NOTICE OF A VINEYARD REDEVELOPMENT AGENCY BOARD MEETING
July 13, 2022, at 6:00 PM

Public Notice is hereby given that the Vineyard Redevelopment Agency Board will hold a meeting on Wednesday, July 13, 2022**,** starting at 6:00 PM or as soon thereafter as possible, following the City Council Meeting, in the City Council Chambers at 125 South Main Street, Vineyard, Utah. This meeting can also be viewed on our live stream page.

AGENDA

1. CALL TO ORDER

2. CONSENT AGENDA

2.1 Approval of the June 29, 2022, RDA Meeting Minutes

3. BUSINESS ITEMS

3.1 DISCUSSION AND ACTION – Center Street Trailhead Parking Betterment Funding *(This item was continued from the June 29, 2022 RDA meeting.)* *(15 minutes)*
City Engineer Naseem Ghandour is requesting funding for betterments for the construction of a parking lot on 300 West for the Center Street trailhead as approve by council during the July 13, 2022 City Council Meeting. The RDA Board will take appropriate action.

3.2 DISCUSSION AND ACTION – Water Tank and Pipeline & Meter Station Design Projects Addendums *(5 minutes)*
City Engineer Naseem Ghandour will present Water Tank and Pipeline & Meter Station Design Projects Addendums. The RDA Board will take appropriate action.

4. ADJOURNMENT

RDA meetings are scheduled as necessary.

The Public is invited to participate in all Vineyard Redevelopment Agency meetings. In compliance with the Americans with Disabilities Act, individuals needing special accommodations during this meeting should notify the Deputy Recorder at least 24 hours before the meeting by calling (801) 226-1929.

I, Pamela Spencer, the undersigned duly appointed City Recorder for Vineyard, Utah, hereby certify that the foregoing notice and agenda was emailed to the Salt Lake Tribune, posted at the Vineyard City offices, the Vineyard City website, the Utah Public Notice website, delivered electronically to city staff and to each member of the Governing Body.

DRAFT

AGENDA NOTICING COMPLETED ON: July 11, 2022

CERTIFIED (NOTICED) BY: /s/Pamela Spencer
PAMELA SPENCER, CITY RECORDER

DRAFT

MINUTES OF A VINEYARD REDEVELOPMENT AGENCY BOARD MEETING

City Council Chambers
125 South Main Street, Vineyard, Utah
June 29, 2022, at 9:41 PM

Present	**Absent**
Chair Julie Fullmer	
Boardmember Tyce Flake	
Boardmember Amber Rasmussen	
Boardmember Mardi Sifuentes	
Boardmember Cristy Welsh	

Staff Present: City Manager Ezra Nair, City Attorney Jayme Blakesley, Finance Director David Mortensen, City Engineer Naseem Ghandour, Public Works Director Chris Wilson, Community Development Director Morgan Brim, Utah County Sheriff's Office Sergeant Holden Rockwell, Water Manager Sullivan Love, City Recorder Pamela Spencer

Others Speaking:

1. CALL TO ORDER

Chair Fullmer opened the meeting at 9:41 PM.

2. CONSENT AGENDA

2.1 Approval of the May 25, 2022, RDA Meeting Minutes
2.2 Water tank Pipeline Bid Award Phase 1 (Resolution U2022-03)
2.3 Bid Award for Special Inspections of 6 MG Water Tank (Resolution U2022-04)

Chair Fullmer called for a motion.

Motion: BOARDMEMBER FLAKE MOVED TO APPROVE CONSENT ITEMS 2.1, 2.2, AND 2.3. BOARDMEMBER SIFUENTES SECONDED THE MOTION. CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

3. BUSINESS ITEMS

3.1 DISCUSSION AND ACTION – Center Street Trailhead Parking Betterment Funding

City Engineer Naseem Ghandour is requesting funding for betterments for the construction of a parking lot on 300 West for the Center Street trailhead as approved by council during the June 29, 2022 City Council Meeting. The RDA Board will take appropriate action.

