HONOLULU RAIL TRANSIT PROJECT

September 2012

Cost and Schedule data date 8/31
All other activities 9/30

MONTHLY PROGRESS REPORT

HART

HONOLULU AUTHORITY for RAPID TRANSPORTATION

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1 EXECUTIVE SUMMARY

1.1 Key Activities This Month

The Federal Transit Administration (FTA) continues to review the City and County of Honolulu (City) request for a Full Funding Grant Agreement (FFGA) and is expected to commit $1.55 B in federal funds by the end of the year.

On September 20, a delegation of Honolulu officials met with FTA Administrator Peter Rogoff and members of Congress to reiterate local support for and answer questions on the status of the Honolulu Rail Transit Project (HRTP). The delegation included HART Executive Director and CEO Dan Grabauskas, Mayor Peter Carlisle, Honolulu City Council Chair Ernie Martin and HART Board Chair Carrie Okinaga.

Core Systems Contractor Ansaldo Honolulu Joint Venture (AHJV) has placed a multi-million dollar order with Siemens to electrify the track. Siemens will supply 14 traction power substations and 2 tie-breaker gap substations along with emergency stop equipment at the Maintenance and Storage Facility (MSF) and all line stops.

Transit-oriented development (TOD) draft plans were presented by the City Department of Planning and Permitting (DPP) at 2 community workshops held in the Downtown and Kalihi neighborhoods on September 25 and 26. The workshops shared preferred development scenarios around 6 transit stations and opportunities for residential, commercial, industrial, waterfront and park uses and transportation. The public is encouraged to review and comment on the draft plans.

1.2 Key Current Issues

Archaeological Inventory Survey (AIS) Completion

AIS completion could delay construction until April or May 2013. By excavating 15 to 17 trenches per week, AIS work could be completed by January or February, plus 30 days for the City to prepare and submit the AIS report to the State Historic Preservation Division (SHPD) for its 30-day review. HART has implemented an expedited AIS schedule, completing 20 trenches in the last week of September.

Right of Entry for AIS Work

Right of entry will need to be granted by 10 property owners for 60 of the additional AIS trenches. As of September 13, one owner had agreed to provide access, while others had stated reluctance. If a property owner should refuse access, it is estimated that City legal measures to gain right of entry would take 5 to 11 months.

Partial Temporary Suspension of Work

The Hawaii Supreme Court on September 27 denied the City's motion to reconsider its August 24 decision in the *Kaleikini vs. The City and County of Honolulu* case that resulted in HART issuing a partial temporary suspension of work for all ground-disturbing activities. The City's September 4 motion had sustained that no statute or rule prohibits SHPD approval of a phased project.

HART is evaluating the cost (including equipment, overhead and personnel costs) and schedule impacts of the work suspension with guideway Design-Build Contractor Kiewit Infrastructure West Company (KIWC) in order to develop and implement mitigation strategies. Immediate actions taken by KIWC have included releasing field personnel and reassigning staff to other projects.

The HART Board has directed HART to proceed with final design and engineering activities on awarded contracts. This will position the project to continue construction procurement once the suspension of ground-disturbing activities is lifted following AIS completion. To date, overall design progress is 27.4%, as shown in Figure 3 on page 6. Securing of right-of-way and all required permits continues.

Potential Burial Site Discovery

On September 12, a single human bone fragment was found during AIS excavation in the Section IV City Center guideway area of Kaka'ako. HART, SHPD and Oahu Island Burial Council (OIBC) officials examined the find on-site on September 13. The Department of Land and Natural Resources (DLNR) stated that the bone fragment was in a non-burial context. SHPD and OIBC agreed to leave it in place and workers covered the trench with a steel plate while excavation work continues in the surrounding area. Further excavation of the site uncovered no other archaeological finds.

1.3 Project Scope Status Overview

There have been no project scope changes; the Project Scope continues to reflect the Final Environmental Impact Statement (FEIS) and facilities are being designed and constructed in accordance with the approved Contract Packaging Plan (CPP). *This includes any change executed to date due to policy, design, third-party agreement, environmental, site or material factors.*

1.4 Project Schedule Status Overview

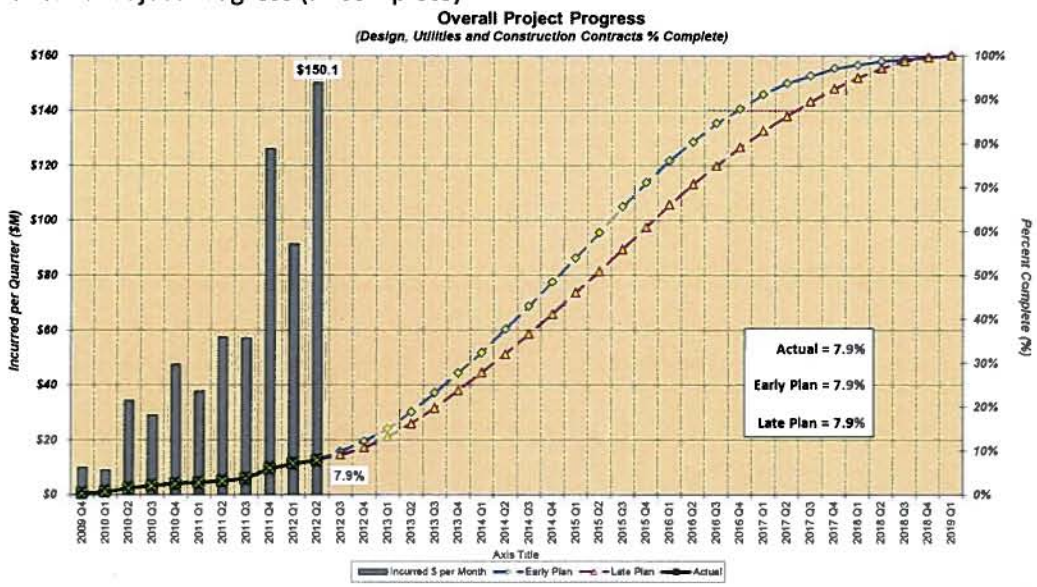
The Project remains on schedule to meet the March 30, 2019 full revenue service date (RSD) 10 months ahead of the January 31, 2020 FFGA target. This RSD is the milestone date reflected in the FFGA Master Project Schedule (MPS) and is consistent with all revised FFGA submittals. The latest Summary MPS is presented in Figure 11 on page 19.

1.5 Project Progress Overview

Overall project, design, construction and utilities progress is presented below and on the following pages in terms of actual and planned percent complete by quarter, in accordance with the FFGA MPS and Project Budget. Individual construction, design and utilities contracts statuses are presented in Sections 3.2 through 3.7 of this report.

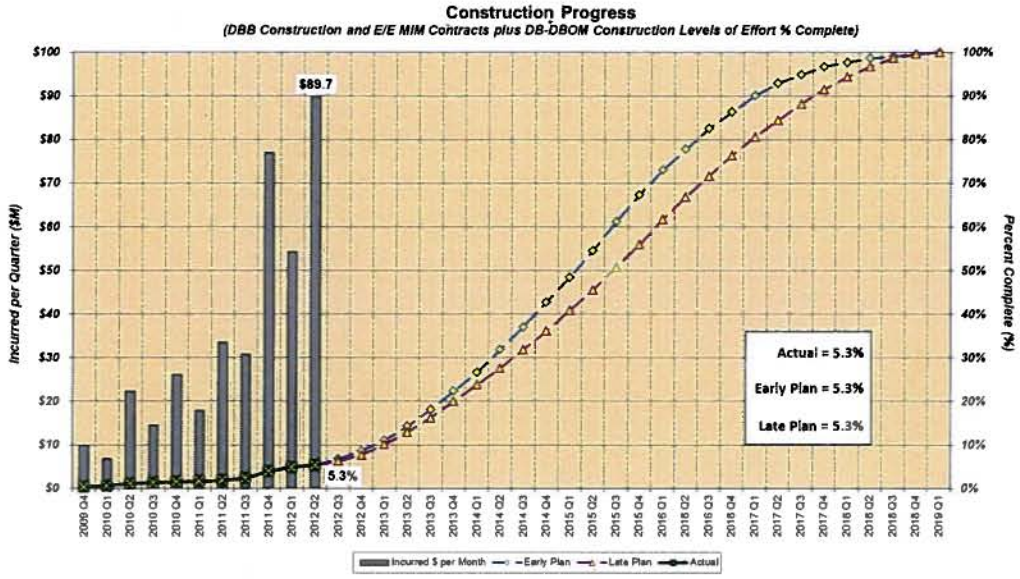
Overall project progress through the end of calendar-year Q2 2012 is 7.9%, equal to the early and late plans, as shown in Figure 1 below. Overall project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM] and Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DBB-DBOM design levels of effort), not including City or non-design consultant labor.

Figure 1. Overall Project Progress (% Complete)



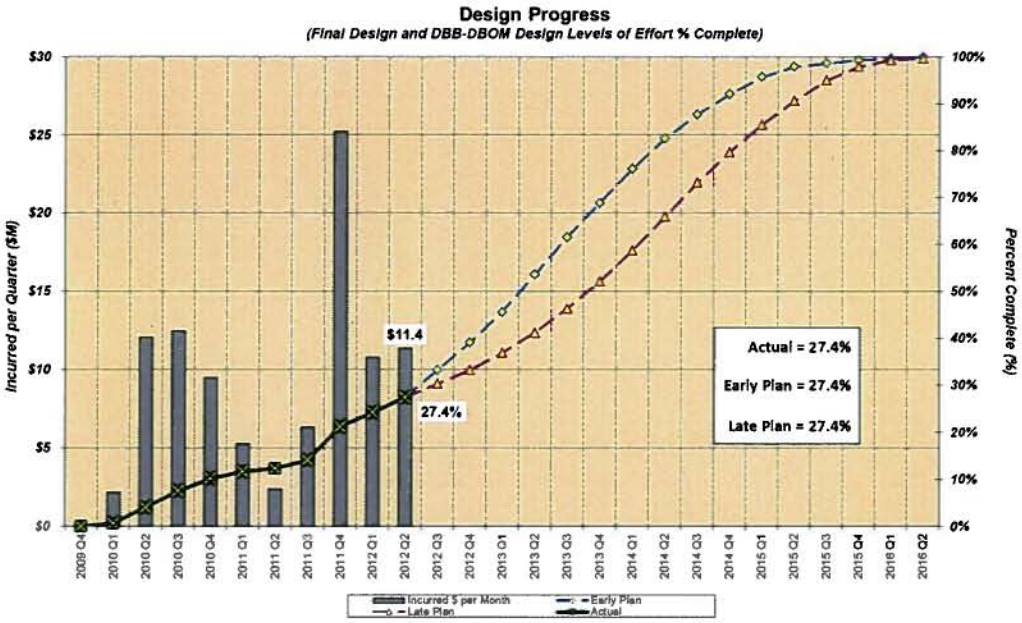
Overall construction progress through the end of calendar-year Q2 2012 is 5.3%, equal to the early and late plans, as shown in Figure 2 below. Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort, not including consultant construction engineering and inspection (CE&I) services.

Figure 2. Construction Progress (% Complete)



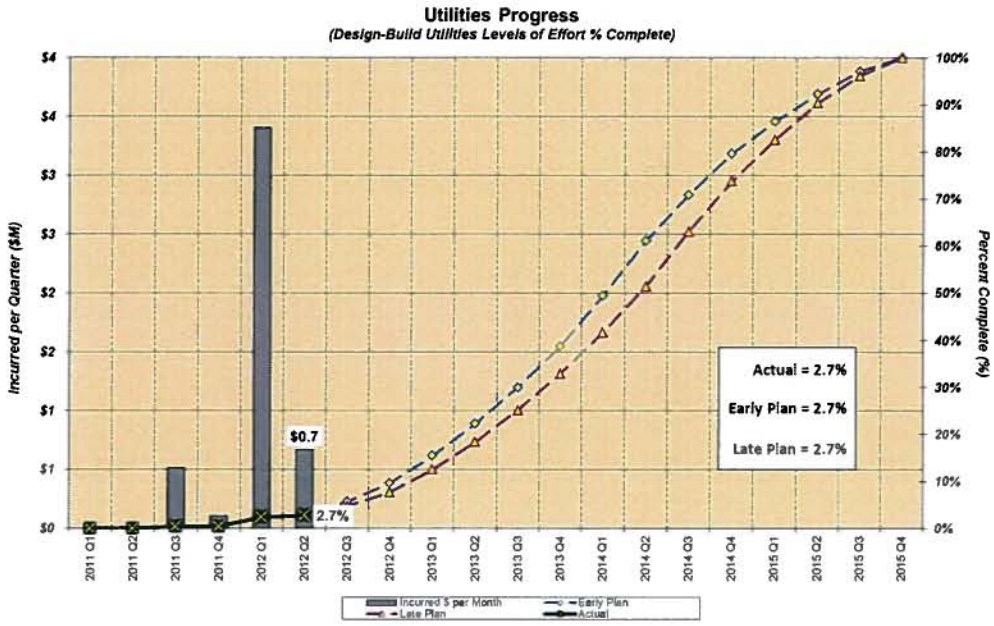
Overall design progress through the end of calendar-year Q2 2012 is 27.4%, equal to the early and late plans, as shown in Figure 3 below. Overall design progress is based on the weighted average progress of the individual FD contracts and the design levels of effort of the DB and DBOM construction contracts, not including City or non-design consultant labor.

Figure 3. Design Progress (% Complete)



Overall utilities progress through the end of calendar-year Q2 2012 is 2.7%, equal to the early and late plans, as shown in Figure 4 below. Overall utilities progress is based on the weighted average progress of the DB utilities levels of effort.

Figure 4. Utilities Progress (% Complete)



1.6 Financial Status Overview

1.6.1 Project Budget

The total incurred cost (actual expenditures plus approved requests for payment) as of August 31 was $492.7 M, or 11.6% of the FFGA Project Budget (excluding contingencies and finance charges).

The total committed amount as of August 31 was $2.172 B, or 51.3% of the FFGA Project Budget (including awarded design contract allowances of $5.0 M, but excluding uncommitted contingencies and finance charges).

The total amount Authorized for Expenditure (AFE) via Notices to Proceed (NTPs) was $0.978 B, or 23.1% of the FFGA Project Budget (excluding uncommitted contingencies and finance charges). To date, 22 of the 49 planned design, construction and specialty consultant contracts have been awarded.

The current Baseline Total Project Contingency is $644 M. The current Total Available Contingency is $717.5 M. Cost contingency details are presented in Section 2.1 of this report, along with a discussion of contingency management and the proposed Cost Contingency Drawdown Chart in Section 2.4.

1.6.2 Project Funding

No additional GET surcharge revenue was received in August. See Section 2.2 for project funding details.

1.6.3 FFGA Status

The FFGA request was submitted to the FTA on June 29. HART has completed submission of FFGA readiness documents and continues to work with FTA staff to finalize the FFGA review and processing.

1.7 HART Board of Directors Meetings and Events in September-October

HART Board of Directors Meeting
Thursday, September 13, 9:00 a.m., Old Archives Building, 365 S. King St.
Open to the Public.

HART Finance Committee Meeting
Thursday, September 13, 10:00 a.m., Old Archives Building, 365 S. King St.
Open to the Public.

HART Transit-Oriented Development (TOD) Committee Meeting
Thursday, September 27, 8:00 a.m., Mission Memorial Annex Conference Room, 550 S. King St.
Open to the Public.

HART Board of Directors Meeting
Thursday, September 27, 9:00 a.m., Mission Memorial Annex Conference Room, 550 S. King St.
Open to the Public.

HART Finance Committee Meeting
Thursday, October 4, 8:30 a.m., Mission Memorial Annex Conference Room, 550 S. King St.
Open to the Public.

HART Project Oversight Committee (POC) Meeting
Thursday, October 4, 10:00 a.m., Mission Memorial Annex Conference Room, 550 S. King St.
Open to the Public.

HART Transit-Oriented Development (TOD) Committee Meeting
Thursday, October 18, 8:30 a.m., Mission Memorial Annex Conference Room, 550 S. King St.
Open to the Public.

HART Board of Directors Meeting
Thursday, October 18, 10:00 a.m., Mission Memorial Annex Conference Room, 550 S. King St.
Open to the Public.

2 PROJECT BUDGET AND SCHEDULE

2.1 Project Budget

The FFGA Baseline Project Budget is $5.122 B (including contingencies and finance charges). Reported budget amounts relate to the FTA New Starts project and exclude financing costs that will be incurred beyond FFGA completion.

In August, the project incurred $32.8 M in costs (actual expenditures plus approved requests for payment as of the cost data date of August 31). This brought the total incurred cost to date to $492.7 M, or 11.6% of the Project Budget amount of $4.231 B, which excludes contingencies and finance charges. The FFGA Financial Plan (*Honolulu Rail Transit Project Final Financial Plan for Full Funding Grant Agreement*, June 2012, Tables 2-4 and A-1) estimated cumulative capital expenditures of $569 M in FY2010-2012 and $1.3 B through FY2013.

The Baseline Project Budget Contingency is $644 M. The project's current Total Available Budget Contingency is $717.5 M, as shown in the detailed project cost report in Figure 10 starting on page 16. This is comprised of the following elements:

1) Allocated contract contingency of $547.6 M. This is contingency allocated to FTA Standard Cost Categories (SCC) for various pieces of work.
2) Allowances for design contracts. Allowances are committed contingency amounts.
3) Known Changes.
4) Unallocated Contingency. This is a general contingency fund not allocated to specific work.

The FFGA Baseline Project Contingency Budget does not include "Known Changes," which were not yet negotiated or finalized at the time of the Bottom-Up Estimate (BUE). These "Known Change" amounts were budgeted in the BUE base contract values, but are classified as contingency for the purposes of contingency tracking and management in order to process all changes with consistent methodology. Budget is transferred from contingency to the correct cost code when a Change Order is executed. The detailed project cost report by SCC Level 2 presented in Figure 10 on page 17 includes this amount, which brings the Total Available Budgeted Contingency for all 4 contingency categories to $717.5 M.

HART's proposed cost contingency drawdown is under FTA review, as discussed in Section 2.4 and presented Figure 12 on page 22.

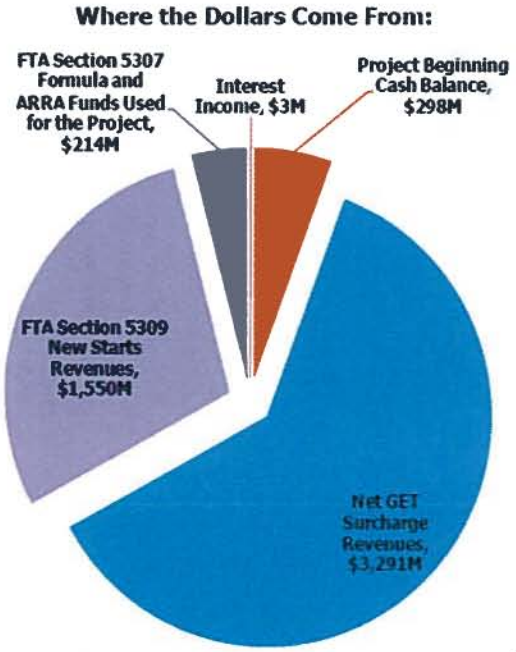
2.2 Project Revenue and Costs

Total cash received to date is $892.1 M. The FFGA Financial Plan (Table A-1. *Capital Plan Cash Flows*) projects GET Surcharge Revenues of $684 M during the period of FY2010-2013. To date, $527 M, or 77% of the projected $684 M, has been received, with 3 quarters remaining in FY2013. On the next page, see Figure 5 for project funding by source and Figure 6 for planned funding details.

Project revenue is presented against costs incurred as of the August 31 cost data date in Figure 7 on page 11.

Project costs are detailed in Figure 8, Figure 9 and Figure 10 on pages 12 through 16. Cost reports are run from the HART Contract Management System (CMS). Figure 8 presents costs for each contract by HART CPP contract number. Figure 9 and Figure 10 on pages 15 and 16 present summarized and detailed project costs by FTA SCC.

Figure 5. Project Funding Sources (YOE $M)



Source: FFGA Financial Plan, p. 2-1

Figure 6. Planned Project Funding

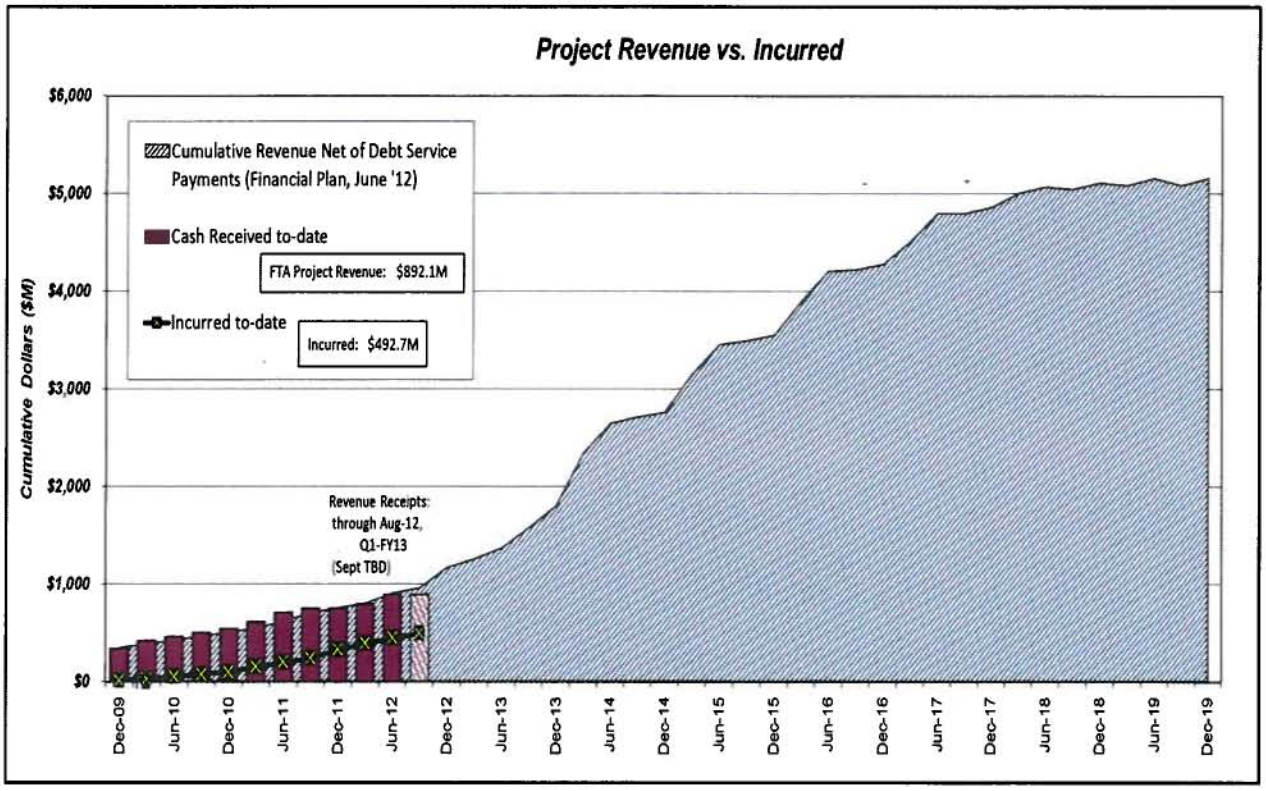
Funding Source	Planned[1] ($YOE M)	Received to Date ($M)
FTA Section 5307 Formula Funds, including ARRA	214	4
Investment Interest Income on Cash Balance	2	1
Beginning Project Cash Balance[2]	298	298
FTA Section 5309 New Starts Revenue	1,550	62
Net General Excise Tax (GET) Surcharge revenues FY2010-FY2023	3,291	527
Sub-Total	5,356	*892*
Transfer of Excess Cash and Reserve to Rail Capital and O&M Cost (FY21-FY24)	(193)	
Total[3]	**5,163**	**892**

[1] FFGA Financial Plan, Table 1-B. *Sensitivity Analysis – Scenario 1: Percent Increase in Project Capital Cost Starting in FY2014, Project Capital Plan Cash Flow.*

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

[3] Total Planned Funding of $5,163 M= Total Project Budget of $5,122 M (YOE) minus Ineligible Finance Charges of $42 M (YOE).

