HONOLULU RAIL TRANSIT PROJECT

February 2015
MONTHLY PROGRESS 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 Waianae.
Upper right: West O'ahu Farrington Highway Guideway along Farrington Highway looking Diamond Head.
Lower right: Rail Operations Center (aka Maintenance and Storage Facility) site.

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LIST OF ACRONYMS

AB	AnsaldoBreda
AFE	Authorized for Expenditure
AHJV	Ansaldo Honolulu Joint Venture
AIS	Archaeological Inventory Survey
APTA	American Public Transportation Association
ARRA	American Recovery and Reinvestment Act
ASG	Airport Station Group
ATC	Automated Train Control
ATO	Automated Train Operation
BA	Buy America
BAC	Buy America Compliance
BACM	Buy America Compliance Matrix
BFS	Budget and Fiscal Services
BMP	Best Management Practice
BUE	Bottom-Up Estimate
CAR	Corrective Actions
CCO	Contract Change Order
CE&I	Construction Engineering and Inspection
CEL	Certifiable Elements List
CIL	Certifiable Items List
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
CSL	Cross Hole Sonic Logging
CSOC	Core Systems Oversight Consultant
CTS	Communications Transmission System
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
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 Kakaʻako Station Group
DLIR	Hawaiʻi 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
ECP	Environmental Compliance Plan
E/E	Elevator/Escalator
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
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
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	Hawaiʻi Community Development Authority
HCSD	Hawaiʻi Capital Special District
HDOE	Hawaiʻi Department of Education
HDOH	Hawaiʻi Department of Health
HDOT	Hawaiʻi Department of Transportation
HDPE	High-density polyethylene
HECO	Hawaiian Electric Company
HFD	Honolulu Fire Department
HHF	Historic Hawaiʻi Foundation
HHPRB	Hawaiʻi Historic Places Review Board
HP	Historic Preservation
HPC	Historic Preservation Committee
HPCA	Historic Preservation Certification Application
HPD	Honolulu Police Department
HPF	Historic Preservation Fund
HRHP	Hawaiʻi Register of Historic Places
HRTP	Honolulu Rail Transit Project
HTI	Hawaiian Telcom
IAMR	Interstate Access Modification Report
ICCS	Interface Communications Control System
ICD	Interface Control Documents
ICM	Interface Control Manual
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	Kakaʻako 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 Pollution 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	Oʻahu Island Burial Council
OSB	Operations and Servicing Building
OSHA	Occupational Safety and Health Administration
OTS	Oʻahu 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
PICM	Project Interface Control Manual
PIG	Permitted Interaction Group
PIM	Project Interface Manager
PLA	Project Labor Agreement
PM	Project Managers
PMC	Project Management Consultant
PMOC	Project Management Oversight Contractor
PMSC	Program Management Support Consultant
PPE	Personal Protective Equipment
PSG	Platform Screen Gate
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
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
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 Hawaiʻi
UHWO	University of Hawaiʻi West Oʻahu
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 Oʻahu/Farrington Highway
WOSG	West Oʻahu Station Group
WSS	West Side Stations
WSSG	West Side Station Group
WTB	Wheel Truing Building
WYL	West Yard Lead
YOE	Year of Expenditure

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PROJECT MAP

***HIGHLIGHT OF THE MONTH: KAPALAMA STATION**

Serving the Kalihi, Kapalama, Honolulu Community College and Outlying Residential Areas

Station Features:

- ADA Pedestrian Access
- Bicycle Parking
- Elevators and Stairs
- TheBus – Local service along Dillingham Blvd
- TheHandi-Van Pick-up/Drop-off
- Platform Type: Side
- Planned # of Entrances: 2

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

1 EXECUTIVE SUMMARY

KEY ACTIVITIES THIS MONTH

Project Overview

In February, the project continued to successfully move forward with the following milestones being reached: construction of two miles of guideway, the completion of nearly 90 spans, and more than 140 columns. Construction at the 43-acre Maintenance and Storage Facility is more than 60 percent complete, and production of the rail system's fleet of 80 vehicles is underway and on schedule.

Two Miles of Guideway Completed

The Honolulu rail transit project now has more than two miles of guideway extending across the 'Ewa plain. The two miles of completed guideway is the equivalent of more than 80 spans.

Construction crews have been busy connecting the concrete segments on top of the columns that have been built from east Kapolei and are heading into Waipahu. Workers are also fastening the steel rail onto the elevated guideway.

Other rail-related work underway includes construction of the guideway over the H-1 freeway near the H-1/H-2 merge, and the rail operations center in Waipahu. With safety in mind, traffic notices and updates are issued weekly to the media and regular briefings with traffic reporters help HART keep motorists and the public informed about construction-related traffic changes. HART also uses social media and weekly eBlasts to get the word out regarding traffic.

Construction Right of Entry Secured for UH Urban Gardens

Kiewit has received a key construction right of entry for UH Urban Gardens. With this agreement secured, guideway construction can now proceed in this location.

Hitachi to Buy Ansaldo

Hitachi, Ltd. will buy two Ansaldo units from Finmeccanica S.p.A. for $2.2 billion. Hitachi agreed to buy Finmeccanica's AnsaldoBreda S.p.A., which focuses on rail vehicles, as well as its 40 percent stake in Ansaldo STS S.p.A., which specializes in rail signaling equipment and control systems. Ansaldo Honolulu JV is a joint venture of these two companies, Ansaldo STS and AnsaldoBreda. The sale is expected to close later this year.

Cost:

Project Costs Summary Through Jan. 30, 2015		
	Current Budget ($M)	Incurred To Date ($M)
Project Budget	$4,428.8	$1,387.7
Project Contingency	$519.8	$0.6
Finance Charges	$173.1	$0.0
TOTAL	**$5,121.7**	**$1,388.3**

Schedule:

Project Progress Through Jan. 30, 2015				
	Actual		Early Plan	Late Plan
Overall Project Progress	32.0%		50.3%	41.5%
Overall Construction Progress	24.1%		42.6%	33.6%
Overall Design Progress	83.4%		96.0%	91.3%
Overall Utilities Progress	12.2%		42.1%	26.1%

Overview:

Core Systems Contract (CSC)

The CSC contractor is continuing to progress through Interim Design into Final Design on many subsystems. Qualification and design verification tests are on-going. The safety certification team continues to finalize the last 2 CILs and is starting the process of signing off design verification elements. Construction interface and mobilization planning is on-going in preparation for the initial work schedule to begin at the MSF. Core Systems has received the revised access dates reflecting the revised contract procurement plan for the Westside Station contracts and the East Side Design-Build contracts. HART will be working with the CSC contractor to develop a revised baseline schedule. (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 Oʻahu Station Group contract. The manufacturing and installation of the escalators and elevators is dependent on the award and construction of the individual stations. The actual release for manufacturing dates will be in concert with the actual bid and award date for the various stations. (See Section 4.1.B for details)

West Oʻahu Farrington Highway (WOFH) Contract

HART continues to work with the contractor to improve production rates. Kiewit Infrastructure West Company (KIWC) has submitted a revised baseline schedule, which reflects a four month delay to the contractual substantial completion date. KIWC and HART are working to mitigate the impacts to the critical path activities, including the LCC Construction Right of Entry Agreement with the University of Hawaiʻi (UH). HART has reviewed and provided comments to the schedule baseline revision which includes the resequencing of the work activities. These are being analyzed to minimize Program impacts prior to HART's acceptance of the KIWC rebaseline schedule. (See Section 4.2.A for details)

Maintenance and Storage Facility (MSF) Contract

MSF ongoing work includes utilities, track subdrains, ballast and rail installation, OSB and MOW building elevated slabs and interior partitions, roofing, metal framing, and OSB hydraulic lifts. MSF also focused on completing power distribution work including transformer and switch foundations, as well as commenced track work including setting initial turnout. Overall the project is progressing on time with evaluation of a potential six calendar day delay due to weather at critical times during ground excavation activities. (See Section 4.2.D for details)

Kamehameha Highway Guideway (KHG) Contract

While construction right of entry access issues have been resolved at UH Urban Gardens and Aloha Stadium, HART continues to press the contractor to improve production rates. Kiewit and HART are working to mitigate the impacts to the critical path activities, including the implementation of alternative MOT plans along Kamehameha Highway. Kiewit and HART are also working together with the third-party utilities to confirm their schedules. Mitigation measures include the re-sequencing of work activities, modifications to the allowable traffic control measures, and establishment of elevated task force meetings to resolve third-party issues. (See Section 4.3.A for details)

Airport Section Utilities Construction Contract

The Airport Section Utilities Construction contract is approximately one month behind the baseline schedule due to Navy right of entry issues. Nan and HART are working to mitigate the schedule impacts. Potholing and ITS system installation are current activities occurring in the field. Actual utility relocations have begun. (See Section 4.4.B for details)

Airport Seven Piers Construction Contract

The Airport Seven Piers Construction contract is on schedule. Hawaiian Dredging Construction Company/Condon-Johnson & Associates (HDCC/CJA) have begun shaft construction. Hawaiian Dredging's utility subcontractor, Koga, has begun relocating utilities in the field. (See Section 4.4.C for details)

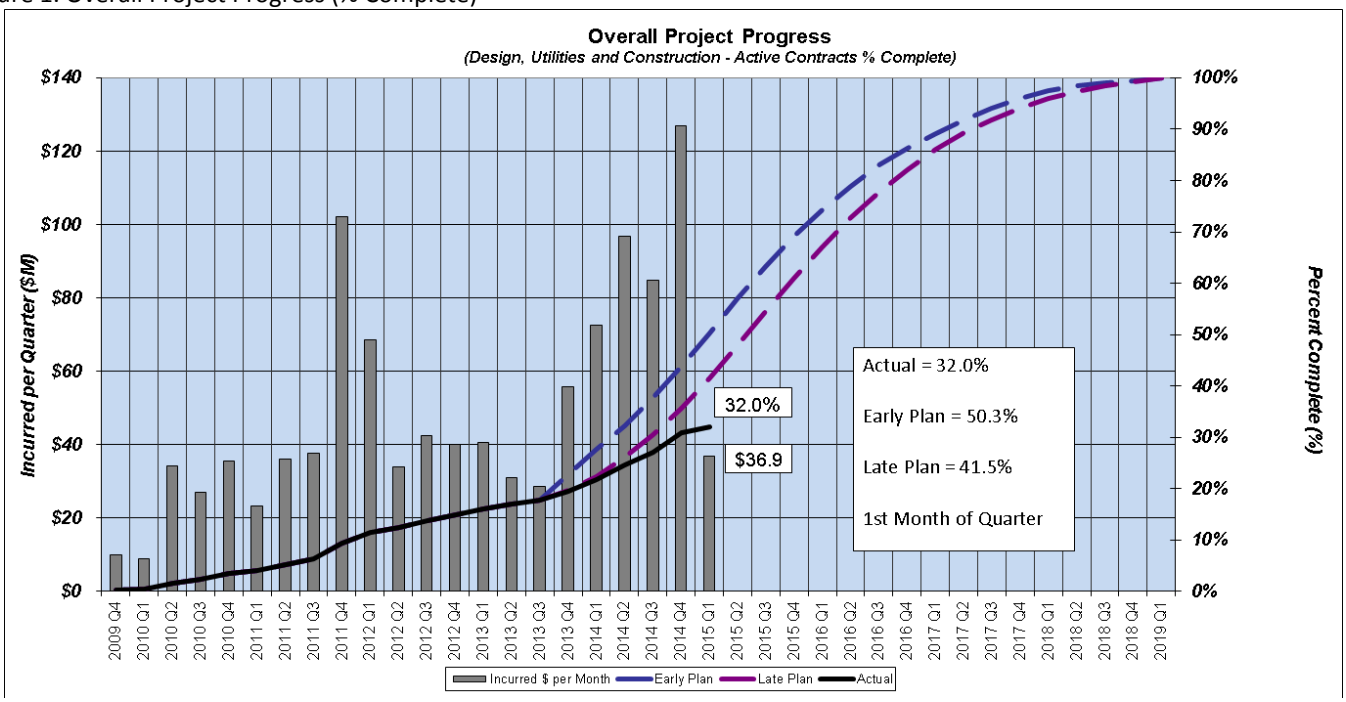
2 OVERALL PROJECT PROGRESS AND FINANCIALS

2.1 Project Progress (data as of Jan. 30, 2015)

Note:

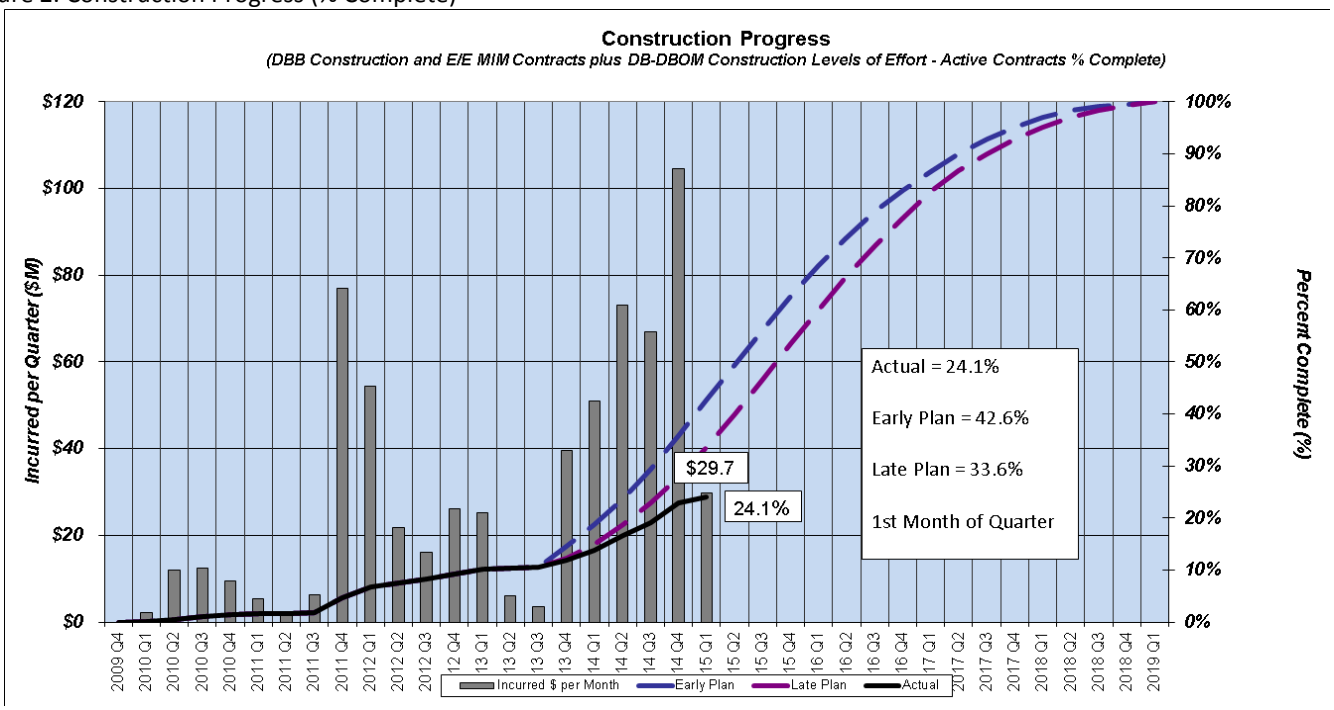
- Actual = Actual cost of work performed, based on invoiced-to-date amount.
- Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
- Late Plan = Latest dates activities can begin and finish and not have an impact on completion date, based on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

Figure 1. Overall Project Progress (% Complete)



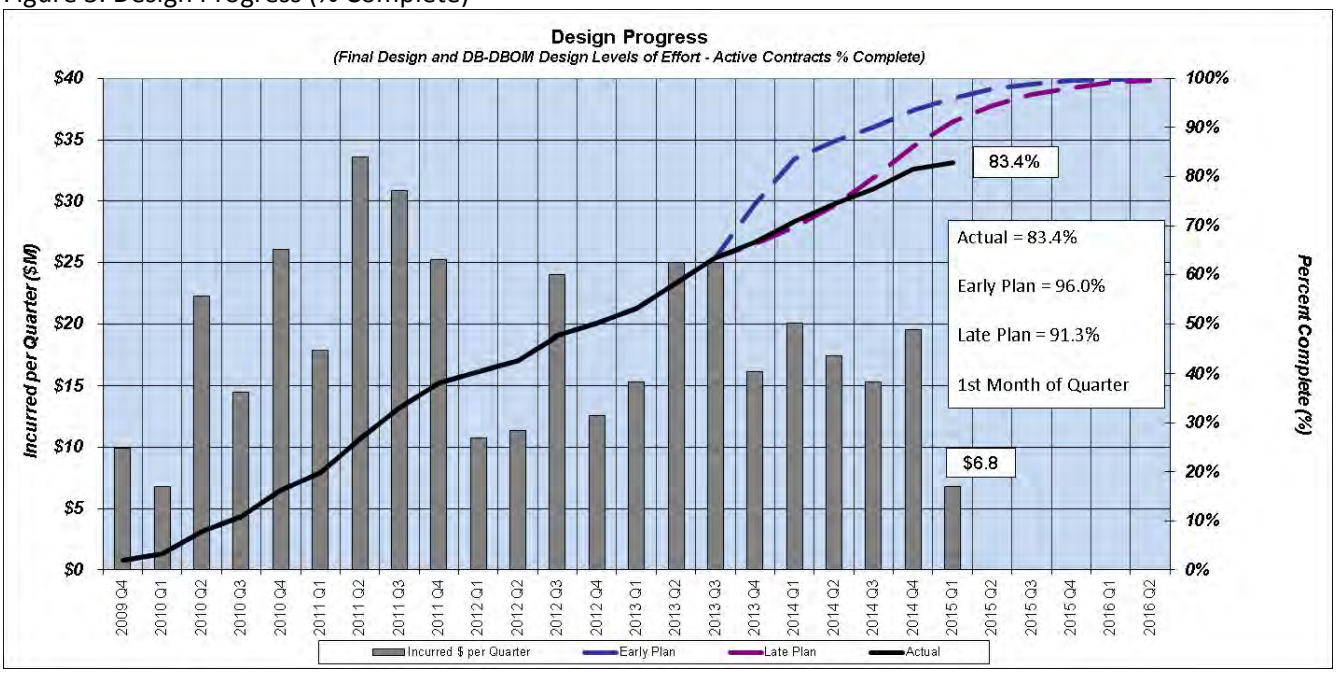
At present "overall" project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM 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)



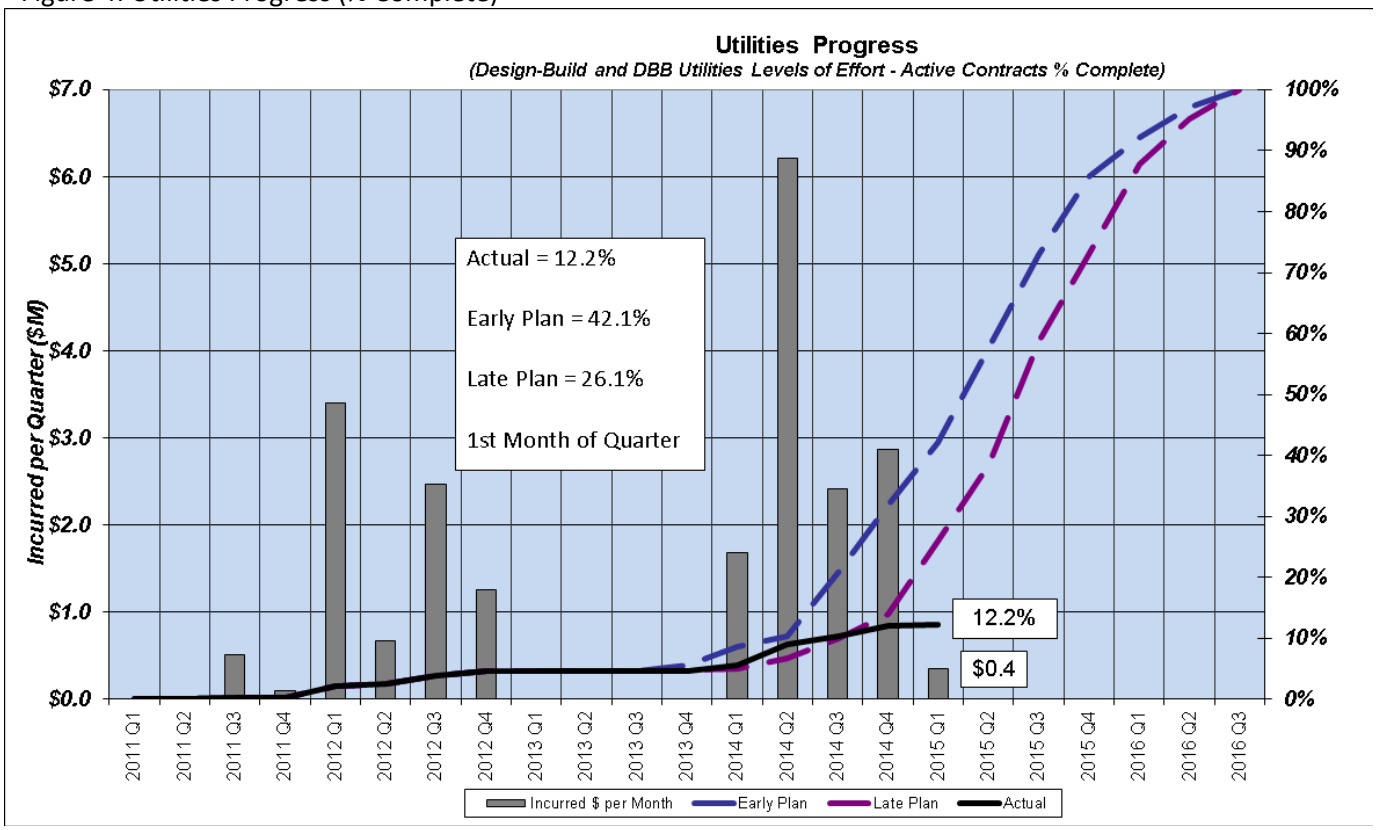
Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort, not including consultant construction engineering and inspection (CE&I) services.

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 Jan. 30, 2015)

Total Incurred Cost = $1,388.3M
(previous report = $1,341.4M)

- FFGA Project Budget = **$5,121.7M**
  - Current Project Budget - $4,428.8M
  - Current Project Contingency - $519.8M
  - Project Finance Charges - $173.1M
- Total Incurred Cost = **$1,388.3M** (31.3% of current project budget)

2.3 Project Contingency (data as of Jan. 30, 2015)

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

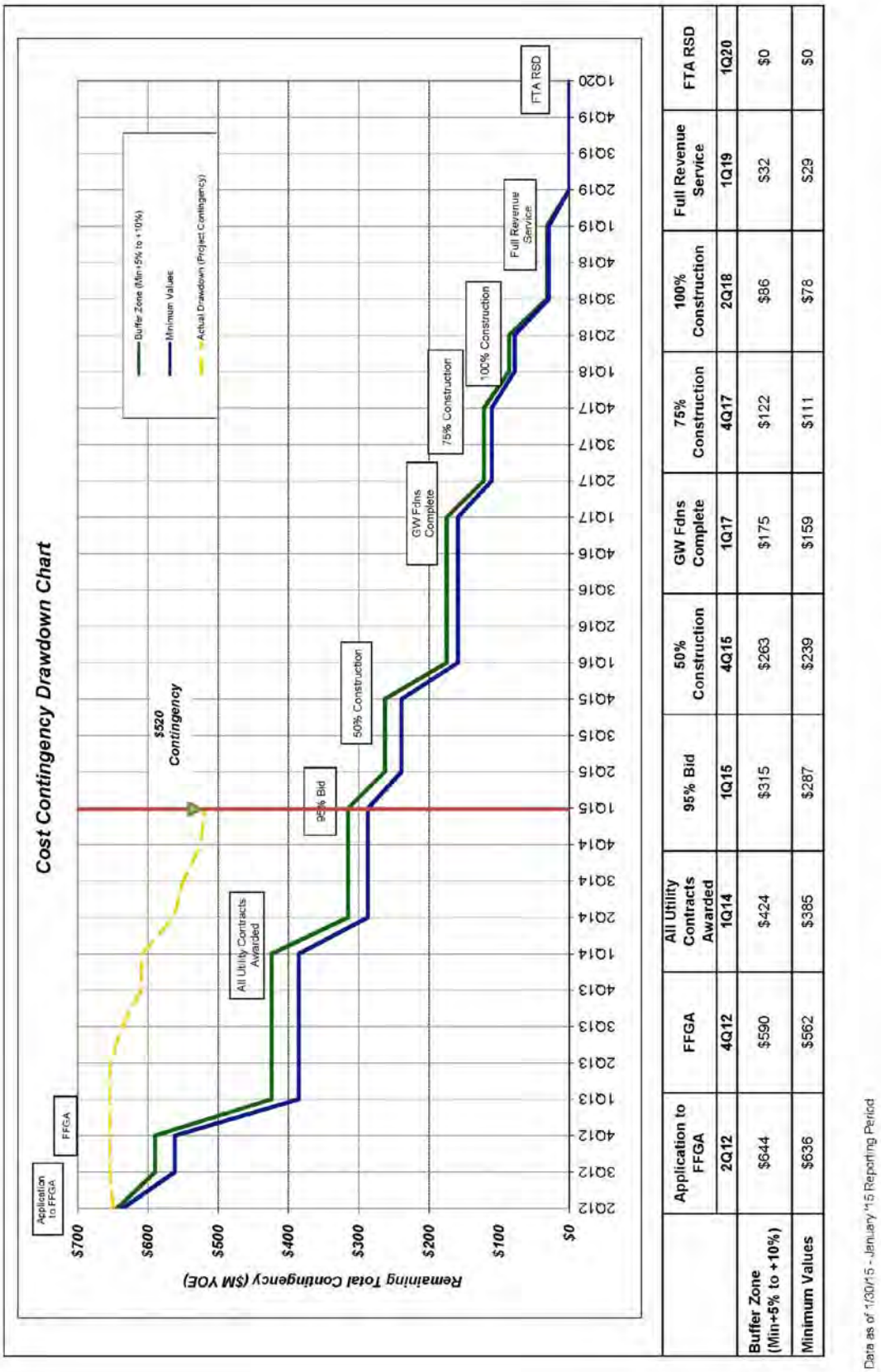
Current Contingency Balance = $519.8M
(previous report = $523.8M)

- Current Project Contingency Balance = **$519.8M**
  - Contingency drawdown to date - $123.8M (19.2% of baseline project contingency budget)
  - $4M contingency drawdown during January 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 November 2014 Report	90.01 - 90.03	($111.8)
Contingency drawdown December 2014 Report	90.01 - 90.03	$10.7
Contingency drawdown January 2015 Report	90.01 - 90.03	($18.7)
Contingency drawdown February 2015 Report	90.01 - 90.03	($4)
Contingency drawdown to date	90.01 - 90.03	($123.8)
Current FFGA Project Contingency	***90.01 - 90.03***	***$519.8***

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

Data as of 1/30/15 - January '15 Reporting Period

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 Jan. 30, 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**	340	**340**
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**	1026	**1,404**
Total	***385***	**5,356**	**1,670**	**2,055**

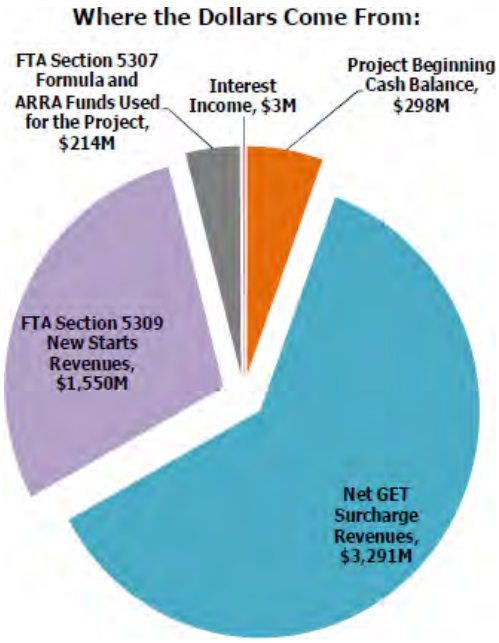
[1] GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE

[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 201 Totals $806.3 Million

Figure 8. Project Funding Sources (YOE $M)



Source: FFGA Financial Plan, p. 2-1

- General Excise Tax (GET) Surcharge
  - $1,026M = amount received since the Project's entry into FTA's Preliminary Engineering phase of project development.
    - $1,066M = Projected Net GET Surcharge Revenue for FYs 2010-3Q 2015, as stated in FFGA Financial Plan (Table A-1 *Capital Plan Cash Flows*)
    - GET receipts are currently running 4% short of projections, or $40M behind.
  - $58M = GET surcharge received in January 2015

Total Cash Received Since PE = $1,670M
(previous report = $1,584M)

GET Received Since PE = $1,026M
(previous report = $968M)

GET Received Since 2007 = $1,404M
(previous report = $1,346M)

- Full Funding Grant Agreement (FFGA)
  - $27,560,845 = New Starts drawdown received in January 2015.

- The §5307 funds for the Project, per the Financial Plan, are $210M.

Figure 9. New Starts Drawdown by Federal Fiscal Year (as of Jan. 30, 2015)

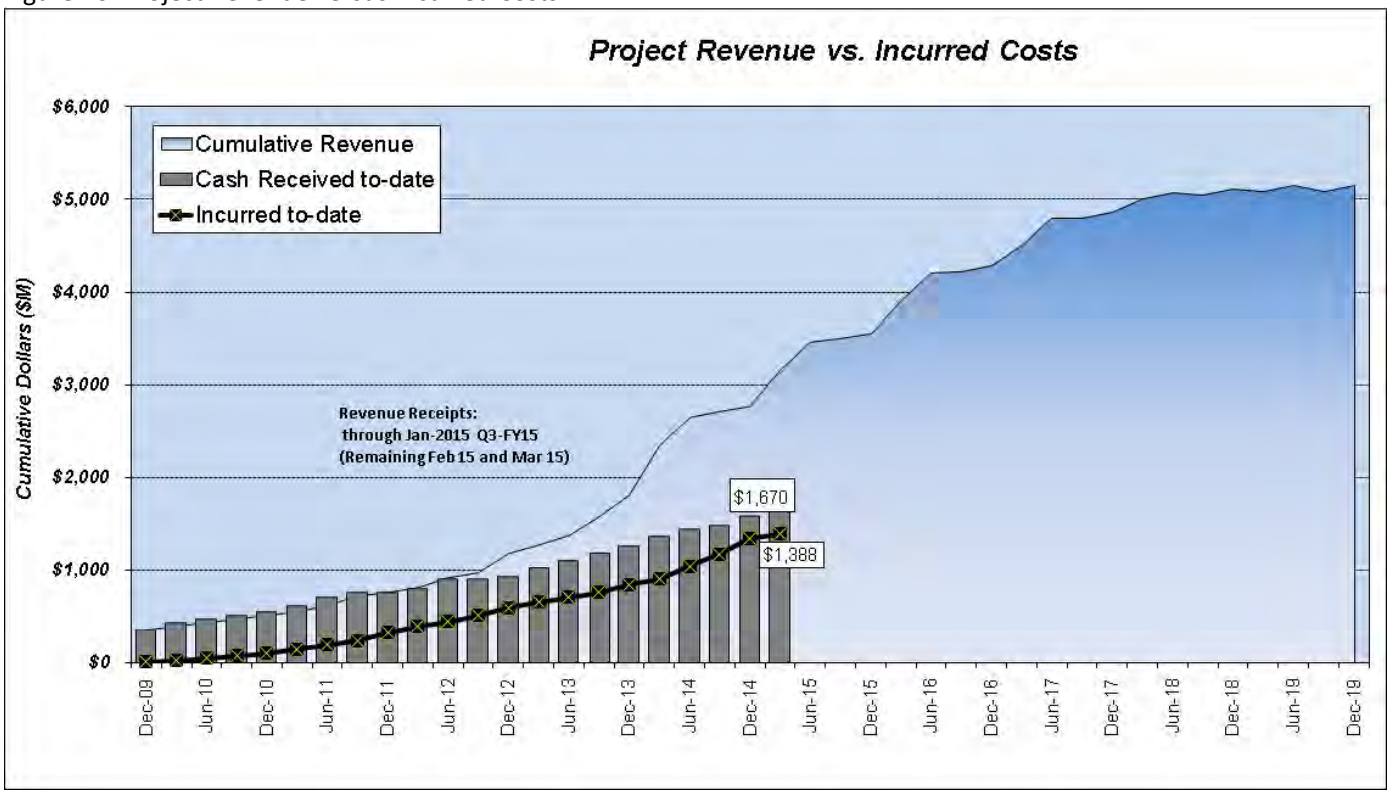
New Starts Grant Information by Federal Fiscal Year				
Federal Fiscal Year Allocation	Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash flow
2008	$15,190,000	$15,190,000	$0	
2009	$19,800,000	$19,800,000	$0	
2010	$30,000,000	$30,000,000	$0	
2011	$55,000,000	$55,000,000	$0	$20,607,242
2012	$200,000,000	$200,000,000	$0	$99,382,758
2013	$236,277,358	$19,883,262	$216,394,096	$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**	**$339,873,262**	**$1,210,126,738**	**$1,550,000,000**

2.5 Project Revenue and Costs

(data as of Jan. 30, 2015)

Ending Cash Balance 1/31/15 = $347.0M
(previous report = $322.0M)

Figure 10. Project Revenue versus Incurred Costs



Planned Funding levels as per the June 2012 FFGA Finance Plan
Data date for Revenue & Incurred Cost = Jan. 30, 2015

Figure 11. Cash Balance Summary

JANUARY 2015 CASH BALANCE SUMMARY		
	JANUARY	YTD Cumulative
Beginning Cash Balance	322,005,547	441,011,319
Expenditures:		
Operating expenditures	(993,480)	(8,410,903)
Capital Expenditures	(31,885,861)	(298,034,943)
Expenditures Total:	(32,879,341)	(306,445,846)
Receipts:		
GET Surcharge	57,829,491	155,773,862
FTA Drawdown*	0	56,352,391
Interest	15,115	148,915
Other (rental, refunds, copy fees, etc.)	12,442	142,613
Receipts Total:	57,857,048	212,417,782
Ending Cash Balance 01/31/15	**346,983,254**	**346,983,254**

*January's $27.6M FTA drawdown was recorded on Feb. 3, 2015

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

3 SCHEDULE

(data as of Jan. 30, 2015)