DRAFT

Chair Fullmer called for a motion to continue this item to another RDA meeting.

Motion: BOARDMEMBER FLAKE MOVED TO CONTINUE THE DISCUSSION ON THE CENTER STREET TRAILHEAD PARKING BETTERMENT FUNDING TO THE NEXT HELD RDA MEETING. BOARDMEMBER SIFUENTES SECONDED THE MOTION. CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

Chair Fullmer mentioned that Utah Department of Transportation had received the funding for the pedestrian overpass but were questioning the size of the overpass. There was a brief discussion about the cost for the different widths of the bridge.

3.2 PUBLIC HEARING – <u>Amending the Fiscal Year 2021-2022 RDA Budget (Resolution U2022-05)</u>

Finance Director David Mortensen will present amendments to the Fiscal Year 2021-2022 RDA budget. The RDA Board will act to adopt (or deny) this request by resolution.

Chair Fullmer called for a motion to open the public hearing.

Motion: BOARDMEMBER FLAKE MOVED TO OPEN THE PUBLIC HEARING AT 9:44 PM. BOARDMEMBER SIFUENTES SECONDED THE MOTION. CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

Because no public was present, Chair Fullmer called for a motion to close the public hearing.

Motion: BOARDMEMBER SIFUENTES MOVED TO CLOSE THE PUBLIC HEARING AT 9:44 PM. BOARDMEMBER FLAKE SECONDED THE MOTION. CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

Chair Fullmer turned the time over to Finance Director David Mortensen.

Mr. Mortensen gave a brief overview of the changes.

Chair Fullmer called for questions. Hearing none, she called for a motion.

Motion: BOARDMEMBER RASMUSSEN MOVED TO ADOPT RESOLUTION U2022-05 THE VINEYARD RDA FISCAL YEAR 2021-2022 BUDGET AMENDMENT #2, AS PRESENTED. BOARDMEMBER FLAKE SECONDED THE MOTION. ROLL CALL WENT AS FOLLOWS: CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

DRAFT

3.3 DISCUSSION AND ACTION – Final Fiscal Year 2022-2023 RDA Budget (Resolution U2022-06)

Finance Director David Mortensen will present the Final Fiscal Year 2022-2023 RDA budget. The RDA Board will act to adopt (or deny) this request by resolution. (A public hearing was held on the tentative budget during the May 25, 2022 RDA meeting.)

Chair Fullmer turned the time over to Finance Director David Mortensen.

Mr. Mortensen gave an overview of the final budget.

There was a discussion about the promenade cost and width. The consensus was to reduce the overpass to 70 feet and drop the promenade funds to $3.6 million to include 300 West improvements. There was also a discussion about allocating funds for designing the East Geneva Corridor.

Chair Fullmer felt that they should allocate funds to hire a full-time RDA Director. Mr. Nair explained that it would cost about $18,000 for the next fiscal year if they continued using Mr. McHargue. There was a discussion about the cost for the Director position.

Chair Fullmer called for questions. There was a discussion about funds for improvements to the hill in Vineyard Grove Park.

Chair Fullmer called for a motion. Mr. Mortensen reviewed the noted changes: reducing the UDOT overpass to $3.6 million, adding RDA Administrative Consulting for $18,000, adding RDA Economic Development for $100,000.

Motion: BOARDMEMBER FLAKE MOVED TO ADOPT RESOLUTION U2022-06, VINEYARD RDA FISCAL YEAR BUDGET FOR THE 2022-2023, AS PRESENTED WITH THE ADDITIONS AS NOTED. BOARDMEMBER WELSH SECONDED THE MOTION. ROLL CALL WENT AS FOLLOWS: CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

4. ADJOURNMENT

Chair Fullmer called for a motion to adjourn the meeting.