Figure 7. Project Revenue versus Incurred Costs



2.3 Project Schedule

The HRTP Master Project Schedule (MPS) has been updated as of August 31, as shown in the Master Project Schedule Summary (MPSS) in Figure 11 starting on page 19. This was statused against the FFGA Baseline MPS. The baseline and actual/planned durations of each contract are displayed for comparison.

Figure 8. Project Costs by Contract

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Costs Reported as of Month Ending: August 2012

Project Monthly Cost Report by Contract - One Line Summary

		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
CPP No	Title	Baseline	Transfers	Current	Current *	AFE**	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
10-80 SCC COSTS										
ART	Project Wide ART	5,000,000	0	5,000,000	0	0	0	5,000,000	0	0
CCH-100	HART/City and County of Honolulu	15,348,444	0	15,348,444	15,348,443	0	0	15,348,444	0	15,348,443
CCH-101	HART/City Dept of BFS	1,107,273	0	1,107,273	105,092	0	0	1,107,273	0	0
CCH-102	HART/City DDC Land Division	1,463,636	0	1,463,636	256,201	0	0	1,463,636	0	0
CCH-107	HART/City Corporation Counsel (CDR)	8,009,092	0	8,009,092	816,253	(700,000)	700,000	8,009,092	0	0
CCH-108	Board of Water Supply (BWS)	928,182	0	928,182	0	0	0	928,182	0	0
DB-120	West Oahu/Farrington Hwy Guideway	542,135,145	2,670,000	544,805,145	515,451,270	271,885,336	59,137,953	544,805,145	0	153,726,742
DB-200	Maintenance & Storage Facility DB	222,954,906	0	222,954,906	195,258,000	128,288,734	32,169,923	222,954,906	0	22,749,156
DB-320	Kamehameha Hwy Guideway DB	371,929,117	220,883	372,150,000	372,150,000	162,166,081	0	372,150,000	0	70,598,190
DBB-170	West Oahu Stations Group Contr.	48,745,033	0	48,745,033	0	0	0	48,745,033	0	0
DBB-270	Farrington Hwy Stations Group Contr.	45,003,952	0	45,003,952	0	0	0	45,003,952	0	0
DBB-275	Pearl Highlands Pkg. Str./BTC Contr.	155,591,280	0	155,591,280	0	0	0	155,591,280	0	0
DBB-370	Kamehameha Hwy Stations Grp. Contr.	68,615,238	0	68,615,238	0	0	0	68,615,238	0	0
DBB-470	Airport Station Group Contr.	63,346,867	0	63,346,867	0	0	0	63,346,867	0	0
DBB-505	Airport Section Utilities Contr.	24,627,701	0	24,627,701	0	0	0	24,627,701	0	0
DBB-510	City Center Section Utilities Contr.	63,025,091	0	63,025,091	0	0	0	63,025,091	0	0
DBB-520	Airport-City Center Guideway Contr.	682,463,152	0	682,463,152	0	0	0	682,463,152	0	0
DBB-570	Dillingham Stations Group Contr.	59,400,065	0	59,400,065	0	0	0	59,400,065	0	0
DBB-575	Kalaeloa Stations Group Contr.	73,702,023	0	73,702,023	0	0	0	73,702,023	0	0
DBB-600	UH/AO Fill/Hoopili Stn Finishes Contr.	13,059,190	0	13,059,190	0	0	0	13,059,190	0	0
DBOM-920	Core Systems Design Build O/M	579,648,486	0	579,648,486	573,782,793	97,918,391	9,993,500	579,648,486	0	17,931,612
FD-140	West Oahu Station Group Final Design	7,882,312	(1,808,200)	6,074,112	6,074,112	2,391,177	0	6,074,112	0	0
FD-240	Farrington Highway Stations Group FD	8,137,060	(58,443)	8,078,617	7,949,602	7,610,011	53,011	8,078,617	0	4,904,125
FD-245	Pearl Highlands Pkg. Str./BTC FD	17,916,058	0	17,916,058	0	0	0	17,916,058	0	0
FD-340	Kamehameha Hwy Station Group-R2 FD	8,702,592	0	8,702,592	0	0	0	8,702,592	0	0
FD-430	Airport Sect Guideway/Utilities FD	39,307,052	(2,054,106)	37,252,946	37,252,946	31,066,791	0	37,252,946	0	10,306,397
FD-440	Airport Station Group FD	10,177,365	0	10,177,365	0	0	0	10,177,365	0	0

m_cu_pmoc_monthly_contract_one_line

* Current Committed = Original Contract + CCO/Amendment

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

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

**** Est. At Completion = Original Contract + CCO/Amendments + Pending Changes + Potential Changes (Adjustments)+Uncommitted

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Costs Reported as of Month Ending: August 2012

Project Monthly Cost Report by Contract - One Line Summary

CPP No	Title	A BUDGET Baseline	B BUDGET Transfers	C=A+B BUDGET Current	D COMMITTED Current *	E AFE AFE**	F ESTIMATE AT COMPLETION Changes ID'd***	G ESTIMATE AT COMPLETION Est. At Completion****	H=C-G Variance	I INCURRED Incurred To Date
10-80 SCC COSTS										
FD-530	Ck; Center Guideway; Utilities FD	48,266,165	(5,917,945)	42,348,220	42,348,220	537,870	0	42,348,220	0	0
FD-540	Dillingham Stations (3) FD	10,615,487	0	10,615,487	0	0	0	10,615,487	0	0
FD-545	Kamehameha Stations (3) Final Design	10,864,191	0	10,864,191	0	0	0	10,864,191	0	0
FD-600	UH/AO Pkg-Hoopili Station Finishes FD	2,465,890	0	2,465,890	0	0	0	2,465,890	0	0
HRT-200	HART Labor	74,522,726	0	74,522,726	4,265,543	0	-10,400,000	74,522,726	0	4,265,543
HRT-201	HART OCC	48,473,636	(3,995,230)	44,478,406	56,370	0	0	44,478,406	0	56,370
MI-930	Elevators & Escalators Install/Maint	54,721,186	0	54,721,186	0	0	0	54,721,186	0	0
MM-180	West Oahu/Farrington Stations CEI	14,276,861	0	14,276,861	0	0	0	14,276,861	0	0
MM-380	Kamehameha Hwy Station Grp #2 CEI	7,178,933	0	7,178,933	0	0	0	7,178,933	0	0
MM-385	Pearl Highlands Garage and Ramps CEI	9,568,589	0	9,568,589	0	0	0	9,568,589	0	0
MM-485	Airport Station Group CEI	7,120,954	0	7,120,954	0	0	0	7,120,954	0	0
MM-500	Airport-Ck; Center Utilities CEI	10,097,731	0	10,097,731	0	0	0	10,097,731	0	0
MM-525	Airport-Ck; Center Guideway; CEI	36,591,026	0	36,591,026	0	0	0	36,591,026	0	0
MM-585	Dillingham/Kalihi Station Grp CEI	10,254,773	0	10,254,773	0	0	0	10,254,773	0	0
MM-600	UH/AO Pkg-Hoopili Sta Finishes CEI	1,099,449	0	1,099,449	0	0	0	1,099,449	0	0
MM-900	Program Mgt Support Consit (PMSC-1)	20,000,000	0	20,000,000	36,727,162	20,700,000	0	20,000,000	0	20,434,093
MM-901	Program Mgt Support Consit (PMSC-2)	31,304,349	0	31,304,349	33,376,897	11,240,790	0	31,304,349	0	4,764,385
MM-905	MM-905 Gen Engrg Consit EIS/PE	76,910,382	0	76,910,382	80,171,852	80,171,852	0	76,910,382	0	75,704,084
MM-910	MM-910 Gen Engrg Consit FD-Construct	310,828,630	0	310,828,630	150,000,000	150,000,000	0	310,828,630	0	58,479,450
MM-915	HDOT Traffic Mgmt Consult.	1,057,391	0	1,057,391	1,600,000	300,000	0	1,057,391	0	57,640
MM-920	HDOT Coordination Consit AOFH	10,521,165	0	10,521,165	12,000,000	6,000,000	0	10,521,165	0	3,649,424
MM-921	HDOT Coordination Consit KHG	8,695,652	0	8,695,652	10,000,000	1,000,000	0	8,695,652	0	0
MM-922	HDOT Coord. Consit Airport	6,471,305	0	6,471,305	12,000,000	1,000,000	0	6,471,305	0	118,174
MM-923	HDOT Coordination Consit Ck; Center	4,314,782	0	4,314,782	0	0	0	4,314,782	0	0
MM-925	Hawaii Dept of Transportation (HDOT)	1,352,915	0	1,352,915	100,000	100,000	0	1,352,915	0	94,045
MM-930	HDOT State SOA Manager & Consultant	1,272,174	0	1,272,174	0	0	0	1,272,174	0	0
MM-935	Real Estate Consultant	3,200,000	0	3,200,000	3,000,000	685,000	0	3,200,000	0	135,020

* Current Committed = Original Contract + CCO/Amendment

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

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

**** Est. At Completion = Original Contract + CCO/Amendments + Pending Changes + Potential Changes (Adjustments)+Uncommitted

m_cw_pmoc_monthly_contract_one_line

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: August 2012

Project Monthly Cost Report by Contract - One Line Summary

CPP No	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
10-80 SCC COSTS										
MM-940	Kiewit Consultant	500,000	500,000	1,000,000	1,000,000	100,000	0	1,000,000	0	28,988
MM-945	On-Call Contractor	869,565	0	869,565	0	0	0	869,565	0	0
MM-946	On-Call Hazmat Removal Contractor	2,608,695	0	2,608,695	3,000,000	1,000,000	0	2,608,695	0	0
MM-950	OCIP Consultant	2,000,000	0	2,000,000	1,250,000	437,500	0	2,000,000	0	92,500
MM-951	Owner-Controlled Insurance Program	8,333,334	0	8,333,334	0	0	0	8,333,334	0	0
MM-952	Insurance Carried by HART	0	0	0	0	0	0	0	0	0
MM-975	LEED Commissioning Services for MSF	243,007	35,623	278,630	278,630	278,630	0	278,630	0	51,360
PA-101	Programmatic Agreement Humanities	610,000	(500,000)	110,000	0	0	0	110,000	0	0
PA-102	Programmatic Agreement HPC	2,000,000	0	2,000,000	0	0	0	2,000,000	0	0
PA-103	Programmatic Agreement HPC Park Impr	750,000	0	750,000	0	0	0	750,000	0	0
ROW	Real Estate / Right-of-Way	194,197,947	0	194,197,947	26,964,512	26,964,512	0	194,197,947	0	26,964,512
UTIL	Utilities by Utility Companies	132,689,208	0	132,689,208	24,726,313	2,889,000	-27,701,942	132,689,208	0	1,647,870
10-80 SCC COSTS		**4,305,074,410**	**(10,907,418)**	**4,294,166,992**	**2,167,310,209**	**979,317,162**	**63,951,445**	**4,294,166,992**	**0**	**492,708,121**
Contract	Contingency	541,689,343	10,907,418	552,596,761	4,961,345	(614,249)	25,804,136	552,596,761	0	0
Unalloc.	Project Contingency	101,871,170	0	101,871,170	0	0	0	101,871,170	0	0
Contingency		**643,560,513**	**10,907,418**	**654,467,931**	**4,961,345**	**(614,249)**	**25,804,136**	**654,467,931**	**0**	**0**
Other FTA Costs		173,058,243	0	173,058,243	0	0	0	173,058,243	0	0
FTA PROJECT COSTS		**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	2,172,271,554	978,702,913	89,755,581	5,121,693,166	0	492,708,121
Finance Charges - Ineligible		42,000,000	0	42,000,000	0	0	0	42,000,000	0	0
		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**	**2,172,271,554**	**978,702,913**	**89,755,581**	**5,163,693,166**		**492,708,121**

* Current Committed = Original Contract + CCO/Amendment

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

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

**** Est. At Completion = Original Contract + CCO/Amendments + Pending Changes + Potential Changes (Adjustments)+Uncommitted

m_ov_pmoc_monthly_contract_one_line

Figure 9. Project Costs by SCC – Summary

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: August 2012

Project Monthly Cost Report by SCC Summary

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	879,001	1,115,094,148	510,619,562		9,875,925	1,115,094,148	0	5,252,897
20	Stations,Stops,Terminals,Intermod	421,804,740	0	421,804,740	0		0	421,804,740	0	0
30	Support Facilities:Yards,Shops,A	92,535,015	0	92,535,015	86,343,864		6,035,034	92,535,015	0	2,781,480
40	Sitework & Special Conditions	983,178,121	(62,560,826)	920,617,295	502,099,005		(26,698,857)	920,617,295	0	178,346,460
50	Systems	221,284,301	59,020	221,343,321	205,717,371		0	221,343,321	0	0
60	ROW, Land, Existing Improvement	197,397,947	277,800	197,675,747	30,242,312		0	197,675,747	0	27,099,532
70	Vehicles	186,829,020	0	186,829,020	189,697,901		0	186,829,020	0	0
80	Professional Services	1,087,830,119	(12,607,902)	1,075,222,217	632,590,393		(9,700,000)	1,075,222,217	0	279,227,242
Subtotal:		4,305,074,410	(73,952,907)	4,231,121,503	2,167,310,209		(20,487,898)	4,231,121,503	0	492,707,612
2. AFE										
AFE	Authorized For Expenditure	0	0	0	0		0	0	0	509
Subtotal:		0	0	0	0		0	0	0	509
3. Contingency										
CNTR	Contingency	541,689,343	73,952,907	615,642,250	4,961,345		110,243,479	615,642,250	0	0
PRJ	Contingency	101,871,170	0	101,871,170	0		0	101,871,170	0	0
Subtotal:		643,560,513	73,952,907	717,513,420	4,961,345		110,243,479	717,513,420	0	0
4. Finance Charges - Eligible										
OTH	Finance Charges	173,058,243	0	173,058,243	0		0	173,058,243	0	0
Subtotal:		173,058,243	0	173,058,243	0		0	173,058,243	0	0
FTA TOTAL PROJECT COSTS		5,121,693,166	0	5,121,693,166	2,172,271,554	977,702,913	89,755,581	5,121,693,166	0	492,708,121
4. Finance Charges -Ineligible Costs										
FINC	Finance Charges	42,000,000	0	42,000,000	0		0	42,000,000	0	0
Subtotal:		42,000,000	0	42,000,000	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	2,172,271,554	977,702,913	89,755,581	5,163,693,166	0	492,708,121

* Current Committed = Original Contract + CCO/Amendment

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

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

**** Est. At Completion = Original Contract + CCO/Amendments + Pending Changes + Potential Changes (Adjustments)+Uncommitted

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Figure 10. Project Costs by SCC – Level 2

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: August 2012

August Project Monthly Cost Report SCC Level 2

Page: 1 of 3

		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	879,001	1,115,094,148	510,919,562		9,875,925	1,115,094,148	0	5,252,897
10.04	Guideway: Aerial Structure	1,022,380,671	741,273	1,023,121,944	434,840,724	741,273	0	1,023,121,944	0	5,252,897
10.08	Guideway: Retained Cut or Fill	7,492,944	0	7,492,944	6,436,256	0	0	7,492,944	0	0
10.09	Track: Direct Fixation	79,347,205	137,728	79,484,933	65,144,708	137,728	9,875,925	79,484,933	0	0
10.11	Track: Ballasted	3,293,724	0	3,293,724	2,697,875	0	0	3,293,724	0	0
10.12	Track:Special (Switches, turnouts)	1,700,603	0	1,700,603	1,500,000	0	0	1,700,603	0	0
20	Stations,Stops,Terminals,Intermod	421,804,740	0	421,804,740	0		0	421,804,740	0	0
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	0	294,563,457	0	0	0	294,563,457	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	0	54,721,186	0	0	0	54,721,186	0	0
30	Support Facilities:Yards,Shops, A	92,535,015	0	92,535,015	86,348,864		6,035,034	92,535,015	0	2,781,480
30.02	Light Maintenance Facility	7,591,888	0	7,591,888	7,586,793	0	0	7,591,888	0	0
30.03	Heavy Maintenance Facility	38,099,138	0	38,099,138	37,857,030	0	0	38,099,138	0	2,657,874
30.04	Storage or Maintenance of Way Buil	7,797,460	0	7,797,460	7,735,910	0	0	7,797,460	0	73,606
30.05	Yard and Yard Track	39,046,529	0	39,046,529	43,163,931	0	6,035,034	39,046,529	0	50,000
40	Sitework & Special Conditions	983,178,121	(62,560,826)	920,617,295	502,089,005		(26,698,857)	920,617,295	0	178,346,460
40.01	Demolition, Clearing, Earthwork	29,980,158	125,214	30,105,372	8,022,358	175,214	0	30,105,372	0	6,614
40.02	Site Utilities, Utility Relocation	299,449,756	1,847,791	301,297,547	94,431,027	1,897,791	(26,714,942)	301,297,547	0	4,888,250
40.03	Haz. mat'l, contam'd soil removal	9,199,237	0	9,199,237	3,000,000	50,000	16,085	9,199,237	0	0
40.04	Environmental Mitigation	26,979,122	0	26,979,122	16,540,808	50,000	0	26,979,122	0	3,427,944
40.05	Site structures, retaining walls,	7,998,960	0	7,998,960	8,902,848	50,000	0	7,998,960	0	0
40.06	Pedestrian/bike access/landscaping	41,073,897	53,400	41,127,297	5,049,834	103,400	0	41,127,297	0	0
40.07	Auto, bus, van accessways	181,979,367	790,400	182,769,767	35,558,916	840,400	0	182,769,767	0	507,888
40.08	Temporary Facilities/Indirect Cost	386,517,624	(65,377,631)	321,139,993	330,593,216	27,175,230	0	321,139,993	0	169,515,765
50	Systems	221,284,301	59,020	221,343,321	205,717,871		0	221,343,321	0	0
50.01	Train control and signals	81,982,556	0	81,982,556	92,679,000	0	0	81,982,556	0	0
50.02	Traffic signals and crossing prot.	10,458,226	0	10,458,226	0	0	0	10,458,226	0	0
50.03	Traction power supply: substation	29,500,926	59,020	29,559,946	31,034,688	59,020	0	29,559,946	0	0
50.04	Traction power distribution: cate	32,878,150	0	32,878,150	25,080,619	0	0	32,878,150	0	0
50.05	Communications	53,691,339	0	53,691,339	54,251,174	0	0	53,691,339	0	0

* Current Committed = Original Contract + CCO/Amendment

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

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HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: August 2012

August Project Monthly Cost Report SCC Level 2

		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	59,020	221,343,321	205,717,371		0	221,343,321	0	0
50.06	Fare collection system and equipme	9,159,277	0	9,159,277	9,218,099	0	0	9,159,277	0	0
50.07	Central Control	3,613,827	0	3,613,827	3,453,791	0	0	3,613,827	0	0
60	ROW, Land, Existing Improvement	197,397,947	277,800	197,675,747	30,242,312		0	197,675,747	0	27,099,582
60.01	Purchase or lease of real estate	179,360,664	0	179,360,664	25,576,526	25,576,526	0	179,360,664	0	25,672,366
60.02	Relocation of existing households	18,037,283	277,800	18,315,083	4,665,786	806,556	0	18,315,083	0	1,427,166
70	Vehicles	166,829,020	0	166,829,020	189,697,901		0	166,829,020	0	0
70.01	Light Rail	166,721,386	0	166,721,386	171,122,353	0	0	166,721,386	0	0
70.06	Non-revenue vehicles	14,346,923	0	14,346,923	13,026,548	0	0	14,346,923	0	0
70.07	Spare parts	5,760,711	0	5,760,711	5,549,000	0	0	5,760,711	0	0
80	Professional Services	1,087,830,119	(12,607,902)	1,075,222,217	682,590,393		(9,700,000)	1,075,222,217	0	279,227,242
80.01	Preliminary Engineering	94,055,262	1,781,410	95,836,672	109,866,465	20,354,790	0	95,836,672	0	96,936,366
80.02	Final Design	228,321,632	(19,846,992)	208,474,640	99,856,356	798,274	0	208,474,640	0	8,326,674
80.03	Project Management Design & Cons	363,849,768	3,284,634	367,134,402	284,203,664	64,382,615	0	367,134,402	0	148,858,181
80.04	Constr. Admin. & Management	199,656,728	523,200	200,179,928	35,039,900	999,631	0	200,179,928	0	19,007,188
80.05	Professional Liability & other ins	46,549,724	(3,995,230)	42,554,494	1,306,370	476,431	(10,400,000)	42,554,494	0	148,870
80.06	Legal; Permits ,Review Fees ect.	67,641,005	145,019	67,786,024	37,015,508	45,348,786	700,000	67,786,024	0	4,397,116
80.07	Surveys, Testing, Investigation, I	21,759,336	5,500,057	27,259,393	17,332,721	476,431	0	27,259,393	0	1,313,435
80.08	Start up	65,996,664	0	65,996,664	47,968,909	476,431	0	65,996,664	0	239,412
NT	Authorized For Expenditure	0	0	0	0		0	0	0	509
NTP	Notice To Proceed	0	0		0	853,141,255	0	0	0	509
Subtotal:		4,305,074,410	(73,952,907)	4,231,121,503	2,167,310,209	978,317,162	(20,487,898)	4,231,121,503	0	492,708,121
2. Contingency										
CNTR	Contingency	541,689,843	73,952,907	615,642,250	4,961,345		110,243,479	615,642,250	0	0
90.02	Allocated Contract Contingency	540,101,329	7,534,087	547,635,416	0	0	24,733,115	547,635,416	0	0
90.03	Allowances	1,588,014	3,373,331	4,961,345	4,961,345	(614,249)	1,071,021	4,961,345	0	0
90.07	Known Change Contingency	0	63,045,489	63,045,489	0	0	84,439,343	63,045,489	0	0
PRJ	Contingency	101,871,170	0	101,871,170	0		0	101,871,170	0	0
90.01	Unallocated Project Contingency	101,871,170	0	101,871,170	0	0	0	101,871,170	0	0
Subtotal:		643,560,513	73,952,907	717,513,420	4,961,345	(614,249)	110,243,479	717,513,420	0	0

* Current Committed = Original Contract + CCO/Amendment

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HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Costs Reported as of Month Ending: August 2012

August Project Monthly Cost Report SCC Level 2

		A	B	C=A+B	D	E	F	G	H=C-G	I
		BUDGET			COMMITTED	AFE	ESTIMATE AT COMPLETION			INCURRED
SCC	Title	Baseline	Transfers	Current	Current *	AFE **	Changes ID'd***	Est. At Completion****	Variance	Incurred To Date
3. Finance Charges - Eligible										
OTH	Finance Charges	178,058,243	0	178,058,243	0		0	178,058,243	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	2,172,271,554	977,702,913	89,755,581	5,121,693,166	0	492,708,121
4. Finance Charges -Ineligible Costs										
FINC	Finance Charges	42,000,000	0	42,000,000	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	2,172,271,554	977,702,913	89,755,581	5,163,693,166	0	492,708,121

