

COST SCHEDULES

Attachment A

Attachment A - Price Proposal Schedules

Schedule 1

Summary of Portal/Mobile App Phase 1 DD&I, Phase 2 Optional Enhancements and and 1st 36 Months of M&O Price

Portal/Mobile DD&I and M&O Project Overall Price Total		FFY 2019/20	FFY 2020/21	FFY 2021/22	FFY 2022/23	FFY23/24	FFY24/25	Portal/Mobile Maximum Amount
	Portal/Mobile Phase 1: DD&I Deliverables Price	\$ 41,393	\$ 2,738,988	\$ 2,674,630	\$ -			\$ 5,455,011
	Mobile App Phase 1: DD&I Deliverables Price	\$ -	\$ 249,618	\$ 427,798	\$ -			\$ 677,416
	Portal/Mobile Phase 1: Hardware and Software Price	\$ 108,134	\$ 278,454	\$ 36,948	\$ -			\$ 423,536
	Portal/Mobile Phase 1: Change Request Summary	\$ 29,724	\$ -	\$ -	\$ 120,700			\$ 150,424
	Portal/Mobile Phase 1: DD&I Price Subtotal	\$ 179,251	\$ 3,267,060	\$ 3,139,376	\$ 120,700	\$ -	\$ -	\$ 6,706,387
								\$ -
	Portal/Mobile Phase 2: Optional Enhancements Price	\$ -	\$ -	\$ 1,842,816	\$ 1,634,500			\$ 3,477,316
	Portal/Mobile Phase 2: Hardware and Software Price				\$ -			\$ -
	Portal/Mobile Phase 2: Price Subtotal		\$ -	\$ 1,842,816	\$ 1,634,500	\$ -	\$ -	\$ 3,477,316
								\$ -
	Portal/Mobile Maintenance & Operations Price: 1st 36 Months	\$ -	\$ -	\$ 3,798,182	\$ 7,615,431	\$ 7,808,759	\$ 3,253,650	\$ 22,476,022
	Portal/Mobile Maintenance & Operations Price: Hardware and Software Support					\$ 221,601	\$ 221,601	\$ 443,202
	Portal/Mobile: M&O Price Subtotal		\$ -	\$ 3,798,182	\$ 7,615,431	\$ 8,030,360	\$ 3,475,251	\$ 22,919,224
								\$ -
	Portal/Mobile Maximum Price Phase 1 and Phase 2 and M&O	\$ 179,251	\$ 3,267,060	\$ 8,780,374	\$ 9,370,631	\$ 8,030,360	\$ 3,475,251	\$ 33,102,927
	Portal/Mobile Unallocated Funds							\$ 13,000,000
	Portal/Mobile County Purchases For Implementation Services							\$ 1,000,000
	Portal/Mobile Total Contract Value							\$ 47,102,927

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	Assumptions
1	The Consortium will provide independent security assessments as required by NIST 800-53.
2	Deloitte and the Consortium will agree to discuss and negotiate all final terms and conditions upon award selection, which include but are not limited to any materially substantive terms in the RFP and its related attachments, exhibits, and references.
3	The Consortium will provide qualified and knowledgeable resources to the project team with business and technical skills required for the project to be delivered within the mutually agreeable timeline.
4	The Consortium will reach timely agreement with the vendors to allow for the timely provision of the products identified in the Response and Deloitte Consulting will have all access and use rights as required to perform the services.
5	Deloitte's cost proposal is based on the scope of current CalSAWS programmatic, statutory requirements and naming conventions as defined in the RFP and effective as of the submission of this RFP response.
6	The prices reflected in AWS IaaS Resources workbook are as of 01/22/2020 and are subject to change based on periodic revisions published by AWS.
7	Based on direction provided in RFP section 1.5 Location of Work that the CONTRACTOR may perform CalSAWS Statewide Portal related work at CONTRACTOR offices outside of the Sacramento area with prior written approval of the CONSORTIUM Executive Director, we assumed that Deloitte will receive approval to perform work outside of the Sacramento area. Our rates and cost proposal provided are based on this assumption.
8	Third party products will work as specified by the third-party application vendor. Any significant issues with the functionality/quality of the software could affect Deloitte Consulting's estimate, timeline, and resources.
9	Deloitte Consulting's response is submitted in accordance with the data available and provided by the Consortium at the time of the RFP response submission and all corresponding performance, dates, and pricing included in our Response are estimates and shall be considered as such.
10	The Consortium shall obtain all consents necessary from third parties required for Deloitte Consulting to perform its obligations as described in our response. We assume that the third parties will provide the required information and access in a timely manner.
11	Any other existing and planned Consortium initiatives, which are not defined to be within the scope of the project, will be managed by the Consortium in a manner which does not adversely affect the overall project timeline.
12	The Consortium will limit sensitive information, such as PII, PHI, trade secrets and other information that it considers sensitive or highly confidential, it provides to Deloitte Consulting (or otherwise makes available to Deloitte Consulting) to only that which is reasonably necessary to allow Deloitte Consulting to provide the Services. Deloitte Consulting will provide the Consortium with a list of Deloitte Consulting personnel who are authorized to receive or have access to the Consortium sensitive information. Such list may be updated as needed. Any disclosure of sensitive information by the Consortium to Deloitte Consulting will utilize levels of information security and data encryption appropriate to maintain security of Client sensitive information being accessed by or transferred to Deloitte Consulting, and as required by applicable information protection laws.
13	The Consortium will develop a mutually agreeable set of data management controls specifying the processes, procedures and methods that will be used by the parties for the secure transfer, access, and exchange management of Client sensitive information pertinent to the Services, intended to safeguard the confidentiality and security of the sensitive information. The Consortium will train its relevant personnel on any such data management approach.
14	The project team will be able to engage directly with end users (residents, CBOs, FBOs, county workers) to conduct experience research and prototype and test designs.
15	Solution concepts will be prototyped in low-fidelity wireframes that will be tested with user populations prior to development.
16	ADA testing will only be performed for English language.
17	Comprehensive design documentation for existing CalSAWS web services that will be used by the Statewide Portal to deliver Attachment J requirements will be provided by the Consortium according to the project schedule.
18	The Consortium will provide test environments and test data for the CalSAWS system web services required to support delivery of the Statewide Portal.

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19	The Consortium will own production readiness, monitoring, and performance for all CalSAWS web services for which Deloitte is not owning design and development and which are required to support delivery of the Statewide Portal.
20	The Consortium will own design, modification, and testing of any eligibility rule changes required to support delivery of the Statewide Portal. Existing rules engine will be exposed via a web service.
21	Web services provided by the CalSAWS system will be stable at the start of the System testing phase.
22	Text messages sent by the Statewide Portal will not include business data in order to protect member privacy.
23	EBT Locator functionality in the Statewide Portal will be provided by an external link to https://www.ebt.ca.gov/locator/index.html#/locator.page or similar URL
24	Test environment web services will be available to Deloitte staff to access from any work location as approved by the processed described in assumption 8.
25	Deloitte project team will require working space for up to 20 resources at the North Project location for the duration of the project.
26	Spanish translations display will be tested on both desktop and responsive form factors. Other languages will be tested for formatting on desktop form factor only.
27	Phase 1 is based off the 14 month timeline mandated within the RFP. A total of 18 months are shown in Schedule 9 to account for the 90 day acceptance period, plus 30 days to remediate any issues remaining on day 90.