Motion: BOARDMEMBER SIFUENTES MOVED TO ADJOURN THE MEETING AT 10:14 PM. BOARDMEMBER FLAKE SECONDED THE MOTION. CHAIR FULLMER, BOARDMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.

MINUTES APPROVED ON: _____

CERTIFIED CORRECT BY: /s/ Pamela Spencer
PAMELA SPENCER, CITY RECORDER

DRAFT

VINEYARD RDA STAFF REPORT

Meeting Date: 06-29-2022

Agenda Item: 3.1 Center Street Trailhead Parking Betterment Agreement

Department: Community Development Department, Engineering Department

Presenter: Naseem Ghandour, P.E.

Background/Discussion:

City Council approved the City Staff request for a parking solution for the Center Street Trail Head.

City Staff was requested to develop a parking solution for the high use of the Center Street Trail Head, located west of 300 West and Center Street intersection in Vineyard City.

The request was driven by the complaints from residents regarding trail users' cars parking along the 300 West, a collector road with no on or off-street parking, and trail users' cars parking in the adjacent neighborhood blocking residents from utilizing their street and creating traffic and public safety concerns.

City Staff estimated that trail users' cars approximate to an average of 20 to 40 cars at the early days of Spring, with those numbers estimated to increase as the warmer weather allows for more residents, visitors, and families to utilize the city's waterfront trail system and parks.

City Staff engaged with Home Center Construction, the contractor who is currently developing and building new neighborhoods located directly east of the Center Street Trail Head to seek a solution to provide off-street parking for the city's trail users. Home Center Construction provided a preliminary design (***Attachment B***). This proposal requires Home Center Construction to alter their city approved development plans. Home Center Construction has agreed to charge the city for the improvements at the cost above what they would have spent ($27,428) based on the approved design (***Attachments C & D***).

The proposed solution will add forty-eight (48) parking stalls in an area closest to the Center Street Trail with 24 stalls located along the north parking lot and 14 stalls located along the south parking lot. Additionally, City Staff will provide ADA improvements to the current parking located at the trail head.

VINEYARD
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VINEYARD RDA STAFF REPORT

Fiscal Impact:
Total: $123,240.70 in FY23

- $74,862, North Parking Lot
- $32,175, South Parking Lot
- $5,000 for ADA Improvements at Center Street Trail Head
- 10% Contingency

Recommendation:
Staff Recommends Approval

Sample Motion:
Option 1:
Motion to approve the RDA FY23 project and funding for Construct 300 West Trailhead Parking Project, ADA Improvements at Center Street Trail Head AND NORTH and SOUTH parking lots through the betterment agreement with Home Center Construction.

Option 2:
Motion to approve the RDA FY23 project and funding for Construct 300 West Trailhead Parking Project, ADA Improvements at Center Street Trail Head AND NORTH parking lot ONLY through the betterment agreement with Home Center Construction.

Option 3:
Motion to approve the RDA FY23 project and funding for Construct 300 West Trailhead Parking Project, ADA Improvements at Center Street Trail Head AND SOUTH parking lot ONLY through the betterment agreement with Home Center Construction.

Attachments:

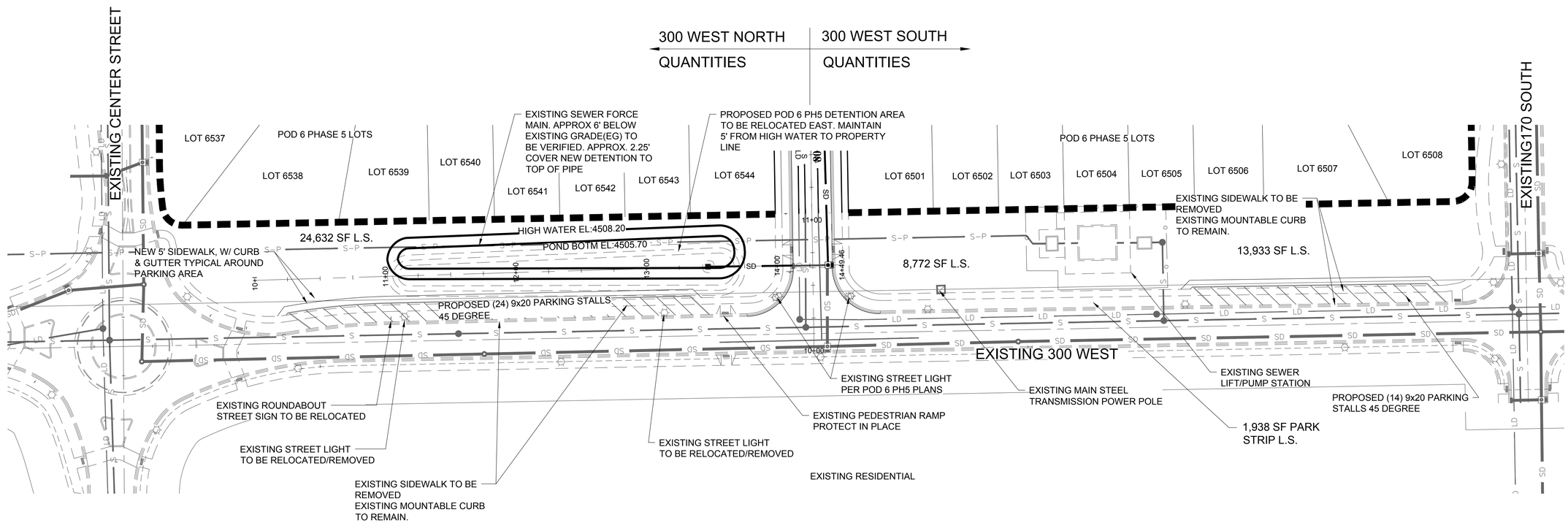
A. Aerial of Trail Head Parking
B. Parking Exhibit – Engineer's Layout
C. Schedule A Cost Break Down for North Parking Lot
D. Schedule A Cost Break Down for South Parking Lot

VINEYARD RDA STAFF REPORT

Aerial Map

VINEYARD RDA STAFF REPORT

Aerial Map



QUANTITIES 300 WEST NORTH

330 LF	EXISTING SIDEWALK REMOVAL
4,332 SF	AC PARKING AREA
347 LF	NEW APWA 'P' CURB PARKING AREA
1,612 SF	NEW CONCRETE 5' WIDE SIDEWALK AROUND PARKING AREA
460 LF	4" WIDE PARKING STRIPING
2 EA	REMOVE or RELOCATE EXISTING STREET LIGHTS

* RELOCATION OF EXISTING DRY UNDERGROUND UTILITIES NOT A PART OF THIS QUANTITY ESTIMATE. COORDINATION WITH UTILITY ENTITIES TO BE DONE SEPARATELY.

QUANTITIES 300 WEST SOUTH

185 LF	EXISTING SIDEWALK REMOVAL
2,525 SF	AC PARKING AREA
218 LF	NEW APWA 'P' CURB PARKING AREA
968 SF	NEW CONCRETE 5' WIDE SIDEWALK AROUND PARKING AREA
260 LF	4" WIDE PARKING STRIPING

* RELOCATION OF EXISTING DRY UNDERGROUND UTILITIES NOT A PART OF THIS QUANTITY ESTIMATE. COORDINATION WITH UTILITY ENTITIES TO BE DONE SEPARATELY.

