgear for the OSB and the MOW.
- Coordination with the abutting WOFH main line contract for completion of site access in the east and west yards, including rail, vehicular access and utility interconnection.

Kamehameha Highway Guideway (Section 4.3.A)

OVERVIEW

- Construction of Drilled Shafts – Once the HECO conflict in the area of Acacia Road was resolved, KIWC mobilized the LB-36 from the balanced cantilever area to drill. KIWC is currently working with HECO to resolve conflicts near Kuleana Road which will have to be accomplished prior to KIWC installing the shaft access in that area. Drilled shafts are being constructed at an accelerated rate.
- Relocation of Utility Poles – Relocation of the utility poles at Poles 50 (Waimalu Park Apartments) and 51 (Burger King) are pending finalization of the ROE with the property owners and utility companies.
- HDOT betterments – KIWC has been issued RFCRs to incorporate HDOTs betterments into the design and construction. HART is awaiting cost proposals in order to finalize HDOT concurrence and draft agreements for each individual betterment.
- Balanced Cantilever System (BCS) – KIWC has begun drilling shafts at the BCS and anticipates superstructure construction to begin in February 2016.

KEY ISSUES

- Curb/Gutter and Sidewalk construction – HART continues to monitor the installation of curb/gutters and sidewalks for conformance. Several sections have required removal and replacement.
- Drilled Shaft CSL Results – KHG continues to have CSL results that exceed the 10% velocity reduction, but to date most have been resolved without any repairs required.
- Noise Complaints – HART is working with KIWC to respond to, and mitigate, noise complaints along the alignment. Noise monitoring stations have been installed to assist in the monitoring of the construction activities and work hours have been adjusted accordingly.

Airport Utilities (Section 4.4.B)

OVERVIEW

- Utility relocations along Kamehameha Highway continue for DBB-505 with the installation of the sewer, water, and telecom lines along Kamehameha Highway. License Plate Reader (LPR) camera installations are nearing completion. Conduit installation for lighting relocation has been completed at Keehi Lagoon Park.
- HART received the Right of Entry from the Navy on June 22, 2015.

KEY ISSUES

- Noise variance permit for night work is pending DOH approval.

Airport Section Guideway Seven Pier Construction (Section 4.4.C)

OVERVIEW

- Project Substantial Completion occurred on April 22, and punch list items were completed on May 2, 2015.
- Contract Closeout is currently in progress.

KEY ISSUES

- HART is processing cost estimates submitted by HDCC/CJA JV for:
  - Change proposal for temporary fill at Piers 551R and 550.
  - Double handling of drilled spoils.
  - Additional concrete core samples at Pier 551R.
- HDCC/CJA JV is to submit the following additional costs RFC:
  - Force Account Sheets for Pier 548 and 550 regarding utility conflicts.
  - Cost Proposal for extra surface work (concrete curbs and paving) at Piers 546, 547, 550, 551R and 552R due to lowering of CMP casings as instructed by RFI 016 response.
- HDCC/CJA JV has the following items to submit for Contract Closeout:
  - Red line of As-Built Drawings.
  - Complete Certified Payrolls data to LCP Tracker.
  - Submit HDCC/CJA JV daily reports into CMS.
  - Provide Release of Liens.
  - Submit final DBE forms.
  - Submit document submittals to closeout BMP and Environmental requirements.
  - Submit final invoice.

Contracts in Procurement

OVERVIEW

- Recent Award of Contract:
  - The Farrington Highway Stations Group (FHSG) construction contract was awarded on June 10, 2015, to Hawaiian Dredging Construction Company, Inc. in the amount of $78,999,000.
  - The West O'ahu Stations Group (WOSG) construction contract was awarded on July 1, 2015, to Nan, Inc. in the amount of $56,088,470.
- Active Procurements:
  - Responses to the Fare Collection Technical support Request for Qualifications solicitation were received and are being evaluated. The contract is expected to be awarded upon completion of negotiations which is estimated to be in mid to late August.
  - Responses to the Construction Engineering and Inspection (CE&I) II Request for Qualifications were received and are being evaluated. The contract is expected to be awarded upon completion of negotiations which is estimated to be in early to mid-August.
  - The due date for proposals for RFP Part 1 of the Airport Guideway and Stations was extended by three weeks. The due date for submission of RFP Part 1 proposals is now Aug. 11, 2015 (previously, July 21, 2015). RFP Part 2 will be issued on Sept. 1, 2015 (previously, Aug. 18, 2015). There is no significant change to the anticipated award date.
  - A Request for Proposal was issued for a Section 106 Programmatic Agreement Project Manager (Kāko'o "II") on June 26, 2015. The proposals were due on July 31, 2015, and an award is anticipated to be made in August 2015.
- Upcoming Procurements:
  - The City Center Guideway and Stations (CCGS) Design-Build package is scheduled for advertisement in August 2015.
  - The Kamehameha Highway Stations Group (KHSG) package is scheduled for advertisement in August 2015.
  - The Fare Systems Contract request for proposals is anticipated for advertisement in August 2015.

KEY ISSUES

- Key Issues and Updates:
  - The Pearl Highlands Parking Structure/Bus Transit Center request for proposals was cancelled on July 1, 2015. An addendum was issued cancelling the solicitation. No protests were filed.
  - The procurement delivery method for City Center Utilities is currently being determined.
  - The sale of one of the members of Ansaldo Honolulu Joint Venture is currently pending.

4.1 System-wide

A. Core Systems Contract (CSC)

Contract No.: DBOM-920
DBOM Contractor: Ansaldo Honolulu Joint Venture (AHJV)
Contract Start Date: January 2012
Contract Substantial Completion: March 2019
Projected Substantial Completion: December 2019

Project Description: Providing rail passenger vehicles, automated train control system, traction electrification system (TES), communication systems, passenger platform screen gates (PSGs), and operation and maintenance of the Project.

Project Overview: The CSC contractor is continuing to progress through Interim Design into Final Design. Qualification and design verification tests are ongoing; completing Closed Circuit Television (CCTV), Access Control, Intrusion Detection and UPS subsystem design verifications tests. Construction interface with KKJV is ongoing, with AHJV on site working on the Yard Control Bungalow foundations. In addition, AHJV has shipped the MSF Traction Power Substation (TPSS) and will lift it into place on August 1. The first passenger vehicle carshell has left the manufacturing facility in Italy and is in transit to the final assembly facility in California. An audit of AHJV's Passenger Vehicle Final Assembly facility was completed. Carshell assembly continues to progress at the Reggio Calabria, Italy facility with the second carshell moving to painting during the third week of July.

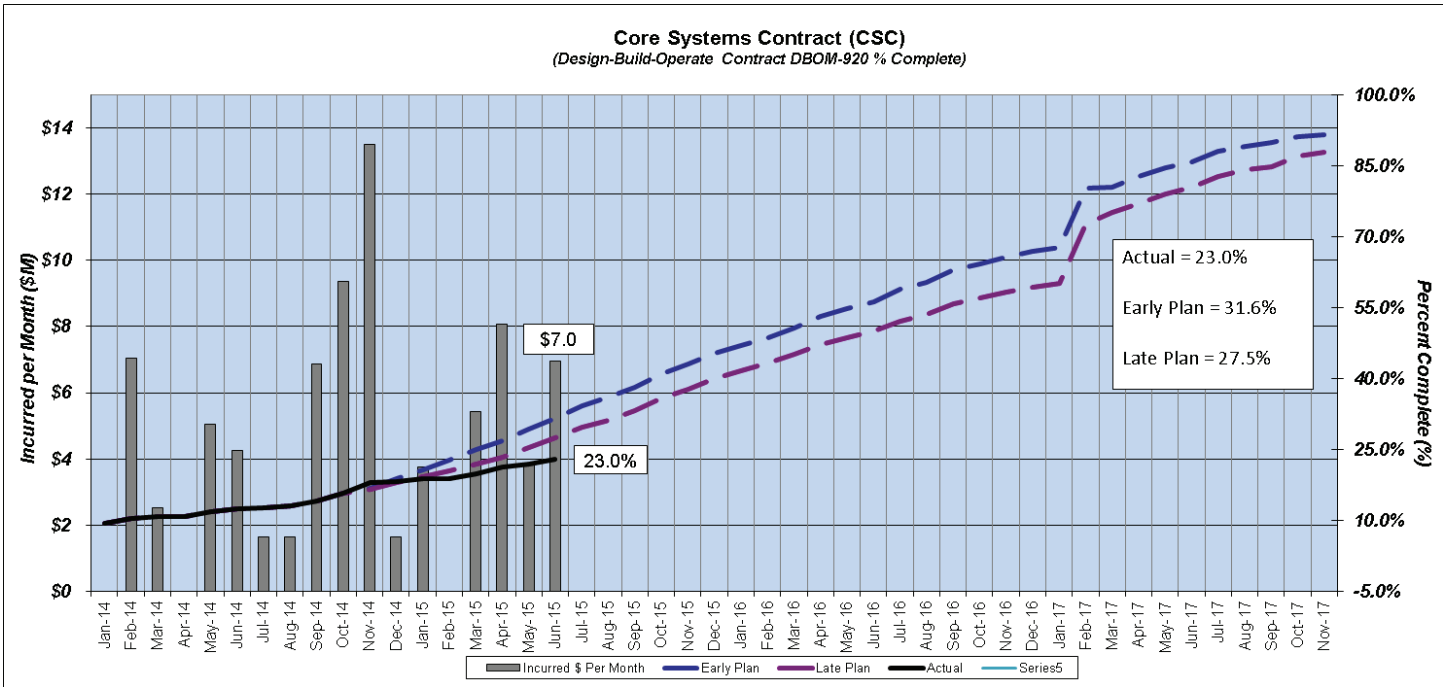
COST INFORMATION:

Original Contract:	$573,782,793	Incurred-to-Date:	$137,031,419
Current Contract Value[1]:	$595,025,837	Incurred in June:	$6,970,680

[1]*Current Contract Value = Original contract value (excluding contingency and $823.6M O&M budget) + executed Change Orders*

Disadvantaged Business Enterprise (DBE) Participation	
Actual DBE Participation:	$129,165
DBE % Attained:	0.029%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$21,243,044**

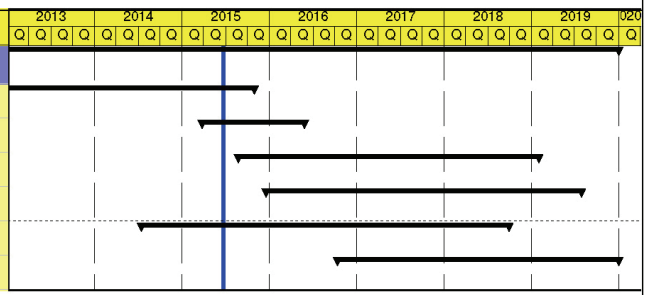


The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

SCHEDULE:

June 2015 Update — Data Date: 26-Jun-15 Printed On: 10-Jul-15 18:35

Activity ID	Activity Name	Start	Finish
	Core Systems & Vehicles (DBOM) Contract	17-Jan-12 A	31-Dec-19
	Core Systems Design	17-Jan-12 A	30-Oct-15
	Core Systems Maintenance & Storage Facility Install	27-Mar-15 A	27-May-16
	Core Systems Guideway Install	24-Aug-15	31-Jan-19
	Core Systems Stations Install	17-Dec-15	31-Jul-19
	Core Systems Vehicles	15-Jul-14 A	28-Sep-18
	Core Systems Local and Integrated Testing	14-Oct-16	31-Dec-19



	Interim Design Submitted Documents	Final Design Submitted Documents	Target Completion Date
Passenger Vehicles	93%	16%	4th Q 2015
Communications	100%	33%	4th Q 2015
ATC/SCADA	88%	93%	4th Q 2015
TES	100%	96%	4th Q 2015
Fire Detection	100%	55%	4th Q 2015
PSG, UPS, MPV	N/A	72%	4th Q 2015

CRITICAL PATH SUMMARY:

- Continue to oversee construction activities with the MSF contractor, CSC installer and On-Call Contractor.
- Passenger Vehicle crews finalized the first carshell.
- Due to the modified CAM dates, the equipment installation at Pearl Highlands and Pearlridge stations are now driving the critical path. Technical discussions are ongoing to mitigate the potential impacts to the Interim and Full Openings.

WORK PROGRESS:

Activities this Month:

- Project-Wide Percent Complete: 23%
- Passenger Vehicle Percent Complete: 27%

Design:

- ATC/SCADA – Documents Received: 27, Documents Returned: 13.
- Communications – Documents Received: 19, Documents Returned: 13.
- Traction Power – Documents Received: 0, Documents Returned: 12.
- Fire Detection – Documents Received: 2, Documents Returned: 2.
- Platform Screen Gates – Documents Received: 5, Returned: 0.
- Passenger Vehicles – Documents Received: 12, Documents Returned: 21.

Manufacturing:

- Performed manufacturing oversight work at the AnsaldoBreda factory in Reggio Calabria, Italy. Work Completed this month: completed the first carshell and finishing the second carshell.
  (For additional details, please see the Vehicle Carshell Progress Tracker in Appendix E.)
- Visited the AnsaldoBreda facility in Pittsburg, CA to conduct the readiness audit.

Testing:

- Conducted First Article Inspection (FAI) on car shell M-001 in Reggio Calabria, Italy.

Look Ahead:

Design:

- Acceptance of Passenger Vehicle Carshell final design (Q3 2015) – Only one document left to accept.
- Completion of ATC/SCADA Final Design for Segment 1 (Q3 2015) - Only four documents are left to be accepted.
- Completion of TES Final Design for Segment 1 (Q3 2015) - Only two documents are left to be accepted.
- Approval of the Yard Control Bungalow design documents (Q3 2015).

Manufacturing:

- Passenger Vehicle Manufacturing – Continue carshell assembly of vehicle # 2 and vehicle # 3 in Reggio Calabria, Italy (ongoing).
- Arrival of the first carshell to the Final Assembly Plant in Pittsburg, CA.
- Second carshell to finalize final cleaning, painting and calibration.

Activities this Month (continued):

- Completed UPS Prototype tests for Electromagnetic Compatibility (EMC), compliance with Underwriters Laboratories (UL) Standards, and Seismic Tests – China and UPS Design Verification Tests.
- Pre-Shipping Inspection Test for Rail Car Mover – Granite Falls, MN.
- Pre-Shipping Inspection Test for Rail Grinder – Granite Falls, MN.
- Pre-Shipping Inspection Test for High Reach Lift Truck– Granite Falls.
- Pre-Shipping Inspection Test for Closed Circuit Television (CCTV) – Honolulu, HI.
- Pre-Shipping Inspection Test for Intrusion Detection – Honolulu, HI.
- Pre-Shipping Inspection Test for Vehicle ATC System Cab racks – Batesburg, SC.

MSF:

- Coordinating work with KKJV, and coordinating follow up work by AHJV and On-Call Contractor.
- Yard conduit installation: On-Call Contractor installation of yard conduit extensions is ongoing. Layout survey occurred in July.
- OSB conduit installation: On-Call Contractor finalizing Public Announcement and Access Control System/Intrusion Detection System (ACS/IDS) conduit at the OSB and the MOW building. Installation of in shop areas to be finalized once access is coordinated with KKJV.
- AHJV is on site – Finished 2 of the 3 cable pits into the Yard Control Bungalow, and is excavating foundation footings for the Yard Control Bungalow.
- AHJV started walk through activities with KKJV for Share Access for the Wheel Truing Building (WTB) and Operations and Servicing Building (OSB).
- MSF Traction Power Substation has arrived in Honolulu and it is scheduled to be lifted on site by August. AHJV is coordinating transit logistics with HDOT.

Look Ahead (continued):

Testing:

- Communication Design Verification OSB System – Italy (September 2015).
- Pre-Shipping Inspection Test for Passenger Information System – Plano, TX (September 2015).
- Pre-Shipping Inspection Test for MSF SCADA Hardware – Pittsburg, PA (August 2015).
- Pre-Shipping Inspection Test for LCC Station SCADA Hardware – Batesburg, SC (September 2015).
- Pre-Shipping Inspection Test for Waipahu Station SCADA Hardware – Batesburg, SC (September 2015).
- Pre-Shipping Inspection Test for West Loch Station SCADA Hardware – Batesburg, SC (September 2015).
- Pre-Shipping Inspection Test for MSF TCCR Equipment – Batesburg, SC (September 2015).
- Pre-Shipping Inspection Test for LCC Station TCCR Equipment – Batesburg, SC (October 2015).
- Pre-Shipping Inspection Test for ATS/SCADA software – Pittsburg, PA (August 2015).
- Design Verifications for Platform Screen Gates – Farmington, CT (October 2015).

KEY ISSUES:

- Revised station and guideway Construction Access Milestone (CAM) dates to the CSC are affecting substantial completion of Core Systems Contractor's work. HART and the CSC will evaluate the full extent of the impact once we have clarity in the expected CAM dates. This issue is being addressed in RFCR # 18.
- Vehicle Production and Testing is an on-going monitored risk. Carshell production experienced some challenges and delays in the initial assembly of key components that affected the completion and shipment of the first carshell. Final Assembly of the first vehicle can have similar challenges. HART and CSC will continue to work together to plan and respond to the issues as they arise.
- 4-Car Train: Negotiations took place on June 26, 2015. The proposed settlement was presented to the HART Board of Directors (BOD) in July, and the credit was approved.
- Nine (9) Month Delay Claim: Negotiations took place on June 26, 2015. The proposed settlement was presented to the HART BOD in July. Approval of the settlement has been deferred to August pending the submittal of additional information to the Board.

QUALITY MANAGEMENT:

- Overall quality of the contract is good.
- Testing and Oversight Activities:

Design Verifications & System Testing		
Subsystem	**Test Completed**	**Date Completed**
Maintenance of Way	Pre-shipment Inspection Rail Car Mover	June 19, 2015
Maintenance of Way	Pre-shipment Inspection Rail Grinder	June 19, 2015
Maintenance of Way	Pre-shipment Inspection High Reach Lift Truck	June 19, 2015
UPS	Prototype, Design Verification, UL Certification, Seismic tests	June 18, 2015
Communications	Pre-Shipment Inspection and Test for Closed Circuit Television	July 16, 2015
Communications	Pre-Shipment Inspection and Test for Access Control and Intrusion Detection	July 13, 2015

Passenger Vehicle - Oversight		
Facility	**Activity**	**Date Completed**
Reggio Calabria, Italy	On-site inspector in place to oversee and report on AnsaldoBreda PV Carshell manufacturing activities	Ongoing
Pittsburg, CA	First carshell in transit	Ongoing

CSC NCR Log			
	TOTAL	**CLOSED**	**OPEN**
AHJV	15	15	0
ASTS	2	2	0
AB	172	114	58
TOTAL	**189**	**131**	**58**

- AnsaldoBreda had previously generated NCRs for each aluminum carshell element with manufacturing issues found during carshell production; primarily at the subassembly supplier (CMC). Corrective actions have been taken for future production, and adjustments are being made to current assembled parts.

B. Elevators and Escalators Manufacture-Install-Maintain (MIM)

Contract No.: MI-930
Contractor: Schindler Elevator Corporation
Contract Start Date: August 2013
Contract Substantial Completion: May 2018
Projected Substantial Completion: The May 2018 completion date will change to a later date predicated on the award of the DB contracts for the east portion of the guideway. The Airport Guideway and Stations has been advertised. The City Center Guideway and Station DB contract part 1 will be advertised in August.

Project Description: Furnish / install / test / maintain all elevator and escalator equipment located at the elevated stations.

Project Overview: Elevator and Escalator equipment design was completed in January 2015. The release to begin manufacturing of the FHSG equipment will be scheduled once an approved construction schedule with the successful contractor has been completed. The West O'ahu Station Group contract has also been awarded and the WOSG equipment will be scheduled once an approved construction schedule has been completed. The Notice to Proceed for both FHSG and WOSG has yet to be issued. The Kamehameha Highway Station Group will be advertised in August 2015 with an anticipated NTP being issued in December 2015.

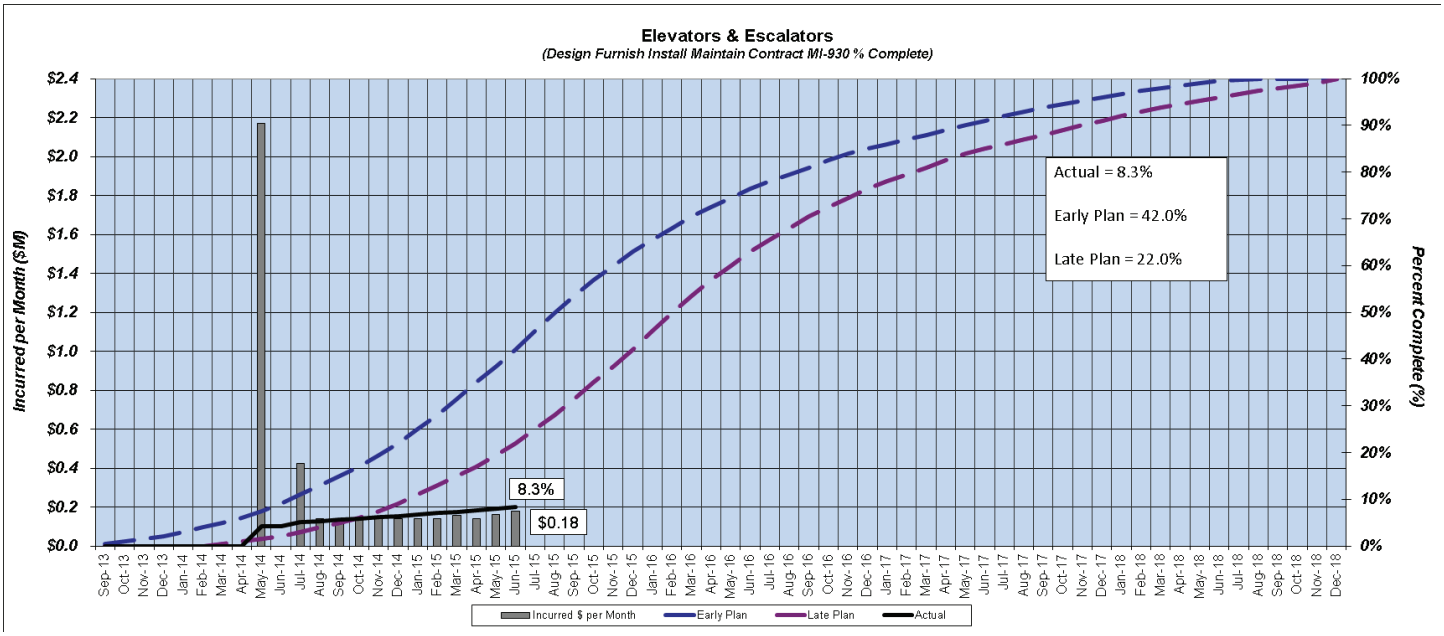
COST INFORMATION:

Original Contract: $50,982,714	Incurred-to-Date: $4,221,508
Current Contract Value[1]: $50,982,714	Incurred in June: $178,495

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**

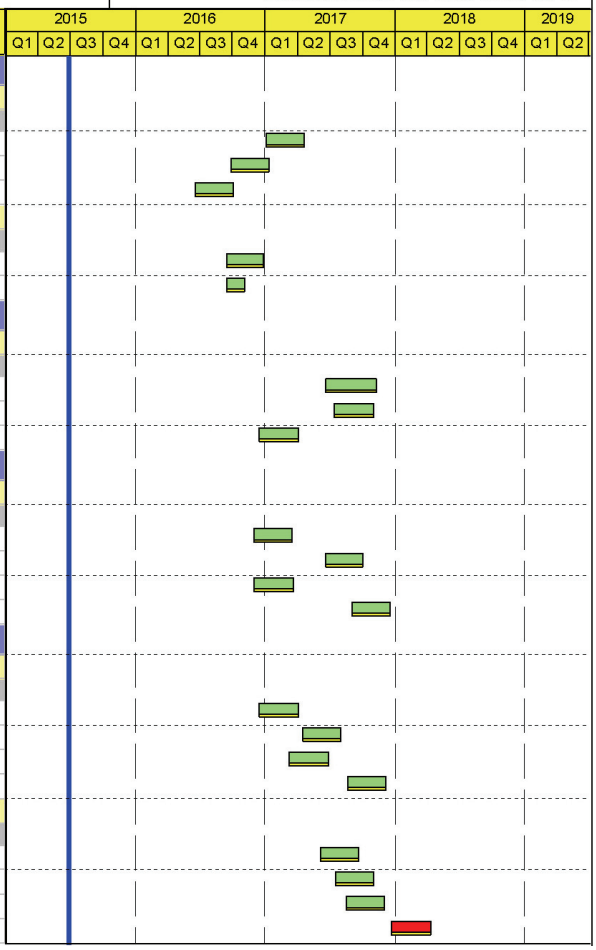


The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

SCHEDULE:

June 2015 Update — Data Date: 26-Jun-15, Printed On: 10-Jul-15

Activity Name	Start	Finish
W. Oahu/Farrington Highway (WOFH) - Section 1	16-Jun-16	18-Apr-17
W. Oahu Station Group	16-Jun-16	18-Apr-17
Construction - W. Oahu Station Group	16-Jun-16	18-Apr-17
East Kapolei Station	04-Jan-17	18-Apr-17
UH West Oahu Station	26-Sep-16	10-Jan-17
Ho'opili Station	16-Jun-16	04-Oct-16
Farrington Highway Station Group	12-Sep-16	27-Dec-16
Construction - Farrington Highway Station Group	12-Sep-16	27-Dec-16
West Loch Station	12-Sep-16	27-Dec-16
Waipahu Transit Station	12-Sep-16	03-Nov-16
Kamehameha Highway (KH) - Section 2	14-Dec-16	10-Nov-17
Kamehameha Highway Station Group	14-Dec-16	10-Nov-17
Construction - Kamehameha Highway Station Group	14-Dec-16	10-Nov-17
Pearl Highlands Station	22-Jun-17	10-Nov-17
Pearl Ridge Station	14-Jul-17	01-Nov-17
Aloha Stadium Station	14-Dec-16	03-Apr-17
Airport - Section 3	30-Nov-16	18-Dec-17
Airport Station Group	30-Nov-16	18-Dec-17
Construction - Airport Station Group	30-Nov-16	18-Dec-17
Pearl Harbor Station	30-Nov-16	17-Mar-17
HNL Airport Station	19-Jun-17	03-Oct-17
Lagoon Drive Station	01-Dec-16	20-Mar-17
Middle Street Station	31-Aug-17	18-Dec-17
City Center (CC) - Section 4	15-Dec-16	12-Apr-18
Dillingham Station Group	15-Dec-16	06-Dec-17
Construction - Dillingham Station Group	15-Dec-16	06-Dec-17
Kalihi Station	15-Dec-16	04-Apr-17
Kapalama Station	18-Apr-17	02-Aug-17
Iwilei Station	09-Mar-17	26-Jun-17
Chinatown Station	21-Aug-17	06-Dec-17
Kaka'ako Station Group	06-Jun-17	12-Apr-18
Construction - Kaka'ako Station Group	06-Jun-17	12-Apr-18
Downtown Station	06-Jun-17	21-Sep-17
Civic Center Station	18-Jul-17	31-Oct-17
Kaka'ako Station	15-Aug-17	01-Dec-17
Ala Moana Center Station	21-Dec-17	12-Apr-18



CRITICAL PATH ISSUES:

- Coordination with station contractors on construction interface milestones.
- Re-bidding of the Airport and City Center sections of guideway with stations as Design-Build contracts will impact the completion of the Elevator Escalator contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 8.3%; Planned Value: 20%

- Design is 20% complete.
- All draft equipment drawings for the 21 stations have been submitted for review and acceptance and are in review.
- Design is complete on the three WOSG stations.
- The release to begin manufacturing of the FHSG equipment and WOSG will be released pending the approval of the respective contractor's schedule.

Look Ahead:

- Design is continuing for the three KHSG stations.
- Release for manufacturing for the Farrington Highway Station Group and the West O'ahu Station Group elevators and escalators will be scheduled once an approved contractor's schedule has been issued.

KEY ISSUES:

- The release to allow manufacturing for WOSG and KHSG will be dependent on the acceptance of an approved schedule for each of these contracts.

C. Fare Collection System

Contract No.: TBD
Contractor: TBD
Contract Start Date: TBD
Contract Substantial Completion: TBD
Projected Substantial Completion: TBD

Project Description: The fare system is a joint HART and City and County of Honolulu (DTS, DIT, BFS) project that will consist of a multi-model, closed loop, account based smart card system. The Fare System Vendor will be responsible for design, manufacture, testing and installation of the entire system inclusive of hardware and software.

The rail portion of the project will consist of Ticket Vending Machines (TVMs) and fare gates at stations that accept smart cards which can also be used for payment on board TheBus and facilitate a seamless transfer between modes. Equipment and software to be used by both HART and the City and County will include the transaction processing, fare equipment monitoring, customer service systems, as well as a Data Warehouse. TheBus equipment will consist of stand-alone smart card readers on board.

Project Overview: The technical specification for the project is complete and the remaining RFP package is 100% complete. Schedule delays continue at this time due to last minute changes by COR and City procurement. MOU and Cooperative Procurement Agreements have been executed. An MOU with DTS and DIT for future operations and maintenance is still required and will be negotiated in fall 2015.

COST INFORMATION: TBD

SCHEDULE:

- Anticipated RFP release is mid-August 2015 with RFP award anticipated for November 2015. System design anticipated for spring 2016.
- Manufacture in fall 2016.
- System testing for the back office functions and the bus anticipated in spring 2017.
- Anticipated system pilot launch on TheBus in June 2017 with full roll out on TheBus (including all central systems) for fall 2017.
- Interim roll out on rail in late 2018.
- Full roll out on rail in late 2019.

CRITICAL PATH ISSUES:

- Expediting COR and City Procurement review of the RFP documents.

WORK PROGRESS:

Activities this Month:

- Negotiating and drafting new RFP terms to incorporate the City's requirement for cooperative procurement.
- Confirming scope of work (SOW) for Technical Consultant.

Look Ahead:

- Issue Fare System RFP.
- Begin drafting MOU for cost sharing operations with DTS and BFS.
- Brief new Permitted Interaction Group (PIG) on Fare Policy Issues.

KEY ISSUES:

- Releasing the RFP as soon as possible.
- Ensuring Fare System Technical Consultant is on board to support Fare System Vendor negotiations.

4.2 Section I – West O'ahu/Farrington Highway: East Kapolei to Pearl Highlands

A. West O'ahu/Farrington Highway Guideway (WOFH)

Contract No.: DB-120
DB Contractor: Kiewit Infrastructure West Company (KIWC)
Contract Start Date: December 2009
Contract Substantial Completion: July 2016
Projected Substantial Completion: January 2017

Project Description: Design and construction of 6.8 miles of rail alignment, starting at the East Kapolei Station and ending at the Pearl Highlands Station.

Project Overview: For the July 2015 Report, progress for utilities, shaft, column, segment casting, and span stressing have been updated. The right side of the Single Track Guideway has been erected, and work is proceeding on the left side in the vicinity of East Kapolei Station. Span by Span operations are heading eastward over the Fort Weaver Overpass/Kunia Road and towards West Loch Station. Noise and light complaint action items are being addressed for nighttime drilled shaft operations. The Project's Key Quality Issues continue to focus on drilled shafts and segment repairs, in addition to the repairs of Span 17 and Span 105.

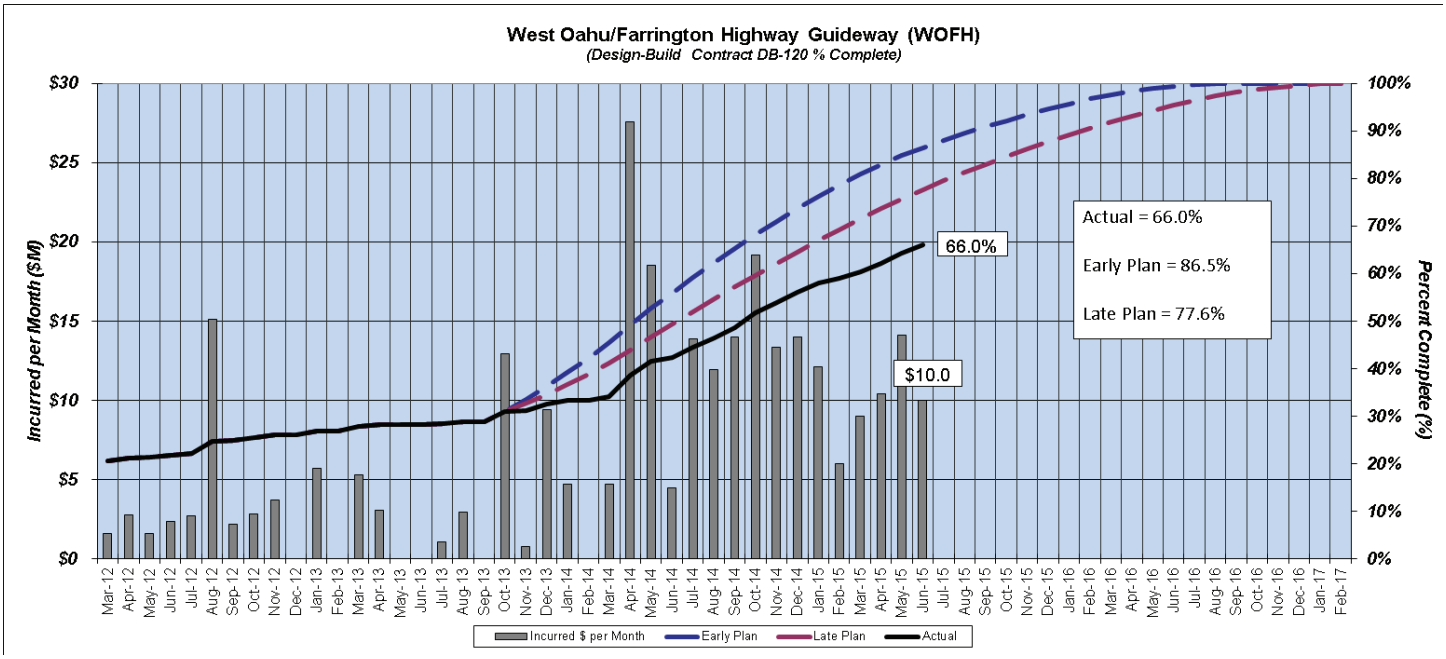
COST INFORMATION:

Original Contract:	$482,924,000	Incurred-to-Date:	$411,680,066
Current Contract Value[1]:	$623,606,472	Incurred in June:	$9,984,686

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$5,339,330
DBE % Attained:	1.11%

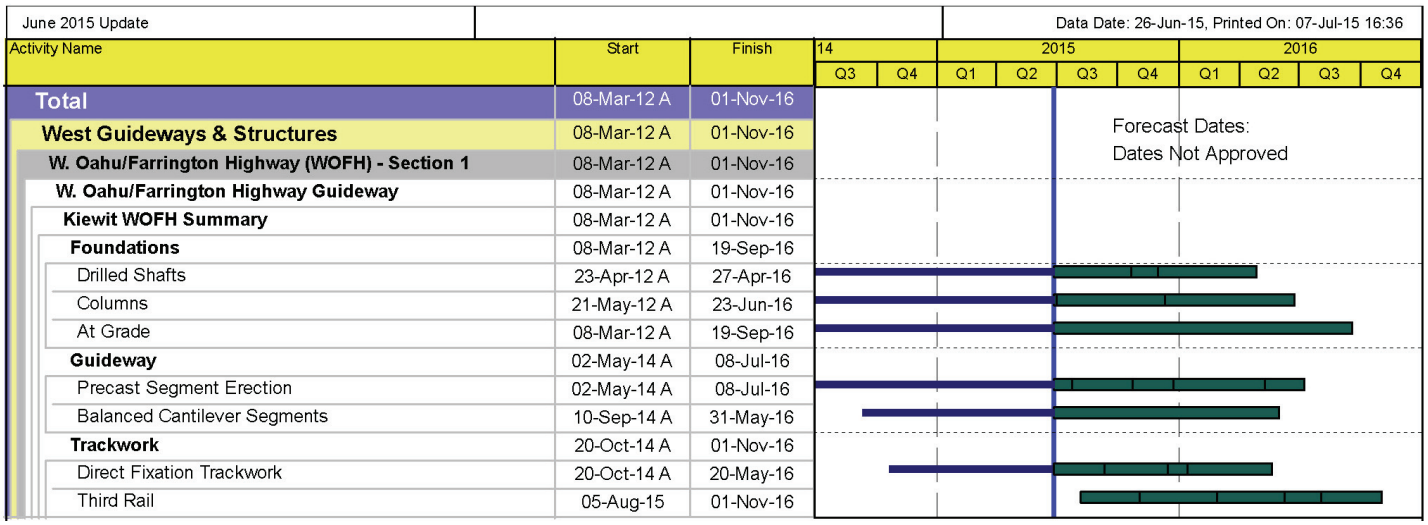
June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$140,682,472**



In July, KIWC submitted Pay Application #67 for June 2015; the payment was rejected as retention was not applied. KIWC has resubmitted Pay Application #67 and the payment is in review. HART maintains that retention will continue to be withheld until such time that progress is satisfactory.

SCHEDULE:

- Progress is lagging from the approved planned schedule. HART and KIWC have been working to mitigate impacts to critical path activities. HART reviewed a revised schedule and requested a resubmittal via the Change Order process.



CRITICAL PATH ISSUES:

- A change order for the procurement and delivery of portables at LCC was executed. The lead time for these modular buildings will have an impact to the overall schedule. KIWC has notified HART that a 6 month time extension beyond substantial completion is needed to complete work at LCC. HART is currently reviewing this situation and is working with the contractor to mitigate a potential delay by only extending the time needed to complete LCC work, which does not affect guideway completion for functional track.
- Production rates for span erection continue to reside at or near critical path.
- Work in the Balanced Cantilever System area has slipped from the October 2014 schedule and is at or nearing critical path with minimal total float days available.

WORK PROGRESS:

WOFH Status as of 7/17/15

Utility Status	Qty to Date	Final Qty	% Complete
Water Line	8,528	9,348	91.2%
Sewer Line	550	570	96.5%
Fuel Line	340	340	100%
Gas line	1,498	1,591	94.2%
Drainage Line	3,325	5,166	64.4%
Elec/Telecom	15,399	21,374	72.0%
Street Lights	6,185	8,357	74.0%
Traffic Sig/ITS Duct bank	8,209	10,802	76.0%
System Sites	-	7,046	0%
ITS Systems Devices	821	4,121	19.9%

Structure Element	Total to Date	Planned to Date*	Total Qty	% Complete
Shafts	229	219	266	86.1%
Columns	185	167	266	69.6%
Segment Casting	2,993	3,163	3,163	94.6%
Spans Stressed	135	138	266	50.8%

* The planned values are based on KIWC's Pending October Schedule Revision dated Dec. 5, 2014.

Activities this Month:

Earned Value: 70.6% [(Total Achieved to June 2015 ($411 million) + Projected July 2015 Period ($29 million))/Total Contract Including Executed Change Orders ($623 million)]. Planned Value: 79.5%

Shaft/Column

- Performed drilled shaft construction, drilling, and placing of concrete for a total of 11 drill shafts. Set rebar and placed concrete for 17 columns.

Guideway Segment Erection

- Eastbound heading segments were erected from Span 139 through Span 151. Westbound heading segments were erected from Span 4R through 1R. The Westbound truss is being transferred to the left side for the single track erection.

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. Additional submittals are expected to be issued for construction pending coordination with other parties and contracts.

Shaft/Column

- Continue with drilled shaft and column production along Farrington between West Loch Station and Waipahu High School. Shaft and column production is also proceeding at the Pearl Highlands Station area.

Guideway Segment Erection

- Segment span erection will continue from Span 12L westbound to the end of the alignment and from Span 152 eastbound along Farrington Highway towards West Loch Station.

Activities this Month (continued):

Utility Relocation

- Addressed utility conflicts along the alignment, relocating traffic signals, streetlights, and existing water/sewer lines. HECO relocating power lines. Third-party companies relocating overhead fiber-optic lines. Work is staying ahead of drilled shaft production.

Balanced Cantilever Structure

- Cast 1 new segment downstream at Pier 254 and the closure pour which completes the segment between 253 and 254. Cast 1 segment upstream at Pier 254. Cast 2 segments, 1 upstream and 1 downstream, at Pier 255. The stem and diaphragm for the Pier Table at Pier 256 was completed. Assembly of the third truss started at Pier 257.

Track Construction

- Track setting and concrete placing for plinths was completed by the double crossover by Ho'opili Station. Concrete placing will continue for plinths at double crossovers Span 15 and 16 for East Kapolei Station. Started setting track between Ho'opili Station and UH West O'ahu.

Precast Yard

- Precast Yard performed daily segment and sound wall casting at a reduced pace, averaging 4 segments per day or 20 segments per week. This reduced pace is to accommodate the available storage at the yard.

KIWC/Third-Party Coordination

- HECO and KIWC continue to resolve conflicts with utility relocations.
- Horizontal offset requirements with utility companies are no longer an issue and HECO is proceeding with their design.

Civil Structures

- The MSE Block Wall by Pier 251 continued to progress where Retaining Wall A continues to be the main focus. Retaining Wall B construction continues. Started the construction of the cast in place Wall D.

Look Ahead (continued):

Utility Relocation

- Relocate wet utilities (sewer/water) and dry utilities (traffic signal, street lighting and fiber optics) along Farrington Highway in preparation for eastbound segment erection.

Balanced Cantilever Structure

- KIWC will continue to cast upstream and downstream segments for the balanced cantilever at Piers 253, 254 and 255. Pier Table construction at Pier 256 will be completed. The installation of the third truss at Pier 257 will be completed.

Track Construction

- Setting rail will continue between UH West O'ahu Station and Ho'opili Station. Welding operations will return in October 2015, east of West Loch Station.

Precast Yard

- Production of segment casting and sound walls will continue towards a milestone of 3,000 segments cast. Completion of segment and sound walls casting is expected to be completed by January 2016.

KIWC/Third-Party Coordination

- Continue to resolve conflict construction and traffic issues with third-parties.

Civil Structures

- MSE Block Walls A, B and C will continue to progress by Pier 251. Continue the construction of the Cast in Place Wall D.