* Current Committed = Original Contract + CCO/Amendment

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

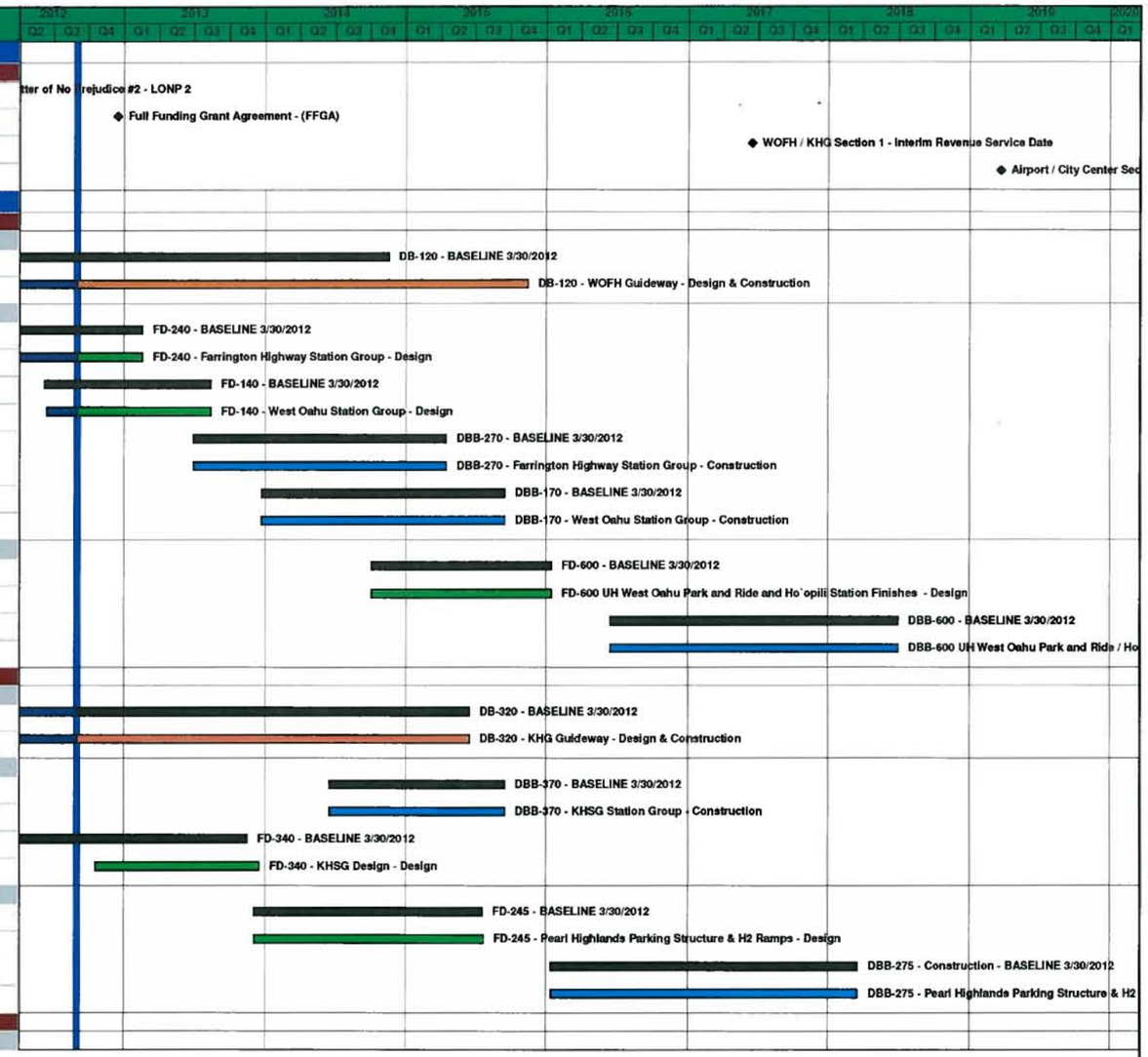
*** Changes Identified= Pending + Probable + Potential Changes

**** Est. At Completion = Original Contract + CCO/Amendments + Pending Changes + Potential Changes (Adjustments)+Uncommitted

Report M_CW_03_bySCC_scc_date_prompt_summary

Figure 11. HRTP Master Project Schedule Summary (MPSS)

Activity Name	Start	Finish
KEY DATA	02-06-12 A	03-25-19
MILESTONES	02-06-12 A	03-25-19
Letter of No Prejudice #2 - LONP 2	02-06-12 A	
Full Funding Grant Agreement - (FFGA)		12-14-12
WOFH / KHG Section 1 - Interim Revenue Service Date		06-16-17
Airport / City Center Section 2 - Full Revenue Service Date		03-25-19
CONTRACTS - DESIGN & CONSTRUCTION	12-01-09 A	07-01-18
WEST OAHU / FARRINGTON HIGHWAY (WOFH) - SECTION 1	12-01-09 A	07-01-18
WOFH Guideway	12-01-09 A	11-15-15
DB-120 - BASELINE 3/30/2012	12-01-09 A	11-15-14
DB-120 - WOFH Guideway - Design & Construction	12-01-09 A	11-15-15
WOFH Stations	01-14-11 A	09-15-15
FD-240 - BASELINE 3/30/2012	01-14-11 A	02-15-13
FD-240 - Farrington Highway Station Group - Design	01-14-11 A	02-15-13
FD-140 - BASELINE 3/30/2012	06-08-12 A	08-11-13
FD-140 - West Oahu Station Group - Design	06-15-12 A	08-11-13
DBB-270 - BASELINE 3/30/2012	06-29-13	04-15-15
DBB-270 - Farrington Highway Station Group - Construction	06-29-13	04-15-15
DBB-170 - BASELINE 3/30/2012	12-22-13	09-15-15
DBB-170 - West Oahu Station Group - Construction	12-22-13	09-15-15
UH West Oahu Park-and-Ride and Ho`opili Station Finishes Final Design & Construction	10-01-14	07-01-18
FD-600 - BASELINE 3/30/2012	10-01-14	01-15-16
FD-600 UH West Oahu Park and Ride and Ho`opili Station Finishes - Design	10-01-14	01-15-16
DBB-600 - BASELINE 3/30/2012	06-15-16	07-01-18
DBB-600 UH West Oahu Park and Ride / Ho`opili Station Finishes - Construction	06-15-16	07-01-18
KAMEHAMEHA HIGHWAY (KHG) - SECTION 1	06-22-10 A	03-18-18
KH Guideway	07-12-11 A	06-15-15
DB-320 - BASELINE 3/30/2012	07-12-11 A	06-15-15
DB-320 - KHG Guideway - Design & Construction	07-12-11 A	06-15-15
KHSG Stations	06-22-10 A	09-15-15
DBB-370 - BASELINE 3/30/2012	06-15-14	09-15-15
DBB-370 - KHSG Station Group - Construction	06-15-14	09-15-15
FD-340 - BASELINE 3/30/2012	06-22-10 A	11-15-13
FD-340 - KHSG Design - Design	10-18-12	12-15-13
Pearl Highlands Parking Structure & Ramps	12-04-13	03-18-18
FD-245 - BASELINE 3/30/2012	12-04-13	07-19-15
FD-245 - Pearl Highlands Parking Structure & H2 Ramps - Design	12-04-13	07-20-15
DBB-275 - Construction - BASELINE 3/30/2012	01-15-16	03-18-18
DBB-275 - Pearl Highlands Parking Structure & H2 Ramps - Construction	01-15-16	03-18-18
AIRPORT - SECTION 2	01-05-12 A	07-13-17
Airport Utilities	01-05-12 A	03-15-15



Gantt Chart Legend
BASELINE
DB / DBOM
DESIGN
CONSTRUCTION
PROGRESS

Baselined as of 3-30-12 Data Date (Update) 8-31-12

Design Duration Reflects Notice to Proceed-Bid Ready

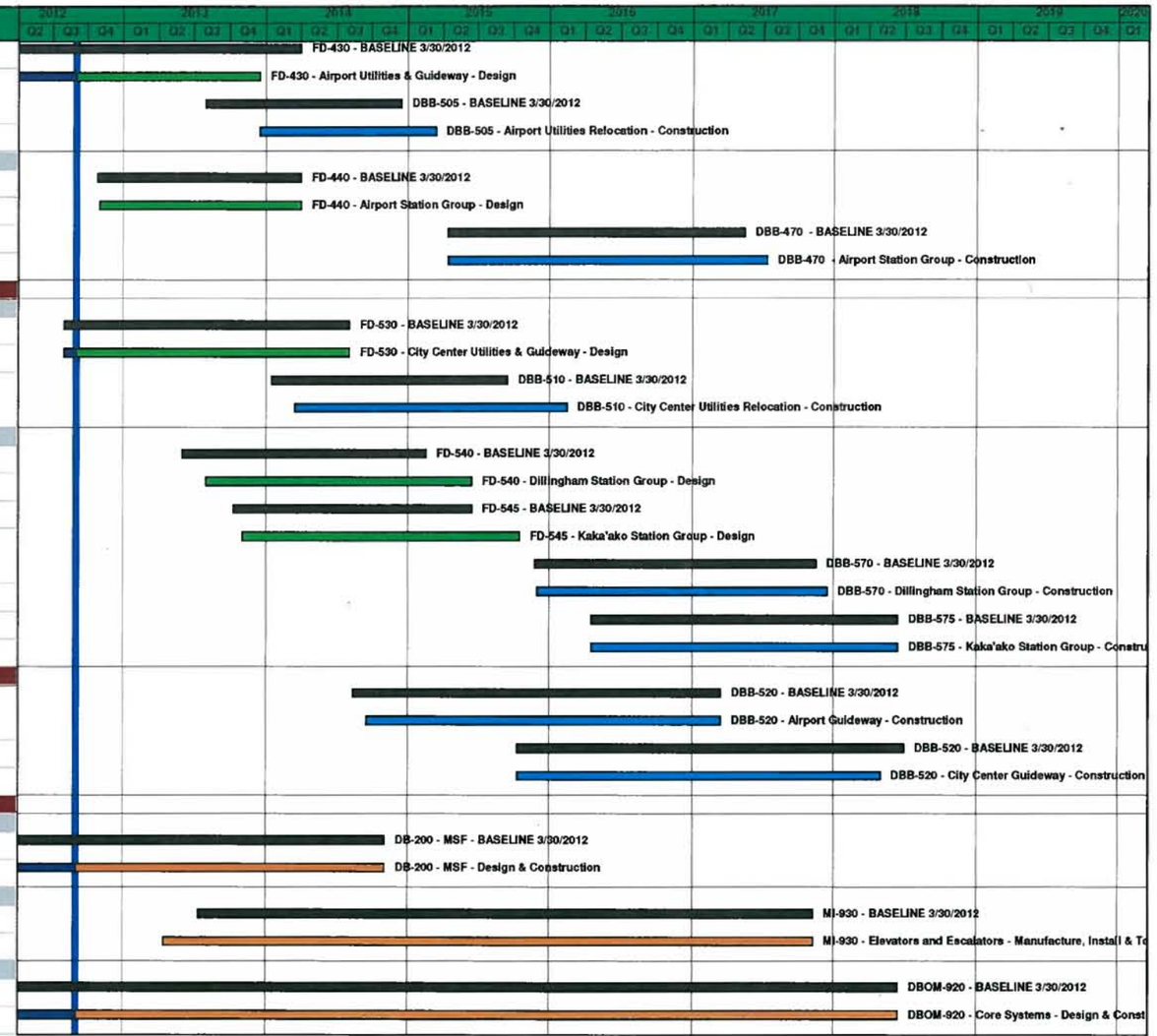
Construction Durations Reflects Notice to Proceed-Substantial Completion

Honolulu Rail Transit Project

MPS Summary - Key Data / Design & Construction Contracts

HART
HONOLULU AUTHORITY for RAPID TRANSPORTATION

Activity Name	Start	Finish
FD-430 - BASELINE 3/30/2012	01-05-12 A	04-01-14
FD-430 - Airport Utilities & Guideway - Design	01-05-12 A	12-15-13
DBB-505 - BASELINE 3/30/2012	08-01-13	12-15-14
DBB-505 - Airport Utilities Relocation - Construction	12-15-13	03-15-15
Airport Stations	10-26-12	07-13-17
FD-440 - BASELINE 3/30/2012	10-26-12	04-01-14
FD-440 - Airport Station Group - Design	10-31-12	04-01-14
DBB-470 - BASELINE 3/30/2012	04-15-15	05-15-17
DBB-470 - Airport Station Group - Construction	04-15-15	07-13-17
CITY CENTER (CC) - SECTION 2	08-01-12 A	06-15-18
City Center Utilities	08-01-12 A	02-15-16
FD-530 - BASELINE 3/30/2012	08-01-12 A	08-01-14
FD-530 - City Center Utilities & Guideway - Design	08-01-12 A	08-01-14
DBB-510 - BASELINE 3/30/2012	01-18-14	09-15-15
DBB-510 - City Center Utilities Relocation - Construction	03-15-14	02-15-16
City Center Stations	06-01-13	06-15-18
FD-540 - BASELINE 3/30/2012	06-01-13	02-15-15
FD-540 - Dillingham Station Group - Design	08-01-13	06-15-15
FD-545 - BASELINE 3/30/2012	10-12-13	06-15-15
FD-545 - Kaka'ako Station Group - Design	11-01-13	10-15-15
DBB-570 - BASELINE 3/30/2012	11-25-15	11-15-17
DBB-570 - Dillingham Station Group - Construction	12-01-15	12-15-17
DBB-575 - BASELINE 3/30/2012	04-19-16	06-15-18
DBB-575 - Kaka'ako Station Group - Construction	04-19-16	06-15-18
Airport & City Center Guideway Construction (Combined)	08-14-14	07-01-18
DBB-520 - BASELINE 3/30/2012	08-14-14	03-15-17
DBB-520 - Airport Guideway - Construction	09-15-14	03-15-17
DBB-520 - BASELINE 3/30/2012	10-10-15	07-01-18
DBB-520 - City Center Guideway - Construction	10-10-15	05-01-18
PROJECT WIDE - ALL SECTIONS	03-03-11 A	06-15-18
Maintenance & Storage Facility (MSF)	03-05-11 A	11-01-14
DB-200 - MSF - BASELINE 3/30/2012	03-05-11 A	11-01-14
DB-200 - MSF - Design & Construction	07-25-11 A	11-01-14
Elevators & Escalators	04-15-13	11-09-17
MI-930 - BASELINE 3/30/2012	07-15-13	11-09-17
MI-930 - Elevators and Escalators - Manufacture, Install & Test	04-15-13	11-09-17
Core Systems	03-03-11 A	06-15-18
DBOM-920 - BASELINE 3/30/2012	03-03-11 A	06-15-18
DBOM-920 - Core Systems - Design & Construction	01-13-12 A	06-15-18



Gantt Chart Legend
- BASELINE
- DB / DBOM
- DESIGN
- CONSTRUCTION
- PROGRESS

Baselined as of 3-30-12 Data Date (Update) 8-31-12

Design Duration Reflects Notice to Proceed-Bid Ready

Construction Durations Reflects Notice to Proceed-Substantial Completion

Honolulu Rail Transit Project

MPS Summary - Key Data / Design & Construction Contracts

HART HONOLULU AUTHORITY ~ RAPID TRANSPORTATION

2.4 Contingency Management

As part of the FFGA readiness process, the Risk and Contingency Management Plan (RCMP) is being revised in accordance with the FFGA CPP, MPS, Project Budget and Financial Plan. The cost and schedule contingency drawdown curves in the draft RCMP have been adjusted and submitted for FTA review. These curves 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 should trend 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. Upon FTA acceptance of the revised RCMP, the baseline drawdown curves will be included in the monthly progress report to show actual versus forecast utilization of cost and schedule contingencies.

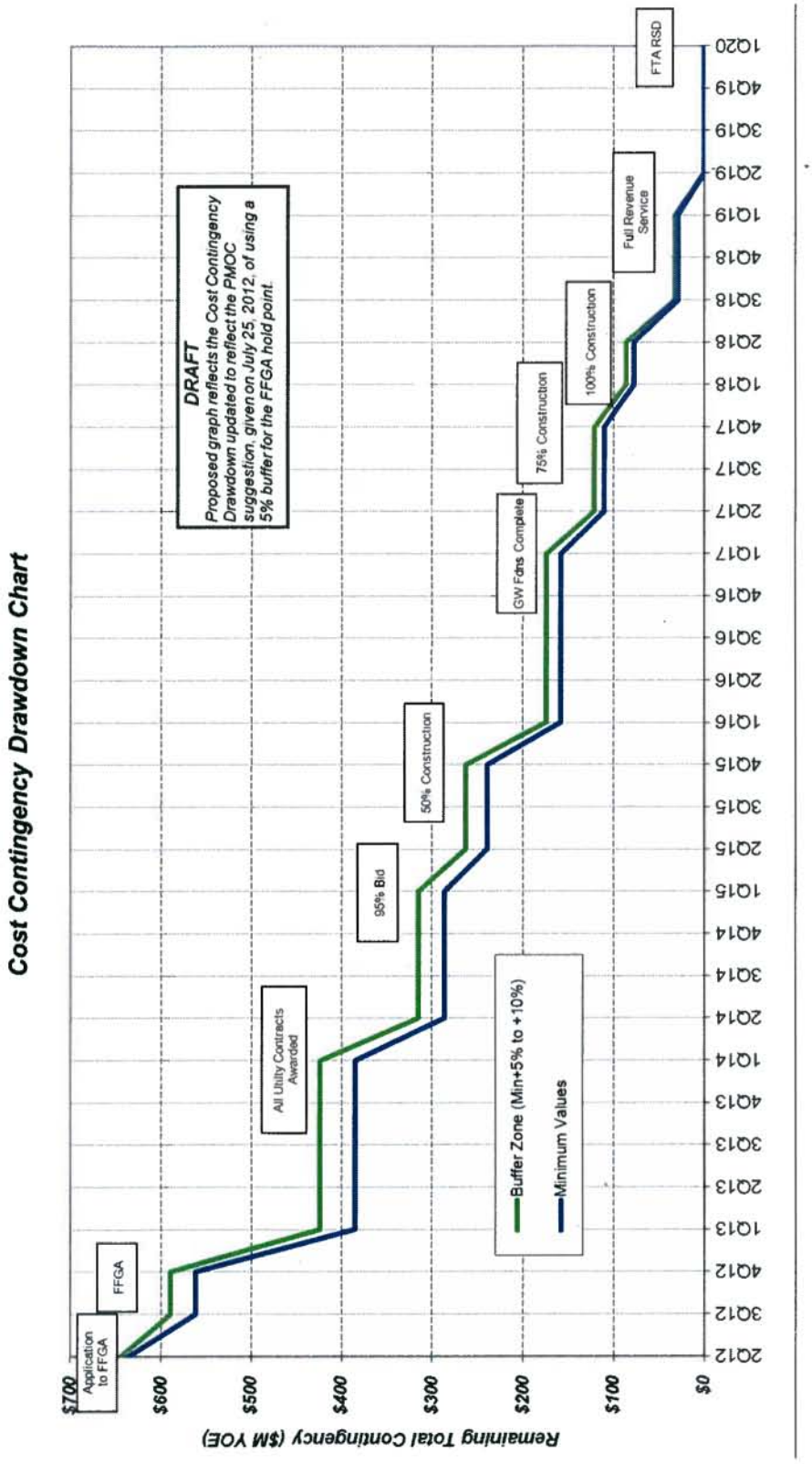
In re-baselining the Project Budget for FFGA, HART generated a bottom-up estimate (BUE) for each work package identified in the CPP, based on the appropriate design and current pricing of material, equipment, construction labor, professional services, real estate and all other costs. These packages were then evaluated with respect to the risks involved and contingencies were allocated in accordance with FTA guidelines and current risk modeling methodologies, as well as determinations of any pending or probable changes currently being negotiated with contractors and other potential or possible issues that could affect the budget or schedule.

Each month, the PMOC will participate in a breakout session with HART to review a list of changes being considered for each contract. Changes are classified as pending, probable or potential and are summarized as "Chgs ID'd" (Changes Identified) in Project Cost reports. Pending changes are changes that have already been negotiated, have agreements reached and are in the signature/approval process. Probable changes are those already in the change management process that have been quantified to the extent of a HART-GEC estimate and a Contractor estimate with a time-impact evaluation (TIE), where appropriate. Probable changes are likely to have a negotiation strategy memo prepared and negotiations may be underway. Potential changes have only a HART-GEC estimate available to be discussed in more general terms. Finally, possible issues are less-defined, not yet quantified issues identified because they could have a future impact on the budget or timing of work.

HART will oversee the strategy being formulated in order to avoid or mitigate as well as plan the timing of any potential changes. Breakout session discussions will also focus on opportunities to reduce costs and accelerate contract-scheduled activities to attain key milestones earlier than targeted. The session will conclude 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 latest proposed draft Cost Contingency Drawdown Curve, subject to FTA/PMOC review as part of the RCMP revision process, is presented in Figure 12 on the next page.

Figure 12. Draft Cost Contingency Drawdown Chart



2.5 PMOC Issues and HART Actions Taken

The Project Management Oversight Contractor (PMOC) identified the following key "Issues or Concerns" in its July 2012 Monthly Report to the FTA. HART actions to address each issue are described below. Issues closed by the PMOC are listed in Figure 13 *on the next page.*

- **Design-Build Project Cost Forecasting**

Issue: "The PMOC has concerns with the adequacy of the grantee's ability to forecast costs for the existing Design-Build (DB) contracts. The grantee's current Estimate at Completion (EAC) does not accurately provide an assessment of the contract costs. The PMOC provided some recommendations in February 2012, and a detailed workshop was held on March 6, 2012 to review the grantee's process for developing the EAC. HART provided improved EAC assessment of the contract costs to the PMOC. The PMOC emphasizes that it is critical that this issue be quickly corrected to demonstrate that the grantee has the Technical Capacity and Capability going forward. The PMOC initiated a separate breakout session with HART in June 2012 and will hold regularly scheduled breakout sessions every month to review forecast costs, EAC, MPS, risk management and cost containment measures."

Action: HART has provided additional details with regard to forecast cost projections without putting HART at risk of weakening their negotiating position with the contractors by divulging information or strategies that must remain confidential. Also, on July 10, HART implemented the first monthly Cost/Schedule Workshop with the PMOC to address pending, probable and potential changes and possible future issues for each active contract that could affect the total contingency reserve. This process has been incorporated into the most recent Risk and Contingency Management Plan (RCMP) draft.

- **License Agreement with the Department of Hawaiian Home Lands (DHHL)**

Issue: "The grantee must execute a license agreement with the Department of Hawaiian Homelands (DHHL) to construct the MSF on the Navy Drum Site. The PMOC has recommended that the License Agreement be provided to the FTA and PMOC for review prior to execution. A Request for Right of Entry (ROE) for construction was approved by the DHHL Board. The ROE allows access to Navy Drum Site for construction until the property acquisition occurs or the License Agreement is finalized."

Action: License agreement discussions with DHHL continue as the final agreement documentation goes through legal review. There does not appear to be any issue that will impact the construction schedule for MSF.

- **State Safety Oversight Agency (SOA) Consultant**

Issue: "An interim HDOT State Oversight Agency (SOA) Project Manager has been working part-time since April 2011. HDOT anticipates hiring a full-time SOA Project Manager by summer 2012. FTA had identified filling of this position by February 2012 in the Final Design approval letter. Given the status of this Project, it is critical that the permanent SOA Project Manager be identified as soon as possible."