GILSON ENGINEERING
Consulting Engineers & Surveyors
12401 SOUTH 450 EAST BUILDING C, UNIT 2, DRAPER, UT 84020
PHONE: (801) 571-9414 FAX: (801) 571-9449

THE COTTONWOODS AT THE HOMESTEADS

REVISIONS

REV	DATE	BY	COMMENTS
1	4-25-22	JG	REVERSE 45 DEG. BACK-IN STALLS
2	5-4-22	JG	ADD STALLS SOUTH OF PUMP STATION

1" SCALE MEASURES 1" ON FULL SIZE SHEET
ADJUST FOR HALF SIZE SHEET

DATE: MAY 2022
DRAWING NAME:
DESIGNED/DRAWN BY: JG/BP
CHECKED: | APPROVED:

300 W STREET PARKING EXHIBIT

THE COTTONWOODS AT THE HOMESTEADS
POD 6, PHASE 5
VINEYARD, UTAH 84059
UTAH COUNTY, UTAH

REVISION: --

PROJ. # AIM.053

EXBT

POD6 PH5 PARKING EXHIBIT 45 DEGREE.DWG

SCHEDULE A
HOMESTEADS, VINEYARD, UT
IMPROVEMENT COSTS - POD 6; Phase 5
PARKING STALLS - 300 W. NORTH

	REYNOLDS BROS.			
	Phase 5 - Parking North			TOTAL
ITEM	Unit $	Unit	Quantity	$ COST
SITE DEMOLITION				
Traffic Control	$ 2,600.00	LS	1	$ 2,600.00
Saw Cutting	$ 4.00	LF	150	$ 600.00
Remove Site Concrete	$ 65.00	CY	40	$ 2,600.00
SUB TOTAL				**$ 5,800.00**
EARTHWORK				
General Conditions/Mobilization	$ 5,500.00	LS	1	$ 5,500.00
Clear, Grub and Haul Away	$ 45.00	CY	40	$ 1,800.00
Excavate Parking Stalls to Subgrade	$ 8.00	CY	400	$ 3,200.00
Haul Excaess Soil to Pod 7	$ 10.00	CY	400	$ 4,000.00
Grade Subgrade	$ 0.30	SF	6,100	$ 1,830.00
Curb & Gutter Grade & Base	$ 9.00	LF	360	$ 3,240.00
Backfill Curb & Gutter	$ 4.00	LF	360	$ 1,440.00
Sidewalk Grading	$ 1.00	SF	1,680	$ 1,680.00
Road Base Under Sidewalk	$ 50.00	TON	80	$ 4,000.00
Place Granular Borrow Under Asphalt Paving	$ 40.00	TON	150	$ 6,000.00
SUB TOTAL				**$ 32,690.00**
SITE IMPROVEMENTS				
24" Modified Curb & Gutter	$ 30.00	LF	360	$ 10,800.00
Sidewalk	$ 5.00	SF	1,680	$ 8,400.00
4" Asphalt with 4" Road Base	$ 4.30	SF	4,500	$ 19,350.00
SUB TOTAL				**$ 38,550.00**
MISCELLANEOUS				
Testing	$ 1,500.00	LS	1	$ 1,500.00
Remove and Replace Street Lights	$ 6,500.00	SF	2	$ 13,000.00
Remove and Replace Street Signs	$ 650.00	LF	1	$ 650.00
SUB TOTAL				**$ 15,150.00**
			TOTAL	**$ 92,190.00**
NOTE: Credit Towards Landscaping Bond (4,332 S.F. X $4.00)				$ 17,328.00