OVERVIEW

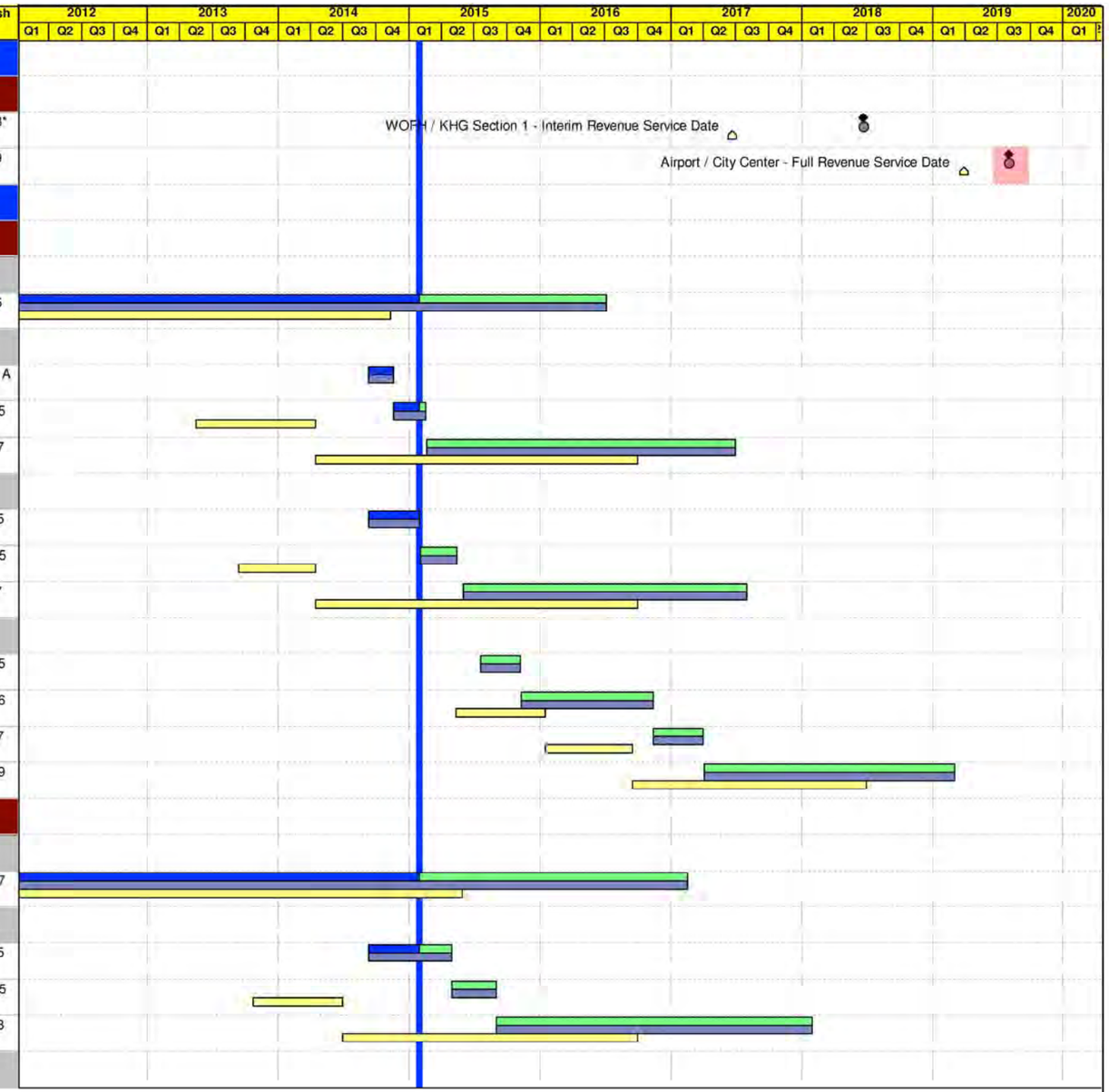
- HART is currently revising its procurement strategy for the east guideway, stations and utility relocations. Once completed, HART will update the design, bid/award and construction dates shown in the monthly MPS summary. Until then, the November MPS forecasts for the Interim Revenue Service Date and the Full Revenue Service will be shown for reference.
- 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

- 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 Name	Type	Current Start	Current Finish
KEY DATA			
MILESTONES			
WOFH / KHG Section 1 - Interim Revenue Service Date	M		22-Jun-2018*
Airport / City Center - Full Revenue Service Date	M		31-Jul-2019
CONTRACTS - DESIGN & CONSTRUCTION			
WEST OAHU / FARRINGTON HIGHWAY (WOFH) - SECTION 1			
WOFH Guideway & Utilities			
SUMM: DB-120 - WOFH Guideway - Design & Construction (Design-Build)	DB	01-Dec-2009 A	04-Jul-2016
Farrington Hwy Station Group (FHSG)			
Farrington Hwy Station Group - Redesign	D	10-Sep-2014 A	20-Nov-2014 A
Farrington Hwy Station Group - Bid & Award	A	20-Nov-2014 A	17-Feb-2015
Farrington Hwy Station Group - Construction	C	18-Feb-2015	30-Jun-2017
West Oahu Station Group (WOSG)			
West Oahu Station Group - Redesign	D	10-Sep-2014 A	31-Jan-2015
West Oahu Station Group - Bid & Award	A	01-Feb-2015	15-May-2015
West Oahu Station Group - Construction	C	01-Jun-2015	31-Jul-2017
East Kapolei/UH West Oahu Park & Ride			
SUMM: FD-600 UH West Oahu Park & Ride - Procurement	D	20-Jul-2015	08-Nov-2015
SUMM: FD-600 UH West Oahu Park - Design	D	09-Nov-2015	13-Nov-2016
SUMM: DBB-600 UH West Oahu Park & Ride - Bid & Award	A	14-Nov-2016	02-Apr-2017
SUMM: DBB-600 UH West Oahu Park & Ride - Construction	C	03-Apr-2017	04-Mar-2019
KAMEHAMEHA HIGHWAY (KH) - SECTION 2			
Kamehameha Highway Guideway & Utilities			
SUMM: DB-320 - KHG Guideway - Design & Construction (Design-Build)	DB	12-Jun-2011 A	17-Feb-2017
Kamehameha Highway Stations			
Kamehameha Hwy Station Group - Redesign	D	10-Sep-2014 A	30-Apr-2015
Kamehameha Hwy Station Group - Bid & Award	A	01-May-2015	31-Aug-2015
Kamehameha Station Group - Construction	C	01-Sep-2015	31-Jan-2018
Pearl Highlands Parking Structure			



HART HONOLULU AUTHORITY for RAPID TRANSPORTATION

FFGA Baseline
Dec 2014 Updt
Remaining Work
Actual Work
FFGA Baseline Milestone
Dec 2014 Updt Milestone
Milestone

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Honolulu Rail Transit Project
January 2015 Update
As of: 30-Jan-2015

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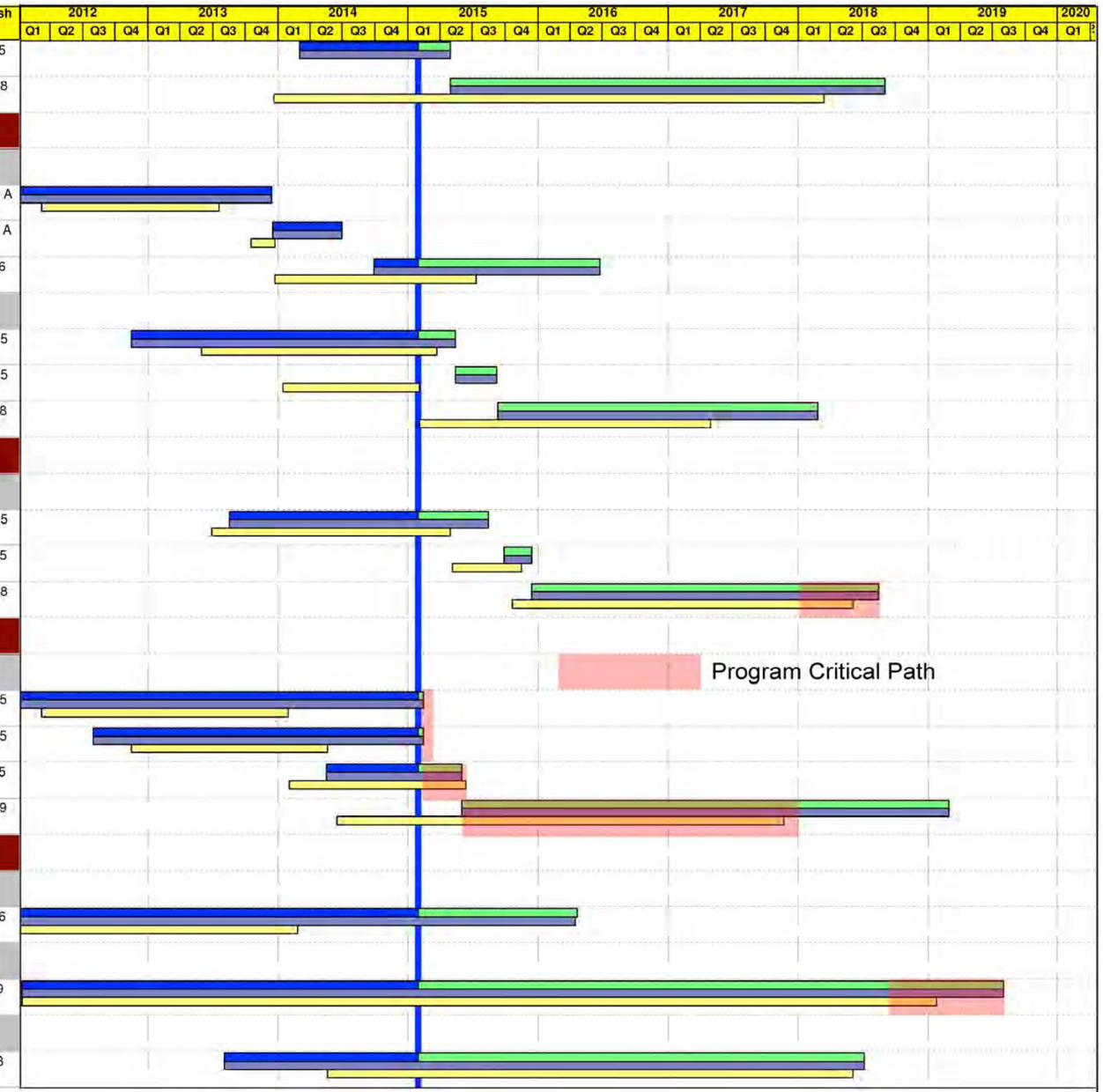
Activity Name	Type	Current Start	Current Finish
SUMM: Pearl Highlands Pking Structure & H2 Ramps - DB Procurement	D	03-Mar-2014 A	30-Apr-2015
SUMM: DB-275 - Pearl Highlands Pking Structure & H2 Ramps - Design & Construction (Design Build)	DB	30-Apr-2015	01-Sep-2018
AIRPORT - SECTION 3			
Airport Utility Relocation			
SUMM: FD-430 - Airport Utilities - Design	D	05-Jan-2012 A	16-Dec-2013 A
SUMM: Airport Utilities - Bid & Award	A	17-Dec-2013 A	30-Jun-2014 A
DBB-505 - Airport Utilities - Construction	C	26-Sep-2014 A	24-Jun-2016
Airport Stations			
SUMM: FD-440 - Airport Stations Group - Design	D	14-Nov-2012 A	14-May-2015
SUMM: Airport Stations Group - Bid & Award	A	15-May-2015	08-Sep-2015
SUMM: DBB-470 - Airport Stations Group - Construction	C	09-Sep-2015	24-Feb-2018
CITY CENTER (CC) - SECTION 4			
City Center Stations			
SUMM: FD-550 - Dillingham & Kaka'ako Stations Group - Design	D	19-Aug-2013 A	14-Aug-2015
SUMM: Dillingham & Kaka'ako Station Group - Bid & Award	A	28-Sep-2015	14-Dec-2015
SUMM: DBB-580 - Dillingham & Kaka'ako Station Group - Construction	C	15-Dec-2015	14-Aug-2018
Airport & City Center Guideway / City Center Utilities Combined Package			
Airport & City Center Guideway / City Center Utility Relocation			
SUMM: FD-430 - Airport Guideway - Design	D	05-Jan-2012 A	12-Feb-2015
SUMM: FD-530 - City Center Guideway & Utilities - Design	D	31-Jul-2012 A	12-Feb-2015
SUMM: Airport & City Center Guideway / City Center Utilities - Bid & Award	A	16-May-2014 A	01-Jun-2015
SUMM: DBB-520 - Airport & City Center Guideway / City Center Utilities - Construction	C	02-Jun-2015	01-Mar-2019
PROJECT WIDE - ALL SECTIONS			
Maintenance & Storage Facility (MSF)			
SUMM: DB-200 - MSF - Design & Construction (Design-Build)	DB	25-Jul-2011 A	21-Apr-2016
Core Systems			
SUMM: DBOM-920 - Core Systems - Design & Construction	DB	13-Jan-2012 A	31-Jul-2019
Elevators & Escalators			
SUMM: MI-930 - Elevators and Escalators - Design, Manufacture, Install, & Test	DB	02-Aug-2013 A	05-Jul-2018



HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

FFGA Baseline
Dec 2014 Updt
Remaining Work
Actual Work
FFGA Baseline Milestone
Dec 2014 Updt Milestone
Milestone

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Honolulu Rail Transit Project
January 2015 Update
As of: 30-Jan-2015

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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.
- Progressing with sub-system testing and design verification activities.
- Executed Change Order # 15 Test and Storage Track Changes at MSF.

Fare Collection System (Section 4.1.C)

OVERVIEW

- Fare Collection Technical Support RFQ is on track for release in early March 2015.
- Both procurements are linked to signature of MOU by DTS to commit City and County funds for the system databases.

KEY ISSUES

- Fare Collection system RFP is under preparation to be released in first quarter 2015, subject to MOU confirmation with the City.
- Confirmation of funding sources for HART and City portions of the multi-modal fare system.

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

OVERVIEW

- Consistent Span Erection/Stressing Construction Progress – this consistency will allow the team to have a better reference for reviewing the schedule and forecasting future work.
- Leeward Community College (LCC) Portables and Parking Lot Change Order – Change Order 063, Procurement of LCC Portables/Parking Lot has been developed to allow KIWC to procure four (4) portable buildings for LCC. The procurement of the buildings are long lead time items which have been on the project’s critical path. Once the buildings are installed, work can begin at the LCC Station area.
- Track Welding and Concrete Plinth Work – track construction operations are continuing at a good pace. Flash butt track welding began on trackwork north of the Maintenance and Storage Facility, and the concrete plinths under the double crossover (the first of four for the project) east of Ho‘opili Station was completed. KIWC is learning from these operations and will continue the push forward into the coming months to construct trackwork.

KEY ISSUES

- U.S. Army Corps of Engineers (Corps) Section 404 Permit (for additional detail, see 4.2.A Key Issues)
- Span 67 Damage and Repair Procedures (for additional detail, see 4.2.A Key Quality Issues)
- Drill Shaft Quality/Repairs (for additional detail, see 4.2.A Key Quality Issues)

Maintenance and Storage Facility (Section 4.2.D)

OVERVIEW

- MSF on-going work includes underground utilities, track subdrain, ballast and rail installation, OSB and MOW elevated slab, roofing, metal framing, and OSB hydraulic lifts. Commenced work on TPSS foundation.

KEY ISSUES

- Resolution of potential Electromagnetic Forces (EMF) interference between low voltage power and automatic train control systems within yard electrical trenches.
- Scheduling HECO incoming power duct bank inspection and installation of service cables.
- Defining access and internal movement requirements for rail car delivery, assembly and transfer to storage.

Kamehameha Highway Guideway (Section 4.3.A)

OVERVIEW

- Construction right of entry access issues have been resolved at UH Urban Gardens and Aloha Stadium.
- Shaft installation along the KHG guideway alignment has resumed at two locations: Shaft 271 (Pearl Highlands) working eastward, and the group of shafts from 415 to 420 (Aloha Stadium) which will be completed as a group before working westward.
- Final Test Shaft, TS 15A, was installed and is pending CSL testing.

KEY ISSUES

- Permanent easements: the Design-Builder has identified 14 locations that are believed to require permanent easements for relocated utilities. KIWC and HART are working together to resolve this issue.
- HDOT betterments: a meeting between HART and HDOT was held and betterments acknowledged by HDOT. HART and HDOT are working together to determine the path forward to resolve this issue while minimizing construction delays.
- Schedule: Lack of a current project schedule from KIWC hampers the project team's ability to plan and mitigate for any critical path items that may be upcoming. The revised schedule submitted on Dec. 5, 2014, was returned to KIWC with the request to re-submit as part of a change order asking for a modification to the substantial completion.

Final Design Contracts (various sections)

OVERVIEW

- Active Procurements:
  - Bids for the Farrington Highway Stations Group (FHSG) construction contract will be opened on March 3, 2015.
  - Bids for the H2R2 Ramp construction contract will be opened on March 24, 2015.
- Upcoming Procurements:
  - Bid documents for the West O'ahu Stations Group (WOSG) construction contract will be advertised on April 13, 2015.
  - HART is establishing the requirements for the upcoming Airport Guideway and Stations Design-Build (DB) package.
  - HART is establishing the requirements for the upcoming City Center Guideway and Stations DB package.
  - HART is determining the scope for a potential City Center Utilities Design-Bid-Build (DBB) package.

KEY ISSUES

- HART is evaluating and implementing cost reduction alternatives throughout the project. For DBB contracts, final designs are being revised to reduce costs. For DB contracts, design requirements are being tailored to promote cost savings where appropriate.

Airport Utilities (Section 4.4.B)

OVERVIEW

- Field office set up for DBB-505 Airport Section Utilities Construction.

KEY ISSUES

- ROE into Navy.

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

OVERVIEW

- Foundation and utility relocation work is currently in progress.

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: July 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 on-going. The safety certification team continues to finalize the last 2 CILs and is starting the process of signing off design verification elements. Construction interface and mobilization planning is on-going in preparation for the initial work schedule to begin at the MSF. Passenger vehicle manufacturing, key system manufacturing, design verification and qualification testing activities are on-going. HART has provided revised construction access milestone dates for facilities work and the CSC is incorporating these dates into its schedule.

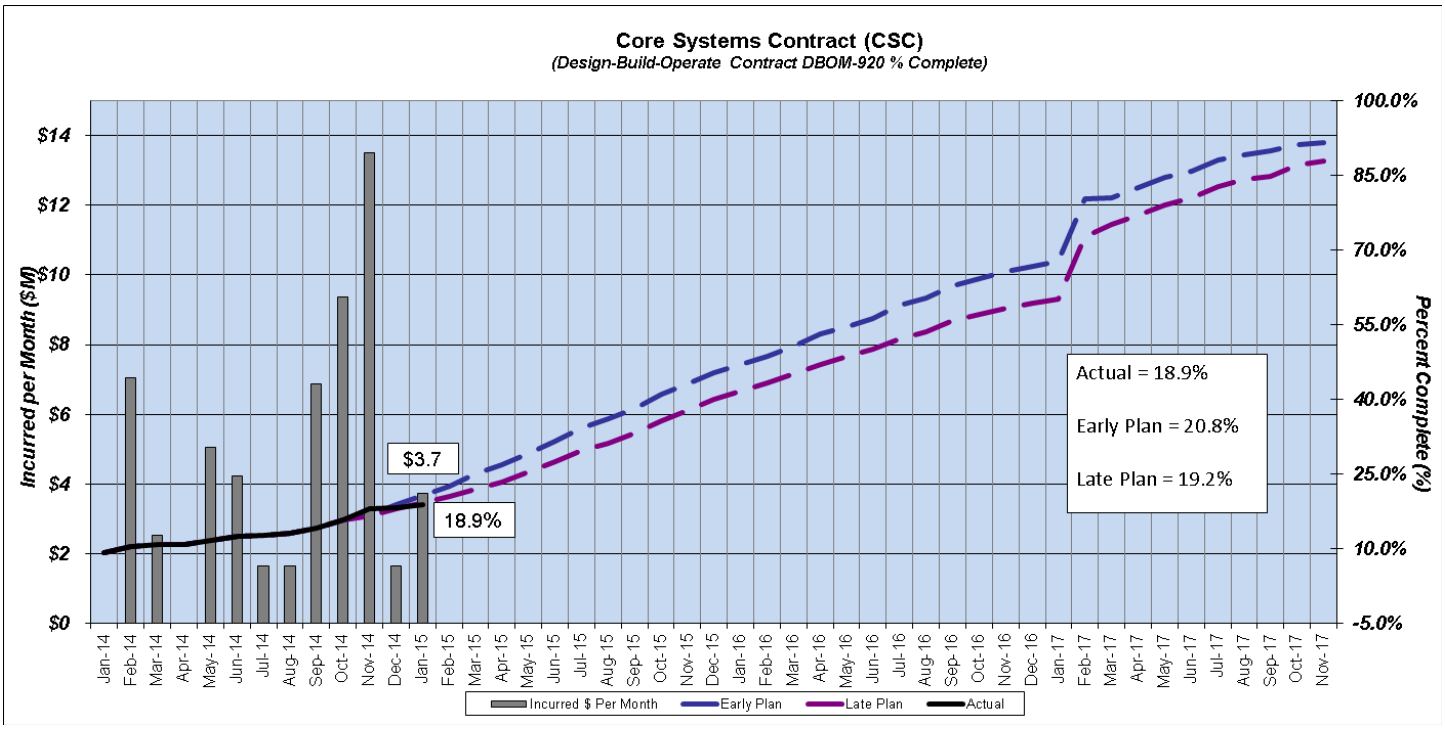
COST INFORMATION:

Original Contract:	$573,782,793	Incurred-to-Date:	$112,735,639
Current Contract Value[1]:	$595,139,998	Incurred in Jan.:	$3,748,053

[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:	$109,023
DBE % Attained:	0.025%

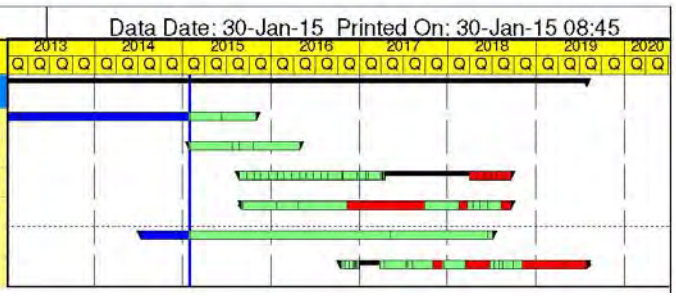
January Change Orders		
Change No.	Description	Amount ($)
CCO# 0015	Test Track Changes at MSF	$2,510,000
	Cumulative to Date	**$21,357,205**



SCHEDULE:

January 2015 Update — Data Date: 30-Jan-15 Printed On: 30-Jan-15 08:45

Activity ID	Activity Name	Start	Finish
	Core Systems & Vehicles (DBOM) Contract	17-Jan-12 A	31-Jul-19
	Core Systems Design	17-Jan-12 A	30-Oct-15
	Core Systems Maintenance & Storage Facility Install	30-Jan-15	29-Apr-16
	Core Systems Guideway Install	24-Aug-15	17-Sep-18
	Core Systems Stations Install	04-Sep-15	18-Sep-18
	Core Systems Vehicles	15-Jul-14 A	06-Jul-18
	Core Systems Local and Integrated Testing	14-Oct-16	31-Jul-19

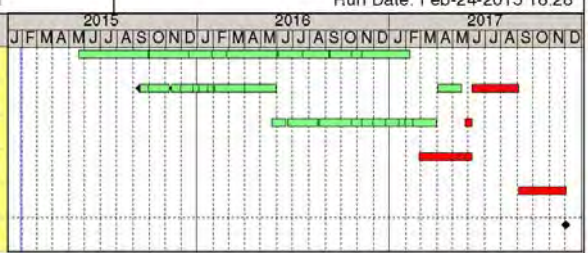


	Interim Design Submitted Documents	Final Design Submitted Documents	Target Completion Date
Passenger Vehicles	82%	5%	2nd Q 2015
Communications	100%	18%	2nd Q 2015
ATC/SCADA	94%	80%	2nd Q 2015
TES	100%	83%	2nd Q 2015
Fire Detection	100%	47%	2nd Q 2015
PSG, UPS, MPV	N/A	24%	2nd Q 2015

CRITICAL PATH SUMMARY:

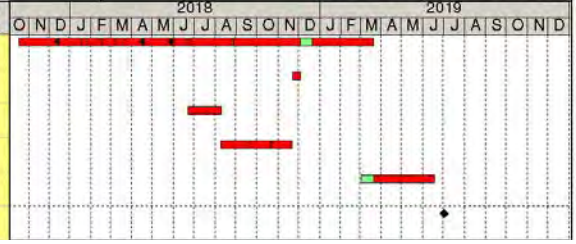
CSC BPS for PR38 Jan 30, 2015 — Interim Opening Critical Path — Run Date: Feb-24-2015 16:28

Activity ID	Rem Dur	Start	Finish	Total Float
2 - MSF Sussystem Completion	630	May-20-2015	Feb-07-2017	1
3 - Station and Wayside Install & Test	721	Sep-15-2015	Sep-04-2017	-18
4 - SCADA/Train Control Testing	272	May-23-2016	Jun-06-2017	-12
5 - Low & Line Speed Testing	72	Feb-27-2017	Jun-06-2017	-12
6 - Pre-Operation System Demonstration	90	Sep-05-2017	Dec-03-2017	-18
7 - Interim Opening	0	Dec-03-2017	Dec-03-2017	-18



CSC BPS for PR38 Jan 30, 2015 — Full Opening Critical Path — Run Date: Feb-24-2015 16:57

Activity ID	Rem Dur	Start	Finish	Total Float
3 - Station and Wayside Install & Test	519	Oct-18-2017	Mar-20-2019	-17
4 - S CADA/Train Control Testing	8	Nov-22-2018	Dec-03-2018	0
4 - SCADA/Train Control Testing	35	Jun-22-2018	Aug-09-2018	0
5 - Low and Line Speed Testing	74	Aug-10-2018	Nov-21-2018	0
6 - Pre-Operation System Demonstration	108	Mar-03-2019	Jun-18-2019	-17
7 - Full Opening	0	Jul-01-2019	Jul-01-2019	-30



- Developing a new CIL for the construction elements of the Yard Control Bungalow. The team identified a gap in the CIL lists that had been developed to date. We are working to get SSRC approval and sign-off of the design elements in advance of the start of construction activities.
- Continue to coordinate construction activities with the MSF contractor and the CSC installer.
- Vehicle carshell assembly has experienced a delay of 2 weeks due to issues with the start of Underframe Welding. The quality team on-site has been coordinating with the HART on-site inspector and has identified corrective actions to correct the deficiency. Work is again moving forward on the assembly of the first car-shell. At this time, we do not anticipate a delay in the overall planned shipment date to Final Assembly.

WORK PROGRESS:

Activities this Month:

- Project-Wide Percent Complete: 20%
- Passenger Vehicle Percent Complete: 20%
- ATC/SCADA – Documents Received: 12, Documents Reviewed: 12.
- Communications – Documents Received: 3, Documents Reviewed: 12.
- Traction Power – Documents Received: 7, Documents Reviewed: 39.
- Fire Detection – Documents Received: 9, Documents Reviewed: 8.
- Platform Screen Gates – Documents Reviewed: 4.
- Passenger Vehicles – Documents Received: 41, Documents Reviewed: 18.
- Conducted ATC/SCADA Vehicle On-Board Equipment Environmental Tests.
- Performed manufacturing oversight at the AnsaldoBreda factory in Reggio Calabria, Italy.
- Witnessed the conclusion of the first phase of the PV truck-mounted gearbox 100-hour qualification tests.
- Developed HART's Preliminary Engineering Level Certifiable Items List for the Yard Control Bungalow.

Look Ahead:

- Completion of Passenger Vehicle final design.
- Completion of ATC/SCADA Final Design for Segment 1.
- Completion of TES Final Design for Segment 1.
- Passenger Vehicle Manufacturing – Continue carshell assembly of Vehicle #1 in Reggio Calabria, Italy.
- Factory Acceptance Tests for TES equipment (Blue Light Stations, MSF TPSS) – Tualatin, OR and Fontana, CA.
- Factory Acceptance Test for Electrical Operated Switches – Troy, MO.
- Pre-Shipping Inspection Test for Vehicle ATC System Cabracks – Batesburg, SC.
- Pre-Shipping Inspection Test for MSF SCADA Hardware – Batesburg, SC.
- Pre-Shipping Inspection Test for MSF TCCR Equipment – Batesburg, SC.
- UPS Prototype tests for Electromagnetic Compatibility (EMC), compliance with Underwriters Laboratories (UL) Standards, and Seismic Tests – China.
- UPS Design Verification Tests – China.

KEY ISSUES:

- Finalize options for shielding of communications equipment from Electromagnetic Interference (EMI) due to the proximity of the AM radio tower near the Middle Street Station. HART is evaluating alternatives to mitigate EMI, and/or moving the antenna.
- HART is closely monitoring Passenger Vehicle production in Italy and working with AnsaldoBreda (AB) to prepare for final assembly start-up in Pittsburg.
- HART has provided 2 notices of delayed access; the July 2014 notice and the recent notice of delayed access due to the repackaging of stations and guideway contracts. HART and AHJV are working to evaluate options that can minimize the cost impact associated with the delay.
- 4-Car Train – Negotiations are still in progress.
- AHJV has asserted that it has had a 9-month delay in starting work due to CSC protest. This issue is in mediation, but the mediation is delayed awaiting AHJV input to proceed.

QUALITY MANAGEMENT:

- Testing and Oversight Activities:

Design Verifications & System Testing		
Subsystem	Test Completed	Date Completed
ATC/SCADA	First part of Vehicle Train Control Environmental and EMI Tests	Jan. 15 to Jan. 23, 2015
Passenger Vehicles	First phase of the PV truck-mounted gearbox 100-hour qualification tests	Jan 26. to Jan. 30, 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	On going
Pittsburgh, CA	Vehicle Final Assembly	Not Started

CSC NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
13	**13**	**0**

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.

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 Farrington Highway Station Group escalators and elevators will be released for manufacturing in March 2015 to meet the required dates for Leeward Community College, Waipahu and West Loch stations. The design for the West O'ahu Station Group will be completed by the end of March 2015. The Kamehameha Station Group will be completed in the third quarter of 2015.

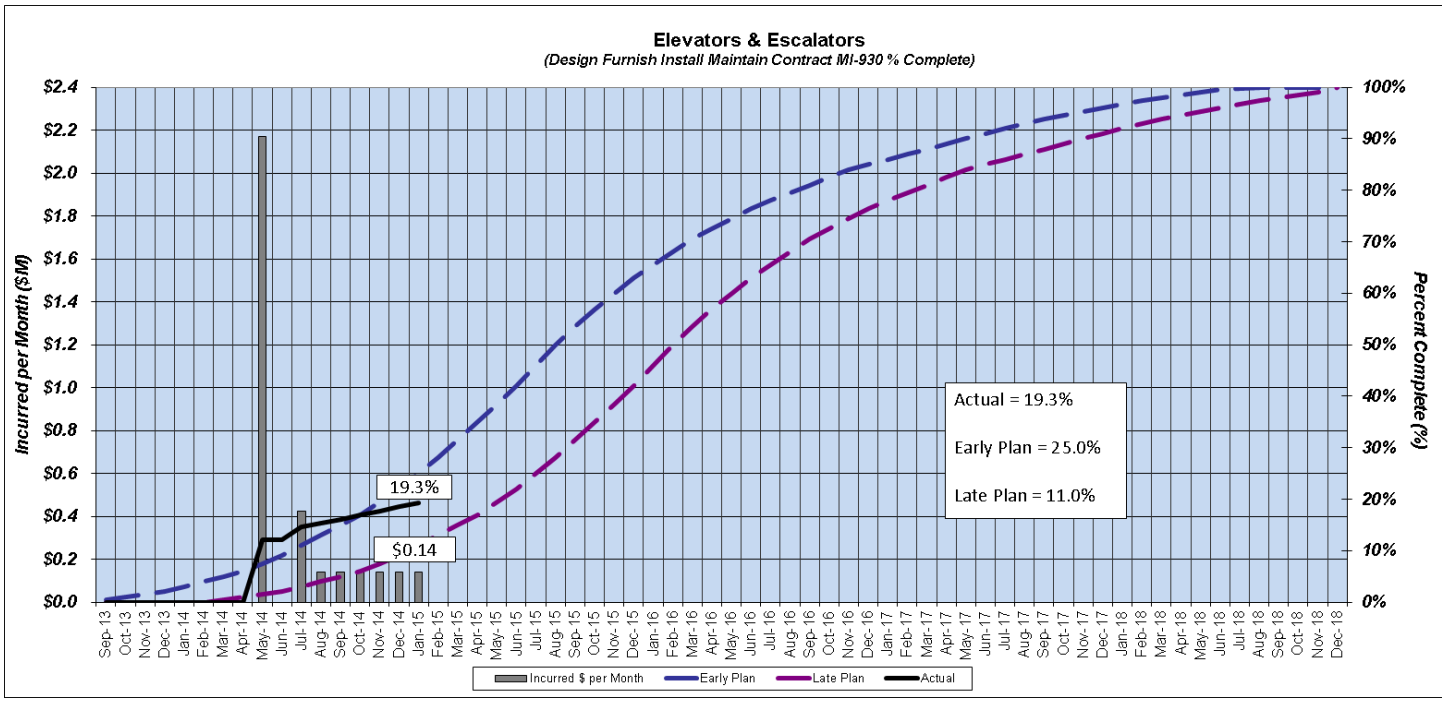
COST INFORMATION:

Original Contract: $50,982,714	Incurred-to-Date: $3,439,172
Current Contract Value[1]: $50,982,714	Incurred in Jan.: $140,824

[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%

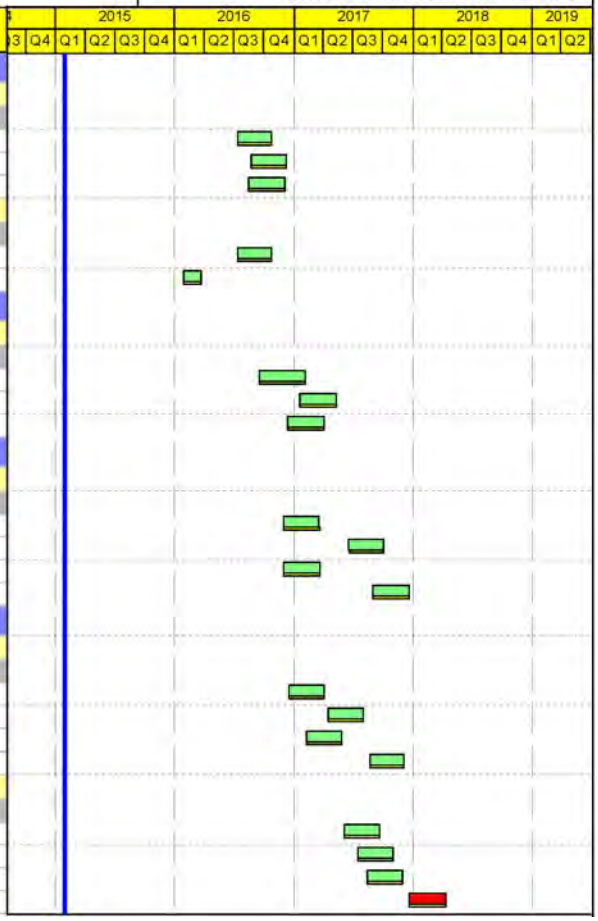
January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$0**



SCHEDULE:

January 2015 Update — Data Date: 30-Jan-15, Printed On: 11-Feb-15

Activity Name	Start	Finish
W. Oahu/Farrington Highway (WOFH) - Section 1	27-Jan-16	08-Dec-16
W. Oahu Station Group	12-Jul-16	08-Dec-16
Construction - W. Oahu Station Group	12-Jul-16	08-Dec-16
East Kapolei Station	12-Jul-16	25-Oct-16
UH West Oahu Station	23-Aug-16	08-Dec-16
Ho'opili Station	15-Aug-16	02-Dec-16
Farrington Highway Station Group	27-Jan-16	25-Oct-16
Construction - Farrington Highway Station Group	27-Jan-16	25-Oct-16
West Loch Station	12-Jul-16	25-Oct-16
Waipahu Transit Station	27-Jan-16	21-Mar-16
Kamehameha Highway (KH) - Section 2	16-Sep-16	09-May-17
Kamehameha Highway Station Group	16-Sep-16	09-May-17
Construction - Kamehameha Highway Station Group	16-Sep-16	09-May-17
Pearl Highlands - Station	16-Sep-16	06-Feb-17
Pearl Ridge Station	20-Jan-17	09-May-17
Aloha Stadium Station	14-Dec-16	03-Apr-17
Airport - Section 3	30-Nov-16	19-Dec-17
Airport Station Group	30-Nov-16	19-Dec-17
Construction - Airport Station Group	30-Nov-16	19-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	19-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-Feb-17	26-May-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 Escalator-Elevator contract.

WORK PROGRESS:

Activities this Month:

Earned Value: 6.9% *[(Total Achieved to December 2014 (3.4 million) + Projected January 2015 Period (0.1 million))/Total Contract Including Executed Change Orders (51 million)].*
Planned Value: 20%

- Design is 18% complete.
- All draft equipment drawings for the 21 stations have been submitted for review and acceptance and are in review.
- Design for the West Loch, Leeward Community College, and Waipahu Transit Center Stations was completed in January.

Look Ahead:

- Design will continue on the three WOSG stations, and the three KHSG stations.
- Elevator & Escalator team will continue meeting with final designers for the West O'ahu Station Group and the Kamehameha Highway Station Group to finalize the respective designs for elevators and escalators. The Elevator & Escalator team is continuing to meet with the Airport Station designers. Meetings with the designer for the City Center stations have been suspended.
- The release to begin manufacturing of the FHSG equipment will occur in March 2015.

KEY ISSUES:

- The release to allow manufacturing for WOSG and KHSG will be dependent on the successful bid and award of these stations later this year (2015).

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 approximately 90% complete and the remaining RFP package is 75% complete. Current schedule would see the start of procurement in first quarter 2015, provided an MOU defining the roles, relationships, and funding responsibilities between the City and County and HART is in place, and the funds are allocated and committed. An additional RFP for technical support service will also be launched in a similar timeframe.