KEY ISSUES:

- **Design Completion Schedule** – The Project's design schedule continues to be tracked by HART. Design completion is not impacting construction and the Design-Builder is managing the completion of all design milestones. Comment Disposition and Over-the-Shoulder Meetings also continue to occur. As of mid-July, 112 of 130 design submittals have been submitted. HART will continue to facilitate the third-party review process and will track against KIWC's design schedule.
- **Leeward Community College (LCC) Portables and Parking Lot Change Order** –A grading permit and a full construction ROE is needed in order for KIWC to begin work at the LCC Station area. KIWC has developed plans which were submitted to the Honolulu Department of Planning and Permitting (DPP), LCC and HART for review. Design development and review of the Access structure is on-going with KIWC and HART. The construction ROE was issued by the end of July 2015. The anticipated construction start date is in August 2015, and the portables are scheduled to be delivered in October 2015.
- **Construction Production/Baseline Schedule** – Meeting the project's schedule will continue to be a challenge for the project. A re-sequenced October 2014 baseline schedule was submitted to HART in December 2014, showing more realistic construction durations. The schedule is being used to track progress against schedule of milestones. HART and KIWC continue to meet to discuss further refinements to durations and activities within the schedule.
- **HDOT Traffic Signal Betterments** – HDOT has requested and has recognized various betterments beyond KIWC's base scope of work. KIWC has presented a list of contract work versus betterments. HART has reviewed these items and agreed to the final scope of work. In July, both HART and KIWC developed pricing for the agreed scope of work for traffic signal betterments. HART and KIWC will proceed with negotiations for the traffic signal betterments.
- **Noise and Light Complaints -** KIWC has received multiple noise, light, and equipment complaints regarding construction work occurring at night along the project alignment. The complaints involve noise from drilled shaft operations that exceed the contract noise variance limits of 95 dBA. HART and KIWC will continue to meet to discuss the allowed operations and appropriate responses. HART and KIWC have already made progress in communicating and resolving these issues.
- **Span by Span Operations–** Span erection and stressing operations are proceeding eastward towards West Loch Station at a steady pace. Erection and post tensioning operations over the Fort Weaver Overpass/Kunia Road were completed in mid-July. Span by Span operations in this area are estimated to arrive at West Loch station by mid-August. KIWC has begun the assembly of a third truss by Pier 257 to advance the erection of segments from the balanced cantilever eastward towards the end of the alignment.

QUALITY MANAGEMENT:

- KIWC continues to follow an established quality process. There have not been any significant findings through quality audits.
- **Span 17 Damage and Repair** - During the erection process of Span 17, segments 17-1, 17-2, 17-11, and 17-12 were damaged due to unbalanced support from the temporary bearings. NCR 00314 was opened to address this issue. A root cause analysis and repair procedure was submitted to HART and HART has provided comments to KIWC's proposed repair procedure. Repair at Span 17 is not on the critical path and KIWC continues to proceed with span by span operations westbound.
- **Span 105 Damage and Repair** – While setting Span 105 into its final horizontal and vertical position, the span shifted while on the jacks. Span 105 made contact with nearby Spans 104 and 106. NCR 00336 was opened while damage to Spans 104, 105 and 106 are being evaluated. KIWC repositioned Span 105 back into its rough position while the repair analysis to 105 and the adjacent segments is ongoing. KIWC continues rough setting of spans and final alignment operations. KIWC will continue to document the damage and repair to Spans 104, 105 and 106 through an NCR.

- **Drilled Shaft Quality** – HART received seven additional drill shaft Crosshole Sonic Logging (CSL) Reports in July 2015. All of the drilled shafts were found to have velocity reductions outside of the acceptable design criteria limits. Of the 253 drilled shafts that have been tested to date, HART has requested that KIWC provide additional testing and/or modifications to 79 shafts to ensure that the shafts meet Project Specifications. KIWC continues to have weekly Drilled Shaft Quality Meetings with HART to discuss testing results, quality, the concrete mix, and methods for repair.
- **Drill Shaft Repairs** – Of the 79 drilled shafts that are being reviewed in detail, 14 new NCRs have been opened and submitted to HART this month. HART will not close an NCR until KIWC completes another CSL test and demonstrates soundness of the concrete shaft as well as when all HART comments are responded to. HART and KIWC are currently reviewing the repair procedure for Pier 235.
- **Pre-Cast Segment Progress/Quality** – The Casting Yard has scaled back in production to allow time for span erection efforts to catch up. Production is now averaging 20 segments per week and is currently about 94% complete with segment production for the overall project. 2,993 segments have been cast to date. Although 128 of the total 417 NCRs (30.7%) have been related to segmental issues like damaged shear keys, concrete voids, and spalls, proper correction procedures have already been developed and are being implemented.
- **Closing Out NCRs** – NCRs are being promptly corrected, validated, and closed out during this period. Both KIWC and HART have been working together to complete all the needed processes for timely validation. A total of 35 NCRs have been closed since last month. Of the 35, nine were related to pre-cast segment issues, 21 were related to drilled shaft issues, one Balanced Cantilever System (BCS) cracking/tensioning issue, one out of tolerance rebar issue, one Column Concrete Void issue, and two related to missing CSL Tubes.
- **Track Welding and Track Construction Operations** – KIWC continues to complete the concrete plinth trackwork for double crossovers Span 15 and 16 east of East Kapolei Station (the second of five crossovers for the project). Track thermite welding and concrete plinth rebar installation operations have begun in this area. HART and KIWC continue to have discussions on Direct Fixation Tolerances which will need to be resolved prior to proceeding with track work.
- **Balanced Cantilever System (BCS) Form Advancement** – KIWC continues to make great strides in the BCS construction. In July, the closure segment between Pier 253 and Pier 254 was completed, thus fully completing the BCS span over H-1 westbound. One segment was cast upstream and downstream for Pier Table 255 and KIWC poured the Stem and Diaphragm for Pier Table 256. On average, one Balanced Cantilever segment is cast and stressed per week. As of mid-July, 27 of 84 BCS segments have been stressed (32.1 %).
- **Span by Span Advancement** – Work at the area around East Kapolei Station on the single spans has been progressing at a slower pace. Single spans on the right side of the alignment have all been stressed. KIWC is moving the underslung truss back to 12L to begin erection and stressing operations moving toward the west end of the project. At the eastern heading, segments will continue to get erected as the truss proceeds eastward towards West Loch station.

WOFH NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
417	344	73

PROJECT PICTURES:

Erecting segments at Span 1R, Work Area 1.

Erected segments for Span 144 over Fort Weaver Road, WA2.

Preparing to assemble underslung Truss #3, Work Area 6.

Concrete placement at Pier Table 256 Stem and Diaphragm, WA 6.

B. West O'ahu Station Group (WOSG)

Contract No.: FD-140
Contractor: URS Corporation, Final Design Consultant (Engineer of Record)
Contract Start Date: June 2012
Construction Docs Bid-Ready: April 2015 (awarded July 2015)

Project Description: Architectural and engineering services for the design of three (3) transit stations serving the WOFH Guideway. The three stations comprising the WOSG contract are the East Kapolei Station, the UH West O'ahu Station and the Ho'opili Station.

Project Overview: The WOSG construction contract was awarded to Nan, Inc. on July 1, 2015. HART will be evaluating the Project schedule and anticipates issuing the Notice to Proceed in the coming weeks.

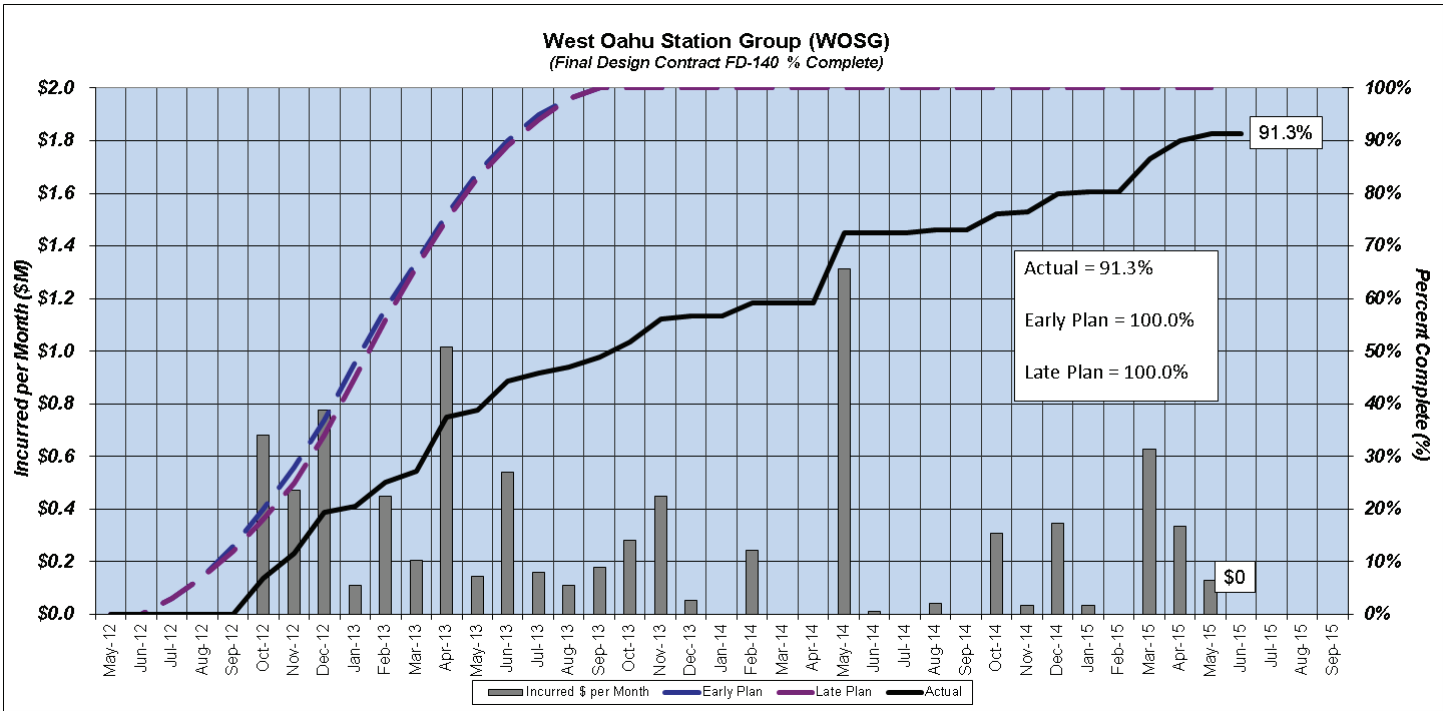
COST INFORMATION:

Original Contract: $7,789,000	Incurred-to-Date: $9,052,950
Current Contract Value[1]: $10,014,305	Incurred in June: $0

[1]*Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

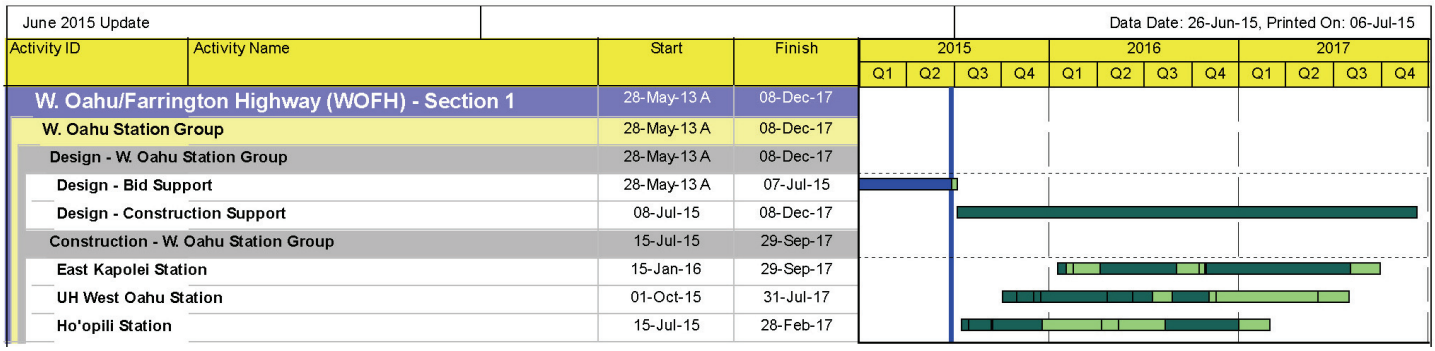
June Change Orders/Amendment		
Change No./Amend	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$2,777,305**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The design phase of the WOSG contract is essentially complete. The role of the design consultant is transitioning to engineering support services during construction.

SCHEDULE:



June 2015 Update — Data Date: 26-Jun-15, Printed On: 06-Jul-15

Activity ID	Activity Name	Start	Finish
	W. Oahu/Farrington Highway (WOFH) - Section 1	28-May-13 A	08-Dec-17
	W. Oahu Station Group	28-May-13 A	08-Dec-17
	Design - W. Oahu Station Group	28-May-13 A	08-Dec-17
	Design - Bid Support	28-May-13 A	07-Jul-15
	Design - Construction Support	08-Jul-15	08-Dec-17
	Construction - W. Oahu Station Group	15-Jul-15	29-Sep-17
	East Kapolei Station	15-Jan-16	29-Sep-17
	UH West Oahu Station	01-Oct-15	31-Jul-17
	Ho'opili Station	15-Jul-15	28-Feb-17

CRITICAL PATH ISSUES:

- HART is overseeing the final resolution of minor interface items outstanding between WOSG and the CSC, WOFH and EE contracts.
- The design consultant is completing designs of power service connections for UH West O‘ahu and Ho‘opili Stations.
- HART is formulating responses to HDOT concerning comments they have made regarding pedestrian and bicycle circulation studies.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 93%.
- Interfaced design with CSC, WOFH and EE contracts.
- Coordinated with private developer, utility companies and third party agencies to establish utility services for UH West O‘ahu and Ho‘opili Stations.

Look Ahead:

- Document design interface agreements with CSC, WOFH and EE contracts.
- Finalize third-party agreements and approvals.

KEY ISSUES:

- Coordinating with HDOT to resolve policy level design review comments. HDOT comments must be resolved before DPP will sign-off and issue grading permits.
- Holding tanks in lieu of sewer connections at UH West O‘ahu and Ho‘opili Stations need to be resolved with DOH.

C. Farrington Highway Station Group (FHSG)

Contract No.: FD-240
Contractors:

URS Corporation
Start Date: Sept. 27, 2013
End Date: June 2017

HDR Engineering, Inc.
Start Date: Jan. 12, 2011
End Date: April 5, 2013

Construction Docs Bid-Ready: December 2014 (awarded June 2015)
Project Description: Architectural and engineering services for the design of three (3) transit stations serving the WOFH Guideway. The three stations comprising the FHSG contract are the West Loch Station, the Waipahu Transit Center Station and the at-grade Leeward Community College Station.

Project Overview: Design for this contract is complete. The associated construction contract was awarded to Hawaiian Dredging on June 9, 2015. HART will be evaluating the Project schedule and anticipates issuing the Notice to Proceed in the coming weeks.

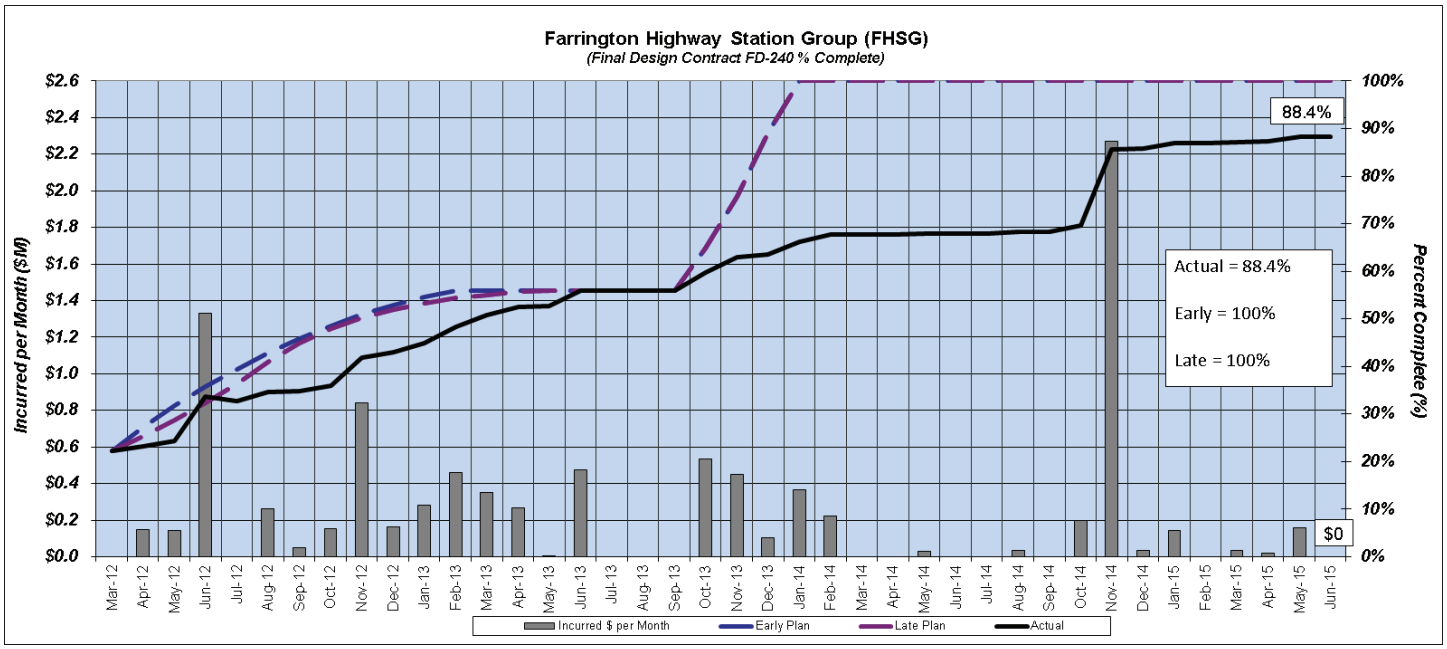
COST INFORMATION:

Original Contract: $9,300,696	Incurred-to-Date: $12,546,293
Current Contract Value[1]: $14,198,045	Incurred in June: $0

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$258,611
DBE % Attained:	4.7%

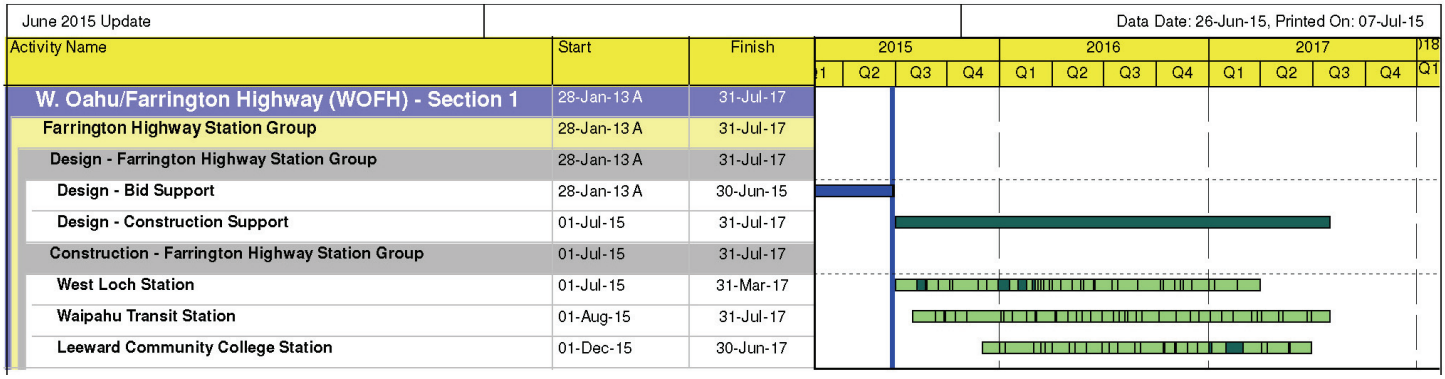
June Change Orders/Amendments		
Change No./Amend	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$5,017,093**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The design phase of the FHSG contract is complete. The role of the design consultant has transitioned from design to engineering support services during construction.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is facilitating the finalization of interface agreements between the FHSG, CSC and WOFH contracts.
- HART is coordinating and forecasting construction access milestones between interfacing contracts.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 84%. This value appears low relative to other station groups due to the proportionally larger value of its construction services budget. However, the design scope of this contract is complete.
- Finalizing approvals from third parties.

Look Ahead:

- Document design interface agreements.

KEY ISSUES:

- Tracking completion of other designs that interface with FHSG prior to construction.
- Tracking construction access handoff dates with WOFH contractor.

D. Maintenance and Storage Facility (MSF)

Contract No.: DB-200
Contractor: Kiewit/Kobayashi Joint Venture (KKJV)
Contract Start Date: July 2011
Contract Substantial Completion: April 2016
Projected Substantial Completion: April 2016

Project Description: The MSF contract consists of the Operations and Servicing Building, Maintenance of Way, Train Wash Facility and Wheel Truing Building. In addition to the four (4) facility buildings, MSF includes rail procurement, special trackwork, ties, third rail and other track material for the four guideway segments on the project.

Project Overview: MSF substantial completion is April 21, 2016. A 6 calendar days no cost time extension was granted, due to weather delays that impacted critical construction activities.

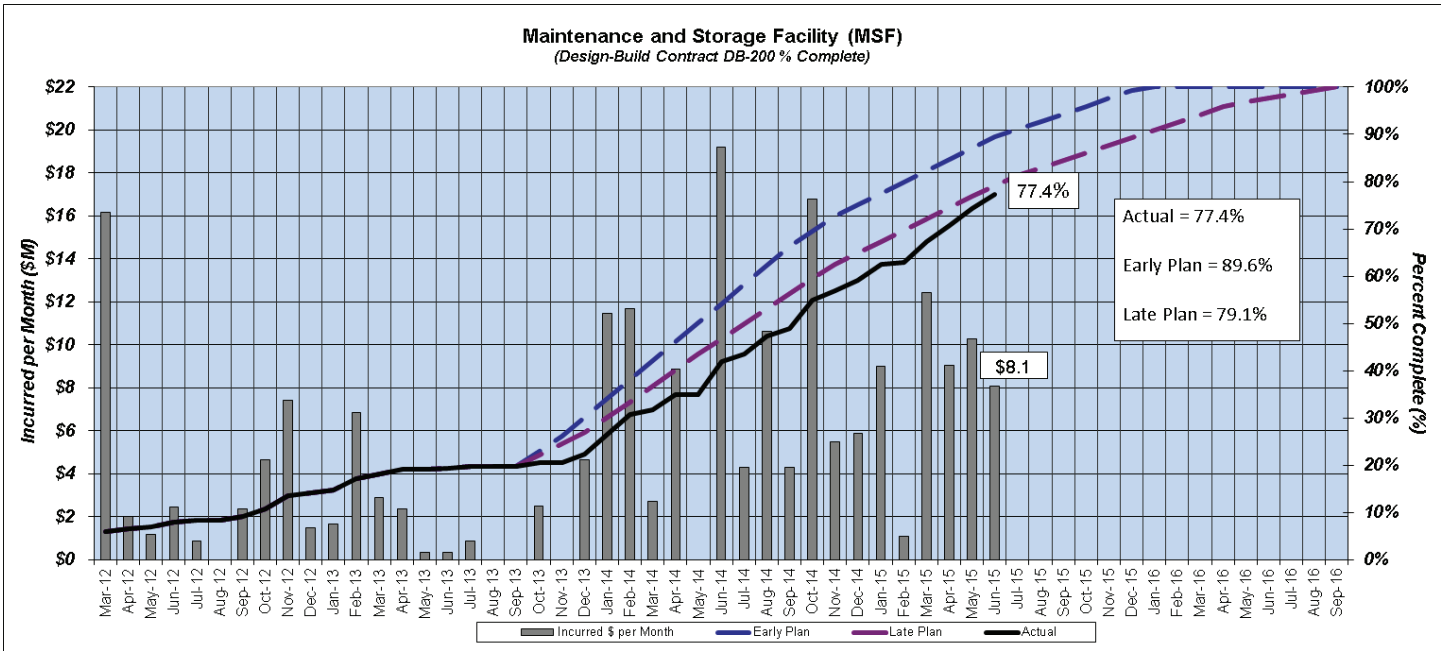
COST INFORMATION:

Original Contract: $195,258,000	Incurred-to-Date: $212,582,909
Current Contract Value[1]: $274,834,593	Incurred in June: $8,105,581

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

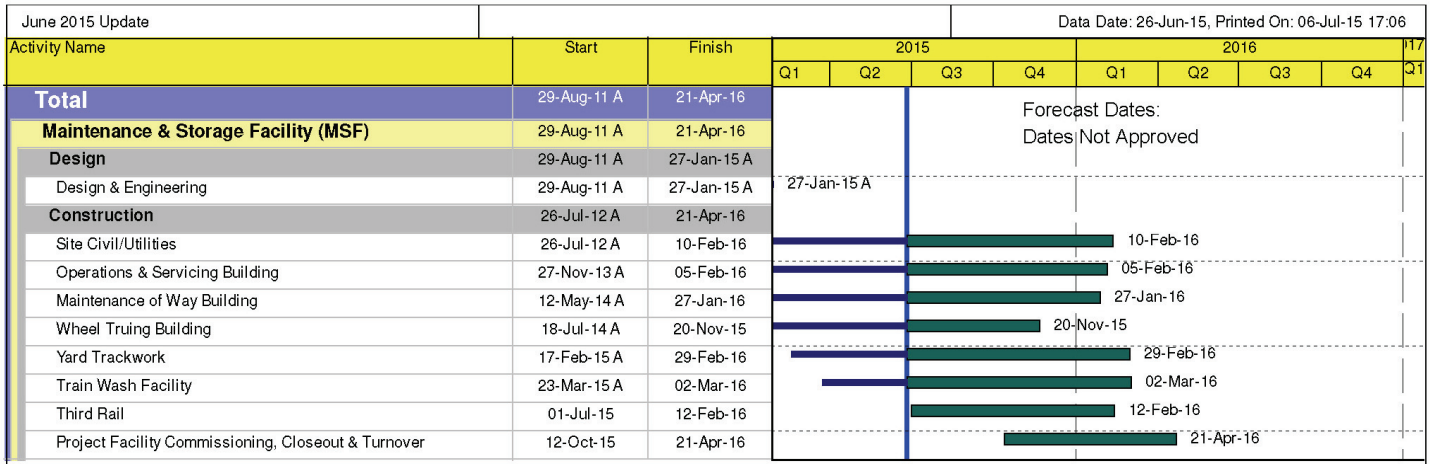
DBE Participation	
Actual DBE Participation:	$145,819
DBE % Attained:	0.08%

June Change Orders		
Change No.	**Description**	**Amount ($)**
CO00031	OSB and MOW Interior Bldg. Sys Devices	$180,000
CO00032	Del. Of Veg. Roof/Car Roof Access Platform/WTB & 1	($153,415)
	Cumulative to Date	**$79,576,593**



SCHEDULE:

- The MSF substantial completion was extended by change order from April 15, 2016 to April 21, 2016.



CRITICAL PATH ISSUES:

- MSF contract substantial completion date was extended 6 calendar days by change order. This delay is due to inclement weather beyond the norm that impacted construction operations in the fourth quarter of 2014.
- Scheduling work related to test track and functional track to support program opening dates.
- Coordination with abutting WOFH main line contract for completion of track work in west yard, and utilities and site access in the east yard.

MSF Construction Status 74% Complete Overall as of 7/30/15	
Element	**% Complete**
OSB	72%
MOW Building	73%
WTB	88%
Rail Procurement	98%

WORK PROGRESS:

Activities this Month:

Earned Value: 75% [(Total Achieved to June 2015 ($195.2 million) + Projected July 2015 Period ($15.02 million))/Total Contract Including Executed Change Orders ($275 million)]. Planned Value: 81%

Yard/Utilities

- Installed emergency diesel generator and switchgear for energizing MOW, OSB, WTB and TWF.
- Turned over Yard Control Bungalow (YCB) infrastructure to CSC for construction of YCB.
- Completed protective measures to HECO's satisfaction for HECO manholes, transformer pads and ductbanks.
- Installing conduit for systems, communications, train control, traction power, site electrical and exterior lighting.
- Installation of contact rail at storage tracks is ongoing.
- Construction of storm water outfall is ongoing.

Operations and Servicing Building (OSB)

- Installing rail on pillars for the M-6 and M-7 tracks.
- Installing handrail for the car access platforms.
- Installing mechanical/electrical/plumbing.
- Installing service and emergency lighting.
- Installing drywall and interior and exterior building finishes.
- Installing framing for fixed ceilings.
- Installing metal siding.

Look Ahead:

Yard

- Continue Storage and Maintenance track work.
- Continue Signal and Control Raceway.

Utilities

- Continue installation of exterior yard and perimeter lighting.

MOW

- Complete power distribution.
- Interior and exterior finishes.
- Continue electrical mechanical and plumbing.
- Complete sprinkler system.
- Complete roofing installation.

Train Wash

- Complete below grade utilities for the TWF.
- Complete platform walls.
- Complete backfill.

Activities this Month (continued):

Maintenance of Way (MOW)

- Installing framing for roll up doors for warehouses and shops.
- Completed emergency and normal lighting installation.
- Installing drywall and interior and exterior building finishes.
- Installing roof drain system for membrane and standing seam metal roofing.
- Installing mechanical/electrical/plumbing systems.

Wheel Truing Building (WTB)

- Installing interior and exterior finishes.
- Installing mechanical/electrical/plumbing.

TPSS

- Infrastructure and pad turned over to CSC for TPSS installation.

Rail Procurement and Installation

- Installing contact rail M-Tracks.
- Completed contact rail for S-Tracks.
- Installing IJ's for storage tracks S1-7.
- Receiving materials and installing turnouts is ongoing.
- Distributing rail materials to WOFH is ongoing.
- Installation of pre-curved rail is ongoing.

Administration

- Continued working with the CSC to resolve design interface issues.

Look Ahead (continued):

OSB

- Continue installation of turntables and hydraulic lifts.
- Complete interior partitions.
- Building close in, metal wall panels, glazing, doors.
- Interior finishes/HVAC.

WTB

- Mandoors, wheel lathe, interior partitions, power distribution, and interior finishes.
- Release Building Systems raceway to CSC.

KEY ISSUES:

- **Interface Management with Core Systems Contractor –** predominant areas of concern include a general revision to the location of rail control system insulated joints and track devices; building internal requirements for access control, intrusion detection and fire detection and alarm system device locations; and resolution of traction power duct bank terminations at electrically operated traction power switches. Details and resolution are being worked out through the Request for Interface Data process.
- **Joint Occupancy with Core Systems Contractor –** weekly meetings are held and details are being worked out for systematic release of areas and infrastructure whereby the Core Systems Contractor can commence work.
- **HECO Interface –** installation of incoming power will be required to support commissioning of building systems and train maintenance including bridge cranes and the wheel lathe.
- **Coordination with the abutting main line contract –** for completion of site access in the east and west yards, including rail, vehicular access and utility interconnection.
- **Train Car Delivery and Assembly –** Rail, access and building completion in support of train car delivery and assembling, including site access and internal movement of assembled rail cars.

QUALITY MANAGEMENT:

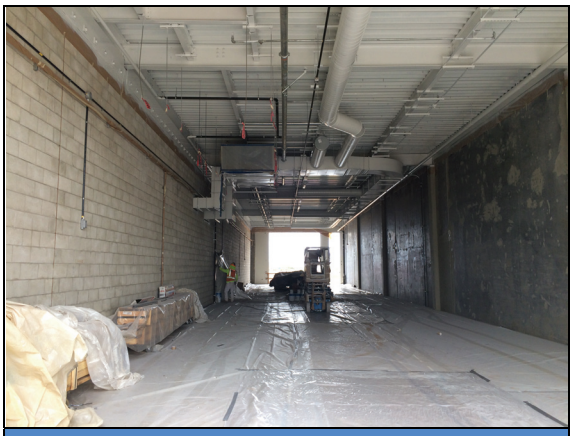
- Overall quality of the contract is good.
- NCR 26 was issued to Swanson Steel for wedge anchors not fully embedded for Stairway No. 4.

MSF NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
26	25	1

PROJECT PICTURES:

Grading along Basin Access Rd.

OSB access pit grate installation.



MOW interior painting at vehicle equipment storage area.

TWF excavation.

WTB interior drywall.

Set contact rail insulator system at S track.

4.3 Section II – Kamehameha Highway: Pearl Highlands to Aloha Stadium

A. Kamehameha Highway Guideway (KHG)

Contract No.: DB-320
Contractor: Kiewit Infrastructure West Company (KIWC)
Contract Start Date: June 2011
Contract Substantial Completion: September 2016
Projected Substantial Completion: April 2017

Project Description: Kamehameha Highway Guideway DB Contract (KHG) consists of 3.9 miles and starts 400 feet east of the Pearl Highlands Station and terminates 1,400 feet beyond the Aloha Stadium Station. KHG is made up of utility relocations, highway widening, drilled shaft foundations, columns and aerial structure.

Project Overview: Construction of the drilled shafts has moved to the balanced cantilever area in order to maintain progress while HECO clearance issues are resolved. Discussions with HECO are being held at an elevated level to resolve concerns about horizontal/vertical clearances and schedule certainty. Permanent and temporary ITS continue to be installed along with traffic signals. Utility relocations along the alignment continue to progress, but are impacted by third-party schedules, primarily HECO, which have delayed completion. Column construction is anticipated to start in early August 2015.

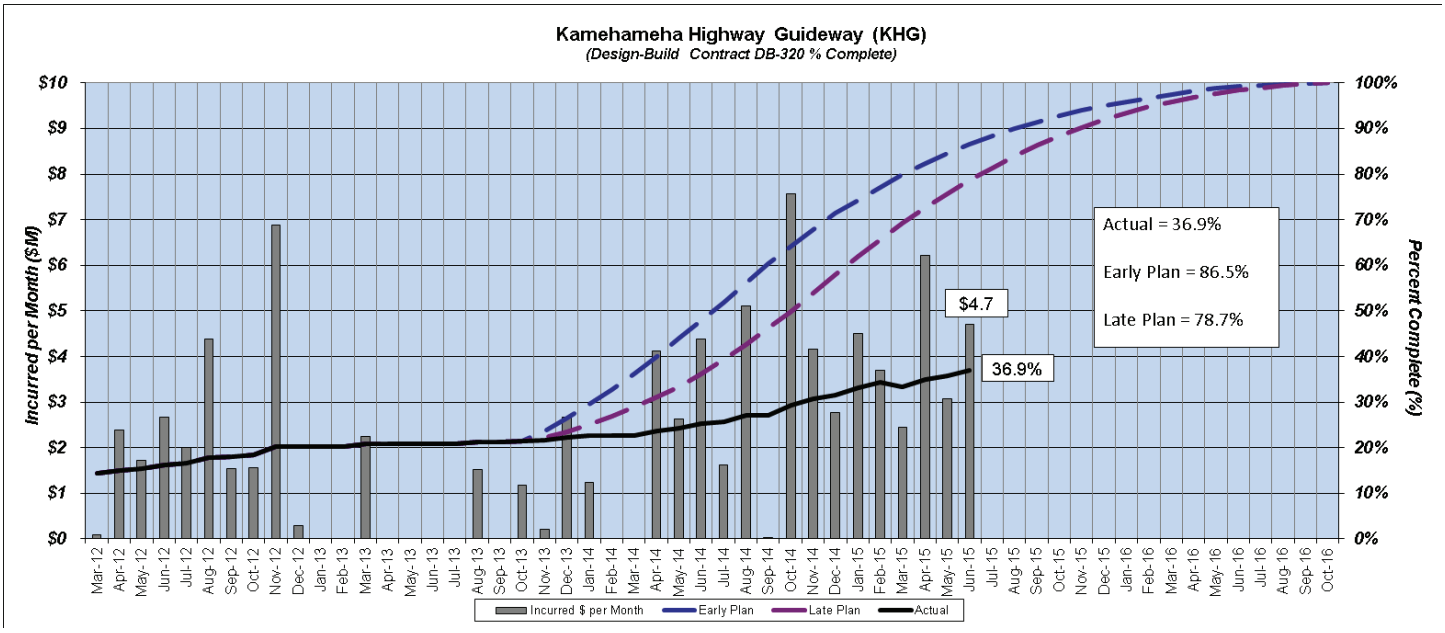
COST INFORMATION:

Original Contract: $372,150,000	Incurred-to-Date: $146,899,163
Current Contract Value[1]: $388,636,363	Incurred in June: $4,701,912

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$297,631
DBE % Attained:	0.08%

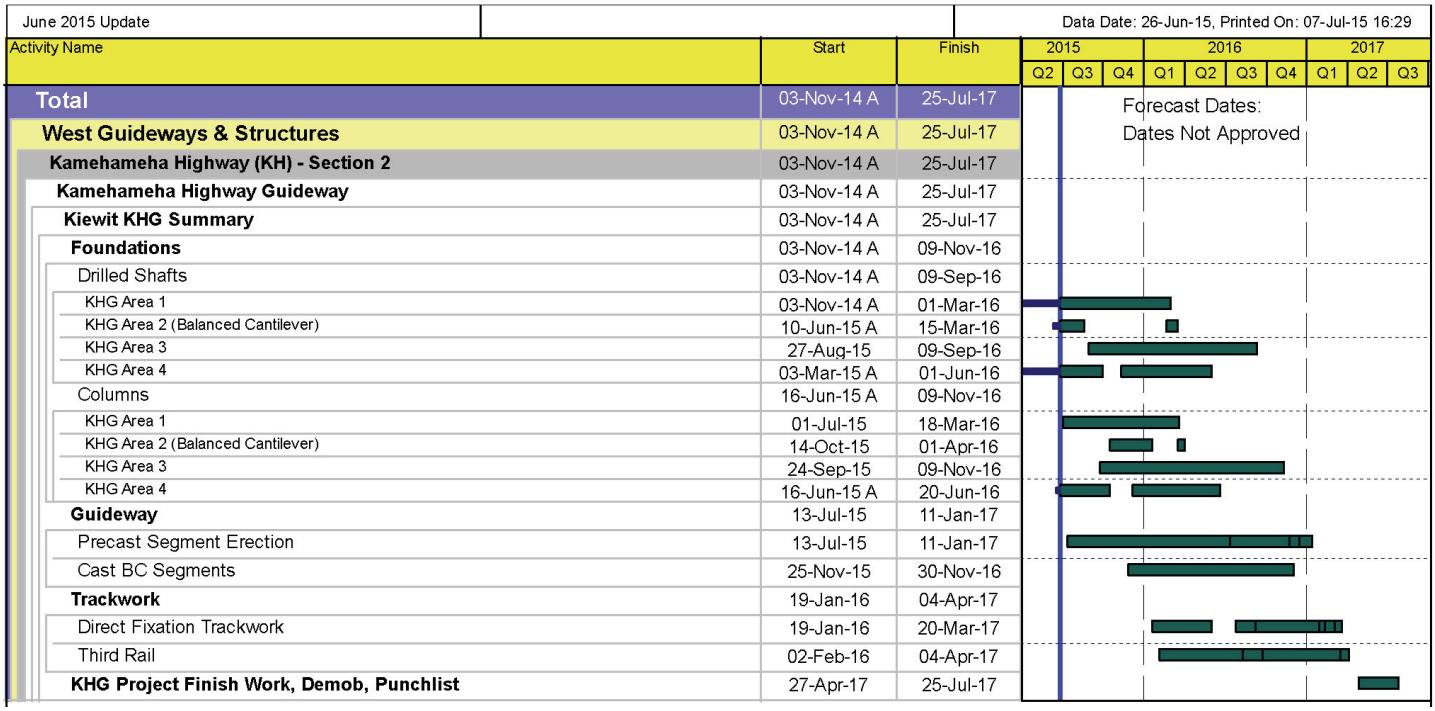
June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$16,486,363**



Progress payment 47 (June 2015) has been submitted for review.

SCHEDULE:

- The accepted re-baselined schedule dated Oct. 28, 2013 is no longer valid, and KIWC submitted a schedule revision on Dec. 5, 2014 with a data date of October 2014. This schedule showed a revised Substantial Completion date of April 4, 2017. HART has requested re-submittal via the change order process.
- Schedule has continued to slip due to third-party construction of utility relocation work. HART has noted that KIWC's lack of coordination with third-parties contributed to the schedule slip.



CRITICAL PATH ISSUES:

- Due to delays in the Design-Builder's design, coordination and construction of utility relocations, drilling of shafts will need to be re-sequenced to mitigate the impact.
- HECO schedule uncertainty continues to impact the construction schedule for the project, though the effects have been partially mitigated by resequencing the work.
- In the most recent schedule submitted, the longest path increased to -223 days of total float. The total float was at -215 days in the previous month and -200 days in the accepted October 2014 update.

WORK PROGRESS:

KHG Construction Status as of 7/17/15

Utility Status	Qty to Date	Final Qty	% Complete
Water Line	3,953	4,362	91%
Gas Line	10,900	12,641	86%
Sewer Line	429	492	87%
Drainage	586	2,081	28%
Elec/Telecom	13,619	19,455	70%
Signals/ITS/ Lights	12,889	18,486	70%

Structure Element	Total to Date	Planned to Date*	Total Qty**	% Complete
Shafts	50	33	186	27%
Columns	0	13	168	0%
Segment Casting	59	378	2,075	3%
Segment Erection	0	0	2,075	0%
Spans Stressed	0	0	156	0%

* The planned values are based on KHG's pending October schedule revision dated Dec. 5, 2014.
**Total Quantity based on KIWC interim plans. Final design has not been completed.

Activities this Month:

Earned Value: 37.7% [(Total achieved to June 2015 ($139.8 million) + July projection ($6.8 million))/Total contract including executed Change Orders ($389 million)]. Planned Value: 81.4%

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. To date, 36 of 49 drawing packages have been issued for construction.

Activities this Month (continued):

Shaft/Column/Segments

- 50 of 186 shafts have been installed.
- 59 of 2,075 segments have been cast.

Utility Relocation Progress

- Wall 8 fiber optic bypass and drainage began.
- Fuel line relocations in Phases 6, 7 and 12 continue.
- The relocation of HECO electrical lines and Hawaiian Telcom, Oceanic Time Warner and Intelligent Transportation Systems (ITS) duct banks is occurring in various phases along the alignment.
- Pile driving for street lights at Pali Momi intersection began.
- Excavated footings for "C" piers at shafts 277 and 278.
- Installation of drain line in Phase 5.

Balanced Cantilever Structure (BCS)

- KIWC began drilling shafts at the BCS.

Precast Yard

- KIWC has cast 59 of the 2,075 segments.

Traffic Signals

- Traffic signal installation is ongoing at the intersections of Pali Momi and Kanuku.

Roadway Widening

- Roadway widening activities are ongoing in Phases 6, 9 and 12.