Action: HDOT is making efforts to fill the SOA Project Manager position by October. In the meantime, HDOT has executed a contract with a Consultant to focus on the requirements for the rail project. Dovetail Consulting, Inc. has signed the contract with HDOT and conducted an on-site assessment of the project. The Consultant met with HART staff, gathered information for the State Standard Plan and conducted an interview with the Executive Director and CEO.

- **HDR Engineering, Inc. Acquisition of Program Management Support Consultant (PMSC) InfraConsult LLC**

Issue: "HDR's acquisition of InfraConsult LLC has created conflict of interest (COI) issues for HART. HDR is currently under contract to complete design of Farrington Highway Stations Group (FHSG). It is anticipated that bid-ready documents will be completed in February 2013. HART is preparing a plan on how to mitigate this conflict, which includes several critical aspects of the project (quality, safety/security, project controls)."

Action: HART has put a system in place where no InfraConsult employee will have direct oversight over HDR or this contract. Qualified City employees will perform this work. InfraConsult employees have signed statements that they will not oversee or bill for work with HDR or this contract. HDR has also stated to HART that it will not compete for any future contracts associated with the rail project.

Figure 13. Closed PMOC Issues

Closed Issues	
Description	**Month Closed**
Master Project Schedule (MPS) Critical Path	July 2011
Utilization of Letters of No Prejudice (LONPs)	February 2012
Program Management Support Consultant (PMSC) contract re-procured and NTP issued to InfraConsult LLC.	February 2012
Real Estate Consultant contract procured and NTP issued to Paragon Partners Ltd.	March 2012
WOFH Precast Yard	June 2012
MSF Long-Lead Materials Procurement	July 2012

3 CONTRACT STATUS

3.1 Procurement Status

Figure 14. Procurement: Design-Build (DB), Design-Build-Operate-Maintain (DBOM) and Manufacture-Install-Maintain (MIM) Contracts

SEPTEMBER 2012 UPDATE

Procurement Tracking Report

Design-Build (DB), Design-Build-Operate-Maintain (DBOM) and Manufacture-Install-Test-Maintain Contracts

Contract #	Contract Name	Sched Ref*	Part 1 Issue RFQ	Part 1 SOQs Due	Part 1 Select SQO	Part 2 Issue RFP	Part 2 Submit Proposals	Part 2 Execute Contract	Issue NTP 1	Issue NTP 1A	Issue NTP 1B	Issue NTP 1C	Issue NTP 2	Issue NTP 3	Issue NTP 4	Contract Completion	Comments
Design-Build Contracts																	
DB-120	West Oahu/Farrington Highway Guideway (WOFH) *[Kiewit Infrastructure West Company (KIWC)]*	CF	Feb 04 '09	Mar 13 '09	Mar 21 '09	Apr 03 '09	Aug 28 '09	Nov 11 '09	Dec 01 '09	Mar 11 '10	Mar 23 '10	Jun 04 '10	Mar 03 '11	May 24 '11	Feb 06 '12	Jan 31 '16	*NTP1*: Pre-PE; *NTP1A*: Geotech (03/11/10); *NTP1B*: Interim Design/Prelim Engrg (03/23/10); *NTP1C*: Test Shafts (06/04/10); *NTP2*: Utilities; *NTP3*: Final Design; *NTP4A*: Construction w/o Casting Yd (02/06/12) Substan'l Compl'n = January 2015
		Act	Feb 04 '09	Mar 13 '09	Mar 21 '09	Apr 03 '09	Aug 28 '09	Nov 17 '09	Dec 01 '09	Mar 11 '10	Mar 23 '10	Jun 04 '10	Mar 03 '11	May 24 '11	Feb 06 '12		
		B/L	Feb 04 '09	Mar 13 '09	Mar 21 '09	Apr 03 '09	Aug 28 '09	Nov 01 '09	Dec 01 '09	Mar 11 '10	Mar 23 '10	Jun 04 '10	Dec 08 '10	Mar 15 '11	Feb 06 '12	Jan 31 '15	
		Var	-0-	-0-	-0-	-0-	-0-	(16)	-0-	-0-	-0-	-0-	(85)	(70)	-0-	(365)	
DB-200	Maintenance and Storage Facility (MSF) *[Kiewit/Kobayashi Joint Venture (KKJV)]*	CF	May 29 '09	Jul 02 '09	Jul 17 '09	Jul 24 '09	Feb 17 '10	Jun 30 '11	Jul 25 '11	—	—	—	Jan 10 '12	Feb 07 '12	—	Dec 15 '15	*NTP1*: Prelim Engrg; *NTP2*: Final Design; *NTP3*: Construction Substan'l Compl'n = November 2014
		Act	May 29 '09	Jul 02 '09	Jul 17 '09	Jul 24 '09	Feb 17 '10	Jun 30 '11	Jul 25 '11	—	—	—	Jan 10 '12	Feb 07 '12	—		
		B/L	May 29 '09	Jul 02 '09	Jul 17 '09	Jul 24 '09	Feb 17 '10	Jun 30 '11	Mar 05 '11	—	—	—	Sep 03 '11	Feb 07 '12	—	Jan 05 '15	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	(142)	—	—	—	(129)	-0-	—	(344)	
DB-320	Kamehameha Guideway (KHG) *[Kiewit Infrastructure West Company (KIWC)]*	CF	Nov 18 '09	Jan 05 '10	Feb 15 '10	Mar 19 '10	Oct 07 '10	Jun 30 '11	Jul 12 '11	—	—	—	Jan 10 '12	Feb 07 '12	—	Jul 01 '16	*NTP1*: Prelim Engrg; *NTP2*: Final Design; *NTP3A*: Construction (02/07/12) Substan'l Compl'n = June 2015
		Act	Nov 18 '09	Jan 05 '10	Feb 15 '10	Mar 19 '10	Oct 07 '10	Jun 30 '11	Jul 12 '11	—	—	—	Jan 10 '12	Feb 07 '12	—		
		B/L	Nov 18 '09	Jan 05 '10	Feb 15 '10	Mar 19 '10	Oct 07 '10	Apr 19 '11	Apr 23 '11	—	—	—	Sep 03 '11	Feb 07 '12	—	Jul 01 '15	
		Var	-0-	-0-	-0-	-0-	-0-	(72)	(80)	—	—	—	(129)	-0-	—	(365)	
Design-Bid-Operate-Maintain Contract																	
DBOM-820	Core Systems Contract *[Ansaldo Honolulu JV]*	CF	Apr 09 '09	Jun 05 '09	Jul 15 '09	Aug 17 '09	Jun 07 '10	Nov 29 '11	Jan 13 '12	—			Jul 15 '12	Apr 15 '13	—	Apr 01 '18	Ready for Integrated Testing: E Kap to Aloha Stadium Op Seg: September 2015; E Kap to Middle Street Op Seg: January 2017; E Kap to Ala Moana Op Seg: June 2018
		Act	Apr 09 '09	Jun 05 '09	Jul 15 '09	Aug 17 '09	Jun 07 '10	Feb 28 '11	Mar 03 '11	Jul 05 '12			Jul 05 '12		—		
		B/L	Apr 09 '09	Jun 05 '09	Jul 15 '09	Aug 17 '09	Jun 07 '10	Feb 28 '11	Mar 03 '11	—			Jun 01 '12	Apr 15 '13	—	Apr 01 '18	
		Var	-0-	-0-	-0-	-0-	-0-	(275)	(318)	—	-0-	-0-	(34)	-0-	—	-0-	
Manufacture-Install-Test-Maintain																	
MI-930	Elevators and Escalators	CF	Aug 20 '12	Oct 18 '12	Oct 30 '12	Oct 31 '12	Dec 21 '13	Apr 15 '13	Apr 15 '13				Sep 15 '13	Jan 15 '16	—	Nov 09 '17	Installation of first elevator is planned to occur August 2014 at Waipahu Station. Last elevator to be installed July 2017 at Ala Moana Ctr. *NTP1*: Design Coord *NTP2*: Manufacture WOSG / FHSG / KH *NTP3*: Manufacture Airport / Dillingham/ Kaka'ako
		Act	Aug 20 '12												—		
		B/L	Sep 15 '12	Oct 30 '12	Dec 15 '12	Jan 15 '13	Mar 15 '13	Jun 15 '13	Jul 15 '13				Jan 15 '15	Mar 15 '16	—	Nov 09 '17	
		Var	+26	+12	+46	+76	(281)	+61	+91	-0-	-0-	-0-	+487	+60	—	-0-	

[Successful Contractor]

* Schedule Reference:
CF = *Current Forecast* *AIS Delay Impacts Incorporated Into the Current Forecast.*
ACT = ACTUAL Completed Achieved this Month
B/L = Baseline Master Project Schedule
[Note: B/L reflects the re-baselined Contract Packaging Plan (Revision 3, Mar 30 '12) and the re-baselined Master Project Schedule (Revision 4, Mar 30 '12).]
Var = Variance of (Baseline Master Project Schedule) Less *(Current Forecast)*

Notes:
WOFH: NTP4A: Construction w/o Casting Yard 02/06/2012
KHG: NTP3A: Construction 02/07/2012

Baselined (as *reflected in the Master Project Schedule, Revision 4, March 30, 2012*)

Figure 15. Procurement: Design-Bid-Build (DBB) Contracts

SEPTEMBER 2012 UPDATE

Procurement Tracking Report

Design-Bid-Build (DBB) Contracts

Contract #	Contract Name	Sched Ref*	Bid Ready Dates (Ref.)	Advertise for Bids	Bid Opening	Execute Contract	Issue NTP	Contract Completion	Comments
Design-Bid-Build Contracts									
DBB-505	Airport Section Utilities Construction	CF	Aug 01 '13	Aug 15 '13	Oct 15 '13	Nov 30 '13	Dec 15 '13	Mar 15 '15	
		Act							Extended bid period to allow time for potholing activities delayed by work suspension.
		BL	Mar 01 '13	Mar 29 '13	May 31 '13	Jul 15 '13	Aug 01 '13	Dec 15 '14	
		Var	(153)	(139)	(137)	(138)	(136)	(90)	
DBB-270	Farrington Highway Station Group Construction	CF	Feb 15 '13	Jul 15 '13	Sep 15 '13	Oct 30 '13	Nov 15 '13	Jan 15 '16	Substantial Completion:
		Act							Leeward Comm College Sta — Aug 15 '15
		BL	Feb 15 '13	Mar 17 '13	May 01 '13	Jun 14 '13	Jun 29 '13	May 30 '15	Waipahu Transit Sta — Oct 15 '15
		Var	-0-	(120)	(137)	(138)	(139)	(230)	W. Loch Station — Dec 15 '15
DBB-170	West Oahu Station Group Construction	CF	Aug 11 '13	Nov 15 '13	Jan 15 '14	Feb 15 '14	Mar 15 '14	Jun 15 '16	Substantial Completion:
		Act							Ho'opili Station — Nov 15 '15
		BL	Aug 11 '13	Sep 15 '13	Nov 01 '13	Dec 08 '13	Dec 22 '13	Apr 29 '16	UH West Oahu Station — Jan 15 '16
		Var	-0-	(61)	(75)	(69)	(83)	(47)	E. Kapolei Station — Mar 15 '16
DBB-370	Kamehameha Highway Station Group Construction (Includes H2/R2 Ramp)	CF	Dec 15 '13	Jan 15 '14	Mar 15 '14	Apr 30 '14	Jun 15 '14	Jul 30 '15	Substantial Completion:
		Act							Pearlridge Station — May 15 '16
		BL	Dec 15 '13	Dec 16 '13	Jan 30 '14	Mar 17 '14	Mar 31 '14	Aug 29 '15	Aloha Stadium Station — Jul 15 '16
		Var	-0-	(30)	(44)	(44)	(76)	(336)	Pearl Highlands Station — Sep 15 '16
DBB-510	City Center Section Utilities Construction	CF	Oct 15 '13	Nov 15 '13	Jan 15 '13	Feb 15 '14	Mar 15 '14	Feb 15 '16	
		Act							
		BL	Nov 15 '13	Sep 16 '13	Nov 15 '13	Jan 04 '14	Jan 18 '14	Sep 15 '15	
		Var	+31	(60)	+304	(42)	(56)	(153)	
DBB-620	Airport and City Center Sections Guideway Construction	CF	Aug 01 '14	Jun 01 '14	Jul 15 '14	Aug 30 '14	Sep 15 '14	May 01 '18	
		Act							
		BL	Aug 01 '14	May 01 '14	Jun 16 '14	Jul 31 '14	Aug 14 '14	Jul 01 '18	
		Var	-0-	(31)	(29)	(30)	(32)	+61	
DBB-470	Airport Station Group Construction	CF	Apr 01 '14	Nov 15 '14	Jan 15 '15	Feb 28 '15	Apr 15 '15	Jul 29 '17	Substantial Completion:
		Act							Pearl Harbor Station — Nov 15 '16
		BL	Apr 01 '14	Nov 15 '14	Jan 15 '15	Feb 28 '15	Apr 15 '15	Jul 29 '17	Airport Station — Jan 15 '17
		Var	-0-	-0-	-0-	-0-	-0-	-0-	Lagoon Dr Station — Mar 15 '17
									Middle Street Station — May 15 '17
DBB-570	Dillingham Station Group Construction	CF	Jun 15 '15	Jul 15 '15	Sep 28 '15	Nov 12 '15	Dec 01 '15	Feb 15 '18	Substantial Completion:
		Act							Kalihi Station — Jun 15 '17
		BL	Feb 15 '15	Aug 14 '15	Sep 28 '15	Nov 12 '15	Nov 25 '15	Dec 30 '17	Kapalama Station — Aug 15 '17
		Var	(120)	+30	-0-	-0-	(6)	(47)	Iwilei Station — Oct 15 '17
									Chinatown Station — Dec 15 '17
DBB-575	Kaka'ako Station Group Construction	CF	Oct 15 '15	Jan 04 '16	Feb 18 '16	Apr 04 '16	Apr 19 '16	Jul 30 '18	Substantial Completion:
		Act							Downtown Station — Dec 15 '17
		BL	Jun 15 '15	Jan 04 '16	Feb 18 '16	Apr 04 '16	Apr 19 '16	Jul 30 '18	Civic Center Station — Feb 15 '18
		Var	(122)	-0-	-0-	-0-	-0-	-0-	Kaka'ako Station — Apr 15 '18
									Ala Moana Station — Jun 15 '18
DBB-275	Pearl Highlands Parking Structure/ Bus Transit Center Construction (Includes H2/R1 Ramp)	CF	Oct 01 '15	Oct 15 '15	Dec 01 '15	Dec 15 '15	Jan 15 '16	Apr 29 '18	Substantial Completion: Mar 15 '18
		Act							
		BL	Oct 01 '15	Oct 15 '15	Dec 01 '15	Dec 15 '15	Jan 15 '16	Apr 29 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	
DBB-600	UH West Oahu Park-and-Ride and Ho'opili Station Finishes Construction	CF	Jan 15 '16	Feb 15 '16	Apr 15 '16	May 30 '16	Jun 15 '16	Aug 15 '18	Substantial Completion: Jul 01 '18
		Act							
		BL	Jan 15 '16	Feb 15 '16	Apr 15 '16	May 30 '16	Jun 15 '16	Aug 15 '18	*This procurement should be consistent with what we put in the latest cash flow exercise.*
		Var	-0-	-0-	-0-	-0-	-0-	-0-	

[Successful Contractor]

Note: Bid Ready Dates from FD Tracking sheet for Reference.

* Schedule Reference:
- CF = *Current Forecast* *AIS Delay Impacts Incorporated into the Current Forecast.*
- ACT = ACTUAL — Completed — Achieved this Month
- BL = Baseline Master Project Schedule
  [Note: BL reflects the re-baselined Contract Packaging Plan (Revision 3, Mar 30 '12) and the re-baselined Master Project Schedule (Revision 4, Mar 30 '12).]
- Variance = Variance of (Baseline Master Project Schedule) Less (*Current Forecast*)
  +Ahead/(Behind)/-0- versus the BL Master Project Schedule

Note: Contract Completion based on 45 days after Substantial Completion (or, with station groups,

Baselined (as *reflected in the Master Project Schedule, Revision 4, March 30, 2012*)

Figure 16. Procurement: Final Design (FD) Contracts

SEPTEMBER 2012 UPDATE

Procurement Tracking Report

Final Design Contracts

Contract #	Contract Name	Sched Ref*	Issue RFQ	SOQs Submitted	Select BQO/ Advise BFS	Receive SOW	Receive Price Proposal	Finalize Contract	Issue NTP	Bid Ready	Contract Completion	Comments
Final Design Agreements												
FD-240	Farrington Highway Station Final Design *[HDR Engineering, Inc.]*	CF	Oct 02 '09	Nov 19 '09			Feb 15 '10	Apr 15 '10	Jun 18 '12	May 15 '13	Jan 29 '16	NTP 1b : 7/13/2012 - PE Design (A)
		Act	Oct 02 '09	Nov 19 '09			Feb 15 '10	Apr 15 '10	Jun 15 '12			NTP 2 : 09/15/2012 - Interim Design (CF)
		B/L	Oct 02 '09	Nov 19 '09			Feb 15 '10	Apr 15 '10	Jan 14 '11	Feb 15 '13	May 30 '15	NTP 3 : 11/22/2012 - Final Design (CF)
		Var	-0-	-0-	-0-	-0-	-0-	-0-	(518)	(89)	(244)	
FD-140	West Oahu Station Group Final Design *[URS Corp.]*	CF	Jan 14 '10				Feb 08 '12	May 29 '12	Jun 15 '12	Aug 11 '13	Apr 29 '16	NTP 1a : 08/15/2012 - SoM, Workshop, Design Schedule
		Act	Jan 14 '10				Feb 08 '12	Jun 14 '12	Jun 15 '12			NTP 1b : 08/11/2012 - PE Design (A)
		B/L	Jan 14 '10				Feb 11 '11	May 29 '12	Jun 08 '12	Aug 11 '13	Oct 30 '15	NTP 2 : 12/4/2012 - Interim Design (CF)
		Var	0-	-0-	-0-	-0-	(362)	(16)	(7)	-0-	(182)	NTP 3 : 02/24/2013 - Final Design (CF)
FD-340	Kamehameha Highway Station Group Final Design (includes H2/R2 Ramp)	CF	Jun 28 '11	Aug 04 '11	Sep 28 '11	Aug 20 '12	Aug 31 '12	Oct 17 '12	Oct 18 '12	Dec 15 '13	May 30 '16	NTP 1a : 10/18/2012 - SoM, Workshop, Design Schedule (CF)
		Act	Jun 28 '11	Aug 04 '11	Sep 28 '11	Aug 20 '12	Aug 31 '12					NTP 1b : 11/29/2012 - PE Design (CF)
		B/L	Jun 28 '11	Aug 04 '11	Sep 28 '11	Oct 19 '11	Feb 28 '12	Jun 08 '12	Jun 22 '12	Nov 15 '13	Aug 29 '15	NTP 2 : 03/19/2013 - Interim Design (CF)
		Var	-0-	-0-	-0-	(306)	(186)	(131)	(118)	(30)	—	NTP 3 : 07/30/2013 - Final Design (CF)
FD-430	Airport Section Guideway and Utilities Final Design *[AECOM Tech Svcs, Inc.]*	*Utilities*							*Utilities*	May 22 '13		*Same for both Utilities and Guideway*
												NTP 1a : 01/05/2012- SoM, Workshop, Design Schedule (A)
		CF	Jan 26 '11	Mar 14 '11	Apr 09 '11	Jun 09 '11	Sep 20 '11	Dec 22 '11	Jan 05 '12	Mar 01 '13	#REF!	NTP 1b: 02/22/2012 - Updating the PE (A)
		Act	Jan 26 '11	Mar 14 '11	Apr 09 '11	Jun 09 '11	Sep 20 '11	Dec 22 '11	Jan 05 '12	(82)		NTP 2: 07/23/2012 - Interim Design (A)
		B/L	Jan 26 '11	Mar 14 '11	Apr 09 '11	Jun 09 '11	Sep 20 '11	Jul 31 '11	Aug 01 '11	Apr 01 '14	Aug 15 '18	NTP 3 :(U) 02/21/2013 / (GW) 03/08/2013 - Final Design (CF)
		Var	-0-	-0-	-0-	-0-	-0-	+144	+157		#REF!	4-Month "Buffer Float" to start of combined GW pkg bid period.
		Guideway							*Guideway*	Apr 01 '14 -0-		
FD-530	City Center Section Guideway and Utilities Final Design *[AECOM Tech Svcs, Inc.]*	*Utilities*							*Utilities*	Nov 15 '13		*Same for both Utilities and Guideway*
												NTP 1a : 07/31/2012- SoM, Workshop, Design Schedule (A)
		CF	Dec 16 '11	Feb 09 '12	Apr 04 '12	May 11 '12	Jun 05 '12	Aug 01 '12	Aug 01 '12	Aug 15 '13	#REF!	NTP 1b: 09/23/2012 - Updating the PE (CF)
		Act	Dec 16 '11	Feb 09 '12	Apr 04 '12	May 14 '12	Jun 05 '12	Jul 30 '12	Jul 31 '12	(92)		NTP 2: 03/12/2013 - Interim Design (CF)
		B/L	Dec 16 '11	Feb 09 '12	Apr 04 '12	May 11 '12	Jun 05 '12	Jul 18 '12	Aug 01 '12	Aug 01 '14	Aug 15 '18	NTP 3 :(U) 08/19/2013 / (GW) 11/17/2013 - Final Design (CF)
		Var	-0-	-0-	-0-	-0-	-0-	(12)	+1		#REF!	Engrg Svcs during Construction. Airport Guideway Design
		Guideway							*Guideway*	Aug 01 '14 -0-		to be combined into one pkg - (DBB-520) Airport and City Center Guideway Construction contract.
FD-440	Airport Station Group Final Design	CF	Mar 30 '12	May 10 '12	Jun 21 '12	Jul 10 '12	Aug 14 '12	Oct 11 '12	Oct 31 '12	Apr 01 '14	Jul 29 '17	NTP 1a : 10/11/2012 - SoM, Workshop, Design Schedule (CF)
		Act	Mar 30 '12	May 10 '12	Jun 14 '12	Jul 19 '12	Aug 14 '12					NTP 1b : 11/20/2012 - PE Design (CF)
		B/L	Mar 30 '12	May 10 '12	Jun 21 '12	Jul 21 '12	Aug 23 '12	Oct 12 '12	Oct 26 '12	Apr 01 '14	Jul 29 '17	NTP 2 : 03/20/2013 - Interim Design (CF)
		Var	-0-	-0-	+7	+11	+9	+1	(5)	-0-	-0-	NTP 3 : 08/25/2013 - Final Design (CF)
												9-Month "Buffer Float" to start of construction pkg bid period.
FD-540	Dillingham Station Group Final Design	CF	Nov 01 '12	Dec 21 '12	Feb 24 '13	Apr 02 '13	May 02 '13	Jul 15 '13	Aug 01 '13	Jun 15 '16	Jul 31 '18	
		Act										
		B/L	Sep 03 '12	Nov 07 '12	Jan 11 '13	Feb 17 '13	Mar 19 '13	May 18 '13	Jun 01 '13	Feb 15 '15	Jul 31 '18	
		Var	(59)	(44)	(44)	(64)	(44)	(58)	(61)	(120)	-0-	9-Month "Buffer Float" to start of construction pkg bid period.
FD-545	Kaka'ako Station Group Final Design	CF	Feb 15 '13	Apr 15 '13	Jun 15 '13	Jul 20 '13	Aug 15 '13	Oct 15 '13	Nov 01 '13	Oct 15 '15	Sep 14 '18	
		Act										
		B/L	Dec 15 '12	Feb 18 '13	Apr 24 '13	May 31 '13	Jun 30 '13	Aug 29 '13	Sep 12 '13	Jun 15 '15	Sep 14 '18	
		Var	(62)	(56)	(52)	(50)	(45)	(47)	(50)	(122)	-0-	9-Month "Buffer Float" to start of construction pkg bid period.
FD-245	Pearl Highlands Parking Structure/ Bus Transit Center Final Design (includes H2/R1 Ramp)	CF	Jun 30 '13	Aug 14 '13	Sep 28 '13	Nov 04 '13	Dec 04 '13	Feb 02 '14	Feb 16 '14	Oct 01 '15	Apr 29 '18	
		Act										
		B/L	Jun 30 '13	Aug 14 '13	Sep 28 '13	Nov 04 '13	Dec 04 '13	Feb 02 '14	Feb 16 '14	Oct 01 '15	Apr 29 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	
FD-600	UH West Oahu Park-and-Ride and Ho`opili Station Finishes Final Design	CF	Jan 02 '14	Feb 28 '14	Apr 01 '14	Jun 01 '14	Aug 01 '14	Sep 15 '14	Oct 01 '14	Jan 15 '16	Jun 14 '18	This procurement should be consistent with what we put in the latest cash flow exercise.
		Act										
		B/L	Jan 02 '14	Feb 28 '14	Apr 01 '14	Jun 01 '14	Aug 01 '14	Sep 15 '14	Oct 01 '14	Jan 15 '16	Jun 14 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	

[Successful Contractor]

* Schedule Reference:
- CF = *Current Forecast* *AIS Delay Impacts Incorporated Into the Current Forecast.*
- ACT = ACTUAL Completed Achieved this Month
- B/L = Baseline Master Project Schedule
  [Note: B/L reflects the re-baselined Contract Packaging Plan (Revision 3, Mar 30 '12) and the re-baselined Master Project Schedule [Revision 4, Mar 30 '12].]
- Variance = Variance of (Baseline Master Project Schedule) Less *(Current Forecast)*

Notes:
1) All Final Design Consultants are responsible for providing Design Support Services during Bidding and during Construction in accordance with their contracts. Schedule Basis: Contract Completion one (1) month after Construction Contract Completion.
2) NTP Dates in the Comments column are either Actual (A) or the Current Forecast (CF).