COST INFORMATION: TBD

SCHEDULE:

- Anticipated RFP release in first quarter 2015 with RFP award anticipated for start of FY2016 (July 1, 2015).
- System design anticipated for winter 2015-2016.
- Manufacture in spring 2016.
- System testing prior to pilot, fall 2016-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:

- Funding approval completed and funds committed for Fare System Design Build.
- Funding approval completed and funds committed for Fare System Consultant Technical Support.
- MOU with City and County of Honolulu (DTS, BFS and DIT) signed committing to cost share central system elements and pay for TheBus equipment.

WORK PROGRESS:

Activities this Month:

- Draft Report for circulation to PIG regarding Fare System Budget.
- Resolve joint ownership issues for MOU completion.
- Finalize funding approval for Technical Consultant Support RFQ.
- Complete review of Special Provisions for RFP with Procurement Department.
- Finalize Technical Specification.

Look Ahead:

- Completing General Terms and Conditions (GT) and Special Provisions (SP) for Fare System RFP.
- Meeting with Fare System RFP evaluation team to confirm evaluation criteria.
- Work with PIG to agree with Fare System vendor budget and recommend to HART Board at the March meeting.
- Finalize MOU terms and get signatures prior to RFP release at the end of March.

KEY ISSUES:

- Confirmation of cost sharing amounts and ownership arrangements for capital portion of the Fare system with the City and agreement by City to fund the project with HART in lead for procurement. See critical path MOU.
- Allocation of HART fare system capital budget in time for procurement in early 2015 to meet current schedule.
- Current fare system procurement plan includes interim opening inclusive of two deployments, two warranties and approximately 1 year of equipment storage (for remaining equipment) for rail. Budget and RFP structure would change if no revenue collection at rail stations during interim opening. The FFGA assumes $2 million in revenue is captured from fare collection during interim opening.
- Governance for HART fare policy agreement is still to be determined. Any changes to current transit fare policy are required by the end of 2015 to meet system design and testing requirements for interim opening with revenue collection.

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: October 2016

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 February 2015 Report, progress for utilities, shaft, column, segment casting, and span stressing have been updated. Key Issues from the previous period, like the balanced cantilever systems maintenance of traffic (MOT) conflicts with HDOT project, are no longer major issues as coordination is going well. Obtaining the 404 Permits for early construction work and drill shafts operations to begin in the Pearl Highlands Station area is becoming critical. The Project's Key Quality Issues continue to focus on drilled shafts, segment repair and construction trends.

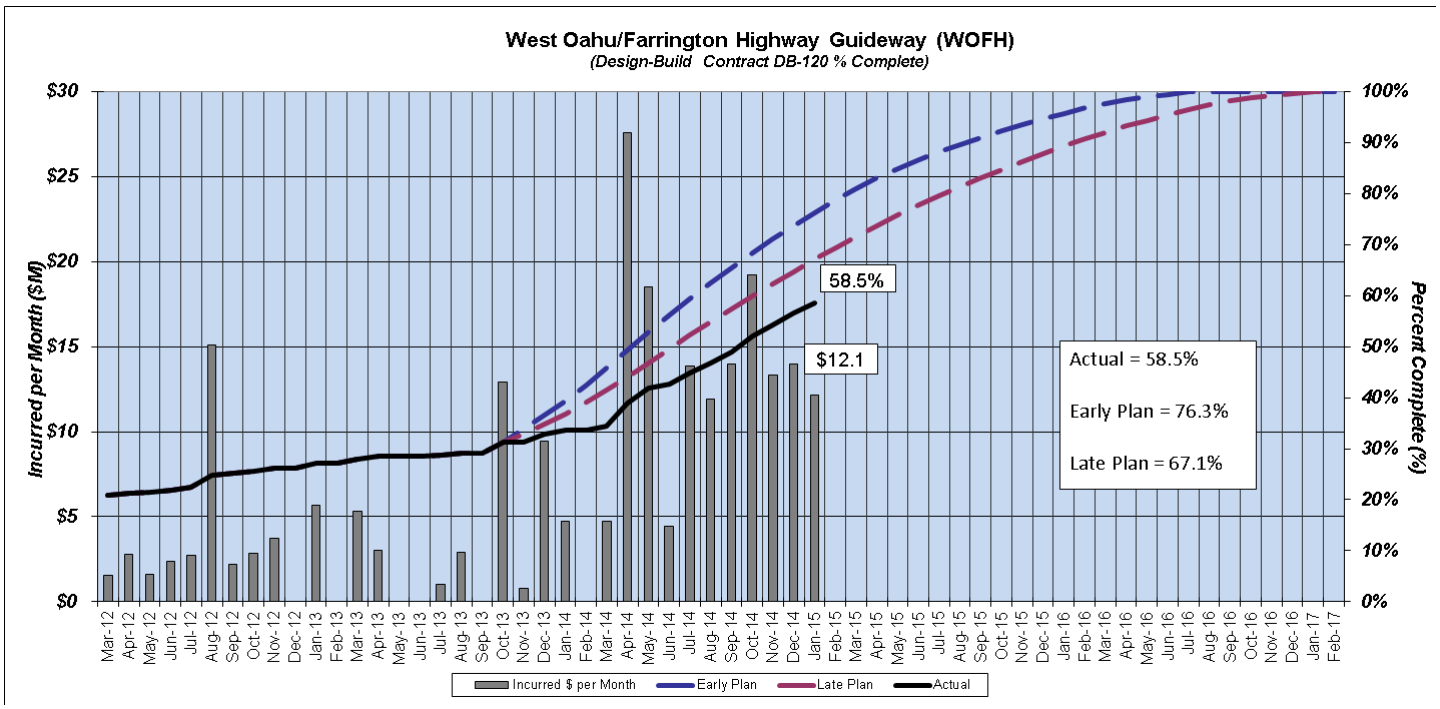
COST INFORMATION:

Original Contract:	$482,924,000	Incurred-to-Date:	$362,186,350
Current Contract Value[1]:	$619,400,447	Incurred in Jan.:	$12,125,770

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

DBE Participation	
Actual DBE Participation:	$3,637,221
DBE % Attained:	0.75%

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	$136,476,447



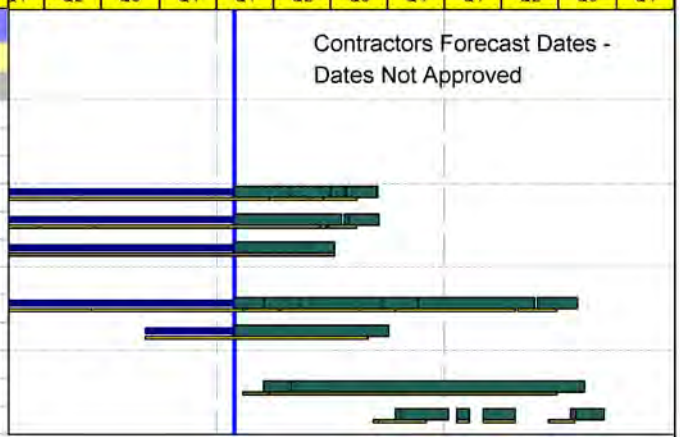
Pay Application #60 for November 2014 and Pay Application #61 for December 2014 were submitted by KIWC and reviewed by HART this month. KIWC submitted Progress Payment #62 for January 2015 and this Pay Application review was completed at end of the month. Progress Payment #63 for February 2015 will be submitted in March.

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.
- A second set of travelers will be incorporated at the Balanced Cantilever System area in order to alleviate potential schedule concerns.

January 2015 Update — Data Date: 30-Jan-15, Printed On: 11-Feb-15 11:19

Activity Name	Start	Finish
Total	08-Mar-12 A	12-Sep-16
West Guideways & Structures	08-Mar-12 A	12-Sep-16
W. Oahu/Farrington Highway (WOFH) - Section 1	08-Mar-12 A	12-Sep-16
W. Oahu/Farrington Highway Guideway	08-Mar-12 A	12-Sep-16
Kiewit WOFH Summary	08-Mar-12 A	12-Sep-16
Foundations	08-Mar-12 A	18-Sep-15
Drilled Shafts	23-Apr-12 A	14-Sep-15
Columns	21-May-12 A	18-Sep-15
At Grade	08-Mar-12 A	08-Jul-15
Guideway	29-Jan-14 A	01-Aug-16
Precast Segment Erection	29-Jan-14 A	01-Aug-16
Balanced Cantilever Segments	10-Sep-14 A	02-Oct-15
Trackwork	17-Mar-15	12-Sep-16
Direct Fixation Trackwork	17-Mar-15	11-Aug-16
Third Rail	14-Oct-15	12-Sep-16



CRITICAL PATH ISSUES:

- HART continues to work to resolve construction right of entry for the UH LCC campus.
- Production rates for span erection continue to reside near critical path. Since KIWC re-sequenced segment erection work in October 2014, planned rates are being met at an average of 5 spans per week.

WORK PROGRESS:

WOFH Status as of 2/20/15

Utility Status	Qty to Date	Final Qty	% Complete
Water Line	8,418	9,348	90.1%
Sewer Line	550	570	96.5%
Fuel Line	340	340	100.0%
Gas line	1,498	1,591	94.2%
Drainage Line	3,325	5,166	64.4%
Elec/Telecom	14,791	21,374	69.2%
Street Lights	5,850	8,357	70.0%
Traffic Sig/ITS Duct bank	3,936	10,802	36.4%
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	201	221	266	75.6%
Columns	141	140	266	53.0%
Segment Casting	2,270	2,849	3,163	71.8%
Spans Stressed	89	112	266	33.5%

* The planned values are based on WOFH REVISED SCHEDULE REV C 2014.04.08 (with data date of October 25, 2013), which was Accepted as Noted on May 9, 2014.

Activities this Month:

Earned Value: 60.4% *[(Total Achieved to January 2015 ($359 million) + Projected February 2015 Period ($16 million))/Total Contract Including Executed Change Orders ($621 million)]. Planned Value: 69.5%*

Shaft/Column

- Performed drilled shaft construction, drilling, and placed concrete for a total of 8 drill shafts. Placed concrete for 3 columns. Completed the drill shaft repair for Shaft 145.

Guideway Segment Erection

- Eastbound heading segments were erected for Span 107 through Span 113. Westbound heading segments were erected for Span 32 through Span 23.

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.

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 concrete placement. KIWC will complete the Drill Shaft repair for 144 clearing the way for column construction.

Guideway Segment Erection

- Segment span erection will continue from Span 23 westbound towards East Kapolei Station and from Span 113 eastbound along Farrington Highway.

Activities this Month (continued):

Balanced Cantilever Structure

- Completed installation of travelers at Pier Table 253 and installed initial formwork for cast in place segment. Placed concrete for Pier Table at Pier 254. Constructed Pier Table for Pier 255.

Track Construction

- Started welding of track rail adjacent to the Maintenance and Storage Facility (MSF). Completed construction of concrete plinths and installed rail for the Double Crossover at Spans 78 and 79.

Precast Yard

- Precast Yard performed daily segment and sound wall casting, averaging 12 segments per day or 60 segments per week.

KIWC/Third-Party Coordination

- Coordination continued with HECO and KIWC to resolve conflicts with utility relocation.
- Awaiting HART execution of Change Order 063 with Leeward Community College regarding the procurement of portable classrooms.

Looking 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 set formwork and cast-in-place segments for the balanced cantilever at Pier 253. Travelers will be assembled at Pier Table 254 and construction will continue for the Pier Table at Pier 255. KIWC will install formwork/rebar and will place concrete for Pier 256.

Track Construction

- KIWC will continue to weld track rail which will be stockpiled until track ballast is placed or track ties are installed.

Precast Yard

- Production of segment casting and sound walls are expected to continue at a rate of 12 segments per day. At this rate, 74% of the total segments should be cast by the end of March.

KIWC/Third-Party Coordination

- Continue to resolve conflict construction and traffic issues with third-party agencies (HDOT, DTS, HECO and Hawaiian Telcom).

KEY ISSUES:

- **Design Completion Schedule** – The Project's design schedule continues to be tracked closely by HART. Comment Disposition and Over-the-Shoulder Meetings also continue to occur. As of mid-February, 104 of 127 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** – In order for KIWC to begin work at the LCC Station Area, four (4) portable buildings need to be relocated to another location within the campus. Change Order 063, Procurement of LCC Portables, received conditional approval from the HART Board in January 2015. In February, additional pricing was received and the Board will be briefed on the results.
- **Construction Production/Baseline Schedule** – Meeting the project's schedule will continue to be a challenge for the project. A re-sequenced baseline schedule was submitted to HART in December 2014 showing more realistic construction durations. HART provided comments in January 2015 and KIWC is in the process of addressing those comments and resubmitting the schedule.
- **HDOT Traffic Signal Betterments** – HDOT has requested additional street light betterments beyond KIWC's base scope of work. These requests have prevented KIWC from finalizing their design and obtaining approval from HDOT. HART is still working with HDOT to remove non-project critical items and it appears a positive compromise is near; betterments have been acknowledged.
- **Balanced Cantilever System Maintenance of Traffic (MOT) Conflicts with Hawaiian Dredging** – KIWC has assembled the first set of Upstream (eastbound) and Downstream (westbound) Travelers at Pier Table 253. To complete segment casting heading eastbound, KIWC will need one H1 westbound lane closure. HDOT simultaneously has a project which requires three H1 westbound lane closures. KIWC is currently working with HDOT and Hawaiian Dredging to implement an S-curve design where both parties can operate with the needed lane closures and where traffic is adequately directed. Coordination is going well and this is no longer an issue.
- **U.S. Army Corps of Engineers (Corps) Section 404 Permit**– In order for KIWC to begin early site access and drilled shaft work at the Pearl Highlands Station, HART will need to obtain a Section 404/401 Permit and a Hawaiian Coastal Zone Management (CZM) Permit. These permits will allow KIWC to impact certain Waiawa Stream Tributary and Waiawa Stream areas. The 401 Permit is currently in review by the State Department of Health and the CZM Permit will follow. HART has currently received a conditional 404 Permit. Attention to prioritize both permits has already been communicated to the permitting agencies. KIWC plans to begin Phase 1 (diversion of stormwater pipes into Waiawa Stream) work by March 2015 and drilling of guideway shafts at Pearl Highlands Station by May 2015.

KEY QUALITY ISSUES:

- **Span 67 Damage and Repair** – During the erection process of Span 67, the underside of Segments 67-11 and 67-12 were damaged due to unbalanced support from the temporary bearings. NCR 00144 was opened on June 17, 2014, to address this issue. In February 2015, KIWC completed the temporary falsework needed to support and slide Span 67 from its current position. The span is expected to be de-stressed and the segments replaced. Span 67 will be re-stressed and brought back into its original location in March 2015. The replacement is being done to ensure the segments meet HART's high quality standards.
- **Drill Shaft Quality** – HART received four additional drill shaft Crosshole Sonic Logging (CSL) Reports in February 2015. Two of the drilled shafts were found to have velocity reductions outside of the acceptable design criteria limits potentially because concrete was segregated during concrete placement, and two of the shafts had no issues. Of the 215 drilled shafts that have been tested to date, HART has requested that Kiewit provide additional testing and/or modifications to 40 shafts to ensure that the shafts meet the specifications. KIWC continues to have weekly Drill Shaft Quality Meetings with HART to discuss testing results, quality, the concrete mix, and methods for repair.
- **Drill Shaft Repairs** – Of the 40 drill shafts that are being reviewed in detail, two 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. KIWC completed repairs at Shaft 145 and began repair work at Shaft 144. The repair at Shaft 144 will

continue until the end of March 2015 and KIWC can continue with column construction as the span continues its approach eastbound on Farrington Highway toward West Loch Station.

- **Consistent Span Stressing Trends –** In mid-February, KIWC had stressed 10 spans. KIWC has maintained this positive trend and momentum from previous months, stressing 9-11 per month. KIWC has now left the Ho'opili area and has reached Farrington Highway in February as the span erection proceeds eastward towards West Loch Station. KIWC should reach East Kapolei Station by April 2015.
- **Pre-Cast Segment Progress/Quality –** The Casting Yard has been very consistent in producing approximately 60 segments per week and is currently 71.8% complete with segment production for the overall project. 2,270 segments have been cast to date. WOFH segment casting should be completed by June 2015. Although 93 of the total 296 NCRs (31.4%) 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 were 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 six NCRs have been closed in February 2015. Of the six, one was related to pre-cast segment issues, one was design related, one was for the superstructure, and three were related to drill shaft issues.
- **Concrete Plinth Quality –** KIWC completed work on the concrete plinths under the double crossover east of Ho'opili Station on Spans 78 and 79. This is the first of four double crossovers for this project. HART has inspected the quality of the work performed and no issues were found. The trackwork will continue to be surveyed and placed on its final alignment.
- **Flash Butt Track Welding Operations –** Work began on welding trackwork north of the Maintenance and Storage Facility where approximately 439 welds are to be completed. KIWC is currently achieving 20-25 welds per day and this is in-line with the current baseline schedule. KIWC will continue to report completed quantities to HART on a weekly basis.
- **Quality Assurance and Buy America Audit –** In mid-February, KIWC was audited by HART in areas of management responsibility, design control, purchasing, document/process control, product identification and traceability, inspection, handling and storage of equipment, non-conformance, corrective actions, quality record, and training. KIWC's performance was found to be commendable and no major issues were found.

WOFH NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
296	211	85

PROJECT PICTURES:

Falsework setup by Column 113, Work Area 2.

Erecting guideway segments for Span 26 (westbound).

Span 78 double crossover plinth concrete placement, Work Area 1.

Installation of manhole VMH 235-1 for Conflict 2-582-M1, Work Area 2.

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
Projected Substantial Completion (Construction): November 2017

Project Description: Architectural and engineering services for the design of three (3) transit stations situated along 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 consultant is currently incorporating value engineering changes into the station designs as directed by HART. The consultant and HART are closing out remaining issues including design interfaces and third party approvals in preparation for an April 2015 construction advertisement.

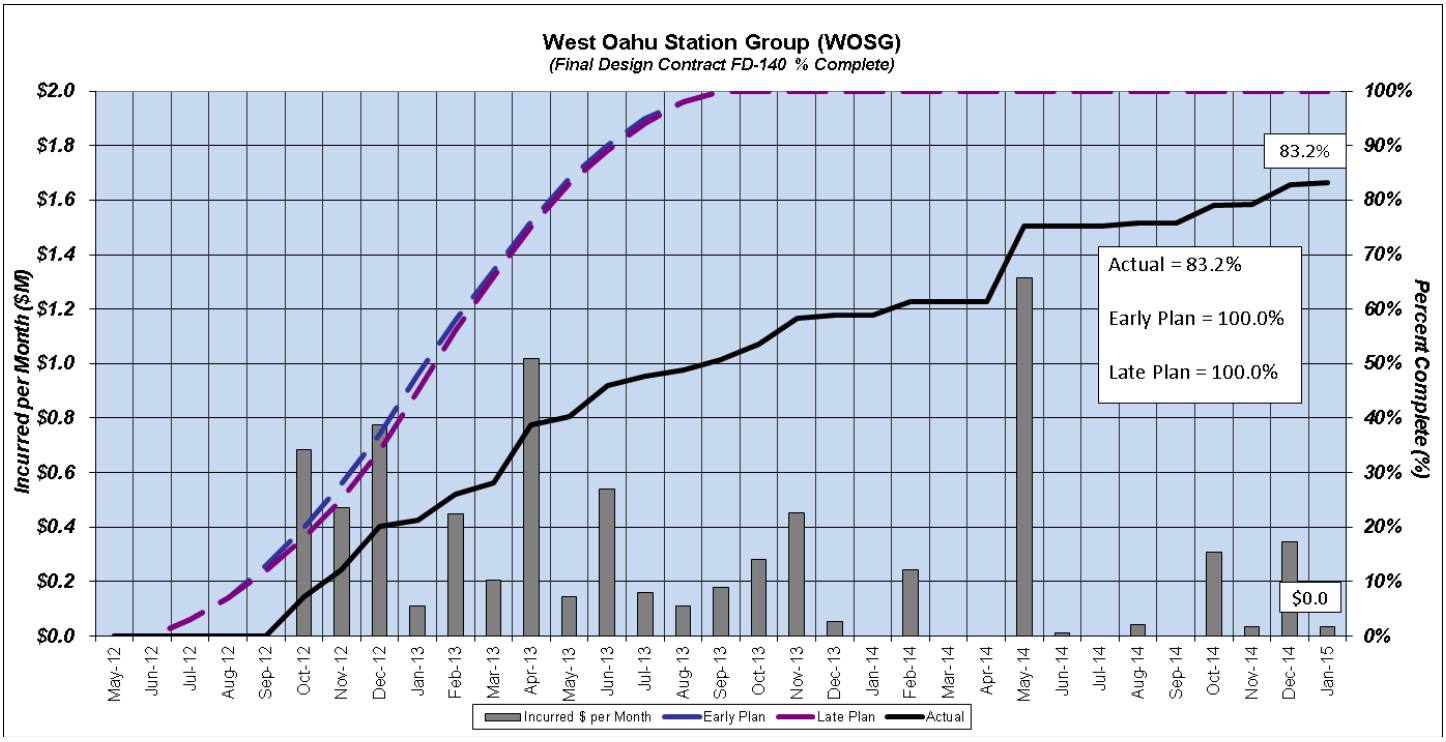
COST INFORMATION:

Original Contract:	$7,789,000	Incurred-to-Date:	$7,958,160
Current Contract Value[1]:	$9,560,305	Incurred in Jan.:	$33,055

[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%

January Change Orders/Amendment		
Change No./Amend	Description	Amount ($)
None	---	---
	Cumulative to Date	**$1,771,305**



The closeout of the WOSG contract is currently 14 months behind schedule due to design interfaces with other HART contracts, ongoing value engineering efforts, and a reorganization of the WOSG construction solicitation package. The schedule for the WOSG design has been extended to accommodate these additional efforts. Actions to minimize this delay are discussed below.

SCHEDULE:

CRITICAL PATH ISSUES:

- HART is overseeing and expediting value engineering design efforts to save construction costs on these three stations. These changes will be consistent with value engineering changes already incorporated into the FHSG bid documents.
- HART is accelerating URS' completion of the WOSG construction documents in anticipation of an April 2015 construction solicitation.
- HART is proactively facilitating interface resolution with the CSC, WOFH and E/E contracts to ensure consistency and integration of these designs.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 90%.
- Interfacing design with CSC, WOFH and E/E contracts.
- Incorporating value engineering changes.
- Coordinating with private developer and utility companies to establish services to Ho'opili Station.

Look Ahead:

- Complete design and value engineering efforts.
- Document design interface agreements with CSC, WOFH and E/E contracts.
- Obtain third-party approvals.
- Finalize agreements with adjacent land owners.
- Implement any additional value engineering opportunities identified.
- Prepare construction solicitation package.

KEY ISSUES:

- Coordinating with HDOT to resolve significant policy level design review comments.
- Tracking resolution of interfacing designs and managing risks associated with misaligned design schedules.

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
Projected Substantial Completion (Construction): August 2017

Project Description: Architectural and engineering services for the design of three (3) transit stations situated along 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: The FHSG construction package was issued for bid in December 2014. Bids are scheduled to be opened on March 3, 2015.

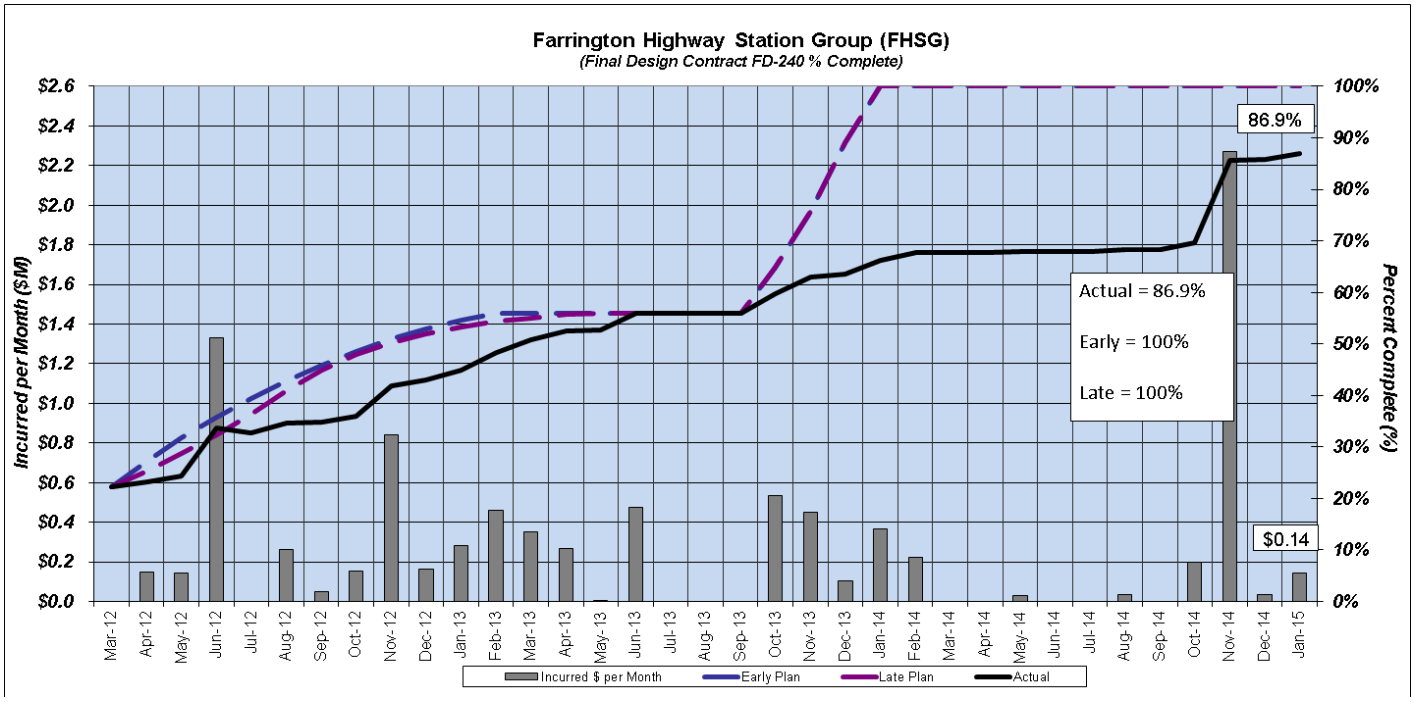
COST INFORMATION:

Original Contract:	$9,300,696	Incurred-to-Date:	$12,332,344
Current Contract Value[1]:	$14,198,045	Incurred in Jan.:	$141,299

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

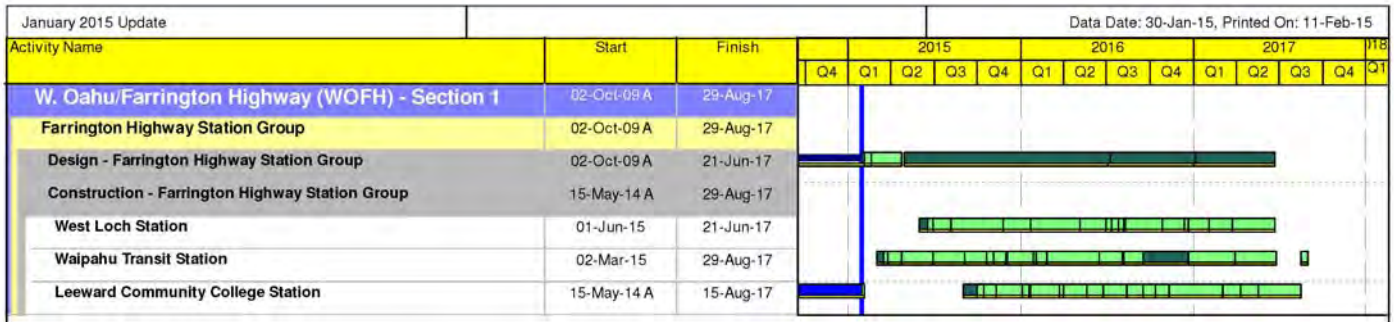
DBE Participation	
Actual DBE Participation:	$258,611
DBE % Attained:	4.7%

January Change Orders/Amendments		
Change No./Amend	Description	Amount ($)
CA005	Add'n of Bike Ramps	$17,744
CA006	Add'n 30' Guideway Sec WL &W	$57,000
CA007	Mod to WL and W Girder Design	$38,000
	Cumulative to Date	**$5,010,093**



The FHSG contract is 10 months behind schedule due to a change in the final design consultant, design interface issues with other HART contracts, value engineering changes, and a reorganization of the active FHSG construction solicitation package. The schedule for the FHSG design has been extended to accommodate these additional efforts. Actions to minimize the impact of this delay are discussed below.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is proactively facilitating the finalization and documentation of interface agreements between the FHSG, CSC, WOFH and E/E contracts to ensure consistency in these designs prior to construction.
- HART is coordinating and forecasting construction access milestones between interfacing contracts.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 80%. 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 nearly complete.
- Finalizing design interface agreements with all interfacing partners.
- Pursuing approvals from third parties.

Look Ahead:

- Bids for the FHSG construction contract are scheduled to be opened on March 3, 2015
- Obtain all third-party approvals.
- Obtain remaining construction permits and rights of entry.
- Document design agreements with interfacing partners.

KEY ISSUES:

- Tracking resolution of designs that interface with FHSG prior to construction.
- Tracking construction access handoff dates with WOFH contractor.
- Obtaining access to properties required for construction at West Loch Mauka and Leeward Community College.

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: The MSF contract substantial completion date has improved from a 10 calendar day slip to 6 calendar days late. Work is continuing to progress without CSC final design through HART direction and contractor cooperation.

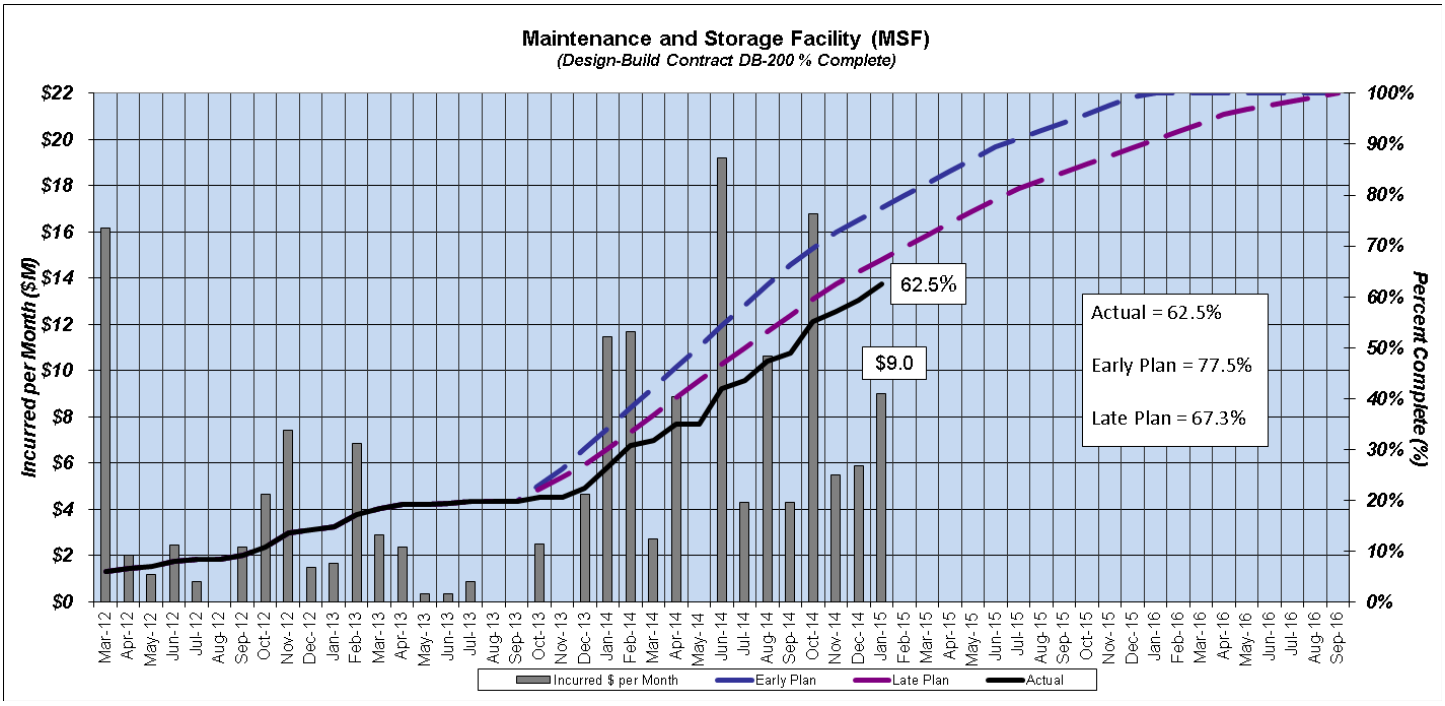
COST INFORMATION:

Original Contract: $195,258,000	Incurred-to-Date: $171,594,297
Current Contract Value[1]: $274,358,008	Incurred in Jan.: $8,997,974

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

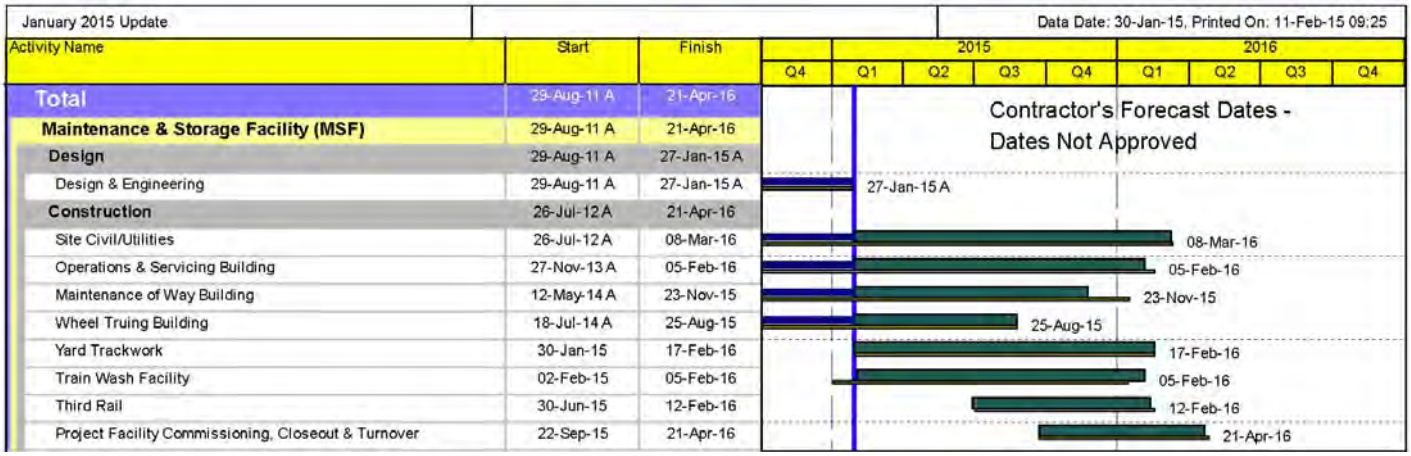
DBE Participation	
Actual DBE Participation:	$145,819
DBE % Attained:	0.08%

January Change Orders		
Change No.	**Description**	**Amount ($)**
None	---	---
	Cumulative to Date	**$79,100,008**



SCHEDULE:

- The MSF substantial completion has slipped from April 15, 2016 to April 21, 2016 (based on the January 2015 schedule update).



CRITICAL PATH ISSUES:

- The MSF contract substantial completion date is indicating 6 calendar days late. This delay is due to weather that impacted construction operations. KKJV and HART are working to mitigate the impacts to the critical path.
- Addressing yard reconfiguration interface with Core Systems Contractor.
- Scheduling work related to test track and functional track to support program opening dates.
- Coordination with abutting main line contract for completion of track work in west yard and utilities and site access in the east yard.

MSF Construction Status as of 2/28/15	
Element	% Complete
OSB	50%
MOW Building	42%
WTB	45%
Rail Procurement	92%

WORK PROGRESS:

Activities this Month:

Earned Value: 66.3% [(Total Achieved to January 2015 ($172.6 million) + Projected February 2015 Period ($9.25 million))/Total Contract Including Executed Change Orders ($274.3 million)]. Planned Value: 70%

Yard/Utilities

- Installing/testing site electrical, water, sewer and drainage systems.
- Installing conduit for systems, communications, train control, traction power, site electrical and exterior lighting.
- Commenced with installation of rail turnouts in the yard.
- Installing track subdrain and ballast material at west side of S1-10 track.
- Installing light pole foundations.