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	Portal/Mobile Phase 1: DD&I Deliverables Price	\$ 2,150,711	\$ 3,304,300	\$ -	\$ -		\$ 5,455,011
	Mobile App Phase 1: DD&I Deliverables Price	\$ 249,618	\$ 427,798	\$ -	\$ -		\$ 677,416
	Portal/Mobile Phase 1: Hardware and Software Price	\$ 201,936	\$ 221,601	\$ -	\$ -		\$ 423,536
	Portal/Mobile Phase 1: Change Request Summary	\$ 29,724	\$ -	\$ 120,700	\$ -		\$ 150,424
Portal/Mobile Phase 1: DD&I Price Subtotal		\$ 2,631,989	\$ 3,953,698	\$ 120,700			\$ 6,706,387
	Portal/Mobile Phase 2: Optional Enhancements Price	\$ -	\$ 1,738,091	\$ 1,739,225	\$ -		\$ 3,477,316
	Portal/Mobile Phase 2: Hardware and Software Price		\$ -	\$ -	\$ -		\$ -
Portal/Mobile Phase 2: Price Subtotal			\$ 1,738,091	\$ 1,739,225			\$ 3,477,316
	Portal/Mobile Maintenance & Operations Price: 1st 36 Months		\$ 3,124,702	\$ 7,740,528	\$ 7,740,528	\$ 3,870,264	\$ 22,476,022
	Portal/Mobile Maintenance & Operations Price: Hardware and Software Support		\$ -	\$ -	\$ 221,601	\$ 221,601	\$ 443,202
Portal/Mobile: M&O Price Subtotal			\$ 3,124,702	\$ 7,740,528	\$ 7,962,129	\$ 4,091,865	\$ 22,919,224
Portal/Mobile Maximum Price Phase 1 and Phase 2 and M&O		\$ 2,631,989	\$ 8,816,491	\$ 9,600,453	\$ 7,962,129	\$ 4,091,865	\$ 33,102,927
Portal/Mobile Unallocated Funds							\$ 13,000,000
Portal/Mobile County Purchases For Implementation Services							\$ 1,000,000
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17	Comprehensive design documentation for existing CalSAWS web services that will be used by the Statewide Portal to deliver Attachment J requirements will be provided by the Consortium according to the project schedule.
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Change Request ID	Date	Description	Cost	Target Due Date	Target Invoice Date	Notes
1	9/17/2020	ForgeRock Implementation	\$ (44,011.00)	N/A	01/21	Reduced GSD Price
2	9/17/2020	Qlik Reporting Implementation	\$ -	N/A	N/A	
3	9/17/2020	Third Party ADA Test	\$ 19,200.00	07/21	08/21	New Invoice
4	9/17/2020	Language Translation Services for the Customer Survey	\$ 10,524.00	09/20	10/20	New Invoice
5	1/12/2021	BenefitsCal Release Schedule Modifications	\$ 376,491.00	11/21	01/22	
6	1/12/2021	SmartBear (1 seat license)	\$ (1,198.00)	09/21	10/21	New invoice
		Enabling county selection during account creation (CSPM-50035) and improve customer experience via error handling improvements will be implemented in lieu of FN-				
7	3/24/2022	116	\$ 120,700.00	12/22	12/22	New Invoice
Total			\$ 481,706.00			

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Unallocated Funds Portal/Mobile App Project

ID	Date	Work Order Name	Description	Amount	Unallocated Funds Remaining Balance
01	07/14/21	Customer Compensation Payments for UCD	CDSS requested an additional one-time payment to the 33 Customers who participated within User Centered Design (UCD) Interviews during the Fall of 2020. Electronic gift card payments for User Centered Design (UCD) activities for the implementation of Release 1.0, and for the design of Releases 2.0 through 4.0.	\$ (7,728.11)	\$ 4,992,271.89
02	07/14/21	MC210/216 Pre-population and MC217 New Form	Per SIRFRA ID 1099, DHCS requests a change to BenefitsCal for each prepopulated form including program modification for the updated MC 216 prepopulated form, new MC 210 RV prepopulated form, and new MC 217 prepopulated form.	\$ (682,582.65)	\$ 4,309,689.24
03	07/14/21	GetCalFresh Integration	Modify the BenefitsCal system to provide access to the Code for America / Get Cal Fresh automation scripts, to enter applications from GCF within BenefitsCal for processing. Both applications as well as SAR7 forms will be supported.	\$ (422,066.59)	\$ 3,887,622.65
04	09/16/22	ARPA	Work Order 4: Student Flow, Marketing and CBO Referral URL and SAR7 Form Redesign	\$ (1,705,149.00)	\$ 2,182,473.65
05	09/01/22	ARPA-ROI	Work Order 5: Release of Information (ROI) Design	\$ (428,379.21)	\$ 1,754,094.44
06	06/05/22	GetCalFresh Integration - Additional Months	Three (3) additional months of monitoring activities.	\$ (50,001.00)	\$ 1,704,093.44
05	06/01/22	Change Order 5	Amounts added with Change Order 5, projected based on current run rates at \$4M per year	\$ 8,000,000.00	\$ 9,704,093.44
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
			Total Work Order	\$ 3,295,906.56	
			Unallocated Fund Remaining	\$ 9,704,093.44	

County Purchases for Implementation Services Portal/Mobile App Project

ID	Date	Work Order Name	Description	Amount	Unallocated Funds Remaining Balance
01	05/092022	Change Order 5	County Purchase funds established via change order 5	\$ -	\$ 1,000,000.00
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
				\$ -	
Total Work Order				\$ -	
County Purchase Fund Remaining				\$ 1,000,000.00	
Cumulative County Purchase funds established via change orders				\$ 1,000,000.00	

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Schedule 2

Portal/Mobile App Project Phase 1: DD&I Deliverables

#	WBS	Deliverable Name	Category	Review Period (Business Days)	Deliverable Due Date (Month/Year)	Target Invoice Date (Month/Year)	Total Deliverables Maximum Price	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total
1	1.1	Portal/Mobile App Work Plan Initial (plus monthly updates)	Project Management	5	08/20 09/20 10/20 11/20 12/20 01/21 02/21 03/21 04/21 05/21 06/21 07/21 08/21 09/21 10/21 11/21 12/21 01/22	09/20 10/20 11/20 12/20 01/21 02/21 03/21 04/21 05/21 06/21 07/21 08/21 09/21 10/21 11/21 12/21 01/22	\$ 366,790	\$ 203,772	\$ 163,018	
2	1.2	Portal/Mobile App Monthly Status Reports	Project Management	5	10/20 11/20 12/20	11/20 12/20 01/21	\$ 378,290	\$ 210,161	\$ 168,129	
3	3.1	User Centered Design (UCD) Plan	Application Development & Test	5	09/20	10/20	\$ 225,925	\$ 225,925		
4	2.1	Portal/Mobile App Requirements Traceability Matrix (plus updates at key milestones)	Application Development & Test	5	09/20 10/20 01/21 08/21 01/22	10/20 11/20 02/21 09/21 02/22	\$ 263,600	\$ 210,880	\$ 52,720	