Baselined (as *reflected in the Master Project Schedule, Revision 4, March 30, 2012)*

Figure 17. Procurement: Construction Engineering and Inspection Services (CE&I) Contracts

SEPTEMBER 2012 UPDATE

Procurement Tracking Report

Construction Engineering and Inspection (CE&I) Services Contracts

Contract #	Contract Name	Sched Ref*	Advertise RFQ	SOQs Submitted	Select BQO/ Advise BFS	Receive SOW	Receive Price Proposal	Finalize Contract	Issue NTP	Bid Ready Dates (Ref.)	Contract Completion	Comments
Construction Engineering & Inspection Agreements												
MM-180	West Oahu and Farrington Highway Station Groups CE&I Services	CF	~~Jul 15 '12~~	~~Aug 31 '12~~	Apr 01 '13	May 15 '13	Jun 15 '13	Aug 01 '13	Aug 15 '13	Aug 11 '13	Jun 15 '16	
		Act	~~Jul 15 '12~~	~~Aug 31 '12~~								
		B/L	~~Jul 09 '12~~	~~Aug 08 '12~~	Sep 07 '12	Oct 08 '12	Nov 07 '12	Dec 07 '12	Dec 17 '12	Feb 15 '13	Oct 30 '15	
		Var	~~(8)~~	~~(23)~~	(206)	(219)	(220)	(237)	(241)	(177)	(229)	
MM-380	Kamehameha Highway Station Group CE&I Services (includes H2/R2 Ramp)	CF	Jan 15 '13	Mar 15 '13	Apr 16 '13	Jun 01 '13	Jul 15 '13	Sep 01 '13	Sep 16 '13	Dec 15 '13	Oct 30 '16	
		Act										
		B/L	Dec 15 '12	Feb 15 '13	Apr 01 '13	May 16 '13	Jun 17 '13	Aug 16 '13	Sep 16 '13	Nov 15 '13	Aug 29 '16	
		Var	(31)	(28)	(15)	(16)	(28)	(16)	-0-		(62)	
MM-385	Pearl Highlands Parking Structure/ Bus Transit Center CE&I Services (includes H2/R1 Ramp)	CF	Nov 01 '14	Jan 02 '15	Feb 01 '15	Mar 01 '15	Apr 04 '15	Jun 03 '15	Jul 03 '15	Oct 01 '15	Apr 29 '18	
		Act										
		B/L	Nov 01 '14	Jan 02 '15	Feb 01 '15	Mar 01 '15	Apr 04 '15	Jun 03 '15	Jul 03 '15	Oct 01 '15	Apr 29 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-		-0-	
MM-500	Airport & City Center Section Utilities CE&I Services	CF	Feb 15 '13	Apr 15 '13	Jun 01 '13	Jul 15 '13	Aug 15 '13	Oct 01 '13	Oct 15 '13	Aug 01 '13	Apr 01 '16	
		Act										
		B/L	Jul 20 '12	Aug 20 '12	Sep 10 '12	Oct 09 '12	Nov 08 '12	Dec 13 '12	Dec 28 '12	Oct 15 '13	Apr 01 '16	
		Var	(210)	(238)	(264)	(279)	(280)	(292)	(291)		-0-	
MM-485	Airport Station Group CE&I Services	CF	Nov 15 '13	Dec 16 '13	Jan 15 '14	Feb 14 '14	Mar 17 '14	May 01 '14	May 16 '14	Aug 01 '14	Jul 29 '17	
		Act										
		B/L	Nov 15 '13	Dec 16 '13	Jan 15 '14	Feb 14 '14	Mar 17 '14	May 01 '14	May 16 '14	Aug 01 '14	Jul 29 '17	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-		-0-	
MM-525	Airport and City Center Sections Guideway CE&I Services	CF	Nov 01 '13	Jan 15 '14	Mar 01 '14	Apr 15 '14	Jun 15 '14	Aug 01 '14	Sep 15 '14	Sep 14 '15	Jun 15 '18	
		Act										
		B/L	Nov 01 '13	Jan 15 '14	Mar 01 '14	Apr 15 '14	Jun 15 '14	Aug 01 '14	Sep 15 '14	Aug 01 '14	Jun 15 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-		-0-	
MM-585	Dillingham and Kaka'ako Station Groups CE&I Services	CF	Mar 15 '14	May 01 '14	Jun 01 '14	Jul 01 '14	Aug 15 '14	Sep 30 '14	Nov 17 '14	Feb 15 '15	Sep 13 '18	Bid Ready Date reflects Dillingham construction pkg. Contract completion reflects completion of Kaka'ako construction completion.
		Act										
		B/L	Mar 15 '14	May 01 '14	Jun 01 '14	Jul 01 '14	Aug 15 '14	Sep 30 '14	Nov 17 '14	Feb 15 '15	Jul 30 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-		+45	
MM-600	UH West Oahu Park-and-Ride and Ho'opili Station Finishes CE&I Services	CF	Jul 01 '15	Sep 01 '15	Oct 01 '15	Nov 15 '15	Dec 15 '15	Feb 05 '16	Mar 05 '16	Jan 15 '16	Sep 29 '18	
		Act										
		B/L	Jul 01 '15	Sep 01 '15	Oct 01 '15	Nov 15 '15	Dec 15 '15	Feb 05 '16	Mar 05 '16	Jan 15 '16	Aug 15 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-		+45	

[Successful Contractor]

* Schedule Reference:
CF = *Current Forecast* *AIS Delay Impacts Incorporated Into the Current Forecast.*
ACT = ACTUAL Completed Achieved this Month
B/L = Baseline Master Project Schedule
[Note: B/L reflects the re-baselined Contract Packaging Plan (Revision 3, Mar 30 '12) and the re-baselined Master Project Schedule (Revision 4, Mar 30 '12).]
Variance = Variance of (Baseline Master Project Schedule) Less *(Current Forecast)*
+Ahead/(Behind)/-0- versus the B/L Master Project Schedule

Note: Bid Ready Dates from FD Tracking sheet for Reference.

Schedule Basis: NTP to CE&I Contracts two (2) months prior to Bid Ready Date for constructibility review; Contract completion one-and-one-half (1-1/2) month after Substantial Completion (SC). (For station contracts, SC of the last station in the group.)

Baselined (as *reflected in the Master Project Schedule, Revision 4, March 30, 2012)*

Figure 18. Procurement: Project Management and Specialty Consultant Services Contracts

SEPTEMBER 2012 UPDATE

Procurement Tracking Report

Project Management and Specialty Consultant Services Contracts

CPP Contract #	Contract Name	Sched Ref*	Issue RFQ	SOQs Submitted	Select BQO/ Advise BFS	Receive SOW	Receive Price Proposal	Finalize Contract	Issue NTP	Contract Completion	Comments
MM-900	Program Management Support Consultant - 1 (PMSC-1) [InfraConsult LLC]	CF	Jul 15 '09	Sep 01 '09					Nov 19 '09	Jan 31 '13	
		Act	Jul 15 '09	Sep 01 '09					Nov 19 '09		
		B/L	Jul 15 '09	Sep 01 '09					Nov 19 '09	Feb 28 '12	
		Var	-0-	-0-		-0-	-0-	-0-	-0-	(338)	
MM-901	Program Management Support Consultant - 2 (PMSC-2) [InfraConsult LLC]	CF	Aug 03 '11	Sep 02 '09				Feb 28 '12	Mar 08 '12	Feb 28 '15	
		Act	Aug 03 '11	Sep 02 '09				Feb 29 '12	Mar 08 '12		
		B/L	Aug 03 '11	Sep 02 '09				Feb 23 '12	Feb 23 '12	Feb 28 '15	
		Var	-0-	-0-	-0-	-0-	-0-	(5)	(14)	-0-	
MM-905	General Engineering Consultant I (GEC-1) (EIS/Preliminary Engrg) [Parsons Brinckerhoff]	CF	Jun 01 '07	Aug 24 '07					Oct 25 '09	Jan 31 '13	
		Act	Jun 01 '07	Aug 24 '07					Oct 25 '09		
		B/L	Jun 01 '07	Aug 24 '07					Oct 25 '09	Mar 25 '12	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-	(312)	
MM-910	General Engineering Consultant II (GEC-2) (Final Design and Construction) [Parsons Brinckerhoff, Inc.]	CF	Sep 03 '09	Nov 15 '09				Jun 30 '11	Aug 02 '11	Aug 01 '14	
		Act	Sep 03 '09	Nov 15 '09				Jun 30 '11	Aug 02 '11		
		B/L	Sep 03 '09	Nov 15 '09				Jun 30 '11	Aug 02 '11	Aug 01 '14	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	
MM-935	Real Estate Consultant [Paragon Partners, Ltd.]	CF	Apr 01 '11				Sep 08 '11	Mar 14 '12	Mar 14 '12	Mar 13 '17	
		Act	Apr 01 '11				Sep 08 '11	Mar 14 '12	Mar 14 '12		
		B/L	Apr 01 '11				Sep 08 '11	Mar 15 '12	Mar 15 '12	Mar 13 '17	
		Var	-0-				-0-	+1	+1	-0-	
MM-940	Kako'o Consultant [Pacific Legacy, Inc.]	CF	May 20 '11	Jun 20 '11			Sep 09 '11	Mar 29 '12	Mar 29 '12	Feb 14 '17	
		Act	May 20 '11	Jun 20 '11			Sep 09 '11	Mar 29 '12	Mar 30 '12		
		B/L	May 20 '11				Sep 09 '11	Mar 15 '12	Mar 15 '12	Feb 14 '17	
		Var	-0-	-0-	-0-	-0-	-0-	(14)	(14)	-0-	
MM-950	Owner Controlled Insurance Program (OCIP) Consultant [Marsh USA, Inc.]	CF	Jan 31 '12				Mar 01 '12	May 10 '12	May 10 '12	May 09 '17	5-year Consultant Services contract to assist in procurement of insurance coverage and administer insurance and risk management services for the HRTP
		Act	Jan 31 '12				Mar 01 '12	May 10 '12	Jun 05 '12		
		B/L	Jan 31 '12				Mar 01 '12	May 19 '12	Apr 26 '12	Dec 01 '19	
		Var	-0-	-0-	-0-	-0-	-0-	+8	(38)	---	
MM-975	LEED Commissioning Services for the Maintenance and Storage Facility (MSF) [Enovity, Inc.]	CF						Oct 06 '10	Oct 07 '10	Jan 14 '16	
		Act						Oct 06 '10	Oct 07 '10		
		B/L						Oct 07 '10	Oct 07 '10	Jan 14 '16	
		Var						+1	-0-	-0-	

[Successful Contractor]

* Schedule Reference:
CF = Current Forecast
ACT = ACTUAL Completed Achieved this Month
B/L = Baseline Master Project Schedule
[Note: B/L reflects the re-baselined Contract Packaging Plan (Revision 3, Mar 30 '12) and the re-baselined Master Project Schedule (Revision 4, Mar 30 '12).]

Baselined (as *reflected in the Master Project Schedule, Revision 4, March 30, 2012)*

Figure 19. Procurement: HDOT Consultant Services and Other Contracts

SEPTEMBER 2012 UPDATE

Procurement Tracking Report

Hawaii Department of Transportation (HDOT) Consultant Services Contracts and Other Contracts

CPP Contract #	Contract Name	Sched Ref*	Issue RFQ	SOQs Submitted	Select BQO/ Advise BFS	Receive SOW	Receive Price Proposal	Finalize Contract	Issue NTP	Contract Completion	Comments
HDOT Agreements											
MM-915	HDOT Traffic Management Coordination Consultant *[ICX Transportation Group]*	CF	Aug 15 '11					Jun 01 '12	Jul 01 '12	Jul 01 '17	Scope of services is for the entire alignment. Contract length = 60 months.
		Act	Aug 15 '11					Jun 05 '12	Jun 12 '12		
		B/L	Mar 04 '11					Jun 01 '12	Jul 01 '12	Feb 15 '19	
		Var	(164)	-0-	-0-	-0-	-0-	(4)	+19	+594	
MM-920	HDOT Design Coordination Consultant - West Oahu/Farrington Highway Guideway Section *[AECOM Tech Svcs, Inc.]*	CF						Jun 07 '11	Jun 08 '11	Jun 15 '18	
		Act						Jun 07 '11	Jun 08 '11		
		B/L						Jun 07 '11	Jun 08 '11	Jun 15 '18	
		Var						-0-	-0-	-0-	
MM-921	HDOT Design Coordination Consultant - Kamehameha Highway Guideway Section *[AECOM Tech Svcs, Inc.]*	CF						Jun 01 '12	Jul 01 '12	Jul 15 '15	
		Act						Jun 05 '12	Jun 29 '12		
		B/L						Apr 01 '12	Jul 01 '12	Jul 15 '15	
		Var						(61)	(2)	-0-	
MM-922	HDOT Design Coordination Consultant - Airport Guideway Section *[SSFM International]*	CF						Jan 16 '14	Jan 30 '14	Jun 15 '18	
		Act						Jun 08 '12	Jun 12 '12		
		B/L						Jan 16 '14	Jan 30 '14	Jun 15 '18	
		Var						+567	+597	-0-	
MM-923	HDOT Design Coordination Consultant - City Center Guideway Section	CF	Jul 14 '14	Aug 28 '14	Oct 12 '14	Nov 18 '14	Dec 18 '14	Feb 16 '15	Mar 02 '15	Jun 15 '18	An option under MM-922.
		Act									
		B/L	Jul 14 '14	Aug 28 '14	Oct 12 '14	Nov 18 '14	Dec 18 '14	Feb 16 '15	Mar 02 '15	Jun 15 '18	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	
Other Agreements											
MM-945	On-Call Construction Contractor	CF	Mar 15 '13	Apr 14 '13	Apr 29 '13	May 29 '13	Jun 28 '13	Jul 28 '13	Aug 27 '13	Mar 03 '19	
		Act									
		B/L	Mar 15 '13	Apr 14 '13	Apr 29 '13	May 29 '13	Jun 28 '13	Jul 28 '13	Aug 27 '13	Mar 03 '19	
		Var	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	
MM-946	On-Call HazMat Contractor(s)	CF						Jun 15 '12	Sep 07 '12	Feb 15 '17	
		Act						Aug 23 '12	Aug 23 '12		
		B/L						Jun 15 '12	Jun 30 '12	Feb 15 '17	
		Var						-0-	(69)	-0-	

[Successful Contractor]

* Schedule Reference:
CF = *Current Forecast*
ACT = ACTUAL — Completed — Achieved this Month
B/L = Baseline Master Project Schedule
[Note: B/L reflects the re-baselined Contract Packaging Plan (Revision 3, Mar 30 '12) and the re-baselined Master Project Schedule (Revision 4, Mar 30 '12).]

Baselined (as *reflected in the Master Project Schedule, Revision 4, March 30, 2012*)

3.2 Design-Build (DB) Contract Status

Contract DB-120: West Oahu/Farrington Highway Guideway (WOFH)

DB Contractor: Kiewit Infrastructure West Company (KIWC)

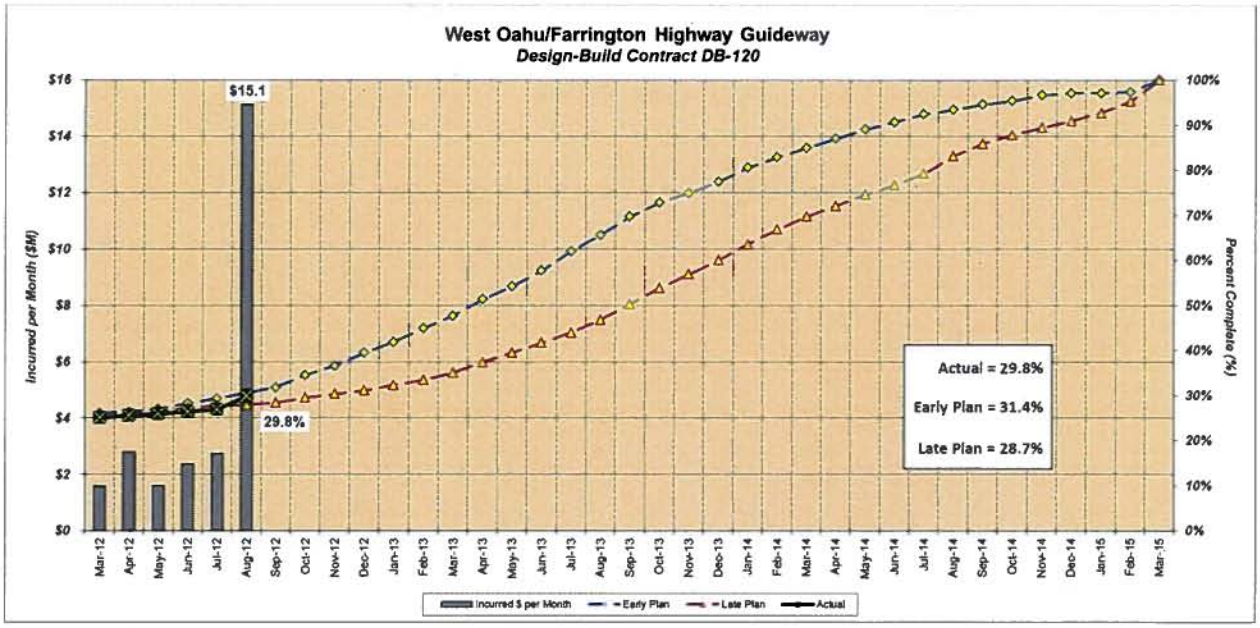
Committed:[1]	$515,451,270		Incurred to date:	$153,726,742	(29.8%)
Authorized:[2]	$271,885,336	(52.7%)	Substantial Completion:	November 2014	

[1] Commitment as of 8/31 = Contract value (not including contingency) + executed Change Orders.
[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 is 29.8%, versus an early plan of 31.4% and a late plan of 28.7%, as shown in Figure 20 below. The actual % complete incorporates the $12.8 M in Change Orders executed in August, which increased the committed total to $515.5 as of August 31 (from the $502.6 M as of July 27 reported last month); the early and late plan progress curves will be updated to reflect this increased committed amount next month. $15.12 M was incurred in August. Design is 95% complete.

Figure 20. West Oahu/Farrington Highway Guideway (WOFH) Construction



- **Activities this month**
  - HART returned comments on KIWC's August revised baseline schedule. This schedule was based on milestone dates assumed prior to the partial suspension of work on August 24 and will be further reviewed and revised accordingly. HART continues to evaluate the anticipated duration of the temporary partial suspension of work and is working with KIWC to mitigate impacts. Immediate actions taken by KIWC included releasing field personnel and reassigning staff to other projects.
  - A total of 388 contract submittals have been received (14 currently under review).
  - Geotechnical investigations are 98% complete. The remaining borings in the Banana Patch area continue to be on hold pending property access to TMK 9-6-004-006.
  - Tree relocations/removals remain at 69% complete. No tree removals were completed this month and any additional removals are affected by the partial suspension of work.

- Overall utility relocation is 28% complete. Relocation work on the Farrington Highway 30-inch water line near Old Fort Weaver Road is 55% complete. This activity is on hold due to the partial suspension of work.
- HART has received 226 Requests for Information (RFIs) from the contractor (1 open).
- As of the August 24 partial suspension of work, the following construction activities remain on hold:
  - Guideway columns
  - Utility relocation
  - Civil site work, including Waipahu High School improvements
  - Precast yard setup.

- **Look Ahead**
  - Continue to develop and implement mitigation strategies for the partial suspension of work.

Contract DB-200: Maintenance and Storage Facility (MSF)

DB Contractor: Kiewit/Kobayashi Joint Venture (KKJV)

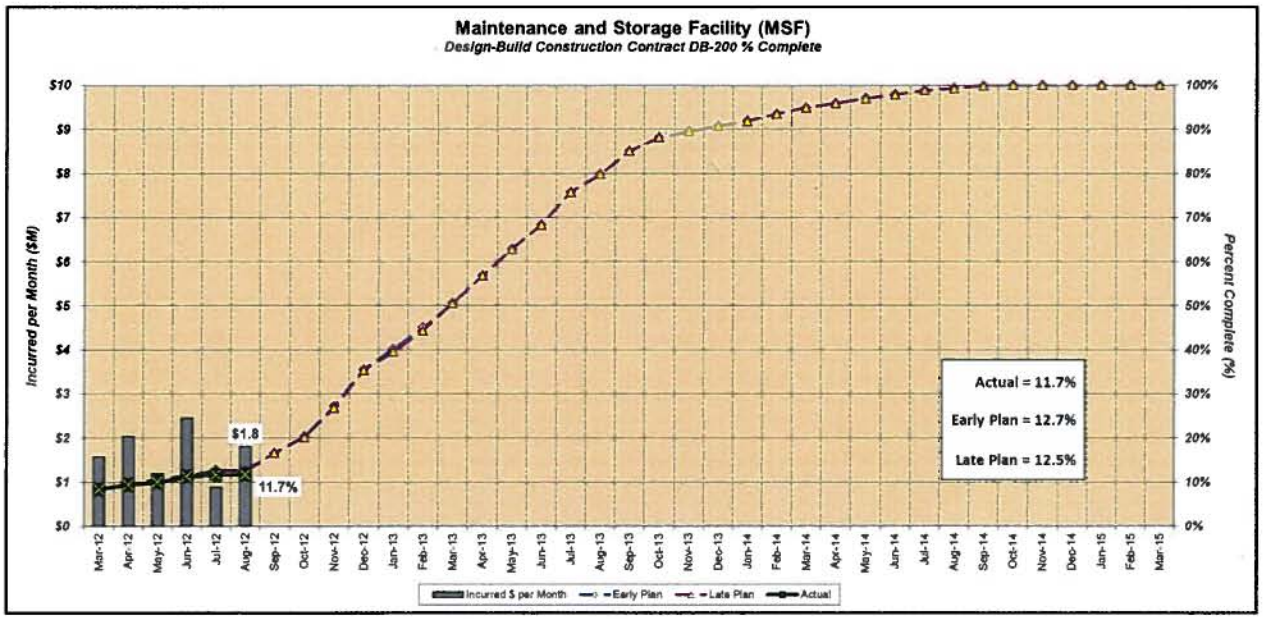
Committed:[1] $195,258,000 Incurred to date: $22,749,156 (11.7%)
Authorized:[2] $128,288,734 (65.7%) Substantial Completion: November 2014

[1] Commitment as of 8/31 = Contract value (not including contingency) + executed Change Orders.
[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 is 11.7% versus the early plan of 12.7% and the late plan of 12.5%, as shown in Figure 21 below. Construction activity, including site grading, remains on hold due to the partial suspension of work issued on August 24. HART continues to evaluate the anticipated duration of this suspension and is working with KIWC to mitigate impacts. Immediate actions taken by KIWC included releasing field personnel and reassigning staff to other projects. In August, $1.80 M was incurred. Design is 90% complete and is continuing through the partial suspension of construction.