Operations and Servicing Building (OSB)

- Installing metal framing.
- Installing roof.
- Placing concrete for OSB elevated slabs.
- Installing rail car lifts.

Maintenance of Way (MOW)

- Installing roofing materials.
- Erected structural steel trusses between tilt-up panels.
- Installing interior concrete multiple unit (CMU) walls.
- Installing roof/floor pan decking.

Wheel Truing Building (WTB)

- Installing slab on grade.

Look Ahead:

- OSB and MOW elevated slab and roofing.
- Installation of traction power and system duct banks (phase 4).
- WTB structural steel and roofing.
- Metal framing/curtain wall at OSB and MOW.
- Erection of retaining walls.
- Site utilities installation/testing.
- Track subdrain.
- Track subballast/ballast.
- Track installation.

Activities this Month (continued):

- Commenced installation of structural steel for roof.

Rail Procurement and Installation

- Receiving materials and mobilizing crews for installation.
- Distributing rail materials to WOFH.
- Commenced installation of rail turnout SY-37.

Administration

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

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 are being worked out through the Request for Interface Data process.
- **Joint Occupancy with Core Systems Contractor –** details are being worked out for systematic release of areas and infrastructure whereby the Core Systems Contractor can commence work in a safe and systematic manner.
- **Change Order Negotiation –** as stated above, late and changing requirements relative to infrastructure necessary to support Core Systems' evolving design has created a back log of changes. HART is coordinating with interfacing contractors developing different options to mitigate potential cost and schedule impacts.
- **WOFH West Yard Lead Retaining Wall –** previous delay associated with ROW issues impacted the completion of yard grading and utility installation in support of track work and electrical service to the site. HART resolved the issue in December 2014 and gave the WOFH contractor clearance to start construction activities in early January 2015.
- **Design, Procurement, and Installation of Derailer –** This is a long lead item and has the potential to impact completion if pricing and technical issues are not resolved in a timely manner.
- Resolution of potential EMF interference between low voltage power and automatic train control systems within yard electrical trenches.
- Scheduling HECO incoming power duct bank inspection and installation of service cables.
- Defining access and internal movement requirements for rail car delivery, assembly, and transfer to storage.

KEY QUALITY ISSUES:

One NCR remains open concerning adhesive used for Thermoplastic Olefin (TPO) installation. Expected to be resolved in an "Accept As Is" disposition.

MSF NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
24	23	1

PROJECT PICTURES:

Placing concrete encasement for comm, train control and traction power duct bank at MOW.

Placing ballast material at western end S track.

Installing track subdrain at the midsection of S-1-10 track.

Installing hydraulic cart lift boxes at M 6 track.

Install No. 6 turnouts at storage track.

MOW CMU wall in progress.

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 right of entry access issues have been resolved at UH Urban Gardens and Aloha Stadium. Shaft installation along the KHG guideway alignment has resumed at two locations: Shaft 271 (Pearl Highlands) working eastward, and the group of shafts from 415 to 420 (Aloha Stadium) which will be completed as a group before working westward. Final Test Shaft, TS 15A, was installed and is pending CSL testing.

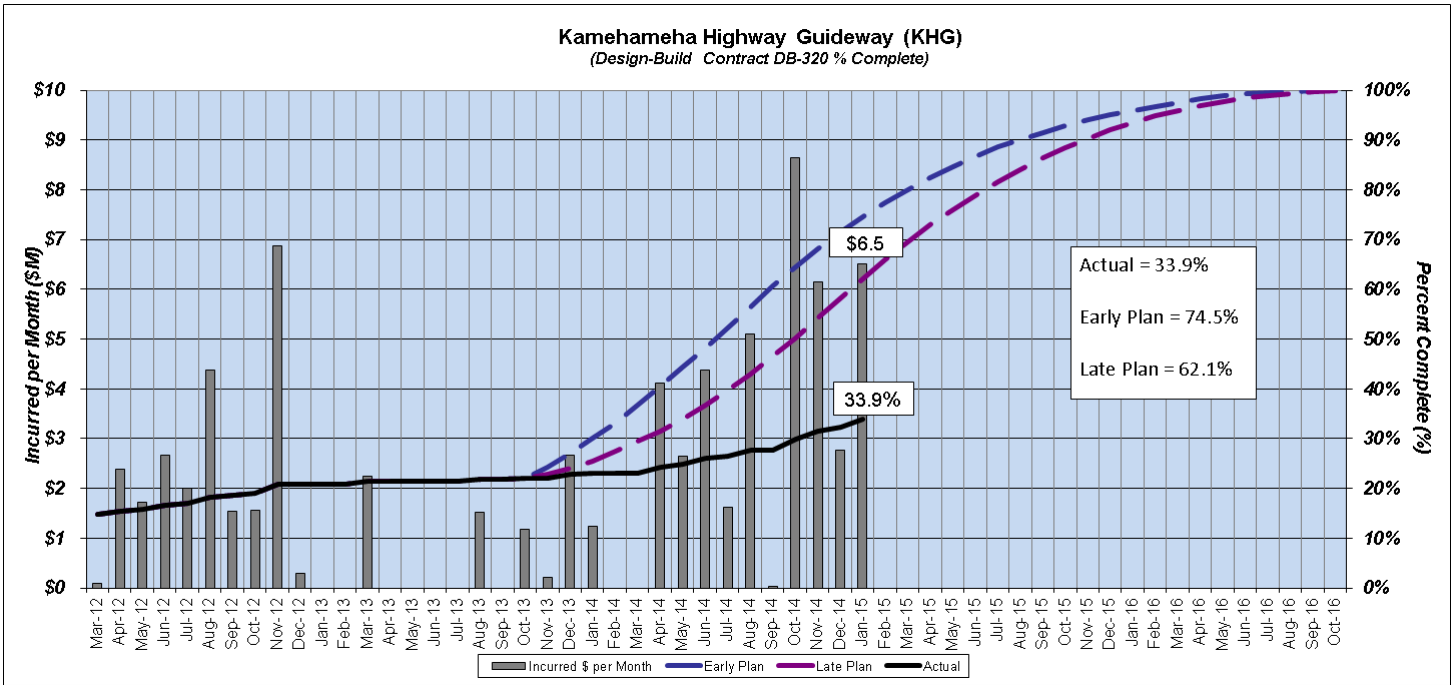
COST INFORMATION:

Original Contract:	$372,150,000	Incurred-to-Date:	$131,817,119
Current Contract Value[1]:	$388,515,363	Incurred in Jan.:	$6,500,000

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

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

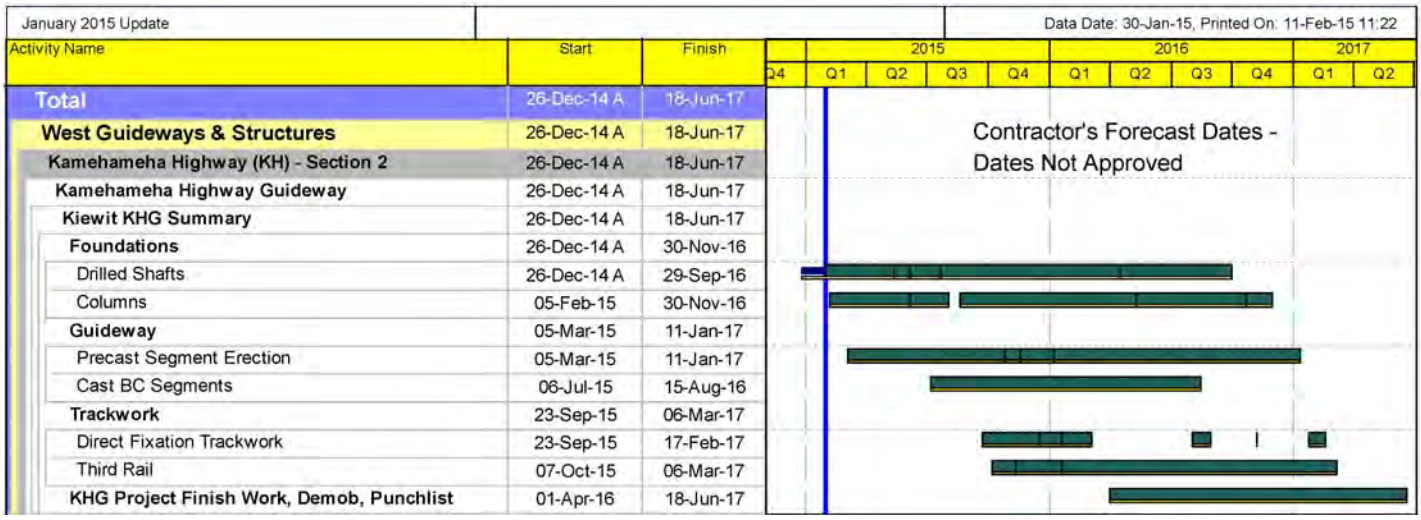
January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$16,365,363**



- Progress #39 (October) and all schedules following this are on HOLD pending schedule and schedule of milestones revisions.

SCHEDULE:

- The accepted re-baselined schedule dated Oct. 28, 2013 is no longer valid, and HART has requested a recovery schedule showing how KIWC would achieve the currently agreed upon substantial completion date of Sept. 16, 2016. KIWC initially proposed a list of mitigation measures that would allow recovery, but has since notified HART that the substantial completion date is no longer achievable. They have provided a draft schedule.
- HART has reviewed the schedule and requested re-submittal via change order process.



CRITICAL PATH ISSUES:

- Third-party dry utility relocation durations and lack of schedule certainty continue to affect the critical path. Elevated meetings with HECO are helping to resolve some of the potential schedule issues previously identified.
- Utility easements: the Design-Builder has identified 14 locations that are believed to require permanent easements for relocated utilities. KIWC and HART are working together to resolve this issue.

WORK PROGRESS:

KHG Construction Status as of 2/27/15

Utility Status	Qty to Date	Final Qty	% Complete
Water Line	3,547	4,362	81%
Gas Line	11,069	12,641	88%
Sewer Line	514	1,077	48%
Drainage	536	2,081	26%
Elec/Telecom	6,728	19,455	35%
Signals/ITS/ Lights	8,115	18,486	44%

Structure Element	Total to Date	Planned to Date*	Total Qty**	% Complete
Shafts	4	28	156	3%
Columns	0	4	156	0%
Segment Casting	0	81	2,044	0%
Segment Erection	0	69	2,044	0%
Spans Stressed	0	4	155	0%

* The planned values are based on KHG Revised Schedule Rev E 2014-04-22, which was accepted as noted on April 22, 2014.
**Total Quantity based on KIWC interim plans. Final design has not been completed.

Activities this Month:

Earned Value: 34.7% [(Total achieved to September 2014 ($108.7 million) + projected October2014 to February 2015 periods ($25.1 million))/Total contract including executed Change Orders ($385 million)]. Planned Value: 65.9%

Shaft/Column

- Test Shaft 15A is ongoing in Phase 9.
- Shaft access was installed in Phases 1 and 13 for shaft construction.

Look Ahead:

Design Progress

- HART and KIWC are working together to complete final design. To date, 24 of 46 drawing packages have been issued for construction.

Utility Relocation

- Elevated meetings with HECO are helping to resolve some of the potential schedule issues previously identified.

Activities this Month (continued):

Utility Relocation Progress

- Gas and water line relocations are ongoing in Phases 5, 6 and 12.
- The relocation of HECO electrical lines and Hawaiian Telcom, Oceanic Time Warner and Intelligent Transportation Systems (ITS) duct banks is occurring in Phases 4 through 8.
- Joint use poles are being installed in Phase 5.
- Conflict 872-V1 has been completed.

Safety and Security Certification (CIL)

- 682 of the expected 800 CILs have been submitted and verified to date.

Roadway Widening

- Roadway widening activities are ongoing in Phases 5 and 11.

Looking Ahead (continued):

Drilled Shaft Installation

- Shaft installation along the KHG guideway alignment is progressing from both ends of the project working towards the balanced cantilever at H-1.

Roadway Widening

- Roadway widening will continue throughout the alignment. The widening in front of UH Urban Gardens will follow the installation of shafts and columns in that location.

KEY ISSUES:

- **Permanent easements** – the Design-Builder has identified 14 locations that are believed to require permanent easements for relocated utilities. KIWC and HART are working together to resolve this issue.
- **HDOT betterments** – a meeting between HART and HDOT was held and betterments acknowledged by HDOT. HART and HDOT are working together to determine the path forward to resolve this issue while minimizing construction delays.
- **Schedule –** HART continues to work with KIWC to ensure a current project schedule is provided so that the project team is able to plan for and mitigate any critical path items. The revised schedule submitted on Dec. 5, 2014, was returned to KIWC with the request to re-submit as part of a change order asking for a modification to the substantial completion.

KEY QUALITY ISSUES:

- **Shafts** – As shaft construction resumes, the quality of the shafts will be closely monitored to ensure any quality issues are identified and resolved in a timely manner.
- **Sub-contractor Quality** – The Design-Builder has been asked to improve their QC/QA efforts as they relate to the work being performed by their sub-contractors.

KHG NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
40	32	8

PROJECT PICTURES:

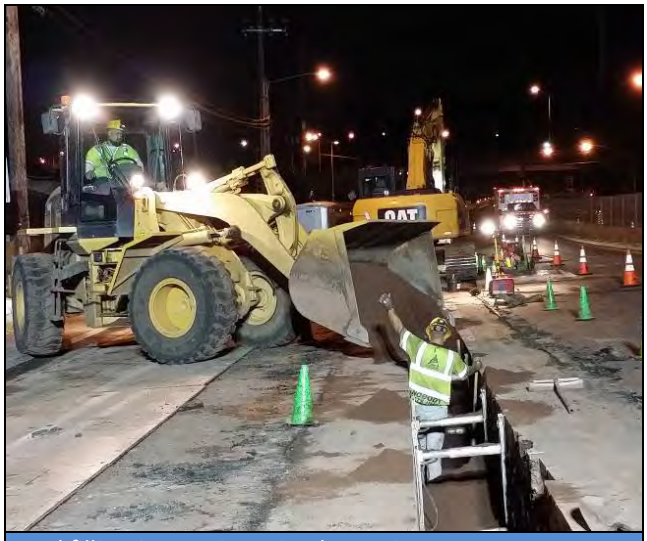
LB-36 at Shaft 271, Phase 1.

Drill rig mobilizing for Shaft 271 at Pearl Highlands.

Subgrade compaction in Phase 5.

Widening in progress, Phase 5.

Structure Demo Phase 8.



Backfilling Sewer Line B in Phase 12.

B. 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
Kamehameha Highway Stations: August 2015
Projected Substantial Completion (Construction):
H2R2 Highway Ramp: May 2016
Kamehameha Highway Stations: August 2018

Project Description: The Kamehameha Highway Stations Group FD Contract (KHSG) consists of architectural and engineering services for the design of three (3) transit stations situated along 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 is being revised to incorporate value engineering changes in preparation for a construction solicitation in mid- to late-2015. In addition, the H2R2 Ramp was broken out and expedited under a separate Design-Bid-Build construction solicitation. The H2R2 Ramp is now in active procurement.

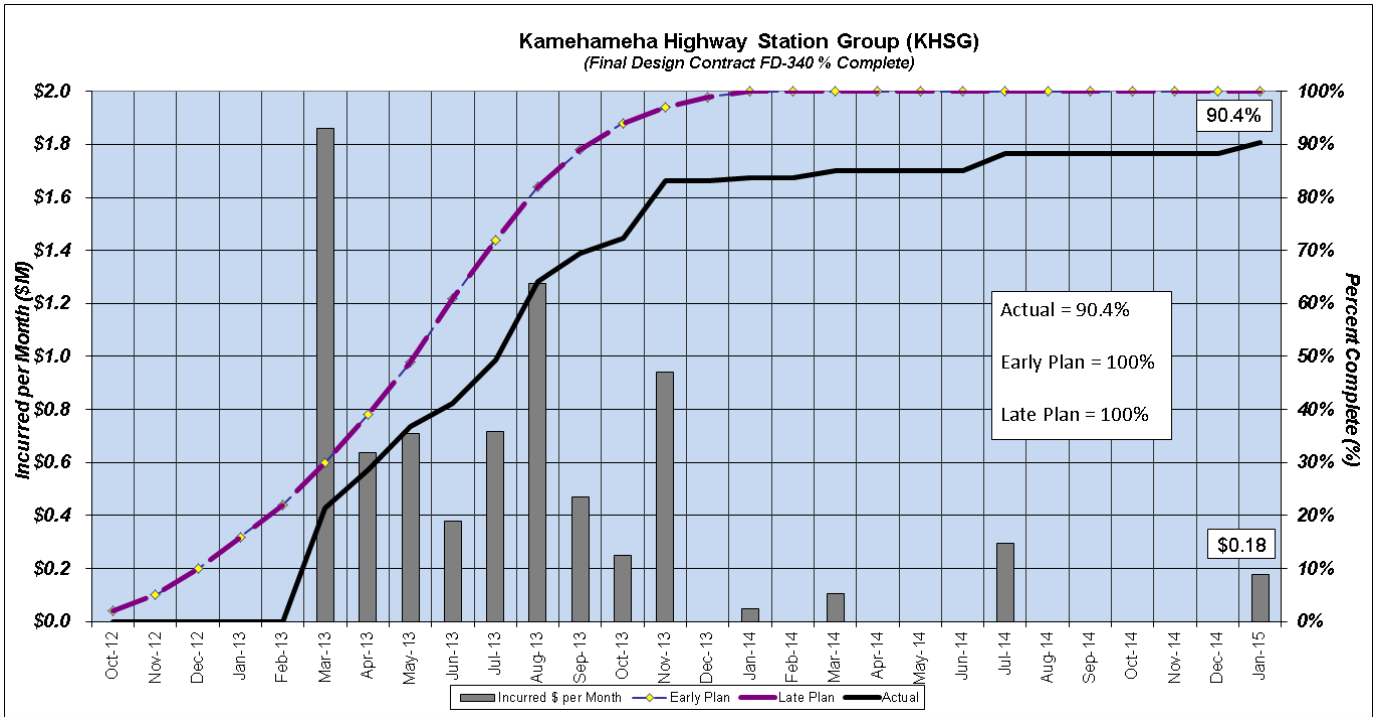
COST INFORMATION:

Original Contract: $8,702,592	Incurred-to-Date: $7,866,141
Current Contract Value[1]: $8,702,592	Incurred in Jan.: $178,795

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

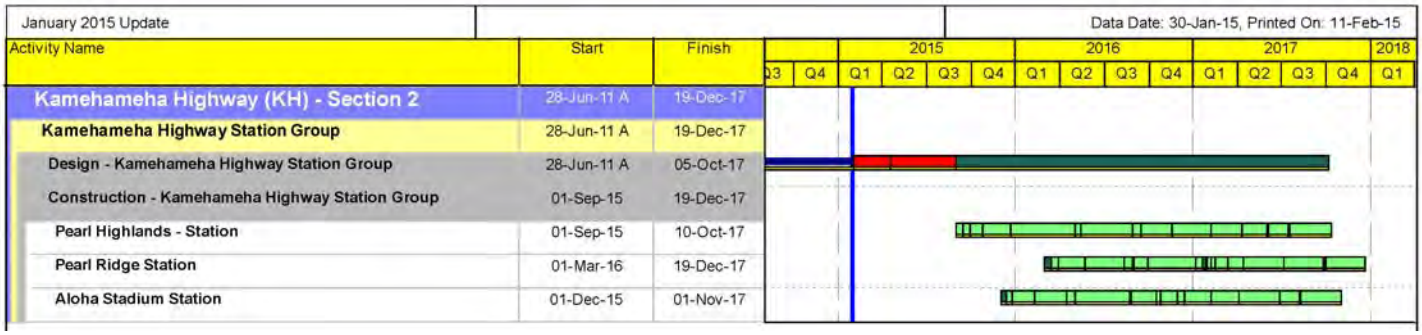
DBE Participation	
Actual DBE Participation:	$3,239,360
DBE % Attained:	37.22%

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



The closeout of the KHSG contract is currently 11 months behind its original schedule due to design interfaces with other HART contracts, ongoing value engineering efforts, and a reorganization of the KHSG construction solicitation package from its previous format in the canceled West Side Stations Group solicitation. The schedule for the KHSG design has been extended to accommodate these additional efforts.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is overseeing the final design consultant's implementation of value engineering alternatives.
- HART is proactively facilitating interface resolution with the CSC, WOFH, KHG and E/E contracts to ensure consistency and integration of these designs.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 91%.
- Interfacing design with the CSC, WOFH, KHG and E/E contracts.
- Incorporating value engineering directives from HART to save costs during construction.
- Resolving third-party comments.

Look Ahead:

- Document design interface agreements.
- Obtain third-party approvals.
- Finalize design and value engineering.
- Prepare construction bid packages.

KEY ISSUES:

- HDOT has accepted the Interstate Access Modification Report (IAMR) and has forwarded the IAMR to the Federal Highway Administration (FHWA) for approval.
- Pursuing 401/404 Permit approval from Hawai'i Department of Health (DOH) Clean Water Branch.

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
  - RFP Part 1 for DB (Qualifications): April 2015
  - RFP Part 2 for DB (Proposals): July 2015

In Construction:

- Airport Section Utilities (DBB-505 - Nan Inc.):
  - Started July 2014
- Airport 7-Piers (DBB-525 – Hawaiian Dredging):
  - Started September 2014

Projected Substantial Completion (Construction): June 2019

Project Description: The Airport Segment Guideway and Utilities contract consists of 5.32 miles of elevated transit guideway serving four (4) passenger stations, in addition to roadway widening, utility relocation, and other improvements to facilitate construction of the guideway. Two construction contracts have been split out and expedited from the larger Airport Section package. These two contracts are the expedited Airport Section Utilities and expedited Airport 7-Piers. For both of these expedited contracts, the design has been completed and construction is in progress. Therefore, the remainder of this section focuses solely on the portion of design yet to be completed and advertised for construction.

Project Overview: The delivery method for this contract is moving forward as a 2-step Design-Build (DB) procurement, which includes RFP Part 1 for Qualifications and RFP Part 2 for Proposals. A scope change is being discussed and finalized with AECOM, the final designer, to provide support in preparing the DB package. The Airport DB package is planned to include passenger stations, guideway elements, and remaining utilities within the Airport Section.

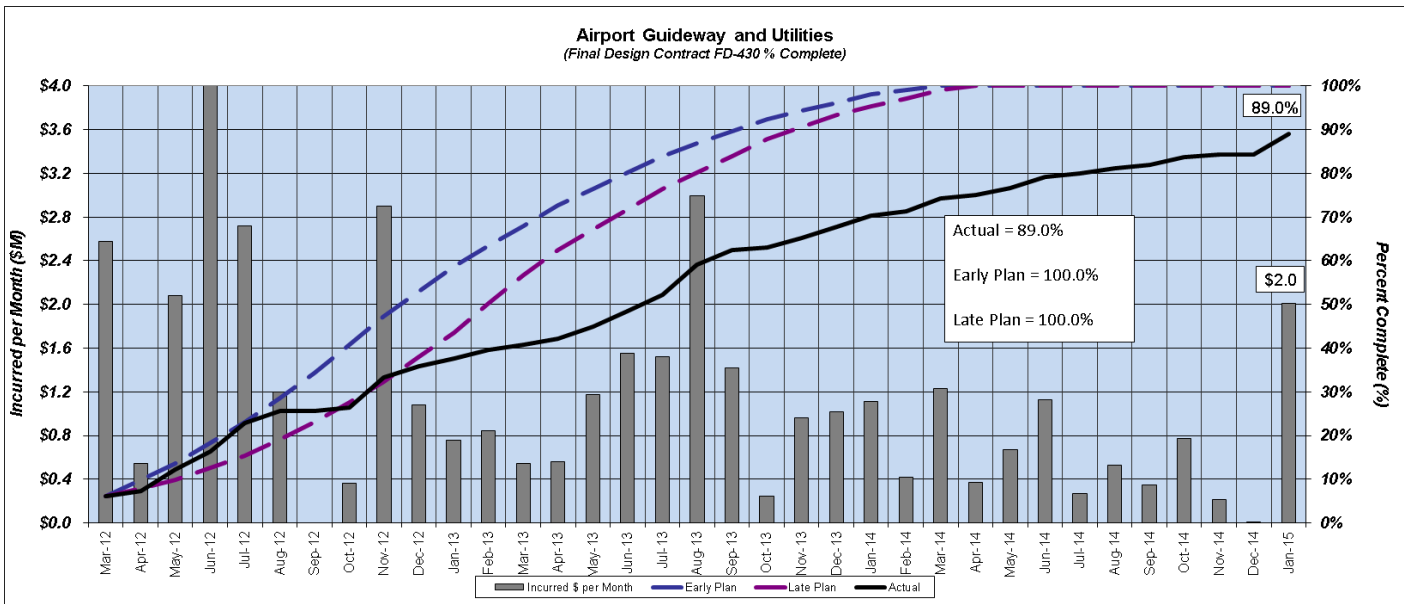
COST INFORMATION:

Original Contract:	$38,840,960	Incurred-to-Date:	$37,927,194
Current Contract Value[1]:	$42,610,832	Incurred in Jan.:	$2,011,458

[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%

January Change Orders/Amendments		
Change No./Amend	Description	Amount ($)
CA 012	Contam Soil Wayside Lubricators	$58,700
	Cumulative to Date	**$3,769,872**



Final Design was combined with the City Center Guideway and Utilities and was issued for bid in June 2014 to support the Airport and City Center Guideway and Utilities Construction solicitation in July 2014. This procurement was canceled in late 2014. Completion of the Airport Guideway and Utilities design is eight (8) months behind schedule due to interfaces with other HART contracts and coordination with third parties. Actions to mitigate this delay are discussed below. HART has decided to split the Airport and City Center Guideway packages, incorporate the respective stations into each package, and proceed with two DB packages with a potential partial DBB utility package for City Center.

SCHEDULE:

January 2015 Update — Data Date: 30-Jan-15, Printed On: 13-Feb-15 12:32

Activity Name	Start	Finish
Total	09-Nov-11 A	02-Apr-18
Airport Programmatic	01-May-12 A	04-Feb-14 A
Airport Permits	09-Nov-11 A	11-Apr-16
Design - Airport Guideway & Utilities	05-Jan-12 A	30-Jan-15
Construction - Airport Guideway	28-Apr-15	02-Apr-18

CRITICAL PATH ISSUES:

- HART is pursuing property rights to obtain all geotechnical data required to support a DB delivery.
- HART is working with AECOM to establish appropriate requirements and format for the DB bid documents.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 93%.
- Coordinating with HDOT (Highway and Airport Divisions), utility companies, U.S. Navy, HECO and other stakeholders.
- Coordinating guideway and station design with right-of-way acquisitions.
- Completed geotechnical investigations on all properties, except for Navy-owned parcels.

Look Ahead:

- Coordinate utility relocations in advance of DB package.
- Obtain third-party approvals.
- Establish project-specific requirements for DB bid package.
- Develop DB bid documents.

KEY ISSUES:

- Assessing cost and schedule impacts associated with HECO's potential requirement to reconstruct existing building electrical service connections.
- Assessing potential right-of-way impacts due to HECO requirement for additional transformers.
- Acquiring rights-of-way and rights of entry, and pursuing partial demolition of select properties.
- Coordinating with property owners and evaluating potential cost and schedule impacts to determine practicality of partial demolition and repair of select buildings.
- Finalize design for mitigation of Electromagnetic Interference (EMI) from AM radio tower near Middle Street Station.

B. Airport Section Utilities Construction

Contract No.: DBB-505
Contractor: Nan, Inc.
Contract Start Date: July 2014
Contract Substantial Completion: April 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 demolition of buildings 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. has been performing potholing along Kamehameha Highway and ITS installation work along Kamehameha and Nimitz Highways. Their field office has been setup at the Aloha Stadium property. They are awaiting approval of their traffic control plan (TCP) to contra flow traffic prior to beginning utility work along Kamehameha Highway. Meanwhile, they continue to develop and submit outstanding submittals in preparation for planned construction activities.

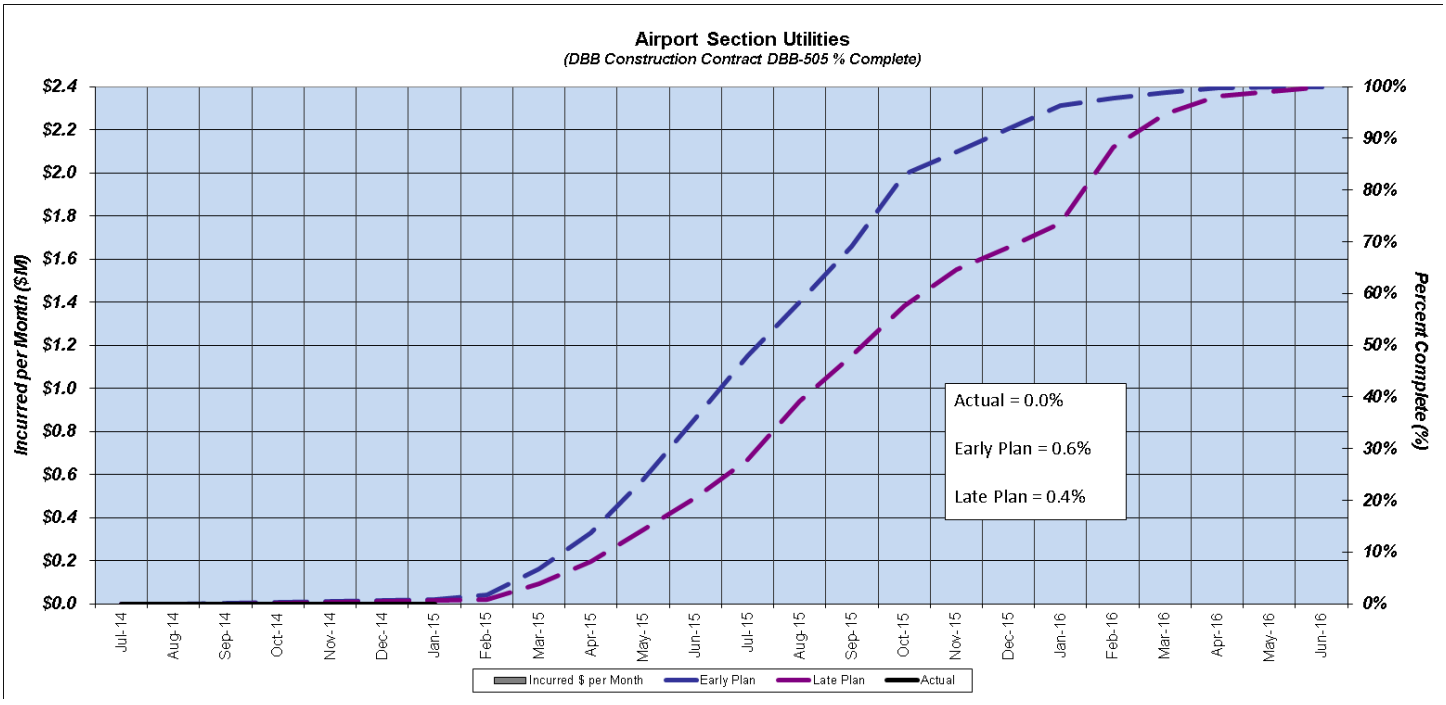
COST INFORMATION:

Original Contract:	$28,413,974	Incurred-to-Date:	$0
Current Contract Value[1]:	$28,413,974	Incurred in Jan.:	$0

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

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

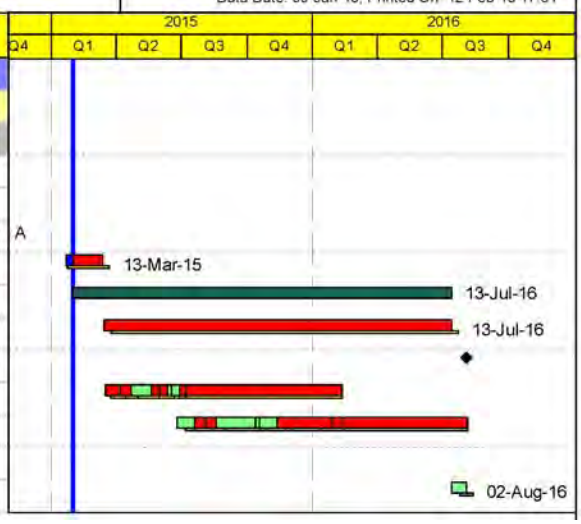
January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$0**



SCHEDULE:

January 2015 Update — Data Date: 30-Jan-15, Printed On: 12-Feb-15 17:51

Activity Name	Start	Finish
Total	30-Jun-14 A	05-Aug-16
East Guideways & Structures	30-Jun-14 A	05-Aug-16
Airport - Section 3	30-Jun-14 A	05-Aug-16
Airport Utility Relocation	30-Jun-14 A	05-Aug-16
Construction - Airport Utilities Relocation	30-Jun-14 A	05-Aug-16
Airport Utilities Relocation - Execute Contract	30-Jun-14 A	30-Jun-14 A
Permits for Airport Utilities Construction (Permits)	22-Jan-15 A	13-Mar-15
SUMM: DBB-505 - Airport Utilities - Construction	30-Jan-15	13-Jul-16
Airport Utilities Construction	14-Mar-15	13-Jul-16
Airport Utility Relocation - Substantially Complete		02-Aug-16
HART Utilities	16-Mar-15	10-Feb-16
HECO Utilities	25-Jun-15	05-Aug-16
Utility Relocation Inspection	14-Jul-16	02-Aug-16
Inspect and Accept Airport Section Utilities Relocations	14-Jul-16	02-Aug-16



CRITICAL PATH ISSUES:

- Navy right of entry (see Key Issues for additional details).

WORK PROGRESS:

Activities this Month:

Earned Value: 0.01%; Planned Value: 16.78%

- Nan, Inc. has submitted a baseline construction schedule, which has been approved. They are working on a revised baseline schedule based on a RFCR that has been issued.
- Nan, Inc.'s Environmental Management Plan (EMP), Environmental Compliance Plan (ECP), and Public Awareness and Community Relations plan have been accepted.
- NPDES permit application (transferred to Nan) and Quality Management Plan (QMP) have been submitted and are under HART review.
- Nan, Inc. continues to submit RFI and shop drawings for approvals.
- Nan, Inc. continues to pothole and install license plate reader (LPR) cameras.

Look Ahead:

- The contractor is still working to provide a proposed cost for the changes identified in Rev 1 and Rev 2 drawing changes (anticipated net credit).
- Tree relocation scope to be removed from contract and to be performed by on-call contractor. (Pending cost proposal credit)
- Contractor pending approval of TCP to contra flow traffic to begin work along Kamehameha Highway.

KEY ISSUES:

- Navy right of entry to perform work
  - Ongoing coordination with HART ROW regarding access to Navy property for construction related work.
  - Potential construction delays if Right of Entry is not granted by the Navy by March.
- Nan, Inc. is behind schedule for beginning construction work. Scope of work is being reduced as a result of further coordination, such that schedule may be adjusted.

C. Airport Section Guideway Seven Pier Construction

Contract No.: DBB-525
Contractor: HDCC/CJA JV
Contract Start Date: September 2014
Contract Substantial Completion: February 2015
Projected Substantial Completion: April 2015

Project Description: The Airport 7-piers contract consists of seven drilled shaft foundations to be installed within the HNL INTERIM CAR RENTAL FACILITY work area, which is currently in construction. This work needs to be completed in conjunction with the current construction of the HDOT Airport HNL INTERIM CAR RENTAL FACILITY; if not, the work area will not be available until early 2018, per HDOT Airport. The contractor will be installing seven pier foundations, No. 546, 547, 548, 549, 550, 551R and 552R. Construction of piers 546, 548, 549 and 550 requires relocating miscellaneous utilities. This work involves close coordination with the HDOT Airport and Kiewit, who is the contractor for the HNL INTERIM CAR RENTAL FACILITY.

Project Overview: HDCC/CJ has begun drilling operations and four (4) of the seven (7) drilled shafts were completed by the end of February. Coordination is ongoing with HDOT-A on adjusting BMPs and traffic controls based on coordination of activities with the CONRAC project. The added utility work has been negotiated and work is proceeding. The latest schedule indicates that the contract scope will be completed ahead of schedule.