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#	WBS	Deliverable Name	Category	Review Period (Business Days)	Deliverable Due Date (Month/Year)	Target Invoice Date (Month/Year)	Total Deliverables Maximum Price	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total
5	3.2	Portal General Systems Design	Application Development & Test	5	12/20	01/21	\$ 424,400	\$ 424,400		
6	4.1	Portal Technical Systems Design	Application Development & Test	5	02/21	03/21	\$ 609,426	\$ 609,426		
7	5.1	Portal/Mobile App Master Test Plan	Application Development & Test	5	02/21	03/21	\$ 208,410	\$ 208,410		
8	6.1	Portal Implementation Complete Report & Final Acceptance	Implementation	5	01/22	02/22	\$ 2,148,909		\$ 2,148,909	
9	4.2	Portal/Mobile App M&O Plan	M&O	5	07/21	08/21	\$ 452,770		\$ 452,770	
10	5.01	GSD Part II	Application Development & Test	5	02/21	03/21	\$ 38,265	\$ 38,265		
11	6.01	TSD Part II	Application Development & Test	5	02/21	03/21	\$ 19,472	\$ 19,472		
12	8.01	Implementation Complete Report - LA County	Implementation	5	01/22	02/22	\$ 295,916		\$ 295,916	
13	9.01	M&O Plan Updates - LA County	M&O	5	01/22	02/22	\$ 22,838		\$ 22,838	
		Total Portal/Mobile Project Deliverables Price / Maximum Price					\$ 5,455,011.00	\$ 2,150,711	\$ 3,304,300	\$ -

Assumptions	
1	Feedback on deliverables will be provided within the duration specified in the work plan and target dates are provided based on that assumption.
2	Deliverable 1. Workplan is inclusive of all workplan updates during the DD&I phase of the project and we expect to invoice \$20,377.22 for each month.
3	Deliverable 2. Monthly Status Reports is inclusive of all status reports during the DD&I phase of the project and we expect to invoice \$21,016.11 for each monthly status report.
4	Deliverable 3. Requirements Traceability Matrix is inclusive of the initial and updates during the DD&I phase of the project and we expect to invoice \$52,720.00 for each submission.
5	Formulas within Schedule 2 SFY Total Columns have been adjusted to not simply be equal to the Total Deliverables Maximum Price. The Total Deliverables Maximum Price has been adjusted to be a sum of the Total across all applicable SFYs.
6	Deloitte will not create a new System Security Plan for the proposed solution. But will provide CalSAWS with information about the proposed solution required to update the System Security Plan and help demonstrate compliance with security standards applicable to CalSAWS operations.
7	Our proposed solution shall not leverage FaceID to provide MFA capabilities as we are not proposing a native mobile application in Phase 1.
8	User credentials of system administrators and other personnel responsible for the build and maintenance of the AWS environments shall be maintained in an Active Directory (AD). AWS IAM will be integrated with the AD to provide required level of access to AWS resources.
9	County workers, CBO and FBO users will go through a user registration process to gain access to the proposed solution.
10	Existing external users from the three (3) application will be migrated to Amazon Cognito.
11	Duplicate accounts including disabled and terminated accounts will be migrated to the directory service of the proposed solution.
12	Migrated users will have to reset password on their first login attempt to access the proposed solution.
13	Approach to cleanse duplicate users to be discussed with CalSAWS during design phase.
14	User attributes to be migrated from legacy application will be determined based on discussion with CalSAWS during design phase.
15	Re-designing of existing roles shall be performed at the time of migration.

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#	WBS	Deliverable Name	Category	Review Period (Business Days)	Deliverable Due Date (Month/Year)	Target Invoice Date (Month/Year)	Total Deliverables Maximum Price	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total
16		Deloitte shall not implement any security information and event management (SIEM) tool.								
17		CalSAWS shall be responsible for auditing, ongoing threat detection monitoring and continuous monitoring of the environment.								
18		Deloitte shall implement an Endpoint Solution for all OS/hosts to support Antivirus and Malware detection and forward event logs to the CalSAWS SIEM to manage incident response.								
19		Our staffload and cost assumes that the Consortium will be able to change the following global visual aspects of the Portal during Phase 1 DDI: colors, State-specific graphics (i.e. graphics or icons including the State of California or CalSAWs branding). Other visual updates will follow the change order process.								

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Schedule 3

Portal/Mobile App Project Phase 2: Optional Enhancements Price

Req Category	Req #	Requirement Description	Implementation/Release Date (Month/Year)	Total DD&I Hours	Average Hourly Rate	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total
FN	110	The Contractor shall create an On-line Survey for the Applicant/Participant to complete. Completion of the survey is optional.	09/21 (Phase 1)			\$ -	\$ -	\$ -	\$ -
FN	111	The Contractor shall display Portal announcement based on the user input of zip code or use of location services.	09/21 (Phase 1)			\$ -	\$ -	\$ -	\$ -
FN	112	The Contractor shall develop Voice Response features in support of compliance with the American Disability Act (ADA).	09/21 (Phase 1)			\$ -	\$ -	\$ -	\$ -
FN	113	Discovery and requirements: the Contractor shall design, build, deploy, and maintain Portals including, but not limited to, the following: A web Portal designed for desktop / laptop computers. A web Portal designed for smart phones / tablets. An interactive voice Portal with a natural language interface in all required languages with skills linking them to major smartphone interfaces (e.g. Alexa, Siri, OK Google, Bixby, Facial Recognition, and others) as approved by the Consortium.	04/22	1,763	142		\$ 250,275.00		
FN	113	Implementation: The Contractor shall design, build, deploy, and maintain Portals including, but not limited to, the following: A web Portal designed for desktop / laptop computers. A	08/22	588	142	\$ -	\$ -	\$ 83,425.00	\$ -
FN	114	The Contractor shall design, build, deploy and maintain the CalSAWS Portal application, including help features in the following State approved threshold languages: Arabic, Farsi, Hindi, Khmer, Japanese, Mien, Punjabi, Thai, Ukrainian.	05/22	850	141	\$ -	\$ 119,850.00	\$ -	\$ -
FN	115	The Contractor shall design, build, deploy and maintain the CalSAWS mobile application, including Help features, in the following State approved threshold languages: Arabic, Farsi, Hindi, Khmer, Japanese, Mien, Punjabi, Thai, Ukrainian.	05/22	850	142	\$ -	\$ 120,700.00	\$ -	\$ -
FN	117	Discovery and requirements: the Contractor shall build, deploy and maintain web version of the CalWORKs 2.0 tools for clients to complete, submit, and update (displaying the last version's information for update).	05/22	1,200	148		\$ 177,500.00		
FN	117	Implementation: The Contractor shall build, deploy and maintain web version of the CalWORKs 2.0 tools for clients to complete, submit, and update (displaying the last version's information for update).	02/23	2,500	142	\$ -	\$ -	\$ 177,500.00	\$ -
FN	118	The Contractor shall build, deploy and maintain the ability to allow counties to export# or download CalWORKs 2.0 raw data.	02/23	700	142	\$ -		\$ 99,400.00	\$ -
FN	119	The Contractor shall ensure that the Portal allows consumer users and application assisters to request CalWORKs related supportive services through the Portal, for example transportation, child care, books for students, etc.	02/23	1,100	142	\$ -		\$ 156,200.00	\$ -
FN	120	The Contractor shall build the ability of a WTW-participant to request reimbursement.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	121	The Contractor shall build the ability of a WTW participant to request child care and input the hours of participation.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	122	The Contractor shall build the ability to complete the WTW 10 online to request a third party assessment.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	123	The Contractor shall build the ability to allow HA clients to submit a housing search form.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	124	The Contractor shall build the ability to allow WTW participants to submit a job search.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	125	The Contractor shall build the ability to request temporary Homeless Assistance, including a voucher request.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	126	The Contractor shall build the ability to request permanent Homeless Assistance, including the method of the issuance of such payment.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	127	The Contractor shall build the ability to allow clients to submit a Sworn Statement of evidence in accordance with program policy, excluding pregnancy verification and alien status.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	128	The Contractor shall build the ability to allow WTW participants to request exemptions from WTW.	02/23	300	142	\$ -		\$ 42,600.00	\$ -
FN	129	Discovery and requirements: The Contractor shall build the ability to allow clients to request recurring and nonrecurring special needs.	04/22	144	148		\$ 21,300.00		
FN	129	Implementation: The Contractor shall build the ability to allow clients to request recurring and nonrecurring special needs.	08/22	150	142	\$ -		\$ 21,300.00	\$ -
FN	130	The Contractor shall build the ability to allow CalFresh clients to request program exemptions.	02/23	500	142	\$ -		\$ 71,000.00	\$ -
FN	131	The Contractor shall build the ability of a sanctioned WTW participant to request that the sanction be cured and request supportive services to cure the sanction.	02/23	500	142	\$ -		\$ 71,000.00	\$ -
FN	132	The Contractor shall build the ability to display and capture the signature in support of an agreement to cure a sanction.	02/23	350	142	\$ -		\$ 49,700.00	\$ -
FN	133	The Contractor shall build the ability to complete and submit the "Yslas" WTW 8 form for students.	02/23	350	142	\$ -		\$ 49,700.00	\$ -
FN	134	The Contractor shall build the ability to submit WTW Forms 26 and 27.	02/23	350	142	\$ -		\$ 49,700.00	\$ -
FN	135	The Contractor shall build the ability to view and modify time clocks.	02/23	500	142	\$ -	\$ -	\$ 71,000.00	\$ -
FN	136	Discovery and requirements: The Contractor shall build the ability of CalFresh clients to request medical expenses.	04/22	288	148		\$ 42,600.00		
FN	136	Implementation: The Contractor shall build the ability of CalFresh clients to request medical expenses.	08/22	300	142	\$ -	\$ -	\$ 42,600.00	\$ -
FN	137	The Contractor shall notify clients of required reporting based on household eligibility, such as "IRT Reminder" or "ABAWD Hours Reminder". Should be customized to the household and populated near the top of the home page after logging in.	09/21 (Phase 1)			\$ -	\$ -	\$ -	\$ -
FN	138	The Contractor shall develop, deploy and maintain a self-service data analytics and reporting tool that supports configurability of capture and reporting by state and county staff.	04/22	700	142	\$ -	\$ 99,400.00	\$ -	\$ -
FN	139	Discovery and requirements: the Contractor will create a dynamic question section, triggered by those who appear to meet the definition of an ABAWD (per policy), that allows the consumer user to check off any of the possible reasons they may be eligible for an exemption. These responses are to be transmitted to the worker, along with the application and any other information, for review and determination of the case.	05/22	600	148	\$ -	\$ 88,750.00	\$ -	\$ -
FN	139	Implementation: The Contractor will create a dynamic question section, triggered by those who appear to meet the definition of an ABAWD (per policy), that allows the consumer user to check off any of the possible reasons they may be eligible for an exemption. These responses are to be transmitted to the worker, along with the application and any other information, for review and determination of the case.	02/23	625	142			\$ 88,750.00	