Figure 21. Maintenance and Storage Facility (MSF) Construction



- **Activities this month**
  - HART has received 117 Requests for Information (RFIs) from the contractor (4 open).
- **Look Ahead**
  - Continue to develop and implement mitigation strategies for the partial suspension of work.
  - Resolve Core Systems interface items.

Contract DB-320: Kamehameha Highway Guideway (KHG)

DB Contractor: Kiewit Infrastructure West Company (KIWC)

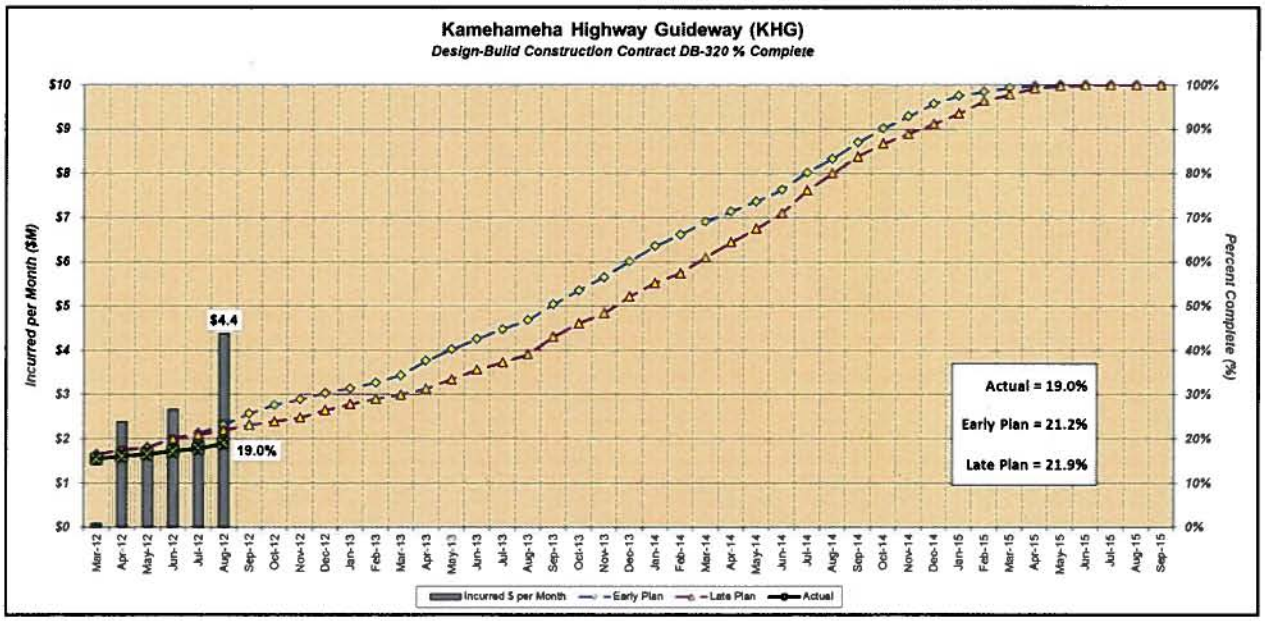
Committed:[1]	$372,150,000		Incurred to date:	$70,598,190	(19.0%)
Authorized:[2]	$162,166,081	(43.6%)	Substantial Completion:	June 2015	

[1] Commitment as of 8/31 = Contract value (not including contingency) + executed Change Orders.
[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 is 19.0%, versus an early plan of 21.2% and a late plan of 21.9%, as shown in Figure 22 below. Ground-disturbing activities, including construction of test shaft foundations and utility relocation, remain on hold due to the partial suspension of work issued on August 24. HART continues to evaluate the anticipated duration of this suspension and is working with KIWC to mitigate impacts. Immediate actions taken by KIWC included releasing field personnel and reassigning staff to other projects. In August, $4.38 M was incurred. Design is 87% complete.

Figure 22. Kamehameha Highway Guideway (KHG) Construction



- **Activities this month**
  - A total of 156 contract submittals have been received (11 under review).
  - HART has received 77 Requests for Information (RFIs) from the contractor (all closed).
  - KIWC suspended operations at load test shaft No. 13 in the Kamehameha Highway interchange area and will be vacating the site until the partial suspension of work is lifted.

- **Look Ahead**
  - Continue to develop and implement mitigation strategies for the partial suspension of work.

3.3 Design-Build-Operate-Maintain (DBOM) Contract Status

Contract DBOM-920: Core Systems Contract (CSC)

DBOM Contractor: Ansaldo Honolulu Joint Venture (AHJV)

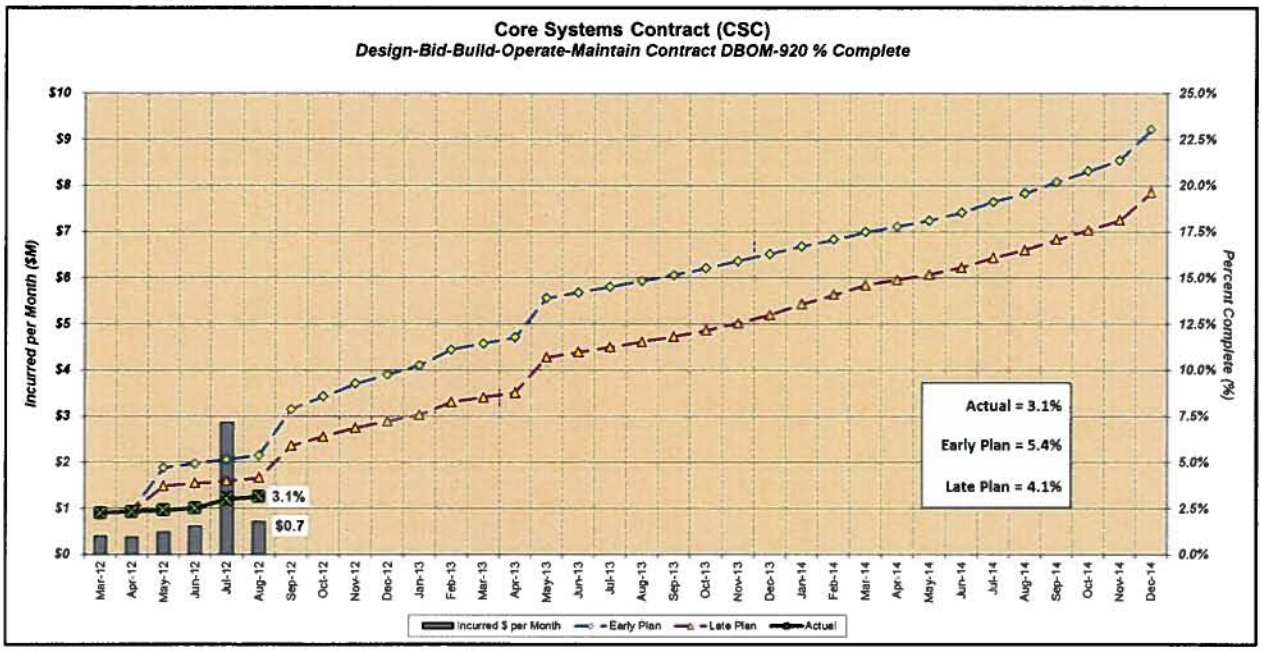
Committed:[1]	$573,782,793		Incurred to date:	$17,931,612	(3.1%)
Authorized:[2]	$ 97,918,391	(17.1%)	Start-up Completion:	April 2019	

[1] Commitment as of 8/31 = Contract value (excluding contingency or additional Operations & Maintenance budget of $823.6 M) + executed Change Orders. [2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 is 3.1%, versus the early plan of 5.4% and the late plan of 4.1%, as shown in Figure 23 below. In August, $0.71 M was incurred. Design is 25% complete.

Figure 23. Core Systems Contract (CSC)



- **Activities this month**
  - AHJV continues to participate in Interface meetings and to issue/respond to Requests for Interface Data (RFIDs) and to coordinate fixed-facility contractor interfaces.
  - Reviewing AHJV vehicle design, project management, quality and safety-security deliverables.
  - HART continues to hold regular weekly Core Systems progress meetings.

- **Look Ahead**
  - Finalize the Baseline Progress Schedule and Schedule of Milestones.
  - Revise and respond to HART comments on the Vehicle Definitive Design submittals.
  - Resolve interface issues with fixed facility contractors, particularly MSF design.
  - AHJV to submit ATC and SCADA design documents for HART review.
  - AHJV to incorporate HART comments on submitted project plans, including the Project Management (PMP) and Requirements Management (RMP) Plans.
  - Vehicle and other subsystem Definitive Designs.
  - Sub-contract remaining subsystems suppliers.
  - Continue Progress and interface meetings.

3.4 Manufacture-Install-Maintain (MIM) Contract Status

Contract MI-930: Elevators and Escalators (EE)

EE Contractor: TBD

Addendum No. 2, which outlines a revised procurement schedule, was posted on September 25 for the Request for Proposals (RFP) Part 1. Preparation of RFP Part 2 technical documents is in progress.

3.5 Design-Bid-Build (DBB) Contracts Status

Activities relate to HART, General Engineering Consultant (GEC) and Final Design (FD) Consultant activities for the subject contracts, since no DBB Construction contract has been awarded to date.

3.5.1 Station DBB Contracts Status (Executed and In Negotiation)

Contract DBB-170: West Oahu Station Group Construction (WOSG) Construction
Contractor FD-140: URS, Final Design Consultant (Engineer of Record)

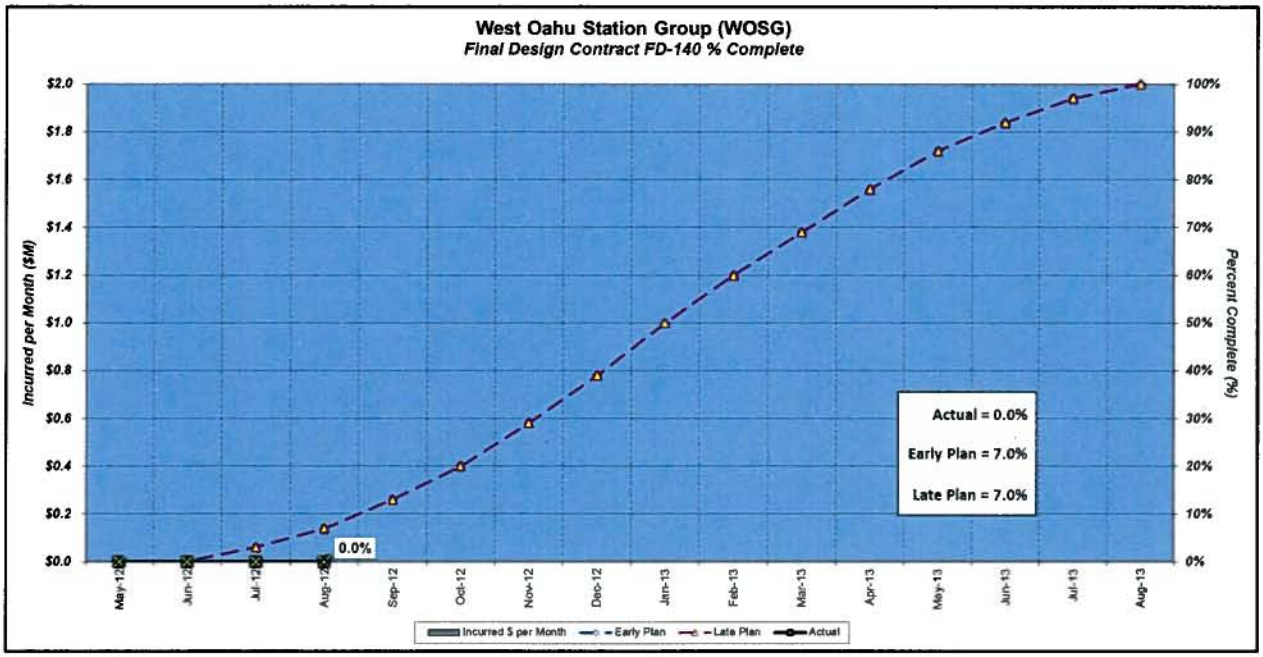
Committed:[1]	$7,789,000		Incurred to date:	$0	(0.0%)
Authorized:[2]	$2,391,177	(30.7%)	Construction Docs Bid-Ready:	August 2013	

[1] Total Commitment as of 8/31 = Contract value (not including contingency) with Design Allowance + executed Change Orders.
[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 is 0.0%, versus the early plan of 7.0% and the late plan of 7.0%, as shown in Figure 24 below. No contract cost has been incurred to date. Design is 25% complete.

Figure 24. West Oahu Station Group (WOSG) Final Design



- **Activities this month**
  - NTP 1b was issued on September 6, subject to approval of the Baseline Schedule and Schedule of Milestones.
  - URS has submitted the following plans for review:
    - Project Management Plan (PMP)
    - Site Safety and Security Plan (SSSP)
    - Quality Assurance Plan (QAP).
  - Continuing efforts to approve the Schedule of Milestones and Baseline Schedule.
  - Meeting to discuss Mitigation Monitoring Matrix with Environmental has been held to verify URS' understanding of their roles and responsibilities for the project.
  - URS participated in the kick-off meeting for interface and participated in their first meeting with WOFH Interface.
  - Meeting has been scheduled with URS and GEC to discuss CADD standards.

- Continuing to hold weekly Project Progress meetings. Design Development has started with the issuance of NTP 1b. Design discussions include station themes and interior pedestrian bridge layouts.
- URS has been informed of a potential change to include the provisions for the ability for a second elevator to be installed in the future.

- **Look Ahead**
  - Approve the Baseline Schedule, Schedule of Milestones, PMP, QAP, and SSSP.
  - Hold the first Interface meeting with Core Systems and continue transition into station interface.
  - Continue work on station design.
  - Develop the scope for the second elevator provisions to issue to URS.

Contract DBB-270: Farrington Highway Station Group (FHSG) Construction

Contractor FD-240: HDR Engineering, Inc., Final Design Consultant (Engineer of Record)

Committed:[1] $8,008,045 Incurred to date: $4,904,125 (61.2%)

Authorized:[2] $6,995,762 (87.4%) Construction Documents Bid-Ready: February 2013

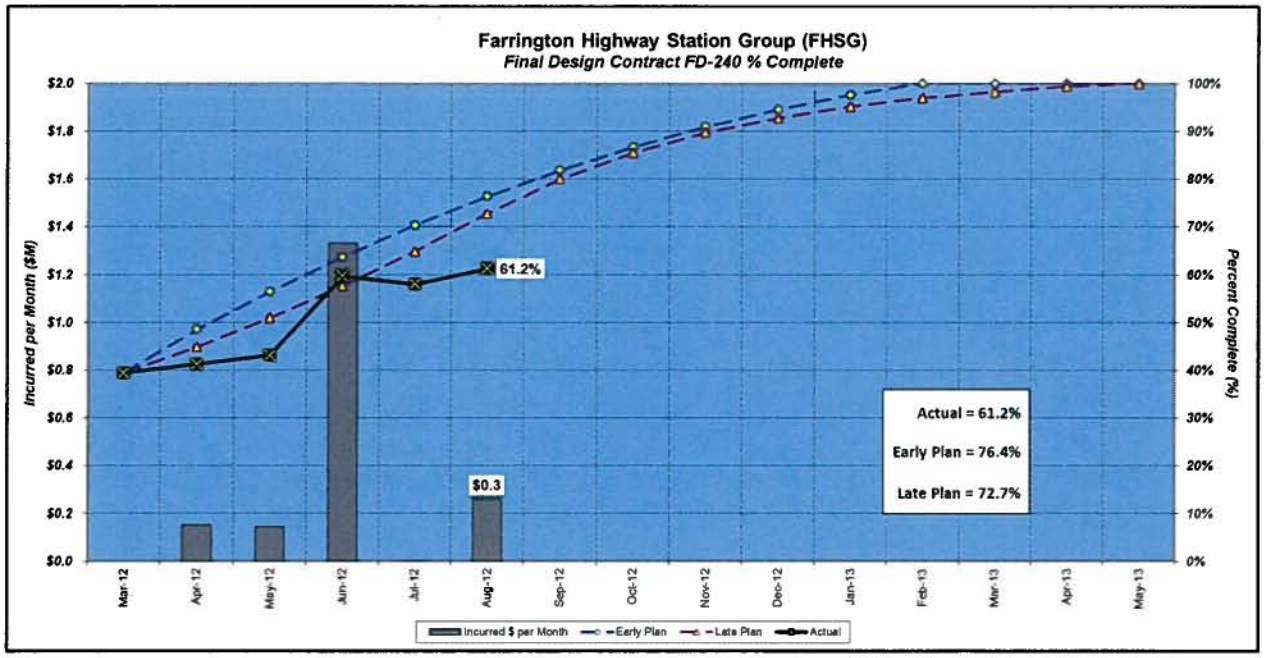
[1] Commitment as of 8/31 = Contract value (not including contingency) with Design Allowance + executed Change Orders.

[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 is 61.2%, versus the early plan of 76.4% and the late plan of 72.7%, as shown in Figure 25 below. In August, $0.26 M was incurred.

Figure 25. Farrington Highway Station Group (FHSG) Final Design



- **Activities this month**
  - Station On-Board Review for all disciplines was conducted during the week of September 3.
  - On-going Interface coordination with Core Systems and WOFH.
  - Continuing to address Designer Requests for Information (RFIs) and for Interface Data (RFIDs).
  - Continue regular, weekly design progress meetings.
  - The Designer submitted 50% of Interim Design Documents for HART review on September 21.
  - The Designer informed HART of a forthcoming Request for Change (RFC) to allow for a future second elevator at Leeward Community College.
  - HART met to discuss and prioritize RFIs and RFIDs.
  - Review of the third-party (Billings Jackson) design submittal.

- **Look Ahead**
  - Continue regular, weekly design progress meetings.
  - Determine third-party design to be incorporated into HDR documents.
  - Address outstanding RFCs.
  - Continue to address RFIs and RFIDs.
  - Provide the Designer with available information to allow start of the Interim Design Cost Estimate.

Contract DBB-370: Kamehameha Highway Station Group (KHSG) Construction
Contractor FD-340: TBD, Final Design Consultant (Engineer of Record)
Construction Documents Bid Ready: December 2013

Final Design contract negotiations are ongoing. Contract award and NTP 1a are scheduled for October.

Contract DBB-470: Airport Station Group (ASG) Construction
Contractor FD-440: TBD, Final Design Consultant (Engineer of Record)
Construction Documents Bid Ready: April 2014

Final Design contract negotiations are ongoing. Contract award and NTP 1a are scheduled for October.

3.5.2 Guideway and Utilities DBB Contracts (Executed and In Negotiation)

Contract DBB-505: Airport Section Utilities Construction
Contractor FD-430: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)
Construction Documents Bid-Ready: August 2013

Utilities relocation and engineering services for roadway improvements will be completed by AECOM prior to the start of Airport guideway construction (DBB-520). This contract repackages the previous Airport Guideway and Utilities Construction contract (DBB-460).

Contract DBB-510: City Center Section Utilities Construction
Contractor FD-530: AECOM Technical Services, Inc. Final Design Consultant (Engineer of Record)
Construction Documents Bid-Ready: October 2013

Utilities relocation and engineering services for roadway improvements will be completed by AECOM prior to the start of City Center guideway construction (DBB-520). This contract repackages the previous City Center Guideway and Utilities Construction contract (DBB-560).

Contract DBB-520: Airport and City Center Sections Guideway Construction
Contractor FD-430 and FD-530: AECOM Technical Services, Inc. Final Design Consultant (Engineer of Record)
Construction Docs Bid Ready August 2014

Airport and City Center sections guideway final design will be completed by AECOM and added to the bid package of the Airport and City Center Sections Guideway Construction contract (DBB-520). This contract repackages the previous Airport and City Center Guideway and Utilities Construction contracts (DBB-460 and DBB-560).

Contract FD-430 Airport Section Guideway and Utilities Final Design

Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)

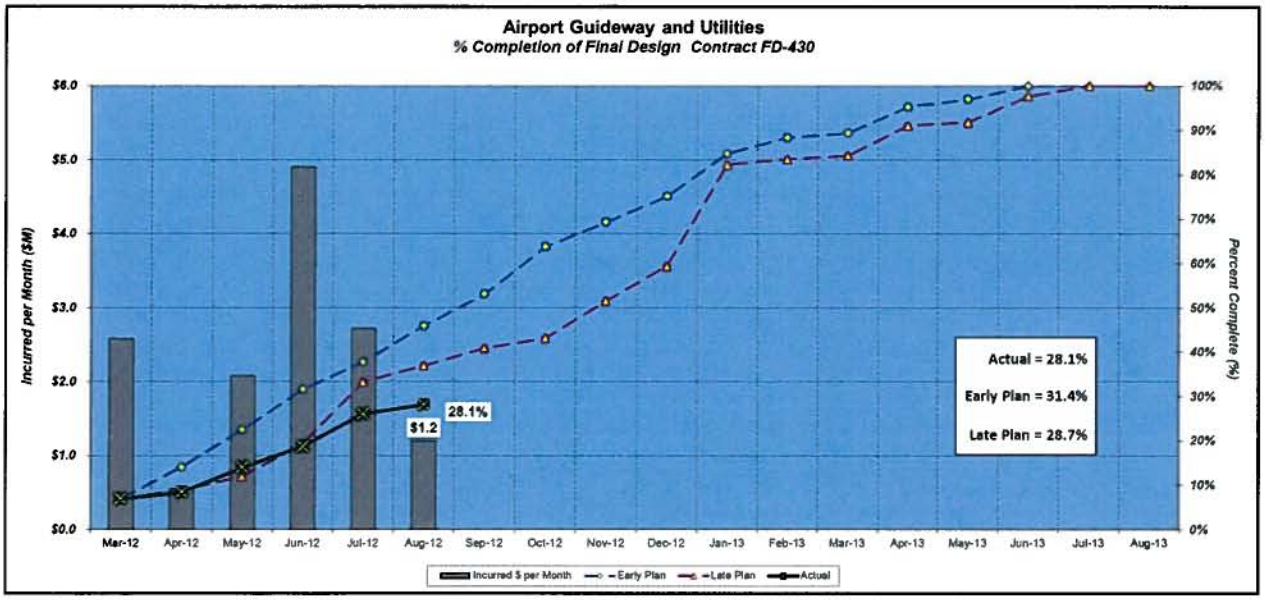
Committed:[1]	$38,840,960		Incurred to date:	$10,906,397	(28.1%)
Authorized:[2]	$31,066,791	(80.0%)	Construction Documents Bid-Ready:		
				Utilities	March 2013
				Guideway	April 2014

[1] Commitment as of 8/31 = Contract value (not including contingency) with Design Allowance + executed Change Orders.
[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Progress**

Actual progress as of August 31 was 28.1 %, versus the early plan of 45.9% and the late plan of 36.9%, as shown in Figure 26 below. No contract cost was incurred in August.