Look Ahead (continued):

Shaft/Column/Segments

- Construction of shafts will begin for the balanced cantilever, starting on the west side of H-1 moving westbound.
- Column construction is expected to start in August, from the west end proceeding eastward.

Utility Relocation

- Acquisition of ROE for utility relocations is being pursued by HART and KIWC jointly, and meetings with property owners will continue. Negotiations with property owners have been favorable, and agreements are being drafted for signature.
- Fuel line tie-ins in Phases 6, 7 and 12.
- Pile driving for street lights to begin at various intersections.
- Water line "E" relocation in Phase 12.

Balanced Cantilever Structure (BCS)

- KIWC will continue drilling shafts at the BCS.

Precast Yard

- KIWC will continue casting segments. Based on the current rate, the forecasted completion is June 2016. With known storage concerns, this completion date will likely push out.

Roadway Widening

- Roadway widening will continue throughout the alignment.
- HART has issued RFCRs to the contractor for identified HDOT betterments. Work is anticipated to begin after issuance of a change order.

KEY ISSUES:

- **Community Noise Complaints** – Mitigation measures for noise and traffic impacts continue to be explored. HART will continue to work with the community to try to minimize impacts.
- **HDOT Traffic Signal Betterments** – HDOT has requested various betterments beyond KIWC's base scope of work. KIWC has presented a list of contract work versus betterments. HART has reviewed these items and agreed to the final scope of work. In June, both HART and KIWC continued to develop pricing by intersection. Priority of intersections will also be indicated in order to advance to avoid additional delays.
- **HECO Clearance and Schedule Issues** – Resolution of the HECO clearance issues continues to impact the project schedule along with the lack of schedule commitment.

QUALITY MANAGEMENT:

- KIWC continues to follow an established quality process. There have not been any significant findings through quality audits.
- **Roadway Widening Rework** – HART continues to monitor, along with KIWC Quality, the construction of curbs, gutters, and sidewalks done by a subcontractor. HART has required the removal and replacement of unsatisfactory sections.
- **Latest Construction Plans** – Current shaft construction is proceeding with only minor quality issues. Methodology for the process of implementing design changes after plans have been issued for construction is being discussed at a programmatic level. NCR 71 was issued for Shafts 284 and 285 for not following the proper design change process, which results in KHG field staff having a superseded set of plans.
- **Drilled Shaft Quality** – KIWC currently has 14 open NCRs due to velocity reduction exceeding 10%. KIWC has been reviewing their means and methods for placing concrete to reduce the issue with velocity reduction.

KHG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
72	44	28

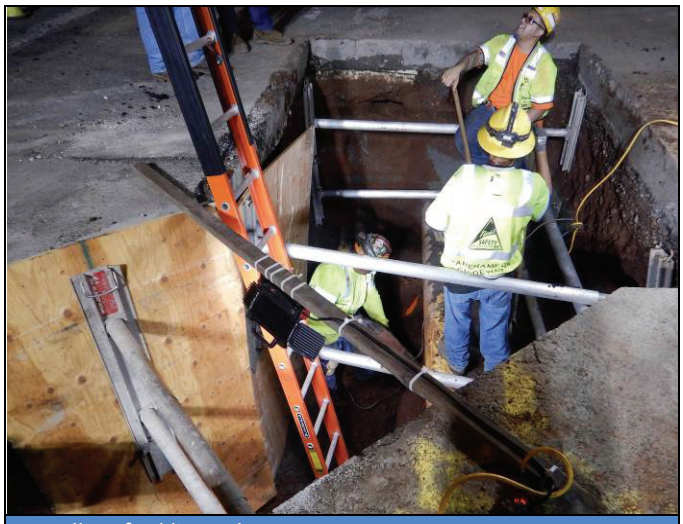
PROJECT PICTURES:

Drilling Shaft 270, Phase 1.

Pile driving for signal foundation, Phase 10.

Potholing utilities, Phase 13.

Drilling soldier piles, Phase 1.



Installing fuel line, Phase 5.

Drilling balanced cantilever shafts, Phase 4.

B. Ramp H2R2

Contract No.: DBB-385
Contractor: Royal Contracting Co. Ltd.
Contract Start Date: May 2015
Substantial Completion: May 2016
Projected Completion: June 2016

Project Description: Ramp H2R2 is a loop ramp which connects in-bound Farrington Highway to in-bound Kamehameha Highway. The loop terminates just west of the intersection of Kamehameha Highway and Waihona Street.

Project Overview: Royal Contracting was awarded this project on May 4, 2015, and issued NTP on May 18, 2015. Construction duration is anticipated to be 13 months.

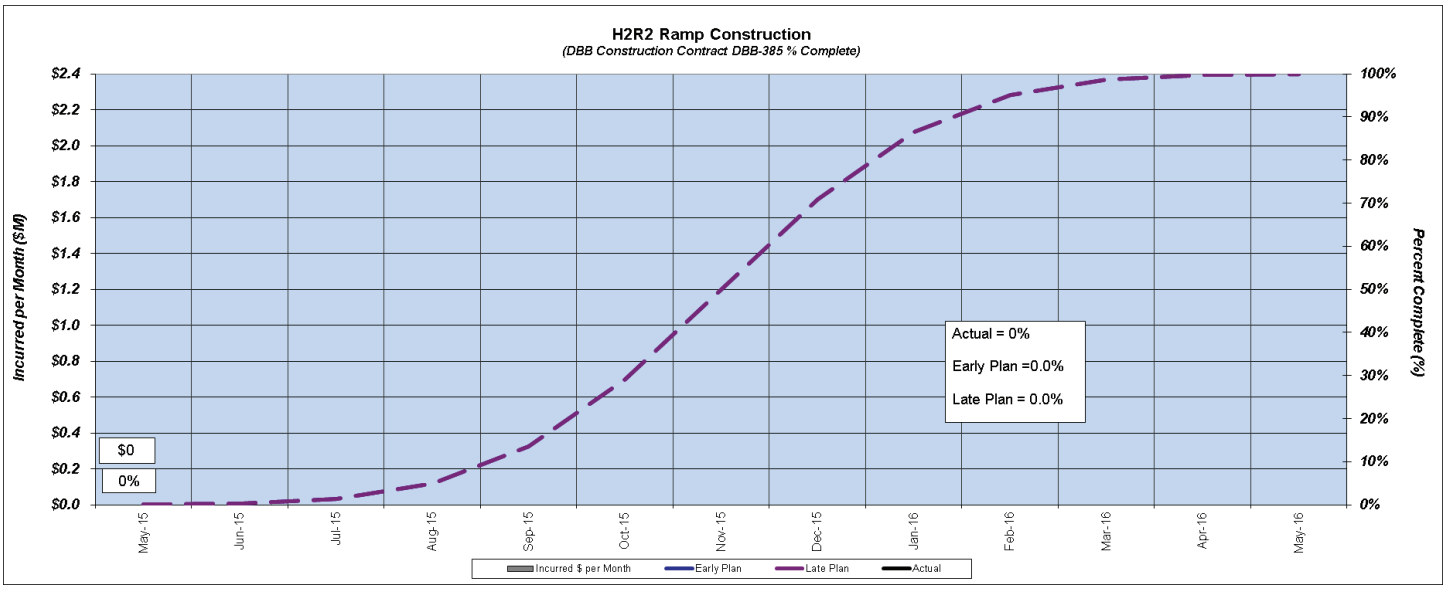
COST INFORMATION:

Original Contract: $5,703,646	Incurred-to-Date: $0
Current Contract Value[1]: $5,203,646	Incurred in June: $0

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

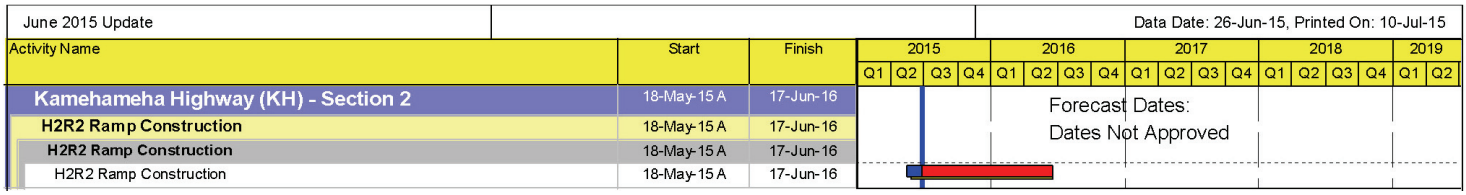
DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

June Change Orders/Amendments		
Change No./Amend	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

SCHEDULE:



CRITICAL PATH ISSUES:

- DPP final review and sign-off on Final Design Documents.
- A Contractor Schedule and Organization Chart were submitted and returned with revisions required.
- Contractor to submit for Permits.

WORK PROGRESS:

Activities this Month:

Earned Value: 0%; Planned Value: 0%

- Contractor to comply with requirements of the General Conditions.
- First construction meeting complete.
- Required Forms, Reports and Certifications being submitted.
- Required CMS software acquired and training completed.

Look Ahead:

- Complete required submittals.
- Site mobilization planned for early August 2015.

KEY ISSUES:

- Contractor to obtain NPDES permit.

C. Kamehameha Highway Station Group (KHSG)

Contract No.: FD-340
Contractor: Anil Verma Associates, Inc. (AVA), Final Design Consultant (Engineer of Record)
Contract Start Date: November 2012
Construction Docs Bid-Ready:
H2R2 Highway Ramp: January 2015 (in construction)
Kamehameha Highway Stations: August 2015

Project Description: The Kamehameha Highway Stations Group FD Contract (KHSG) consists of architectural and engineering services for the design of three (3) transit stations serving the Kamehameha Highway Guideway. The three (3) stations comprising the KHSG contract are the Pearl Highlands Station, the Pearlridge Station, and the Aloha Stadium Station. The Pearl Highlands Station also includes two highway ramps.

Project Overview: The KHSG design has incorporated value engineering changes in preparation for a construction solicitation in August 2015. In addition, the H2R2 Ramp was broken out and expedited under a separate Design-Bid-Build contract that was awarded in May 2015.

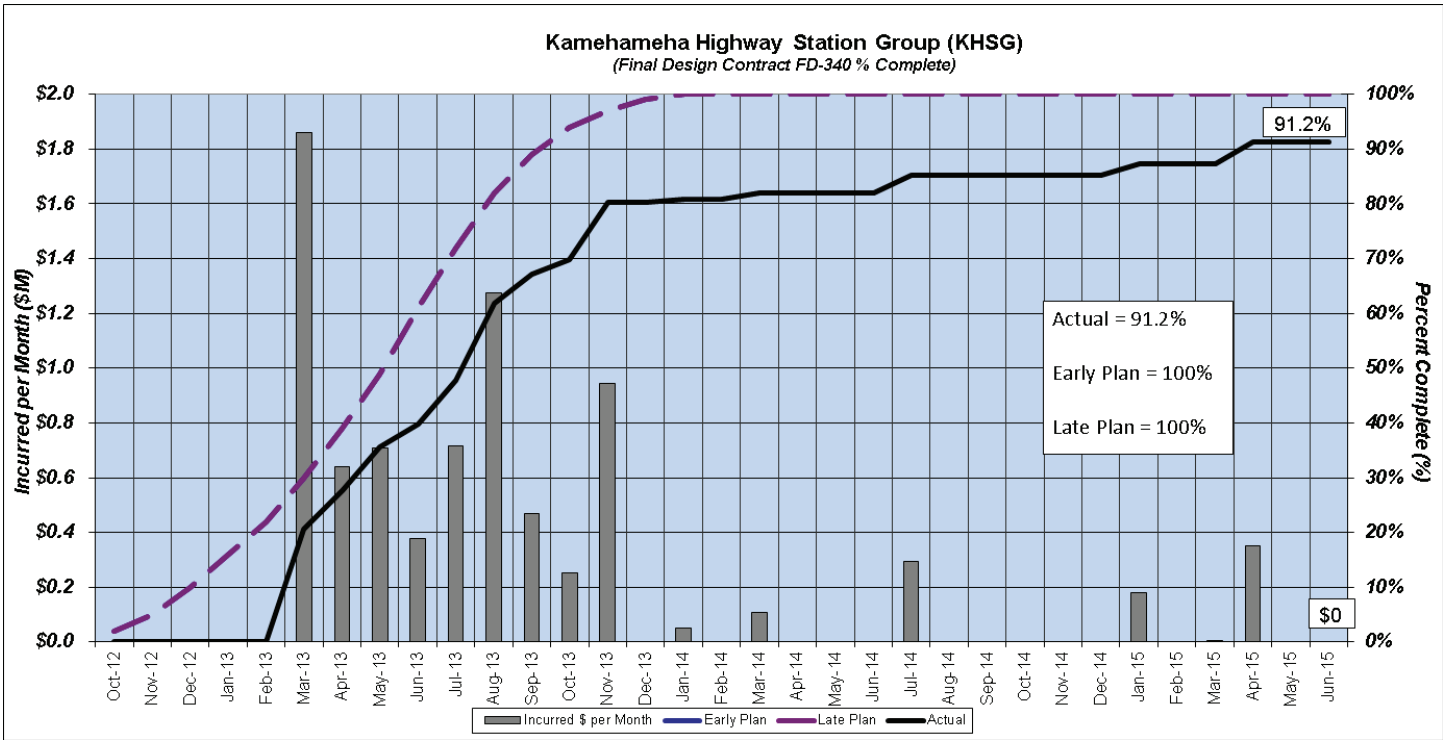
COST INFORMATION:

Original Contract: $8,702,592	Incurred-to-Date: $8,219,319
Current Contract Value[1]: $9,011,768	Incurred in June: $0

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed*

DBE Participation	
Actual DBE Participation:	$3,303,778
DBE % Attained:	37.96%

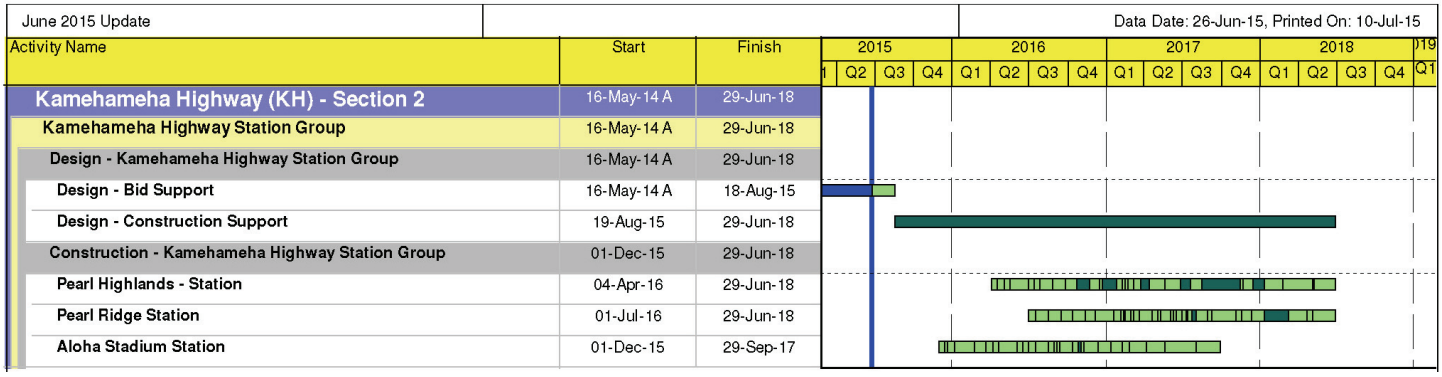
June Change Orders/Amendments		
Change No./Amend	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$352,176**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

The closeout of the KHSG contract is currently 12 months behind its original schedule due to design interfaces with other HART contracts, ongoing value engineering efforts, and a reorganization of the KHSG package from its previous inclusion in the canceled West Side Stations Group solicitation. The schedule for the KHSG design has been extended to accommodate these additional efforts, which are now nearly complete.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is overseeing the finalization of design interface agreements between the final design consultant and the WOFH, CSC and EE contracts.
- HART is overseeing the KHSG final design consultant's resolution of comments received from third parties.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 95%.
- Interfaced design with the CSC, WOFH, KHG and EE contracts.
- Technical peer and third party comments are being incorporated into final design documents.
- Completed independent cost estimate of pre-final design.

Look Ahead:

- Obtain sign-offs of design interface issues.
- Obtain third-party final approvals on remaining construction documents.
- Prepare construction bid package for August 2015 advertisement.

KEY ISSUES:

- Finalizing bid documents prior to construction advertisement.

4.4 Section III – Airport: Aloha Stadium to Middle Street Transit Center Station

A. Airport Section Guideway and Utilities

Contract No.: FD-430
Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)
Contract Start Date: January 2012
Construction Docs Bid-Ready:

- Guideway, Stations and Utilities (DB)
  - RFP Part 1 for DB (Qualifications): Issued April 2015; Due August 2015
  - RFP Part 2 for DB (Proposals): To be issued September 2015

Currently in Construction:

- Airport Section Utilities (DBB-505 - Nan Inc.):
  - Construction NTP issued July 2014

Construction Completed:

- Airport 7-Piers (DBB-525 – Hawaiian Dredging):
  - Project acceptance on May 2, 2015; currently in project closeout

Project Description: The Airport Segment Guideway and Utilities contract consists of 5.2 miles of elevated transit guideway serving four (4) passenger stations, in addition to roadway widening, utility relocation, and other improvements to create space for these transit facilities. Two construction contracts have been split out and expedited from the larger Airport Section package. These two contracts are the expedited Airport Section Utilities (ASU) and expedited Airport 7-Piers (A7). For both of these expedited contracts, the design has been completed and construction is in progress (ASU) or completed (A7). Therefore, the remainder of this section focuses solely on the remaining portions, which have been combined with the Airport Stations in an active design-build procurement.

Project Overview: This section of the guideway has been combined into a single Airport Guideway and Stations (AGS) design-build package. The AGS package is in active procurement.

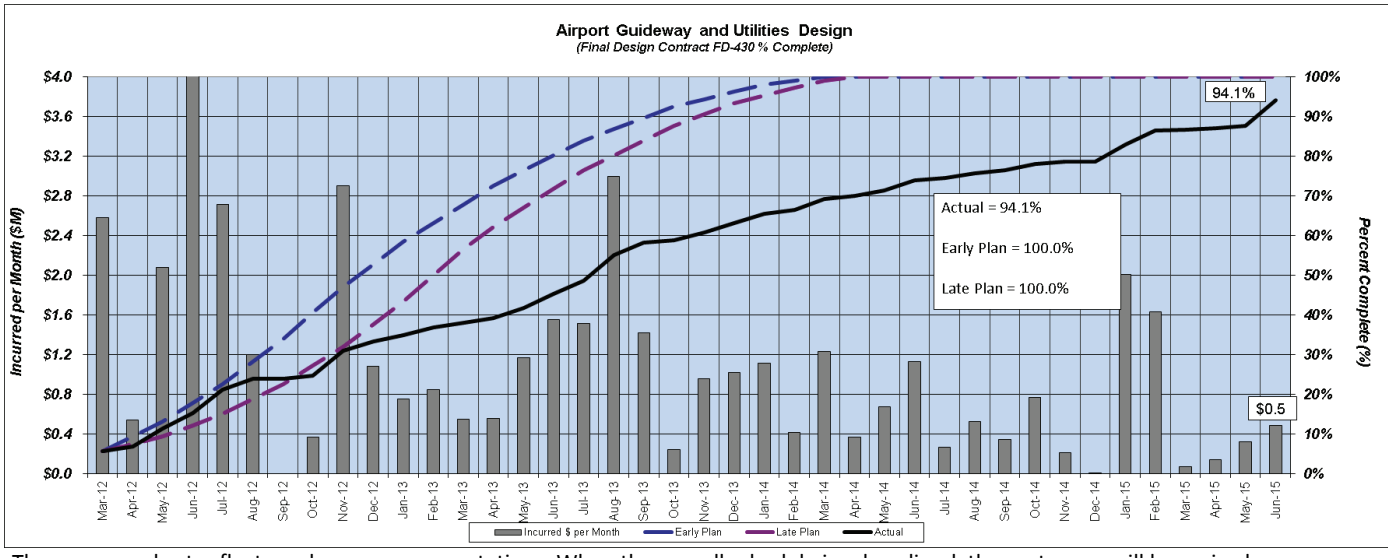
COST INFORMATION:

Original Contract:	$38,840,960	Incurred-to-Date:	$40,587,999
Current Contract Value[1]:	$43,134,472	Incurred in June:	$489,566

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$162,813
DBE % Attained:	0.42%

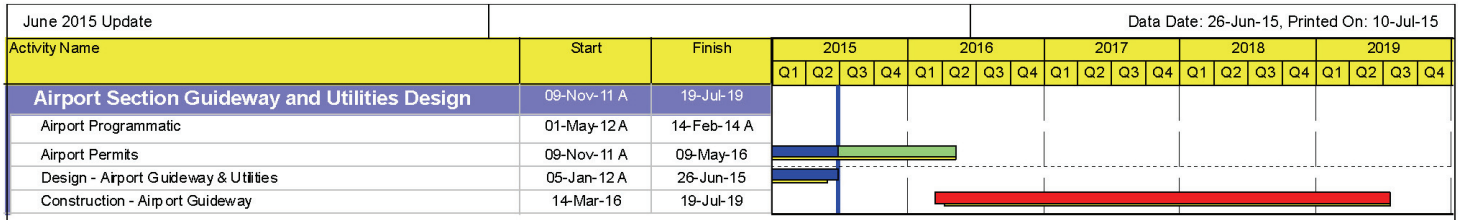
June Change Orders/Amendments		
Change No./Amend	**Description**	**Amount ($)**
CA00013	GET/Airport DB Package	$523,640
	Cumulative to Date	**$4,293,512**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

Due to the change in delivery method from DBB to DB, the final design will not be completed under this contract.

SCHEDULE:



CRITICAL PATH ISSUES:

- The procurement schedule for this contract has shifted slightly since the issuance of RFP Part 1. Procurement must maintain schedule to meet overall program goals.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 97%.
- Expediting right-of-way acquisitions.

Look Ahead:

- Issuance of RFP Part 2 documents for technical and price proposals.

KEY ISSUES:

- HART received the Right of Entry from the U.S. Navy on June 22, 2015. HART's ROW department is now working to obtain final right-of-way documentation.

B. Airport Section Utilities Construction

Contract No.: DBB-505
Contractor: Nan, Inc.
Contract Start Date: July 2014
Contract Substantial Completion: February 2016
Projected Substantial Completion: April 2016

Project Description: The Airport Utilities contract consists of relocation of a portion of utilities and some utility facilities that will be impacted by the construction of the HART aerial guideway and associated facilities between Aloha Stadium and Middle Street Transit Center. Specifically, the work involves construction of utility relocations affecting underground and overhead communications lines, Navy-owned electrical lines, fuel lines, gas lines, water lines, storm sewer lines, sanitary sewer lines and street light lines and poles/fixtures; HECO work is excluded from this contract. The work also includes installation of ITS (Intelligent Transportation Systems) facilities, to maintain traffic during construction, and other site improvements. Erosion control measures, temporary planting, permanent irrigation facilities and restoration of existing facilities are also incorporated into the contractor's scope of work.

Project Overview: Nan, Inc. continues with utility relocation work along Kamehameha Highway. ITS installation work along Kamehameha and Nimitz Highways is ongoing and should be online within a months' time. Utility work was impacted due to lack of Navy ROE, however ongoing coordination with the Navy has allowed them to grant access. Details are still being finalized at this time. Meanwhile, Nan, Inc. continues to develop and submit outstanding submittals.

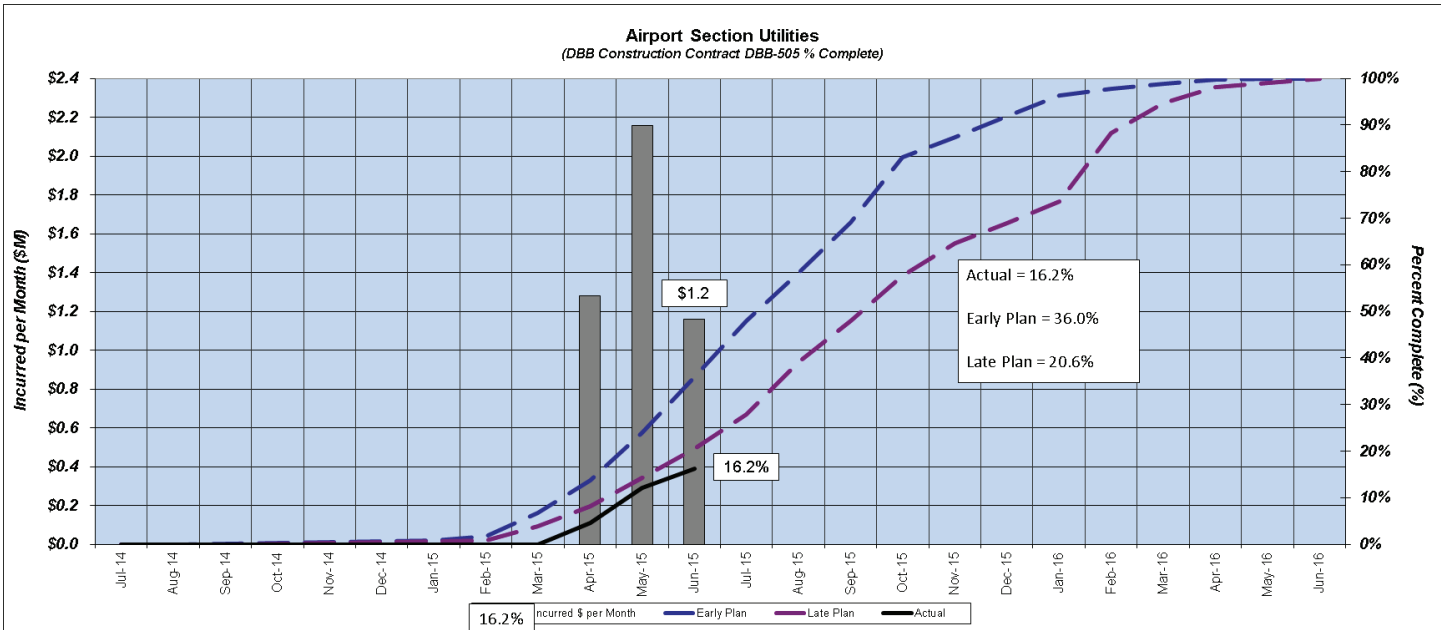
COST INFORMATION:

Original Contract:	$28,413,974	Incurred-to-Date:	$4,595,193
Current Contract Value[1]:	$28,413,974	Incurred in June:	$1,159,091

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

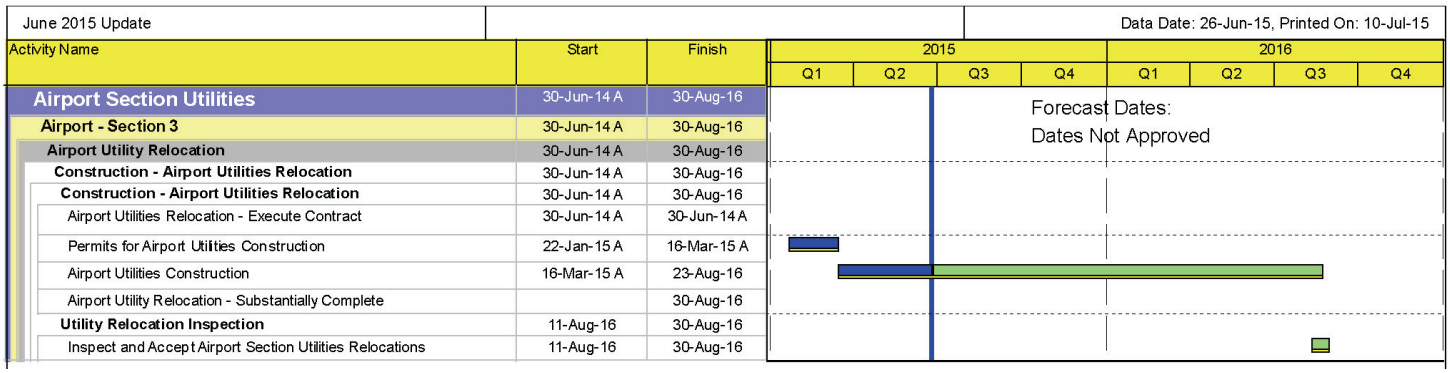
DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

SCHEDULE:



CRITICAL PATH ISSUES:

- Noise variance (see key issues for details).

WORK PROGRESS:

Activities this Month:

Earned Value: 8.82%; Planned Value: 16.78%

- Nan, Inc. has received approved permits to work in DOT-Airport property. (revocable staging permit still pending)
- Nan, Inc. is finalizing the installation of license plate reader (LPR) cameras and is in the process of coordinating to bring them online.
- Nan, Inc. has submitted a baseline construction schedule, which has been approved. They are working on a revised baseline schedule based on deductive RFCRs that have been issued.
- Inspection and Testing Plan (ITP) has been submitted by Nan and returned by HART with comments.

Look Ahead:

- Ongoing utility work on Kamehameha Highway (24-inch waterline, telecom duct line and gas line).
- Ongoing utility work along Nimitz Highway at the off-ramp and Valkenburgh (drain line, duct work, and waterlines including irrigation).
- With the recent consent to work on Navy ROE, Nan plans to begin work on the waterline connection.

KEY ISSUES:

- Nan has submitted a construction delay claim due to the delay in access to Navy right of entry to perform work.
- Nan, Inc. is presently 5 months behind schedule; due to the delay in access to Navy facilities.
- Noise variance to perform night work is pending DOH approval.

QUALITY MANAGEMENT:

- **Sewer Manhole (NCR #2)** – pre-cast risers for sewer sustained damages during handling and has been repaired**.** This NCR is now closed.
- **BMP Installations (NCR #3)** – BMP were not installed prior to work commencing at a new location. This issue was addressed with subcontractors. This NCR is now closed.
- **Water Manhole Pipe Collars (NCR #4)** – pipe collars were not constructed in accordance with the standard details. Collars were demolished and reconstructed in accordance with standard details. This NCR will be closed.
- **Sewer Manhole to Jacket Connection (NCR #5)** – sewer manhole was precast with the wrong wall thickness making it unable to accommodate rebar tie-in from sewer jacket. Addition of pipe collar was proposed by the contractor and approved by the Engineer of Record. This NCR is now closed.
- **Lane Closures Beyond Allowed Time (NCR #6)** – concrete pour ran late and lanes were opened 2 hours and 40 minutes late.
- **Concrete Sewer Jacket Repair (NCR #7)** – some of the concrete sloughed off when the contractor removed trench shoring. Concrete was chipped out and removed in the affected area and the concrete was re-poured.
- **Lane Closures Beyond Allowed Time #2 (NCR #8)** – paving ran late and lanes were opened 1 hour and 20 minutes late**.**

Airport Utilities NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
8	4	4

C. Airport Section Guideway Seven Pier Construction

Contract No.: DBB-525
Contractor: HDCC/CJA JV
Contract Start Date: September 2014
Contract Substantial Completion: April 24, 2015
Declared Substantial Completion: April 22, 2015

Project Description: The Airport 7-piers contract consists of seven drilled shaft foundations installed within the Honolulu International Airport Parking lot "J", where the new Interim Car Rental Facility (CONRAC) is also being constructed. The contractor has installed seven foundations for piers 546, 547, 548, 549, 550, 551R and 552R. This work involved close coordination with the HDOT Airport and Kiewit, who is the contractor for CONRAC. In addition to the pier work, existing utility relocations have been included at Piers 546, 548, 549 and 550, under Change Amendment 1.

Project Overview: HDCC/CJA JV substantially completed the project on April 22, 2105. The site, along with maintenance of existing BMPs and traffic control measures were turned over to the HDOT-A. Generated punch list items were completed and accepted as of May 2, 2015, by HDOT-A.

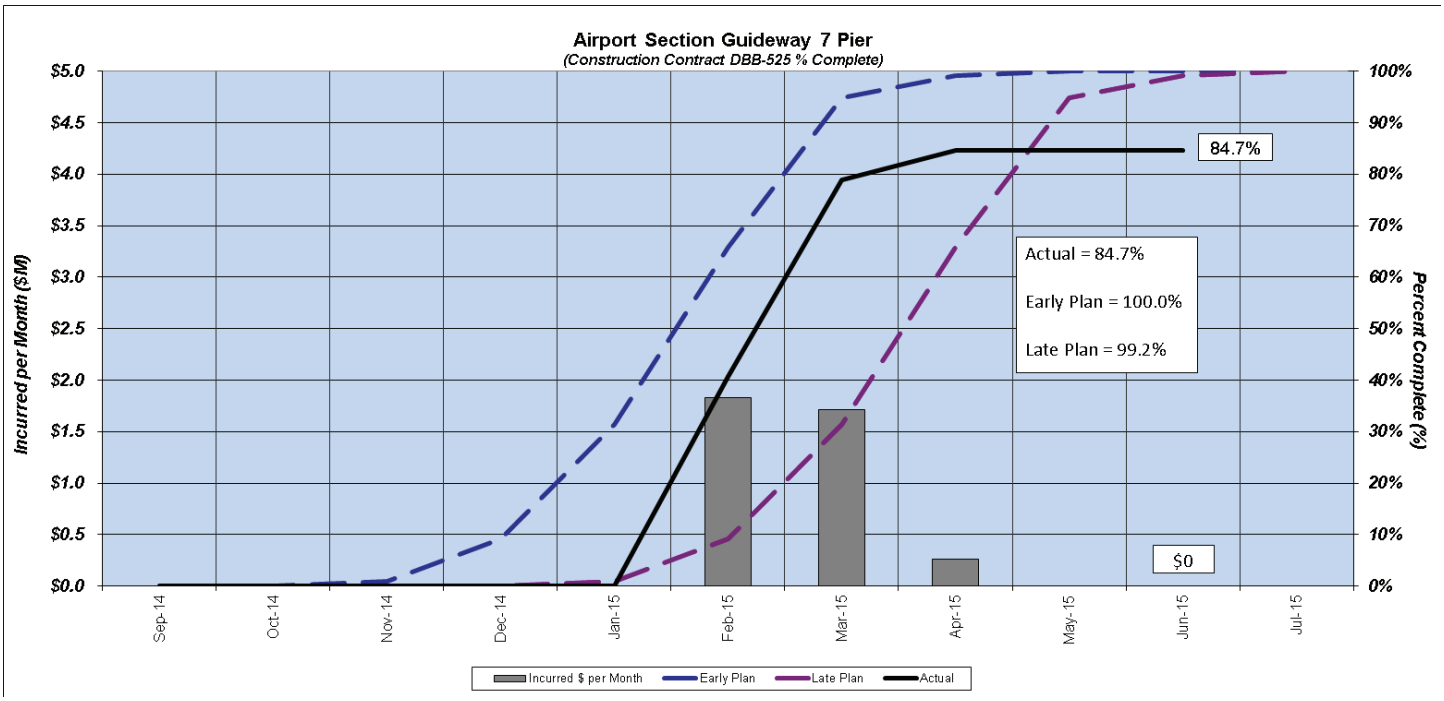
COST INFORMATION:

Original Contract:	$3,973,000	Incurred-to-Date:	$3,796,241
Current Contract Value[1]:	$4,481,241	Incurred in June:	$0

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$17,378**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

CRITICAL PATH ISSUES:

- None - All work has been complete; currently in the processes of closing the contract out.

WORK PROGRESS:

Activities this Month:

Earned Value: 100%; Planned Value: 84.7%

- As-builts are currently being finalized.

Look Ahead:

- Final CMS processing of open RFI's.
- HART is processing HDCC/CJA JV submitted cost estimates for:
  - Change proposal for Temporary Fill at Piers 551R and 550.
  - Double handling of drilling spoils.
  - Additional core sample test to confirm Pier 551R concrete.
- HDCC/CJA JV is to submit the following additional costs RFCCs:
  - Force Account Sheets for Pier 550 Utility conflicts.
  - Force Account Sheets for Pier 548 Utility conflicts.
  - Cost Proposal for extra surface work (concrete curbs and paving) at Piers 552R, 551R, 550, 547 and 546 due to lowering of CMP casings as required by response to RFI 016.
- HDCC/CJA JV has the following items to submit for Contract Closeout:
  - Complete entering Certified Payrolls to LCP Tracker.
  - Complete entry of HDCC/CJA JV daily report into CMS.
  - Provide Release of Liens.
  - Submit final DBE forms.
  - Submit a number of documents to closeout BMP and Environmental issues.
  - Submit final invoice.

KEY ISSUES:

- HDCC/CJA JV to submit Red Line As-Built Drawings; to be included in the Airport Guideway and Stations DB contract.

D. Airport Station Group (ASG)

Contract No.: FD-440
Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)
Contract Start Date: November 2012
Construction Docs Bid-Ready:

- Airport Guideway and Stations DB
  - RFP Part 1 for DB (Qualifications): Issued April 2015
  - RFP Part 2 for DB (Proposals): September 2015

Project Description: Architectural and engineering services for the design of four (4) transit stations serving the Airport Guideway. The four (4) stations comprising the ASG contract are the Pearl Harbor Naval Base Station, the Honolulu International Airport Station, the Lagoon Drive Station, and the Middle Street Station.

Project Overview: These four stations have been combined with the guideway into a single Airport Guideway and Stations Design-Build (DB) package. This package is in active procurement.

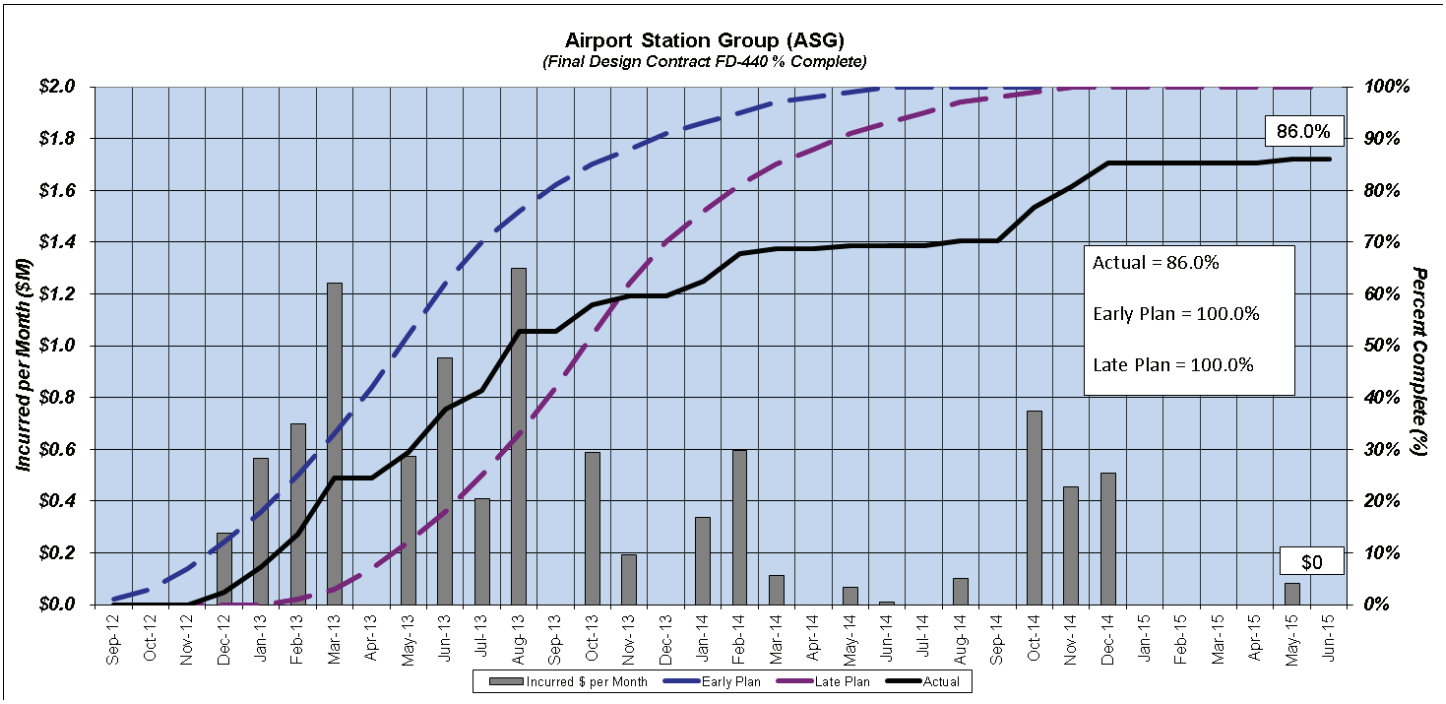
COST INFORMATION:

Original Contract:	$10,177,365	Incurred-to-Date:	$9,801,978
Current Contract Value[1]:	$11,402,205	Incurred in June:	$0

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$234,761
DBE % Attained:	2.31%

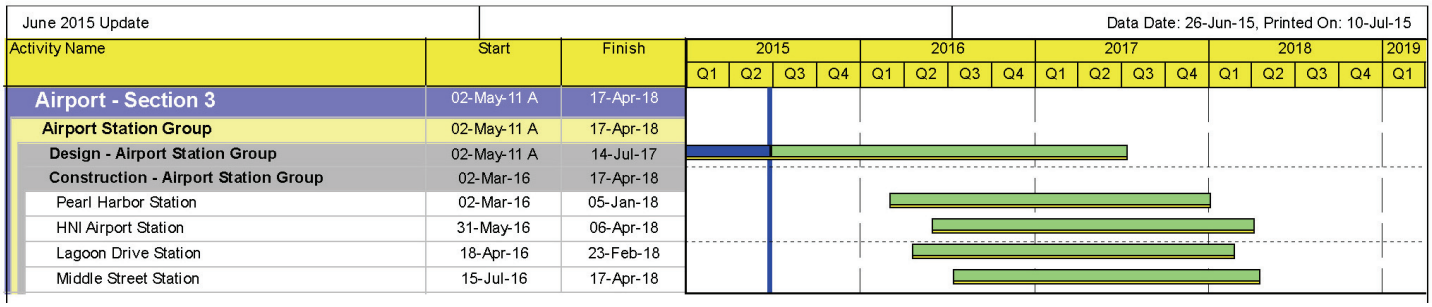
June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$1,244,840**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

Due to the change in procurement strategy from DBB to DB, the design of the Airport Stations Group will not be advanced to completion under this contract.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is pursuing access to a small number of remaining properties.
- HART is coordinating with project stakeholders to identify a potential new location of the AM radio tower currently located near Middle Street Station.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 88%.
- Supporting preparation of Airport Guideway and Stations procurement package.

Look Ahead:

- Issue RFP Part 2 package for technical and price proposals.
- Finalize AM antenna relocation plan.