COST SCHEDULES

Attachment A

Req Category	Req #	Requirement Description	Implementation/Release Date (Month/Year)	Total DD&I Hours	Average Hourly Rate	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total
FN	140	The Contractor shall conduct an annual data element audit and normalization function to ensure consistency by consolidating redundant multiple data elements for the same functional description.	09/21 (Phase 1)	-		\$ -	\$ -	\$ -	\$ -
FN	141	The Contractor shall design and build portal systems such that data elements determined to be key to the assessment of effectiveness may be identified and made accessible to users during the period of system stabilization and during the period of operations.	09/21 (Phase 1)	-		\$ -	\$ -	\$ -	\$ -
FN	142	The Contractor shall design, build, deploy, and maintain a core set of management reports for the use of program administrators. Contractor shall provide such reports for review and refinement by local subject matter experts in multiple counties to ensure the reports are accurate and user-friendly. Such review and refinement shall take place during the design period, system stabilization period, and maintenance period.	09/21 (Phase 1)	-		\$ -	\$ -	\$ -	\$ -
FN	143	The Contractor shall design, build, maintain, and deploy API's that allow for regular data extracts to be retrievable in easily-usable formats (e.g. Excel, Access, SQL tables) that allow for the meaningful analysis of essential Portal functions. Such Portal functions shall include but not be limited by application submittal rates and outcomes by submitter demographics, by application assister, by day of week, by time of day, by type of device(s) used.	09/21 (Phase 1)	1,400	142	\$ -	\$ 198,800.00	\$ -	\$ -
FN	144	The Contractor shall design, build, deploy, and maintain a regularly updated reporting database that allows for ad hoc exploration of relevant variables.	05/22	1,400	142	\$ -	\$ 198,800.00	\$ -	\$ -
FN	145	The Contractor shall conduct a periodic, no less than annual, process to review and improve standard data extracts and management reports and consult with county and state stakeholders to ensure they continue to meet key management and evaluation objectives.	09/21 (Phase 1)	673	142	\$ -	\$ 95,566.00	\$ -	\$ -
FN	146	The Contractor shall design, build, deploy and maintain the ability for GROW (General Relief Opportunities for Work) collaborators/external users to request an account and reset/change password.	07/22	1,000	142	\$ -	\$ 72,500.00	\$ 72,500.00	\$ -
FN	147	Discovery and requirements: the Contractor shall design, build, deploy and maintain the ability for potential GROW participants, without a Portal account, to search for services or job orders documented by name, type, category, distance, etc. These users can see basic information like name, address, service, phone number, web site, distance, etc.	05/22	600	148		\$ 88,750.00		
FN	147	Implementation: The Contractor shall design, build, deploy and maintain the ability for potential GROW participants, without a Portal account, to search for services or job orders documented by name, type, category, distance, etc. These users can see basic information like name, address, service, phone number, web site, distance, etc.	02/23	625	142	\$ -	\$ -	\$ 88,750.00	\$ -
FN	148	Discovery and requirements implementation: the Contractor shall design, build, deploy and maintain the ability for GROW for collaborators/external users to maintain basic resource databank information via the Portal	05/22	1,103	148		\$ 163,300.00		
FN	148	Implementation: The Contractor shall design, build, deploy and maintain the ability for GROW for collaborators/external users to maintain basic resource databank information via the Portal such as: a) View, add or edit resource contact information (address, contact person name and phone/fax number, hours of operation and internet information) b) Update services provided (address, whether or not service is accessible by public transportation, phone number, hours of operation and contact person) c) Update activities provided d) Update participant's attendance and performance in an activity (this will include adding or removing a participant) e) View, add or edit job orders for employers f) View, add or edit child care wait list resources g) Ability to generate report (attendance list for the activity).	02/23	1,150	142	\$ -	\$ -	\$ 163,300.00	\$ -
Total Portal/Mobile App Project Phase 2 Optional Enhancements Price / Maximum Price				25,558		\$ -	\$ 1,738,091	\$ 1,739,225	\$ -

Assumptions	
1	Prices provided for Phase 2 are based on grouping of enhancements into 2 releases and over a 6 month timeline, other than those delivered with Phase 1 that do not have an associated cost. Deviation from estimated release grouping or timeline for Phase 2 enhancements may impact cost.
2	Total DD&I Hours and Average Hourly Rate are not provided for Phase 2 enhancements delivered with Phase 1 as the associated hours and rates are included within the Phase 1 Schedules.
3	FN 115 will be implemented as part of FN114 given that a separate mobile app will not be developed and implemented.
4	All WTW DD&I hours (FN 120 through FN 132) will be tracked within the DDI hours for developing the CalWORKs related supportive services (FN 119).
5	CalSAWS can contract to begin Phase 2 optional enhancement related activities work prior to approving the Phase 1 Final Acceptance report if the vendor's Phase 1 work is meeting expectations.
6	Estimates are based on our response to the requirement description provided in the RFP and are subject to revision based on additional information or changes.
7	FN 113 - The scope assumed for the Interactive Voice Portal was for a single service (Google) and up to 3 intents (i.e., intent of the request). Only languages supported by Google would be in scope.
8	FN133 - The efforts for building the "Yslas" WTW 8 form for students is based on the assumption it would need to consume one service and generate one PDF.
9	FN 135 - Modification of time clocks will be done workers using CalSAWS. Clients will be able to view clock and who to contact with questions.