Figure 26. Airport Guideway and Utilities Final Design



- **Activities this month**
  - On July 23, HART accepted AECOM's Preliminary Engineering Update and issued the Notice to Proceed 2 (NTP 2) for Interim Design.
  - A meeting with HDOT Airport was held on August 16 to discuss the Airport Guideway alignment at entry and the Airport Station location. On August 20, a meeting with the HDOT Airport Deputy Director was held to discuss the Airport station location requested by Hawaiian Airlines. The alignment and station location are now under HDOT Airport review for final HDOT Airport approval.

- **Look Ahead**
  - Continue to coordinate stakeholder meetings with HDOT Airports and Highways, Hawaiian Airlines, and, as required, the U.S. Post Office, U.S. Navy and utility companies.
  - Interim Design development is in progress.
  - Develop AECOM schedule reflecting separate packaging of Airport Utilities and Guideway.

Contract FD-530: City Center Section Guideway and Utilities Final Design Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)				
Committed:[1]	$43,948,220	Incurred:	$0	(0.0%)
Authorized:[2]	$ 537,870 (1.2%)	Construction Documents Bid-Ready:		
			Utilities	August 2013
			Guideway	August 2014

[1] Commitment as of 8/31 = Contract value (not including contingency) with Design Allowance + executed Change Orders.
[2] Total Authorized for Expenditure (AFE) as of 8/31= NTP dollar values + executed Change Orders.

- **Contract Status**

This contract for engineering services during construction was awarded on July 30 and Notice to Proceed 1a (NTP 1a) was issued on July 31. NTP 1b to update Preliminary Engineering, planned to be issued on September 23, is still pending. This contract is to be combined into the Airport and City Center Guideway Construction contract (DBB-520).

- **Activities**
  - Preparing the Draft Schedule of Milestones.
  - Verified Preliminary Engineering (PE) alignment and column locations to confirm Archaeological Inventory Survey (AIS) trench locations.
  - Provided alternative designs to avoid property impacts associated with AIS.
  - Inspecting AIS trench locations for existing soil conditions.

- **Look Ahead**
  - The Final Design Consultant will submit a Draft Schedule of Milestones for HART review.

3.6 Construction Engineering and Inspection (CE&I) Services Contract Status

Contract MM-180 West Oahu and Farrington Highway Station Groups Construction Engineering and Inspection (CE&I) Services		
		Contractor: TBD
	Construction Documents Bid Ready	August 2013

- **Contract Status**

HART is reviewing the responses, due on August 31, to the Request for Qualifications.

3.7 Utility Agreements

- **Activities this month**
  - WOFH section:
    - Some of the Utility Construction Agreements (UCAs) executed with: AT&T, Hawaiian Electric Company (HECO), Oceanic Time Warner Cable (OTWC), Pacific LightNet, Inc. (PLNI) and The Gas Company (TGC) will require amendments to include Buy America requirements. Agreements with utility owners whose work is substantially complete will not be amended.
    - The UCA with Sandwich Isles Communication (SIC), while not required, is expected to be executed this fall.
    - The Hawaiian Telcom (HT) UCA has not yet been executed. HT was reviewing a version of the agreement that transferred construction scope to the DB contractor (as requested by HT per the HECO agreement). However, recent discussions have resulted in returning to HT performing the construction and a revised agreement template, which is currently under HT review. This agreement should be executed by year end.
  - KHG section:
    - All Engineering Service Agreements (ESAs) required for KHG have been executed, with: AT&T, Chevron, HT, OTWC, SIC, PLNI, Tesoro, TGC and tw telecom.
    - The UFRCRA with HECO for the KHG section has been executed.
    - The draft UCA, incorporating Buy America requirements, was transmitted to Tesoro for review.
  - Airport and City Center sections:
    - All ESAs for the Airport and City Center sections have been transmitted to the utility owners for review and comment. The following utility owners have reached agreement with HART on Terms and Conditions (T&C) and have agreements are in the execution queue: Chevron, OTWC and tw telecom.
    - The Bridging Agreement for the Airport section has been signed by HECO and is awaiting HART execution.
- **Look Ahead**
  - Transmit the remaining draft UCAs to utility owners in the KHG section. HART is now ready to proceed after some initial delays in completing drafts due to the recent addition of Buy America requirements to construction agreements.

See Figure 27 on the next page for the latest Utility Agreements Status Matrix.

Figure 27. Utility Agreements Status Matrix (by section)

Utility Agreements Status Matrix									
Utility Owner	Status	WOFH		KHG		Airport		City Center	
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA		UCA
AT&T	Executed	May 11, 2011	Dec 20, 2011	May 18, 2012	Completed draft under COR review		Final draft transmitted to utility		
	NTP	May 12, 2011	Dec 21, 2011						
Chevron	Executed	Dec 4, 2009		Nov 4, 2011	Preparing draft		Reached agreement on T&C; awaiting execution		
	NTP	Dec 22, 2009		Nov 15, 2011					
Hawaiian Telcom	Executed	May 20, 2010	Back to HT to self-performing scope; HT reviewing new draft	May 10, 2012	Preparing draft		Close to agreement on T&C; awaiting final comments from utility		
	NTP	June 14, 2010							
HECO	Executed	By Agreement with PB	Apr 20, 2012	**July 11, 2012**			Interim Bridging Agreement for Airport signed by utility; awaiting execution		
	NTP			July 12 2012					
Oceanic Time Warner	Executed	Dec 8, 2009	Dec 21, 2011	Jan 9, 2012	Completed draft under COR review		Agreement signed by utility; awaiting execution		
	NTP	Dec 22, 2009							
Pacific Lightnet	Executed	Apr 28, 2010	Mar 12, 2012	Feb 15, 2012	Completed draft under COR review		Final draft transmitted to utility		
	NTP	Apr 29, 2010	Mar 13, 2012	Feb 16, 2012					
Sandwich Isle Communications	Executed	May 20, 2010	Not needed (no scope on WOFH section)	Apr 20, 2012	Completed draft under COR review		Final draft transmitted to utility		
	NTP	Jun 8, 2010							
The Gas Company	Executed	Dec 18, 2009	Jun 30, 2011	Jun 1, 2012	Completed draft under COR review		Final draft transmitted to utility		
	NTP	Dec 22, 2009	Jul 12, 2011						
tw Telecom	Executed	Dec 2, 2009		Feb 14, 2012	Preparing draft		Agreement signed by utility; awaiting execution		
	NTP	Dec 22, 2009		Feb 16, 2012					
Tesoro	Executed			Feb 15, 2012	Sent draft to utility for review		Final draft transmitted to utility		
	NTP			Feb 16, 2012					

Legend: = Action this month; = Not applicable

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

3.8 Permits

- **Activities this month**
  - Significant permits issued to HART for WOFH:
    - In September, the State of Hawaii Department of Health (DOH) Indoor and Radiological Health Branch approved an extension to the Community Noise Permit for the City Center section to allow for continuation of the AIS work.
  - Significant activities:
    - In September, the HART Permit team prepared and submitted application materials for the extension of all NPDES general permits, which are scheduled to expire in October (each general permit is for 5 years). All submittals for permit renewal were completed in a timely fashion, and receipt of renewed permits is expected shortly.
- **Look Ahead**
  - Upcoming significant permit activity:
    - The DOH Clean Water Branch NPDES Form G-Dewatering Permit for the WOFH section is still needed to perform dewatering for permanent shaft activities.
    - The application for the NPDES general permit for City Center per-construction work is being prepared for submittal in October.
    - Clean Water Act (CWA) Section 401 Water Quality Certification and Section 404 Permit applications for work at the Waiawa Stream and Tributary are being prepared for submittal this fall.

3.9 Hawaii 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 MOT for HDOT.
  - The HDOT Design Coordination Consultant for WOFH (contract MM-920), AECOM Technical Services, Inc. (AECOM), continues to review design submittals for HDOT.
  - KHG section:
    - The KHG Master and JUO Agreements await resolution of HDOT comments regarding assignment to HART. HART is scheduling a meeting with HDOT to have attorneys from both sides discuss assignment issue.
    - AECOM, the HDOT Design Consultant for KHG (contract MM-921), continues to review KHG design submittals for HDOT.
  - SSFM, the HDOT Design Coordination Consultant for the Airport guideway (contract MM-922), is reviewing Airport design submittals for HDOT.
  - SSFM is the intended HDOT Design Coordination Consultant for the City Center guideway (contract MM-923). The Airport consultant contract allows HART the option to expand the scope of services to include City Center section.
- **Look Ahead**
  - Execution of the KHG Master and JUO Agreements.

3.10 Other Design Activities

- **Activities this month**
  - Continued supporting the WOFH, KHG, MSF, FHSG, WOSG, Airport and City Center Utility and Guideway contracts by reviewing submittals and responses to Requests for Information (RFIs) and Requests for Change (RFCs) and attending design meetings.
  - Interchange Access Modification Requests (IAMRs) to the State of Hawaii Department of Transportation (HDOT) for State highway access to/from planned rail stations and facilities:
  - Preparing the Final submittal of the IAMR for emergency access at MSF to HDOT
  - Completed draft traffic analysis report for Pearl Highlands.
  - Evaluating options for the proposed relocation of the Middle Street Transit Center station.
  - Further developing Waiawa Stream bank protection and Pearl Highlands Station, Transit Center and Parking Garage scour protection concepts and Best Management Practices (BMPs) for Clean Water Act (CWA) Section 401 Water Quality Certification and Section 404 Permit applications.
  - Completed draft Compendium of Design Criteria and Standard Specification revisions
  - Developed alternative engineering concepts to accelerate the AIS schedule.
  - Evaluating a separate design and construction canopy contract.
  - Finalizing directive drawings for the Elevator/Escalator procurement contract.
  - Continued standardizing design elements.
- **Look Ahead**
  - Continued support of the WOFH, FHSG, KHG and MSF contracts on submittal reviews and RFI-RFC responses.
  - Prepare and submit Standard and Directive drawings for HART review and comment.
  - Continue developing Pearl Highlands bank and scour protection concepts and complete 401 and 404 water quality permit exhibits.

3.11 Interface

- **Activities this month**
  - Requiring interfacing contractors to provide need/delivery dates for Interface Control Documents (ICDs) elevated to HART for review and direction.
  - Finalized risk assessment guidelines for ICDs and Requests for Interface Data (RFIDs) elevated to HART.
  - Continued developing tracking tool for HART Issues.
  - Interfacing with adjoining Contractors on KHSG, ASG and EE.
  - A total of 490 RFIDs have been submitted (269 closed).
  - A total of 29 Interface Issues have been elevated (12 new, 2 closed, -7 on hold and 8 OSR).
  - Reviewed and decided on 2 elevated issues:
    - Issue 31 – KHG Superstructure (on hold).
    - Issue 18 – MSF OSB Foundations and Structures (on hold).
  - Facilitated 24 interface meetings with various contractors.
- **Look Ahead**
  - Continue developing tracking tool for elevated Issues, including RFIDs, ICDs, and construction hold points.
  - Continue monitoring contractor RFIDs and ICDs pertaining to the Final Design Baseline (Revision 0).
  - Continue interfacing with adjoining contractors on KHSG, ASG and EE.
  - Transition interface responsibilities from HART to WOSG.

4 GROUP REPORTS

4.1 Safety and Security

- **Activities this month**
  - The HRTP had no construction safety and security issues in September. See Figure 28 below for a summary of issues to date.
  - Safety and Security assisted and inspected work sites for close of construction sites.
  - HART is working with the Honolulu Police Department (HPD) to review: the updated Threat and Vulnerability Assessment (TVA), construction security, respective areas of jurisdiction of the HPD, Sheriff and Transportation Security Administration (TSA) Airport and Surface divisions and drills.
  - HART finalized the Airport TVA with TSA Airport, TSA Federal and airline representatives.
  - HART Safety continued to conduct construction work site safety meetings and review safety requirements at construction sites.
  - HART Safety met with the Construction Safety Manager to review incidents, incident data and proactive plans and update all plans.
  - HART Safety continues to hold a weekly Core Systems Safety Meeting with Core Systems Contractor Ansaldo Honolulu Joint Venture (AHJV).
  - HART reviewed AHJV submittals for compliance and technical specifications.
- **Look Ahead**
  - Continue to review and edit the Sensitive Security Information Plan (SSIP) submittal.
  - Continue to hold safety meetings with contractors, particularly AHJV, committees and staff.
  - Finalize HART review of the updated TVA.
  - On-going discussion of security concerns with the TSA, HPD and Honolulu Fire Department (HFD) and of Emergency Plans with Emergency Responders and Emergency Management.

Figure 28. Construction Safety Monitoring - Safety and Security Issues

Period/Date	Contract	No. & Type of Event	Comments
2011	----	**1 in 2011**	
January		2 in January	
February		2 in February	
March	KHG	1 in March	
April	WOFH-KHG	5 in April	
May	WOFH-KHG	5 in May	
June	WOFH-KHG	1 in June	
July	WOFH	3 in July	
August	WOFH	3 in August	
September	----	0 in September	
2012	----	**23 to date in 2012**	

4.2 Quality Management

- **Activities this month**
  - Conducted weekly meeting with HART-GEC Quality Assurance (QA) staff to discuss overall Project QA/Quality Control (QC) issues with consultants, sub-consultants, contractors, sub-contractors and internal staff.
  - Continued training and mentoring HART employees to ensure project participants are familiar with the latest approved plans and procedures, updating the Training Matrix accordingly.
  - Updating and implementing the QA Audit Schedule for 2012.
  - Conducted Bi-weekly QA Task Force meetings with contractor and consultant QA teams to status of design activities, field work, NCRs and quality compliance and improvement.
  - GEC II (Parsons Brinckerhoff, Inc. [PB]):
    - Revising Quality Assurance Plan (QAP), Revision 1, including Quality Procedures.
    - Performed internal QA Surveillance of GEC Sub-Contractor Lea+Elliott on September 20 and provided QA support on Task 11 for the Core Systems contract (CSC).
    - To date, 1 NCR has been issued (closed).
  - West Oahu/Farrington Highway Guideway (WOFH) – Kiewit Infrastructure West Co. (KIWC):
    - Participated in the KIWC QA Audit of As Built Drawing process on September 7.
    - To date, 59 NCRs have been issued: 51 by KIWC (12 open), 8 by HART-GEC (all closed).
  - Maintenance and Storage Facility (MSF) – Kiewit Kobayashi Joint Venture (KKJV):
    - Performed Process Audit of Design activities on September 18.
    - Planning for the October 2 Environmental Audit.
    - To date, 1 NCR has been issued (closed).
  - Kamehameha Highway Guideway (KHG) – KIWC:
    - Planning for the October 5 Environmental Audit.
    - To date, 5 NCRs have been issued (all closed).
  - Core Systems Contract (CSC) – Ansaldo Honolulu Joint Venture (AHJV):
    - Performed QA Audits of Ansaldo Breda S.P.A. (AB) and Ansaldo STS (ASTS) in Italy on September 13-20 resulting in: 3 Positive Findings (AHJV, ASTS and AB); 1 Observation and 6 Suggestions (ASTS); and 1 Observation and 7 Suggestions (AB).
    - Reviewing Quality Plans of AHJV sub-contractors.
  - Farrington Highway Stations Group (FHSG) – HDR Engineering, Inc. (HDR):
    - Planning for the October 5 Environmental Audit.
    - To date, 4 NCRs have been issued (all closed).
  - Airport Guideway and Utilities (Airport)– AECOM Technical Services, Inc. (AECOM):
    - Planning for the October 5 Environmental Audit.
    - Witnessed AECOM QA Audit of sub-consultant, Wilson Okamoto Corp.
  - City Center Guideway and Utilities (City Center) – AECOM: Discussing AECOM QAP preparation in conjunction with the Airport Guideway contract.
  - West Oahu Stations Group (WOSG) – URS Corp. (URS): Reviewed and issued comments on QAP Revision B.

- **Look Ahead**
  - Continue mentoring and training personnel on revised approved Project Plans and procedures.
  - Continue QA/QC and Environmental Compliance Oversight of the WOFH, KHG, MSF, FHSG, Airport, City Center, WOSG and Core Systems contracts.
  - Implement and update the 2012 QA Audit Schedule.
  - Follow up on and close corrective and preventative actions on all NCRs and Observations.
  - Review Contractor/Consultant QAP and implementing procedure updates.

4.3 Right-of-Way

- **Activities this month**
  - Acquisitions: In order to facilitate the Archaeological Inventory Survey (AIS), Letters of Intent were sent to owners for 9 partial-take parcels and 2 full-take parcels within the City Center guideway section. See Figure 29 below for a summary of acquisitions to date.
  - Relocations
    - Two of the 3 tenants of TMK 9-8-0100-002 at the Pearl Ridge Station site have vacated.
    - 90-day notice was issued to a business at TMK 9-4-019-050 for the Waipahu Station.
    - One tenant vacated TMK 1-2-009-001 at the Kalihi Station site.
    - See Figure 30 on the next page for a summary of relocations to date.
  - Third-Party Agreement status to date is set out in Figure 31 on page 50.
- **Look Ahead**
  - West Oahu Farrington Highway Guideway (WOFH) section:
    - Complete relocation of the remaining 2 households in the Banana Patch.
    - Secure a consent to enter to initiate work on TMK 9-6-004-006 within the Banana Patch while negotiations continue on property acquisition.
  - Kamehameha Highway Guideway (KHG) section:
    - Continue negotiations for partial takes associated with TMK 9-7-023-008, TMK 9-7-022-008 and TMK 9-7-022-021.
    - Finalize negotiations on TMK 9-8-009-017 for the Pearl Ridge Station.
    - Relocate the one remaining business from TMK 9-8-010-002 by the end of October.
  - Airport and City Guideway sections:
    - Work with the 12 remaining property owners to secure consent to enter for the AIS.
    - Continue negotiations for TMK 1-5-007-021 and TMK 1-2-010-068 and partial takes associated with TMK 1-7-002-026 and TMK 1-2-009-017.

Figure 29. Right-of-Way Status

Section	Original # Parcels in FEIS	Current # Parcels Needed	Agreements In Process	Appraisals in Process	Offers	Acceptance	Ready for Construction
FULL ACQUISITION							
Total	**40**	**38**	**0**	**4**	**5**	**6**	**13**
WOFH	*14*	*14*	*0*	*0*	*1*	*2*	*11*
KHG	*5*	*3*	*0*	*0*	*1*	*1*	*1*
Airport	*5*	*5*	*0*	*4*	*0*	*0*	*0*
City Center	*16*	*16*	*0*	*0*	*3*	*3*	*1*
PARTIAL ACQUISITION							
Total	**163**	**133**	**8**	**0**	**6**	**0**	**7**
WOFH	*18*	*10*	*2*	*0*	*1*	*0*	*6*
KHG	*21*	*7*	*4*	*0*	*3*	*0*	*0*
Airport	*31*	*34*	*2*	*0*	*0*	*0*	*1*
City Center	*93*	*82*	*0*	*0*	*2*	*0*	*0*
EASEMENTS							
Total	**12**	**13**	**4**	**0**	**0**	**0**	**3**
WOFH	*6*	*6*	*3*	*0*	*0*	*0*	*3*
KHG	*0*	*1*	*1*	*0*	*0*	*0*	*0*
Airport	*1*	*1*	*0*	*0*	*0*	*0*	*0*
City Center	*5*	*5*	*0*	*0*	*0*	*0*	*0*
GRAND TOTAL	**215**	**184**	**12**	**4**	**11**	**6**	**23**

FEIS = Final Environmental Impact Statement, June 2010

Figure 30. Relocation Status

	Total Relocations	Initiated	90-day Notice	30-day Notice	Relocations Complete
Residential	**26**			**2**	**24**
WOFH	*25*			*2*	*23*
City Center	*1*				*1*
Business	**66**	**10**	**2**	**1**	**10**
WOFH	*5*	*1*	*1*	.	*3*
KHG	*4*		*0*	*1*	*3*
Airport	*7*	*6*			
City Center	*50*	*3*	*1*		*4*
Not-For-Profit	**1**				**1**
WOFH	*1*				*1*
TOTAL	**93**	**12**	**1**	**5**	**32**

Figure 31. Third-Party Agreement Status

Agreement	Completion	Target	Section	Status
University of Hawaii (UH) Master Agreement	Pending	Nov 2012	WOFH, KHG, City Center	Tentative agreement in place, on path to secure property access
Leeward Community College (LCC) Sub-agreement	Pending	Nov 2012	WOFH	Property appraisal complete
UH West Oahu (UHWO) Sub-agreement	Pending	Nov 2012	WOFH	Property appraisal complete
Department of Education Master Agreement and Consent to Construct	Feb 8, 2011		WOFH	Executed
DR Horton Agreement	Mar 7, 2012		WOFH	Executed
DHHL Master Agreement	Mar 10, 2010		WOFH, MSF	Executed
DHHL Consent to Construct	Dec 1, 2011		WOFH, MSF	Consent to construct in place until license agreement/property transfer
DHHL License or Property Transfer	Pending	Dec 2012	WOFH, MSF	DHHL reviewing license, discussions with City on property transfer
HDOT Master Agreement	Oct 31, 2011		WOFH	Executed
HDOT Joint Use & Occupancy (JU&O) Sub-agreement	Apr 5, 2012		WOFH	Executed
UH Urban Garden Sub-agreement	Pending	Nov 2012	KHG	Property appraisal complete
HDOT Master Agreement	Pending	Nov 2012	KHG	Received comments, resolving issues
HDOT JU&O Sub-agreement	Pending	Nov 2012	KHG	Pending KHG Master Agreement completion
Aloha Stadium / Department of Accounting & General Services (DAGS)	Pending	Nov 2012	KHG	Aloha Stadium Board to review and approve finalized agreement
U.S. Navy / General Services Administration (GSA)	Pending	N/A	Airport	Navy consents to enter until easements in place; Pearl Harbor Station fee taking progressing
U.S. Post Office Honolulu Processing Center	Pending	Jan 2013	Airport	Request initiated to secure easement for Post Office Property
Federal Aviation Administration (FAA) Master Agreement	Pending	Jul 2013	Airport	As design progresses, determination will be made if agreement is required
HDOT Master Agreement	Pending	Apr 2013	Airport	Pending
HDOT JU&O Sub-agreement	Pending	May 2013	Airport	Pending Master Agreement
HDOT Master Agreement	Pending	Jun 2013	City Center	Pending KHG Master Agreement
HDOT JU&O Sub-agreement	Pending	Jul 2014	City Center	Pending Master Agreement
Honolulu Community College (HCC) Sub-agreement	Pending	Oct 2014	City Center	Property appraisal completed
Federal Court House/GSA	Pending	Oct 2014	City Center	Reviewing draft; monthly meetings with parties.
HI Community Development Agreement (HCDA)	Pending	Oct 2014	City Center	Pending City Center guideway final design.
DAGS	Pending	Oct 2014	City Center	Pending guideway final design.