KEY ISSUES:

- Maintain schedule and deliver on all HART responsibilities under the future contract.

4.5 Section IV – City Center: Middle Street Transit Center Station to Ala Moana Center

A. City Center Section Guideway and Utilities

Contract No.: FD-530
Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)
Contract Start Date: July 2012
Construction Docs Bid-Ready:

- Guideway, Stations and Utilities (DB)
  - RFP Part 1 for DB (Qualifications): August 2015
  - RFP Part 2 for DB (Proposals): November 2015
- Potential Expedited Utilities Package (DBB): TBD

Project Description: The City Center Guideway and Utilities final design contract consists of 4.2 miles of elevated transit guideway serving eight (8) passenger stations, in addition to roadway widening, utility relocation and other improvements to facilitate construction of the guideway.

Project Overview: This section of the guideway will be combined with eight (8) stations into a single City Center Guideway and Stations Design-Build package scheduled to be advertised in late 2015. An expedited package consisting of early utility and roadway widening work is being considered.

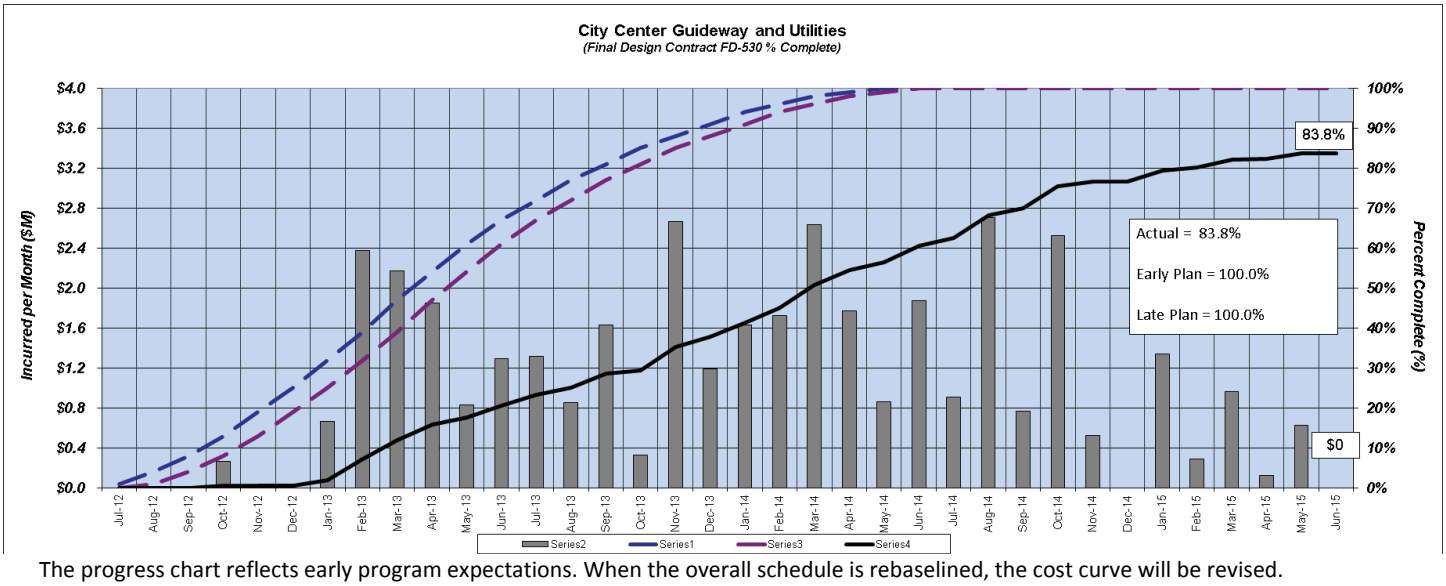
COST INFORMATION:

Original Contract: $43,948,220	Incurred-to-Date: $38,685,248
Current Contract Value[1]: $46,183,523	Incurred in June: $0

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$191,227
DBE % Attained:	0.44%

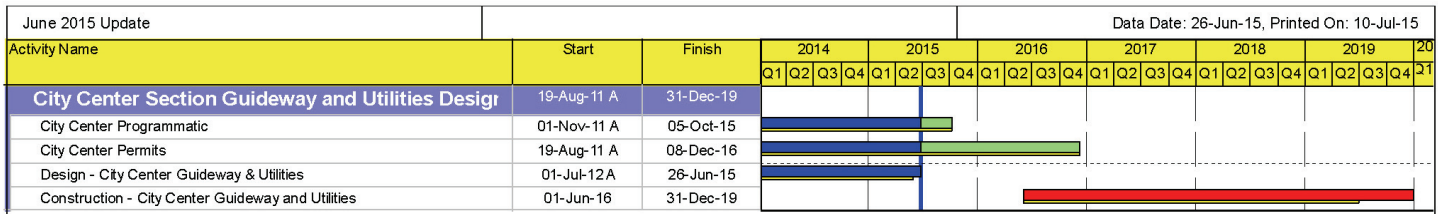
June Change Orders/Amendments		
Change No./Amend	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$1,282,803**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

Due to the change in delivery method from DBB to DB, the final design will not be completed under this contract.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is evaluating the scope of civil and utility work that can be expedited in a separate DBB package.
- HART is overseeing coordination between final design consultant AECOM and critical third parties.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 92%.
- Coordinating with HDOT, HECO and other stakeholders.
- Pursuing rights-of-way and rights of entry.

Look Ahead:

- Obtain third-party approvals of design concepts.
- Determine appropriate scope to include in expedited utilities package.
- Finalize requirements for DB bid package.

KEY ISSUES:

- Coordinating with HECO to establish appropriate clearance requirements for electrical lines.

B. Dillingham and Kaka'ako Station Group (DKSG)

Contract No.: FD-550
Contractor: Perkins+Will (P+W), Final Design Consultant (Engineer of Record)
Contract Start Date: August 2013
Construction Docs Bid-Ready:

- Guideway, Stations and Utilities
  - RFP Part 1 for DB (Qualifications): August 2015
  - RFP Part 2 for DB (Proposals): November 2015

Project Description: Design of eight (8) stations for the fourth and final phase of the current project that will connect Dillingham Boulevard to Ala Moana Center.

Project Overview: The DKSG stations are being combined with the City Center Guideway into a single City Center Guideway and Stations Design-Build package.

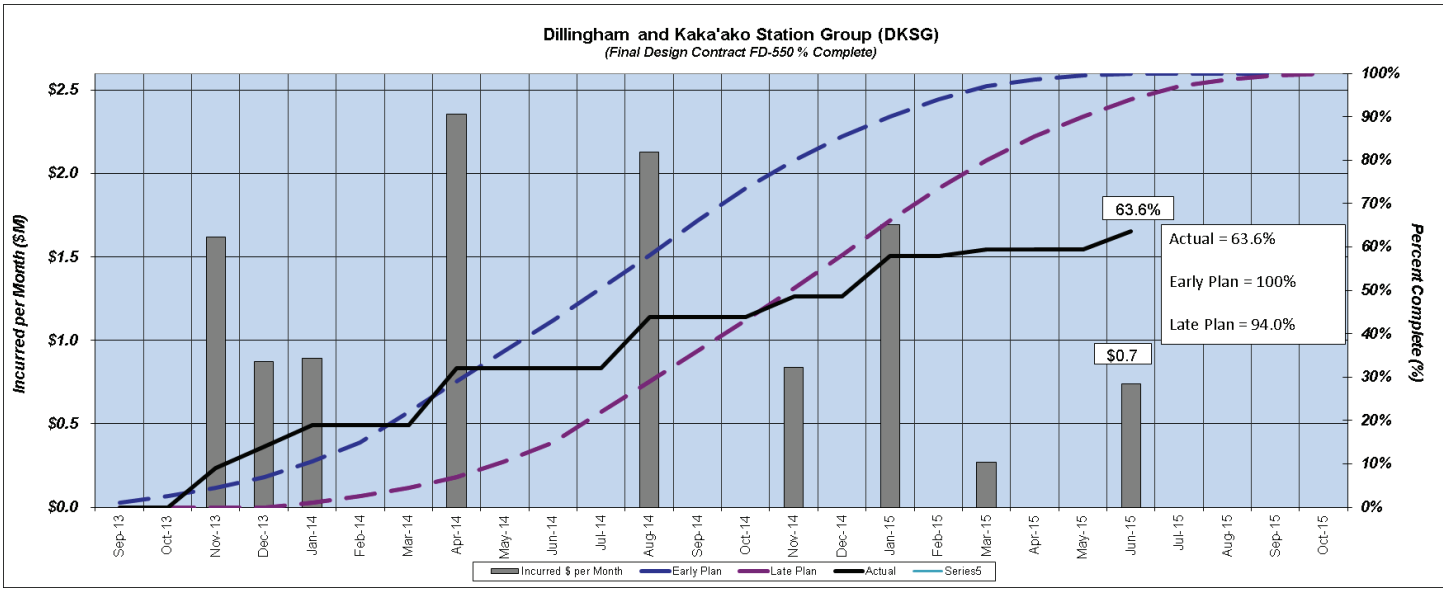
COST INFORMATION:

Original Contract: $18,321,918	Incurred-to-Date: $11,407,057
Current Contract Value[1]: $18,974,447	Incurred in June: $739,557

[1] *Current Contract Value = Original contract value (not including contingency) with Design Allowance + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

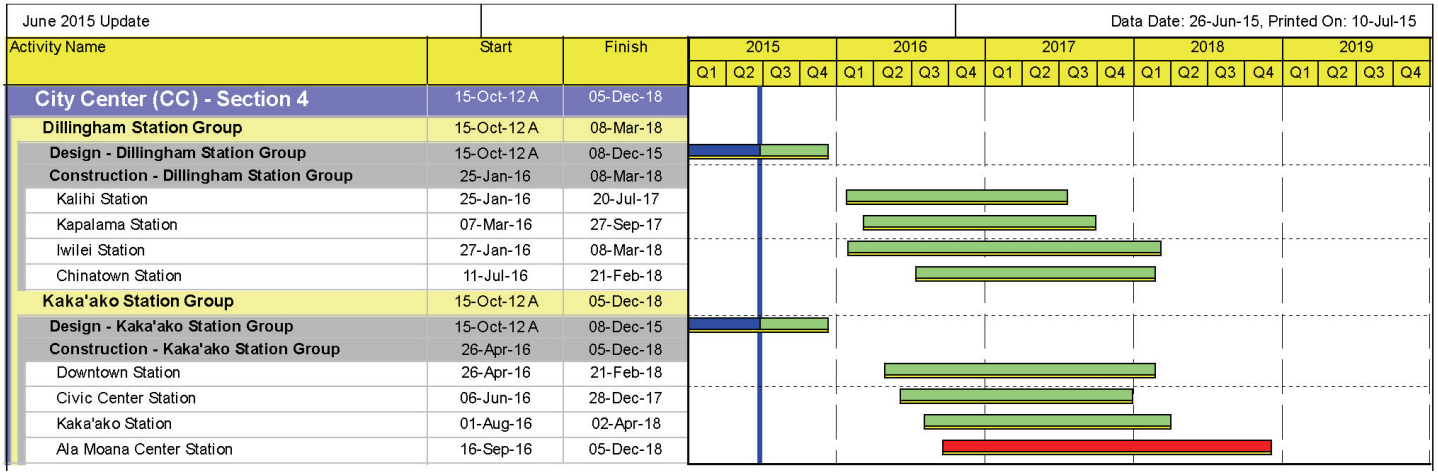
June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$713,148**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

HART has closed final design consultant activities. Incurred cost is based on reconciliation of Project Management and Interface Management (PMIM) from October 2014 when the contract expired. Ongoing and forecasted efforts are summarized below.

SCHEDULE:



June 2015 Update — Data Date: 26-Jun-15, Printed On: 10-Jul-15

Activity Name	Start	Finish
City Center (CC) - Section 4	15-Oct-12 A	05-Dec-18
Dillingham Station Group	15-Oct-12 A	08-Mar-18
Design - Dillingham Station Group	15-Oct-12 A	08-Dec-15
Construction - Dillingham Station Group	25-Jan-16	08-Mar-18
Kalihi Station	25-Jan-16	20-Jul-17
Kapalama Station	07-Mar-16	27-Sep-17
Iwilei Station	27-Jan-16	08-Mar-18
Chinatown Station	11-Jul-16	21-Feb-18
Kaka'ako Station Group	15-Oct-12 A	05-Dec-18
Design - Kaka'ako Station Group	15-Oct-12 A	08-Dec-15
Construction - Kaka'ako Station Group	26-Apr-16	05-Dec-18
Downtown Station	26-Apr-16	21-Feb-18
Civic Center Station	06-Jun-16	28-Dec-17
Kaka'ako Station	01-Aug-16	02-Apr-18
Ala Moana Center Station	16-Sep-16	05-Dec-18

CRITICAL PATH ISSUES:

- HART is pursuing property rights and coordinating station designs with surrounding developments.
- HART is coordinating with the final design consultant to support the preparation of the DB bid package.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 68%.
- Ongoing coordination with private developers and other project stakeholders.
- Advanced ROW discussions for Downtown Station.
- Ongoing Civic Center Tri-Party agreement with Stanford Carr and Kamehameha Schools.

Look Ahead:

- Pursue potential Transit-Oriented Development (TOD) opportunities.
- Support ROW acquisition efforts with design input.
- Prepare for DB bid package.

KEY ISSUES:

- Evaluating additional cost reduction alternatives for incorporation into DB solicitation package.
- Acquiring rights-of-way and obtaining stakeholder agreements.

4.6 Project-Wide

A. Program Management Support Consultant-2 (PMSC-2)

Contract No.: MM-901
Contractor: InfraConsult LLC
Contract Start Date: March 8, 2012
Contract Completion: March 7, 2016, with option to renew contract one additional year

Project Description: Provide program management support services in the areas of elevated guideway engineering, rail station design, construction management, project management, environmental planning, federal programmatic requirements, and other services for the Honolulu Rail Transit Project.

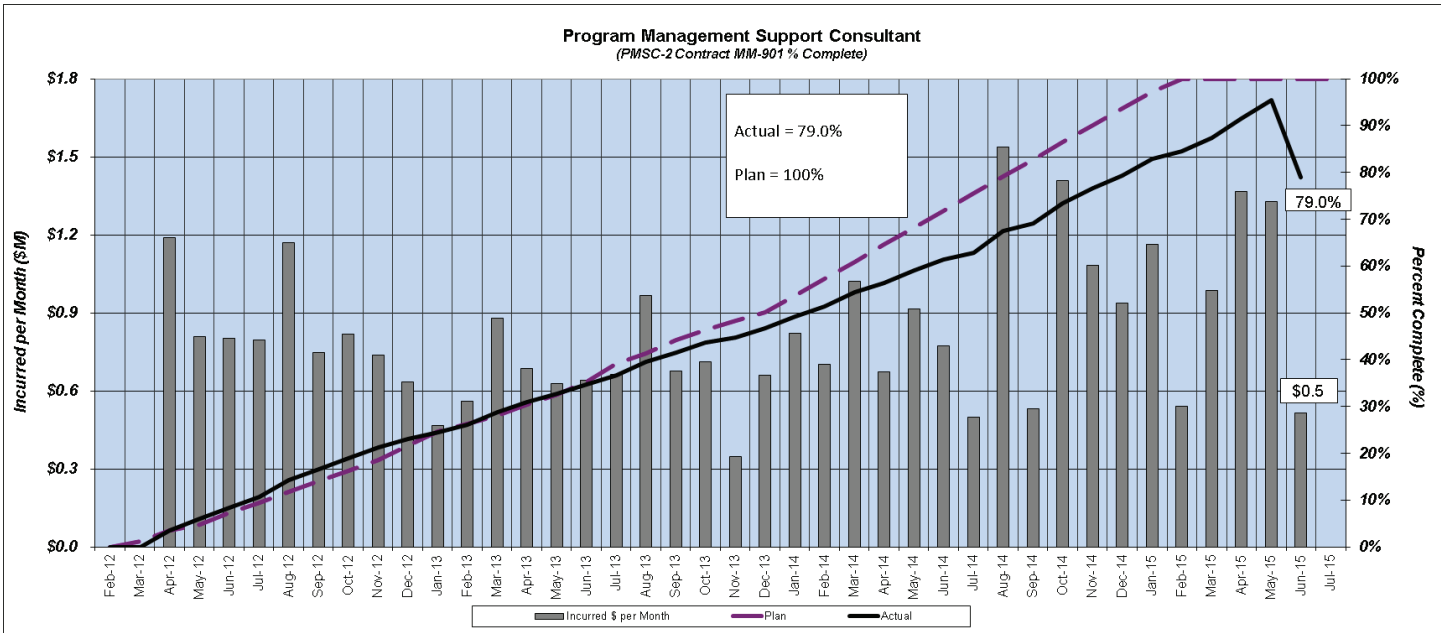
COST INFORMATION:

Original Contract: $33,376,897	Incurred-to-Date: $32,390,284
Current Contract Value[1]: $40,993,274	Incurred in June: $513,985

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

June Change Orders		
Change No.	**Description**	**Amount ($)**
CA00004	Contract Amendment #00004	$7,616,377
	Cumulative to Date	**$7,616,377**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

KEY ISSUES:

- No Issues.

B. General Engineering Consultant III (GEC-3)

Contract No.: MM-913
Contractor: CH2M HILL
Contract Start Date: December 2013
Contract Completion: April 5, 2019, with option to extend for up to three (3) additional years

Project Description: HART GEC III support services include: schedule and estimating, interface coordination and management, environmental and planning, design management services, and program management (aka GEC III contract management).

Project Overview: The GEC III is supporting HART with procurement packages and with design review, review of independent cost estimates, evaluation of east segment schedules, and developing Hawaiian Electric Facility avoidance and minimization impact alternatives.

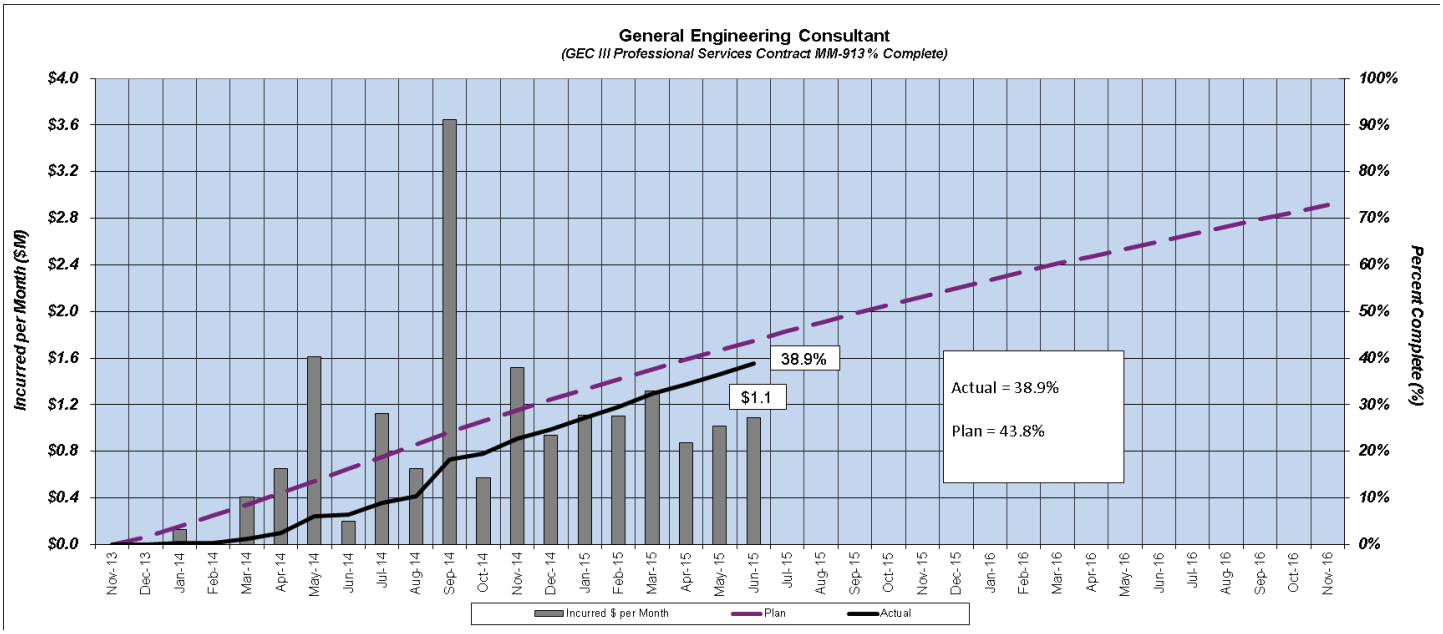
COST INFORMATION:

Original Contract: $46,143,277	Incurred-to-Date: $17,953,530
Current Contract Value[1]: $46,143,277	Incurred in June: $1,090,175

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$1,138,830
DBE % Attained:	2.47%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

KEY ISSUES:

- Integrating schedule estimates for interim opening and revenue service opening with financial forecast and estimate to complete of contracted work.
- Conduct interface risk assessment for West O'ahu Station Group and prepare final summary for presentation.
- Participate in task force to develop alternatives to meet clearance requirements for Hawaiian Electric facilities.
- Provide support to procurement for KHSG, Airport Guideway and Stations (AGS), and City Center Guideway and Stations.

C. Construction Engineering & Inspection West Side Sections

Contract No.: MM-290
Contractor: PGH Wong Engineering, Inc.
Contract Start Date: January 2014
Contract Completion: January 2020
Projected Substantial Completion: December 2018

Project Description: The West Side Section CE&I (West CE&I) team is providing Construction Engineering and Inspection Services (CE&I) for the West Section, which includes aerial guideway, stations, maintenance & storage facility, and garage & transit center from East Kapolei in West O'ahu to Aloha Stadium, of the 20-mile Honolulu Rail Transit Project (HRTP) for the Honolulu Authority for Rapid Transportation (HART).

The West CE&I team provides HART staff augmentation for construction management and administration services to monitor and observe the design-build and design-bid-build construction work such that the projects are constructed in general conformity with the plans, specifications, and special provisions for the WOFH, KHG, MSF, WSSG and PHGT contracts. These CE&I services also include: constructability review, resident engineering, on-site field oversight, project controls, scheduling review, change management, cost control, document controls, contract administration, construction cost estimating, environmental monitoring, surveying, material testing, interface coordination and claims analysis.

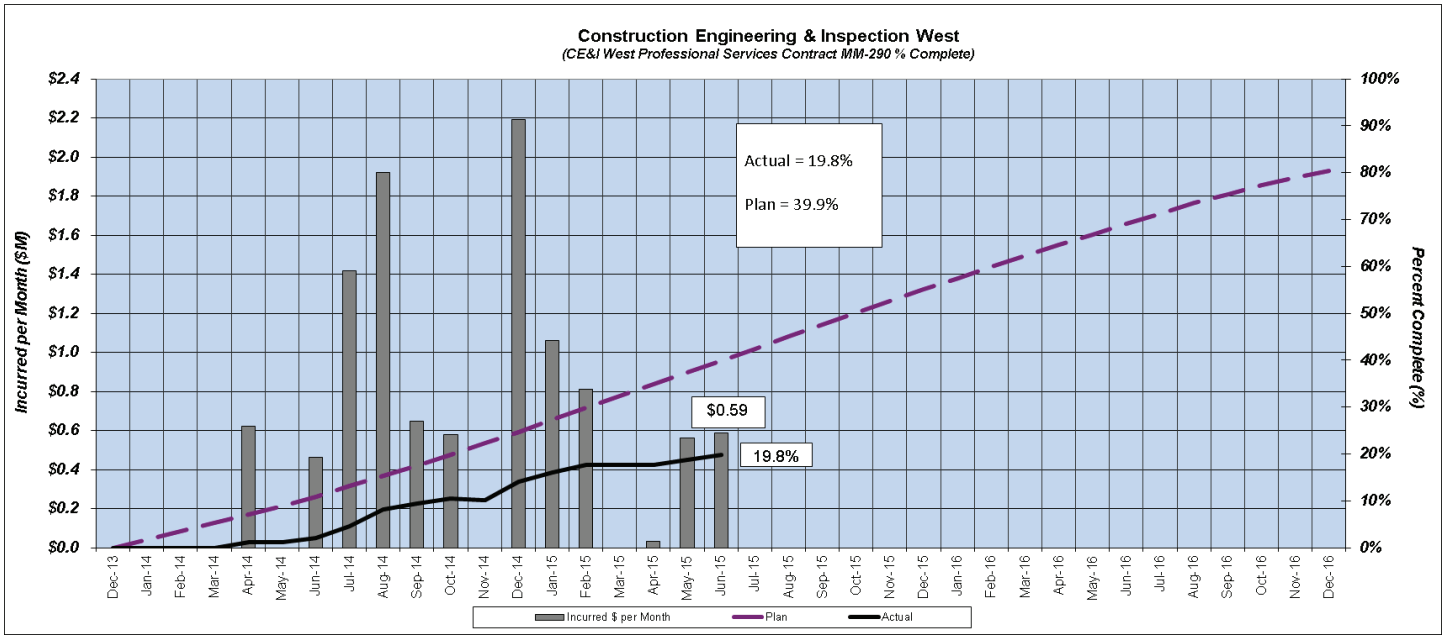
COST INFORMATION:

Original Contract: $54,232,480	Incurred-to-Date: $10,730,387
Current Contract Value[1]: $54,232,480	Incurred in June: $589,623

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$831,108
DBE % Attained:	1.53%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

KEY ISSUES:

- In the process of procuring a combined field office space to support the staffing requirements for the west section station group's multiple procurement contracts. A contract amendment will be required to increase the other direct cost reimbursement allowance.
- Recent schedule discussions on guideway contracts need to also be aligned with anticipated West CE&I staffing durations.

D. Construction Engineering & Inspection East Side Sections

Contract No.: MM-595
Contractor: URS Corporation
Contract Start Date: January 2014
Contract Completion: December 2018 (anticipated September 2015, due to conflict of interest)
Projected Substantial Completion: August 2018

Project Description: The URS team is providing Construction Engineering and Inspection Services (CE&I) for the east section of the Honolulu Rail Transit Project (HRTP) for the Honolulu Authority for Rapid Transportation (HART). The HRTP will construct a 20-mile passenger rail system connecting East Kapolei in west O'ahu to Ala Moana Center in Honolulu's dense urban core.

The URS team is providing services from the preconstruction phase through construction closeout. CE&I services include: constructability review, resident engineering, construction observation, project controls, scheduling, change management, cost control, document controls, contract administration, estimating, environmental monitoring, surveying, material testing, interface coordination, geographic information system (GIS) support and claims analysis. The primary role of the URS team is to inform the HART project manager of any significant omissions, substitutions, defects, and deficiencies noted in the work of the contractor and the corrective action that has been directed by HART to be performed by the contractor.

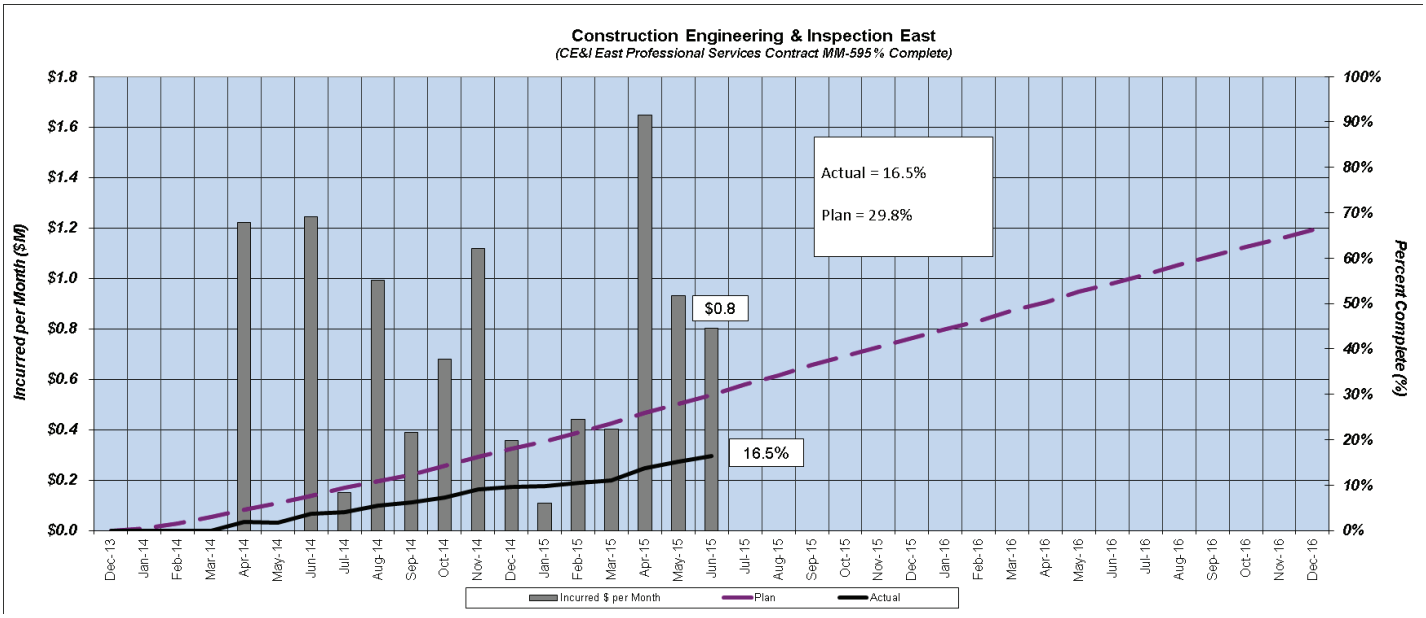
COST INFORMATION:

Original Contract: $63,083,417	Incurred-to-Date: $10,391,370
Current Contract Value[1]: $63,083,417	Incurred in June: $801,137

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$1,042,624
DBE % Attained:	1.65%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

KEY ISSUES:

- Construction activity has resumed on ASU with the resolution of the Navy ROE/ROW issue. Nan is looking to expedite the construction in an effort to complete prior to Jan. 1, 2016.
- Final project closeout of the A7 Shafts project is expected to be complete by Aug. 15, 2015.
- HART is still evaluating the opportunity to prepare advanced construction packages for roadway and utility work within the City Center section of the project to help with the overall program schedule.
- The selection for the new CE&I consultant for the East Section is currently in procurement with a scheduled NTP in August 2015. The URS team is prepared to immediately begin a transfer of information, and identify a transition plan to allow for great success by the new CE&I. These activities are expected to occur from NTP through September 2015.

E. Core Systems Contract Oversight Consultant

Contract No.: MM-962
Contractor: Lea+Elliott, Inc.
Contract Start Date: February 2014
Contract Completion: August 2019
Projected Substantial Completion: N/A

Project Description: Provide professional services for design and construction management and testing/commissioning of the Core Systems Design-Build-Operate-Maintain (DBOM) contract. The major systems of the Core Systems DBOM contract are the vehicles, automated train control (ATC) system, traction electrification system, communications system, and platform screen gate system (PSGS). Services include review and approval of design submittals, manufacturing oversight, installation oversight, operation/maintenance design oversight and support, system testing/acceptance, and contract close-out.

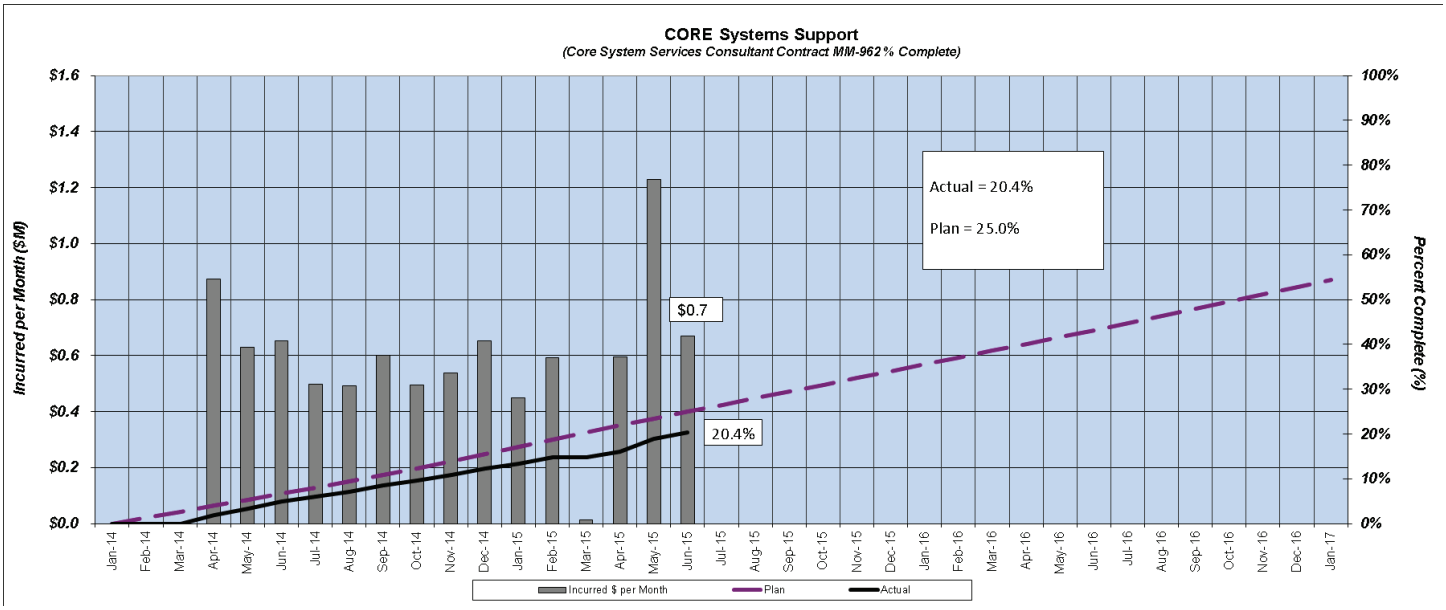
COST INFORMATION:

Original Contract: $43,988,989	Incurred-to-Date: $8,979,059
Current Contract Value[1]: $43,988,989	Incurred in June: $669,245

[1] *Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$222,400
DBE % Attained:	0.51%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$0**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

KEY ISSUES:

- Coordination with other contractors on construction access milestones.
- Review and acceptance of procedures for factory acceptance tests.
- Design review completion with respect to manufacturing fabrication and test schedule.

F. On-Call Construction Contractor

Contract No.: MM-945
Contractor: Royal Contracting Co. Ltd.
Contract Start Date: August 2014
Contract Completion: July 2019
Projected Substantial Completion: The On-Call Contract is Task Order based with each Task Order having a specific Substantial Completion date.

Project Description: The On-Call Contract performs tasks not generally covered in the general construction contracts. These activities include demolition of structures; repairs to existing HART facilities; relocation of trees and other minor facilities such as bus stops, street lighting, etc.; minor civil/utility work, and repair of third-party facilities such as road repair/patching as requested by HDOT in the HART right-of-way and as allowed by third-party agreements. The intent of the On-Call Contract is to provide HART a contractual tool to address those required work items not easily addressed by the general contractors working to specific scopes.

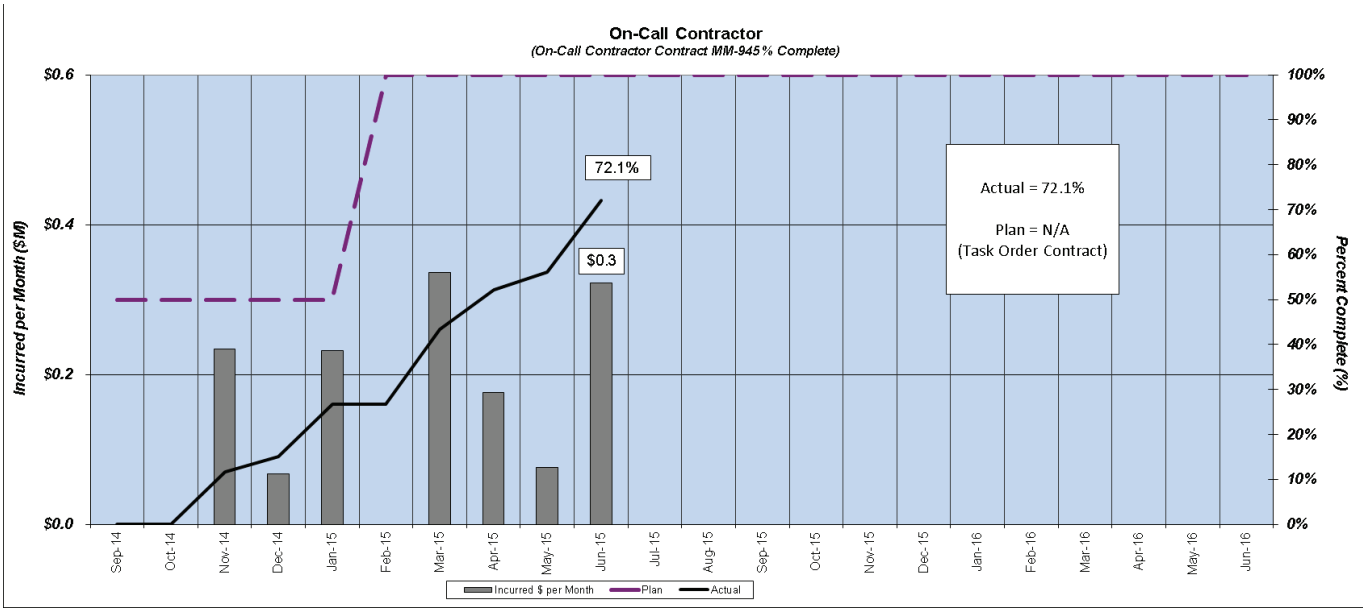
COST INFORMATION:

Original Contract:	$1,000,000	Incurred-to-Date:	$1,442,879
Current Contract Value[1]:	$1,999,951	Incurred in June:	$322,376

[1]*Current Contract Value = Original contract value (not including contingency) + executed Change Orders*

DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

June Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**($49)**



The progress chart reflects early program expectations. When the overall schedule is rebaselined, the cost curve will be revised.

KEY ISSUES:

- The On-Call Contractor has successfully:
  - demolished twenty four buildings located in the WOFH, KHG and City Center right-of-way
  - relocated/removed more than 70 trees in the Airport right-of-way. An additional 100 trees have now been approved for relocation/removal. The scheduling of this work is in process.
  - repaired/protected multiple facilities owned by HART
- The On-Call Contractor is in the process of working with HART's right-of-way group and owners in providing cost to cure solutions to properties which will need modification in achieving cleared right-of-way in the Airport and City Center sections of the guideway.
- Demolition of HART owned facilities in the Airport and City Center sections of the right-of-way has been resolved and demolition activities have resumed. The current schedule now shows that 26 of the 28 buildings targeted for demolition will be completed by the end of August. The two remaining structures are scheduled for demolition in January 2016, as the current tenant has not yet relocated from the building.

5 OVERALL PROJECT-WIDE ACTIVITIES

Permits (Section 5.1)

OVERVIEW

- HART and Kiewit have increased noise monitoring and associated mitigation efforts in order to address resident concerns about noise levels in construction areas along the West O'ahu/Farrington (WOFH) and Kamehameha Highway Guideway (KHG) sections.

KEY ISSUES

- HART continues to work with Hawai'i Department of Health (HDOH) regarding ongoing community noise issues in the WOFH and KHG sections, and is still awaiting issuance of the Airport Community Noise Variance.
- HART is working with the Navy and HDOH on monitoring and mitigation of known contaminated sites along project construction areas.

Hawai'i Department of Transportation (HDOT) Agreements (Section 5.2)

OVERVIEW

- Ongoing coordination for ITS, MOT and final operational expectations.

KEY ISSUES

- Discussions begin with HDOT to include project funding for betterments being requested by HDOT.

Utility Agreements (Section 5.3)

OVERVIEW

- Draft City Center Construction Agreements have been issued to HTI, tw telecom, and Oceanic for review and comment.

KEY ISSUES

- HART continues to address multiple issues with HECO that may affect the design and construction of planned work. HART is continuing to meet with HECO on a weekly basis to resolve the issues. Executive meetings are now being conducted to include HART's Executive Director and CEO, and HECO's President.

Right-of-Way (Section 5.4)

(Data as of July 24, 2015)

OVERVIEW

- Currently, there are no ROW actions impeding construction work, although the ROW team continues to seek site access or full acquisition to ensure construction is not delayed. HART is working to obtain access to all ROW parcels that are necessary for construction. It appears that some parcels may require eminent domain.
- Navy consent has been obtained for HART to construct on their property and facilities.

KEY ISSUES

- Working to resolve third-party agreements with UH in order to allow construction to proceed without delay.
- HART proposed the use of irrevocable right of entry documents (Right-of-Entry, Possession and Use Agreement) to gain control of a parcel prior to eminent domain. However, the use of the irrevocable right of entry has been delayed due to concerns expressed by owners regarding liability arising from third parties. This approach is a modification of the current procedures, and HART has updated the RAMP to include this approach.
- Eminent Domain:
  - Five cases were forwarded by staff to the HART Board of Directors on May 21, 2015, to support the schedule for the Airport Guideway and Stations DB contract. The HART Board approved the resolutions, which allowed staff to forward the matter to the Honolulu City Council for consideration. HART anticipates bringing the matter back to the HART Board on July 30, 2015.
  - Another 20 cases were forwarded to the HART Board on June 25, 2015, primarily to support the schedule for the City Center Guideway and Stations DB contract. The HART Board approved the resolutions, which allowed staff to forward the matter to the Honolulu City Council for consideration. HART anticipates bringing these cases back to the HART Board for their August 2015 meeting.
  - Four more cases will be presented to the HART Board on July 30, 2015, primarily to support the City Center Guideway and Stations DB contract. HART anticipates bringing these cases back to the HART Board for their September 2015 meeting.
  - HART continues to negotiate with each property owner in an attempt to reach mutual agreement. However, several more parcels may be proposed to the HART Board of Directors for eminent domain to support east DB contracts.

5.1 Permits

- **Permits Submitted and In-Progress**
  - HART submitted additional information to HDOH regarding ongoing community noise issues in WOFH and KHG.
  - In order to address Hawai'i State Department of Transportation Highways (HDOT) staff comments, HART submitted a revised application to discharge hydrotesting water.
  - HART submitted a Construction Water Quality Monitoring Report to HDOH Clean Water Branch in relation to our Section 401 Water Quality Certification for Waiawa Stream.

- **Permits and Approvals Granted**
  - No activity in July.