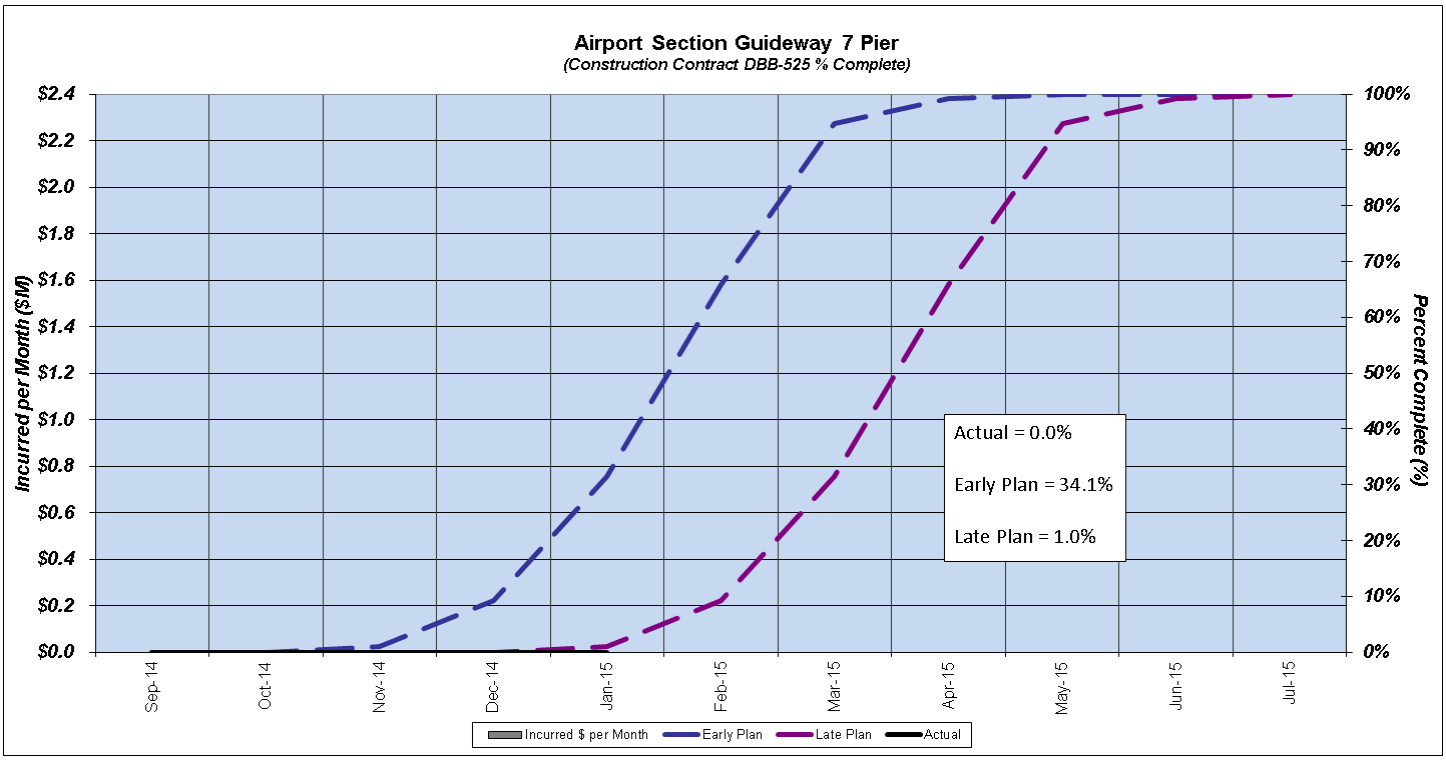
COST INFORMATION:

Original Contract:	$3,973,000	Incurred-to-Date:	$0
Current Contract Value[1]:	$3,973,000	Incurred in Jan.:	$0

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

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

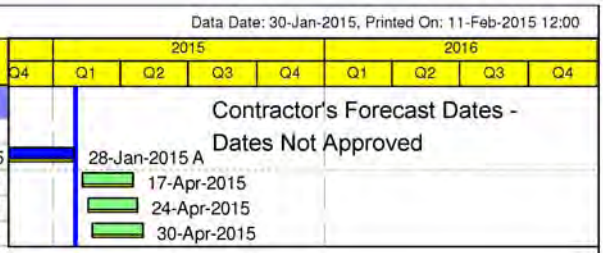
January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	$0



SCHEDULE:

January 2015 Update — Data Date: 30-Jan-2015, Printed On: 11-Feb-2015 12:00

Activity Name	Start	Finish
Total	18-Sep-2014 A	30-Apr-2015
NTP	18-Sep-2014 A	
Mobilization	19-Sep-2014 A	28-Jan-2015
Drilled Shafts	09-Feb-2015	17-Apr-2015
Pour Foundation Piers	16-Feb-2015	24-Apr-2015
Transition Zone Rebar Cages	23-Feb-2015	30-Apr-2015



CRITICAL PATH ISSUES:

- None.

WORK PROGRESS:

Activities this Month:

Earned Value: 44.45%; Planned Value: 44.45%

- Completed four (4) of the seven (7) pier foundations.
- Relocated utilities to allow for pier work.
- Attending weekly HDOT-Airport construction update meetings to monitor updates on Kiewit's construction progress (INTERIM CAR RENTAL FACILITY) at Honolulu Airport.
- Weekly meetings with HDOT-Airport INTERIM CAR RENTAL FACILITY project team to coordinate work scope and schedule access with the Kiewit INTERIM CAR RENTAL FACILITY team.
- Weekly meetings with HART/CE&I/ HDCC/CJ JV to discuss coordination and key issues.
- HDOT-A has signed off on the conformed set of A7 design drawings.
- Utility relocations and foundation work are ongoing in the field.

Look Ahead:

- Complete the remaining 3 (three) piers.
- CSL testing.
- CIL Certification.
- Responding to RFI's and submittal reviews.

KEY ISSUES:

- None.

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:

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

Projected Substantial Completion (Construction): June 2019

Project Description: Architectural and engineering services for the design of four (4) transit stations situated along 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: The recently selected delivery method for this contract is Design-Build (DB). HART intends to combine the ASG stations and Airport Section guideway into one DB construction package. Design efforts that will support a DB procurement are being prioritized, including the preparation of the DB bid package. Efforts that would support only a DBB procurement have been suspended to control costs. Work being advanced is discussed below.

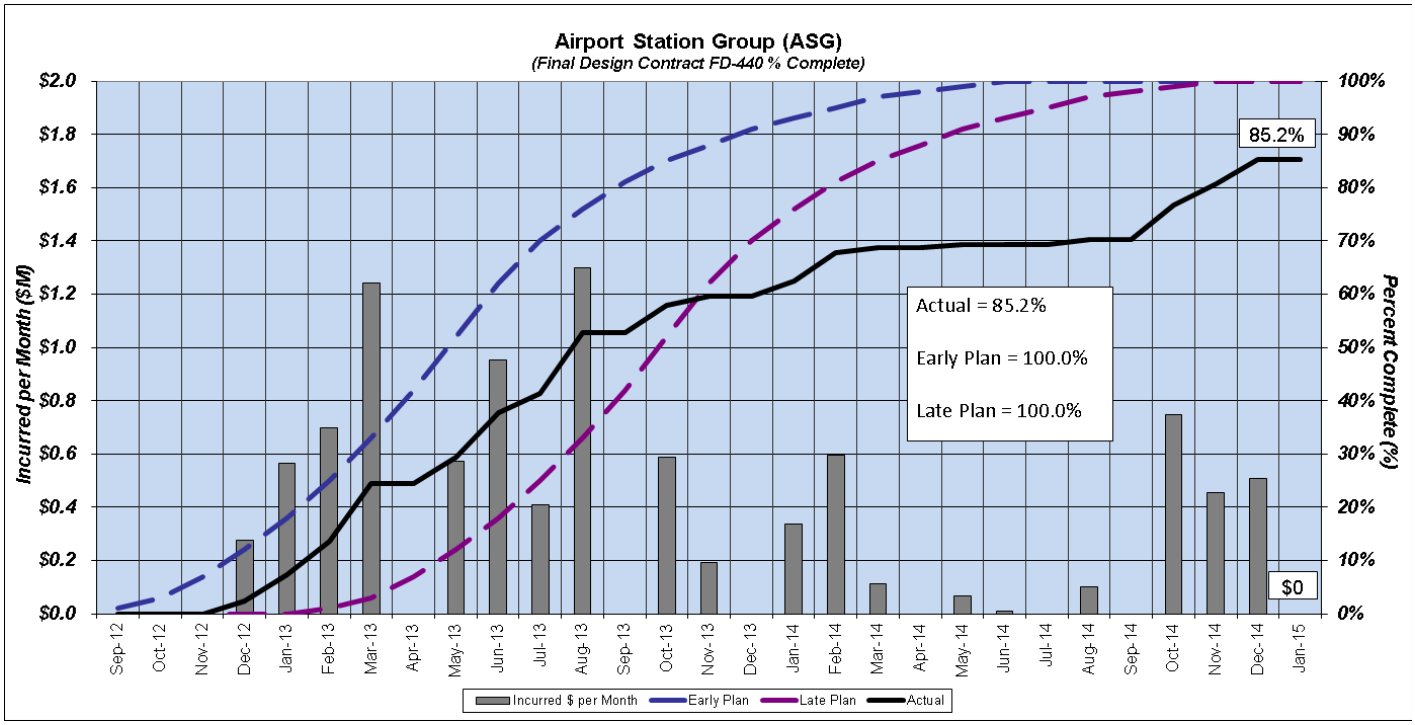
COST INFORMATION:

Original Contract:	$10,177,365	Incurred-to-Date:	$9,718,742
Current Contract Value[1]:	$11,402,205	Incurred in Jan.:	$0

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

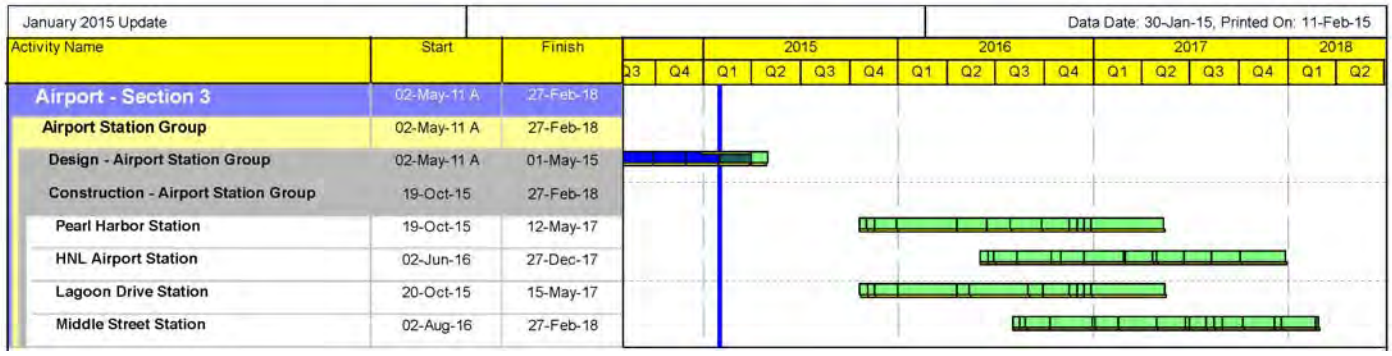
DBE Participation	
Actual DBE Participation:	$234,761
DBE % Attained:	2.31%

January Change Orders		
Change No.	Description	Amount ($)
None	---	---
	Cumulative to Date	**$1,224,840**



The closeout of the ASG contract is currently two (2) months behind schedule due to ongoing design coordination with third parties, pending rights of entry for design investigations, and design coordination with other HART contracts. Actions to mitigate this delay are outlined below.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is aggressively pursuing access to remaining properties.
- HART is working with the final design consultant to establish the requirements and format for a DB bid package.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 88%.
- Kick-off meeting held to discuss potential contract constraints for the Design-Build package and consultant's work tasks as a result of the change in procurement.

Look Ahead:

- Finalize geotechnical reports.
- Prepare DB bid package.

KEY ISSUES:

- Finalizing design options for mitigating Electromagnetic Interference (EMI) due to the proximity of the AM radio tower near the Middle Street Station.
- Acquiring parcel for the Pearl Harbor Station site by closely coordinating with U.S. Navy.

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:

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

Projected Substantial Completion (Construction): November 2019

Project Description: The City Center Guideway and Utilities final design contract consists of 4.47 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: The delivery method for this contract is moving forward as a 2-step Design-Build (DB) procurement, which includes RFP Part 1 for Qualifications and RFP Part 2 for Proposals. A scope change is being discussed and finalized with AECOM, the final designer, to provide support in preparing the DB package. The City Center package is planned to include stations, guideway, and most utility relocations within the City Center section under a DB delivery, with a likely expedited package of utility work under a separate DBB delivery.

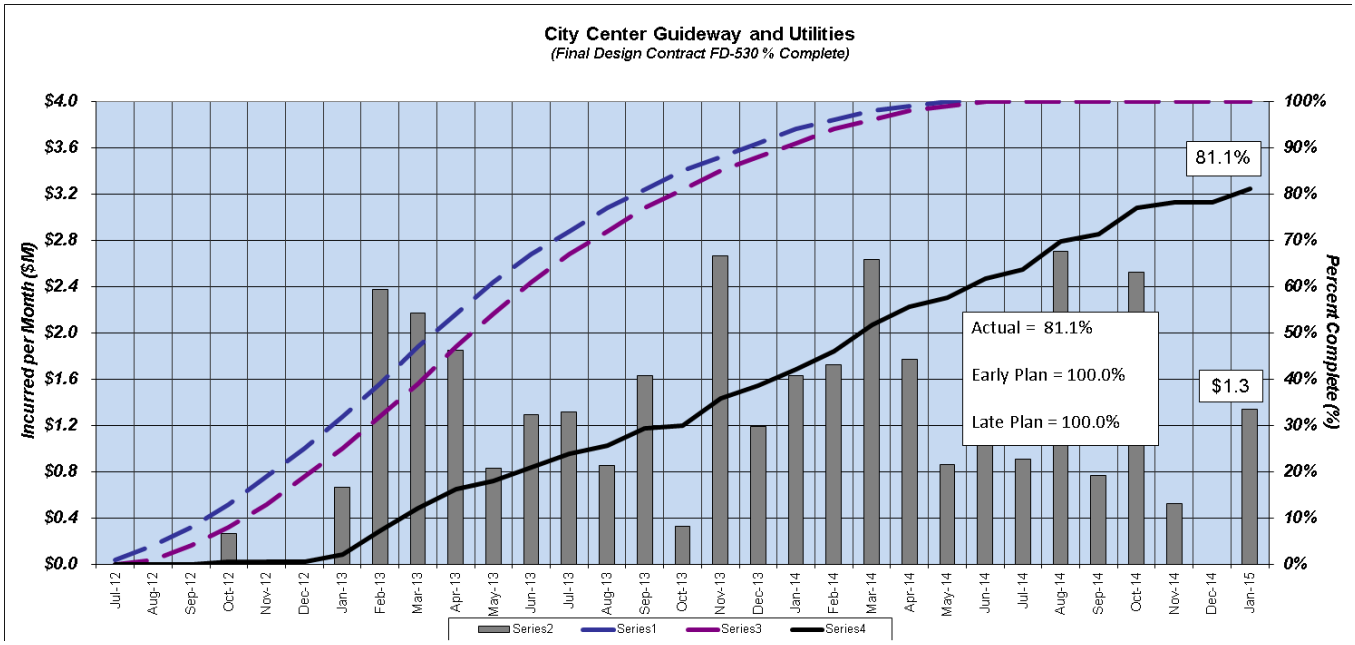
COST INFORMATION:

Original Contract: $43,948,220	Incurred-to-Date: $36,688,628
Current Contract Value[1]: $45,231,023	Incurred in Jan.: $1,342,824

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

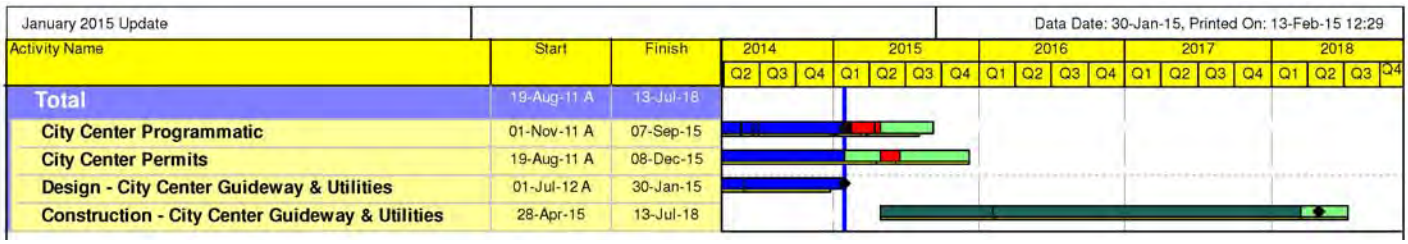
DBE Participation	
Actual DBE Participation:	$191,227
DBE % Attained:	0.44%

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



Design was combined with the Airport Guideway and Utilities and was issued for bid in June 2014 to support the Airport and City Center Guideway and Utilities Construction solicitation in July 2014. This procurement was canceled on Dec. 2, 2014. The completion of the City Center Guideway and Utilities design is currently six (6) months behind schedule due to pending rights of entry on select properties, interfaces with other HART contracts, and ongoing coordination with third parties. Actions to mitigate these schedule challenges are discussed below. HART has decided to split the Airport and City Center Guideway packages, incorporate the respective stations into each package, and proceed with two DB packages with a potential partial DBB utility package for City Center.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is evaluating whether a portion of the civil work in this contract can be expedited in a separate DBB package.
- HART is overseeing coordination between final design consultant AECOM and critical third parties.
- HART is pursuing property rights to obtain all geotechnical data required to support a DB delivery.
- HART is working with AECOM to establish appropriate requirements and format for the DB bid documents.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 86%.
- Coordinating with HDOT, HECO and other stakeholders.
- Pursuing rights-of-way and rights of entry.
- Completed geotechnical investigations at all locations, except for one parcel near Kaaahi Street.

Look Ahead:

- Obtain third-party approvals.
- Conclude geotechnical investigations for remaining properties that require right of entry.
- Determine appropriate scope to include in expedited utilities package.
- Develop requirements for DB bid package.

KEY ISSUES:

- Assessing cost and schedule impacts associated with HECO's potential requirement to reconstruct existing building electrical service connections.
- Coordinating with HECO to establish minimum working clearance requirements for electrical lines.
- Assessing potential right-of-way impacts due to HECO requests for additional transformers.
- Acquiring rights-of-way and rights of entry, and pursuing partial demolition of select properties.
- Coordinating with property owners and evaluating potential cost and schedule impacts to determine practicality of partial demolition and repair of select buildings.

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

Projected Substantial Completion (Construction): November 2019

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

Project Overview: The proposed delivery method for this contract has been changed from Design-Bid-Build (DBB) to Design-Build (DB). HART intends to combine the DKSG stations and City Center guideway into one DB construction package. Design efforts that would only support a DBB procurement have been suspended to control costs. HART is engaging the final design consultant for support on the preparation of a DB bid package.

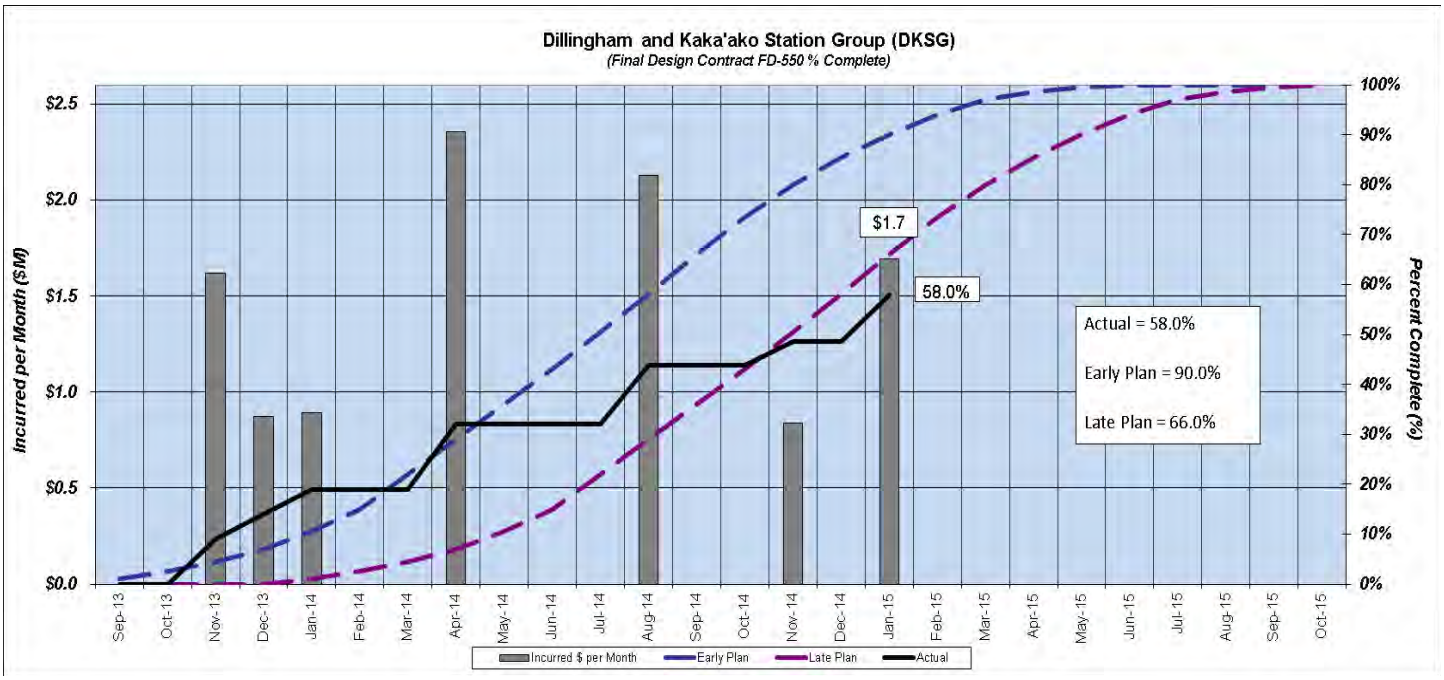
COST INFORMATION:

Original Contract: $18,321,918	Incurred-to-Date: $10,396,963
Current Contract Value[1]: $18,974,447	Incurred in Jan.: $1,694,647

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

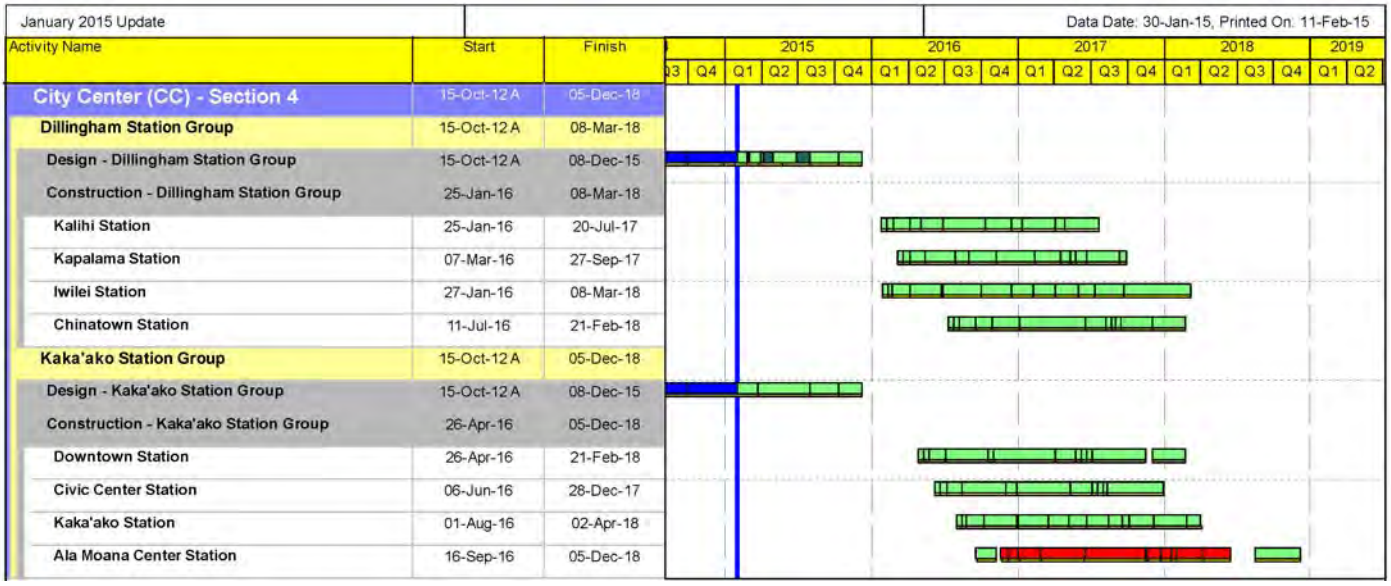
DBE Participation	
Actual DBE Participation:	$0
DBE % Attained:	0%

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



HART is working closely with the final design consultant to identify and prioritize activities that will support the selected DB delivery method. Ongoing and forecasted efforts are itemized below.

SCHEDULE:



CRITICAL PATH ISSUES:

- HART is aggressively pursuing property rights and coordinating station designs with surrounding developments.
- HART is coordinating with the final design consultant to establish requirements and format for the DB bid package.
- HART is evaluating cost reduction alternatives that affect this station group.

WORK PROGRESS:

Activities this Month:

- Current earned value is approximately 65%.
- Completed Hawai'i Community Development Authority (HCDA) Neighborhood Board presentation.
- On-going coordination with private developers and other project stakeholders.
- Finalized geotechnical reports.

Look Ahead:

- Address HCDA presentation comments.
- Establish TOD agreements with adjacent stakeholders and developers.
- Assess cost reduction alternatives for incorporation into the DB requirements.
- Prepare DB bid package.

KEY ISSUES:

- Evaluating additional cost reduction alternatives for incorporation into DB solicitation package.

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, 2015, with option to renew contract for up to two additional years

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.

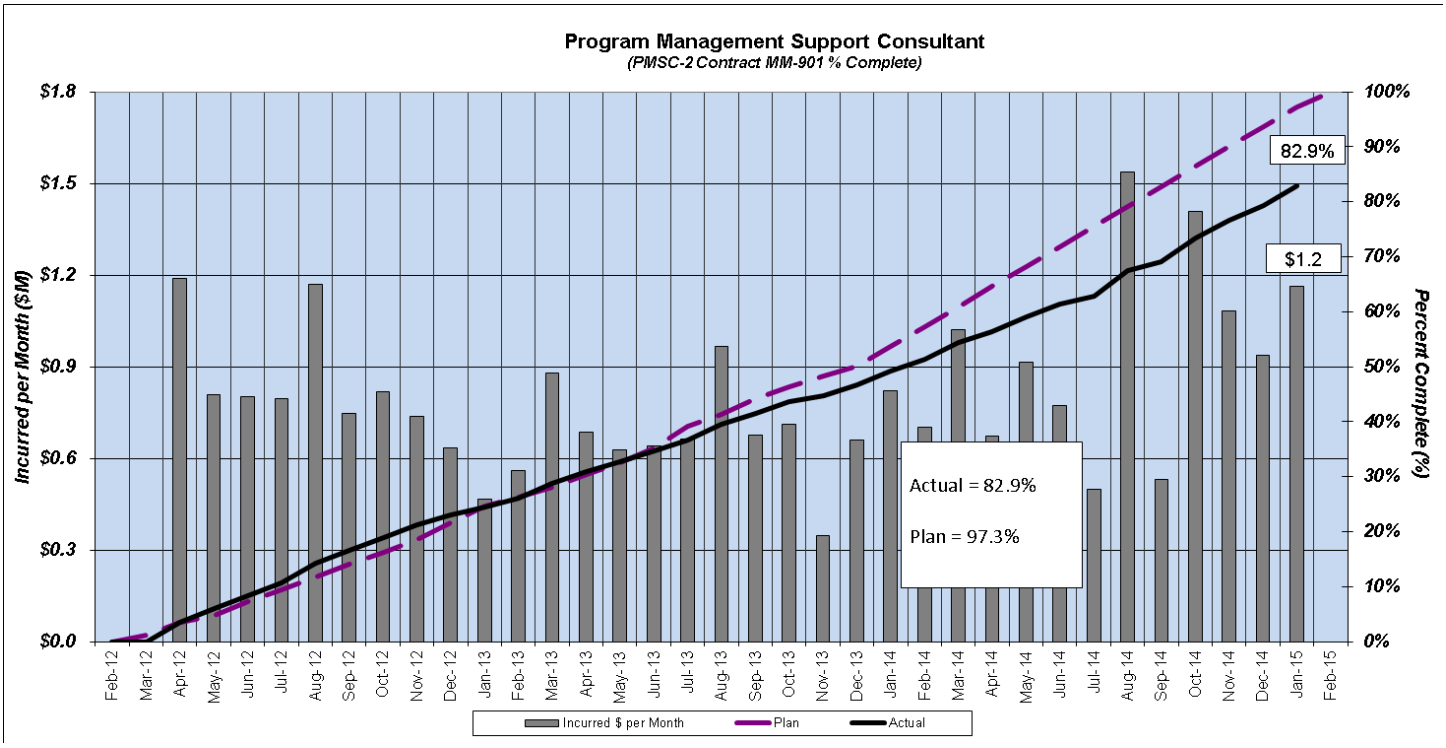
COST INFORMATION:

Original Contract: $33,376,897	Incurred-to-Date: $27,655,413
Current Contract Value[1]: $33,376,897	Incurred in Jan.: $1,163,753

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

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

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



KEY ISSUES:

- The original contract completion date is March 7, 2015. HART has elected to exercise its right to extend the contract, but for an additional one year only with an option to extend the contract for the additional remaining one year.

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 evaluating the criteria to be used to develop the Airport and City Center Guideway and Station Design-Build procurements; this includes a review of the Contract General Terms and Conditions.

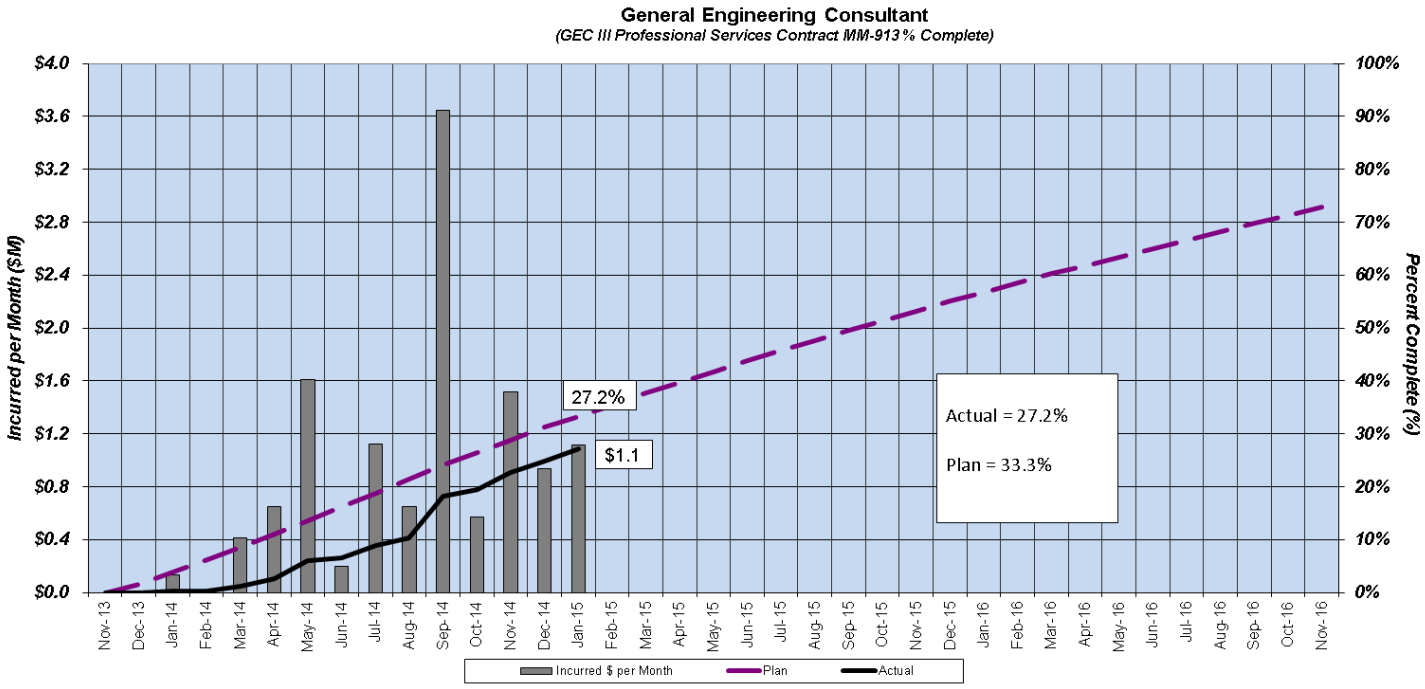
COST INFORMATION:

Original Contract: $46,143,277	Incurred-to-Date: $12,555,166
Current Contract Value[1]: $46,143,277	Incurred in Jan.: $1,111,863

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

DBE Participation	
Actual DBE Participation:	$653,071
DBE % Attained:	1.42%

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



KEY ISSUES:

- Prepare the new baseline Master Project Schedule, incorporating west guideway re-sequencing and Airport and City Center Level 2 Schedules, and assist CE&I in developing West O'ahu Stations bottoms-up estimate.
- For the Farrington Highway Station Group, prepare draft interface risk assessment and solicit PM validation.
- Provide environmental and planning constraints for the design-build contracts. Complete current post-ROD documentation and complete the Programmatic Agreement Implementation Schedule (PAIS).
- Prepare constraints and recommendations for Airport and City Center DB contracts and review contract documents.
- Revised subconsultant contracts to revise scope of work and reflect 2015 rate structure.

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.

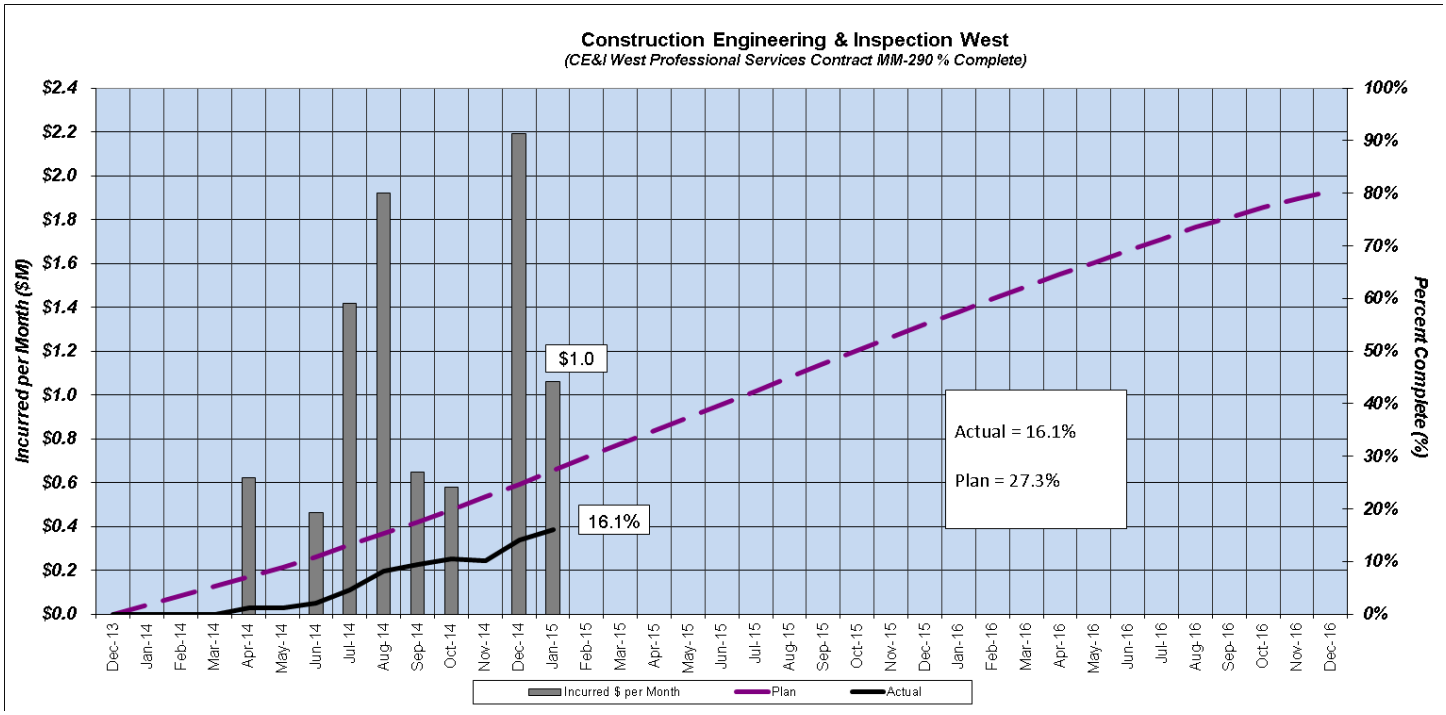
COST INFORMATION:

Original Contract:	$54,232,480	Incurred-to-Date:	$8,732,010
Current Contract Value[1]:	$54,232,480	Incurred in Jan.:	$1,058,611

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

DBE Participation	
Actual DBE Participation:	$500,036
DBE % Attained:	0.92%

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



KEY ISSUES:

- No issues.