4.4 Planning and Environment

- **Activities This month**
  - Programmatic Agreement (PA) [by PA Stipulation number]
    - II. Traditional Cultural Properties (TCPs)
      - City Center TCP studies are underway and completion is expected in 2013.
    - III. Identification and Protection of Archaeological Sites and Burials-Archaeological Inventory Surveys (AIS) estimated status through September 30:
      - Phase 3 (Airport) AIS: 22 of 40 trenches have been completed.
      - Phase 4 (City Center) AIS: 96 of 232 trenches have been completed.
      - This work has been expedited as the result of the August 24 Hawaii Supreme Court decision that identified the need to complete all AIS work for the entire HRTP prior to starting construction.
    - V. Recordation and Documentation: Historic American Buildings Survey/ Historic American Engineering Record/ Historic American Landscape Survey (HABS/HAER/HALS) [including required photo recordation of adversely affected historic properties activities and submission to the National Park Service (NPS)]
      - Documentation for historic bridges in the WOFH and KHG sections has been completed and is either undergoing review with the National Park Service and/or awaiting submittal to the Library of Congress and Hawaii State Historic Preservation Division (SHPD). Stream bridges for which documentation has been completed are: Honouliuli, Waikele, Waiawa, Waimalu, Kalauao and Kalauao Springs.
      - Photo documentation for additional historic properties is in progress.
    - VI. National Register of Historic Places/ National Historic Landmark Nominations:
      - Preparation of National Register nomination forms for adversely affected historic properties is in progress.
    - IX. B. Historic Preservation Program:
      - The Historic Preservation Committee (HPC) met again on September 7.
  - Mitigation Monitoring Program (MMP)
    - Monthly and quarterly reporting on MMP Mitigation Measure IDs (MMIDs) continues. Internal July and August monthly reports have been completed in preparation for the next Quarterly Report (July-Sept) to be submitted to FTA in mid-October.
    - Meetings with The Outdoor Circle (TOC) resumed on September 12. Action items will be identified at each meeting.
    - HDOT has signed the Ko'oloa'ula (*Abutilon menziesii*) Memorandum of Agreement (MOA) between HART, HDOT and DLNR for HART's Certificate of Inclusion for the HDOT Abutilon Incidental Take License. It is currently at DLNR for signature. To date, no Ko'oloa'ula have been identified in the project footprint.
  - Planning Activities
    - The Coastal Zone Management (CZM) Consistency Assessment submitted to the State Office of Planning, CZM Program on July 5 is under discussion.
    - HART and DPP continue to conduct monthly meetings to discuss Transit-Oriented Development (TOD) around the future transit stations, with a meeting held on September 21.
    - As a stakeholder in the Hawaii Transportation Reform Demonstration Project - State Agency Transit Oriented Development, HART attended the first of 3 meetings in August and, with DPP, held a pre-meeting with the Office of Planning, Smart Growth America and Strategic Economics. These meetings provide an overview on the project and identify stakeholder

concerns and questions. The September meeting focused on TOD strategies. The final meeting is scheduled for October.

- Monthly HART Sustainability Committee Meetings continue as the team works to identify ways to improve the support of green features project-wide.

- **Look Ahead**
  - Expedited AIS work is in progress for both the Airport and City Center sections.
  - The City Center TCP study has begun and will extend into early 2013.
  - HABS/HAER/HALS documentation and National Register nomination documentation for adversely affected historic properties continues.

4.5 Risk Management

- **Activities this month**
  - The risk register update for August did not take into account the August 24 ruling which stopped construction. The update for September will include the reassessment of risks based on the AIS ruling.
  - The risk matrix in Figure 32 below is used to score and rank identified risks. Risks have been assessed on probability of occurrence and most likely cost and schedule impact, if occur. The rating is the average cost and schedule impact score multiplied by the likelihood score.
  - The top 10 risks in August are set out in Figure 33 on the next page.
  - As shown in Figure 34 on the next page, the August Top 10 Risks changed from those in July, due a new high risk, #163. Risk 101 was removed from the top 10.
  - 1 new project wide risk was added in August, as shown in Figure 35 on page 54. The other 4 new risks are those subdivided from the new Project Wide risk.
    - Risk 163: This requirement by the FTA will result in additional costs due to premiums and additional oversight for Buy America Compliance. There is the potential that some materials have already been purchased that may not conform to Buy America. HART has asked utility owners what the status is of Buy America to determine what the potential impact may be.
  - 2 risks were deleted from the Risk Register in August, as shown in Figure 36 on page 54.
  - Overall, in August, the total number of risks increased by 3 from 339 to 342 risks; 5 risks were added and 2 risks were deleted, as shown in Figure 37 on page 54.
  - HART continues to work with the Owner-Controlled Insurance Program (OCIP) Consultant, Marsh USA, Inc., to identify and evaluate the insurable risks for the project and the agency.

- **Look Ahead**
  - Monthly contract/discipline specific risk workshops.
  - Update Risk Mitigation Plans for top risks.
  - Finalization of the Secondary Risk Mitigation list for FFGA.

Figure 32. Risk Matrix

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

Figure 33. Top 10 Project Risks in August

Risk ID	SCC Code	Contract Package	Risk Description	Prob	Prob Rating	Cost Impact	Time Impact	August Risk Rating	July Risk Rating
60e	10.04	City Center Guideway	Given limited geotechnical information available at this time, additional costs may be incurred associated with final design through construction.	90%	5	5	3	20	20
157	90.00	Project Wide	Delay to issue LONP2a results in additional cost and schedule impacts with the casting yard.	90%	5	4	2	15	15
126	60.01	ROW WOFH	Acquisition of commercial property at Pearl Highlands Station and Guideway is difficult and may delay schedule and increase costs. (Banana Patch)	90%	5	3	3	15	15
147a	60.01	ROW	Late turnover of ROW to contractor may result in claims.	90%	5	4	2	15	15
58b	90.00	MSF	HART/CSC may require changes to baseline documents (including design criteria) resulting in additional costs and schedule impacts.	90%	5	4	2	15	15
11b	40.02	KHG	There may be insufficient Utility company resources available to meet the design, approvals and/or construction schedule. (Public Utilities - water, sewer, storm drain)	75%	4	4	3	14	14
39	90.00	Project Wide	Contractors may not achieve contract required delivery dates of design information and construction interfaces to others.	75%	4	5	2	14	14
163	40.02	Project Wide	FTA requirement that all utility companies conform to Buy America requirements may cause delays and additional costs.	75%	4	5	2	14	
56	40.02	Project Wide	BWS and/or HDOT may not grant waiver to leave in place existing utilities to be abandoned that are not impacted by new structures requiring partial or total removal.	75%	4	5	1	12	12
143	60.01	City Center Guideway	Inability to receive all required consents to enter to do archaeological investigation of interior buildings may cause delays to AIS.	75%	4	4	2	12	12

Figure 34. Risks Removed from the Top 10 in August

Risk ID	SCC Code	Contract Package	Risk Description	Prob	Prob Rating	Cost Impact	Time Impact	August Risk Rating	July Risk Rating
101	60.01	Airport Guideway	Slight change in alignment could cause changes in required ROW which has not been included in estimate, schedule or EIS. (Proposed alignment at Middle Street would require relocation of a radio tower which may be difficult due to numerous interfaces.)	75%	4	3	3	12	12

Figure 35. New Risks for August

Risk ID	SCC Code	Contract Package	Risk Description	Cal Prob	Prob Rating	Cost Impact	Time Impact	Risk Rating
163	40.02	Project Wide	FTA requirement that all utility companies conform to Buy America requirements may cause delays and additional costs.	75%	4	5	2	14
163a	40.02	WOFH	FTA requirement that all utility companies conform to Buy America requirements may cause delays and additional costs.	75%	4	4	2	12
163b	40.02	KHG	FTA requirement that all utility companies conform to Buy America requirements may cause delays and additional costs.	75%	4	4	2	12
163c	40.02	Airport	FTA requirement that all utility companies conform to Buy America requirements may cause delays and additional costs.	75%	4	4	0	8
163d	40.02	City Center	FTA requirement that all utility companies conform to Buy America requirements may cause delays and additional costs.	75%	4	4	0	8

Figure 36. Risks Deleted in August

Current Risk ID	SCC Code	Contract Package	Risk Description	August 2012 Comments	August Risk Rating	July Risk Rating
84	30.03	MSF	Reconfiguration of yard and building layout during design results in additional costs to contract.	Risk has been deleted. Additional cost due to reconfiguration has been covered under the contract change log.		4
142b	10.04	KHG	Pedestrian bridge clearance over HDOT ROW may need to be raised to meet HDOT minimum requirements (17.5') which would result in additional costs due to redesign of	Risk has been deleted. Structure was revised and issue is closed with no cost.		15

Figure 37. Risks by Contract Package

Contract Packages	July 2012 # of Risks		August 2012 Update				
			Total # of Risks		Newly Sub-Divided Risks*	New Risks	Deleted Risks
Project Wide	72	18	73	18*	0	1	0
West Oahu/Farrington Highway Guideway	50		51		1	0	0
Maintenance & Storage Facility Contract	22		21		0	0	1
Kamehameha Highway Guideway	40		40		1	0	1
Core Systems Contract	22		22		0	0	0
Right of Way Project Wide	9		9		0	0	0
Airport Guideway	52		53		1	0	0
City Center Guideway	56		57		1	0	0
Project Wide Stations	3		3		0	0	0
Farrington Highway Stations	2		2		0	0	0
West Oahu Stations	4		4		0	0	0
Kamehameha Highway Stations	3		3		0	0	0
Airport Stations	1		1		0	0	0
City Center Stations	3		3		0	0	0
Total	339	285	342	287*	4	1	2

*55 Project Wide risks were determined to be applicable to various contracts and have been sub-divided into those contracts and evaluated at the contract level. Total number of risks contained in the risk register is 342. There are a total of 287 risks when excluding the duplicated Project Wide risks.

4.6 Community Outreach

- **Activities this month**
  - HART's general project outreach included presentations for business groups, students, Native Hawaiian organizations and senior citizens. The *28th Annual Hawaii Seniors Fair: The Good Life Expo* (see photo below), one of the state's largest annual expo for senior citizens, was among the outreach events HART participated in.

Figure 38. HART Staff Provides Information to Seniors at a Recent Expo

  - HART's public involvement team launched another new website outreach tool. The addition of the *Did You Know* feature provides regularly update project facts and figures designed to educate and inform the public about the rail project.
  - To date, staff has participated in:
    - 1,334 presentations and events and
    - 698 neighborhood boards.
  - Accelerated Archaeological Inventory Survey (AIS) work in the Airport and City Center areas is continues with the public involvement team canvassing the areas and providing information on the survey work to the surrounding communities.

- **Look Ahead**
  - Business and Community meetings continue along the alignment to provide the public with up-to-date project information.
  - Key outreach events include: Oahu's Transportation Commission, Native Hawaiian Chamber of Commerce and Women in Transportation.

5 STAFFING

HART staffing activities in September are summarized in Figure 39 below. HART staffing projections are shown in Figure 40 below and Figure 41 on the next page. For organizational structure detail, see the latest HART Project Organization Chart in Appendix A on page 58.

Figure 39. Staffing Activities.

Title	Group	New/Existing HART position (City or PMSC)	Position Status	Start Month
Engineering and Construction				
Engineer VI	City Center	New (City)	Recruiting	
Architectural Historian	Planning	New (City)	Recruiting	
Traffic Engineer II	Facilities	Existing (PMSC)	PMSC (temp)	
Electrical Engineer III/IV*	Core Systems	New (City)	Interviewing	
Budget and Finance				
Budget Analyst	Budget and Finance	New (City)	Recruiting	
Risk Manager	Budget and Finance	New (City)	Recruiting	
Assistant Project Officer	Administration and Controls	New (City)	Interviewing	
Contract Change Specialist Supervisor	Configuration Management	New (City)	Recruiting/ Interviewing	
GIS Analyst III	Right-of-Way	New (City)	Interviewing	
Manager	Document Control	New (PMSC)	Recruiting	
Procurement and Specifications Specialist VI	Procurement and Contracts	Existing (City)	Filled	Sep
Procurement and Specifications Specialist I/II	Procurement and Contracts	Existing (City)	Recruiting	
Scheduler	Project Controls	Existing (City)	Recruiting	
Fiscal Analyst I	Project Controls	Existing (City)	Filled	Sep
Fiscal Analyst II	Project Controls	Existing (PMSC)	Offer made	Oct
Administration				
Safety Certification Manager	System Safety and Security	New (City)	Recruiting	
Safety Specialist	System Safety and Security	New (City)	Recruiting/ Interviewing	
Manager	Project Labor Agreement	New (City)	Recruiting	
Human Resources Specialist - Disadvantaged Business Enterprises (DBE)	Civil Rights	New (City)	Recruiting/ Interviewing	
Human Resources Specialist – Equal Employment Opportunity (EEO)	Civil Rights	New (City)	Recruiting/ Interviewing	

**Per qualifications.*

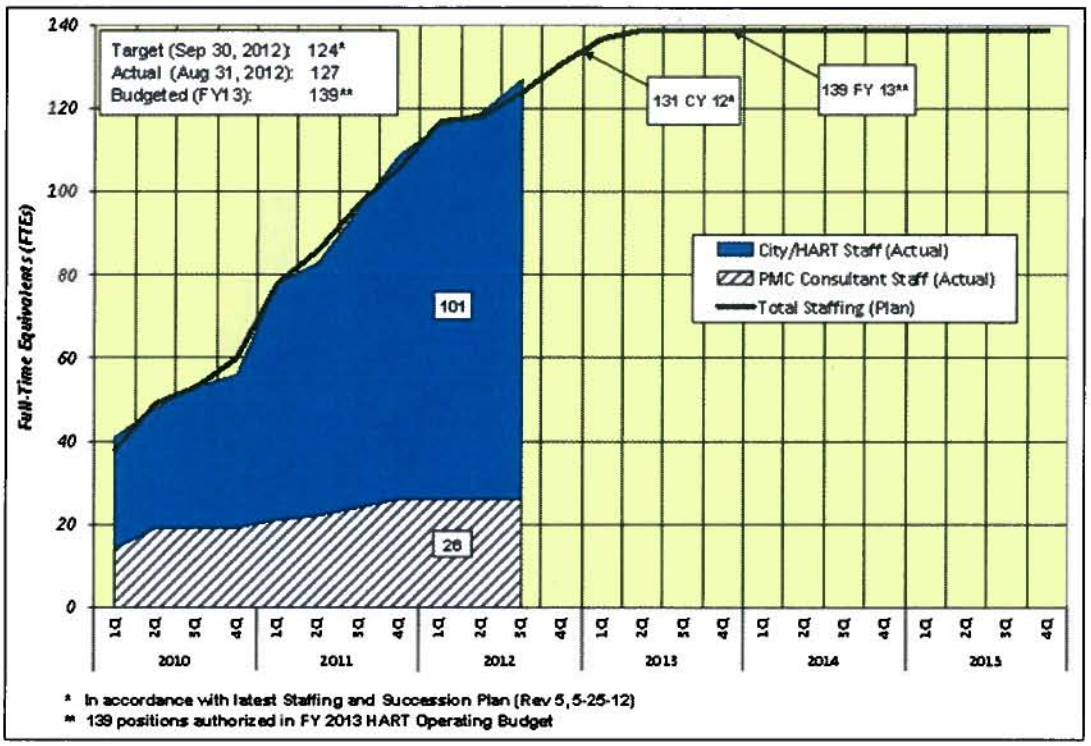
Figure 40. HART Staffing Projection in the Current Staffing Plan

[Also see the Staffing Chart in Figure 41 on the next page]	as of:	# Employees
Target*	Sep 30	124
Actual*	Sep 30	127
Full-Time Employees budgeted for FY13**	Jul 1	139

**Including PMSC staff **Excluding PMSC staff.*

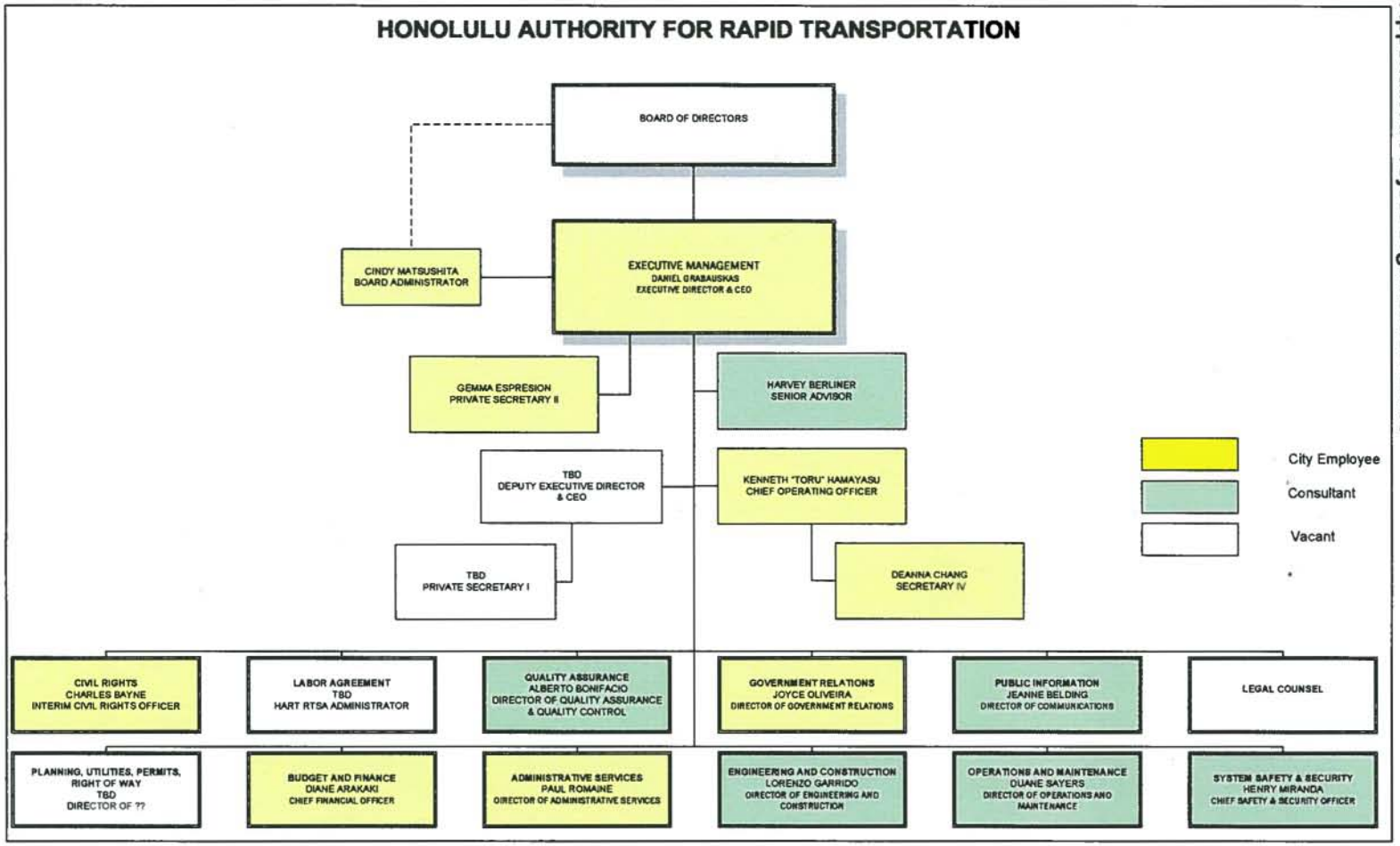
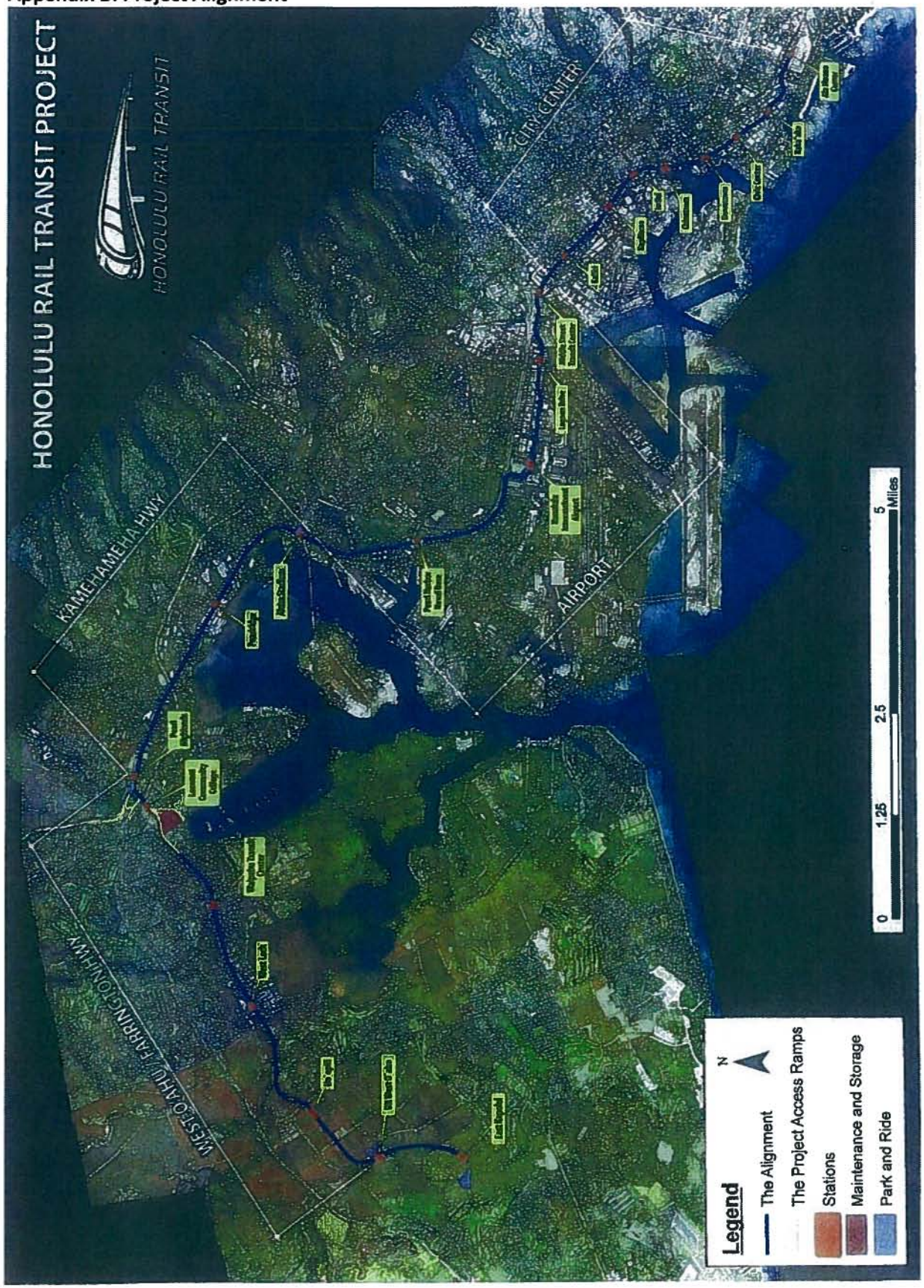
HART currently receives direct project support in centralized functions from the following City departments Honolulu Police Department (HPD), Department of Information Technology (DIT), Department of Budget and Fiscal Services (BFS), Department of Design and Construction (DDC), Corporation Counsel (COR)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

Figure 41. Project Staffing (Actual vs. Planned)



6 APPENDICES

Appendix A. Project Organization Chart



Appendix B. Project Alignment