- **Look Ahead**
  - Upcoming significant permit activity:
    - HART will submit the Clean Water Act Section 404 permit application for Kapalama and Kalihi Streams to the United States Army Corps of Engineers (USACE).
    - HART will submit the Clean Water Act Section 401 permit application for Kapalama and Kalihi Streams to HDOH.
    - HART will submit a letter requesting determination of permit required to the USACE for Nuuanu Stream.

5.2 Hawai'i Department of Transportation (HDOT) Agreements

- **Activities this month**
  - Alignment-wide, the HDOT Traffic Management Consultant (contract MM-915) continues to review traffic signals, ITS and construction Maintenance of Traffic (MOT) for HDOT.
  - Kiewit is responsible for maintenance of Farrington Highway and Kamehameha Highway as part of the Master Agreement.
  - The HDOT Design Coordination Consultant for the WOFH section (contract MM-920), AECOM Technical Services, Inc. (AECOM), continues to review design submittals for HDOT.
  - AECOM, the HDOT Design Consultant for the KHG section (contract MM-921), continues to review design submittals for HDOT.
  - SSFM, the HDOT Design Coordination Consultant for the Airport and City Center Guideway sections (contract MM-922), is reviewing guideway design submittals for HDOT.

- **Look Ahead**
  - City Center Joint Use and Occupancy expected to be executed late-2015.

5.3 Utility Agreements

Figure 13. Utility Agreements Status

Utility Agreements Status Matrix

Utility Owner	Status	WOFH		KHG		Airport			City Center
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA		UCA
AT&T	*Executed*	5/11/11	12/20/11	5/18/12		Draft sent back to AT&T for review (will include KHG & City Center)	Agreement Executed		
	NTP	5/12/11	12/21/11						
Chevron	*Executed*	12/4/09		11/4/11					
	NTP	12/22/09		11/15/11					
Hawaiian Telcom	*Executed*	5/20/10	11/17/14	5/10/12	Executed 12/31/14	5/28/15	HTI agreement executed 9/27/13		Draft sent to HTI
	NTP	6/14/10							
HECO	*Executed*	By Agreement with PB	4/20/12 (to be vacated once Design and Construction Services Agreements Executed)	7/12/12 (Agreement to be vacated once Design and Construction Services Agreements are Executed)			Airport Bridging Agreement (superseded by Design Services Agreement) City Center Bridging Agreement (superseded by Design Services Agreement)		
	NTP								
		Pre-Construction		Pre-Construction		Pre-Construction			
	Executed	10/30/13		10/4/13		n/a			
	Expired	11/29/13		11/29/13		n/a			
		Design Services	Construction Services	Design Services	Construction Services	Design Services	Construction Services	Design Services	Construction Services
	Executed	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13	
	NTP	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13	
Oceanic Time Warner Cable	*Executed*	12/8/09	12/21/11	1/9/12	6/2/14	Executed 12/19/14	4/4/2013		Draft sent to Oceanic
	NTP	12/22/09							
Pacific Lightnet/ Wavecom	*Executed*	4/28/10	3/12/12	2/15/12					
	NTP	4/29/10	3/13/12	2/16/12					
Sandwich Isle Communications	*Executed*	5/20/10		4/20/12			Submitted draft to SIC		
	NTP	6/8/10							
Hawai'iGAS	*Executed*	12/18/09	6/30/11	6/1/12	4/14/14	8/20/14	9/27/13		5/8/15
	NTP	12/22/09	7/12/11						
tw telecom	*Executed*	12/2/09		2/14/12	No Scope – Oceanic to relocate for tw telecom for KHG		10/11/12		Draft sent to tw telecom
	NTP	12/22/09		2/16/12					
Tesoro	*Executed*			2/15/12	Agreement executed 9/12/13		Agreement executed 9/3/13		
	NTP			2/16/12					

Legend: = Action this month; = Not applicable

COR = Corporation Counsel
ESA = Engineering Services Agreement
UCA = Utility Construction Agreement
UFRCRA = Combined Engineering and Construction Utility Agreement

WOFH

- All WOFH agreements have been executed.

KHG

- All KHG agreements have been executed.

AIRPORT

- All engineering utility agreements for the Airport section have been executed.
- HART is reviewing AT&T comments to the draft Construction Agreement. It is not necessary for this agreement to be in place for the Airport Segment utility construction.

CITY CENTER

- All engineering utility agreements for the City Center section have been executed.
- HART reviewed AT&T comments and the revised draft Construction Agreement was sent back to AT&T for review.
- HART has submitted the Utility Construction Agreement for City Center to OTWC for review/comments.
- HART has submitted a draft of the Utility Construction Agreement to tw telecom for review/comments.
- Looking Ahead:
  - Execute Oceanic City Center UCA.
  - Execute Hawaiian Telcom City Center UCA.

HECO

- **Davis-Bacon requirements –** HECO has established a collective bargaining agreement – which does not align with Davis-Bacon requirements – for which HART on behalf of HECO has requested a waiver from the Department of Labor. HART is coordinating to resolve this with HECO.
- **HECO 46kV Substation near Rail Operations Center (ROC) area –** HECO indicates a need in the 2018-2019 timeframe for a new 46kV substation to feed the ROC area due to requirements in HECO Rule 13. Initial planning indicates that a currently un-used location on the ROC property may be suitable for this facility. HECO is investigating a 'system' substation, which would also feed the area surrounding the ROC.
- **Additional Clearances –** HECO indicates the need for additional horizontal working clearances from overhead pole alignments and additional buffer radial clearances from the actual overhead high-voltage lines.
  - ***Horizontal Working Clearances Analysis* –** HECO is reviewing the current overhead pole and line locations to identify areas where accessibility for HECO maintenance is a concern. HART is currently reviewing the results of HECO's analysis. Additional HECO re-evaluation is ongoing for pole locations with sub-optimal clearance. HART will also be setting up meetings to further discuss and resolve this with HECO.
  - ***Bronto Bucket Truck Rental/Testing* –** To allow for increased accessibility for HECO maintenance personnel when considering horizontal working clearances, HECO identified a bucket truck with a telescoping boom (versus a knuckle) and with extendable outrigger supports (versus swinging outrigger supports). The truck allows for greater accessibility and less required setup space than the current larger HECO bucket trucks. HART has agreed to reimburse HECO for 3 months of rental for an un-insulated model of the proposed Bronto Bucket Truck. HART is currently reviewing the HECO Horizontal Working Clearance study. HART will also be setting up meetings to further discuss and resolve this with HECO.
- **New Service Connections –** HECO service requests are required for new electrical services for the MSF, Passenger Stations and Systems Sites (traction power facilities). The Passenger Station designers are providing the service request for the stations and the Core Systems Contractor is providing the service request for the systems sites.
  - ***MSF* –** Service request approved via receipt of HECO Final Cost Letter and HECO design drawings. Coordination with HECO for installation is progressing.
  - ***Passenger Stations and Systems Sites* –** HECO service request reviews are in progress and approvals are anticipated shortly for the west side stations. HECO is working to finalize its designs and cost estimates.

5.4 Right-of-Way (data as of July 24, 2015)

BUDGET

A Total of 38 properties have been acquired.

	Baseline Budget ($M)	Expended ($M)	Budget Balance ($M)	Estimate to Completion ($M)	Forecast Variance ($M)
Acquisition	$ 201.70	$ 74.90	$ 126.80	$ 112.50	$ 14.30
Relocation	$ 20.50	$ 7.80	$ 12.70	$ 17.20	$ (4.50)
Total (Million)	$ 222.20	$ 82.70	$ 139.50	$ 129.70	$ 9.80

Note:

- Administrative overhead costs aggregated with the Acquisition and Relocation numbers
- Estimate to complete based on offers, appraisals, or assessed values
- Figures do not reflect internal budget transfers

ACQUISITIONS

Figure 14. Right-of-Way Status for the Parcels [data provided by Real Estate Acquisition database (READ)]

	Current No. of Parcels Needed	Appraisals In Process	Appraisals Completed or N/A	Letters of Offer Sent or N/A	Offers Accepted or N/A	Possession Granted For Condemnation	Agreements Completed	Site Control Obtained	Relocations Completed	Properties Available for Contractor	Acquisitions Completed
Full Acquisition											
W.Oahu\Farrington	16		16	14	13	1	2	16	10	16	15
Kamehameha	3		3	3	3			3	1	3	3
Airport	5	1	4	5	5			4	3	4	4
City Center	20		20	18	16			16	14	13	16
TOTAL	*44*	*1*	*43*	*40*	*37*	*1*	*2*	*39*	*28*	*36*	*38*
Partial Acquisition											
W.Oahu\Farrington	3		3	2	2			3		2	1
Kamehameha	4		3	3	2	1	1	3		3	1
Airport	10		10	4			1	5		4	1
City Center	79	9	69	47	11			6		2	1
TOTAL	*96*	*9*	*85*	*56*	*15*	*1*	*2*	*17*		*11*	*4*
Easement											
W.Oahu\Farrington	17		17	1	1		6	11		10	6
Kamehameha	6		6				1	6		6	1
Airport	28		28	8	1		2	21		20	2
City Center	33	2	29	3			1	1		1	1
TOTAL	*84*	*2*	*80*	*12*	*2*		*10*	*39*		*37*	*10*
GRAND TOTAL	*224*	*12*	*208*	*108*	*54*	*2*	*14*	*95*	*28*	*84*	*52*

During design development, the real estate requirements have been adjusted to accommodate the design refinements. Parcel requirements are adjusted as design is finalized.

WEST O'AHU/FARRINGTON

- Issues:
  - Site control has been obtained for nearly all needed property for the WOFH section, for both the guideway and the stations.
  - Negotiations are advancing with Leeward Community College to secure construction right of entry for the WOFH guideway, and negotiations are continuing with the UH West O'ahu campus.

KAMEHAMEHA

- Issue:
  - All private property site access for the guideway is complete for Kamehameha. Right of entries for the relocated utility easements are being expedited.
  - HART is working with Aloha Stadium Authority to obtain right of entry for the construction of the station. HART currently has right of entry to construct the guideway.

AIRPORT

- Issues:
  - Right-of-way needs from the U.S. Navy have been a significant issue for the HART ROW team for many months, and HART and the Navy have worked in collaboration to achieve a construction right of entry. This is a significant milestone that allows HART's contractors to commence work. HART will continue to work closely with the Navy regarding the full execution of all applicable easement or deed documents.
  - Post Office negotiations are continuing.
  - Mapping process for the Airport Station must be finalized.
  - In order to support the upcoming procurement for the Airport Guideway and Station Design Build contract, eminent domain proceedings have been initiated. Negotiations are continuing with all private property owners in the Airport Section in an attempt to reach mutual agreement.
    - The HART Board approved five cases in May and the resolutions, which allow staff to forward the matter to the Honolulu City Council for consideration, were forwarded to the City Council. HART anticipates bringing the matter on the five cases back to the HART Board on July 30.
    - The HART Board approved one case in June and the resolution, which allows staff to forward the matter to the Honolulu City Council for consideration, was forwarded to the City Council. HART anticipates bringing the matter back to the HART Board on August 27.
    - One case will be forwarded to the HART Board of Directors on July 30, 2015, for eminent domain. HART anticipates bringing the matter back to the HART Board in September.
- Look Ahead:
  - Complete Post Office acquisition and Airport agreements.

CITY CENTER

- Issues:
  - Priority is being given to acquiring parcels in the Dillingham section and resolving remaining full acquisitions.
  - In order to support the upcoming procurement for the City Center Guideway and Station Design Build contract, eminent domain proceedings have been initiated. Negotiations are continuing with all private property owners in the City Center Section in an attempt to reach mutual agreement.
    - The HART Board approved eighteen cases in June and the resolutions, which allow staff to forward the matter to the Honolulu City Council for consideration, were forwarded to the City Council. HART anticipates bringing the matter on the eighteen cases back to the HART Board on August 27.
    - Three cases will be forwarded to the HART Board of Directors on July 30, 2015, for eminent domain. HART anticipates bringing the matter back to the HART Board in September.
    - Other parcels may be presented to the HART Board for eminent domain in the coming months, to ensure that the construction schedule is maintained. HART continues to negotiate with each property owner in an attempt to reach mutual agreement.
- Look Ahead:
  - Track the acquisitions in relation to construction schedules for City Center.
  - Evaluate the necessity for advancing additional recommendations for eminent domain in order to achieve the Project's schedule.

RELOCATIONS

Figure 15. Relocation Status for the Occupants (data provided by READ)

Section	Residential Relocations (a)	Business Relocations (b)	Not-For-Profit Relocations (c)	Total Relocations (a+b+c)	Relocation Assessment Completed	90-Day Notice Sent	30-Day Notice Sent	Relocations Completed for Occupants
W.Oahu\Farrington	18	6	1	25	12	12	8	25
Kamehameha		4		4	4	3	3	4
Airport		13		13	5	9		7
City Center	16	66		82	31	46	23	49
Grand Total:	***34***	***89***	***1***	***124***	***52***	***70***	***34***	***85***

WEST O'AHU/FARRINGTON

- Look Ahead:
  - Preliminary information on the remediation process for TMK 9-6-004-006 is anticipated in late July. HART continues to oversee the process.

AIRPORT

- Look Ahead:
  - Anticipate relocation of several TMKs by October.

CITY CENTER

- Look Ahead:
  - Monitor and complete relocations for remaining TMKs.

THIRD-PARTY AGREEMENTS

Figure 16. Third-Party Agreement Status

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
University of Hawai'i (UH) Master Agreement	Pending	August 2015	WOFH, KHG, City Center	Final negotiations are ongoing. Will secure Right of Construction as not to delay the project.
UH -West O'ahu (UHWO) Pre-Construction Right of Entry	Executed		WOFH	
UH - West O'ahu (UHWO) Construction Right of Entry for Station	Pending	August 2015	WOFH	In negotiations. Concerted effort is being made to finalize.
Leeward Community College (LCC) Pre-Construction Right of Entry	Executed		WOFH	
Leeward Community College (LCC) Construction Right of Entry for Guideway	Pending	August 2015	WOFH	In negotiations. Concerted effort is being made to finalize.
Leeward Community College (LCC) Construction Right of Entry for Station	Pending	August 2015	WOFH	In negotiations. Concerted effort is being made to finalize.
UH Urban Garden Pre-Construction Right of Entry	Executed		KHG	
UH Urban Garden Construction Right of Entry	Executed		KHG	Consent to construct in place.
UH Urban Garden Kiewit Construction Right of Entry	Executed		KHG	
D.R. Horton Agreement for Construction	Executed		WOFH	Allows for construction to proceed.
D.R. Horton Final Easement Agreement	Pending	December 2015	WOFH	Document in process.
Honolulu Community College (HCC) Pre-Construction Right of Entry	Executed		City Center	
Honolulu Community College (HCC) Construction Right of Entry for Station	Pending	September 2015	City Center	In negotiations. Concerted effort is being made to finalize.
Department of Land and Natural Resources (DLNR) Right of Entry (Kapolei)	Executed		WOFH	Consent to construct in place.
Department of Land and Natural Resources (DLNR) Easement (Kapolei)	Pending	August 2015	WOFH	Easement documents in process.
City Dept. of Parks & Recreation (DPP) (MSF drainage)	Executed		WOFH	Consent to construct in place.
Department of Land and Natural Resources (DLNR) Keehi Lagoon Right of Entry	Executed		Airport	Consent to construct in place.
Department of Land and Natural Resources (DLNR) Keehi Lagoon Easement	Pending	August 2015	Airport	Process Easement Agreement.
Department of Education Master Agreement and Consent to Construct (Waipahu H.S.)	Executed		WOFH	Consent to construct in place. Jurisdictional Transfer in process.
Aloha Stadium / Department of Accounting & General Services (DAGS) MOU for guideway & station	Executed		KHG	
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for guideway	Executed		KHG	Limited ROE granted for staging for Kiewit for KHG Contract.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for guideway	Executed		KHG	Construction ROE in place.

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for guideway	Pending	August 2015	KHG	Easement in process.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry for station	Pending	September 2015	KHG	In negotiations.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement for guideway	Pending	September 2015	KHG	Process Easement Agreement.
DHHL Master Agreement	Executed		WOFH, MSF	
DHHL License	Executed		WOFH, MSF	Consent to construct in place.
HDOT Master Agreement	Executed		WOFH	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		WOFH	Consent to construct in place.
HDOT Master Agreement for KHG, Airport and City Center	Executed		KHG, Airport, City Center	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		KHG	Consent to construct in place.
HDOT Joint Use & Occupancy (JU&O) Sub-agreement for Airport Division parcels	Executed		Airport	Consent to construct in place.
HDOT Easement Agreement for Airport Division parcels	Pending	August 2015	Airport	Process Easement Agreement.
HDOT Joint Use & Occupancy (JU&O) Sub-agreement for Airport leased/revenue parcels	Pending	October 2015	Airport	Sub-agreement in process.
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Pending	October 2015	City Center	Sub-agreement in process.
HDOT SOA MOU	Executed		Program	
OCCC/Hawai'i Department of Public Safety Agreement Dillingham Blvd.	Pending	August 2015	City Center	Finalizing requirements.
HI Community Development Agreement (HCDA)	Pending	August 2015	City Center	Coordination is on-going.
Department of Accounting & General Services (DAGS)/HHFDC Right of Entry	Pending	August 2015	City Center	Processing.
Department of Accounting & General Services (DAGS)/HHFDC Easement	Pending	August 2015	City Center	Process Easement Agreement.
City Dept. of Transportation Services (DTS) (Middle St.)	Pending	August 2015	Airport	Joint Use MOU in process. Pending design.
U.S. Navy Licenses (17 Easements)	Executed		WOFH, KHG, Airport	Consent to construct received. Formal notification is expected in weeks, however, immediate access is granted.
U.S. Navy (17 easements)	Pending	September 2015	WOFH, KHG, Airport	Land court documents processed and awaiting recordation and filing.
U.S. Navy Pearl Harbor Station	Adopted		Airport	Congressional approval received and immediate access is granted.
U.S. Post Office Honolulu Processing Center acquisition	Pending	August 2015	Airport	In negotiations.
City Dept. of Transportation Services (DTS) (Middle St./Kamehameha Hwy)	Pending	August 2015	Airport	Joint Use MOU in process.
City Dept. of Facility Maintenance (DFM) (Kamehameha Hwy/Makalapa Manor)	Executed		Airport	
City Dept. of Facility Maintenance (DFM) (N. Nimitz & Awa St.)	Pending	August 2015	City Center	Joint Use MOU in process.
City Dept. of Facility Maintenance (DFM) (Kohou St.)	Pending	August 2015	City Center	Joint Use MOU in process.
Federal Court House/GSA	Pending	August 2015	City Center	Draft agreement is under review and discussions are on-going.

6 MANAGEMENT AND ADMINISTRATIVE UPDATES

Safety and Security (Section 6.1)

OVERVIEW

- **S&S Certification Program**
  - **Certification documents: (See Status Chart)**
  - **Design Criteria Conformance Checklists (DCCC) development and verification: (See Status Chart)**
    - DBB-525, Airport 7-piers DCCC - Construction/testing verification is at 99%.
    - Vehicle DCCC design verification is underway.
  - **Civil - Construction Spec Conform Checklist (CSCC) development/verification: (See Status Chart)**
    - Draft FHSG base CSCC was approved at the July 22, 2015 SSRC meeting.
  - **Core Systems - Spec/Testing Conform Checklists (STCC) development/verification: (See Status Chart)**
    - Two (2) draft vehicle base STCCs and One (1) General Requirements – (Applies to all Vehicles) and Two (2) Interim Certification for Dynamic Testing checklists are scheduled for August SSRC approval.
    - The Train/Vehicle Certification STCC for Pre-revenue Service is still under development to reflect other integrated systems.
  - **Operational Certifiable Items List (CIL):** Draft operational CIL developed and under HART/CSC review.
  - **PHAs:** Project PHAs and CSC - PHAs, SSHA, and O&SHA status – (See Certification Document chart).
  - **TVA:** No changes – on hold.
  - **Open Items List (OIL):** July SSRC meeting approved OIL procedures and close-out form, close-out meetings scheduled.
  - **Hazard Tracking Log (HTL):** HTL revisions are complete and DRAFT Procedures was processed through the July SSCWG and scheduled for August SSRC approval.
  - **Interim Certification Requirements:** No changes.
  - **Certification Certificate**: DBB-525 Airport Section 7-Piers – scheduled for August SSRC approval.
  - **Key S&S Certification related meetings held in July 2015**:
    - Safety and Security Certification Working Group (SSCWG) meetings, July 1 and 28, 2015
    - Rail Activation Committee (RAC) meeting, July 6, 2015 (Will activate committee January 2016)
    - Operational Readiness Working Group meeting, July 10, 2015 (First official meeting)
    - Fire Life Safety Working Group (FLSWG) meeting, July 14, 2015
    - Safety and Security Review Committee (SSRC) meeting, July 22, 2015
    - CSC Vehicle/Car/Train Certification Sub-Committee meetings, July 9, 16, 23, and 30,2015
    - Bi-weekly and/or monthly project coordination meetings with Core Systems, MSF, WOFH and KHG
    - HART Safety and Security weekly meeting with HDOT
- **Construction Safety and Security:** Track Allocation plans and procedures are under development.

KEY ISSUES

- The CSC DCCC design verification efforts have slowed due to the additional review requirements between HART Safety and the CSCs and the formal CMS submittal process. Revisions are needed immediately to accommodate a more informal/flexible review process to accelerate the verification process.
- The Passenger Vehicle is under production without SSRC approved SSHA, O&SHA and FHA which are critical safety analyses.

Quality Management (Section 6.2)

OVERVIEW

- The HART QMP and HART-approved QAPs of contractors, consultants and suppliers have been assimilated by their respective employees and are being implemented as standard operating procedures. Therefore, less and less Nonconformance Reports (NCR) are reported or encountered.
- There are two (2) major NCRs left on the DB Guideway Contracts (WOFH and KHG) that need to be addressed and corrected to prevent recurrence and mitigate impact on the overall progress of the project. These NCRs are discussed in more detail on the Key Issues of Section 6.2.

- Major improvements occurred on the manufacturing and closing of NCRs for Pre-Cast Segments during this reporting period. To date, there are only 13 open NCRs left to close out of about 3,000 cast.
- Performed a Combined QA and Buy America (BA) audit of KIWC Casting Facility for WOFH and KHG on July 15-16, 2015.
- Performed QA audit of AHJV for Core Systems DBOM contract on July 6, 2015.

KEY ISSUES

- Combined QA and BA audit of Nan Inc. for the Airport Section Utility (ASU) Relocation contract on August 13-14, 2015.
- QA audit of KIWC Survey Work for WOFH, KHG and MSF on August 19-20, 2015.
- Closeout of Buy America Audit of MSF. One of seven items left to resolve.
- Pre-shipment and Inspection & Testing (I&T) of building materials and equipment for the MSF and Owner's (HART) Supplied Materials.
- QA review of procurement document package for the Airport Guideway and Stations DB RFP.
- Resolution of two (2) major NCRs: cracked segments 1, 2, 11 and 12 of Span 17 remediation, and Drilled Shafts [Crosshole Sonic Logging Reports] quality and repairs.
- Construction of MSF Yard Ballasted Track: Alignment, Profile, Geometry, Sub-ballast, Drainage, Ballast, Grade Crossings, Welding, Stress Relieving, Concrete Ties, etc.
- Installation and welding of rails and turnouts on top of the WOFH Guideway.
- Construction of WOFH Balanced Cantilever Segmental Span.
- Manufacturing of Carbody(s) at AnsaldoBreda and its subcontractor manufacturing facilities in Italy.
- Pre-shipment, I&T and First Article Inspections (FAI) of wayside core system and passenger vehicles materials, parts and components.
- Close-out of A-7 contract to include review of "Lifetime" Quality Records including NCRs, if any, and As-built Drawings.

Buy America Compliance (Section 6.3)

OVERVIEW and KEY ISSUES

- On June 19, 2015, Kathleen DiPetropolo of USDOT Maritime Administration provided Ansaldo Breda written approval to proceed with moving the first 4 car shells (on a non-U.S. flag vessel).

Disadvantaged Business Enterprise (Section 6.4)

OVERVIEW

- $25,325,983 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 7/31/15.

Planning and Environment (Section 6.5)

OVERVIEW

- HART's Planning and Environmental team has coordinated extensively in June with the FTA and Programmatic Agreement (PA) Signatory and Consulting Parties to anticipate and resolve issues with the near-term and future implementation of PA stipulations.

KEY ISSUES

- HART is completing final review of environmental documentation and requirements for the upcoming Airport Stations and Guideway bid package.

Risk Management (Section 6.6)

OVERVIEW

- There are a total of 154 risks in the July 2015 risk register. There were 6 risks deleted and no new risks added for the month. Reviews were conducted for Airport Guideway, Airport Utilities, City Center Guideway, Dillingham Kaka'ako Station Group, Farrington Highway Station Group and West O'ahu Station Group.
    - Utility Service Hook Up requests have been filed with an agreement for design or relocations by the utility companies.
    - Two of the three West Side Station Groups have been successfully bid and awarded at or below HART's predicted estimates thereby eliminating market risk as well as closing the window for procurement protest.

KEY ISSUES

- Risks associated with the market, right-of-way, utilities and third parties remain at the top of the list of concerns.
- The construction market represents a particularly challenging situation for HART. The GET extension to cover capital cost overruns due to court and procurement protest delays has made it through the Legislature and Governor's approvals. All that remains is City Council approval.
    - Construction escalation is expected to continue to be high for 2015 and 2016, as growth in island permitted work continues at a faster rate than completion of construction work.
    - HART construction contracts are a major contributor of the construction market and may contribute as much as 25% of the total construction volume (private and public) in 2015 and 2016.
- Third party actions are taking longer than expected to resolve, exposing HART's contractors to potential delay in the performance of their work unless there are work around alternatives available to minimize risk impacts to cost or schedule.
    - HECO and University of Hawai'i issues remain critical as well as various required permits.

Community Outreach (Section 6.7)

OVERVIEW

- Working with businesses along the alignment to mitigate the disruption of construction continues to be a top priority for HART's public outreach team. As part of the agency's Business Outreach Program, HART sponsored two free social media marketing workshops for small businesses along the alignment. Two Saturday workshops were held, one in Waipahu and a second in Aiea, to provide businesses with information on using social media to better market their businesses.
- HART Executive Director and CEO Dan Grabauskas, Honolulu Mayor Kirk Caldwell and City Councilman Brandon Elefante held a joint news conference this month to announce the completion of the work above the H-1 westbound portion of the balanced cantilever. HART also used this opportunity to provide an update on the project's construction work and answer questions from the media about a variety of issues regarding the project's progress and its finances.

KEY ISSUES

- Traffic and traffic management continues to be the key issue surrounding construction work in the project's corridor. HART's public outreach team responded to more than 125 public inquiries, the majority of those inquiries were related to traffic, general project information and some complaints regarding noise from Kiewit's construction work during evening hours.
- With school expected to resume shortly, extra efforts are underway this month and through August to ensure parents and school officials are aware of any traffic changes near schools. Safety is the top priority, particularly around school zones.

Staffing (Section 6.8)

OVERVIEW

- The Director of Design and Construction position, formerly filled by HDR, has been replaced with a City employee. Start date was July 7, 2015.
- The Planner V (Land Use) position in the Planning Division has been filled with a City (Civil Service) employee who started on July 1, 2015.
- The Planner VI (Permits/Hazmat) position has been filled with a City employee. Start date is Aug. 3, 2015.
- The Secretary III position in Budget & Finance has been filled with a City employee. Start date is Aug. 3, 2015.
- The Senior Clerk position in Document Controls has been filled with a City employee. Start date is Aug. 10, 2015.
- The Director of Operations and Maintenance will be leaving the program in August. Recruitment for this position will begin shortly.
- HART prioritizes filling all vacancies with City employees and supplements the City staff with consultants when required and appropriate.

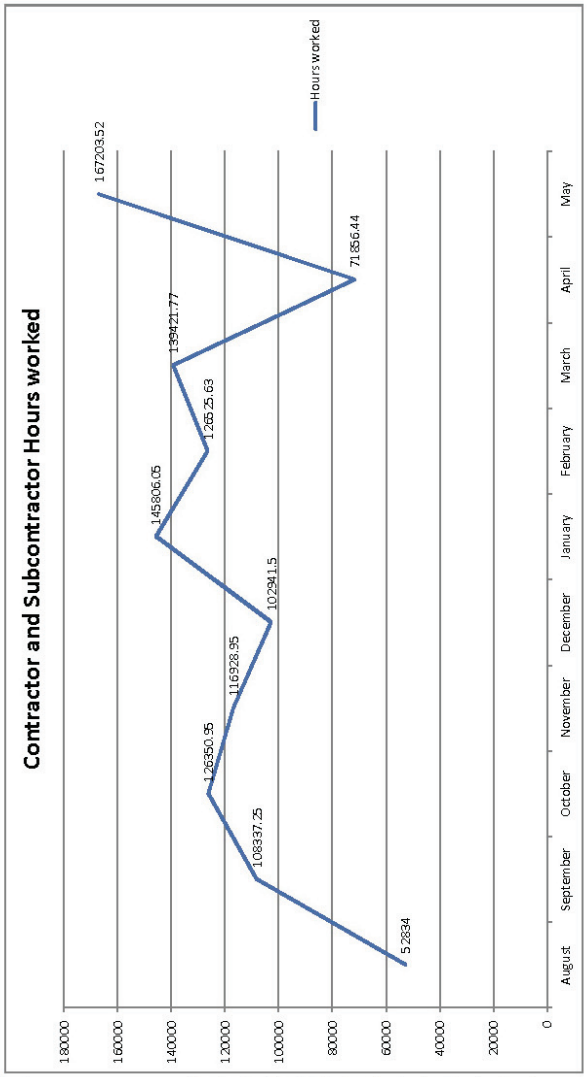
KEY ISSUES

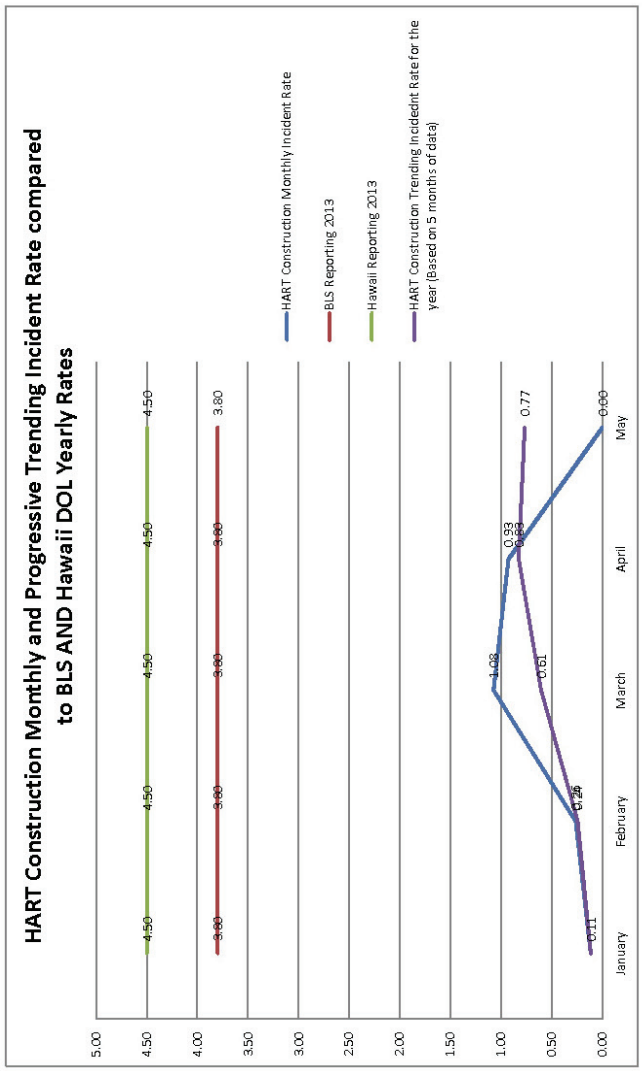
- The latest organization chart is dated Jan. 14, 2015. An updated version is under development.

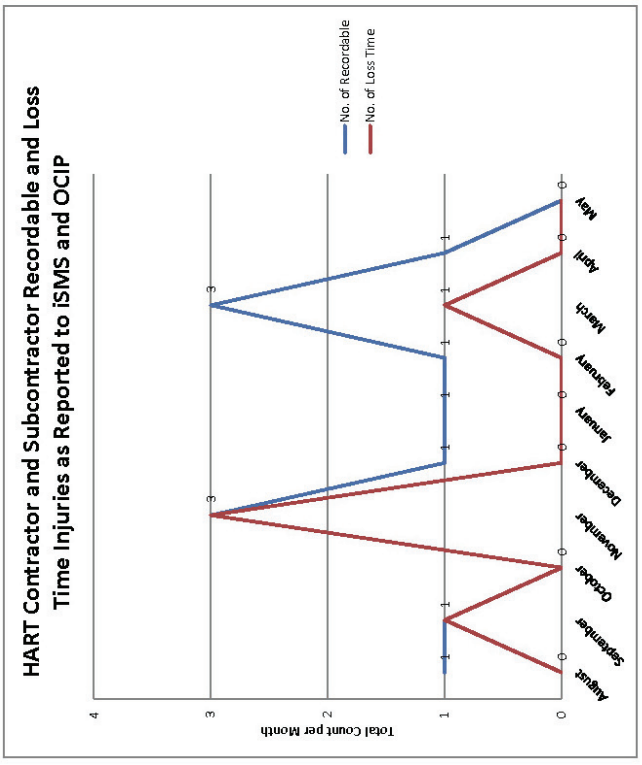
6.1 Safety and Security

	2014			2015		
	Hours worked	No. of Recordable	No. of Loss Time	Hours worked	No. of Recordable	No. of Loss Time
January				145806.05	1	0
February				126525.63	1	0
March				139421.77	3	1
April				71856.44	1	0
May				167203.52	0	0
June						
July						
August	52834	1	0			
September	108337.25	1	1			
October	126350.95	0	0			
November	116928.95	3	3			
December	102941.5	1	0			
Total	507392.65	6	4	650813.41	6	1

Work Hours for WOFH, KHG, MSF, Air Port. CORE System as reported to OCIP and certified.







Project-Wide Incident Activity					
Event Type	**Total Number of Events since 1/1/2007**	**Total Number of Events for July 2015**	**Loss Type**	**Date**	**Event Description**
Environment	13	1	No Loss	7/16/2015	Airport - Trenching for new gas line along Kam Hwy West approximately 200' from Center Drive intersection. Spotter noticed discolored soil and unusual odor. Operator felt change in soil type.
Loss or Damage	20	1	Minor Damage	7/2/2015	KHG- Porta potty slid off pallet and was damaged, while being moved by forklift.
*Reportable Occupational Injury/Illness	0	0			
Security	51	1	Assault	7/18/2015	KHG - Employee assaulted by citizen.
**Loss Time Occupational Injury/Illness	6	0			
Road/Vehicle - Driving	74	5	Minor Damage Minor Damage Minor Damage Major Damage Minor Damage	a) 7/3/2015 b) 7/18/2015 c) 7/2/2015 d) 7/7/2015 e) 7/30/2015	a) WOFH - 3rd party vehicle pulled out from street parking and side swiped the front passenger side of a Kiewit truck. b) WOFH - Employee driving a forklift damaged the tire by hitting a piece of H iron. c) KHG - Citizen drove into trench, there were no workers in the trench at the time of the incident. d) WOFH - 3rd party driver struck a GP Roadways Arrow Board damaging the front right leg. Damage to 3rd party car included a front right flat tire, ripped off the door of the passenger side and a broken window; citizen stated he fell asleep. e) MSF - Employee backed a forklift into a subcontractor's pickup tailgate.
Service Strike	55	7	Minor Damage Minor Damage Minor Damage Minor Damage Minor Damage Minor Damage	a) 7/1/2015 b) 7/3/2015 c) 7/7/2015 d) 7/15/2015 e) 7/17/2015 f) 7/22/2015 g) 7/16/2015	a) Airport - While trenching for new 30" water line, an unmarked/unidentified 8" steel pipe was struck by the excavator bucket. b) KHG - SR-90 drilled into a 1" irrigation line. c) KHG - Excavating crew struck an abandoned, unmarked, utility line. d) Airport - While excavating for new gas line, excavator bucket struck top of unidentified drain line. e) Airport - While excavating for the new gas line, an unidentified drain line was struck by the excavator. f) Airport - While excavating for new 30" waterline, existing concrete asbestos jackets for telcom conduits was exposed. g) Airport - 6" PVC irrigation line struck while pot holing.

*Reportable incidents: Requires OSHA to be notified within 8 hours, and includes the death of an employee or hospitalization of three or more employees.
**Loss Time Injury: Time away from work due to injury.

Key HART S&S Certification Documents Status			
Documents	Revision #	Date Approved	Comments
Safety and Security Management Plan (SSMP)	Rev 5	02/25/2015	Pending PMP update/approval
Safety and Security Certification Plan (SSCP)	Rev 4	02/25/2015	Pending PMP update/approval
WOFH SSCP	Rev 0	10/22/2014	No future updates: HART SSCP in affect
Construction Safety & Security Plan (CSSP)	Rev 2	10/22/2014	Pending signatures
Security Sensitive Information (SSI) Plan	Rev 0	7/22/2015	Pending signatures
Project Preliminary Hazard Analysis (PHAs)	Rev 1	6/6/2014	Rev 2 - Finalizing PHAs is on-going
- MSF – Yard and Shop	Rev 2	-	3/30/2015 A – Update completed – under internal review
- Alignment	Rev 2	-	3/30/2015 A – Update completed – under internal review
- Tracks	Rev 2	-	3/30/2015 A – Update completed – under internal review
- Stations	Rev 2	-	6/22/2015 A – Update completed – under internal review
- Traction Power	On hold	-	Pending approval of TES SSHA and O&SHA
- Train Control	On hold	-	Pending approval of all ATC related SSHA and O&SHA
- Vehicles	On hold	-	Pending approval of all PV related SSHA and O&SHA
- Communications	On hold	-	Pending approval of Comm SSHA and O&SHA
Core Systems Contract (CSC) PHAs (DBOM)	Rev C	-	Received 12/15/14 – CSC R&R
- Central ATC O&SHA	Rev C	-	Accepted 4/22/2015 - HART Safety for final review
- Wayside ATC SSHA	Rev B	-	Received 11/14/2014 – CSC R&R
- Wayside ATC O&SHA	Rev D	-	Accepted 7/8/2015 - HART Safety for final review
- Wayside/ATC SHA	Rev C	-	Received 1/6/2015 – CSC R&R
- SCADA O&SHA	Rev D	-	Received 7/14/2015 – CSC R&R
- SCADA SSHA	Rev C	-	Received 3/10/2015 – CSC R&R
- Vehicle Fire Hazard Analysis (FHA)	Rev B	-	Received 5/1/2015 – CSC R&R
- Vehicle SSHA	Rev A	-	Under development – high priority - vehicle under production
- Vehicle O&SHA	Rev A	-	Under development – high priority - vehicle under production
- Vehicle/ATC SSHA	Rev D	-	Received 6/23/2015 – CSC R&R
- Vehicle/ATC O&SHA	Rev D	-	Received 6/9/2015 – CSC R&R
- TES SSHA	Rev A	-	Received 11/17/2014 – CSC R&R
- TES O&SHA	Rev A	-	Received 5/22/2015 – CSC R&R
- PSGS PHAs	Rev A		Under development
- PSGS O&SHA	Rev A	-	Received 12/8/2014 – CSC R&R
- PSGS SSHA	Rev A	-	Received 02/2/2015 – CSC R&R
- UPS O&SHA	Rev A	-	Received 5/12/2015 – CSC R&R
- Communications SSHA	Rev A	-	7/13/2015 – under review
- Communications O&SHA	Rev A	-	7/13/2015 – under review
- FDAS SSHA	Rev A	-	Under development
- FDAS O&SHA	Rev A	-	Under development
- MOW Support Vehicles O&SHA	Rev A	-	Under development
Threat & Vulnerability Assessments (TVAs)			
- Project TVA	Rev 1	1/16/2015	On hold pending contract restructure & re-design

S & S Design Criteria Conformance Checklist (DCCC) Verification Status						
Design Phase				**Construction / Installation /Testing**		
Contracts: FD, DB, DBOM	% Verified	+ / - % Change	Comments: Design SSRC Approval Date	% Verified	+ / - % Change	Comments: SSRC Approval Date
Contracts Under Construction/Procurement/Production						
FD-430, 7 – Shafts	100%	N/A	6/17/2015	99%	+ 99%	August approval - TBD
FD-430, Airport Utilities	100%	N/A	6/25/2014			
DB-200, MSF	99%	-	1/28/2015			
DB-120, WOFH Guideway 38 total – Sub CEL/CIL Packages	99%	-	32 Sub - CELs/CILs SSRC approved			
DB-320, KHG Guideway 39 total – Sub CEL/CIL Packages	97%	-	32 - Sub CELs/CILs, SSRC approved			
FD H2R2 Ramps	96%	-	5/27/2015			
FD-240, Farrington Hwy Station Group	94%	-	1- station- 6/17/2015			
DBOM-920, Core Systems						
- Passenger Vehicles	-	-	Verification underway			
- Traction Electrification System	-	-	Designer input underway			
Under Design or in Pre-bidding Status						
FD-140, West Oahu Station Group	46%	-	Waiting for updated			
FD-340, Kamehameha Highway Station Grp	99%	+1%	4/29/2015, 5/27/2015			
- Traction Power Generator Back-up System			Base DCCC under review			
- Communication System	-	-	Designer input underway			
- Fire Detection Alarm System	-	-	Designer input underway			
- Train Control	-	-	Designer input underway			
- SCADA	-	-	Designer input underway			
- Platform Screen Gate System	-	-	Designer input underway			
- MOW Vehicles	-	-	Base DCCC under review			
- Yard Systems Bungalows	64%	-	Base DCCC – 5/27/2015			
DB-xxx, Airport Guideway & Stations Grp	38%	-	On hold – re-designing			
DB-xxx, City Center Guideway & Stations Grp	-	-	On hold – re-designing			
FD-530, City Center Utilities	-	-	On hold – re-designing			
MI-930, Elevators & Escalators	-	-	Base DCCC under review			
Transit ART Program	-	-	Base DCCC under review			
DB-275, Pearl Highlands PS/BTC	-	-	Base DCCC under review			
FD-600, West O'ahu Park & Ride	-	-	Base DCCC under review			

Civil Contracts S & S Construction Specification Conformance Checklists (CSCC) Construction - Installation - Testing Verification Status			
Contracts	% Verified	+ / - % Change	Comments
Civil Contracts Under Construction			
DBB-525, Airport Section, 7 - Drilled Shafts	98%	-	1-remaining open item – As-Built Drawings
DB-200, MSF	27%	-	Verification underway
DB-120, WOFH Guideway	35%	+3%	Verification underway
DB-320, KHG Guideway	4%	-	Verification underway
DBB-505, Airport Utilities	7%	-	Base CSCC approval ready for August SSRC
DBB-385, H2R2 Ramps	-	-	Base CSCC approved, 5-27-2015
DBB-271, Farrington Hwy Station Group	-	-	Base CSCC Approved 7/22/2015
Civil Contracts Still under Design or in Bidding - Pre-bidding Phases			
DBB-171, West O'ahu Station Group	-	-	Draft Base CSCC under PM/CM review – Update needed
DBB-371, Kamehameha Hwy Stations Grp	-	-	Draft Base CSCC under PM/CM review – Update needed
DB-xxx, Airport Guideway & Stations Grp	-	-	Draft Base CSCC in hand – on hold pending re-design
DBB-xxx, City Center Utilities	-	-	Draft Base CSCC in hand – on hold pending re-design
DB-xxx, City Center Guideway & D&K Stations Grp	-	-	Draft Base CSCC in hand – on hold pending re-design
MI-930, Elevators & Escalators	-	-	Draft Base CSCC under review
DB-275, Pearl Highlands PS/ Bus Transit Center	-	-	TBD
DBB-600, West O'ahu Park & Ride	-	-	TBD
Transit Art Program	-	-	Draft Base CSCC under review
Operational Requirements			
- Operational CEL/CILs	-	-	Draft Base Operational CIL under review

Core Systems - Contracts S & S Specification/Testing Conformance Checklists (STCC) Manufacture - Installation - Testing Verification Status			
Contracts	% Verified	+ / - % Change	Comments
DBOM-920 Core System Contracts under Production - Manufacture - Installation - STCC			
Passenger Vehicles/Cars (STCC)	-	-	3 – Draft Base STCCs under review with CSC
- General Requirements – Applies to all Vehicles	-	-	Base STCC under review with CSC
- Vehicle - Interim Cert – for Dynamic Testing	-	-	Base STCC under review with CSC – 80 checklists – 1 per car type
- Train/4-Vehicles Cert for Pre-revenue Service	-	-	Base STCC under development
Traction Electrification System (TES)	-	-	Draft Base STCC under review
DBOM-920 Core Systems Contracts still Under Design- STCC			
- System Integration Testing (SIT)	-	-	Draft Base STCC under review
- Traction Power Generators Back-up System	-	-	Draft Base STCC under review
- Communication Systems	-	-	TBD
- Fire Detection Alarm System (FDAS)	-	-	TBD
- Train Control System (TCS)	-	-	TBD
- Supervisory Control & Data Acquisition (SCADA)	-	-	TBD
- Platform Screen Gate System (PSGS)	-	-	TBD
- MOW Vehicles	-	-	Draft Base STCC under review
- Yard Systems Bungalows	-	-	TBD

6.2 Quality Management

- **Overview**
  - The HART QMP and HART-approved QAPs of contractors, consultants and suppliers have been assimilated by their respective employees and are being implemented as standard operating procedures. Therefore, less and less Nonconformance Reports (NCR) are reported or encountered.
  - Review and approve contractors, consultants and suppliers new and updated QAPs including Inspection and Test Plans (ITP).