D. Construction Engineering & Inspection East Side Sections

Contract No.: MM-595
Contractor: URS Corporation
Contract Start Date: January 2014
Contract Completion: December 2018
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.

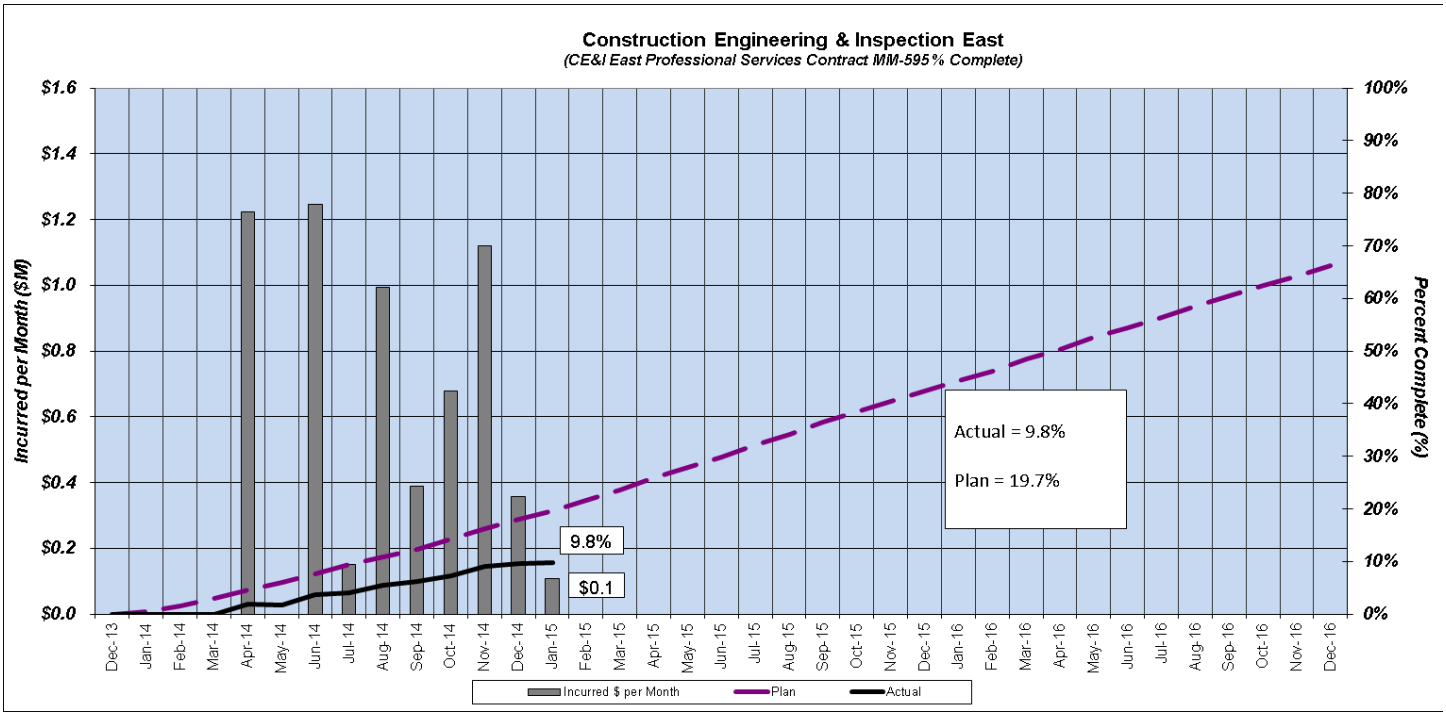
COST INFORMATION:

Original Contract: $63,083,417	Incurred-to-Date: $6,165,986
Current Contract Value[1]: $63,083,417	Incurred in Jan.: $107,622

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

DBE Participation	
Actual DBE Participation:	$546,716
DBE % Attained:	0.87%

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



KEY ISSUES:

- HART has determined the AECOM acquisition of URS has created a Conflict of Interest (COI) that URS has been unsuccessful in resolving. As such, HART is in the process of termination of the URS East CE&I contract and expediting a new re-competed solicitation for CE&I professional services for the East construction contracts.

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, the automated train control (ATC) system, the traction electrification system, the communications system, and the platform screen gates (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.

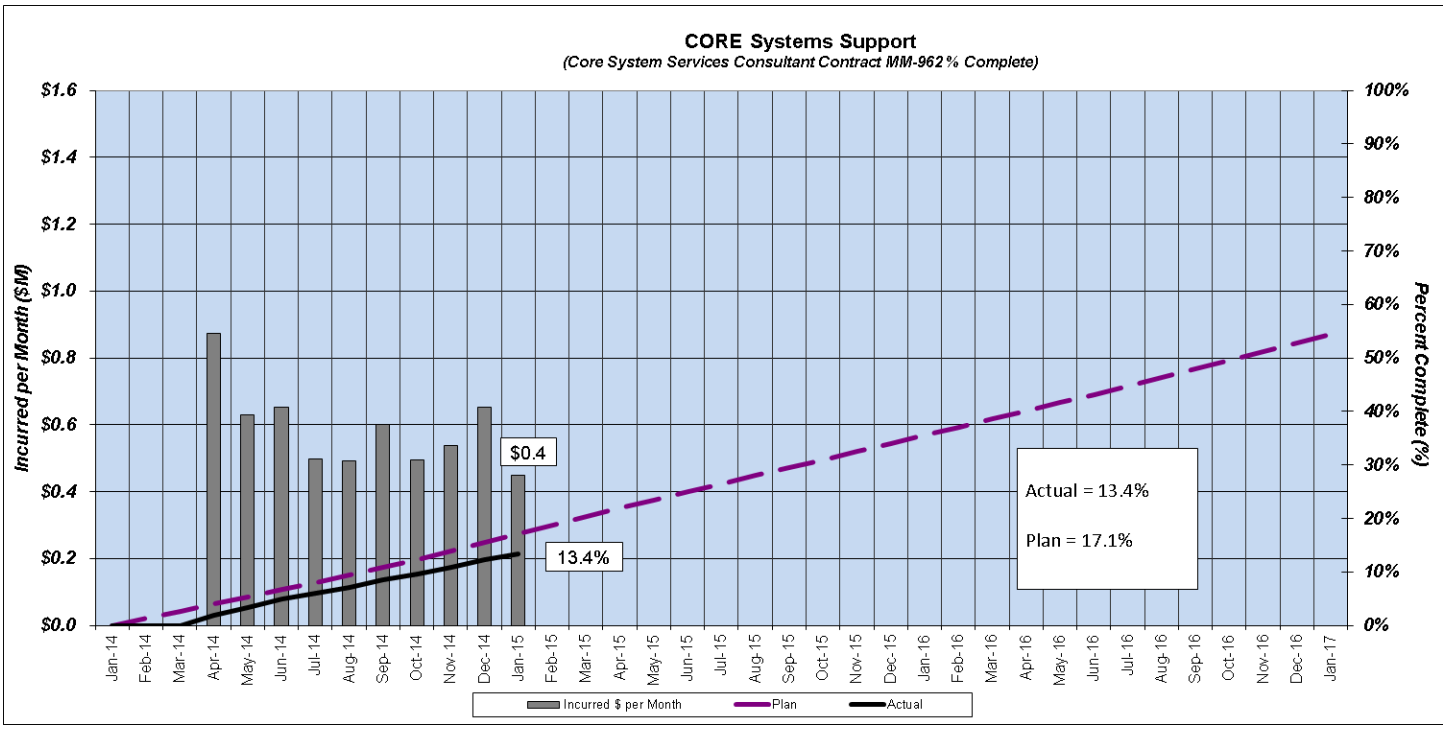
COST INFORMATION:

Original Contract: $43,988,989	Incurred-to-Date: $5,883,474
Current Contract Value[1]: $43,988,989	Incurred in Jan.: $447,809

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

DBE Participation	
Actual DBE Participation:	$151,398
DBE % Attained:	0.34%

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



KEY ISSUES:

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

5 OVERALL PROJECT-WIDE ACTIVITIES

Permits (Section 5.1)

KEY ISSUES

- HART is focusing on increasing noise monitoring efforts with the Hawai'i Department of Health (HDOH) regarding noise levels along the Kamehameha Highway Guideway (KHG) section under construction. HDOH plans to defer approvals of currently submitted noise variances pending their approval of HART's active mitigation and management of construction noise.

KEY ISSUES

- HART continues to wait for approval of its Section 401 permit application for Waiawa Stream and Tributary from the Hawai'i Department of Health (HDOH). Construction at Waiawa Stream for WOFH guideway is now delayed. HART is actively and regularly communicating with HDOH to resolve this permitting issue as soon as possible, including elevating discussions to higher levels within both HART and HDOH.
- HART is waiting to receive approval of its Coastal Zone Management from the Department of Planning and Permitting for Waiawa Stream and Tributary. The Coastal Zone Management permit will be approved immediately when the Waiawa Section 401 permit is approved.
- HART is waiting to receive approval of its Airport Community Noise Variance from the Hawai'i Department of Health.
- HART is waiting to receive renewal of its WOFH Community Noise Variance from Hawai'i Department of Health, which will expire on April 12, 2015.

HDOT Agreements (Section 5.2)

OVERVIEW

- HART received approval from HDOT to control Airport segment of State Highway Right of way starting Feb. 2, 2015. JUOA execution is still pending, and expected to be received next month.

Utility Agreements (Section 5.3)

OVERVIEW

- Reviewing comments from AT&T Corp. for Airport/City Center construction agreement.

KEY ISSUES

- HART continues to encounter multiple issues with HECO that are impacting the design and construction of planned work. HART is continuing to meet with HECO on a weekly basis to resolve the issues.

Right-of-Way (Section 5.4)

OVERVIEW

- Right-of-Way acquisitions is under budget by $10.7M, as of Feb. 20, 2015.
- ROW has been working closely with design and construction staff, and has adjusted the anticipated acquisition dates to correspond with the revised timeline projected by the updated procurement strategy.
- HART has acquired nearly all needed property for the WOFH section.
- All private property site access for guideway is complete for Kamehameha. The contractor has identified locations that are believed to require permanent easements for utility relocation. ROW is working with KIWC to resolve.
- HART is working closely with the U.S. Navy to secure easements needed for construction in the Airport Section.
- Currently, there are no impacts to City Center construction work because of ROW.

KEY ISSUES

- Resolve third-party agreements with UH, the Navy and Post Office. These are all critical to allowing construction to proceed without delay.

5.1 Permits

- **Permits Submitted and In-Progress**
  - HART continues to wait for approval of its Section 401 permit application for Waiawa Stream and Tributary from the Hawaiʻi Department of Health (HDOH). Construction at Waiawa Stream for WOFH guideway is now delayed. HART is actively and regularly communicating with HDOH to resolve this permitting issue as soon as possible, including elevating discussions to higher levels within both HART and HDOH.
  - HART submitted a draft Stream Channel Alteration Permit (SCAP) application request for Halawa, Moanalua and Kalihi streams to the Department of Land and Natural Resources, on Feb. 19, 2015.

- **Permits and Approvals Granted**
  - HART received approval of its Community Noise Permit for daytime work from the Hawaiʻi Department of Health on Feb. 10, 2015.
  - HART received approval of the MS4 application for Airport Section construction from the Navy on Feb. 4, 2015.
  - HART received approval from the Hawaiʻi Department of Health to have additional equipment added to the Airport Section Noise Permit, on Feb. 11, 2015.
  - HART received approval of the Hawaiʻi Capital Special District permit from the Department of Planning and Permitting on Feb. 3, 2015.
  - HART received approval of the Chinatown Special District permit from the Department of Planning and Permitting on Feb. 3, 2015.
  - HART received MS4 approval to discharge into state airport drainage from the Hawaiʻi Department of Transportation on Jan. 27, 2015.

- **Look Ahead**
  - Upcoming significant permit activity:
    - HART will submit the Clean Water Act Section 404 permit application for Kapalama and Kalihi to the U.S. Army Corps of Engineers.
    - HART will submit the Clean Water Act Section 401 permit application for Kapalama and Kalihi to the Hawaiʻi Department of Health.
    - HART will submit a letter of Jurisdictional Determination to the U.S. Army Corps of Engineers for Aolele ditch.
    - HART will submit a letter requesting determination of permit required to the U.S. Army Corps of Engineers for Nuʻuanu stream.

5.2 Hawaiʻi 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**
  - Airport Joint Use and Occupancy expected to be executed early 2015.
  - City Center Joint Use and Occupancy expected to be executed mid-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		Reviewing comments to draft from AT&T (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	Submitted draft to HTI 1/20/15	HTI agreement executed 9/27/13		
	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 is routing internally for review.
	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		Draft under review by Hawai'iGAS
	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 is routing internally for review.
	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 and City Center sections have been executed.
- AT&T Corp. is reviewing HART comments to the draft Construction Agreement. It is not necessary for this agreement to be in place for the Airport Segment utility construction.
- HART has sent a draft of the Utility Construction Agreement to HTI for review/comments.
- Looking Ahead:
  - Execute HTI Airport UCA.
  - Execute HECO Airport UCA.

CITY CENTER

- All engineering utility agreements for the Airport and City Center sections have been executed.
- AT&T Corp. is reviewing HART comments to the draft Construction Agreement.
- HART has sent a draft of the Utility Construction Agreement to Hawai'iGAS Utility for review/comments.
- HART has prepared a draft of the Utility Construction Agreement for OTWC and is routing internally for review/comments.
- HART has prepared a draft of the Utility Construction Agreement for tw telecom and is routing internally for review/comments.
- Looking Ahead:
  - Execute Hawai'iGAS City Center UCA.
  - Execute Oceanic City Center UCA.

HECO

- **Davis-Bacon requirements –** HECO has established a collective bargaining agreement – which does not align with Davis-Bacon requirements – for which HECO is requesting a waiver. 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 in Q1 2015 for the west side stations. HECO is working to finalize its designs and cost estimates.

5.4 Right-of-Way (data as of Feb. 20, 2015)

BUDGET

- The ROW budget continues to show a favorable trend. $70.1M was spent to acquire 34 properties. The budgeted amount for the 34 parcels was $80.8M, resulting in a budget underrun of $10.7M for acquisitions.
- $4.7M has been expended to date for relocations.

ACQUISITIONS

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

	No. of Parcels Impacted	Current No. of Parcels Needed	Appraisals In Process	Appraisals Completed	Letters of Offer Sent	Offers Accepted	Possession Granted For Condemnation	Agreements Executed	Acquisitions Completed	Relocations Completed	Properties Available for Contractor
Full Acquisition											
W.Oahu\Farrington	16	16		14	14	13	1	4	15	10	16
Kamehameha	3	3		3	3	3			3	1	3
Airport	5	5	1	4	5	5			4	3	3
City Center	23	22		20	20	16			15	11	10
TOTAL	*47*	*46*	*1*	*41*	*42*	*37*	*1*	*4*	*37*	*25*	*32*
Partial Acquisition											
W.Oahu\Farrington	11	3		2	2	1		2	1		1
Kamehameha	19	4		3	3	1	1	1	1		3
Airport	8	8		3	3			1	1		1
City Center	88	77	7	39	29	5					0
TOTAL	*126*	*92*	*7*	*47*	*37*	*7*	*1*	*4*	*3*		*5*
Easement											
W.Oahu\Farrington	18	16	6		1			9	7		8
Kamehameha	6	6	1					8	5		5
Airport	44	41		7	6			26	22		26
City Center	44	36	16	2	2			1	1		1
TOTAL	*112*	*99*	*23*	*9*	*9*			*44*	*35*		*40*
GRAND TOTAL	*285*	*237*	*31*	*97*	*88*	*44*	*2*	*52*	*75*	*25*	*77*

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:
  - HART has acquired nearly all needed property for the WOFH section, for both guideway and the stations.
  - HART is working to secure construction right of entry for the WOFH guideway at Leeward Community College.
  - HART will close on a parcel needed for the Waipahu Station.

KAMEHAMEHA

- Issues:
  - All private property site access for guideway is complete for Kamehameha. The contractor has identified permanent easement locations for relocated utilities. ROW is working with KIWC to resolve.

AIRPORT

- Issues:
  - HART has several easements pending from the U.S. Navy for the Airport Section, particularly needed for the Airport Utility contractor. These easements are nearing critical and could impact construction work. HART is working closely with the U.S. Navy right-of-way personnel to complete the documentation as quickly as possible. HART also met with Navy executives in early February.

- On multiple TMK's, HART is nearly complete with the mapping process. This is important so HART can complete several key partial acquisitions.
- HART made an offer to the Post Office for easement at Honolulu International Airport, which is pending and is being closely monitored. As of January, HART has heard that the offer has been reviewed and has been verbally accepted.

- Look Ahead:
  - Complete Post Office and Navy agreements.
  - On multiple TMK's, HART has met with consultants to expedite appraisal reports. This allows offers to move forward on remaining airport parcels in anticipation of construction.

CITY CENTER

- Issues:
  - Currently, there are no impacts to City Center construction work because of ROW.
  - There continues to be a great deal of effort toward acquiring City Center ROW parcels. Prioritization is being given to the Dillingham section and resolving remaining full acquisitions.
  - As indicated in the table, there are a number of appraisals and offers in progress.
  - HART also continues to track potential eminent domain. Two parcels, which have been working through the required process visa vie the HART Board of Directors and Honolulu City Council, was presented for the HART Board of Director's final resolution. On Jan.29, the HART Board approved two resolutions which authorized the acquisition of the parcels by eminent domain. This will allow HART staff to proceed with filing in court. These items are considered "friendly" in that they will resolve title and other administrative issues. HART is actively reviewing other pending offers for consideration for eminent domain, which could go before the HART Board of Director's in April.
- Look Ahead:
  - Continue with acquisitions in City Center.
  - Continued review of eminent domain needs.

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	11	12	8	25
Kamehameha		4		4	4	3	3	4
Airport		19		19	5	9		7
City Center	15	64		79	31	48	18	40
Grand Total:	***33***	***93***	***1***	***127***	***51***	***72***	***29***	***76***

WEST O'AHU/FARRINGTON

- Look Ahead:
  - There continues to be need for oversight of the remediation process for TMK 9-6-004-006.

CITY CENTER

- Look Ahead:
  - Complete relocation by March for several TMKs.
  - Start relocation on multiple 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	July 2015	WOFH, KHG, City Center	Final negotiations are underway. 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	Pending	April 2015	WOFH	In negotiations.
Leeward Community College (LCC) Pre-Construction Right of Entry	Executed		WOFH	
Leeward Community College (LCC) Construction Right of Entry	Pending	March 2015	WOFH	In negotiations.
UH Urban Garden Pre-Construction Right of Entry	Executed		KHG	
UH Urban Garden Construction Right of Entry	Executed		KHG	
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	June 2015	WOFH	Document in process with D.R. Horton.
Honolulu Community College (HCC) Pre-Construction Right of Entry	Executed		City Center	
Honolulu Community College (HCC) Construction Right of Entry	Pending	July 2015	City Center	In negotiations.
Department of Land and Natural Resources (DLNR) Right of Entry (Kapolei)	Executed		WOFH	Right of entry is in place.
Department of Land and Natural Resources (DLNR) Easement (Kapolei)	Pending		WOFH	Easement documents in process.
City Dept. of Parks & Recreation (DPP) (MSF drainage)	Executed		WOFH	
Department of Land and Natural Resources (DLNR) Keehi Lagoon Right of Entry	Executed		Airport	Construction ROE in place.
Department of Land and Natural Resources (DLNR) Keehi Lagoon Easement	Pending	March 2015	Airport	Process Easement Agreement.
Department of Education Master Agreement and Consent to Construct	Executed		WOFH	ROE in place. Jurisdictional Transfer in process.
Aloha Stadium / Department of Accounting & General Services (DAGS) MOU	Executed		KHG	
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry	Executed		KHG	Limited ROE granted for staging for Kiewit for KHG Contract.
Aloha Stadium / Department of Accounting & General Services (DAGS) Right of Entry	Executed		KHG	Construction ROE in place.
Aloha Stadium / Department of Accounting & General Services (DAGS) Easement	Pending	June 2015	KHG	Easement in process.
DHHL Master Agreement	Executed		WOFH, MSF	

Third-Party Agreements				
Agreement	Status	Target	Section	Notes/Remarks
DHHL Consent to Construct	Executed		WOFH, MSF	Consent to construct in place.
DHHL License	Executed		WOFH, MSF	
HDOT Master Agreement	Executed		WOFH	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		WOFH	
HDOT Master Agreement for KHG, Airport and City Center	Executed		KHG, Airport, City Center	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Executed		KHG	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement for Airport Division parcels	Executed		Airport	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement for Airport leased/revenue parcels	Pending	April 2015	Airport	
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Pending	June 2015	City Center	
HDOT SOA MOU	Executed		Program	
OCCC/Hawai'i Department of Public Safety Agreement Dillingham Blvd	Pending	March 2015	City Center	Finalizing requirements.
HI Community Development Agreement (HCDA)	Pending	March 2015	City Center	Coordination is on-going.
Department of Accounting & General Services (DAGS)/HHFDC Right of Entry	Pending	March 2015	City Center	Processing.
Department of Accounting & General Services (DAGS)/HHFDC Easement	Pending	June 2015	City Center	Process Easement Agreement.
City Dept. of Transportation Services (DTS) Joint Use & Occupancy Agreement (Middle St.)	Pending	March 2015	Airport	Processing. Pending design.
U.S. Navy	Pending	March 2015	WOFH, KHG, Airport	Easements are being processed by the Navy. Navy will not charge for all licenses and easements. Exemption granted.
U.S. Navy Pearl Harbor Station	Adopted		Airport	Congress passed bill to transfer property to City.
U.S. Post Office Honolulu Processing Center	Pending	March 2015	Airport	Offer tendered to the Post Master General. HART received verbal approval and awaiting formal response.
City Dept. of Transportation Services (DTS) (Kamehameha Hwy.)	Pending	June 2015	City Center	Jurisdictional Transfer in process.
City Dept. of Facility Maintenance (DFM) (N. King St.)	Pending	June 2015	City Center	Jurisdictional Transfer in process.
City Dept. of Transportation Services (DTS) (Kohou St.)	Pending	June 2015	City Center	Jurisdictional Transfer in process.
Federal Court House/GSA	Pending	March 2015	City Center	Draft agreement is under review and discussions on-going.
Pacific Guardian Center	Pending	December 2015	City Center	Awaiting final design requirements for the guideway and Downtown station.
Howard Hughes Corporation	Pending	December 2015	City Center	Appraisal and negotiations underway.
Sam House Development	Pending	December 2015	City Center	Appraisal and negotiations underway.
GGP Ala Moana LLC	Pending	December 2015	City Center	Appraisal and negotiations underway.

6 MANAGEMENT AND ADMINISTRATIVE UPDATES

Safety and Security (Section 6.1)

OVERVIEW

- Significant progress continues on the Safety and Security Design Criteria (DC) Conformance checklists CIL/CEL design verification. HART Safety has maintained a detailed Design Criteria Conformance Checklist Status Report for all contracts along with detailed KHG and WOFH verification status sheets on their multiple sub-CEL/CIL packages. These verification status sheets outline the CEL/CIL packages approved by the SSRC, ready for SSRC approval, packages that are working between HART Safety and the designers, and CEL/CIL packages that have not been submitted to date.
- Construction Safety and Security Specification Conformance Checklists are under development and in the process of being reviewed with each contract Construction Manager (CM) Certification POC in preparation for SSRC final review and approval. HART Safety has also developed a detailed Specification Conformance Checklist Status Report by contract to track overall verification status. HART SSRC has approved the WOFH Construction Specification Conformance Checklist this month and is scheduled to review for approval KHG and MSF checklists in March 2015.
- Core Systems Contract (CSC) sub-systems Hazard Analysis (HAs) continue to be reviewed and updated as needed and outlined in the document status chart.

KEY ISSUES

- Interim Certification – While delivery dates of passenger vehicles are recorded on the Master Schedule, these dates do not reflect the actual dates needed to certify the elements associated with vehicles, tracks, third rail, facility, and power for commissioning the vehicle (testing and verification). These safety and security activities need to be inserted into the Master Schedule prior to the arrival of the vehicles.
- Specification Conformance Checklist continues to be a priority and is being developed.
- HECO – Power for testing and verification needs to be complete prior to AHJV vehicle arrival in early 2016.

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 Nonconformance Reports (NCR) are reported or encountered.
- HART QA reviewed and approved the revised QAP of CH2M (GEC III).

KEY ISSUES

- QA audits of WOSG (URS) and KHSG (AVA) Final Design prior to issuance for bid solicitation.
- QA Audit of Airport Guideway (AECOM) and ASG (AECOM) Final Design prior to issuance for bid solicitation.
- QA review of procurement document package for the Airport Segment and Station Group DB RFP.
- Replacement of Cracked Segments 11 and 12 of Span 67 (HART NCR No. 14-000-QA1); remedial work in progress.
- Construction of MSF Yard Ballasted Track: Alignment, Profile, Geometry, Sub-ballast, Drainage, Ballast, Grade Crossings, Welding, Stress Relieving, Concrete Ties, etc.
- Construction of WOFH Balanced Cantilever Segmental Span across H-1.
- Timely closeout of open NCRs (HART, WOFH, KHG and MSF).

Buy America Compliance (Section 6.3)

OVERVIEW

- An interim Buy America audit will be conducted and is anticipated to commence in the first quarter 2015.
- No further or additional report on utilities' construction contracts since the last report.

- MSF: HART will be working with FTA Region 9 legal counsel in resolving or closing the Buy America issues for bridge crane and lockset door hardware.

Disadvantaged Business Enterprise (Section 6.4)

OVERVIEW

- $20,757,577 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 2/28/15.

Risk Management (Section 6.6)

OVERVIEW

- There are a total of 192 risks in the February 2015 risk register. Sixteen risks have been deleted from January's risk register and two new risks have been added.
    - Risk reductions were a decrease in geotechnical risk and commodity prices.
    - Risk additions were related to noise permit conditions to KHG and likely timeliness of securing Navy easements for the Airport Utilities contract.

KEY ISSUES

- Risks associated with the market, right-of-way, utilities and third parties top the list of concerns; this is fairly typical of transit projects.
- The construction market represents a particularly challenging situation for HART.
    - Construction escalation is expected to continue to be high for 2015, as growth in island permitted work continues at a faster rate than construction completion of 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.

Community Outreach (Section 6.7)

OVERVIEW

- HART's construction outreach focuses on businesses along the alignment in Waipahu, Pearl City, Aiea and urban Honolulu areas.

KEY ISSUES

- With construction well underway, HART's outreach team responded to more than 160 inquiries that came through the project's 24-hour hotline, the website and via email.
- HART's outreach efforts also continue to address the project's finances and how to reduce costs and secure additional revenue sources.

Staffing (Section 6.8)

OVERVIEW

- All key positions are filled.
- HART prioritizes hiring city employees for vacant positions and supplements the city staff with a limited number of consultants where positions are difficult to fill at existing City & County of Honolulu salary levels.
- Interviews for the two vacant Transit Contracts Manger positions are complete. Two candidates have been selected, tentative offers have been extended and both candidates accepted. Hiring process is in progress and expected to be complete in March 2015.

KEY ISSUES

- The latest organization chart is dated Jan. 14, 2015. A new chart is in the works that will reflect minor revisions.

6.1 Safety and Security

HART Safety Certification Documents Status			
Documents	Revision #	Date Approved	Comments
Safety and Security Management Plan (SSMP)	Rev 5	02/25/2015	Pending signatures – SSRC approval 02/25/2015
Safety and Security Certification Plan (SSCP)	Rev 4	02/25/2015	Pending signatures – SSRC approval 02/25/2015
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 – SSRC approval 12/03/2014
Project Preliminary Hazard Analysis (PHAs)	Rev 1	6/6/2014	Finalizing PHAs is on-going
Core Systems Contract (CSC) PHAs (DBOM)	Rev C	-	Received 12/15/14 - CSC updating
- Wayside ATC SSHA	Rev B	-	Received 11/14/2014 - CSC updating
- Wayside ATC O&SHA	Rev B	-	Received 12/15/2014 - CSC updating
- Wayside/ATC SHA	Rev C	-	Received 1/6/2015 - CSC updating
- SCADA O&SHA	Rev B	-	Received 02/15/2015 - CSC updating
- SCADA SSHA	Rev B	-	Received 1/6/2015 - CSC updating
- Vehicle/ATC SSHS	Rev C	-	Received 12/15/2014 - CSC updating
- Vehicle/ATC O&SHA	Rev B	-	Received 02/4/2015 - CSC updating
- TES SSHA	Rev A	-	Received 11/17/2014 - CSC updating
- TES SHA	Rev A	-	Received 12/12/2014 - CSC updating
- PSGS O&SHA	Rev A	-	Received 12/8/2014 - CSC updating
- PSGS SSHA	Rev A	-	Received 02/2/2015 – CSC updating
Threat and Vulnerability Assessments (TVAs)			
- Project TVA	Rev 1	1/16/2015	

S & S Design Criteria (DC) Conformance Checklist Design Verification Status			
Contracts: DC Conformance Checklists (CEL/CILs)	% Design Verified	% Increase from last FTA Monthly Report	Comments:
Under Construction			
DB-200, MSF	**99%**	-	SSRC approved 1/28/2015
DB-120, WOFH Guideway	**89%**	**+12%**	**42 total – Sub CEL/CIL Packages** 16 - SSRC approved 1/28/2015 6 – SSRC approved 02/25/2015
DB-320, KHG Guideway	**85%**	**+11%**	**37 total – Sub CEL/CIL Packages** 21 - SSRC approved 1/28/2015 6 – SSRC approved 02/25/2015
FD-430, Airport Utilities	**100%**	-	SSRC approved – 6/25/2014
Under Design			
FD-140, West O'ahu Station Group	**46%**	-	Re-designed-CEL/CILs being updated
FD-240, Farrington Hwy Station Group	**8%**	**+8%**	Re-designed-CEL/CILs being re-submitted
DB-275, Pearl Highlands PS/Bus Transit Center	-	-	
FD H2R2 Ramps	-	-	
FD-340, Kamehameha Highway Station Group	**83%**	-	Re-designed-CEL/CILs being updated
DB-xxx, Airport Guideway and Stations Group	-	-	
FD-430, 7 - Shafts	**88%**	**+88%**	
DB-xxx, City Center Guideway & D&K Stations Grp	-	-	
FD-530, City Center Utilities	-	-	
FD-600, West O'ahu Park & Ride	-	-	
DBOM-920, Core Systems	-	-	
- Traction Electrification System CIL	-	-	
- Communication System CIL	-	-	
- Fire Detection Alarm System	-	-	
- Passenger vehicle CIL	-	-	
- Train Control CIL	-	-	
- Supervisory Control & Data Acquisition (SCADA)	-	-	
- Platform Screen Gate System	-	-	
- MOW Vehicles	-	-	
- Yard systems Bungalows	-	-	
MI-930, Elevators & Escalators	-	-	

S & S Construction Specification Conformance Checklists Construction Installation/Testing Verification Status			
Contracts	% Construction Installation Testing Verified	% Increase from last FTA Monthly Report	Comments
Under Construction			
DB-200, MSF	-	-	Draft spec conform checklist under review
DB-120, WOFH Guideway	-	-	SSRC approved base checklist 02/25/2015
DB-320, KHG Guideway	-	-	Draft spec conform checklist under review
DBB-505, Airport Utilities	-	-	Draft spec conform checklist under review
Still under Design or in Pre-bidding Process			
FD-430, 7 - Shafts	-	-	Draft spec conform checklist under review
DBB-171, West O'ahu Station Group	-	-	
DBB-271, Farrington Hwy Station Group	-	-	
DB-275, Pearl Highlands PS/ Bus Transit Center	-	-	
DBB-371, Kamehameha Hwy Stations Grp	-	-	
DBB-385, H2R2 Ramps	-	-	Draft spec conform checklist under review
DB-xxx, Airport Guideway & Stations Grp	-	-	
DBB-xxx, City Center Utilities	-	-	
DB-xxx, City Center Guideway & D&K Stations Grp	-	-	
DBB-600, West O'ahu Park & Ride			
DBOM-920, Core Systems	-	-	
MI-930, Elevators & Escalators	-	-	

Project-Wide Incident Activity					
Event Type	Total Number of Events since 1/1/2007	Total Number of Events for February 2015	Loss Type	Date	Event Description
Environment	12	1	No Loss	2/11/2015	WOFH - Noise complaint.
Loss or Damage	18	1	Minor damage	2/10/2015	WOFH - A hoisted beam struck the boom of the 3900 crane causing a dent and scratches.
*Reportable Occupational Injury/Illness	0	0			
Security	42	0			
**Loss Time Occupational Injury/Illness	6	0			
Road/Vehicle - Driving	43	8	Minor damage No Loss Minor Damage Minor Damage Minor Damage Minor Damage Minor Damage No Loss	a) 2/3/2015 b) 2/5/2015 c) 2/10/2015 d) 2/13/2015 e)2/13/2015 f) 2/20/2015 g) 2/21/2015 h) 2/25/2015	a) KHG - Employee backed his truck into a trailer. b) KHG - Citizen drove through work area and abandoned the vehicle. c) KHG - Citizen drove his employers vehicle into a roadway attenuator. d) Airport - Excavator track struck a curb and caused minor damage. e) KHG - A citizen driving a vehicle struck 12 triton barriers. f) WOFH - Employee driving a forklift struck an overpass. g) WOFH - Employee set the blade of a front end loader down and struck the side of an excavator. h) WOFH - Citizen entered a workzone with a vehicle at a high rate of speed and wrecked into the K-Rail.
Service Strike	31	5	No Loss Minor Damage Minor Damage Minor Damage Minor Damage	a) 2/3/2015 b) 2/3/2015 c) 2/7/2015 d) 2/24/2015 e) 2/25/2015	a) Airport - Worker hit a 2" pvc conduit while hand digging. b) WOFH - Employee struck 4" pvc and 2" pvc conduit with excavator. c) WOFH - Employee struck overhead telecom line with excavator. d) KHG - Employee struck two unmarked Traffic Signal conduits. e) KHG - Water line broke due to age of the water line and hand digging.

*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.