COST SCHEDULES

Attachment A

Req Category	Req #	Requirement Description	Implementation/ Release Date (Month/Year)	Total DD&I Hours	Average Hourly Rate	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total
10		FN 137 - The CalSAWS system will provide the client reporting/alert data to the Portal/Mobile application that will be used display to reminders to clients.							
11		FN139 - Simplified eligibility rules will be used to determine if a customer can be potentially ABAWD as full TANF eligibility rules are in CalSAWS.							
12		FN148 - Effort is estimated based on the assumption that the existing databank can be leveraged to meet this requirement.							
13		FN146 - The ability to support account creation will be handled via external support request pages that will need to be processed by the case workers.							
14		FN147 - Users will enter a zip code or address and it would search for services by proximity from that address. The application can also grab the user's location from browser/mobile device using the standard APIs and search against the database that built via requirement FN148.							
15		As per Attachment B, Phase 3 begins after Phase 2 if Phase 2 is opted. Therefore, if the Consortium elects to proceed with Phase 2, M&O during the six months of Phase 2 will need to be contracted separately from Phase 3.							
16		If the Consortium elects to proceed with Phase 2, the Consortium will notify Deloitte at least 30 days prior to the start of Phase 2.							

COST SCHEDULES

Attachment A

Schedule 2

Mobile App Project Phase 1: DD&I Deliverables

#	WBS	Deliverable Name	Category	Review Period (Business Days)	Deliverable Due Date (Month/Year)	Target Invoice Date (Month/Year)	Total Deliverables Maximum Price	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total
10	3.3	Mobile App General and Technical Systems Design	Application Development & Test	5	02/21	03/21	\$ 249,618	\$ 249,618		
11	6.2	Mobile App Implementation Complete Report & Final Acceptance	Implementation	5	01/22	02/22	\$ 427,798		\$ 427,798	
		Total Mobile App Project Deliverables Price / Maximum Price					\$ 677,416	\$ 249,618	\$ 427,798	\$ -

Assumptions

1	While our proposed solution does not include a Mobile App, the deliverables in this Schedule will be used to track approval of Mobile Responsive features for the Statewide Portal.
2	Formulas within Schedule 2a SFY Total Columns have been adjusted to not simply be equal to the Total Deliverables Maximum Price. The Total Deliverables Maximum Price has been adjusted to be a sum of the Total across all applicable SFY's.
3	Unless otherwise noted, assumptions from Schedule 2 non-Mobile App deliverables apply to the Mobile App deliverables.

Schedule 4

Portal/Mobile Project Phase 1: Hardware and Software Price

Hardware and Software Line Items	SFY 2020/21 Total	SFY 2021/22 Total	SFY 2022/23 Total	Total Hardware & Software Price
Hardware				
Development Hardware	\$ -	\$ -	\$ -	\$ -
Central Hardware	\$ -	\$ -	\$ -	\$ -
Hardware Subtotal	\$ -	\$ -	\$ -	\$ -
Hardware Support				
Development Hardware Support	\$ -	\$ -	\$ -	\$ -
Central Hardware Support	\$ -	\$ -	\$ -	\$ -
Hardware Support Subtotal	\$ -	\$ -	\$ -	\$ -
Hardware and Hardware Support Total	\$ -	\$ -	\$ -	\$ -
Software				
Development Software	\$ 31,584	\$ 34,455	\$ -	\$ 66,039
Central Software	\$ 153,083	\$ 167,000	\$ -	\$ 320,083
Software Subtotal	\$ 184,667	\$ 201,455	\$ -	\$ 386,122
Software Support				
Development Software Support	\$ 3,158	\$ 3,446	\$ -	\$ 6,604
Central Software Support	\$ 14,110	\$ 16,700	\$ -	\$ 30,810
Software Support Subtotal	\$ 17,269	\$ 20,146	\$ -	\$ 37,414
Software and Software Support Total	\$ 201,936	\$ 221,601	\$ -	\$ 423,536
Total Portal/Mobile Project Hardware and Software Price	\$ 201,936	\$ 221,601	\$ -	\$ 423,536

COST SCHEDULES

Attachment A

	Assumptions
1	All obligations, if any, to purchase and deliver hardware, software and other tangible products shall be assigned by us to Deloitte Consulting Product Services LLC (DCPS). DCPS will perform all activities contemplated by the Statement of Work that are or may be deemed to be a resale of tangible products for any purpose, although Deloitte Consulting may serve as an agent for DCPS solely for the purposes of invoicing, and collecting payment, with respect thereto. Hardware, software and other tangible products will be provided to the Consortium under the third-party vendor's agreement accompanying such hardware, software or product, and its use will be governed by the terms thereof. In addition, all warranty and support offered by the third-party manufacturer or software developer will be as set forth in such agreement, and the Consortium shall look directly to such third-party manufacturer or software developer with respect to such warranty and support obligations. The Consortium shall permit Deloitte Consulting to access and use such hardware, software, and other tangible products as necessary for purposes of Deloitte Consulting's performance of the Services.
2	While Deloitte Consulting may be in a position to resell to Consortium the hosting elements included in our solution, we propose that any and all final requirements and related agreements as it pertains to hosting on AWS, as provided in our Response, will be directly procured and agreed upon between the Consortium and AWS and shall exclude Deloitte Consulting. We have found that this approach is more advantageous to our clients from a pricing and services perspective. Thus, the Consortium will execute all license, support and vendor documentation directly with the applicable third-party vendors.
3	Based on our proposed schedule, the DD&I for Phase 1 of the project along with the 1 year M&O ends in SFY 2021/2022. Therefore we have not included software costs for SFY 2022/2023 as it is not part of the base contract term.
4	No additional Accenture IP CalHEERS licenses will be needed to deliver self-service portal and mobile application development, including interfaces between the Statewide Portal and CalHEERS. Existing licenses can be re-used, if needed, for any SSP or mobile app license requirements.
5	Software costs provided in worksheet 4. HW & SW are based on pricing available to Deloitte and the actual cost may vary based on the procurement vehicle selected by the Consortium.
6	The Consortium's existing project management and communication tools will be used for this project; no additional licenses are required.
7	Based on 14 million active CA recipients, we assume 30% of that population is going to actively use the system. Given this mix, we anticipate a maximum active concurrent user count per minute to not exceed 1000 users. Additionally, we assume that there are no more than 1.5 million unique users per month.
8	Based on application sizing from a Production system in another state on Intel architecture, we assume the application will process 50 requests at the database per thread. Assuming 4 threads per CPU, we expect production database CPU consumption be at 15 vCPUs max and have allocated 16 vCPUs in RDS. This capacity will be verified along with any and all capacity assumptions during performance testing. A review with the Consortium will be done following the change control process to adjust capacity as needed.