- Conducted biweekly Quality Task Force (QTF) meetings with CE&I, contractors and consultants QA teams to discuss the status of: design and construction activities; procurement activities; inspection and testing; NCRs; Corrective Actions (CARs) and Preventative Actions (PARs); quality compliance; various process improvements; quality economics, and Buy America compliance.
- Participated in Pre-Activity Meeting for scheduled construction activities: MSF (Catch Basins Construction); KHG (Columns Construction); ASU (Drainage Structures); and CSC (Pre-Shipment and testing and FAI of Cab Rack and SCADA.
- Perform Management System Audits (QA, Environmental and Buy America); 2015 Combined Management System Audit Schedule as shown below:

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 8

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit

CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
CCH-100	Honolulu Authority for Rapid Transportation (HART)	HART	15-009 QA	8/24 - 9/04		
	Honolulu Authority for Rapid Transportation (HART) -Security & Safety Only		15-009 SS	8/24 - 9/04		
CT-HRT-10HO137	West O'ahu/Farrington Highway Guideway Design-Build (WOFH)	KIWC - HI	15-001 QA	2/17 - 2/19	2/17 - 2/18	4/17/15
CT-HRT-11HO195	Kamehameha Highway Guideway Design-Build (KHG)		15-001 BA	2/17 - 2/19	2/17 - 2/18	4/17/15
CH-HRT-10HO449	Maintenance and Storage Facility Design-Build (MSF)	KKJV - HI	15-003 QA	2/25 - 2/26	2/25 - 2/26	4/14/15
			15-003 BA	2/25 - 2/26	2/25 - 2/26	
CT-HRT-10HO137	WOFH-KHG Casting Facility	KIWC - HI	15-011	7/15 - 7/16	7/15 - 7/16	
CT-HRT-11HO195						
CH-HRT-10HO449	WOFH, KHG, MSF) Audit Surveying and Alignments	KIWC/KKJV - HI	15-013	8/19 - 8/20		
CT-HRT-11HO195						
CT-HRT-10HO137						
	Core Systems Contract (CSC) Design-Build-Operate-Maintain	ASTS Italy	TBD	TBD		
CT-HRT-1200106		AB Italy	TBD	TBD		
		AB USA	TBD	TBD		
CT-HRT-1200106	Core Systems Contract (CSC)	AHJV - HI	15-010	7/06 - 7/07	7/6	7/14/15
SC-HRT-1200116	West O'ahu Station Group Final Design (WOSG)	AECOM - HI	15-005	3/18 - 3/19	3/18 -3/19	5/18/15
FD-245	Pearl Highlands Parking Structure/Bus Transit Center Final Design	TBD	TBD	TBD		

HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 8

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit

CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
SC-HRT-1200111	Kamehameha Highway Station Group Final Design (KHSG) PH, PR, AS	AVA - HI	15-002	6/3 - 6/04	6/3	6/8/15
		AVA - CA				
SC-HRT-1200111	H2R2 Final Design	AVA - HI	15-004	1/28	1/28	2/3/15
		AVA - CA				
SC-HRT- 1200038	Airport Section Utilities and Guideway Final Design (AUG)	AECOM - HI	TBD	TBD		
SC-HRT- 1300022	Airport Station Group Final Design (ASG)	AECOM - HI				
SC-HRT-1200149	City Center Section Utilities and Guideway Final Design (CCUG)	AECOM - HI	TBD	TBD		
SC-HRT-1400003	Dillingham and Kaka'ako Station Groups "East Side Stations" Final Design (DKSG)	PERKINS+WILL - SEA	TBD	TBD		
SC-HRT-1400049	CSC Support Services	L + E	15-016	11/23 - 11/24		
FD-600	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes Final Design	TBD	TBD	TBD		
DBB-275	Pearl Highlands Parking Structure/Bus Transit Center Construction	TBD	TBD	TBD		
CR-HRT-1500309	H2R2 Ramp Construction	Royal Contracting	TBD	TBD		
CR-HRT-	West Oahu Station Group Construction	NAN, Inc	TBD	TBD		
CT-HRT-1500236	Farrington Hi-way Station Group Construction	Hawaiian Dredging	TBD	TBD		

HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 8

KEY	Local Audit	Remote Audit	Continental U.S. Audit	International Audit

CONTRACT PACKAGE NUMBER	DESCRIPTION	CONTRACTOR / CONSULTANT / SUPPLIER	AUDIT NUMBER	DATE SCHEDULED	DATE PERFORMED	DATE CLOSED
DBB-	Kamehameha Hi-way Station Group Construction	TBD	TBD	TBD		
SC-HRT-14000323	Airport Section Utilities Construction	NAN, Inc	15-012	8/13 - 8/14		
CT-HTR-1500080	Airport Section Guideway Seven Pier Construction	HDCC/CJA JV	15-006 QA	3/11	3/11 - 3/24	3/31/15
			15-006 BA	3/11	3/11 - 3/24	3/31/15
DB-	Airport Section Guideway and Stations	TBD	TBD	TBD		
DB-	City Center Section Guideway and Stations	TBD	TBD	TBD		
DBB-600	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes Construction	TBD	TBD	TBD		
CT-HRT-1300318	Elevator and Escalator - Manufacture, Install and Maintain	US Schindler - HI US Schindler - NJ	15-015	9/9 - 9/10		
	West O'ahu, Farrington Highway, and Kamehameha Highway Station Groups "West Side Stations" CE&I		15-014	9/16 - 9/17		
SC-HRT-1400050	Pearl Highlands Parking Structure/Bus Transit Center CE&I	PGH Wong - HI	TBD	TBD		
	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes CE&I		TBD	TBD		
TBD	CE&I East	TBD	TBD	TBD		
SC-HRT-1400027	General Engineering Consultant III for Final Design and Construction (GEC III)	CH2M Hill	15-007	5/20 - 5/21	5/20 -5/21	7/14/15

- **Key Issues**

HART NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
32 (Audits)	32	0
1 (Construction)	1	0

  - Updating, reviewing and approval of appropriate HART Project Baseline Plans and Procedures due to new policies, re-organization, process improvement and lessons learned from the internal audits. Upon approval of revised plans and procedures, training of HART employees must be performed in order to assure competency and proficiency.

- Resolution of two (2) major NCRs on the DB Contracts (WOFH and KHG) that need to be addressed and corrected to prevent recurrence and to mitigate impact on the overall progress of the project. The following are the major NCRs identified on the DB Contracts:
  - **Drilled Shafts:** To date, there are 18 Open NCRs (closed nine) on WOFH and 15 NCRs (closed two) on KHG which are related to CSL Reports. The contract requires that deep foundation elements (drilled shafts) integrity must be tested in accordance with ASTM D6760-14 Standard Test Method for Integrity Testing of Deep Foundations by Ultrasonic Crosshole Testing and HART will determine the final acceptance of each shaft based on the Crosshole Sonic Log (CSL) report, which includes: test result, drilled shaft installation information, and analysis for the tested shaft. The evaluation of testing results will be based on the percentage decrease in velocity as correlated to the Concrete Condition Rating Criteria detailed in specification Section 31 63 30 G. If the test results do not meet the allowable requirements, a minimum 2-3-inch diameter cores per shaft will be performed by KIWC to intercept the suspected or defective zones. The disposition and corrective actions will be agreed with KIWC EOR and HART. Closing of NCRs related to the drilled shafts is a prerequisite for the construction of transition zones and the columns. Therefore, it is a QA Hold Point. To date, there are 229 and 50 drilled shafts completed on WOFH and KHG, respectively.
  - **Span 17 – NCR 00314:** The procedure for lowering a heavier and wider span was not followed during the setting of the span to the columns. The result of the error was cracked segments 17-1, 17-2, 17-11 and 17-12. KIWC has evaluated the damages, disposition and the proposed corrective actions. KIWC has submitted a Remediation Plan to HART, which is currently being reviewed by the CE&I, Design and Construction Department and GEC-3.
- Timely closeout of contractors, consultants and suppliers open NCRs.
- Combined QA and BA Audit of Nan Inc. for the ASU contract.
- QA Audit of KIWC Survey Work on WOFH, KHG and MSF.
- Closeout of Buy America Audit of MSF.
- Pre-shipment and Inspection & Testing (I&T) of building materials and equipment for the MSF and Owner's (HART) Supplied Materials.
- QA review of procurement document package for the Airport Guideway and Stations DB RFP.
- Resolution of two (2) major NCRs: cracked segments 1, 2, 11 and 12 of Span 17 remediation, and Drilled Shafts [Crosshole Sonic Logging Reports] quality and repairs.
- Construction of MSF Yard Ballasted Track: Alignment, Profile, Geometry, Sub-ballast, Drainage, Ballast, Grade Crossings, Welding, Stress Relieving, Concrete Ties, etc.
- Installation and welding of rails and turnouts on top of the WOFH Guideway.
- Construction of WOFH Balanced Cantilever Segmental Spans.
- Manufacturing of Carbody(s) at AnsaldoBreda and its subcontractor manufacturing facilities in Italy.
- Pre-shipment, I&T and FAI of wayside core system and passenger vehicles materials, parts and components.
- Close-out of A-7 contract to include review of "Lifetime" Quality Records including NCRs, if any, and As-built Drawings.

6.3 Buy America Compliance (49 CFR 661 and 49 CFR 663)

- **Look Ahead**
  - Will provide updates on any new construction agreements HART enters into with a utility company.
  - Cargo Preference: Will provide updates and written assurances from AHJV that it will satisfy the Cargo Preference requirements set forth in the contract; AHJV will use privately-owned United States Flag commercial vessels to ship equipment, material or commodities for the Project.

6.4 Disadvantaged Business Enterprise (DBE)

Total DBE Participation = $25.3M
(previous report = $25.2M)

- **Activities this month**
  - $25,325,983 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 7/31/15
    - 6.10% = DBE utilization on total disbursed FTA funds received to date ($25,325,983 divided by $415,506,631)
    - 1.44% = DBE utilization to date on total Project FTA funds ($25,325,983 divided by $1,763,903,901)

Figure 17. DBE Participation this Month

DBE Participation in July		
DBE Firm	Contract Number	Participation
Lawson & Associates	SC-HRT-1400061 MM-964	$51,586
ADS System Safety Consulting	SC-HRT-1400061 MM-964	$88,599
LKG-CMC	SC-HRT-1400049 MM-962	$31,791
TOTAL FOR THE MONTH		**$171,976**

Note: For a full listing of DBE participation to date, please see Appendix F.

6.5 Planning and Environment

- **Activities this month**
  - Programmatic Agreement Activities:
    - HART participated in the Kākoʻo Meeting with Programmatic Agreement Signatory and Consulting Parties on July 23, 2015.
    - HART's Programmatic Agreement (PA) team met with SHPD on July 7, 2015, as part of ongoing consultation with the division.
    - HART is in process of preparing park improvement plans for Irwin Park, Walker Palk, and Mother Waldron Playground. Each site was visited to examine the current conditions. Background information and existing documents related to those parks have been researched in order to develop the appropriate goals and objectives which will be presented to stakeholders.
    - HART has consulted with an early education specialist to develop ideas for educational programs, on July 24, 2015.
    - The Request for Proposal period for the Kākoʻo Programmatic Agreement Manager II contract closed on July 31, 2015 at 2 p.m. A selection team will meet to review submittals.

  - Planning, Environmental, and Cultural Activities:
    - HART received a compliance letter from the State Historic Preservation Division (SHPD) acknowledging that HART has satisfied requirements of Hawaiʻi Revised Statutes Chapter 6E on Historic Preservation to commence construction in City Center, on June 29, 2015.
    - HART is in the process of finalizing the Project's voluntary cultural monitoring plan.
    - HART continues to coordinate with the City and County of Honolulu, Hawaiʻi Community Development Authority, and other State agencies and legislators on transit-oriented development.
    - HART continues to work with the City Department of Parks and Recreation and community stakeholders to relocate trees which are affected by rail project construction. Revision 1 of the Mitigation Monitoring Program (MMP) was completed and is under review. The revised MMP will be distributed to existing contractors and included in upcoming bid documents, upon final approval.

- **Looking Ahead**
  - Ongoing coordination with DTS to ensure consistent planning of seamless bus and rail services focusing on rail's interim opening date.
  - HART's next consultation meeting with recognized cultural descendants is scheduled for Wednesday, Aug. 5, 2015.
  - HART's next consultation with the Oʻahu Island Burial Council (OIBC) is scheduled for Wednesday, Aug. 12, 2015.
  - Conduct regular monthly HART/SHPD consultation meetings.
  - Attend monthly scheduled Kākoʻo Meetings with Programmatic Agreement Signatory and Consulting Parties.
  - Continue resolution of Post-ROD documentation.
  - Continue coordination with DPP and HCDA regarding transit-oriented development.

6.6 Risk Management

The primary strategy of risk management is to maintain a reserved contingency balance throughout the life of the Project that is acceptable to HART and the FTA. Effective management of project risks is necessary to significantly increase the likelihood of delivering a successful project. Risk management is the systematic process of identifying, analyzing, and responding to risk in a timely manner. Risk management is integral to all phases leading up to revenue service opening including: planning, design, construction, systems testing, system operation start up, safety and security certification, and ultimately to project construction closeout. Risk assessments are performed to identify, assess, prioritize, manage and mitigate risk exposure, and develop prudent contingency plans. The Project Risk Register (RR) is the depository for all risks identified for the Project. Every month, risks contained in the RR are reviewed to confirm risks are appropriately identified, identify new risks, and close out risks that no longer pose an issue.

Maintaining the RR includes assessing the potential for a risk to happen as well as the cost and schedule impacts should the risk occur in isolation. The cost and time impacts to the Project are assessed based on a "most likely scenario" rather than the maximum or the minimum impact. Not all risks (known and unknown) will occur with the same frequency or probability as estimated in isolation. In addition, risks can be eliminated due to design best practices as well as through the implementation of safe alternative means and methods of construction to avoid the occurrence.

This report includes a listing of the top project wide risks which is an aggregate of the individual contract risks. Key metrics for probability of occurrence and cost and schedule impacts are subject to change as more is learned about the risks. At the same time, HART is implementing mitigation of avoidance, transfer, and acceptance/minimization.

NOTES OF SIGNIFICANCE

- Corrective actions are underway to improve cost estimates and forecasting methods as well as cost containment measures being implemented and evaluated to more accurately reflect budget and market conditions.
- Additional focus is being placed on Hawaiian Electric Co. coordination and issue resolution.

ADDITIONAL BACKGROUND (Dates indicated as shown are target goals)
The narrative below provides additional background on the mitigation actions being taken to control and contain cost and schedule impacts to the Project. Provided below are the risk category, target date, and specific actions being taken. Based on the effectiveness of the mitigation efforts, more actions may be required to further contain cost and schedule impacts in future months. The major risks covered are: A) Market Conditions, B) Utilities, C) Right-of-Way, and D) Contractor Production.

A) Market Conditions – The construction market in Hawai'i is similar to the conditions experienced in 2005-07. The year 2015 is expected to set a new record for construction in the state. Backlog is still growing with permit volumes exceeding construction tax revenues by 20%. This translates to increased escalation of about 1% per month for late 2014 and through 2016, according to the Rider Levett Bucknall, Quarterly Construction Cost Report. The escalation from FFGA budget approval in May 2012 through December 2014 is 18.7%. These conditions will affect the craft labor experience which will in turn affect contractor productivity rates.

Mitigation Plan:

- Refine list of primary and secondary mitigation measures.
    - ***Finalize recommendations for primary and secondary mitigation measures and submit to Project Director for Action. – Date: TBD.***
- Identify opportunities within project scope for alternative funding sources. ***Actions:***
    - ***Reach agreement on possible HDOT betterment projects to funding of utility, widening, ITS and Intersection Improvements. – Date: TBD.***
    - ***Research State Law relative to Public Private Partnership funding relative to TOD and parking opportunities. – Date: TBD.***

- Seek additional GET extension of funding to close the gap for market conditions and delay beyond HART's control. ***Actions: The GET extension to cover capital cost overruns due to court and procurement protest delays has made it through the Legislature and Governor's approvals. All that remains is City Council approval.***
    - ***Work with Board, City/County Honolulu and respond to frequently asked questions as needed. – Ongoing.***

B) Utilities – Utilities continue to be an issue for the project. Coordination with HECO indicates that both HART and HECO have significant program demands on their respective organizations.

Mitigation Plan:

- Resources to relocate HECO facilities are not readily available. HART is subject to availability of resources and schedules are frequently set for relocation contractors to be deployed on other islands. This has had an impact on cost and schedule. ***Actions:***
    - ***Seek commitment from HECO (senior, mid and front line management) to dedicate adequate resources for relocation work, design work to ensure opening. – Date: May 6th meeting held. Executives agree to continue to meet weekly until decisions are made.***
    - ***Revise Utility Agreements accordingly. – Date: TBD.***
- Site specific solutions with respect to the 138kV, 46kV and 12kV vertical and horizontal clearance need to be agreed upon by Hawaiian Electric and HART. Affected contracts are KHG, Airport Guideway and City Center Guideway. ***Action:***
    - ***HART to define and evaluate relocation options due to horizontal and vertical conflict resolution needs with HECO. Options include relocate to a new corridor, attach to the guideway or underground. HART to make recommendation to Executive Management for discussions with HECO. – Date: July 2015.***

C) Right-of-Way – There are a few parcels on the east and west segments that are still under active procurement. Lack of access by the contractor has been partially mitigated through re-sequencing the work.

Mitigation Plan:

- West property transactions have been elevated.
- East Side – there are a number of third-party agreements needed on the Airport Section and private parcels on the City Center Section. The revised Delivery and Procurement Plan takes into account the Right-of-Way Acquisition Plan. Cost to Cure property contacts will take time to work through with owners and tenants for the 16-22 parcels. ***Action:***
    - ***Implement property acquisition plan. Develop risk mitigation plan should there be parcels that are not likely to be secured by August 2015 with information available to other Departments in advance. – Date: Complete.***

D) Contractor Production – Planned production rates are not being met for a variety of reasons. There is risk exposure to HART in the form of delayed access to third-party properties. The contractor has been asked to submit schedules reflective of its current production rates for review.

Mitigation Plan:

- HART and the Contractor are focused on solving the production issues within their respective responsibilities. HART requested the Contractor to provide a recovery schedule in accordance with contractor provisions. HART has evaluated the schedule and requested the Contractor resubmit the revised recovery schedule to be used as a revised schedule. HART and the Contractor will use contract provisions to guide the process for resolution of contract delays. ***Action:***
    - ***Contractor to provide Recovery Plan and initiate implementation of the plan upon HART approval. – Date: TBD.***
        - ***Contractor is implementing mitigation measures to avoid additional delay such as adding another traveler and additional equipment for column pours.***

Note: Risks by Contract Package and a Comparison of Risk Ratings can be found in Appendix G.

Figure 18. Risk Matrix

RISK MATRIX					
Legend	Low (1)	Med (2)	High (3)	Very High (4)	Significant (5)
Probability	< 10%	10><50%	50><75%	75%><90%	>90%
Cost	< $250K	$250K><$1M	$1M><$3M	$3M><$10M	>$10M
Schedule	< 1 Mths	1><3 Mths	3><6 Mths	6><12 Mths	>12 Mths
Rating	< =3	3.1-9.49		> =9.5	

The risk matrix is used to score and rank identified risks. The rating is the average cost and schedule impact score multiplied by the probability score.

Figure 19. Top Project Risks

Top Risks July 2015								
Current Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Jul '15 Risk Rating	Jun '15 Risk Rating
111.05	Airport Guideway	Estimates for remaining guideway contracts may be low compared to current market conditions.	90%	5	5	4	22.5	22.5
111.06	City Center Guideway	Cost estimates for remaining guideway contracts may be low due to adjustments using pricing from WOFH Bid.	90%	5	5	4	22.5	22.5
6.06	City Center Guideway	Insufficient utility company resources available to meet the design, approvals, and/or construction schedule. (Dillingham bottleneck)	75%	4	4	5	18	18
34.06	City Center Guideway	Traffic disruptions may result in revised constraints imposed by City or HDOT due to pressure from Third Parties.	75%	4	5	4	18	18
36.06	City Center Guideway	Cost exposure from unexpected utility replacements and/or relocations.	75%	4	5	4	18	18
65.06	City Center Guideway	The relocation of the 138 kv overhead power lines may require new lines erected to provide redundancy during the 'outage.' (Temporary diversion of the 138kV line may be required if grid capacity is insufficient.)	75%	4	5	4	18	18
110.06	City Center Guideway	Real Estate market could rebound before purchase of all needed properties, greatly increasing cost of property and delaying construction if legal actions are pursued.	75%	4	5	4	18	18
6.04	Kamehameha Highway Guideway	Insufficient utility company resources available to meet the design, approvals, and/or construction schedule.	75%	4	5	4	18	18
68.14	Dillingham Kaka'ako Stations	Downtown Station planned to be integrated into Pacific Guardian Center; agreement with owner yet to be proposed. PGC demands could extend negotiations and delay construction or increase construction costs.	75%	4	5	3	16	16
37.06	City Center Guideway	Additional utility easements may be required for private utility companies.	50%	3	5	5	15	15
20.03	West Oahu/Farrington Highway Guideway	Late delivery of/or acceptance of civils, stations, or systems interface to guideway results in change orders.	90%	5	3	3	15	15
129.13	Airport Station Group	Pearl Harbor Station - Potential delays due to community actions concerning historical Pearl Harbor site.	75%	4	2	5	14	14
83.06	City Center Guideway	Delay of utility easement identification for City Center Guideways may result in a delay of ROW acquisition and ultimately the start of construction.	75%	4	4	3	14	14
16.03	West Oahu/Farrington Highway Guideway	Permits and approvals by other agencies may not be provided in a timely manner and delay the project.	75%	4	4	3	14	14

Risks are placed in order based on highest risk rating for the month. The Top Risks list represents risks that could have a major impact on the Project and require additional focus by management. There are other high rated risks that are not listed and are also in the process of being mitigated.

Figure 20. Risks Deleted

Risks Deleted in July 2015					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Jul. '15	Jun. '15
146.05	Airport Guideway	Utilities - HECO and other utility service hook up requests have not been processed according to utility company procedures causing potential delay.	Service requests have been filed.	0	2
37.15	Airport Utilities	Third Party - Additional utility easement and license agreements may be required for Military or private utility companies.	Navy property has been secured.	0	10
61.06	City Center Guideway	Utilities - Halekauwila Street has very limited space, and if additional utility relocation is identified from what is currently planned, either rerouting or additional ROW may be required.	Risk will be transferred to the DB Contractor for Means and Methods as well as their proposed Alternative Technical Concepts with HART approval.	0	7
55.06	City Center Guideway	Utilities - Unforeseen Federal and/or Military cables or fuel lines may result in alignment relocation or costly column span.	Column locations have been pot holed for AIS. Column relocations at this stage will be through DB Contractor proposed Alternative Technical Concepts with greater cost/schedule benefit to HART.	0	5
12.06	City Center Guideway	Structural - Current assumption that new utilities can be carried in, along, under existing bridge structures may not be allowed.	HART is evaluating the potential for using the guideway for attachment of relocated HECO facilities as a cost containment measure.	0	1.5
145.11	WOSG	Procurement - Delays associated with procurement process may impact schedule and/or price.	Contract has been awarded.	0	9

6.7 Community Outreach

- **Activities this month**
  - As part of the agency's Business Outreach Program, HART's outreach team sponsored two free social media marketing workshops for small businesses along the alignment. Two Saturday workshops were held, one in Waipahu and a second in Aiea, to provide businesses with information on using social media to better market their businesses. The workshops were provided as a result of feedback from businesses participating in HART's Business Alliance program.

To date, HART's outreach team has participated in:
- *1,831 presentations and events*
- *1,002 Neighborhood Board meetings*

  - HART sponsored or participated in more than 20 meetings, presentations and events this month. HART sponsored several presentations specifically tailored for businesses in the project's construction zones, including meetings with tenants of Pearlridge Center, Pearl Kai Shopping Center and area schools and churches.

- **Construction Outreach**
  - HART's public outreach team continues its work with businesses along the alignment and met with several business groups and small business owners this month. Traffic and the impact on the flow of customers is a chief concern, and HART continues to work with Kiewit to ensure access points to businesses are maintained and that proper signage is provided. In addition, HART's Business Outreach Programs continues to grow. As part of its Business Outreach Program, HART's Business Alliance Program provides more than 400 businesses with regular email updates regarding traffic, construction and business assistance programs, including free social media and marketing workshops, and other business development programs. HART's Business Alliance group, a partnership between businesses and the transit agency, is designed to provide programs and resources for businesses during construction. The Alliance also provides feedback so that outreach programs can be refined throughout construction.

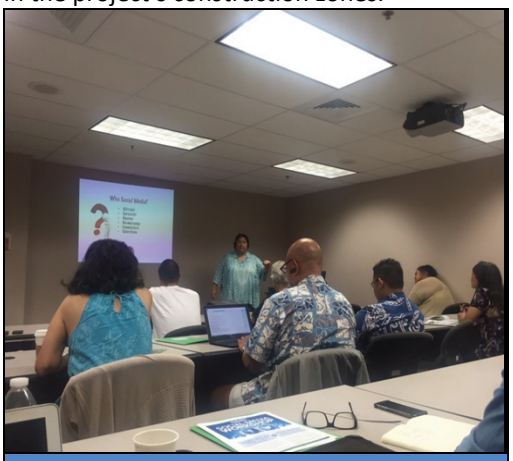
- HART is also working with local businesses on "Shop & Dine on the Line," an online program offering customers special discounts when visiting shops and restaurants along the alignment that are impacted by construction.

- HART has also been proactively meeting with businesses in the urban core to discuss future construction work, as well as traffic impacts. In addition to meeting with individual business owners and business groups in the Dillingham and Kaka'ako areas, HART will hold another business and community meeting in urban Honolulu later this summer as part of its business outreach program.

Figure 21. HART held a media briefing to discuss its balanced cantilever work and provide a construction update.

Executive Director and CEO Dan Grabauskas is joined by Honolulu Mayor Kirk Caldwell and City Councilman Brandon Elefante at an on-site news conference to provide a construction update for the media.

Figure 22. HART's Business Outreach Program provides workshops for businesses in the project's construction zones.



Local business owners and managers learn how to boost business through social media marketing at one of two workshops held this month as part of HART's Business Alliance Program.

- **Community Input**
  - HART's public information team responded to more than 125 inquiries and requests in July that came in via the agency's website, email and 24-hour hotline. Inquiries this month primarily focused on construction activities, particularly traffic impacts.

- **Look Ahead**

  Coming in August:
  - HART sponsors a free workshop to provide information on its online offer program designed to help businesses in the rail construction zones.
  - HART holds two Business Alliance meetings in August as part of its business outreach program for businesses along the first 10 miles of the alignment, from Kapolei to Waipahu and Pearl City to Aiea.

6.8 Staffing

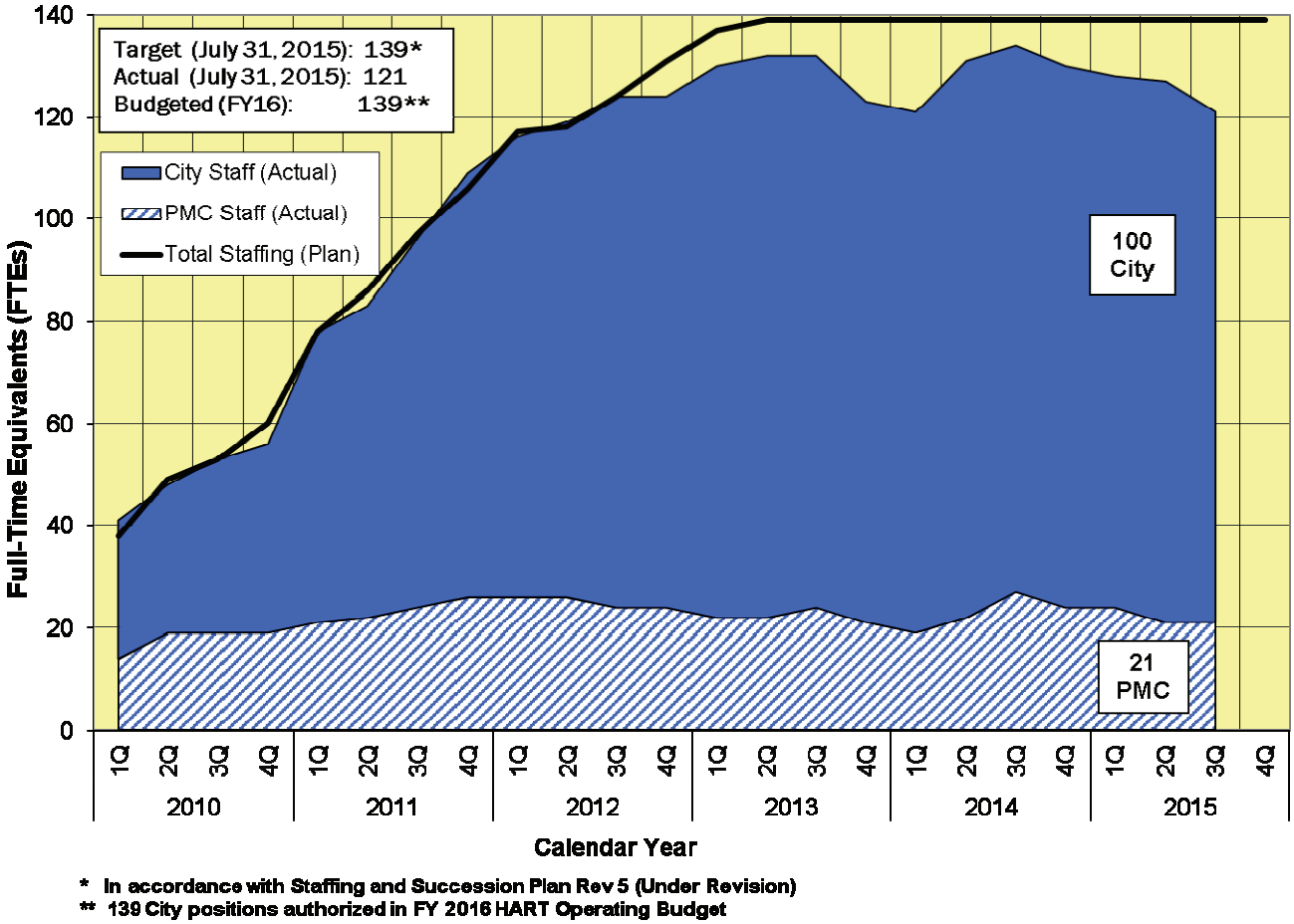
Figure 23. Staffing Activities

Staffing Activities				
Title	Group	New/Existing HART position (City or PMC)	Position Status	Start Month
Executive Management				
Senior Clerk (Receptionist)	Executive Management	Existing (City)	Interviewing	
System Safety & Security				
Safety Certification Manager	System Safety & Security	Existing (PMC)	Recruiting/Interviewing	
Design and Construction				
Director of Design & Construction	Design & Construction	Existing (City)	Filled	Jul
Project Manager	Construction (KHG)	Existing (City)	Recruiting	
Assistant Project Manager	Construction (KHG)	New (City)	Recruiting	
Assistant Project Manager	Construction (WOFH)	New (City)	Recruiting	
Traffic Engineer	Utilities & Traffic Engineering	New (City)	Recruiting	
Lead Utilities Engineer	Utilities & Traffic Engineering	Existing (City)	Recruiting	
Budget and Finance				
Accountant	Budget and Finance	Existing (City)	Recruiting	
Secretary III	Budget and Finance	Existing (City)	Filled	Aug
Procurement				
Deputy Director of Procurement & Contracts	Procurement & Contracts	Existing (City)	Selected/Processing	Aug
Contracts Officer	Procurement & Contracts	Existing (City)	Selected/Processing	Aug
Planning, Permits & Right-of-Way				
Planner V (Land Use)	Planning	Existing (City)	Filled – Civil Service	Jul
Planner III* (Environmental)	Planning	Existing (City)	Recruiting	
Planner VI* (Permits /Hazmat)	Planning	Existing (City)	Filled	Aug
Secretary I	Right-of-Way	Existing (City)	Filled	Jul
Administrative Services				
Personnel Clerk	Administrative Services	New (City)	Recruiting via Civil Service	
Public Information				
Information Specialist II	Public Information	Existing (City)	Recruiting/Interviewing	
Project Controls				
Senior Clerk	Project Controls	Existing (City)	Filled	Aug

*Actual hiring level will be commensurate with candidate's qualifications.

HART currently receives direct project support in centralized functions from the following city departments: Honolulu Police Department (HPD), Department of Information Technology (DIT), Department of Budget and Fiscal Services (BFS), Department of Design and Construction (DDC), Corporation Counsel (COR) and Department of Human Resources (DHR); and from the State of Hawai'i Department of Transportation (HDOT) on Consultant Services Contracts.

Figure 24. Project Staffing (Actual vs. Planned)



The actual number of employees reflects employees hired during this period as well as employees who left the project from both HART and the PMC staffs.

Note: For a project organization chart, see Appendix H.

APPENDICES

Appendix A. Action Items

The following are Action Items for HART and/or the PMOC, which are reviewed and discussed on a monthly basis.

Action Items						
Item No.	Item	Responsible Party	Date Identified	Date Due	Date Completed	Status
1	Provide HECO chronology of 50-foot offset requirement	HART	May-14	Jul-15		Open
2	Resolve issue with AHJV regarding cost savings associated with change to 4-car trains	HART	Mar-14	Jul-15	Jul-15	Closed – HART is receiving a $5.2M credit for resolution of the 4-car train change.
3	Resolve HECO issue with Davis-Bacon requirements	HART/ FTA	Mar-14	On-going		Open – HECO waiver is pending. HART provided MOU to PMOC.
4	**Updates resulting from Risk Refresh:**					
4a	Update the Contract Packaging Plan	HART	Aug-14	Jul-15		In progress – Draft provided to PMOC, but changes may be incorporated on updated estimate and schedule.
4b	Re-baseline Draft Financial Plan	HART	Apr-14	Sept-15		In progress.
4c	Re-baseline budget	HART	Apr-14	Dec-15		In progress. (EAC will be available in July, but an approved re-baseline budget will not occur until late 2015.)
4d	Re-baseline MPS	HART	Apr-14	Jul-15	Jul-15	Closed – PMOC is reviewing.
4f	Update RCMP (including Hold Points and Secondary Mitigation Measures)	HART	Sept-13	Jun-15		In progress – PMOC provided review comments; conference call may be scheduled to address comments and HART's responses.
5	MPS Workshop	HART/ PMOC	Feb-15	TBD		To be scheduled when Preliminary Update of MPS is available.
6	Draft Project Management Plan	HART	Mar-15	Jul-15		Preliminary Draft provided to PMOC in April; DRAFT PMP pending updates of estimates and MPS.
7	Include construction safety statistics in the HART Monthly Report	HART	Apr-15	Jun-15	Jul-15	Closed – Included in June 2015 HART Monthly Report.
8	Provide OP 54 (Readiness for Revenue Operations) checklist/roadmap	FTA/ PMOC	Apr-15	Jun-15		PMOC to provide sample report.
9	Provide confirmation that Ship America requirements will be satisfied	HART	May-15	Jul-15	Jul-15	HART provided correspondence from the US Maritime Administration providing approval to ship the first 4 LRVs on non-US flag vessel.
10	Provide updated Post-ROD documentation matrix	HART	Jul-15	Jul-15	07/08/15	Closed – HART provided immediately following July Progress Meeting; resubmitted via email.
11	Provide WOSG Bid Abstract	HART	Jul-15	Jul-15	07/08/15	Closed – HART provided to PMOC 07/08/15.
12	Provide US Maritime Agency notice which allows AHJV to ship the first 4 cars from an non-US carrier	HART	Jul-15	Aug-15	07/20/15	Closed- HART provided to PMOC 07/20/15.
13	Provide refined HART cost estimate for Airport/City Center Guideway & Stations DB contracts	HART	Jul-15	Jul-15		Open
14	Provide HART letter to DOL regarding Davis Bacon issue	HART	Jul-15	Jul-15	07/13/15	Closed – HART provided to PMOC 07/13/15.

Appendix B. Project Contingency Management General Background and Clarifications

Current Contingency Balance = $501.7M

Current Known Changes Contingency = $0M

The FFGA Baseline Budget for Project Contingency is approximately $643.6M and consists of the following elements:

1) Unallocated Contingency – Reserve contingency to address unknown changes to the Project and not currently allocated to a particular work package.
2) Project Allocated Contingency – Contingency allocated to each work package to address potential uncertain changes within each respective work package.
3) Allowance – A reserve designated for Final Design contracts and committed under the contracts.

The $643.6M Baseline Budget for Total Project Contingency does not include amounts for Known Changes yet to be finalized at the time the Bottom-Up Estimate (BUE) was prepared.

As the project progresses, budget transfers will be executed, moving budgeted project scope and budgeted contingencies as appropriate to reflect either a realized cost savings, cost overruns, or a transfer of scope. It is expected that project contingency will continue to be drawndown as the overall design is further developed, risks are identified, and construction progress continues to advance. The following list details ways in which project contingency can either increase or decrease:

1) The budgeted amount for a contract package is either lower or higher than the actual executed contract amount. Contingency will increase if the budgeted amount is higher than the actual contract amounts which results in a budget surplus, and vice versa if the budgeted amount is lower.
2) Increase of a contract amount through the execution of a change order or contract amendment. Contingency is decreased and transferred to the appropriate SCC.
3) Transfer of work scope, e.g. utility relocation, between contract packages through a change order. The scope value from one contract is decreased and transferred to Contingency. Contingency is then decreased by the same scope value and transferred to the other contract. Contingency is used as a "holding account" in this instance.
4) Revisions to contract packaging. Further evaluation of contract packages may be considered to seek budget savings and/or to mitigate cost or schedule impacts. Budget savings, if any, would be transferred to Contingency.
5) Utilization of allowance in design contracts. The allowance amount to be utilized will decrease this contingency category and will be transferred to the appropriate SCC.

Changes Identified and Project Performance

HART and the PMOC continue to hold a monthly breakout session to review cost containment strategies and changes being considered for each contract. Changes are tracked by three categories which are determined by how well defined a change is and are summarized as Changes Identified in Project Cost reports. HART continually manages the strategy to avoid or mitigate as well as plan the timing of any potential changes. Breakout session discussions focus on opportunities to reduce costs and accelerate contract-scheduled activities to attain key milestones earlier than targeted. The session concludes with an overview of the cost and schedule drawdown curves, if and when changes might occur, in order to assess project performance against total project contingencies and buffer float.

The Risk and Contingency Management Plan (RCMP), Contract Packaging Plan (CPP), Master Project Schedule (MPS), Project Budget and Financial Plan updates are all in progress. The RCMP includes updates to the cost and schedule contingency drawdown curves, which establish minimum and buffer zone levels of cost and schedule contingency in accordance with FTA recommendations. Over the course of the project, if the cost or schedule contingency enter into the buffer zone (the area above the minimum contingency), Project Management will immediately implement actions to maintain the level of contingency appropriate for the project stage.