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 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; and Buy America compliance.
  - Participated in Pre-Activity Meeting for scheduled construction activities on WOFH (Base Grouting of Spans), MSF (Surface Finishes and Painting, Thermoplastic Polyolefin Roofing and Wheel Truing Machine); and pre-shipment inspection and design verification testing of Transformers on CSC. QA Hold Points and Witness Points were assigned on contractor's Inspection and Test Plans (ITP), respectively.
  - Performed Combined QA and Buy America Audit of KIWC (WOFH and KHG) and KKJV (MSF).
  - Perform Management System Audits (QA, Environmental and Buy America); 2015 Combined Management System Audit Schedule as shown below:

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 3

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	6/16 - 6/23		
	Honolulu Authority for Rapid Transportation (HART) -Security & Safety Only					
CT-HRT-10HO137	West O'ahu/Farrington Highway Guideway Design-Build (WOFH)	KIWC - HI	15-001	2/17 - 2/19	2/17 - 2/18	
CT-HRT-11HO195	Kamehameha Highway Guideway Design-Build (KHG)	KIWC - HI				
CH-HRT-10HO449	Maintenance and Storage Facility Design-Build (MSF)	KKJV - HI	15-003	2/25 - 2/26	2/25 - 2/26	
CT-HRT-11HO195	WOFH-KHG Casting Yard	KIWC - HI	15-011	7/15 - 7/16		
CT-HRT-10HO137	WOFH, KHG, MSF) Audit Surveying and Alignments	KIWC/KKJV - HI	15-013	8/19 - 8/20		
CH-HRT-10HO449	MSF-Swanson Structural Steel	KKJV/Swanson	15-014	8/26 - 8/27		
CT-HRT-1200106	Core Systems Contract (CSC) Design-Build-Operate-Maintain	ASTS Italy R Calabria	TBD	TBD		
		AB Italy Pistoia	TBD	TBD		
		AB Italy Naples	TBD	TBD		
CT-HRT-1200106	Core Systems Contract (CSC)	AHJV - HI	15-010	6/25 - 6/26		
SC-HRT-1200116	West O'ahu Station Group Final Design (WOSG)	URS - HI	15-005	5/6 - 5/7		
SC-HRT-1400012	Farrington Highway Station Group Final Design (FHSG) Group 2	URS - HI	14-014	12/15	12/15	
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 3

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 AVA - CA	15-002	4/29 -4/30		
SC-HRT-1200111	H2R2 Final Design	AVA - HI AVA - CA	15-004	1/28	1/28	2/3
SC-HRT- 1200038	Airport Section Utilities and Guideway Final Design (AUG)	AECOM - HI	15-008	5/27 - 5/29		
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	15-018	11/23 - 11/24		
FD-600	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes Final Design	TBD	TBD	TBD		
DBB-185	West O'ahu/Farrington Hwy/Kamehameha Hwy Station Groups "West Side Stations" Construction	TBD	TBD	TBD		
DBB-275	Pearl Highlands Parking Structure/Bus Transit Center Construction	TBD	TBD	TBD		
DBB-470	Airport Station Group Construction	TBD	TBD	TBD		
SC-HRT-1200038	Airport Section Utilities Construction	NAN, Inc	15-012	7/29 - 7/30		
CT-HTR-1500080	Airport Section Guideway Seven Pier Construction	HDCC/CJA JV	15-006	5/13 - 5/14		

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

COMBINED MANAGEMENT SYSTEM AUDIT SCHEDULE

YEAR: 2015 Rev 3

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-510	City Center Section Utilities Construction	TBD	TBD	TBD		
DBB-520	Airport and City Center Sections Guideway Construction	TBD	TBD	TBD		
DBB-580	Dillingham/Kaka'ako Station Groups "East Side Stations" Construction	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	15-016	9/8 - 9/10		
SC-HRT-1400050	West O'ahu, Farrington Highway, and Kamehameha Highway Station Groups "West Side Stations" CE&I	PGH Wong - HI	15-015	9/2 - 9/3		
	Pearl Highlands Parking Structure/Bus Transit Center CE&I		TBD	TBD		
	UH West O'ahu Park-and-Ride and Ho'opili Station Finishes CE&I		TBD	TBD		
SC-HRT-1400051	Airport and City Center Section Utilities CE&I	URS - HI	15-017	9/14 - 9/15		
	Airport and City Center Sections Guideway CE&I		TBD	TBD		
	Airport, Dillingham, and Kaka'ako Station Groups "East Side Stations" CE&I		TBD	TBD		
SC-HRT-1400027	General Engineering Consultant III for Final Design and Construction (GEC III)	CH2M Hill	15-007	5/20 - 5/21		

- **Key Issues**

HART NCR Log		
Total NCRs Issued To Date	CLOSED	OPEN
31 (Audits)	30	1
1 (Construction)	0	1

- 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.
- Closing of QA audits performed, including NCRs and Observations in order to prevent recurrence and occurrence, respectively. See HART NCR Log above.
- QA audits of WOSG and KHSG Final Design prior to issuance for bid solicitation.
- QA audit of Airport Guideway and Station Group Final Design prior to issuance of DB RFP.
- Replacement of Cracked Segments 11 and 12 of Span 67 (HART NCR No. 14-000-QA1); remedial work in progress.
- Construction of MSF Yard Ballasted Track: Alignment, Profile, Geometry, Sub-ballast, Drainage, Ballast, Grade Crossings, Welding, Stress Relieving, Concrete Ties, etc.
- Construction of Balanced Cantilever Segmented Span across H-1.
- Timely closeout of open NCRs (HART, WOFH, KHG and MSF).

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

- **Interim Buy America Audit**
  - An Interim Buy America audit is anticipated to commence in the first quarter and will be conducted by Raul v. Bravo + Associates, Inc., who has subject matter expertise in Buy America audits.

- **Utilities**
  - HART has entered into construction agreements with the following utility companies, under which each of the listed utility company has signed the Buy America compliance certification:
    - Hawaiian Electric Company
    - Oceanic
    - Hawaiian Telcom
    - Hawai'iGAS
    - Hawaii Independent Energy (formerly Tesoro)

- **Look Ahead**
  - Will provide updates on any new construction agreements HART enters into with a utility company.
  - Will provide updates on the Buy America Interim Audit for rolling stock.
  - Will provide updates on the outstanding Buy America issues involving the bridge crane and lockset door hardware.

6.4 Disadvantaged Business Enterprise (DBE)

- **Activities this month**
  - $20,757,577 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 2/28/15
    - 6.04% = DBE utilization on total disbursed FTA funds received to date ($20,757,577 divided by $343,873,262)
    - 1.18% = DBE utilization to date on total Project FTA funds ($20,757,577 divided by $1,763,903,901)

Total DBE Participation = $20.8M
(previous report = $20.6M)

Figure 17. DBE Participation this Month

DBE Participation in February		
DBE Firm	**Contract Number**	**Participation**
Lawson & Associates	SC-HRT-1400061 MM-964	$53,222
ADS System Safety Consulting	SC-HRT-1400061 MM-964	$91,488
LKG-CMC	SC-HRT-1400049 MM-962	$13,964
TOTAL FOR THE MONTH		**$158,674**

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

6.5 Planning and Environment

- **Activities this month**
  - Programmatic Agreement Activities:
    - HART's Programmatic Agreement (PA) team met with the Navy on Feb. 19, 2015 to finalize comments on the two Makalapa National Register Nominations.
    - HART's PA team convened a new monthly meeting with the State Historic Preservation Division (SHPD) on Feb. 3, 2015 to ensure ongoing Section 106 coordination and consultation.
    - HART participated in two meetings with FTA and the Kākoʻo investigating two separate Consulting Parties' claims of indirect and cumulative effects on Feb. 26, 2015.

- Planning, Environmental, and Cultural Activities:
  - HART continues to work with the City Department of Parks and Recreation (DPR), the State of Hawai'i Department of Transportation – Highways (HDOT), and other agencies to transplant trees which will be affected by project construction. Transplanted trees were moved into the Pearl Harbor Interchange at the end of February.
  - HART has received preliminary approval on the draft Project wide Additional Right-of-Way Acquisitions and the UHWO Interim Park-and-Ride Facility Post RODs. Both documents will be formally submitted in the first week of March for formal FTA approval.

- **Looking Ahead**
  - Participate in Programmatic Agreement Annual Meeting.
  - Conduct regular monthly O'ahu Island Burial Council (OIBC) and cultural descendant meetings.
  - Conduct regular monthly bus-rail integration planning meetings with city DTS to ensure consistent planning of seamless bus and rail services focusing on rail's interim opening date.
  - Conduct regular monthly HART/SHPD consultation meetings.
  - Continue resolution of Post ROD documentation.

6.6 Risk Management

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 management is the systematic process of identifying, analyzing, and responding to risk in a timely manner. 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.

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, and in turn reassures the public that the Project will be completed on time and on budget. Effective management of project risks is necessary to significantly increase the likelihood of delivering a successful project. Some risks are directly within HART's control while others are not.

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." Construction of the Project involves systematically using equipment and materials through a variety of means and methods to create a quality transit system. Therefore, 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 program wide risks which is an aggregate of the individual contract risks of the same category. Key metrics are subject to change as more is learned about the risks while implementing mitigation of avoidance, minimization and transfer, and as additional expertise is brought in to implement various aspects of the Project. By actively managing the RR, HART is able to actively manage the Project.

NOTES OF SIGNIFICANCE

- Kamehameha Highway Guideway production rates are behind schedule.
- Construction market escalation rates are exceeding forecast and FFGA budget. Cost containment is critical.
- Induced current from parallel high voltage power lines and associated risk to passengers has been mitigated with negative grounding device to be incorporated in the design.
- Securing Navy property is becoming critical.
- Securing a Section 401 from DOH is becoming critical for the Waiawa Stream crossing area on the WOFH Guideway project.

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, D) University of Hawai'i, E) Kamehameha Guideway Production, F) Core Systems Interface, and G) U.S. Navy Property.

A) Market Conditions – The construction market in Hawai'i is similar to the conditions experienced in 2005-07. There is significant investment in private development. 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 are extraordinary conditions and not sustainable long term. It is not known when outside investors will slow their rate of investment into the local economy. These conditions will affect the craft labor experience which will in turn affect contractor productivity rates.

Mitigation Plan:

- Seek Construction Industry feedback regarding market conditions, trends and future outlook to inform Delivery and Procurement Plan. ***Action:***
    - ***Prepare General Terms and Conditions for the Design-Build guideway and station packages as part of feedback follow up to contracting industry. – March 2015.***
- Revise Contract Packaging Plan based on Contractor Industry feedback. ***Actions:***
    - ***Prepare update to CPP. – Date: Feb. 2015.***
    - ***Determine package content (i.e. Reference or Record Drawings) and issue direction to Design and Construction to provide direction to designers. – Date: Feb. 2015.***
    - ***Provide direction and change order to HART Designers to complete packages for bidding per the new procurement plan. – Date: Feb. 2015.***
- Refine list of primary and secondary mitigation measures. ***Actions:***
    - ***Update list for discussions with FTA. – Date: Jan. 21, 2015. Complete.***
    - ***Finalize recommendations for primary and secondary mitigation measures and submit to "Project Director" for Action. – Mar. 2015.***
- Identify opportunities within project scope for alternative funding sources. ***Actions:***
    - ***Reach agreement on possible HDOT funding of utility, widening, ITS and Intersection Improvements. – Date: Feb. 2015.***
    - ***Research State Law relative to Public Private Partnership funding relative to TOD and parking opportunities. – June 2015.***
- Seek additional GET extension of funding to close the gap for market conditions and delay beyond HART's control. ***Actions:***
    - ***Work with Board, City/County Honolulu and Legislative Committee members to develop proposed Legislative Bill to extend the GET and respond to frequently asked questions. – Complete.***
    - ***Respond to Legislators and provide testimony. – Date: TBD and Ongoing throughout the session.***

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: Mar. 2015.***
    - ***Revise Utility Agreements accordingly. – Date: TBD.***
    - ***Update CPP with accurate cost estimates. – Date: Mar. 2015.***
- Responses from HECO with respect to the 138kV vertical and horizontal clearance from HART fixed facilities are lagging HART's needs for information and specificity. Cost exposure could be $60-150M to underground the 138kV line. Affected contracts are KHG, Airport Guideway and City Center Guideway. ***Actions:***
    - ***Coordinate with HECO regarding their operations and maintenance needs. Bring Bronto Truck to the island to demonstrate and evaluate the truck's performance while maintaining HECO facilities – Complete.***
    - ***Secure DB Guideway design, define and evaluate remaining 138kV line undergrounding due to horizontal and vertical conflict resolution needs with HECO. – Date: Feb 2015.***
    - ***Meet with HECO to finalize undergrounding plans for 138kV line. – Date: Mar. 2015.***
- Weatherhead to weatherhead service connections are in violation of current code. The corrections required to remedy code violations are much more extensive than estimated at the time of FFGA. The cure is site specific requiring significant data collection and consultation with HECO. Cost impacts to correct the code violation condition could create additional costs (i.e. 100-150 services for $10-15K per hook up) for HART not included in the FFGA and also require additional construction property easements to access sites. ***Actions:***
    - ***Seek clarification on HECO safety and code requirements to resolve weatherhead to weatherhead service connections. – Feb 2014.***
    - ***Coordinate design and construction requirements with HECO, HART designer and Right-of-Way to resolve issues for each site. – Feb 2014.***

C) Right-of-Way – There are a few parcels on the 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 Side – all remaining right-of-way issues have been escalated to HART Executives. All remaining parcels are on the critical path or near critical path and must be resolved as soon as possible. Parcels include: UH West O'ahu and Leeward Community College. ***Action:***
    - ***Issues have been escalated for property access issues for resolution. – Date: Mar. 2015.***
        - ***UH West O'ahu***
        - ***Leeward Community College***

- 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. ***Actions:***
    - ***Elevate coordination with Navy for Pearl Harbor Station for schedule coordination and certainty of clearance by July or pull station out of the DB package. – Date: Apr. 2015.***
    - ***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: Jun. 2015.***

D) University of Hawai'i – Ongoing coordination to fully resolve access issues has been escalated. There are a number of sites dependent upon a successful resolution to the agreement flow down of provisions from HART to the contractor that is acceptable to the University, the contractor and HART. Most critical is the LCC property on the WOFH project.

Mitigation Plan:

- Construction Right-of-Entry negotiations have been escalated to HART Executives and is being resolved. The flow through language has been discussed between the three parties; UH, HART and the Contractor. Once the initial agreement has been resolved at all levels, it will be used and tailored to each remaining site. ***Action:***
    - ***Issues have been escalated for property access issues for resolution. – Date: Mar. 2015.***
        - ***UH West O'ahu***
        - ***Leeward Community College***

E) Kamehameha Highway Guideway 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 the KHG guideway and facilities. 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. ***Actions:***
    - ***Direct contractor to implement recovery plan. – Date: Jan. 2015 – Complete.***
    - ***Provide Recovery Plan and initiate implementation of the plan upon approval. – Date: TBD.***

F) Core Systems Interface – Delays in access milestones of the Maintenance Storage Facility, Stations or Guideway interfaces to systems results in delays to the Core Systems Contractor substantial completion milestones. There is a concern that updates to contractor schedules will not synchronize with the Core Systems Contractor due to a variety of reasons; delay in station procurement and/or delay resulting from productivity issues with respect to the guideway.

Mitigation Plan:

- Efforts to minimize further delay to the Core Systems Contractor include: 1) Issuing revised access dates and requesting an updated baseline schedule. 2) Extend dates; need to define completion dates. 3) HART and AHJV will work to re-sequence activities to minimize overall cost impact to the project. 4) Joint HART/AHJV workshop to work out detail of schedule rebaseline. ***Actions:***
    - ***Implement four step mitigation plan to correctly understand the schedule implications of new station procurement and guideway/station procurement dates. Coordinate Core Systems schedule impacts and report results to Project Controls and Project Director. – Date: Mar. 2015.***
    - ***Evaluate the need for going with a separate TPSS Bungalow to mitigate station access impacts and develop recommendation prior to the procurement of the next station package. – Date: Mar. 2015.***

G) U.S. Navy Property – There are a number of property easements required for site access. These properties have an impact to construction in the Airport Section. The Pearl Harbor Station is also affected. A certain level of delay was expected due to the coordination required locally through command channels to Washington, D.C. through the various federal processes. It is apparent the approvals required are not moving as HART was anticipating.

Mitigation Plan:

- Efforts to accelerate the process are underway through an increased number of meetings with the Navy at various levels to attempt to educate, learn and communicate at the multiple levels within each Agency. ***Actions:***
    - ***Meet with local command staff to review plans, purpose and need of the project as well as specific issues and property required. – Date: Mar. 2015.***
    - ***Meet and resolve technical issues of reporting items of historic significance and other matters relating to Navy approvals of property access rights. – Date: Mar. 2015.***

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

Figure 18. Risk Matrix

Risk Matrix					
Legend	Low (1)	Med (2)	High (3)	Very High (4)	Significant (5)
Probability	< 10%	10><50%	> 50%	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 February 2015								
Current Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Feb. '15 Risk Rating	Jan. '15 Risk Rating
96.09	West Side Station Group	Market - Procurement results in higher pricing than FFGA estimate assumptions.	100%	5	5	4	22.5	22.5
111.05	Airport Guideway	Market - Estimates may be low for remaining guideway based on WOFH and KHG relative to construction market escalation.	90%	5	5	4	22.5	22.5
111.06	City Center Guideway	Market - Estimates may be low for remaining guideway based on WOFH and KHG relative to construction market escalation.	90%	5	5	4	22.5	22.5
20.08	Core Systems Contract	Interface - Delays in access milestones of MSF, stations, or guideway interfaces to systems results in delays to core systems contractor substation completion milestones.	100%	5	5	4	22.5	22.5
110.06	City Center Guideway	Right of Way - 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
65.06	City Center Guideway	Third Party (HECO) - 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	10.5
20.04	Kamehameha Highway Guideway	Interface - Late delivery of/or acceptance of civils, stations, or systems interface to guideway results in change orders.	100%	5	3	4	17.5	17.5
170.04	Kamehameha Highway Guideway	Construction - Production rates of Fixed Facility contracts are lagging planned results.	75%	4	4	4	16	16
75.03	West O'ahu/ Farrington Highway Guideway	ROW - Late turnover of ROW to contractor may result in delays to interim opening.	90%	5	4	2	15	15
83.06	City Center Guideway	Utilities - Due to court case, delay of utility easement identification for City Center Guideway may result in a delay of ROW acquisition and ultimately the start of construction.	75%	4	4	3	14	14
106.13	Airport Station Group	ROW - Right-of-way acquisition at Pearl Harbor may take longer due to Navy NEPA/Section 10b process requirements.	75%	4	3	4	14	14
129.13	Airport Station Group	Third Party - Potential delays at Pearl Harbor Station due to community actions concerning historical site (Navy).	75%	4	2	5	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 in the process of being mitigated.

Figure 20. Risks Added

Risks Added in February 2015							
Risk ID	Contract Package	Risk Description	Probability	Prob Rating	Cost Impact	Time Impact	Risk Rating
16.04	KHG	Permits and approvals by other agencies may not be provided in a timely manner and delay the project.	25%	2	1	2	3
37.15	Airport Utilities	Additional utility easements may be required for Military or private utility companies.	50%	3	3	2	7.5

Figure 21. Risks Deleted

Risks Deleted in February 2015					
Current Risk ID	Contract Package	Risk Description	Comments	Risk Rating	
				Feb. 15	Jan. 15
1.05	Airport Guideway	Escalation rates of commodities (concrete, freight, lumber and steel) may be higher than forecasted.	HART mitigation measures are limited to advance procurement of rail relative to commodities. Tracking commodities as an indicator of market conditions will continue to be monitored by HART.	10	10
1.06	City Center Guideway	Escalation rates of commodities (concrete, freight, lumber and steel) may be higher than forecasted.	HART mitigation measures are limited to advance procurement of rail relative to commodities. Tracking commodities as an indicator of market conditions will continue to be monitored by HART.	10	10
1.09	West Side Station Group	Escalation rates of commodities (concrete, freight, lumber and steel) may be higher than forecasted.	HART mitigation measures are limited to advance procurement of rail relative to commodities. Tracking commodities as an indicator of market conditions will continue to be monitored by HART.	10	10
1.16	Pearl Highlands Garage	Escalation rates of commodities (concrete, freight, lumber and steel) may be higher than forecasted.	HART mitigation measures are limited to advance procurement of rail relative to commodities. Tracking commodities as an indicator of market conditions will continue to be monitored by HART.	18	18
13.05	Airport Guideway	Ongoing/upcoming projects throughout the island may require modifications to utility relocation designs. (ie HDOT, HECO)	HART efforts with utility companies have led to successful mitigation of risk in coordination with utility companies through execution of agreements.	4	4
21.05	Airport Guideway	Strike by shipping contractors may impact delivery of materials.	HART risk has been transferred to the contractor who is in the best position to manage schedule and procurement of materials and shipment of equipment.	5	5
21.06	City Center Guideway	Strike by shipping contractors may impact delivery of materials.	HART risk has been transferred to the contractor who is in the best position to manage schedule and procurement of materials and shipment of equipment.	5	5
24.03	West Oahu/Farrington Highway Guideway	Insufficient HART resources to respond to contractors requests for change orders in a timely manner leads to force account and/or unilateral change orders.	HART roles and responsibilities have been clarified. Backlog of change orders have been caught up. Resources are adequate.	6	6
35.05	Airport Guideway	Due to court delays, limited geotechnical information available at PE level. Additional costs for redesign may be incurred.	Geotechnical data has been collected, designs were back checked and designs will be accessible to DB contractor.	9	9
35.13	Airport Station Group	Due to court delays, limited geotechnical information available at PE level. Additional costs for redesign may be incurred.	Geotechnical data has been collected, designs were back checked and designs will be accessible to DB contractor.	7.5	7.5
35.14	Dillingham Kaka'ako Stations	Due to court delays, limited geotechnical information available at PE level. Additional costs for redesign may be incurred.	Geotechnical data has been collected, designs were back checked and designs will be accessible to DB contractor.	1.5	1.5
122.01	Project wide	Breakdown of specialty equipment/ replacements not available locally.	HART has transferred risk to contractor who is in the best position to manage and control this risk.	4	4
133.13	Airport Station Group	Tolerance and/or dimension discrepancies between station structure and elevator/escalator requirements.	Issue was resolved through a workshop with E/E contractor.	7.5	7.5
134.13	Airport Station Group	Middle Street - Discrepancy in platform tolerance requirements for station construction in platform sections planned to be erected by the Guideway Contractor over Kalihi Stream.	Risk will be transferred to the DB contractor.	7.5	7.5
135.13	Airport Station Group	Incomplete construction scope and/or major discrepancies in station construction documents due to independent preparation by three different designers (station/ canopy/ median landscaping).	Risk will be transferred to the DB contractor either as reference drawings or as completed sealed plans or as unstamped completed plans.	6	6
168.18	Elevator/Escalator	Chinatown station configuration is not set and could pose an issue to the escalator/elevator contractor.	Workshop was held to resolve outstanding issues.	12.5	12.5

6.7 Community Outreach

- **Activities this month**
  - HART's public outreach team participated in 20 presentations, meetings and events this month, including meetings with businesses and residents along the rail route. In addition to business groups and community organizations, HART's community outreach included meetings with local realtors, the Chamber of Commerce, rotary clubs and several Neighborhood Boards. Construction progress and information regarding the project's finances were the key issues discussed.
  - HART's Executive Director and CEO Dan Grabauskas began a series of monthly appearances on Hawaii News Now's Sunrise morning program, where he provided the latest information on construction progress and answered questions regarding the project's finances. HART's CEO will appear on the television morning show program every fourth Thursday of each month, where he will answer questions from the media and from the public.

To date, HART's outreach team has participated in:
- *1,765 presentations and events*
- *959 Neighborhood Board meetings*

Figure 22. HART's public outreach team participated in a Saturday workshop offered to businesses along the route.

HART's public outreach included the Small Business Fair, which drew more than 200 attendees. HART partners with the Small Business Administration, the Mink Center for Business & Leadership, and the City's Office of Economic Development for its business outreach programs.

Figure 23. HART's Executive Director and CEO Dan Grabauskas debuts his monthly appearance on a local morning television program.

HART Executive Director and CEO Dan Grabauskas appeared on Hawaii News Now's Sunrise morning show in the first in a series of scheduled monthly appearances to provide information on the project's progress and its finances.

- **Construction Outreach**
  - HART was one of the featured exhibitors at this year's Hawaii Small Business Fair held at Leeward Community College this month. More than 200 small businesses attended the event. As part of HART's business outreach efforts, our outreach team met with business owners and managers to answer questions about the rail project and signed up businesses to receive HART's weekly construction and traffic notices. We also provided information regarding the Rail Operations Center and HART's work with Leeward Community College on a new job prep engineering curriculum. HART's business resource partners also participated at the event, including Small Business Administration, Mink Center for Business & Leadership, Small Business Development Center, and the State Department of Transportation.
  - Construction outreach this month included several meetings with businesses along the alignment, including businesses in the Aiea-Pearl City area, and in Kakaʻako. HART's outreach team also held another Business Alliance meeting, to provide construction updates and information on traffic changes.
  - Realizing traffic is an important concern HART's efforts to keep the public informed through regular traffic updates are provided to the media, weekly press releases and providing real-time traffic updates using social media remains strong.

- **Community Input**
  - HART's public information team responded to more than 165 inquiries and requests in February that came in via the agency's website, email and 24-hour hotline. Inquiries this month primarily focused on construction activities, including traffic and questions about the project's finances.

- **Look Ahead**
  Coming in March:
  - Meetings for businesses and the community along the rail alignment to provide construction and traffic updates.
  - Presentations and community events to provide construction updates and reports on the project's finances.

6.8 Staffing

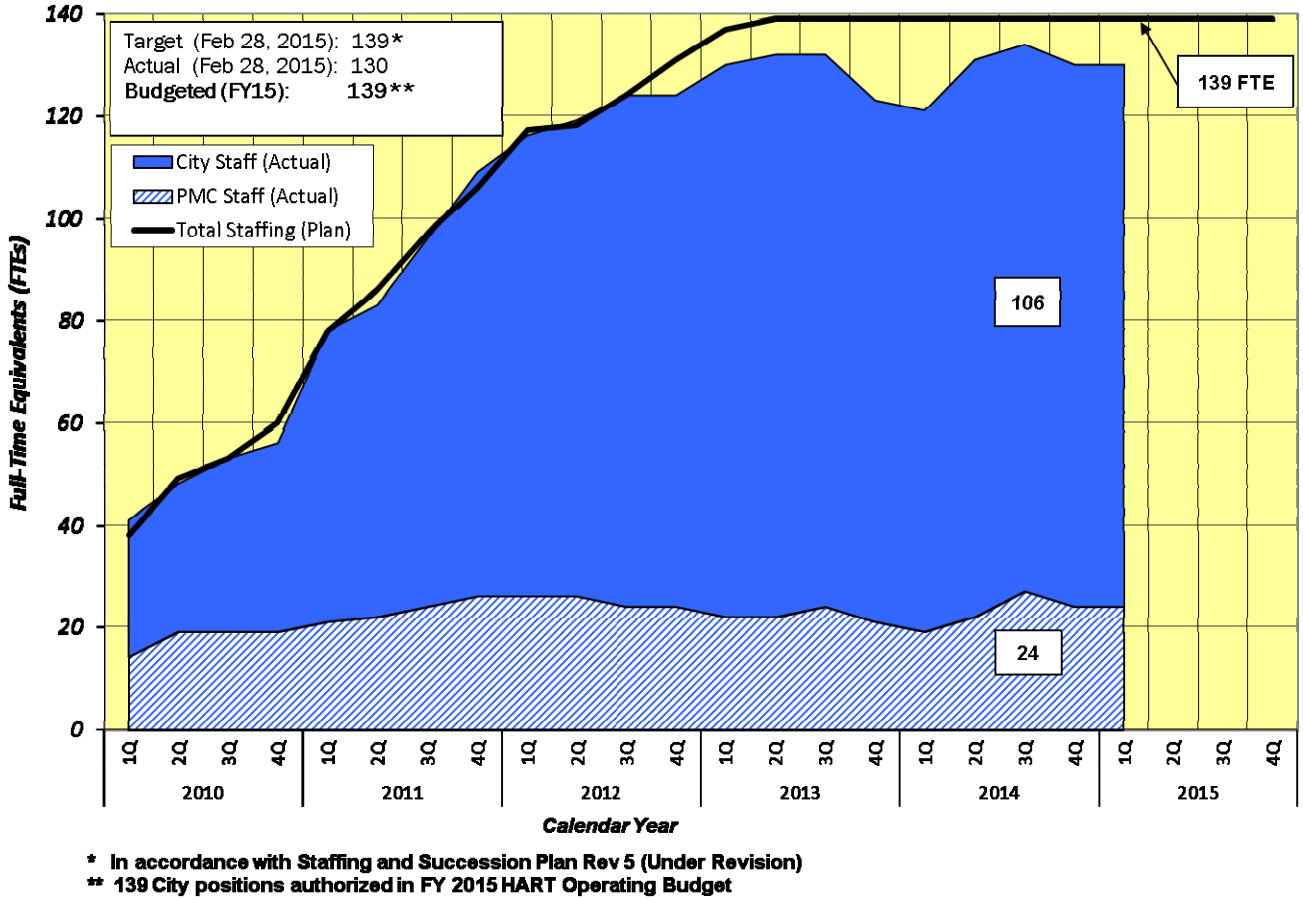
Figure 24. Staffing Activities

Staffing Activities				
Title	Group	New/Existing HART position (City or PMC)	Position Status	Start Month
Executive Management				
Senior Clerk (Receptionist)	Executive Management	Existing (City)	Recruiting via Civil Service	
Design and Construction				
Assistant Project Manager	Construction (KHG)	New (City)	Recruiting	
Assistant Project Manager	Construction (WOFH)	New (City)	Recruiting	
HECO Coordinator	Design & Construction	Existing (City)	Creating Position/Recruiting	
Electrical Engineer	Core Systems	Existing (City)	Recruiting	
Budget and Finance				
Budget Analyst	Budget and Finance	New (City)	Recruiting/Interviewing	
Procurement				
Deputy Director of Procurement & Contracts	Procurement & Contracts	Existing (City)	Recruiting	
Contract Administration and Change				
Transit Contracts Manager* (2)	Contract Administration and Change Management	Existing (City)	Tentative offers accepted	Mar
Planning, Permits & Right-of-Way				
Planner V* (Land Use)	Planning	Existing (City)	Recruiting via Civil Service	
Planner III* (Environmental)	Planning	Existing (City)	Recruiting	
Right-of-Way Agent/Planner	Right-of-Way	PMSC temp, transition to City in Mar 2015	Filled	Mar
Administrative Services				
Personnel Clerk	Administrative Services	New (City)	Recruiting via Civil Service	

*Per 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 25. 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 G.

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 information and resolution on HECO's 50-foot offset requirement	HART	Mar-14	Mar-15		On-going – Boom truck equipment was delivered in September 2014 and field testing began in October 2014. HECO evaluating site specific locations where truck may not fully address their requested clearance. HART provided a letter to HECO regarding the lease arrangement of the item.
2	Resolve issue with AHJV regarding cost savings associated with change to 4-car trains	HART	Mar-14	May-15		Open – on-going
3	Resolve HECO issue with Davis-Bacon requirements	HART/FTA	Mar-14	Mar-15		Open – HECO waiver is pending. HART provided MOU to PMOC.
3	**Updates resulting from Risk Refresh:**					
4a	Update the Contract Packaging Plan	HART	Aug-14	Feb-15		In progress. Draft circulating for internal HART review
4b	Re-baseline Financial Plan	HART	Apr-14	Mar-15		In progress
4c	Re-baseline budget	HART	Apr-14	Apr-15		In progress
4d	Re-baseline MPS	HART	Apr-14	Apr-15		In progress
4f	Update RCMP (including Hold Points and Secondary Mitigation Measures)	HART	Sept-13	Mar-15		In progress – Conference call to be scheduled following receipt of updated RCMP
5	HART to implement plan to address conflict of interest with AECOM acquisition of URS	HART	Jul-14	Mar- 15		Open
6	HART to provide to PMOC letters regarding contract status	HART	Dec-14	Mar-15		Pending
7	Prepare a Decision Matrix to track key milestone events	HART	Jan- 15	Feb-15		In progress – Matrix was discussed at Feb 2015 meeting
8	Track Cost Containment measures each month at the Cost Containment workshops to evaluate/measure proposed cost containment measures	HART	Jan-15	On-Going		In progress – Matrix was discussed at Feb 2015 meeting
9	Prepare a Vehicle Status Chart to track the production status of all 80 rail transit vehicles	HART	Jan-15	Feb-15		In progress
10	Provide confirmation of the status of the approval of the Interstate Access Management Report (activity includes HDOT/FHWA action)	HART	Jan- 15	Prior to Bid of applicable elements		
11	MPS Workshop	HART/ PMOC	Feb-15	Mar-15		To be scheduled when Preliminary Update of MPS is available.
12	Provide General Condition and Special Provisions prior to RFP issuance for Airport Guideway and Stations DB Contract	HART	Feb-15	Mar-15		

Appendix B. Project Contingency Management General Background and Clarifications

Current Contingency Balance = $519.8M

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 changes being considered for each contract. Changes are tracked by four 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) is complete. It is consistent with the FFGA submittals, including the CPP, MPS, Project Budget and Financial Plan. The RCMP includes 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, the majority of the change orders executed since the BUE draws against this contingency since these were partially defined already.