COST SCHEDULES

Attachment A

9	Docker – Kubernetes sizing assumptions: a.Worker Nodes in Dev (Containers for 2 Web, 2 App, 2 Kafka, 1 Zookeeper, 1 Spark) b.SIT/UAT/INT (Containers for: 6 web, 6 app, 6 Kafka, 1 Zookeeper, 3 Spark) c.Prod and Performance each: (Containers for: 20 app, 6 web, 6 Spark, 2 Zookeepers, 12 Kafka)
10	We assume that there is an existing AWS DirectConnect between state data center and AWS instance of CalSAWS on which our application will be hosted

Schedule 5

Portal/Mobile Project Phase 2: Hardware and Software Price

Hardware and Software Line Items	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total	Total Hardware & Software Price
Hardware				
Development Hardware	\$ -	\$ -	\$ -	\$ -
Central Hardware	\$ -	\$ -	\$ -	\$ -
Hardware Subtotal	\$ -	\$ -	\$ -	\$ -
Hardware Support				
Development Hardware Support	\$ -	\$ -	\$ -	\$ -
Central Hardware Support	\$ -	\$ -	\$ -	\$ -
Hardware Support Subtotal	\$ -	\$ -	\$ -	\$ -
Hardware and Hardware Support Total	\$ -	\$ -	\$ -	\$ -
Software				
Development Software	\$ -	\$ -	\$ -	\$ -
Central Software	\$ -	\$ -	\$ -	\$ -
Software Subtotal	\$ -	\$ -	\$ -	\$ -
Software Support				
Development Software Support	\$ -	\$ -	\$ -	\$ -
Central Software Support	\$ -	\$ -	\$ -	\$ -
Software Support Subtotal	\$ -	\$ -	\$ -	\$ -
Software and Software Support Total	\$ -	\$ -	\$ -	\$ -
Total Portal/Mobile Project Hardware and Software Price	\$ -	\$ -	\$ -	\$ -

	Assumptions
1	All assumptions from Schedule 4, Phase 1 HW & SW tab apply to Schedule 5, Phase 2 HW & SW tab unless otherwise specified.

Schedule 5

Portal/Mobile Project Phase 2: Hardware and Software Price

	Hardware and Software Line Items	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total	Total Hardware & Software Price
2	<p>Software related to requirement FN113:</p> <ul style="list-style-type: none"> • Includes design, development, testing, and translation for up to 3 intents to enable the query of publicly available information from the Portal/Mobile App solution FAQ / Help • Assumes Standard Edition for Dialogflow, which is free • If consumption of Google Assistant Actions increases beyond Standard Edition limits, Deloitte will work with the Consortium to enable a pay-as-you-go plan with Enterprise Edition (with Consortium bearing the costs) 				

Schedule 5

Portal/Mobile Project Phase 3: Hardware and Software Price

Hardware and Software Line Items	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total	SFY 2024/25 Total
Hardware				
Development Hardware	\$ -	\$ -	\$ -	\$ -
Central Hardware	\$ -	\$ -	\$ -	\$ -
Hardware Subtotal	\$ -	\$ -	\$ -	\$ -
Hardware Support				
Development Hardware Support	\$ -	\$ -	\$ -	\$ -
Central Hardware Support	\$ -	\$ -	\$ -	\$ -
Hardware Support Subtotal	\$ -	\$ -	\$ -	\$ -
Hardware and Hardware Support Total	\$ -	\$ -	\$ -	\$ -
Software				
Development Software	\$ -	\$ -	\$ 34,455	\$ 34,455
Central Software	\$ -	\$ -	\$ 167,000	\$ 167,000
Software Subtotal	\$ -	\$ -	\$ 201,455.50	\$ 201,455.50
Software Support				
Development Software Support	\$ -	\$ -	\$ 3,446	\$ 3,446
Central Software Support	\$ -	\$ -	\$ 16,700	\$ 16,700
Software Support Subtotal	\$ -	\$ -	\$ 20,145.55	\$ 20,145.55
Software and Software Support Total	\$ -	\$ -	\$ 221,601	\$ 221,601
Total Portal/Mobile Project Hardware and Software Price	\$ -	\$ -	\$ 221,601	\$ 221,601

	Assumptions
1	All assumptions from Schedule 4, Phase 1 HW & SW tab apply to Schedule 5, Phase 2 HW & SW tab unless otherwise specified.

Schedule 5

Portal/Mobile Project Phase 3: Hardware and Software Price

Hardware and Software Line Items		SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total	SFY 2024/25 Total
2	<p>Software related to requirement FN113:</p> <ul style="list-style-type: none"> • Includes design, development, testing, and translation for up to 3 intents to enable the query of publicly available information from the Portal/Mobile App solution FAQ / Help • Assumes Standard Edition for Dialogflow, which is free • If consumption of Google Assistant Actions increases beyond Standard Edition limits, Deloitte will work with the Consortium to enable a pay-as-you-go plan with Enterprise Edition (with Consortium bearing the costs) 				

Schedule 6

Portal/Mobile Project Maintenance & Operations Price: 1st 36 Months

Maintenance & Operations	SFY 2021/22 Total	SFY 2022/23 Total	SFY 2023/24 Total	SFY 2024/25 Total	Total Portal/Mobile M&O Price
Application Enhancements & Releases	\$ 2,297,035	\$ 6,235,680	\$ 6,235,680	\$ 3,117,840	\$ 17,886,235
WAN Administration	\$ -	\$ -	\$ -		\$ -
Cloud Infrastructure	\$ 827,667	\$ 1,504,848	\$ 1,504,848	\$ 752,424	\$ 4,589,787
Total Portal/Mobile Project M&O Price	\$ 3,124,702	\$ 7,740,528	\$ 7,740,528	\$ 3,870,264	\$ 22,476,022

	Assumptions
1	Deloitte is proposing a cloud based solution on Amazon AWS and as such have not include WAN administration as it is not applicable.
2	Deloitte assumes up to one minor build per month and up to one major release per quarter during the M&O as defined in the M&O section of our response.
3	Cloud infrastructure includes services to monitor and configure AWS cloud infrastructure during M&O as noted in our proposal response.
4	The apportionment across SFY's assumes that M&O begins after Phase 2. If the Phase 2 option is not selected, the M&O total will remain the same however the apportionment across SFY's will vary.
5	Cells C10, D10, E10, and F10 on Schedule 6 were updated to include the Application Enhancements & Releases in the total.
6	Deloitte has assumed a fixed capacity of 15,000 hours of system related enhancements to be included as part of this first year of M&O scope to be completed by testers, programmer analysts, business analysts and UCD analysts.