Known Changes Contingency

Known Changes, though tracked separately from the Project Contingency established under the FFGA, functions like contingency and is designated as SCC 90.07 on project cost reports. In re-baselining the Project Budget for FFGA, a bottoms-up estimate (BUE) was developed for each work package identified in the CPP based on the level of design and current pricing of material, equipment, construction labor, professional services, real estate and all other costs. These revised estimates took into account the reduction of contingency to reflect the advancement of Final Design since the Preliminary Engineering phase. Contingency was then allocated in accordance with FTA guidelines and current risk modeling methodologies. The net effect was a reduction of approximately $170M of contingency between the previous Final Design Project Budget and the FFGA Project Budget. Included in the base costs of the BUE were elements that were considered "Known" or pending changes that were still subject to final negotiations with contractors and the execution of change orders. The estimated costs for Known Changes were applied to work packages established under the FFGA. Based on the level of risk, the estimated costs for Known Changes were either classified as base cost or as separate contingency for specific work packages (contingencies eventually convert to base costs via change order). Of the total $170M estimated for Known Changes, $97M was classified as base cost and allocated to multiple contracts. The remaining $74M was classified as "contingency" in order to process all changes using a consistent methodology of transferring budget from contingency to the appropriate base cost code when a change order is executed. As it was intended for this reserve, this line item has been debited to zero as all changes contemplated to draw-down against "known" contingency has been executed.

HART Project Contingency Drawdown with Details

Data as of 07/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
July '12 (Bottoms-Up Estimate)			**Beg. Balance:**	**$643.6**	
1)	FD-240	Farrington Highway Stations Group FD	Budget Transfer at Bottoms-Up-Estimate from Project Scope to Contingency (contract allowance)	$58,443	90.03 - Contract Allowance
2)	FD-430	Airport Section Guideway Utilities FD	Budget Transfer for Contract Award less than the ASGU FD contract budget	$2,054,106	90.02 - Allocated Contingency
3)	MM-975	LEED Commissioning Services	Budget Transfer for Contract Award above the LEED Comm. Services contract budget	($35,623)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer for Contract Award above the KHG DB contract budget	($220,883)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer for Ins. Covg per executed CO No. 004	$3,995,230	90.02 - Allocated Contingency
			July '12 Contingency Drawdown	**$5,851,273**	
			July '12 - Ending Contingency Balance	**$649.4**	
August '12			**Beg. Balance:**	**$649.4**	
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Contract Awarded under WOSG FD contract budget	$1,808,200	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Budget Transfer for Contract Awarded under CCGU FD contract budget	$5,917,945	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 17 - Procure and Install Portable Buildings	($2,670,000)	90.02 - Allocated Contingency
			August '12 Contingency Drawdown	**$5,056,145**	
			August '12 - Ending Contingency Balance	**$654.5**	
September '12			**Beg. Balance:**	**$654.5**	
	N/A	N/A	No Contingency Drawdown	$0	
			September '12 Contingency Drawdown	**$0**	
			September '12 - Ending Contingency Balance	**$654.5**	
October '12			**Beg. Balance:**	**$654.5**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 21 - Builders Risk Insurance Coverage	($56,689)	90.02 - Allocated Contingency
			October '12 Contingency Drawdown	**($56,689)**	
			October '12 - Ending Contingency Balance	**$654.4**	
November '12			**Beg. Balance:**	**$654.4**	
1)	FD-440	Airport Stations Group FD	Budget Transfer for Contract Award under ASG FD the contract budget	$227,784	90.03 - Contract Allowance
2)	FD-340	Kamehameha Highway Stations Group FD	Budget Transfer for Contract Award under KHSG FD the contract budget	$202,469	90.03 - Contract Allowance
3)	MM-905	General Engineering Consultant	Budget Transfer to align contract budget with Committed value	($120,630)	90.02 - Allocated Contingency
			November '12 Contingency Drawdown	**$309,623**	
			November '12 - Ending Contingency Balance	**$654.7**	
December '12			**Beg. Balance:**	**$654.7**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 01 - Design & Engineering Cost Estimates	($275,000)	90.02 - Allocated Contingency
			December '12 Contingency Drawdown	**($275,000)**	
			December '12 - Ending Contingency Balance	**$654.4**	
January '13			**Beg. Balance:**	**$654.4**	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 01 - Acacia Rd alternative analysis	($15,981)	90.02 - Allocated Contingency
			January '13 Contingency Drawdown	**($15,981)**	
			January '13 - Ending Contingency Balance	**$654.4**	
February '13			**Beg. Balance:**	**$654.4**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 26 - Ins. Covg Requirement/ Additional BGGV at Ft. Weaver Rd	($1,670,178)	90.02 - Allocated Contingency
			February '13 Contingency Drawdown	**($1,670,178)**	
			February '13 - Ending Contingency Balance	**$652.8**	
March '13			**Beg. Balance:**	**$652.8**	
1)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 09 - Waipahu Station sewer	($3,885)	90.03 - Contract Allowance
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 06 - Ins. Covg Requirements/ Dbl Crossovers Insulated Joints	($464,876)	90.02 - Allocated Contingency
			March '13 Contingency Drawdown	**($468,761)**	
			March '13 - Ending Balance	**$652.3**	
April '13			**Beg. Balance:**	**$652.3**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 01 - Second elevator provision	($81,013)	90.03 - Contract Allowance
2)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 26	$1,670,178	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 06	$434,000	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer to Align current budget to contract Schedule of Milestones	$600	90.02 - Allocated Contingency
			April '13 Contingency Drawdown	**$2,023,765**	
			April '13 - Ending Contingency Balance	**$654.3**	
May '13			**Beg. Balance:**	**$654.3**	
	N/A	N/A	No Contingency Drawdown	$0	
			May '13 Contingency Drawdown	**$0**	
			May '13 - Ending Contingency Balance	**$654.3**	
June '13			**Beg. Balance:**	**$654.3**	
	N/A	N/A	No Contingency Drawdown	$0	
			June '13 Contingency Drawdown	**$0**	
			June '13 - Ending Contingency Balance	**$654.3**	

HART Project Contingency Drawdown with Details

Data as of 07/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
July '13			**Beg. Balance:**	**$654.3**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 04 - Antenna Engineering Design Services	($464,114)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 07 - Archeological Inventory Survey (AIS) Provisional Sum Part 2	($3,000,000)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 08 - Maintenance & Storage Facilty Yard Switch Machines	($553,000)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 09 - Yard Layout Revisions	($514,426)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 10 - Train Configuration	($27,700)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 11 - Preliminary Design & Supplemental Project Mgt	($694,866)	90.02 - Allocated Contingency
			July '13 Contingency Drawdown	**($5,254,106)**	
			July '13 - Ending Contingency Balance	**$649.1**	
August '13			**Beg. Balance:**	**$649.1**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 30 - Archeological Inventory Survey (AIS) Provisional Part 2	($5,800,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 32 - Kaloi Channel Station Mod Concept	($72,381)	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 34 - Traditional Cultural Property Construction Partial Suspension	($1,195,094)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 36 - Ho'opili Station Relocation Design	($490,615)	90.02 - Allocated Contingency
5)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 06 - Archeological Inventory Survey (AIS) Provisional Part 2	($1,500,000)	90.02 - Allocated Contingency
6)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 02 - Canopy Redesign	($504,386)	90.03 - Contract Allowance
7)	MI-930	Elevator & Escalator Install/Maint	Budget Transfer for Contract Awarded under E&E I/M contract budget	$3,738,472	90.02 - Allocated Contingency
			August '13 Contingency Drawdown	**($5,824,004)**	
			August '13 - Ending Contingency Balance	**$643.2**	
September '13			**Beg. Balance:**	**$643.2**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 33 - Provisional Sum HDOT Joint Use and Occupancy	($4,900,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 35 - Aesthetic Column Design Conflict	($120,812)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 12 - HNTB Design Escalation	($823,500)	90.02 - Allocated Contingency
4)	FD-240	Farrington Highway Stations Group FD	Executed Contract Amendment No. 10 - NTP 2 Delay/Design Delay from Core Systems Contract & West Oahu Farrington Highway DB Contract	($270,985)	90.02 - Allocated Contingency
			September '13 Contingency Drawdown	**($6,115,297)**	
			September '13 - Ending Contingency Balance	**$637.1**	
October '13			**Beg. Balance:**	**$637.1**	
1)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 13 - Ins. Covg Requirements/ Roof Access Modification	($282,155)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 13 for Ins. Covg Requirements	$266,500	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 37 - Ala Ike Street Mod/ W36 at DR Horton & Farrington HWY	$24,815	90.02 - Allocated Contingency
4)	DBOM-920	Core Systems Design Build O/M	Executed Change Order No. 05 - Platform Screen Gates Systems	($23,301,657)	90.02 - Allocated Contingency/ 90.01 - Unallocated Contingency
5)	FD-550	Lillingham and Kaka'ako Stations Group FD	Budget Transfer for Contract awarded under DKSG FD contract budget	$1,157,760	90.02 - Allocated Contingency
			October '13 Contingency Drawdown	**($22,134,737)**	
			October '13 - Ending Contingency Balance	**$615.0**	
November '13			**Beg. Balance:**	**$615.0**	
1)	DB-120	West Oahu/Farrington Highway Guideway DB	Executed Change Order No. 38 - Insurance Coverage Requirement Q4 2013	($1,600,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu/Farrington Highway Guideway DB	Budget Transfer for Change Order No. 038 for Ins. Covg. Requirements	$1,600,000	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 014 - Preliminary Design & Supplemental Project Management 2	($214,846)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 015 - Yard Layout Revisions/RFP Structural Steel Modification	($1,723,000)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Budget Transfer for Change Order No. 015 for Ins. Covg. Requirements	$223,000	90.02 - Allocated Contingency
6)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 01 - Archeological Inventory Survey (AIS) Suspension	($532,900)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Station Group FD	Budget Transfer for Contract Award for FHSG FD II	($2,700,205)	90.01 - Unallocated Contingency
			November '13 Contingency Drawdown	**($4,947,351)**	
			November '13 - Ending Contingency Balance	**$610.0**	
December '13			**Beg. Balance:**	**$610.0**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 05 - Ulena St redesign scope impact	($248,958)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Station Group FD	Executed Contract Amendment No. 03 - Design relocation of HECO 46Kv and fiber optic lines	($23,928)	90.02 - Allocated Contingency
			December '13 Contingency Drawdown	**($272,886)**	
			December '13 - Ending Contingency Balance	**$609.8**	
January '14			**Beg. Balance:**	**$609.8**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 06 - Archeological Inventory Survey (AIS) Suspension	($2,306,450)	90.02 - Allocated Contingency
2)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment No. 02 - Soil Resistance Test and Max Sag Calculation	($406,153)	90.02 - Allocated Contingency
3)	MM-290	Construction Engineering & Inspection West	Budget Transfer for Contract Award less than CE&I West contract budget	$181,068	90.02 - Allocated Contingency
4)	MM-595	Construction Engineering & Inspection East	Budget Transfer for Contract Award less than CE&I East contract budget	$1,102,817	90.02 - Allocated Contingency
			January '14 Contingency Drawdown	**($1,428,718)**	
			January '14 - Ending Contingency Balance	**$608.3**	
February '14			**Beg. Balance:**	**$608.3**	
1)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 07 - Resist & Sag Geotech Investigation	($132,900)	90.02 - Allocated Contingency
2)	HRT-201	HART ODC	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	($11,487)	90.02 - Allocated Contingency
3)	MM-910	GEC II	Budget Transfer for Contract Award - Archeological & Cultural Monitoring & Core Systems Support contracts	($4,424,173)	90.02 - Allocated Contingency
4)	MM-960	Archeological & Cultural Monitoring	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	$36,761	90.02 - Allocated Contingency
5)	MM-962	Core Systems Support	Budget Transfer for Contract Award - Core Systems Support contract	$4,398,899	90.02 - Allocated Contingency
			February '14 Contingency Drawdown	**($132,900)**	
			February '14 - Ending Contingency Balance	**$608.2**	

HART Project Contingency Drawdown with Details

Data as of 07/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
March '14			**Beg. Balance:**	**$608.2**	
	N/A	N/A	No Contingency Drawdown	$0	
			March '14 Contingency Drawdown	**$0**	
			March '14 - Ending Contingency Balance	**$608.2**	
April '14			**Beg. Balance:**	**$608.2**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 04 - East Kapolei Staff Room Pre-Final Submittal	($60,243)	90.03 - Contract Allowance
2)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment No. 08 - Notice-to-Proceed 4&5/Provisional Sum for Design Support during bid	($1,588,014)	90.03 - Contract Allowance
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 016 - Rail Lubricators	($102,000)	90.02 - Allocated Contingency
4)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 017 - Yard Layout Reconfiguration/Automated Train Operation Design	($2,125,000)	90.02 - Allocated Contingency
5)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 018 - Rail Material Storage Plan	($370,000)	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 019 - Train Wash Facility Shortening	$0	90.02 - Allocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 040 - Precast Yard Alternative Site	($12,400,638)	90.02 - Allocated Contingency
8)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 041 - Revised Track Alignment and Profile	($46,808)	90.02 - Allocated Contingency
9)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 042 - Sandwhich Isles Communications Utility Relocation @ North South Rd	($798,049)	90.02 - Allocated Contingency
10)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 005 - Rebar Clear Spacing Design Criteria	$0	90.02 - Allocated Contingency
			April '14 Contingency Drawdown	**($17,490,752)**	
			April '14 - Ending Contingency Balance	**$590.7**	
May '14			**Beg. Balance:**	**$590.7**	
1)	FD-140	West Oahu Stations Group FD	Budget Transfer for Executed Contract Amendment No. 05 - Final Design for relocated Hoopili Station	$220,123	90.02 - Allocated Contingency
2)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 008 - APEC work restrictions/abandoned utilities removal	($505,674)	90.02 - Allocated Contingency
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 009 - Emergency walkway/insurance covg. Requirements 2013	($839,000)	90.02 - Allocated Contingency
4)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 007 - Relocate TPSS to system site #3	$867,054	90.02 - Allocated Contingency
5)	MM-915	HDOT MOT Consultant	Budget Transfer for Executed Contract Amendment No.002 - Increase T&M contract value	$287,391	90.02 - Allocated Contingency
6)	MM-975	MSF LEED Consultant	Budget Transfer for Executed Contract Amendment No. 001 - LEED measurement and verification plan	($9,910)	90.02 - Allocated Contingency
7)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 020 - CSC consolidated changes construction	($22,500,000)	90.01 - Unallocated Contingency
8)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 025 - OSB reconfiguration	$170,000	90.02 - Allocated Contingency
			May '14 Contingency Drawdown	**($22,310,016)**	
			May '14 - Ending Contingency Balance	**$568.4**	
June '14			**Beg. Balance**	**$568.4**	
1)	DB-200	Maintenance & Storage Facility DB	Board Approved RFCC 00010 - Amendment 1 Non-Rail Escalation	($5,000,000)	90.02 - Allocated Contingency
			June '14 Contingency Drawdown	**($5,000,000)**	
			June '14 - Ending Contingency Balance	**$563.4**	
July '14			**Beg. Balance**	**$563.4**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 008 - Platform Screen Gates Mobilization	($898,194)	90.02 - Allocated Contingency
2)	ROW	Real Estate/Right-of-Way	Budget Transfer for Contract Award above the Real Estate Map & Survey budget	($1,344,612)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	$1,007,860	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	$1,556,107	90.02 - Allocated Contingency
			July '14 Contingency Drawdown	**$321,161**	
			July '14 - Ending Contingency Balance	**$563.7**	
August '14			**Beg. Balance**	**$563.7**	
1)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 010 - Delay in issuance of Notice-to-Proceed 2 & 3	($1,828,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Amendment No. 006 - Passenger screen gates	($80,233)	90.02 - Allocated Contingency
3)	DBB-505	Airport Section Utility Construction DBB	Budget Transfer for Contract Award above Airport Section Utility Construction original budget	($2,755,321)	90.02 - Allocated Contingency
4)	MM-946	On Call Hazmat Removal Consultant	Budget Transfer due to scope transfer from ROW to Hazmat consultant	$470,823	90.02 Allocated Contingency
5)	MM-945	On Call Contractor	Budget Transfer for Contract Award above On Call Contractor original budget	($130,435)	90.02 - Allocated Contingency
			August '14 Contingency Drawdown	**($4,323,166)**	
			August '14 - Ending Contingency Balance	**$559.4**	
September '14			**Beg. Balance**	**$559.4**	
1)	MM-950	OCIP Consultant Contract	Budget Transfer to unallocated contingency as estimate at completion is less than current budget	$750,000	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 027 - Traditional Cultural Properties (TCP) Suspension	($473,593)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 026 - Insurance Coverage Requirements 2014	($1,112,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 011 - Revised Vehicle Criteria/Construction Safety Security Plan	($231,500)	90.02 - Allocated Contingency
5)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 012 - Insurance Coverage Requirements 9/1/13 - 6/30/14	($1,400,000)	90.02 - Allocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 045 - Standard Specification Revision 2.0	($2,650,000)	90.02 - Allocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 046 - Insurance Coverage Requirements 2014	($3,400,000)	90.02 - Allocated Contingency
8)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment 004 - Aesthetic Station Column	($271,850)	90.02 - Allocated Contingency
9)	FD-530	City Center Guideway Utilities FD	Executed Contract Amendment 005 - City Center Section Rescue Cart Scope Impact	($72,000)	90.02 - Allocated Contingency
10)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 001 - Special Provisions Update/Shear Wave Analysis	($27,932)	90.03 - Contract Allowance
11)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 003 - Historic Architect/Replace Highway Sign	($71,911)	90.03 - Contract Allowance
12)	FD-340	Kamehameha Highway Stations Group FD	Executed Contract Amendment 005 - Added Bus Shelters at Aloha Stadium Station	($28,893)	90.03 - Contract Allowance
13)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 010 - Aesthetic Station Column and Pearl Harbor Station Redesign	($238,750)	90.02 - Allocated Contingency
14)	FD-430	Airport Section Guideway Utility FD	Executed Contract Amendment 011 - Airport Section Rescue Cart Scope Impact	($45,000)	90.02 - Allocated Contingency
15)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment 007 - Traffic Signal Conflict UHWO/Ho'opili Access Road	($82,722)	90.03 - Contract Allowance
			September '14 Contingency Drawdown	**($9,336,151)**	
			September '14 - Ending Contingency Balance	**$550.1**	
October '14			**Beg. Balance**	**$550.1**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 009 - WOFH Guideway Alignment for CSC	($145,000)	90.02 - Allocated Contingency
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 028 - Escalation due to Schedule Impacts	($8,500,000)	90.01 - Unallocated Contingency

HART Project Contingency Drawdown with Details

Data as of 07/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
3)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 013 - Station Load & Configuration Mods.	($1,350,000)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 047 - Station Load & Configuration Mods.	($4,400,000)	90.02 - Allocated Contingency/ 90.01 - Unallocated Contingency
5)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 002 - Extension of PM Services	($790,000)	90.02 - Allocated Contingency
6)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 003 - Add Pedestrian Bridges to HIA Stations	($434,840)	90.02 - Allocated Contingency
7)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 001 - Extension of PM Services	($297,500)	90.03 - Contract Allowance
8)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 002 - Incorporation of Comments	($768,756)	90.01 - Unallocated Contingency
9)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 003 - Value Engineering	($472,705)	90.01 - Unallocated Contingency
10)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 004 - EOR/AOR	($748,539)	90.01 - Unallocated Contingency
11)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 010 - Temporary Parking Lot Near UHWO/UHWO & Ho'opili Sewage Holding Tank	($102,298)	90.03 - Contract Allowance
12)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 011 - Extension of PM Services	($297,500)	90.02 - Allocated Contingency
			October '14 Contingency Drawdown	**($18,307,138)**	
			October '14 - Ending Contingency Balance	**$531.8**	
		November '14	**Beg. Balance**	**$531.8**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 012 - Delete Ticket Vending Machines	$10,350,000	90.02 - Allocated Contingency
2)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendement No. 002 - General Excise Tax credit	$385,586	90.02 - Allocated Contingency
			November '14 Contingency Drawdown	**$10,735,586**	
			November '14 - Ending Contingency Balance	**$542.5**	
		December '14	**Beg. Balance**	**$542.5**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 010 - HRT Train Mock-up Shipment/Delivery	($63,715)	90.02 - Allocated Contingency
3)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 013 - HECO Connection Charges	($150,000)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 014 - Escalation due to Schedule Impacts	($3,500,000)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 048 - Escalation due to Schedule Impacts	($15,000,000)	90.01 - Unallocated Contingency
			December '14 Contingency Drawdown	**($18,713,716)**	
			December '14 - Ending Contingency Balance	**$523.8**	
		January '15	**Beg. Balance**	**$523.8**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 011- Eliminate Station Manager Booths	$310,000	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 050 - Escalation due to Schedule Impacts Subcontractor Ameron Aggregate	($464,413)	90.01 - Unallocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 051 - Escalation due to Schedule Impacts Subcontractor Anti-Graffiti Paint	($21,476)	90.01 - Unallocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 052 - Escalation due to Schedule Impacts Subcontractor HPD Spec Duty Officer	($156,123)	90.01 - Unallocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 053 - Escalation due to Schedule Impacts Subcontractor MESA Blocks	($71,663)	90.01 - Unallocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 054 - Escalation due to Schedule Impacts Subcontractor Road Builder	($716,655)	90.01 - Unallocated Contingency
7)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 055 - Escalation due to Schedule Impacts Subcontractor Post Tension Strand Accessories	($767,177)	90.01 - Unallocated Contingency
8)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 056 - Escalation due to Schedule Impacts Subcontractor Ameron Rolled Drilled Shaft Casings	($102,675)	90.01 - Unallocated Contingency
9)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 057 - Escalation due to Schedule Impacts Subcontractor PAC Electric	($777,883)	90.01 - Unallocated Contingency
10)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 014 - Eliminate Secondary Emergency Access at MSF	$50,000	90.02 - Allocated Contingency
11)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 012 - Contaminated Soil, 7 Piers, Wayside Lubricators	($58,700)	90.02 - Allocated Contingency
12)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 003 - Scope for Downtown Sta/Civic Center Sta/Kapalama Sta & Bike Ramps	($480,017)	90.02 - Allocated Contingency
13)	FD-550	Dillingham Kaka'ako Stations Group FD	Executed Contract Amendment No. 004 - Ala Moana Transit Ctr-Chinatown Sta Geotech Expedited Station Loads	($618,717)	90.02 - Allocated Contingency
14)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 005 - Addition of Bike Ramps to FHSG Stations	($17,744)	90.02 - Allocated Contingency
15)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 006 - Addition of 30' Guideway Section West Loch and Waipahu Stations	($57,000)	90.02 - Allocated Contingency
16)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 007 - MODS to West Loch and Waipahu Girder Design	($38,000)	90.02 - Allocated Contingency
			January '15 Contingency Drawdown	**($3,988,243)**	
			January '15 - Ending Contingency Balance	**$519.8**	
		February '15	**Beg. Balance**	**$519.8**	
1)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 058 - Kaloi Drainage Channel Geotechnical	($987,501)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 059 - Revision of Waipahu Guideway, LCC Station & Pedestrian Vibration Criteria	($301,052)	90.02 - Allocated Contingency
3)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 060 - Waiawa Scour Design Actuals	($288,494)	90.02 - Allocated Contingency
4)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 061 - Kaloi Scour Design Actuals	($636,571)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 062 - West Loch and UHWO Station Revisions of Guideway	($64,212)	90.02 - Allocated Contingency
6)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 063 - Procurement & Delivery LCC Modular Bldg	($1,919,021)	90.01 - Unallocated Contingency
			February '15 Contingency Drawdown	**($4,196,851)**	
			February '15 - Ending Contingency Balance	**$515.6**	
		March '15	**Beg. Balance**	**$515.6**	
1)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Amendment No. 015 - Test and Storage Track Changes at MSF	($2,510,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - WOSG Rebid and VE Items, 4&6 Bay Station Canopy Roofs, Change to CSC Dev location	($360,000)	90.02 - Allocated Contingency
3)	FD-140	West Oahu Stations Group FD	Executed Change Amendment No. 013 - WOSG Rebid and VE Items, 4&6 Bay Station Canopy Roofs, Change to CSC Dev location	($245,000)	90.03 - Contract Allowance
4)	FD-530	City Center Guideway Utilities FD	Executed Change Amendment No. 006 - Management Extension thru October 2014	($952,500)	90.02 - Allocated Contingency
5)	DBB-525	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 001 - HDOT A Utility Relocation at Piers	($490,863)	90.02 - Allocated Contingency
6)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amendment No. 006 - Misc RFI's Interface Items	($309,176)	90.02 - Allocated Contingency
7)	FD-340	Kamehameha Highway Stations Group FD	Executed Change Amendment No. 006 - Aloha Stadium Low Impact Development Requirement	($43,000)	90.03 - Contract Allowance
			March '15 Contingency Drawdown	**($4,910,539)**	
			March '15 - Ending Contingency Balance	**$510.7**	
		April '15	**Beg. Balance**	**$510.7**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Redesign of East kapolei Escalator	($66,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 014 - Hoopili Grading	($175,000)	90.03 - Contract Allowance
3)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 015 - Redesign of TPSS Trench at SS3 and CSC Cabinets at East Kapolei	($28,000)	90.02 - Allocated Contingency
4)	DBB-525	Airport Section Guideway 7 Pier Construction	Executed Change Order No. 002 - Contractor to Perform CSL Testing	($17,378)	90.02 - Allocated Contingency
5)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 049 - Hazmat Assessment for LCC Portables	($9,174)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 07/30/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
			April '15 Contingency Drawdown	**($295,552)**	
			April '15 - Ending Contingency Balance	**$510.4**	
		May'15	**Beg. Balance**	**$510.4**	
1)	FD-140	West Oahu Stations Group FD	Executed Contract Amendment No. 016 - PSG/Rev to Canopy Design/Power to Hoopili Sta/Scour Countermeasures	($132,000)	90.03 - Contract Allowance
2)	FD-240	Farrington Highway Stations Group-2 FD	Executed Contract Amendment No. 009 - West Loch Generator	($7,000)	90.03 - Contract Allowance
3)	FD-440	Airport Stations Group FD	Executed Contract Amendment No. 004 - HIA Obstruction Investigation	($20,000)	90.03 - Contract Allowance
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 016 - Delay to Method Shaft 6	($121,000)	90.02 - Allocated Contingency
5)	DBOM-920	Core Systems Contract Design Build O/M	Executed Change Order No. 016 - Delete Passenger Counters Onbrd Time -Wifi Provsions on Veh	$114,161	90.02 - Allocated Contingency
6)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 030 - OSB 1st Fl Bldg Int Ext System Design Rev	($450,000)	90.02 - Allocated Contingency
			May '15 Contingency Drawdown	**($615,839)**	
			May '15 - Ending Contingency Balance	**$509.8**	
		June'15	**Beg. Balance**	**$509.8**	
1)	MM-923	HDOT Coordination Consult City Center	Budget Transfer from Inactive CPP, HDOT Airport consultant took on City Center scope	$1,084,782	90.01 - Unallocated Contingency
2)	MM-960	Archeological & Cultural Monitoring	Budget Transfer to Provide funding for FY2015	($551,092)	90.01 - Unallocated Contingency
3)	FD-430	Airport Section Guideway Utilities FD	Executed Contract Amendment No. 013 - Airport Design Build Package	($523,640)	90.02 - Allocated Contingency
4)	MM-901	Program Management Support Conslt(PMSC-2)	Budget Transfer for excercised option for one year extension of services	($7,616,377)	90.01 - Unallocated Contingency
5)	DBOM-920	Core Systems Contract Design Build O/M	Budget Transfer for On Call Contractor performing CSC related scope at the ROC	($500,000)	90.02 - Allocated Contingency
			June '15 Contingency Drawdown	**($8,106,327)**	
			June '15 - Ending Contingency Balance	**$501.7**	
		***July '15 - Board Approved Changes Only - Pending execution**			
1)	DBOM-920	Core Systems Contract Design Build O/M	RFCR 00016 - Four Car Consists	$5,200,000	90.02 - Allocated Contingency
			Subtotal Board Approved Contingency Drawdown	**$5,200,000**	
			July '15 - Ending Contingency Balance (Pending Execution)	**$506.9**	

Appendix C. Project Cost Reports (data as of June 26, 2015)

Cost reports are run from the HART Contract Management System (CMS)

Project Costs by Contract

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by Contract - One Line Summary

			A	B	C=A+B	D	E	F
			COMMITTED			AFE	INCURRED	PERCENT
CPP No	Title		Original	Changes	Current *	AFE**	Incurred To Date	%
ART	Project Wide ART	T&M	0	0	0	0	0	0%
CCH-100	Inactive Hart/City CCH		15,348,443	0	15,348,443	0	14,925,228	97%
CCH-101	HART/ City Dept of BFS		105,092	0	105,092	0	0	0%
CCH-102	HART/ City DDC Land Division		256,201	0	256,201	0	173,182	68%
CCH-107	HART/ City Corporation Counsel (COR)		1,692,366	0	1,692,366	0	149,466	9%
CCH-108	Board of Water Supply (BWS)		928,325	0	928,325	0	928,325	100%
DB-120	West Oahu/Farrington Hwy Guideway	SOM	482,924,000	140,682,472	623,606,472	623,606,472	411,680,066	66%
DB-200	Maintenance & Storage Facility DB	SOM	195,258,000	79,576,593	274,834,593	207,865,327	212,582,909	77%
DB-320	Kamehameha Hwy Guideway DB	SOM	372,150,000	16,486,363	388,636,363	388,636,363	146,899,163	38%
DB-450	Airport Section Guideway and Sta. DB	SOV	100,000	0	100,000	0	0	0%
DBB-185	SPCD - West Side SG Construction	SOV	0	0	0	0	0	0%
DBB-271	Farrington Highway Station Grp Cntr.	SOV	78,999,000	0	78,999,000	0	0	0%
DBB-275	SPCD-Pearl Highlands Pkg. Str Cnstr.	SOV	0	0	0	0	0	0%
DBB-385	H2R2 Ramp	SOV	5,203,646	0	5,203,646	5,203,646	0	0%
DBB-450	SPCD-Airport Section Utility Reloc.		0	0	0	0	0	0%
DBB460	SPCD-Airport Guideway/Util Cnstr.		0	0	0	0	0	0%
DBB-470	SPCD-Airport Station Group Cnstr.	SOV	0	0	0	0	0	0%
DBB-505	Airport Section Utilities Cnstr.	SOV	28,413,974	0	28,413,974	28,413,974	4,595,193	16%
DBB-510	City Center Section Utilities Cnstr.	SOV	0	0	0	0	0	0%
DBB-520	SPCD-Airport-City Center Gdway Cntr.	SOV	0	0	0	0	0	0%
DBB-525	Airport Section Guideway 7 Pier Cnst	SOV	3,973,000	508,241	4,481,241	4,481,241	3,796,241	85%
DBB-550	SPCD-City Segment Util Relocations		0	0	0	0	0	0%
DBB-560	SPCD-City Center Guideway Cnstr.		0	0	0	0	0	0%
DBB-570	SPCD-Dillingham Stat Group Cnstr.		0	0	0	0	0	0%
DBB-572	SPCD-City Center Station Constr.		0	0	0	0	0	0%
DBB-580	SPCD-Dillingham/Kaka'ako S G Cntr.	SOV	0	0	0	0	0	0%
DBB-600	Park-and-Ride Lots Construction	SOV	0	0	0	0	0	0%
DBOM-920	Core Systems Design Build O/M	SOM	573,782,793	21,243,044	595,025,837	579,110,825	137,031,419	23%
FD-140	West Oahu Station Group FD	SOM	7,789,000	2,225,305	10,014,305	9,299,505	9,052,950	90%
FD-240	Farrington Highway Stations Group 2	SOM	9,300,696	4,897,349	14,198,045	12,997,376	12,546,293	88%
FD-245	SPCD-Pearl Highlands Pkg. Str. FD	SOM	0	0	0	0	0	0%
FD-340	Kamehameha Hwy Station Group FD	SOM	8,702,592	309,176	9,011,768	8,980,494	8,219,319	91%
FD-430	Airport Sect. Guideway/Utilities FD	SOM	38,840,960	4,293,512	43,134,472	43,134,472	40,587,999	94%

*** Current Committed = Original Contract + CCO/Amendment**

**** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)**

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by Contract - One Line Summary

			A	B	C=A+B	D	E	F
			COMMITTED			AFE	INCURRED	PERCENT
CPP No	Title		Original	Changes	Current *	AFE**	Incurred To Date	%
FD-440	Airport Station Group FD	SOM	10,177,365	1,224,840	11,402,205	10,372,862	9,801,978	86%
FD-530	City Center Guideway/Utilities FD	SOM	43,948,220	2,235,303	46,183,523	43,567,202	38,685,248	84%
FD-542	SPCD-City Center Stations (3), FD		0	0	0	0	0	0%
FD-550	Dillingham and Kaka'ako SG FD	SOM	18,321,918	652,529	18,974,447	15,399,142	11,407,057	60%
FD-600	Park-and-Ride Lots Final Design	SOM	0	0	0	0	0	0%
HRT-200	HART Labor		39,951,942	0	39,951,942	0	39,912,049	100%
HRT-201	HART ODC Contracts		15,759,154	0	15,759,154	0	15,901,218	101%
MI-900	Project Wide Fare Collection DFI	MI	0	0	0	0	0	0%
MI-930	Elevators & Escalators Install/Maint	SOM	50,982,714	0	50,982,714	5,442,108	4,221,508	8%
MM-180	SPCD-West Oahu/Farrington Stat CEI		0	0	0	0	0	0%
MM-280	SPCD-WOFH/KHSG CE&I(REPACKAGED)	CPFF	0	0	0	0	0	0%
MM-290	Construction Engrg & Inspection West	CPFF	54,232,480	0	54,232,480	16,650,000	10,730,387	20%
MM-385	SPCD-Pearl Highlands Garage Rmps CEI	CPFF	0	0	0	0	0	0%
MM480	SPCD-Airport Guideway/Utilities CEI		0	0	0	0	0	0%
MM-500	SPCD-By MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-525	SPCD-By MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-580	SPCD-City Center Guideway/Util CEI		0	0	0	0	0	0%
MM-590	SPCD-By MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-595	Construction Engrg & Inspection East	CPFF	63,083,417	0	63,083,417	15,257,000	10,391,370	16%
MM-600	SPCD-UHWO Pkg-Hoopili Stn Fnsh CEI	CPFF	0	0	0	0	0	0%
MM-900	Program Mgt Support Consit (PMSC-1)	CPFF	36,727,162	0	36,727,162	20,700,000	0	0%
MM-901	Program Mgt Support Consit (PMSC-2)	CPFF	33,376,897	7,616,377	40,993,274	34,297,167	32,390,284	79%
MM-905	MM-905 Gen Engrg Consit EIS/PE	CPFF	0	78,564,942	78,564,942	78,564,942	74,157,822	94%
MM-910	MM-910 Gen Engrg Consit FD-Construct	CPFF	150,000,000	0	150,000,000	150,000,000	149,447,024	100%
MM-913	MM-913 Gen Engrg Recompete	CPFF	46,143,277	0	46,143,277	13,078,208	17,953,530	39%
MM-915	HDOT Traffic Mgmt. Consult.	T&M	1,600,000	1,400,000	3,000,000	4,000,000	2,433,262	81%
MM-920	HDOT Coordination Consit WOFH	T&M	3,000,000	7,500,000	10,500,000	10,000,000	6,256,716	60%
MM-921	HDOT Coordination Consit KHG	T&M	10,000,000	-1,400,000	8,600,000	5,000,000	3,399,000	40%
MM-922	HDOT Coord. Consit. Airport	T&M	12,000,000	-5,600,000	6,400,000	3,000,000	2,095,733	33%
MM-923	HDOT Coordination Consit City Center	T&M	0	0	0	0	0	0%
MM-925	HDOT Labor - Highway Group	T&M	550,000	0	550,000	1,815,633	1,419,136	258%
MM-926	HDOT Labor - Airport Group	T&M	0	0	0	0	0	0%
MM-930	HDOT State SOA Manager & Consultant	T&M	1,272,400	583,142	1,855,542	843,167	721,808	39%

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m_cw_pmoc_monthly_contract_one_line - No. 19

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by Contract - One Line Summary

			A	B	C=A+B	D	E	F
			COMMITTED			AFE	INCURRED	PERCENT
CPP No	Title		Original	Changes	Current *	AFE**	Incurred To Date	%
MM-935	Real Estate Consultant	T&M/T&	3,000,000	3,327,665	6,327,665	4,817,665	4,352,973	69%
MM-937	Real Estate Consultant - Maps/Surv.	CPFF	2,998,000	0	2,998,000	1,500,000	508,128	17%
MM-940	Kako'o Consultant	T&M/T&	1,000,000	0	1,000,000	500,000	493,865	49%
MM-945	On-Call Contractor	T&M/T&	1,000,000	999,951	1,999,951	1,799,951	1,442,879	72%
MM-946	On-Call Hazmat Removal Contractor	T&M/T&	3,075,000	0	3,075,000	1,000,000	1,897,643	62%
MM-947	On-Call Contractor 2	T&M/T&	7,500,000	0	7,500,000	1,000,000	15,912	0%
MM-950	OCIP Consultant	FFF	1,250,000	0	1,250,000	833,750	868,438	69%
MM-951	Owner-Controlled Insurance Program	FFF	41,000,000	0	41,000,000	0	19,584,117	48%
MM-960	Archeological & Cultural Monitoring	T&M	459,517	0	459,517	459,517	458,231	100%
MM-962	Core Systems Support	CPFF	43,988,989	0	43,988,989	3,600,000	8,979,059	20%
MM-964	Safety and Security Consultant	FFF	4,699,573	112,751	4,812,324	2,612,751	1,863,131	39%
MM-975	LEED Commissioning Services for MSF	T&M	278,630	9,910	288,540	288,540	79,835	28%
OTHER	Project Wide		0	0	0	0	0	0%
PA-101	Programmatic Agreement Humanities	PA	0	0	0	0	0	0%
PA-102	Programmatic Agreement HPC	T&M/T&	400,000	0	400,000	200,000	137,683	34%
PA-103	Programmatic Agreement HPC Park Impr	PA	0	0	0	0	0	0%
ROW	Real Estate / Right-of-Way		89,885,511	0	89,885,511	121,992	80,066,400	89%
UTIL	Utilities by Utility Companies	T&M	91,615,619	8,137,656	99,753,275	79,011,597	25,878,825	26%
Total Project:			**2,707,045,872**	**375,587,120**	**3,082,632,992**	**2,437,462,887**	**1,581,120,002**	

* Current Committed = Original Contract + CCO/Amendment

** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)

m_cw_pmoc_monthly_contract_one_line - No. 19

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by SCC Summary

		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
SCC	Title	Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
1. Subtotal 10 - 80 SCC Costs										
10. Guideway & Track Elements		1,114,215,147	39,375,055	1,153,590,202	544,358,648	30,545,087	0	1,153,590,202	0	194,715,315
20. Stations,Stops,Terminals,Intermodal		421,804,740	(25,138,472)	396,666,268	129,981,714	0	0	396,666,268	0	4,221,508
30. Support Facilities;Yards,Shops, Admin		92,535,015	22,126,122	114,661,137	114,498,190	18,154,526	0	114,661,137	0	69,309,262
40. Sitework & Special Conditions		983,178,121	45,362,529	1,028,540,650	724,981,366	162,046,344	(265,756)	1,028,540,650	0	456,206,107
50. Systems		221,284,301	26,296,231	247,580,532	232,420,319	27,038,099	0	247,580,532	0	28,536,193
60. ROW, Land, Existing Improvements		197,397,947	528,621	197,926,568	93,215,331	329,820	5,000,000	197,926,568	0	84,705,843
70. Vehicles		186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	27,477,034
80. Professional Services		1,087,830,119	28,685,508	1,116,515,627	1,044,497,388	136,348,372	(16,816,353)	1,116,515,627	0	706,170,099
A C. Provisional Pay Requests		0	0	0	0	0	0	0	0	9,366,347
Subtotal:		4,305,074,410	141,881,095	4,446,955,505	3,075,427,477	375,908,472	(12,082,109)	4,446,955,505	0	1,580,707,708
2. NTP										
NTP Authorized For Expediture		0	0	0	0	2,057,557,126	0	0	0	0
Subtotal:		0	0	0	0	2,054,057,126	0	0	0	0
3. Contingency										
CNTR Allocated Contingency		541,689,343	(94,331,039)	447,358,304	7,205,515	3,997,289	228,011,393	447,358,304	0	412,294
PRJ Unallocated Contingency		101,871,170	(47,550,056)	54,321,114	0	0	0	54,321,114	0	0
Subtotal:		643,560,513	(141,881,095)	501,679,418	7,205,515	3,997,289	228,011,393	501,679,418	0	412,294
4. Finance Charges - Eligible										
OTH Finance Charges		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
FTA TOTAL PROJECT COSTS		**5,121,693,166**	**(0)**	**5,121,693,166**	**3,082,632,992**	**2,437,462,887**	**215,929,284**	**5,121,693,166**	**0**	**1,581,120,002**
4. Finance Charges -Ineligible Costs										
FINC Finance Charges		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
INELIGIBLE COSTS		**42,000,000**	**0**	**42,000,000**	**0**	**0**	**0**	**42,000,000**	**0**	**0**
Total Project:		**5,163,693,166**	**(0)**	**5,163,693,166**	**3,082,632,992**	**2,437,462,887**	**215,929,284**	**5,163,693,166**	**0**	**1,581,120,002**

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*** Changes Identified= Pending + Probable + Potential Changes

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Report M_CW_pmoc_monthly_Scc_summary - No. 22