SCHEDULE A
HOMESTEADS, VINEYARD, UT
IMPROVEMENT COSTS - POD 6; Phase 5
PARKING STALLS - 300 W. SOUTH

	REYNOLDS BROS.			
	Phase 5 - Parking South			TOTAL
ITEM	Unit $	Unit	Quantity	$ COST
SITE DEMOLITION				
Traffic Control	$ 1,250.00	LS	1	$ 1,250.00
Saw Cutting	$ 4.00	LF	100	$ 400.00
Remove Site Concrete	$ 65.00	CY	20	$ 1,300.00
SUB TOTAL				**$ 2,950.00**
EARTHWORK				
General Conditions/Mobilization	$ 4,000.00	LS	1	$ 4,000.00
Clear, Grub and Haul Away	$ 45.00	CY	20	$ 900.00
Excavate Parking Stalls to Subgrade	$ 8.00	CY	150	$ 1,200.00
Haul Excaess Soil to Pod 7	$ 10.00	CY	150	$ 1,500.00
Grade Subgrade	$ 0.30	SF	3,500	$ 1,050.00
Curb & Gutter Grade & Base	$ 9.00	LF	210	$ 1,890.00
Backfill Curb & Gutter	$ 4.00	LF	210	$ 840.00
Sidewalk Grading	$ 1.00	SF	980	$ 980.00
Road Base Under Sidewalk	$ 50.00	TON	40	$ 2,000.00
Place Granular Borrow Under Asphalt Paving	$ 40.00	TON	50	$ 2,000.00
SUB TOTAL				**$ 16,360.00**
SITE IMPROVEMENTS				
24" Modified Curb & Gutter	$ 30.00	LF	220	$ 6,600.00
Sidewalk	$ 5.00	SF	980	$ 4,900.00
4" Asphalt with 4" Road Base	$ 4.30	SF	2,550	$ 10,965.00
SUB TOTAL				**$ 22,465.00**
MISCELLANEOUS				
Testing	$ 500.00	LS	1	$ 500.00
SUB TOTAL				**$ 500.00**
			TOTAL	**$ 42,275.00**
NOTE: Credit Towards Landscaping Bond (2,525 S.F. X $4.00)				$ 10,100.00

VINEYARD
STAY CONNECTED

VINEYARD RDA COUNCIL STAFF REPORT

Meeting Date: 7-13-2022

Agenda Item: 3.2 Water Tank and Pipeline & Meter Station Design Projects Addendums

Department: Engineering

Presenter: Naseem Ghandour, P.E.

Background/Discussion:
The city staff wishes for the RDA board to approve funds to revise the existing contract with Hansen Allen and Luce (HAL) Engineering for design services related to the Vineyard City 6MG Water Tank project **(Attachment 1)** and Vineyard City Pipelines and Meter Station project **(Attachment 2)**.

Vineyard City 6MG Water Tank Design project (up to $62,772.12):
This addendum is required for the City Water Tank project as it allows the city to continue with its Water Master Plan, allowing for a 10-year projection of culinary water needs to meet the city's population growth and community services; Development of operations plan for the Water Tank to ensure that the system and personnel are operating at efficiency and uncompromised quality; Engineering assistance for the fire flow of 120 existing buildings that were built prior to the Fire Flow policy and that the development of the Downtown Vineyard does not negatively impact the city's water system.

Task 1: City Water Master Plan ($30,432.22, to include item c)
- a. Currently over budget by $4,379.30 due to evaluating system issues and scenarios requested by the City.
- b. Finalize the Water Master Plan report and presentation to the Council.
- c. Added determining City Water Impact Fee required to fund Water Master Plan Capital Projects, up to $20,000 which is currently in the approved FY23 budget ***(not shown in Attachment 2).***

Task 2: Fire flow modeling assistance for existing buildings ($11,773.23)
- a. Determine the impact connecting to the CUWCD may have on the fire flow designs for up to 120 commercial buildings built prior to the city's recent fire flow limitation ordinance.
- b. Final report would include maps, tables, and figures along with results and recommendation(s) of actions needed to resolve issues.

Task 3: Provide System Operations Assistance for the new water tank, booster pump stations, and connections to the CUWCD system ($9,070.24)
- a. Provide operating assistance and hands on training during initial system commissioning and balancing.
- b. Revise draft systems operation plan, based on city staff questions and needs.

Task 4: Water system modeling for Vineyard City ($11,496.43)
- a. Support Engineering Department and Water Division staff to assist system functionality during Downtown Vineyard development and construction.

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VINEYARD RDA COUNCIL STAFF REPORT

Vineyard City Pipelines and Meter Station Design project ($66,403.64):
**** Note: Task costs include a 2% mark-up by HAL Engineering from JUB Engineering change order.***

This addendum is required for the City Water (Distribution) Line project as it allows the city to pay for services rendered for action needed to finalize designs and documents to obtain easements required to construct the Water Line project. The construction contract was awarded by City Council on June 29, 2002, Resolution 2022-25.