Schedule 8

Portal/Mobile Project Change Order Hourly Rate Card

Staff Description	SFY 2020/21 Hourly Rate	SFY 2021/22 Hourly Rate	SFY 2022/23 Hourly Rate	SFY 2023/24 Hourly Rate
App Dev Lead	\$ 137.25	\$ 137.25	\$ 137.25	\$ 137.25
Business Analyst	\$ 115.29	\$ 115.29	\$ 115.29	\$ 115.29
Cloud Engineer	\$ 131.76	\$ 131.76	\$ 131.76	\$ 131.76
DevOps/Tools Engineer	\$ 91.13	\$ 91.13	\$ 91.13	\$ 91.13
Digital Transformation Engineer	\$ 115.29	\$ 115.29	\$ 115.29	\$ 115.29
Digital Transformation Lead	\$ 137.25	\$ 137.25	\$ 137.25	\$ 137.25
Junior Programmer Analyst	\$ 109.80	\$ 109.80	\$ 109.80	\$ 109.80
Project Executive	\$ 236.07	\$ 236.07	\$ 236.07	\$ 236.07
Project Manager	\$ 126.27	\$ 126.27	\$ 126.27	\$ 126.27
Security Engineer	\$ 142.74	\$ 142.74	\$ 142.74	\$ 142.74
Security Lead	\$ 181.17	\$ 181.17	\$ 181.17	\$ 181.17
Senior Business Analyst	\$ 120.78	\$ 120.78	\$ 120.78	\$ 120.78
Senior Digital Transformation Engineer	\$ 120.78	\$ 120.78	\$ 120.78	\$ 120.78
Senior Programmer Analyst	\$ 144.24	\$ 144.24	\$ 144.24	\$ 144.24
Senior Security Engineer	\$ 148.23	\$ 148.23	\$ 148.23	\$ 148.23
Senior Tester	\$ 82.35	\$ 82.35	\$ 82.35	\$ 82.35
Test/QA Lead	\$ 109.80	\$ 109.80	\$ 109.80	\$ 109.80
Tester	\$ 72.47	\$ 72.47	\$ 72.47	\$ 72.47
Trainer	\$ 120.78	\$ 120.78	\$ 120.78	\$ 120.78
User Centered Design Analyst	\$ 148.23	\$ 148.23	\$ 148.23	\$ 148.23
User Centered Design Lead	\$ 159.21	\$ 159.21	\$ 159.21	\$ 159.21
User Interface Lead	\$ 164.70	\$ 164.70	\$ 164.70	\$ 164.70
User Outreach and Adoption Lead	\$ 164.70	\$ 164.70	\$ 164.70	\$ 164.70
UX Analyst	\$ 164.70	\$ 164.70	\$ 164.70	\$ 164.70

Schedule 7**Portal/Mobile Hourly Rate Card Phase 1: DD&I Phase**

Staff Description	Hourly Rate
App Dev Lead	\$ 125.00
Business Analyst	\$ 105.00
Cloud Engineer	\$ 120.00
DevOps/Tools Engineer	\$ 83.00
Digital Transformation Engineer	\$ 105.00
Digital Transformation Lead	\$ 125.00
Junior Programmer Analyst	\$ 100.00
Project Executive	\$ 215.00
Project Manager	\$ 115.00
Security Engineer	\$ 130.00
Security Lead	\$ 165.00
Senior Business Analyst	\$ 110.00
Senior Digital Transformation Engineer	\$ 110.00
Senior Programmer Analyst	\$ 131.36
Senior Security Engineer	\$ 135.00
Senior Tester	\$ 75.00
Test/QA Lead	\$ 100.00
Tester	\$ 66.00
Trainer	\$ 110.00
User Centered Design Analyst	\$ 135.00
User Centered Design Lead	\$ 145.00
User Interface Lead	\$ 150.00
User Outreach and Adoption Lead	\$ 150.00
UX Analyst	\$ 150.00
Average Hourly Rate	\$ 106.51

Attachment A

Schedule 9 Staff Loading

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COST SCHEDULES
Attachment A

ID	Key Task	Deliverable Description	Position	Hourly Rate	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total Firmwide Phase 1 (D&A) Hours	Total Firmwide Phase 1 (D&A) Price		
3.1	JAN/VCE/OT team tasks + Technical Design (JAN)	DEL 10 - Mobile App General and Technical System Design																								
			Project Executive	\$ 215,000							470.0	885.0	415.0												1,770.0	\$ 287,418
			Project Manager	\$ 110,000							20.0	100.0	20.0												130.0	\$ 21,700
			Senior Business Analyst	\$ 110,000							20.0	200.0	20.0												260.0	\$ 44,600
			Business Analyst	\$ 105,000							40.0	400.0	40.0												1,200.0	\$ 126,000
			User Interface Lead	\$ 150,000							40.0	400.0	40.0												1,200.0	\$ 180,000
			App Dev Lead	\$ 125,000							20.0	200.0	20.0												80.0	\$ 10,000
			Security Lead	\$ 140,000							20.0	200.0	20.0												40.0	\$ 5,600
			QA Analyst	\$ 100,000							40.0	400.0	40.0												1,600.0	\$ 240,000
			Senior Programmer Analyst	\$ 131.34							160.0	1600.0	160.0												480.0	\$ 63,033
			Junior Programmer Analyst	\$ 100,000							160.0	1600.0	160.0												480.0	\$ 48,000
			Security Lead	\$ 140,000							10.0	100.0	10.0											30.0	\$ 4,200	
			Senior Security Engineer	\$ 130,000							40.0	400.0	40.0											120.0	\$ 15,600	
			Security Engineer	\$ 100,000							80.0	800.0	80.0											240.0	\$ 31,200	
			DevOps/Cloud Engineer	\$ 80.00							40.0	400.0	40.0											120.0	\$ 9,600	
4.0	Application Development	DEL 11 - Portal Technical Systems Design			711.0	711.0	711.0	711.0	711.0	811.0	1,011.0	500.0	410.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	5,710.0	\$ 1,002,417		
			Project Executive	\$ 215,000							711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	7,110.0	\$ 1,002,417	
			Project Manager	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Senior Business Analyst	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Business Analyst	\$ 105,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 10,500	
			App Dev Lead	\$ 125,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 25,000	
			Senior Programmer Analyst	\$ 131.34							80.0	800.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	800.0	\$ 104,824	
			Junior Programmer Analyst	\$ 100,000							80.0	800.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	800.0	\$ 80,000	
			Security Lead	\$ 140,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 28,000	
			Senior Security Engineer	\$ 130,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 26,000	
			Security Engineer	\$ 100,000							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 40,000	
			DevOps/Cloud Engineer	\$ 80.00							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 32,000	
			QA Analyst	\$ 100,000							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 40,000	
			Senior Programmer Analyst	\$ 131.34							160.0	1600.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1600.0	\$ 209,624	
			Junior Programmer Analyst	\$ 100,000							160.0	1600.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1600.0	\$ 160,000	
4.1	Technical Design (JAN)	DEL 12 - Mobile App General and Technical System Design			711.0	711.0	711.0	711.0	711.0	811.0	1,011.0	500.0	410.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	5,710.0	\$ 1,002,417	
			Project Executive	\$ 215,000							711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	7,110.0	\$ 1,002,417	
			Project Manager	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Senior Business Analyst	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Business Analyst	\$ 105,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 10,500	
			App Dev Lead	\$ 125,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 25,000	
			Senior Programmer Analyst	\$ 131.34							80.0	800.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	800.0	\$ 104,824	
			Junior Programmer Analyst	\$ 100,000							80.0	800.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	800.0	\$ 80,000	
			Security Lead	\$ 140,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 28,000	
			Senior Security Engineer	\$ 130,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 26,000	
			Security Engineer	\$ 100,000							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 40,000	
			DevOps/Cloud Engineer	\$ 80.00							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 32,000	
			QA Analyst	\$ 100,000							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 40,000	
			Senior Programmer Analyst	\$ 131.34							160.0	1600.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1600.0	\$ 209,624	
			Junior Programmer Analyst	\$ 100,000							160.0	1600.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1600.0	\$ 160,000	
4.2	Prep MCO Plan	DEL 13 - Maintenance & Operations (MCO) Plan			711.0	711.0	711.0	711.0	711.0	811.0	1,011.0	500.0	410.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	5,710.0	\$ 1,002,417		
			Project Executive	\$ 215,000							711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	7,110.0	\$ 1,002,417	
			Project Manager	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Senior Business Analyst	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Business Analyst	\$ 105,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 10,500	
			App Dev Lead	\$ 125,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 25,000	
			Senior Programmer Analyst	\$ 131.34							80.0	800.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	800.0	\$ 104,824	
			Junior Programmer Analyst	\$ 100,000							80.0	800.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	800.0	\$ 80,000	
			Security Lead	\$ 140,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 28,000	
			Senior Security Engineer	\$ 130,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	200.0	\$ 26,000	
			Security Engineer	\$ 100,000							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 40,000	
			DevOps/Cloud Engineer	\$ 80.00							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 32,000	
			QA Analyst	\$ 100,000							40.0	400.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	400.0	\$ 40,000	
			Senior Programmer Analyst	\$ 131.34							160.0	1600.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1600.0	\$ 209,624	
			Junior Programmer Analyst	\$ 100,000							160.0	1600.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	1600.0	\$ 160,000	
4.3	Implementation and Final Acceptance	DEL 14 - Mobile App General and Technical System Design			711.0	711.0	711.0	711.0	711.0	811.0	1,011.0	500.0	410.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	5,710.0	\$ 1,002,417		
			Project Executive	\$ 215,000							711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	7,110.0	\$ 1,002,417	
			Project Manager	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Senior Business Analyst	\$ 110,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 11,000	
			Business Analyst	\$ 105,000							10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	100.0	\$ 10,500	
			App Dev Lead	\$ 125,000							20.0	200.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	2						