HART Project Contingency Drawdown with Details

Data as of 01/29/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown ($M)	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-976	LEED Commissioning Services	Budget Transfer for Contract Award above the LEED Comm. Services contract budget	($36,823)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Budget Transfer for Contract Award above the KHG DB contract budget	($220,383)	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	$1,838,200	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	$227,794	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	($120,640)	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	($16,981)	90.02 - Allocated Contingency
			January '13 Contingency Drawdown	**($16,981)**	
			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. 28 - 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	($3,835)	90.03 - Contract Allowance
2)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 06 - Ins. Covg Requirements/ Dbl Crossovers Insulated Joints	($464,926)	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	($81,313)	90.03 - Contract Allowance
2)	DB-120	West Oahu Farrington Highway Guideway DB	Budget Transfer to offset Ins. Covg Requirement for Change Order No. 28	$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	$500	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**	

HART Project Contingency Drawdown with Details

Data as of 01/29/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
	N/A	N/A	No Contingency Drawdown	$0	
			June '13 Contingency Drawdown	**$0**	
			June '13 - Ending Contingency Balance	**$654.3**	
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	($23,301,857)	90.02 - Allocated Contingency/ 90.01 - Unallocated Contingency
5)	FD-550	Dillingham and Kaka'ako Stations Group FD	Budget Transfer for Contract awarded under DKSG FD contract budget	$1,157,780	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	($1,800,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu/Farrington Highway Guideway DB	Budget Transfer for Change Order No. 038 for Ins. Covg. Requirements	$1,800,000	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 014 - Preliminary Design & Supplemental Project Management 2	($214,946)	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	($532,800)	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	**($4,947,851)**	
			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-280	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**	

HART Project Contingency Drawdown with Details

Data as of 01/29/15

#	Project No	Project Desc	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
		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	($11,497)	90.02 - Allocated Contingency
3)	MM-810	GECII	Budget Transfer for Contract Award - Archeological & Cultural Monitoring & Core Systems Support contracts	($4,424,173)	90.02 - Allocated Contingency
4)	MM-980	Archeological & Cultural Monitoring	Budget Transfer for Contract Award - Archeological & Cultural Monitoring contract	$36,781	90.02 - Allocated Contingency
5)	MM-982	Core Systems Support	Budget Transfer for Contract Award - Core Systems Support contract	$4,398,889	90.02 - Allocated Contingency
			February '14 Contingency Drawdown	**($132,900)**	
			February '14 - Ending Contingency Balance	**$608.2**	
		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	($80,243)	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	($1,580,014)	90.03 - Contract Allowance
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 016 - Rail Lubricators	($132,000)	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	($12,400,538)	90.02 - Allocated Contingency
8)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 041 - Revised Track Alignment and Profile	($46,938)	90.02 - Allocated Contingency
9)	DB-120	West Oahu Farrington Highway Guideway DB	Executed Change Order No. 042 - Sandwich Isles Communications Utility Relocation @ North South Rd	($798,943)	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. 009 - APEC work restrictions/abandoned utilities removal	($535,874)	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	$887,054	90.02 - Allocated Contingency
5)	MM-815	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	($9,313)	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	**($22,316,016)**	
			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. 009 - Platform Screen Gates Mobilization	($308,194)	90.02 - Allocated Contingency
2)	ROW	Real Estate/Rights-of-Way	Budget Transfer for Contract Award above the Real Estate Map & Survey budget	($1,348,812)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Budget Transfer to Project Contingency from remaining "known" Changes balance	$1,007,869	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	($1,928,000)	90.02 - Allocated Contingency
2)	FD-140	West Oahu Stations Group FD	Executed Amendment No. 006 - Passenger screen gates	($90,233)	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	$470,323	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	($473,583)	90.02 - Allocated Contingency
3)	DB-200	Maintenance & Storage Facility DB	Executed Change Order No. 028 - Insurance Coverage Requirements 2014	($1,112,930)	90.02 - Allocated Contingency
4)	DB-320	Kamehameha Highway Guideway DB	Executed Change Order No. 011 - Revised Vehicle Criteria/Construction Safety Security Plan	($231,510)	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	($3,850,000)	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	($271,350)	90.02 - Allocated Contingency

HART Project Contingency Drawdown with Details

Data as of 01/29/15

#	Project No.	Project Desc.	Budget Transfer/Change Description	Contingency Drawdown (+/-)	Contingency Code
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	($71,811)	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	($62,722)	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
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	($768,758)	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	**$542.49**	
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	**($18,713,715)**	
			December '14 - Ending Contingency Balance	**$523.78**	
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	($484,413)	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	($716,855)	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	($430,017)	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	**$519.79**	
***January '15 - Board Approved Changes Only - Pending execution**					
1)	DBOM-920	Core Systems Contract Design Build O/M	Test and Storage Track Changes at MSF	($2,510,000)	90.02 - Allocated Contingency
2)	DB-120	West Oahu Farrington Highway Guideway DB	Procure & deliver Modular Buildings to LCC (Conditionally Approved)	($1,919,021)	90.01 - Unallocated Contingency
			Subtotal Board Approved Contingency Drawdown	**($4,429,021)**	
			February '15 - Ending Contingency Balance (Pending Execution)	**$515.4**	

Appendix C. Project Cost Reports (data as of Jan. 30, 2015)

Project Costs by Contract

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

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2015

Project Monthly Cost Report by Contract - One Line Summary

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CPP No	Title		A	B	C=A+B	D	E	F
			COMMITTED			AFE	INCURRED	PERCENT
			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	136,476,447	619,400,447	619,400,447	362,186,350	58%
DB-200	Maintenance & Storage Facility DB	SOM	195,258,000	79,100,008	274,358,008	207,388,742	171,594,297	63%
DB-320	Kamehameha Hwy Guideway DB	SOM	372,150,000	16,365,363	388,515,363	388,515,363	131,817,119	34%
DBB-185	West Side SG Construction	SOV	0	0	0	0	0	0%
DBB-275	Pearl Highlands Pkg. Str Cnstr. OLD	SOV	0	0	0	0	0	0%
DBB-470	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	27,383,022	0	0%
DBB-510	City Center Section Utilities Cnstr.	SOV	0	0	0	0	0	0%
DBB-520	Airport-City Center Guideway Cnstr.	SOV	0	0	0	0	0	0%
DBB-525	Airport Section Guideway 7 Pier Cnst	SOV	3,973,000	0	3,973,000	3,973,000	0	0%
DBB-580	Dillingham/Kaka'ako SG Contruction	SOV	0	0	0	0	0	0%
DBB-600	UHWO PnR/Hoopili Stn Finishes Cnstr.	SOV	0	0	0	0	0	0%
DBOM-920	Core Systems Design Build O/M	SOM	573,782,793	21,357,205	595,139,998	579,224,986	112,785,639	19%
FD-140	West Oahu Station Group Final Design	SOM	7,789,000	1,771,305	9,560,305	8,293,505	7,958,160	83%
FD-240	Farrington Highway Stations Group 2	SOM	9,300,696	4,897,349	14,198,045	12,990,376	12,332,344	87%
FD-245	Pearl Highlands Pkg. Str. FD OLD	SOM	0	0	0	0	0	0%
FD-340	Kamehameha Hwy Station Group FD	SOM	8,702,592	0	8,702,592	8,004,436	7,866,141	90%
FD-430	Airport Sect. Guideway/Utilities FD	SOM	38,840,960	3,769,872	42,610,832	42,610,832	37,927,194	89%
FD-440	Airport Station Group FD	SOM	10,177,365	1,224,840	11,402,205	10,352,862	9,718,742	85%
FD-530	City Center Guideway/Utilities FD	SOM	43,948,220	1,282,803	45,231,023	42,614,702	36,688,628	81%
FD-550	Dillingham and Kaka'ako SG FD	SOM	18,321,918	652,529	18,974,447	15,339,142	10,396,963	55%
FD-600	UHWO Pkg-Hoopili Station Finishes FD	SOM	0	0	0	0	0	0%
HRT-200	HART Labor		35,951,942	0	35,951,942	0	34,646,052	96%
HRT-201	HART ODC		15,759,154	0	15,759,154	0	13,330,136	85%
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	3,439,172	7%
MM-280	WOFH/KHSG CE&I (REPACKAGED)	CPFF	0	0	0	0	0	0%

* 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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HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2015

Project Monthly Cost Report by Contract - One Line Summary

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CPP No	Title		A Original	B COMMITTED Changes	C=A+B Current *	D AFE AFE**	E INCURRED Incurred To Date	F PERCENT %
MM-290	Construction Engrg & Inspection West	CPFF	54,232,480	0	54,232,480	16,650,000	8,732,010	16%
MM-385	Pearl Highlands Garage and Ramps CEI	CPFF	0	0	0	0	0	0%
MM-500	Repackaged into MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-525	Repackaged into MM959 CEI East	CPFF	0	0	0	0	0	0%
MM-590	Repackaged into 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	6,165,986	10%
MM-600	UHWO Pkg-Hoopili Stn Finishes 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	0	33,376,897	26,680,790	27,655,413	83%
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	149,307,153	100%
MM-913	MM-913 Gen Engrg Recompete	CPFF	46,143,277	0	46,143,277	13,078,208	12,555,166	27%
MM-915	HDOT Traffic Mgmt. Consult.	T&M	1,600,000	1,400,000	3,000,000	3,000,000	2,005,401	67%
MM-920	HDOT Coordination Consit WOFH	T&M	3,000,000	7,500,000	10,500,000	10,000,000	5,965,422	57%
MM-921	HDOT Coordination Consit KHG	T&M	10,000,000	-1,400,000	8,600,000	5,000,000	2,622,115	30%
MM-922	HDOT Coord. Consit. Airport	T&M	12,000,000	-5,600,000	6,400,000	3,000,000	1,796,268	28%
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	815,633	1,153,243	210%
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	634,987	34%
MM-935	Real Estate Consultant	T&M/Tz	3,000,000	3,327,665	6,327,665	4,817,665	2,895,058	46%
MM-937	Real Estate Consultant - Maps/Surv.	CPFF	2,998,000	0	2,998,000	1,500,000	459,223	15%
MM-940	Kako'o Consultant	T&M/Tz	1,000,000	0	1,000,000	500,000	434,380	43%
MM-945	On-Call Contractor	T&M/Tz	1,000,000	1,000,000	2,000,000	1,800,000	533,841	27%
MM-946	On-Call Hazmat Removal Contractor	T&M/Tz	3,075,000	0	3,075,000	1,000,000	1,743,339	57%
MM-950	OCIP Consultant	FFF	1,250,000	0	1,250,000	883,750	781,719	63%
MM-951	Owner-Controlled Insurance Program	FFF	41,000,000	0	41,000,000	0	19,574,745	48%
MM-960	Archeological & Cultural Monitoring	T&M	459,517	0	459,517	417,426	61,779	13%
MM-962	CORE Systems Support	CPFF	43,988,989	0	43,988,989	3,600,000	5,883,474	13%
MM-964	Safety and Security	FFF	4,699,573	0	4,699,573	1,200,000	1,157,679	25%
MM-975	LEED Commissioning Services for MSF	T&M	278,630	9,910	288,540	288,540	58,680	20%
OTHER	Project Wide		0	0	0	0	0	0%
PA-101	Programmatic Agreement Humanities	PA	0	0	0	0	0	0%

* Current Committed = Original Contract + CCO/Amendment

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2015

Project Monthly Cost Report by Contract - One Line Summary

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CPP No	Title		A	B	C=A+B	D	E	F
			COMMITTED			AFE	INCURRED	PERCENT
			Original	Changes	Current *	AFE**	Incurred To Date	%
PA-102	Programmatic Agreement HPC	PA	400,000	0	400,000	200,000	44,032	11%
PA-103	Programmatic Agreement HPC Park Impr	PA	0	0	0	0	0	0%
ROW	Real Estate / Right-of-Way		91,254,663	0	91,254,663	121,992	78,773,347	86%
UTIL	Utilities by Utility Companies	T&M	90,560,619	4,530,107	95,090,727	71,404,049	14,341,671	15%
Total Project:			**2,611,557,379**	**356,813,487**	**2,968,370,866**	**2,403,866,744**	**1,388,307,046**	

* 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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Project Costs by SCC – Summary

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

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2015

Project Monthly Cost Report by SCC Summary

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SCC	Title	A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
		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	39,357,677	1,153,572,824	539,777,407	30,036,846	0	1,153,572,824	0	131,790,527
20.	Stations,Stops,Terminals,Intermodal	421,804,740	(25,138,472)	396,666,268	50,982,714	0	0	396,666,268	0	3,439,172
30.	Support Facilities:Yards,Shops,Admin	92,535,015	21,771,122	114,306,137	114,306,137	17,962,473	0	114,306,137	0	54,745,769
40.	Sitework & Special Conditions	983,178,121	50,250,666	1,033,428,787	717,671,904	158,317,796	3,106,244	1,033,428,787	0	368,169,360
50.	Systems	221,284,301	25,296,231	246,580,532	232,420,319	27,038,099	0	246,580,532	0	15,952,818
60.	ROW, Land, Existing Improvements	197,397,947	528,621	197,926,568	94,584,483	329,820	5,000,000	197,926,568	0	81,946,203
70.	Vehicles	186,829,020	4,713,997	191,543,017	191,543,017	1,514,720	(68,496)	191,543,017	0	21,203,394
80.	Professional Services	1,087,830,119	6,976,145	1,094,806,264	1,015,358,152	118,709,136	(12,538,258)	1,094,806,264	0	651,455,688
A.C.	Provisional Pay Requests	0	0	0	0	0	0	0	0	59,035,994
Subtotal:		4,305,074,410	123,755,987	4,428,830,397	2,956,644,134	353,908,890	(4,500,510)	4,428,830,397	0	1,387,738,925
2. NTP										
NTP	Authorized For Expediture	0	0	0	0	2,043,356,815	0	0	0	0
Subtotal:		0	0	0	0	2,043,356,815	0	0	0	0
3. Contingency										
CNTR	Allocated Contingency	541,689,343	(70,866,787)	471,422,556	11,726,732	6,601,239	206,642,545	471,422,556	0	568,121
PRJ	Unallocated Contingency	101,871,170	(53,489,200)	48,381,970	0	0	0	48,381,970	0	0
Subtotal:		643,560,513	(123,755,987)	519,804,526	11,726,732	6,601,239	206,642,545	519,804,526	0	568,121
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	2,968,370,866	2,403,866,744	202,142,035	5,121,693,166	0	1,388,307,046
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	2,968,370,866	2,403,866,744	202,142,035	5,163,693,166	0	1,388,307,046

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

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

Report: N_CM_pmoc_monthly_Scc_summary - No. 22

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Project Costs by SCC – Level 2

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

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2015

Project Monthly Cost Report by SCC Details

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		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	39,357,677	1,153,572,824	539,777,407	39,036,846	0	1,153,572,824	0	131,790,527
10.04	Guideway: Aerial Structure	1,022,380,671	36,381,516	1,058,762,187	454,474,570	20,375,119	0	1,058,762,187	0	92,854,750
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	38,935,777
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	50,982,714	0	0	396,666,268	0	3,439,172
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	0	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	3,439,172
30. Support Facilities:Yards,Shops, Admin		92,535,015	21,771,122	114,306,137	114,306,137	17,962,473	0	114,306,137	0	54,745,769
30.02	Light Maintenance Facility	7,591,888	(5,095)	7,586,793	7,586,793	0	0	7,586,793	0	929,461
30.03	Heavy Maintenance Facility	38,099,138	4,595,814	42,694,952	42,694,952	4,837,922	0	42,694,952	0	15,554,303
30.04	Storage or Maintenance of Way Buil	7,797,460	964,571	8,762,031	8,762,031	1,026,121	0	8,762,031	0	1,899,430
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	36,362,575
40. Sitework & Special Conditions		983,178,121	50,250,666	1,033,428,787	717,871,904	158,317,796	3,106,244	1,033,428,787	0	368,169,360
40.01	Demolition, Clearing, Earthwork	29,980,158	(1,741,059)	28,239,099	8,589,446	692,302	0	28,239,099	0	241,537
40.02	Site Utilities, Utility Relocation	299,449,756	8,893,545	308,343,301	200,229,191	11,140,627	3,497,548	308,343,301	0	33,150,453
40.03	Haz. mat'l, contam'd soil removal	9,199,237	(5,421,634)	3,777,603	3,091,085	16,085	(391,304)	3,777,603	0	1,759,424
40.04	Environmental Mitigation	26,979,122	4,976,801	31,955,923	16,543,497	2,689	0	31,955,923	0	6,836,521
40.05	Site structures, retaining walls,	7,998,960	1,134,077	9,133,037	8,974,511	71,663	0	9,133,037	0	1,195,589
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	(10,796,852)	171,182,515	36,270,071	1,501,555	0	171,182,515	0	3,345,146
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	321,590,690
50. Systems		221,284,301	25,296,231	246,580,532	232,420,319	27,038,099	0	246,580,532	0	15,952,818
50.01	Train control and signals	81,982,556	23,381,140	105,363,696	106,363,696	23,961,050	0	105,363,696	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	342,747
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	8,018,935
50.05	Communications	53,691,339	6,133,477	59,824,816	59,824,816	5,573,419	0	59,824,816	0	6,472,065

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Report: M_CMI_pmcc_monthly_scc_details - No. 23

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HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 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	25,296,231	246,580,532	232,420,319	27,038,099	0	246,580,532	0	15,952,818
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	94,584,483	329,826	5,000,000	197,926,568	0	81,946,203
60.01	Purchase or lease of real estate	179,360,664	250,821	179,611,485	87,628,735	52,020	5,000,000	179,611,485	0	75,096,819
60.02	Relocation of existing households	18,037,283	277,800	18,315,083	6,955,748	277,800	0	18,315,083	0	6,849,384
70. Vehicles		186,829,020	4,713,997	191,543,017	191,543,017	1,514,720	(68,490)	191,543,017	0	21,203,394
70.01	Light Rail	166,721,386	5,915,687	172,637,073	172,637,073	1,514,720	(68,490)	172,637,073	0	14,473,908
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	6,976,145	1,094,806,264	1,015,358,152	118,709,136	(12,458,258)	1,094,806,264	0	651,455,688
80.01	Preliminary Engineering	94,055,262	24,644,185	118,699,447	109,567,127	20,905,682	0	118,699,447	0	101,098,184
80.02	Final Design	228,321,632	(10,200,560)	218,121,072	200,019,090	25,104,663	2,645,756	218,121,072	0	144,458,731
80.03	Project Management Design & Cons	363,849,768	(44,051,182)	319,798,586	354,880,099	65,946,774	(17,323,901)	319,798,586	0	270,478,015
80.04	Constr. Admin. & Management	199,656,728	(37,880,893)	161,775,836	156,511,375	2,126,743	1,919,021	161,775,836	0	61,294,118
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	21,315,763
80.06	Legal; Permits,Review Fees ect..	67,641,005	(211,086)	67,429,919	35,564,005	2,516,420	0	67,429,919	0	16,670,297
80.07	Surveys, Testing, Investigation, I	21,759,336	46,124,427	67,883,763	66,772,822	446,446	996,675	67,883,763	0	19,850,159
80.08	Start up	65,996,664	(230,685)	65,765,980	48,868,977	961,909	(775,809)	65,765,980	0	16,290,421
A.C. Provisional Pay Requests		0	0	0	0	0	0	0	0	59,035,994
ACR	Provisional Request For Payment	0	0	0	0	0	0	0	0	59,035,994
Subtotal:		4,305,074,410	123,755,987	4,428,830,397	2,956,644,134	353,908,890	(4,500,510)	4,428,830,397	0	1,387,738,925
2. NTP										
NTP Authorized For Expediture		0	0	0	0	2,043,356,615	0	0	0	0
NTP	Notice To Proceed	0	0	0	0	2,043,356,615	0	0	0	0
Subtotal:		0	0	0	0	2,043,356,615	0	0	0	0
3. Contingency										
CNTR Allocated Contingency		541,689,343	(70,266,767)	471,422,556	11,726,732	6,601,239	206,642,545	471,422,556	0	568,121
90.02	Allocated Contract Contingency	540,101,329	(73,169,267)	466,932,063	6,601,239	6,601,239	198,514,312	466,932,063	0	568,121

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HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: January 2015

Project Monthly Cost Report by SCC Details

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SCC	Title	A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
		Baseline	Transfers	Current	Current *	AFE **	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
3. Contingency										
CNTR	Allocated Contingency	541,889,343	(70,466,787)	471,422,556	11,726,732	6,601,239	206,642,545	471,422,556	0	568,121
90.03	Allowances	1,588,014	2,902,479	4,490,493	5,125,494	0	8,128,233	4,490,493	(0)	0
90.07	Known Change Contingency	0	0	0	0	0	0	0	0	0
PRJ	Unallocated Contingency	101,871,170	(53,489,200)	48,381,970	0	0	0	48,381,970	0	0
90.01	Unallocated Project Contingency	101,871,170	(53,489,200)	48,381,970	0	0	0	48,381,970	0	0
Subtotal:		643,560,513	(123,755,987)	519,804,526	11,726,732	6,601,239	206,642,545	519,804,526	0	568,121
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**	**2,968,370,866**	**2,403,866,744**	**202,142,035**	**5,121,693,166**	**0**	**1,388,307,046**
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**	**2,968,370,866**	**2,403,866,744**	**202,142,035**	**5,163,693,166**	**0**	**1,388,307,046**

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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 01 '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	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	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 9 '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 '15
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	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	Jul 01 '17
MM-920	HDOT Design Coordination Consultant - West O'ahu/Farrington	AECOM Technical Services, Inc.		Jun 7 '11	Jun 08 '11	Jun 15 '18
MM-921	HDOT Design Coordination Consultant - Kamehameha Highway	AECOM Technical Services, Inc.		Jun 28 '12	Jun 29 '12	Jul 15 '15
MM-922	HDOT Design Coordination Consultant - Airport and City Center	SSFM International, Inc.		Jun 8 '12	Jun 12 '12	Jun 15 '18
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
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	TBD

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
DB-275	Pearl Highlands Parking Structure / Bus Transit Center	Mar 03 '14	Jun 03 '14	TBD	TBD	TBD
DBB-271	Farrington Hwy Stations Group Construction	Dec 19 '14	Mar 03 '15	-	Apr 06 '15	Aug 31 '17
DBB-385	Ramp H2R2	Jan 30 '15	Mar 24 '15	-	Apr 27 '15	May 31 '16
MM-970	Fare Collection System Technical Support Consultant	Mar 11 '15	Apr 17 '15	-	TBD	TBD
DB-450	Airport Guideway and Stations	Apr 02 '15	Jun 02 '15	Dec 15 '15	Feb 1 '16 May 2 '16	Jun 28 '19
DBB-171	West O'ahu Stations Group Construction	Apr 13 '15	Jun 16 '15	-	Jul 08 '15	Nov 30 '17
DBB-510	City Center Utilities	Jun 01 '15	Aug 20 '15	-	Oct 01 '15	Mar 31 '17
DB-550	City Center Guideway and Dillingham Kaka'ako Stations	Aug 04 '15	Oct 01 '15	Apr 15 '16	Jun 1 '16 Nov 1 '16	Nov 29 '19
DBB-371	Kamehameha Hwy Stations Group Construction	Aug 18 '15	Nov 03 '15	-	Dec 01 '15	Aug 31 '18
MM-xxx	Core Systems Back-up Generators	Jan 01 '16	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
	Faregate Systems	TBD	TBD	TBD	TBD	TBD
	Photovoltaic	TBD	TBD	TBD	TBD	TBD
MM-947	On-Call Construction Contractor II	TBD	TBD	TBD	TBD	TBD

Appendix E. 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 2/28/15)						
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	$15,456	$15,456
PAC Electric	238210	APA	F	CT-HRT-10H0137 DB-120	$2,730,278	$2,730,278
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	$92,562	
				SC-HRT-1400049 MM-962	$151,398	$5,627,699
Lawson & Associates	541690	O	F	SC-HRT-11H0131 MM-905	$740,962	
				SC-DTS-0700001 **** MM-910	$150,141	
				SC-HRT-1400061 MM-964	$478,998	$1,370,101
Gary K. Omori	541618	APA	M	SC-HRT-11H0131 MM-905	$388,609	
				SC-DTS-0700001 **** MM-910	$392,920	$781,529
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	

DBE Participation (9/24/07 to 2/28/15)						
DBE Firm	NAICS Code	Race	Sex	Contract Number	Participation to Date	Total DBE Participation
				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	$25,020	$25,020
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	$3,239,360	$3,239,360
AMR Estimating Services ***	541330	HA	M	SC-HRT-11H0131 MM-905	$135,281	
				SC-HRT-1400027 MM-913	$287,479	$422,760
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	$27,514
Element Environmental	541620	APA	M	SC-HRT-1400050 MM-290	$387,544	$387,544
PSC Consultants	541330	APA	M	SC-HRT-1400050 MM-290	$4,477	$4,477
Bow Construction Management	541330	APA	M	SC-HRT-1400050 MM-290	$108,015	$108,015
FIC, LLC	541611	APA	M	SC-HRT-1400051 MM-595	$454,154	$454,154
The Solis Group	541620	O	F	SC-HRT-1400027 MM-913	$365,592	$365,592
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	$531,221	$531,221
Total						**$20,757,577**

** 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 F. Risk

Risk by Contract Package				
Contract Packages	Jan. 2015 # of Risks	February 2015 Update		
		Total # of Risks	New Risks	Deleted Risks
Project Wide	5	4	0	1
WOFH Guideway	22	21	0	1
Pearl Highlands	6	5	0	1
Maintenance and Storage Facility	5	5	0	0
Kamehameha Highway Guideway	23	24	1	0
Core Systems Contract	10	10	0	0
Elevator/Escalator	3	2	0	1
Airport Utilities	2	3	1	0
West Side Stations	16	15	0	1
Airport Guideway	31	27	0	4
City Center Guideway	43	41	0	2
Airport Section Stations	26	22	0	4
City Center Section Stations	14	13	0	1
Total	**206**	**192**	**2**	**16**

Notes of Significance:

1) Contract Packaging Plan allows for design completion and/or risk transfer of several design issues to the contractor.

2) Geotechnical data collection risk has been back checked.

3) Commodity pricing is not being tracked as a project risk per discussions with PMOC. Prices will be tracked and reported to the HART Board.

Comparison of Risk Ratings								
Contract Package/Section	January 2015 # of Risks				February 2015 Update # of Risks			
	Total	High	Medium	Low	Total	High	Medium	Low
Project Wide	5	1	3	1	4	1	2	1
WOFH Guideway	22	4	11	7	21	4	10	7
Pearl Highlands	6	1	5	0	5	0	5	0
Maintenance and Storage Facility	5	0	4	1	5	0	4	1
Kamehameha Highway Guideway	23	2	16	5	24	3	15	6
Core Systems Contract	10	1	4	5	10	1	4	5
Elevator/Escalator	3	1	2	0	2	0	2	0
Airport Utilities	2	0	2	0	3	0	3	0
West Side Stations	16	5	10	1	15	3	11	1
Airport Guideway	31	7	22	2	27	3	21	3
City Center Guideway	43	14	24	5	41	9	27	5
Airport Stations	26	4	20	2	22	4	17	1
City Center Stations	14	1	11	2	13	0	11	2
Total	**206**	**41**	**134**	**31**	**192**	**28**	**132**	**32**

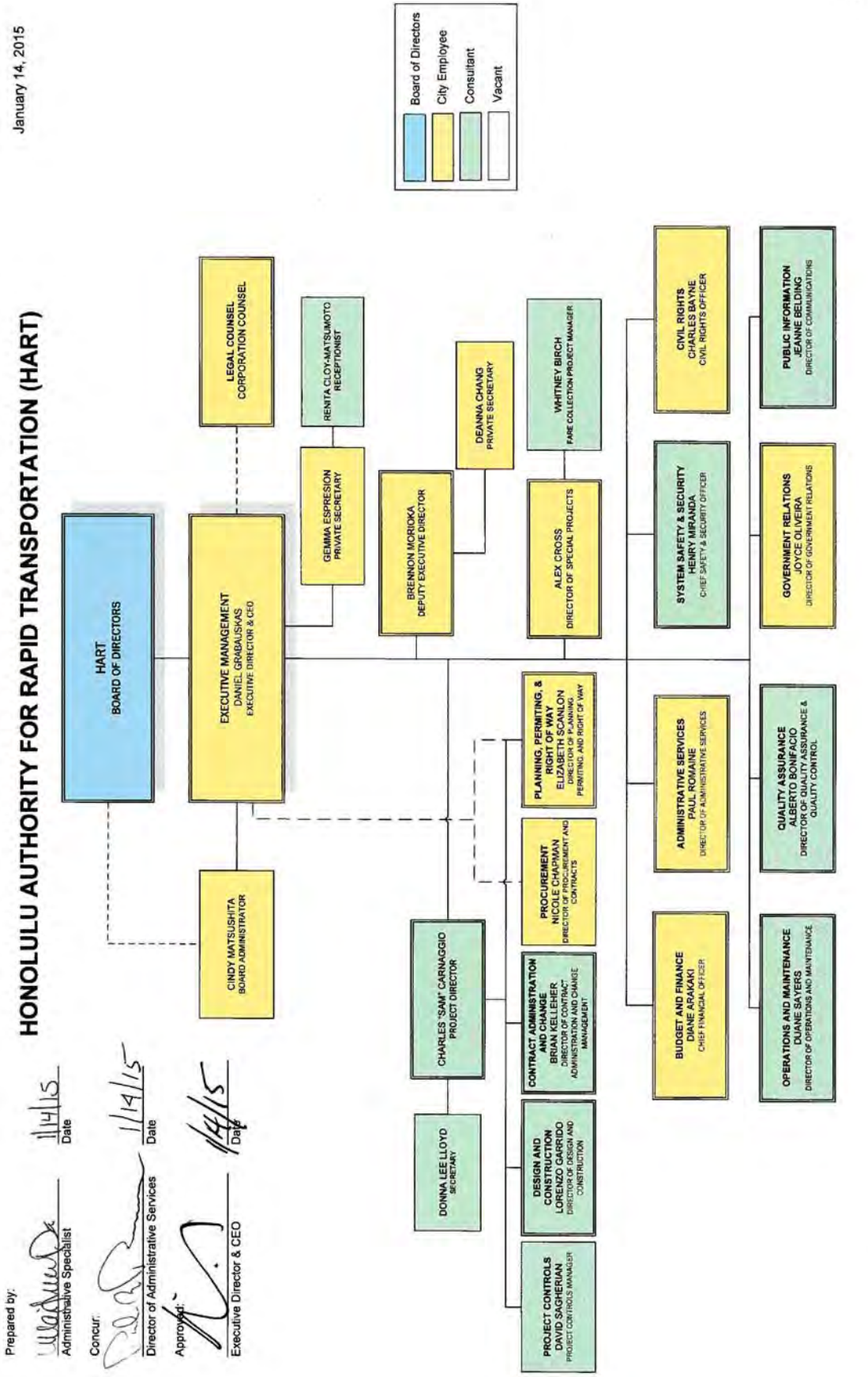
Notes:

1) Risks associated with the market, right-of-way, utilities and third parties top the list of concerns. There is a tradeoff in time to clear out issues verses going to market through procurement.

2) Kamehameha Highway Guideway production rates are behind schedule.

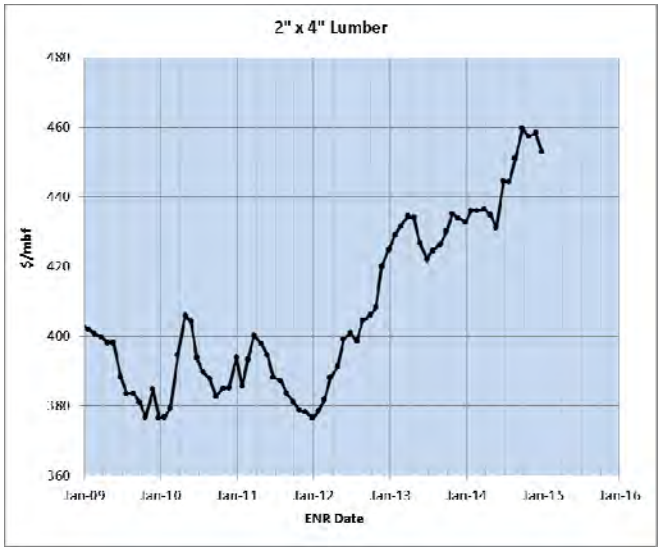
3) Construction market escalation rates are exceeding forecast and FFGA budget. Cost containment is critical.

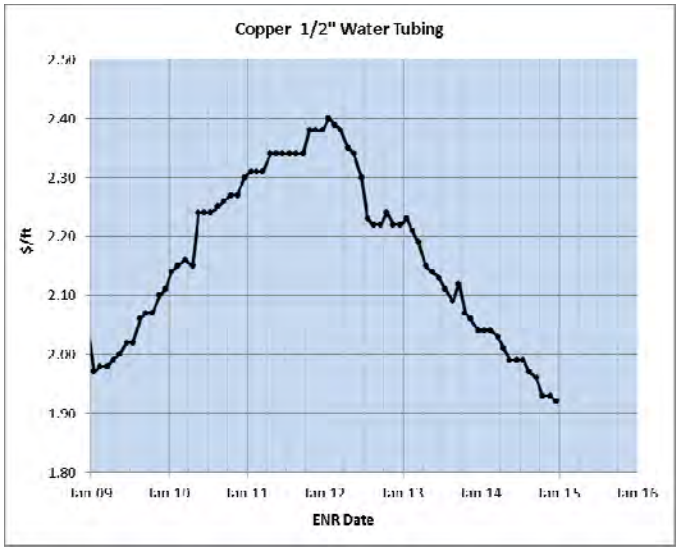
Appendix G. Project Organization Chart

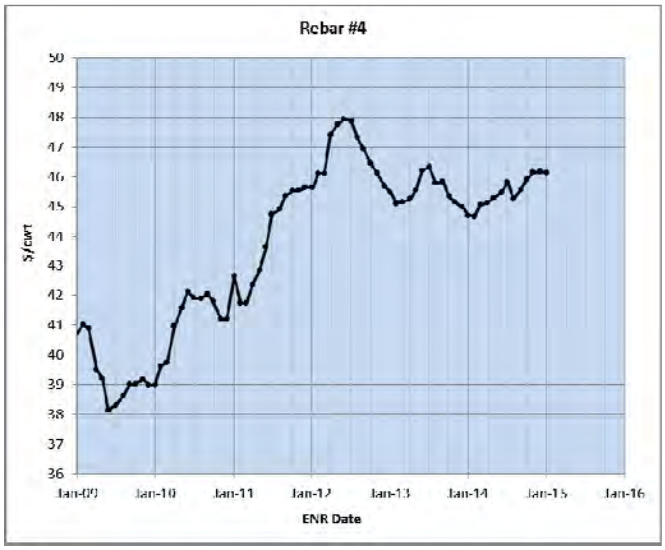


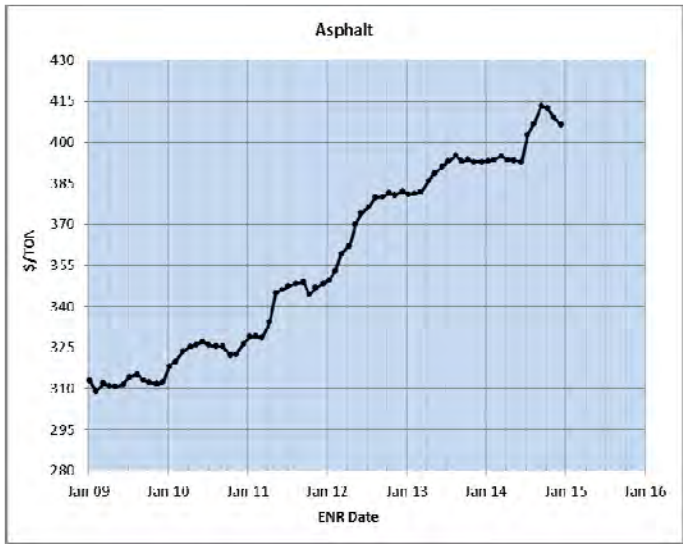
Appendix H. Indices on Key Commodities

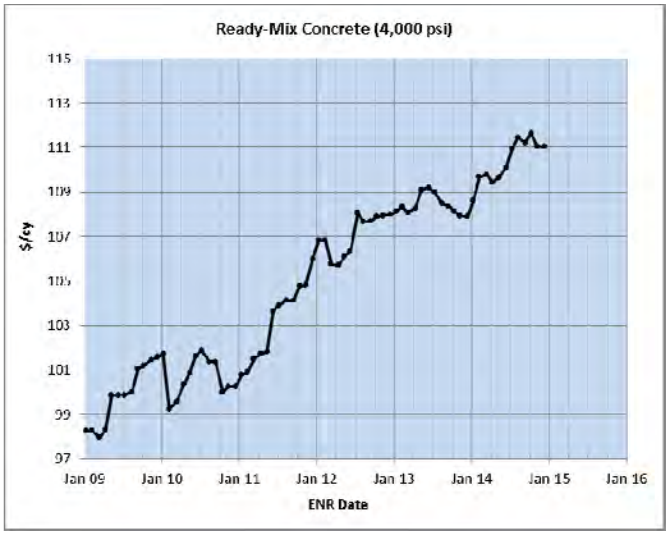
The following charts represent the cost trends on some of the key materials used in the program.

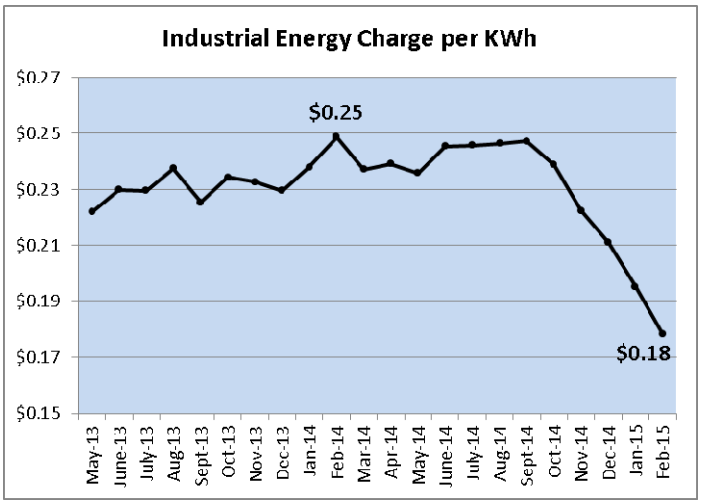










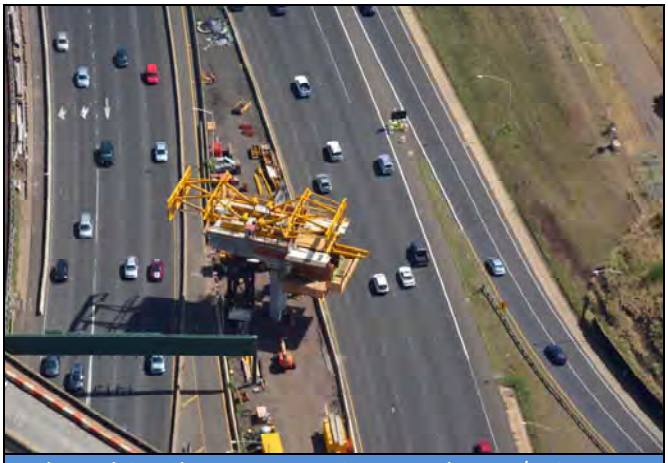


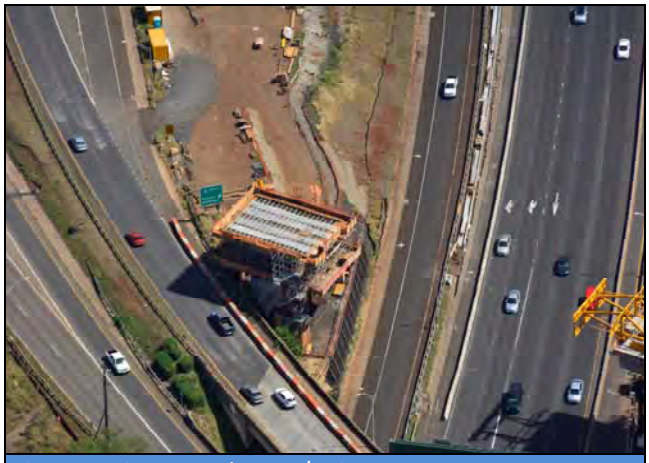
Source: HECO: Effective Rate Summary for DS Rate

Appendix I. 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.