Print Date: '10/15 13:58

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by SCC Details

		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
SCC	Title	Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
1. Subtotal 10 - 80 SCC Costs										
10. Guideway & Track Elements		1,114,215,147	39,375,055	1,153,590,202	544,358,648	30,545,087	0	1,153,590,202	0	194,715,315
10.02	Guideway: At-grade semi-exclusive	0	17,378	17,378	17,378	17,378	0	17,378	0	17,378
10.04	Guideway: Aerial Structure	1,022,380,671	36,381,516	1,058,762,187	459,038,433	20,865,982	0	1,058,762,187	0	147,678,078
10.08	Guideway: Retained Cut or Fill	7,492,944	(1,056,688)	6,436,256	6,436,256	0	0	6,436,256	0	0
10.09	Track: Direct Fixation	79,347,205	3,097,822	82,445,027	74,637,831	9,630,851	0	82,445,027	0	47,019,859
10.11	Track: Ballasted	3,293,724	(595,849)	2,697,875	2,697,875	0	0	2,697,875	0	0
10.12	Track:Special (Switches, turnouts)	1,700,603	1,530,876	3,231,479	1,530,876	30,876	0	3,231,479	0	0
20. Stations,Stops,Terminals,Intermodal		421,804,740	(25,138,472)	396,666,268	129,981,714	0	0	396,666,268	0	4,221,508
20.01	At-grade station, stop, shelter,..	6,111,332	0	6,111,332	0	0	0	6,111,332	0	0
20.02	Aerial Station, stop, shelter,mall	294,563,457	(21,400,000)	273,163,457	78,999,000	0	0	273,163,457	0	0
20.06	Automobile parking multi-story str	66,408,765	0	66,408,765	0	0	0	66,408,765	0	0
20.07	Elevators, Escalators	54,721,186	(3,738,472)	50,982,714	50,982,714	0	0	50,982,714	0	4,221,508
30. Support Facilities;Yards,Shops, Admin		92,535,015	22,126,122	114,661,137	114,498,190	18,154,526	0	114,661,137	0	69,309,262
30.02	Light Maintenance Facility	7,591,888	(5,095)	7,586,793	7,586,793	0	0	7,586,793	0	1,468,598
30.03	Heavy Maintenance Facility	38,099,138	4,950,814	43,049,952	43,077,806	5,220,776	0	43,049,952	0	21,548,161
30.04	Storage or Maintenance of Way Buil	7,797,460	964,571	8,762,031	8,571,230	835,320	0	8,762,031	0	4,018,537
30.05	Yard and Yard Track	39,046,529	16,215,832	55,262,361	55,262,361	12,098,430	0	55,262,361	0	42,273,966
40. Sitework & Special Conditions		983,178,121	45,362,529	1,028,540,650	724,981,366	162,046,344	(265,756)	1,028,540,650	0	456,206,107
40.01	Demolition, Clearing, Earthwork	29,980,158	(7,241,059)	22,739,099	8,589,446	692,302	0	22,739,099	0	1,423,595
40.02	Site Utilities, Utility Relocation	299,449,756	9,384,408	308,834,164	202,214,008	14,748,176	119,100	308,834,164	0	81,722,212
40.03	Haz. mat'l, contam'd soil removal	9,199,237	(5,300,634)	3,898,603	3,212,085	137,085	(391,304)	3,898,603	0	2,034,728
40.04	Environmental Mitigation	26,979,122	4,976,801	31,955,923	16,543,497	2,689	6,448	31,955,923	0	9,390,937
40.05	Site structures, retaining walls,	7,998,960	6,337,723	14,336,683	14,178,157	71,663	0	14,336,683	0	2,507,754
40.06	Pedestrian/bike access/landscaping	41,073,897	741,177	41,815,074	4,991,868	(4,566)	0	41,815,074	0	50,000
40.07	Auto, bus, van accessways	181,979,367	(16,000,498)	165,978,869	36,270,071	1,501,555	0	165,978,869	0	4,046,510
40.08	Temporary Facilities/Indirect Cost	386,517,624	52,464,611	438,982,235	438,982,235	144,897,440	0	438,982,235	0	355,030,371
50. Systems		221,284,301	26,296,231	247,580,532	232,420,319	27,038,099	0	247,580,532	0	28,536,193
50.01	Train control and signals	81,982,556	24,381,140	106,363,696	106,363,696	23,961,050	0	106,363,696	0	2,250,972
50.02	Traffic signals and crossing prot.	10,458,226	(206,890)	10,251,336	0	0	0	10,251,336	0	0
50.03	Traction power supply: substation	29,500,926	1,379,880	30,880,806	30,880,806	(87,485)	0	30,880,806	0	782,221
50.04	Traction power distribution: cate	32,878,150	5,059,838	37,937,988	33,029,111	7,941,115	0	37,937,988	0	16,403,205

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Report M_CW_pmoc_monthly_Scc_details - No. 23

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Print Date: 7/10/15 14:01

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by SCC Details

		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
SCC	Title	Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
1. Subtotal 10 - 80 SCC Costs										
50. Systems		221,284,301	26,296,231	247,580,532	232,420,319	27,038,099	0	247,580,532	0	28,536,193
50.05	Communications	53,691,339	6,133,477	59,824,816	59,824,816	5,573,419	0	59,824,816	0	10,231,696
50.06	Fare collection system and equipme	9,159,277	(10,291,178)	(1,131,901)	(1,131,901)	(10,350,000)	0	(1,131,901)	0	(1,131,901)
50.07	Central Control	3,613,827	(160,036)	3,453,791	3,453,791	0	0	3,453,791	0	0
60. ROW, Land, Existing Improvements		197,397,947	528,621	197,926,568	93,215,331	329,820	5,000,000	197,926,568	0	84,705,843
60.01	Purchase or lease of real estate	179,360,664	250,821	179,611,485	86,269,854	52,020	5,000,000	179,611,485	0	75,808,485
60.02	Relocation of existing households	18,037,283	277,800	18,315,083	6,945,477	277,800	0	18,315,083	0	8,897,358
70. Vehicles		186,829,020	4,645,501	191,474,521	191,474,521	1,446,224	0	191,474,521	0	27,477,034
70.01	Light Rail	166,721,386	5,847,191	172,568,577	172,568,577	1,446,224	0	172,568,577	0	20,747,548
70.06	Non-revenue vehicles	14,346,923	(1,320,375)	13,026,548	13,026,548	0	0	13,026,548	0	6,729,486
70.07	Spare parts	5,760,711	118,685	5,879,396	5,879,396	0	0	5,879,396	0	0
80. Professional Services		1,087,830,119	28,685,508	1,116,515,627	1,044,497,388	136,348,372	(16,816,353)	1,116,515,627	0	706,170,099
80.01	Preliminary Engineering	94,055,262	24,644,185	118,699,447	109,567,127	20,905,682	0	118,699,447	0	102,650,269
80.02	Final Design	228,321,632	(4,508,187)	223,813,445	207,105,630	32,191,204	1,223,357	223,813,445	0	158,937,404
80.03	Project Management Design & Cons	363,849,768	(28,383,713)	335,466,055	373,996,426	73,563,102	(17,323,901)	335,466,055	0	289,941,869
80.04	Constr. Admin. & Management	199,656,728	(35,961,200)	163,695,529	158,431,068	4,046,436	60,000	163,695,529	0	69,171,670
80.05	Professional Liability & other Ins	46,549,724	28,781,938	75,331,662	43,174,657	700,500	0	75,331,662	0	21,411,854
80.06	Legal; Permits,Review Fees ect..	67,641,005	(2,795,868)	64,845,137	35,564,005	2,516,420	0	64,845,137	0	18,971,673
80.07	Surveys, Testing, Investigation, I	21,759,336	47,139,037	68,898,373	67,789,497	1,463,121	0	68,898,373	0	24,239,818
80.08	Start up	65,996,664	(230,685)	65,765,980	48,868,977	961,909	(775,809)	65,765,980	0	20,845,543
A.C. Provisional Pay Requests		0	0	0	0	0	0	0	0	9,366,347
ACR	Provisional Request For Payment	0	0	0	0	0	0	0	0	9,366,347
Subtotal:		4,305,074,410	141,881,095	4,446,955,505	3,075,427,477	375,908,472	(12,082,109)	4,446,955,505	0	1,580,707,708
2. NTP										
NTP Authorized For Expediture		0	0	0	0	2,057,557,126	0	0	0	0
NTP	Notice To Proceed	0	0	0	0	2,057,557,126	0	0	0	0
Subtotal:		0	0	0	0	2,057,557,126	0	0	0	0

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Report M_CW_pmoc_monthly_Scc_details - No. 23

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Print Date: 7/10/15 14:01

HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: June 2015

Project Monthly Cost Report by SCC Details

		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
SCC	Title	Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
3. Contingency										
CNTR	Allocated Contingency	541,689,343	(94,331,039)	447,358,304	7,205,515	3,997,289	228,011,393	447,358,304	0	412,294
90.02	Allocated Contract Contingency	540,101,329	(96,611,519)	443,489,811	3,997,289	3,997,289	222,329,991	443,489,811	0	412,294
90.03	Allowances	1,588,014	2,280,479	3,868,493	3,208,226	0	5,681,402	3,868,493	(0)	0
90.07	Known Change Contingency	0	0	0	0	0	0	0	0	0
PRJ	Unallocated Contingency	101,871,170	(47,550,056)	54,321,114	0	0	0	54,321,114	0	0
90.01	Unallocated Project Contingency	101,871,170	(47,550,056)	54,321,114	0	0	0	54,321,114	0	0
Subtotal:		643,560,513	(141,881,095)	501,679,418	7,205,515	3,997,289	228,011,393	501,679,418	0	412,294
4. Finance Charges - Eligible										
OTH	Finance Charges	173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
100.1	Finance Charges:Project-Eligible	173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
FTA TOTAL PROJECT COSTS		**5,121,693,166**	**(0)**	**5,121,693,166**	**3,082,632,992**	**2,437,462,887**	**215,929,284**	**5,121,693,166**	**0**	**1,581,120,002**
4. Finance Charges -Ineligible Costs										
FINC	Finance Charges	42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
100.2	FTA Non-Eligible Costs	42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
INELIGIBLE COSTS		**42,000,000**	**0**	**42,000,000**	**0**	**0**	**0**	**42,000,000**	**0**	**0**
Total Project:		**5,163,693,166**	**(0)**	**5,163,693,166**	**3,082,632,992**	**2,437,462,887**	**215,929,284**	**5,163,693,166**	**0**	**1,581,120,002**

* Current Committed = Original Contract + CCO/Amendment

** AFE = Authorized For Expenditure (Latest NTP Amounts or equal to current commitment Plus Executed Change Orders/Amendments)

*** Changes Identified= Pending + Probable + Potential Changes

**** Est. At Completion = Original Contract + CCO/Amendments + Changes Identified

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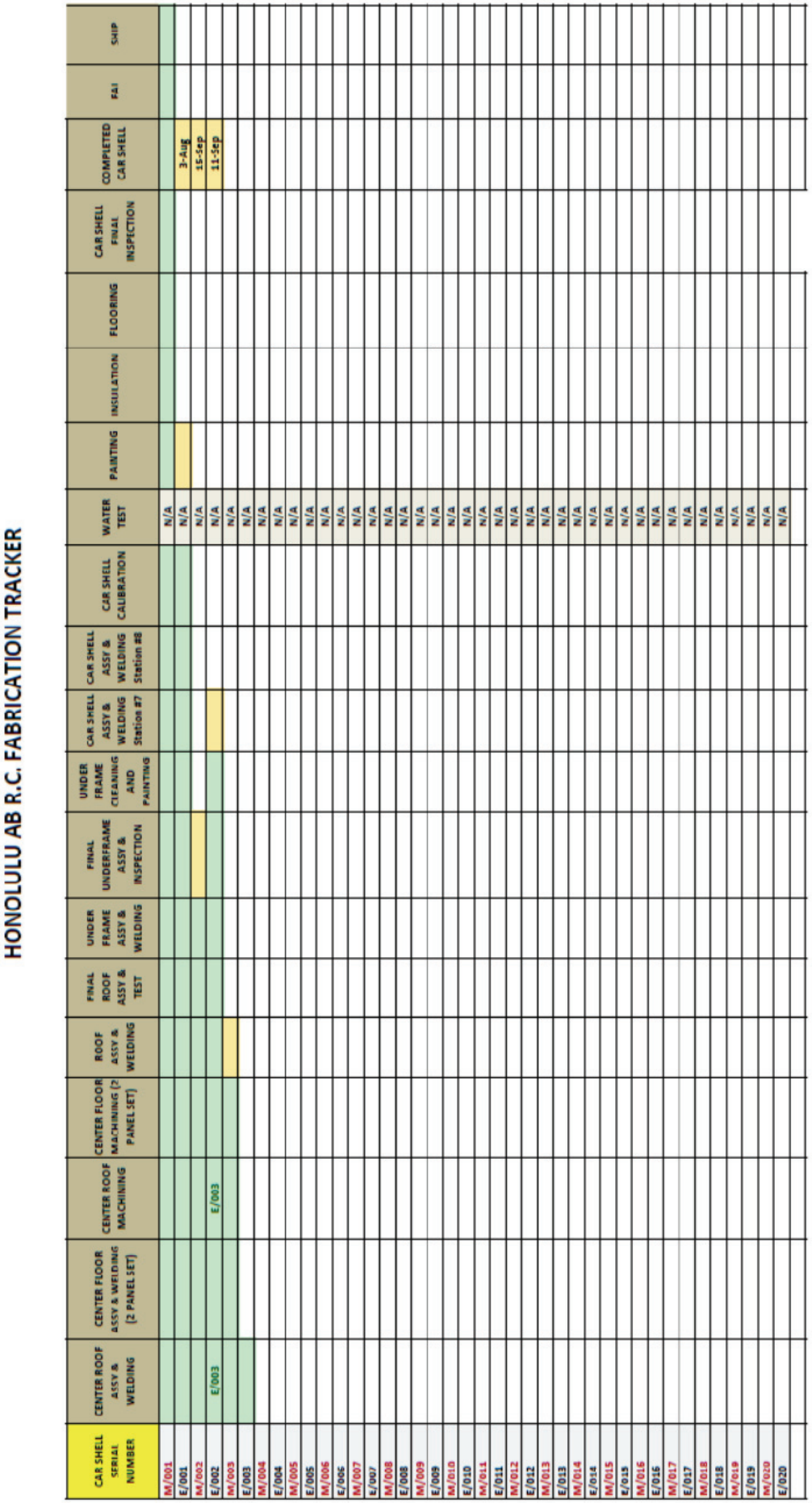
Appendix D. Procurement and Contract Status

Awarded Contracts

Contract Code	Contract Name	Contractor Name	Advertise Date	Contract Date	Issue NTP	Projected Substantial Completion Date
DB-120	West O'ahu/Farrington Highway Guideway (WOFH)	Kiewit Infrastructure West Company (KIWC)	Apr 03 '09	Nov 11 '09	Dec 01 '09	Jul 04 '16
DB-200	Maintenance and Storage Facility (MSF)	Kiewit / Kobayashi Joint Venture (KKJV)	Jul 24 '09	June 30 '11	Jul 25 '11	Apr 15 '16
DB-320	Kamehameha Guideway (KHG)	Kiewit Infrastructure West Company (KIWC)	Mar 19 '10	June 30 '11	Jul 12 '11	Sep 16 '16
DBOM-920	Core Systems Contract	Ansaldo Honolulu JV	Aug 17 '09	Nov 28 '11	Jan 13 '12	Mar 31 '19
MI-930	Elevators and Escalators	Schindler Elevator Corporation	Dec 18 '12	Jul 31 '13	Aug 02 '13	Jul 05 '18
FD-140	West O'ahu Station Group Final Design and Support	URS Corporation	Jun 14 '10	Jun 14 '12	Jun 15 '12	Jun 30 '16
FD-240	Farrington Highway Station Group Final Design and Support -2	URS Corporation	Jun 10 '13	Sep 27 '13	Sep 30 '13	Nov 14 '16
FD-340	Kamehameha Highway Station Group Final Design (includes H2/R2 Ramp) and	Anil Verma Associates, Inc.	Jun 28 '11	Nov 16 '12	Nov 26 '12	Oct 31 '16
FD-430	Airport Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.	Jan 26 '11	Dec 22 '11	Jan 05 '12	Jun 30 '17
FD-530	City Center Section Guideway and Utilities Final Design and Support	AECOM Technical Services, Inc.	Dec 16 '11	Jul 30 '12	Jul 31 '12	Apr 30 '18
FD-440	Airport Station Group Final Design and Support	AECOM Technical Services, Inc.	Mar 30 '12	Nov 7 '12	Nov 14 '12	Jul 15 '17
FD-550	Dillingham and Kaka'ako Station Groups "East Side Stations" Final Design and	Perkins+Will	Nov 16 '12	Aug 15 '13	Jul 31 '13	Jul 30 '18
MM-290	Construction Engineering & Inspection West Side Sections	PGH Wong Engineering, Inc.	Jul 26 '13	Jan 9 '14	Jan 09 '14	Mar 01 '19
MM-595	Construction Engineering & Inspection East Side Sections	URS Corporation	Jul 26 '13	Jan 07 '14	Jan 09 '14	Mar 01 '19
MM-901	Program Management Support Consultant - 2 (PMSC-2)	InfraConsult LLC	Aug 03 '11	Feb 28 '12	Mar 08 '12	Mar 07 '16
MM-910	General Engineering Consultant II (GEC-2) (Final Design and Construction)	Parsons Brinckerhoff	Sep 03 '09	Jun 30 '11	Aug 02 '11	Dec 31 '14
MM-913	General Engineering Consultant III (GEC-3)	CH2M HILL	Jul 26 '13	Dec 5 '13	Dec 05 '13	Apr 5 '19
MM-935	Real Estate Consultant	Paragon Partners, Ltd.	Apr 01 '11	Mar 14 '12	Mar 14 '12	Mar 13 '17
MM-937	Real Estate Mapping & Surveying	R.M. Towill Corporation	Nov 15 '13	May 22 '14	May 23 '14	Dec 30 '17
MM-940	Kāko'o Consultant	Pacific Legacy, Inc.	May 20 '11	Mar 29 '12	Mar 30 '12	Feb 14 '17
MM-950	Owner-Controlled Insurance Program (OCIP) Consultant	Marsh USA, Inc.	Jan 31 '12	May 10 '12	Jun 05 '12	May 09 '17
MM-951	Owner-Controlled Insurance Program (OCIP) Brokerage Services	Aon Risk Services, Inc., of Hawaii	Jun 04 '13	Apr 9 '14	Apr 08 '14	Mar 30 '19
MM-960	Archaeological & Cultural Monitoring	Cultural Surveys Hawai'i	Sep 10 '13	Jan 15 '14	Jan 15 '14	May 30 '18
MM-962	CORE Systems Support	Lea+Elliott, Inc.	Sep 13 '13	Feb 10 '14	Feb 11 '14	Mar 01 '19
MM-964	Safety / Security Support	Lawson & Associates, Inc.	Oct 23 '13	Apr 23 '14	May 01 '14	Dec 14 '17
MM-975	LEED Commissioning Services for the Maintenance and Storage Facility (MSF)	Enovity, Inc.		Oct 6 '10	Oct 07 '10	Jan 14 '16
PA-102	Historic Architecture Design Services	Fung Associates, Inc.	Mar 15 '13	Aug 1 '13	Aug 01 '13	May 01 '16
MM-915	HDOT Traffic Management Coordination Consultant	ICX Transportation Group, Inc.	Aug 15 '11	Jun 5 '12	Jun 12 '12	Jun 11 '17
MM-920	HDOT Design Coordination Consultant - West O'ahu/Farrington Highway	AECOM Technical Services, Inc.		Jun 7 '11	Jun 08 '11	Jun 07 '16
MM-921	HDOT Design Coordination Consultant - Kamehameha Highway Guideway Section	AECOM Technical Services, Inc.		Jun 28 '12	Jun 29 '12	Jun 28 '17
MM-922	HDOT Design Coordination Consultant - Airport and City Center Guideway	SSFM International, Inc.		Jun 8 '12	Jun 12 '12	Jun 11 '17
MM-925	HDOT Labor Master Agreement WOFH	HDOT		Oct 27 '10	Oct 27 '10	Oct 27 '19
MM-945	On-Call Construction Contractor	Royal Contracting Co. Ltd.	Jun 02 '14	Aug 6 '14	Aug 14 '14	Mar 03 '19
MM-946	On-Call Hazardous Materials (HazMat) Removal Contractor	CH2M HILL		Aug 23 '12	Sep 07 '12	Feb 15 '17
MM-947	On-Call Construction Contractor II	Royal Contracting Co. Ltd.	Mar 17 '15	May 21 '15	May 21 '15	May 21 '20
DBB-385	Ramp H2R2	Royal Contracting Co. Ltd.	Jan 30 '15	May 18 '15	May 18 '15	Jun 17 '16
DBB-505	Airport Section Utilities Construction	Nan, Inc.	Dec 17 '13	Jun 30 '14	Oct 6 '14	Dec 22 '15
DBB-525	Airport Section Guideway Seven (7) Pier Construction Contract	HDCC / CJA JV	Jul 09 '14	Sep 18 '14	Sep 18 '14	Apr 22 '15
DBB-271	Farrington Hwy Stations Group Construction	Hawaiian Dredging Construction Company, Inc.	Dec 19 '14	Jun 22 '15	TBD	NTP+ 29 months
DBB-171	West O'ahu Stations Group Construction	Nan, Inc.	Apr 13 '15	Jul 20 '15	TBD	NTP+ 29 months

Remaining Contracts						
Contract Code	Contract Name	Advertise Date	Bids Due/Part 1 Proposals Due	RFP Part 2 Proposals Due	Issue NTP	Projected Substantial Completion Date
AP00	Art-in-Transit	May 9 '13	-	-	TBD	TBD
MM-970	Fare Collection System Technical Support Consultant	Mar 24 '15	Apr 27 '15 Jun 10 '15	-	TBD	TBD
MM-596	Construction Engineering and Inspection (CE&I) II Contract	Mar 25 '15	May 20 '15	-	TBD	TBD
DB-450	Airport Guideway and Stations	Apr 07 '15	Aug 11 '15	Feb 23 '16	Apr 05' 16	TBD
	Section 106 Programmatic Agreement Project Manager Kāko'o II	Jun 26 '15	Jul 31 '15	-	Sep 01 '15	TBD
DB-550	City Center Guideway and Stations	Aug 04 '15	Oct 01 '15	Apr 15 '16	Jun 01 '16	TBD
DBB-371	Kamehameha Hwy Stations Group Construction	Aug 18 '15	Nov 03 '15	-	Dec 01 '15	Aug 31 '18
DBB-510	Dillingham Utilities and Road Widening	TBD	TBD	-	TBD	TBD
DBB-600	East Kapolei and UH/West O'ahu Park and Ride Lots	Nov 14 '16	Feb 15 '17	-	Apr 03 '17	Mar 01 '19
MI-900	Fare Systems Contract	TBD	TBD	-	TBD	TBD

Appendix E. Vehicle Carshell Progress Tracker



Appendix F. DBE Participation

HART has established a Disadvantaged Business Enterprise (DBE) program in accordance with the regulations of the U.S. Department of Transportation (USDOT), Title 49, Code of Federal Regulations, Part 26 (49 CFR Part 26). To be certified as a DBE, a firm must be small business owned and controlled by socially and economically disadvantaged individuals.

FTA funds totaling approximately $1.764 billion in year of expenditure dollars ($1.550 billion New Starts funds plus $0.214 billion Section 5307/ARRA funds) will be expended for Project related goods and services. A project goal of 13% or approximately $229 million dollars has been established for awards to DBEs through Federal Fiscal Year 2018.

It is the policy of HART to ensure that DBEs as defined in 49 CFR Part 26 have an equal opportunity to receive and participate in USDOT-assisted contracts.

DBE Participation (9/24/07 to 7/31/15)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
David's Fencing	238990	APA	M	CT-HRT-10H0137 DB-120	$6,800	
				CT-DTS-1100195 DB-320	$129,816	
				CT-HRT-1000449 DB-200	$52,821	$189,437
Glad's Landscaping	561730	APA	M	CT-HRT-10H0137 DB-120	$303,790	$303,790
Don's Makiki	484110	APA	M	CT-HRT-10H0137 DB-120	$537,031	
				CT-HRT-10H0449 DB-200	$41,232	
				CT-DTS-1100195 DB-320	$60,714	$638,977
Pacific Preferred Contractors Corp.	237310	APA	M	CT-HRT-10H0137 DB-120	$59,881	$59,881
PAC Electric	238210	APA	F	CT-HRT-10H0137 DB-120	$4,387,962	$4,387,962
PMJ Builders	238310	APA	M	CT-HRT-10H0137 DB-120	$43,866	
				CT-DTS-1100195 DB-320	$107,100	$150,966
Standard Sheetmetal & Mechanical	236220	APA	M	CT-HRT-10H0449 DB-200	$6,105	$6,105
LP&D Hawaii	541320	APA	M	SC-DTS-1100013 FD-240	$219,911	$219,911
Ace Land Surveying	541370	NA	M	SC-DTS-1100013 FD-240	$38,700	$38,700
Integrated Security Tech.	561621	O	F	CT-HRT-1200106 DBOM-920	$105,180	$105,180
LKG-CMC	541618	O	F	SC-HRT-11H0131 MM-905	$2,600,462	
				SC-DTS-0700001 **** MM-910	$2,783,277	
				SC-HRT-1400051 MM-595	$180,181	
				SC-HRT-1400049 MM-962	$222,400	$5,786,320
Lawson & Associates	541690	O	F	SC-HRT-11H0131 MM-905	$740,962	
				SC-DTS-0700001 **** MM-910	$150,141	
				SC-HRT-1400061 MM-964	$722,972	$1,614,075
Gary K. Omori	541618	APA	M	SC-HRT-11H0131 MM-905	$388,609	
				SC-DTS-0700001 **** MM-910	$392,920	$781,529

DBE Participation (9/24/07 to 7/31/15)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
Pat Lee & Assoc.	541618	APA	M	SC-HRT-11H0131 MM-905	$402,791	
				SC-DTS-0700001 **** MM-910	$374,110	$776,901
212 Harakawa	541430	APA	F	SC-HRT-11H0131 MM-905	$358,141	
				SC-DTS-0700001 **** MM-910	$354,758	$712,899
JAD & Associates	541330	APA	M	SC-DTS-0700001 **** MM-910	$508,355	$508,355
Pacific Architects	541310	APA	M	SC-DTS-0700001 **** MM-910	$39,273	$39,273
Nagame Okawa*	541310	APA	M	SC-DTS-0700001 MM-910	$67,014	$67,014
Consulting Structural Hawaii	541330	APA	M	SC-DTS-0700001 **** MM-910	$298,557	$298,557
Bright Light Marketing Group	541613	APA	F	SC-HRT-1200038 FD-430	$162,813	
				SC-HRT-1200149 FD-530	$191,227	
				SC-HRT-1300022 FD-440	$134,912	$488,952
Ki Concepts	541320	APA	M	SC-HRT-1200077 MM-922/923	$26,550	$26,550
Miyabara Associates	541320	APA	M	SC-HRT-1300022 FD-440	$99,850	$99,850
Anil Verma Associates, Inc.**	541350	HA	M	SC-HRT-1200111 FD-340	$3,303,778	$3,303,778
AMR Estimating Services ***	541330	HA	M	SC-HRT-11H0131 MM-905	$135,281	
				SC-HRT-1400027 MM-913	$515,149	$650,430
The Nakoa Companies	541620	NA	M	CT-HRT-1200106 DBOM-920	$3,843	$3,843
Hawaiya Technologies	238210	APA	F	CT-HRT-10H0449 DB-200	$27,514	
				CT-HRT-1200106 DBOM-920	$20,142	$47,656
Element Environmental	541620	APA	M	SC-HRT-1400050 MM-290	$612,782	$612,782
PSC Consultants	541330	APA	M	SC-HRT-1400050 MM-290	$99,404	$99,404
Bow Construction Management	541330	APA	M	SC-HRT-1400050 MM-290	$118,922	$118,922
FIC, LLC	541611	APA	M	SC-HRT-1400051 MM-595	$862,443	$862,443
The Solis Group	541620	O	F	SC-HRT-1400027 MM-913	$623,681	$623,681
Island Hauling	484110	APA	M	CT-HRT-1000449 DB-200	$18,147	$18,147
ADS System Safety Consulting *****	541620	BA	M	SC-HRT-1400061 MM-964	$974,216	$974,216
Dovetail Consulting	541330	BA	F	MOU-11-SO-1 MM-930	$709,497	$709,497
Total						**$25,325,983**

** Nagame Okawa's countable participation is limited to the period from 1/2/09 to 2/16/10. The company graduated from the DBE program on 2/16/10.*

*** Anil Verma Associates, Inc. is a prime contractor and was certified as a DBE effective 6/26/13.*

**** AMR Estimating Services, Inc. was certified as a DBE effective 10/25/13.*

***** DBE participation from 9/24/07 to 9/17/13.*

****** ADS System Safety Consulting was certified as a DBE effective 8/7/14.*

Race Categories

APA	Persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands, (Republic of Palau), the Commonwealth of the Northern Marianas Islands, Macao, Fiji, Tonga, Kiribati, Juvalu, Nauru, Federated States of Micronesia or Hong Kong
BA	Persons having origins in any of the black racial groups of Africa
HA	Persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin regardless of race
NA	Persons who are American Indians, Eskimos, Aleuts, or Native Hawaiians
SAA	Persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka
O	Any other group whose members are designated as socially and economically disadvantaged by the SBA

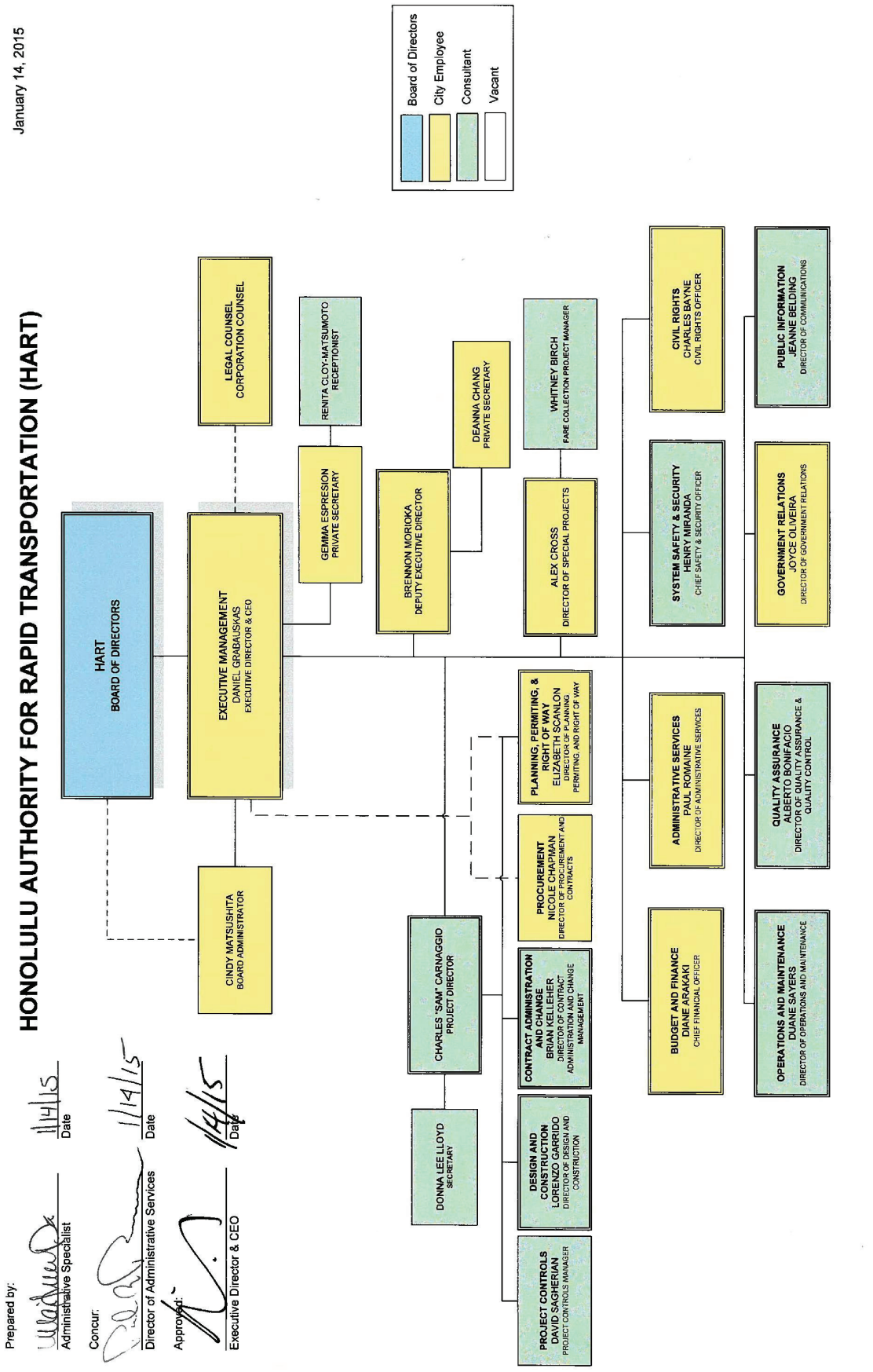
Appendix G. Risk

Risk by Contract Package				
Contract Packages	June 2015 # of Risks	July 2015 Update		
		Total # of Risks	New Risks	Deleted Risks
Project Wide	4	4	0	0
WOFH Guideway	21	21	0	0
Pearl Highlands	4	4	0	0
Maintenance and Storage Facility	5	5	0	0
Kamehameha Highway Guideway	18	18	0	0
Core Systems Contract	8	8	0	0
Elevator/Escalator	3	3	0	0
Airport Utilities	2	1	0	1
Farrington Highway Stations	4	4	0	0
H2R2 Ramp	1	1	0	0
West Oahu Stations	5	4	0	1
Kam. Highway Stations	8	8	0	0
Airport Guideway	18	17	0	1
City Center Guideway	29	26	0	3
Airport Section Stations	16	16	0	0
City Center Section Stations	14	14	0	0
Total	**160**	**154**	**0**	**6**

Notes of Significance:
Design contracts for Airport and City Center Sections are still underway for procurement and contract package preparation. When this process is complete, the guideway and stations for each group will be combined; it will be tracked separately in the mean time.

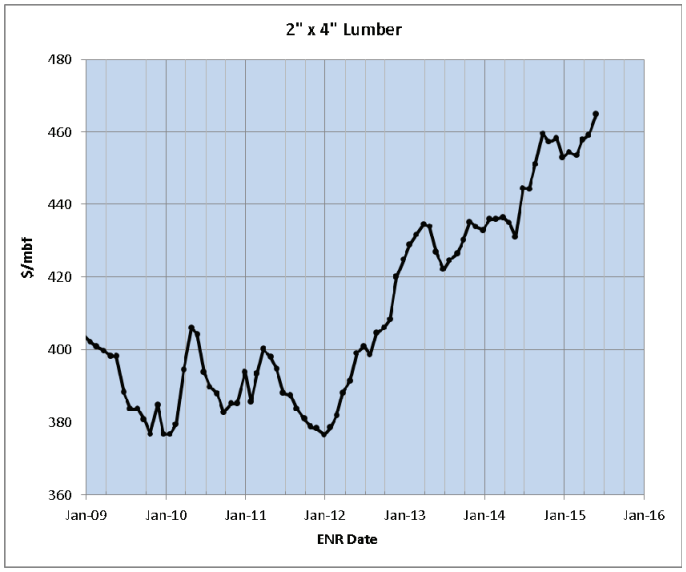
Comparison of Risk Ratings								
Contract Package/Section	June 2015 # of Risks				July 2015 Update # of Risks			
	Total	High	Medium	Low	Total	High	Medium	Low
Project Wide	4	1	2	1	4	1	2	1
WOFH Guideway	21	4	12	5	21	4	12	5
Pearl Highlands Garage	4	0	4	0	4	0	4	0
Maintenance and Storage Facility	5	1	1	3	5	1	1	3
Kamehameha Highway Guideway	18	1	10	7	18	1	10	7
Core Systems Contract	8	0	5	3	8	0	5	3
Elevator/Escalator	3	0	2	1	3	0	2	1
Airport Utilities	2	1	1	0	1	0	1	0
Farrington Highway Stations	4	0	4	0	4	0	4	0
H2R2 Ramp	1	0	1	0	1	0	1	0
West Oahu Stations	5	0	5	0	4	0	4	0
Kam. Highway Stations	8	0	3	5	8	0	3	5
Airport Guideway	18	3	13	2	17	4	12	1
City Center Guideway	29	12	14	3	26	12	12	2
Airport Stations	16	3	12	1	16	3	12	1
City Center Stations	14	1	11	2	14	1	11	2
Total	**160**	**27**	**100**	**33**	**154**	**27**	**96**	**31**

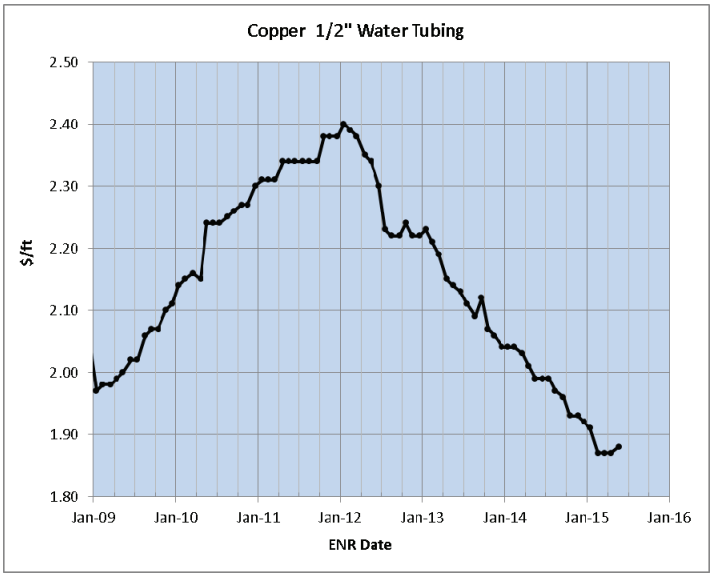
Appendix H. Project Organization Chart

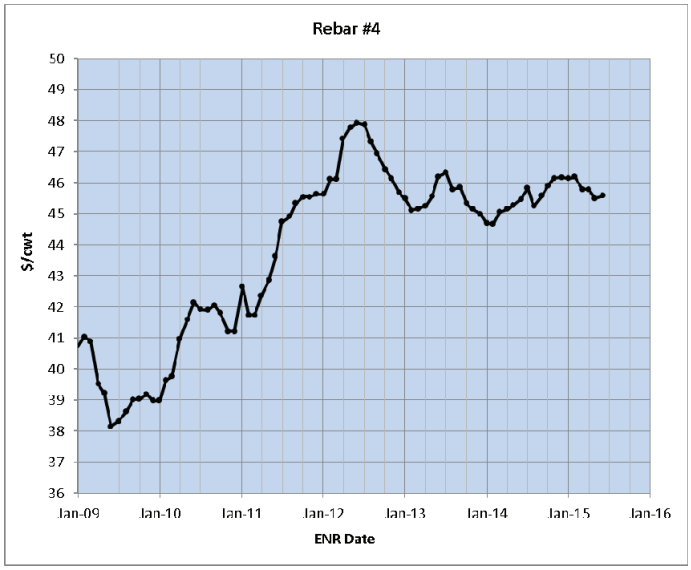


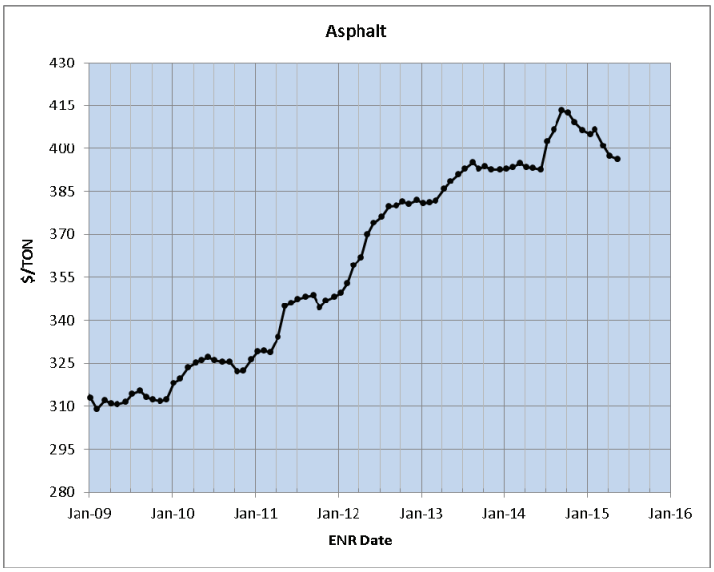
Appendix I. Indices on Key Commodities

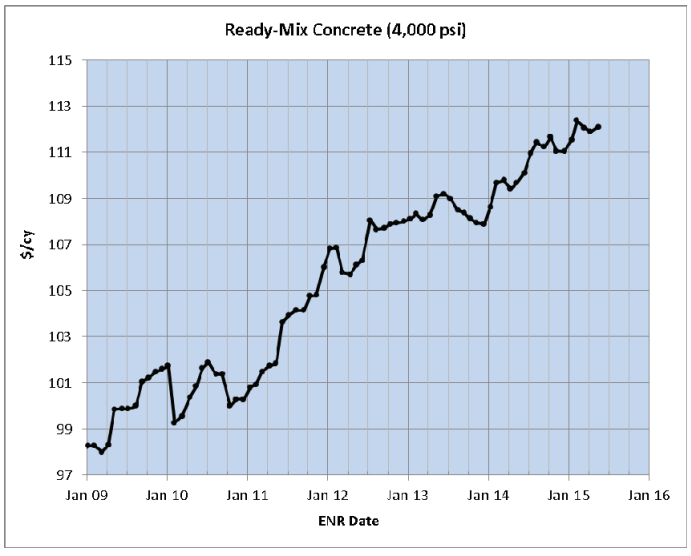
The following charts represent the cost trends on some of the key materials used in the program.

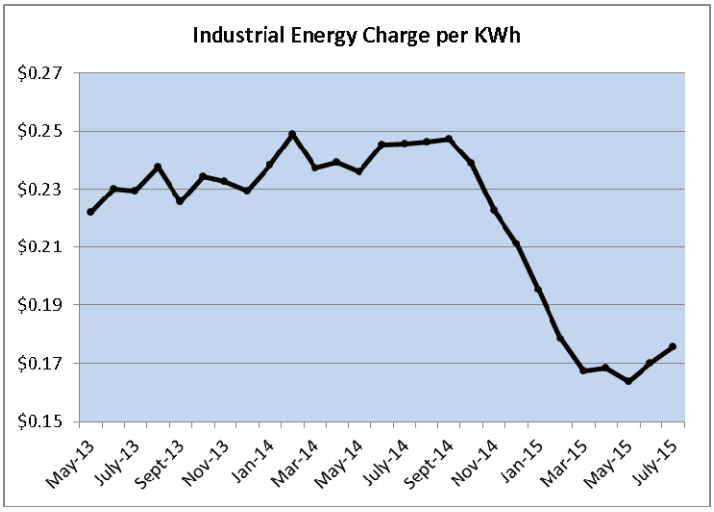












Source: HECO: Effective Rate Summary for DS Rate

Appendix J. Project Photos

Guideway construction in West O'ahu.

Equipment storage site.

Balanced Cantilever construction near the H-1/H-2 Freeway merge.

Construction near the H-1/H-2 Freeways.

Construction along Kamehameha Highway.

Future Aloha Stadium Station.

Operations and Servicing Building (OSB).

Wheel Truing Building and OSB.

Maintenance of Way Building.

Casting Yard.