COST SCHEDULES

Attachment A

Schedule 10. AWS IaaS Resources

Instructions:

- 1 - Using the AWS pricing calculator found here: <https://calculator.s3.amazonaws.com/index.html>
- 2 - Select "US West (Oregon)" for the region
- 3 - Create your resources as needed from the pricing calculator
- 4 - Be sure to include storage and data transfer costs
- 5 - Use "On-Demand" for the billing option
- 6 - Enter each resource on a row below. Add new rows as needed.
- 7 - Do NOT include support costs
- 8 - Remove the two examples

AWS Resource List		Resource Type	Quantity	Monthly Cost	Total Monthly Cost	Notes
1	Production (Prod VPC) EC2 (Web, App, Reporting)	M5.large	3	\$ 112.32	\$ 337	
		M5.xlarge	6	\$ 181.44	\$ 1,089	
		r5.2xlarge	2	\$ 456.48	\$ 913	
2	Performance EC2 (Web, App, Reporting)	M5.large	3	\$ 4.67	\$ 14	
		M5.xlarge	6	\$ 7.55	\$ 45	
		r5.2xlarge	2	\$ 18.99	\$ 38	
3	Staging (Prod VPC) EC2 (Web, App, Reporting)	M5.large	3	\$ 9.36	\$ 28	
		M5.xlarge	6	\$ 15.11	\$ 91	
		r5.2xlarge	2	\$ 38.02	\$ 76	
4	SIT/UAT/INT EC2 (Web, App, Reporting)	M5.large	3	\$ 56.16	\$ 168	
		M5.xlarge	2	\$ 90.72	\$ 181	
		r5.xlarge	2	\$ 112.32	\$ 225	
5	DEV EC2 (Web, App, Reporting)	M5.large	3	\$ 56.16	\$ 168	
		M5.xlarge	2	\$ 90.72	\$ 181	
		r5.xlarge	2	\$ 112.32	\$ 225	
6	Shared tools system	c5.2xlarge	1	\$ 509.76	\$ 510	
7	Tools Prod (App, Web, Tools systems)	m5.2xlarge	5	\$ 541.44	\$ 2,707	
		c5.xlarge	2	\$ 254.88	\$ 510	
		c5.2xlarge	2	\$ 509.76	\$ 1,020	
		m5.xlarge	3	\$ 181.44	\$ 544	
8	Tools Test (App, Web, Tools systems)	m5.xlarge	2	\$ 270.72	\$ 541	
		m5.2xlarge	3	\$ 541.44	\$ 1,624	
		c5.large	2	\$ 84.24	\$ 168	
		c5.2xlarge	2	\$ 509.76	\$ 1,020	
		c5.xlarge	3	\$ 165.60	\$ 497	
9	Databricks	m5.2xlarge	2	\$ 92.00	\$ 184	
10	Production (Prod VPC) RDS	db.r5.4xlarge	1	\$ 2,880.00	\$ 2,880	
	Production (Prod VPC) RDS Storage (in GB)	5120	1	\$ 1,177.60	\$ 1,178	

COST SCHEDULES

AWS Resource List		Resource Type	Quantity	Monthly Cost	Total Monthly Cost	Notes
11	Performance RDS	db.r5.4xlarge	1	\$ 59.90	\$ 60	
	Performance RDS storage (in GB)	1024	1	\$ 117.76	\$ 118	
12	Staging (Prod VPC) RDS	db.r5.xlarge	1	\$ 29.99	\$ 30	
	Staging (Prod VPC) RDS Storage (in GB)	5120	1	\$ 588.80	\$ 589	
13	SIT/UAT/INT RDS	db.r5.xlarge	2	\$ 180.00	\$ 360	
	SIT/UAT/INT RDS Storage (in GB)	500	2	\$ 82.80	\$ 166	
14	DEV RDS	db.r5.xlarge	1	\$ 180.00	\$ 180	
	DEV RDS Storage (in GB)	500	1	\$ 82.80	\$ 83	
15	Tools Prod RDS	db.t3.xlarge	1	\$ 1,503.36	\$ 1,503	
	Tools Prod RDS Storage (in GB)	500	1	\$ 115.00	\$ 115	
16	Tools Test RDS	db.t3.xlarge	1	\$ 751.68	\$ 752	
	Tools Test RDS Storage (in GB)	250	1	\$ 28.75	\$ 29	
17	EBS Production (in GB)	1100	1	\$ 110.00	\$ 110	
18	EBS Snapshots -Production (in GB)	1650	1	\$ 82.50	\$ 83	
19	EBS Performance (in GB)	1100	1	\$ 110.00	\$ 110	
20	EBS Snapshots -Performance (in GB)	1650	1	\$ 82.50	\$ 83	
21	EBS Staging (in GB)	1100	1	\$ 110.00	\$ 110	
22	EBS Snapshots -Staging (in GB)	1650	1	\$ 82.50	\$ 83	
23	EBS SIT/UAT/INT (in GB)	700	1	\$ 72.00	\$ 72	
24	EBS Snapshots	1050	1	\$ 52.50	\$ 53	
25	EBS DEV	700	1	\$ 72.00	\$ 72	
26	EBS Snapshots Dev	1050	1	\$ 52.50	\$ 53	
27	EBS Shared	200	1	\$ 20.00	\$ 20	
28	EBS Snapshots Shared	300	1	\$ 15.00	\$ 15	
29	EBS Shared 2	2700	1	\$ 270.00	\$ 270	
30	EBS Snapshots Shared	4050	1	\$ 202.50	\$ 203	
31	EBS Shared 3	2700	1	\$ 270.00	\$ 270	
32	EBS Snapshots Shared	4050	1	\$ 202.50	\$ 203	
33	Object Storage (S3)	11264	1	\$ 259.07	\$ 259	
34	AWS Native Tools	AWS Config (license #	10000	\$ 0.00	\$ 30	
			10000	\$ 0.00	\$ 10	
			10000	\$ 0.00	\$ 12	
		AWS API Gateway - RE	2	\$ 3.50	\$ 7	
			1	\$ 0.54	\$ 1	
		AWS Cognito (license	1	\$ 3,250.00	\$ 3,900	
		AWS CodeBuild (licen	2	\$ 216.00	\$ 432	
		AWS CodePipeline (lic	60	\$ 1.00	\$ 60	
Totals			30222		\$ 23,813	