Task 1 (300-019): Design changes that were related to the Vineyard Connector Promenade Overpass bridge and 300 West Connection ($10,200.00*).

Task 2 (300-020): Additional easement work was required for the Vineyard City Water Line project ($11,220.00*).

Task 3 (300-021): Modifications made to the design at and after the 90% design of the Vineyard City Water Line ($10,553.54*).

Task 4 (300-022): Adjustment for wage increases due to additions to the project that resulted in extending the project beyond 2021 in which the project was anticipated to be designed ($7,910.10*).

a. This adjustment was a condition in the JUB Engineering portion of the original contract, see attachment 1.

Task 5 (300-023): For 1600 North Rd Water Line project design, scope changes, and coordination resulting from city directing to have a separate contractor perform this work ($8,160.00*).

a. The construction contract was awarded to ESP Construction by City Council on April 27, 2022, Consent item 7.2.

Task 6 (400-007): Additional level of effort that was completed during bidding resulting from the various issues listed in the JUB attachment as shown in attachment 3 ($18,360.00*).

Tasks that City Staff is <u>NOT</u> recommending the following tasks at this time.
Task 7 (500-015): Construction Engineering Inspection (CEI) services for the 1600 North portion of the Water Line project construction. This is due to duplicating or redundant efforts with two different contractors during construction ($73,538.94*).

Task 8 (500-016): Additional Construction Engineering Inspection (CEI) services during construction for the Phase 1 pipeline work to allow for lower construction costs, resulting from the City allowing additional construction time of the Water Line project construction contract than was originally estimated in the original scope of work ($360,114.06*).

VINEYARD
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VINEYARD RDA COUNCIL STAFF REPORT

Fiscal Impact:

Vineyard City 6MG Water Tank Design project

Current Contract Price	$353,340.00
Addendum No. 2	$62,772.12 (up to)
New Total	**$416,112.12**

Vineyard City Pipelines and Meter Station Design project

Current Contract Price	$523,867.00
Addendum No. 3	$66,403.64
New Total	**$590,270.64**

Recommendation:

Staff Recommends Approval of addendums for the Vineyard City 6MG Water Tank design AND Vineyard City Pipelines and Meter Station design at a total cost of $129,175.75

Sample Motion:

Motion to approve funds for the addendums to the Vineyard City Water Tank Design AND Vineyard City Pipelines and Meter Station Designs contracts as presented.

Attachments:

1. Water Tank project Design Draft Addendum No. 2
2. Vineyard City Pipelines and Meter Station Designs Addendum No. 3

VINEYARD
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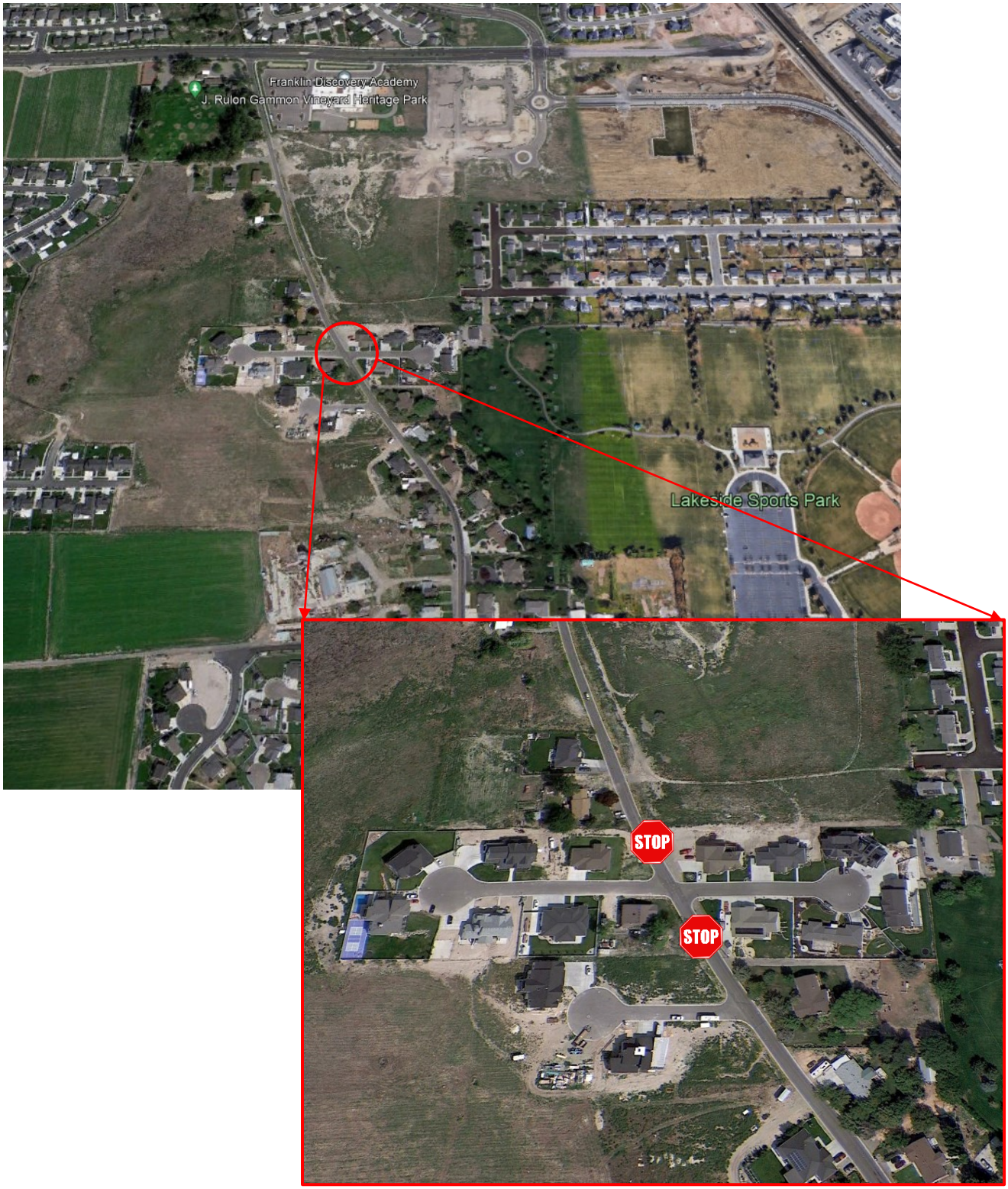
VINEYARD RDA COUNCIL STAFF REPORT

Aerial of S Holdaway Road and S 200 E Showing the proposed Stop Sign



HAL PROPOSAL SPREADSHEET

DRAFT

CLIENT: *Vineyard City*
PROJECT: *Master Plan, Fire, and Operations Assistance*

Pha	Task #	Task Activity	Billing Period	Hours: Manag Prof III MEA	Manag Prof II SCJ	Prof II	Prof I RJG	Surveying	Field Tech/CAD	Total Hours	Labor Costs	Expense Cost	Total HAL Cost	COMMENT
I	**Complete Master Plan**													
	100	Overbudget as of June 12, 2022	1	11.0			15.4			26.4	$4,220.90	158.40	$4,379.30	
	101	Update and package models	1				8.8			8.8	$1,096.22	52.80	$1,149.02	
	102	Update report	1	2.2			8.8			11	$1,556.72	66.00	$1,622.72	
	103	Address City comments and send new draft	1	1.1			4.4			5.5	$778.36	33.00	$811.36	Add Water Impact Fee determination, up to $20,000
	104	Present master plan to Council	1	3.3			6.6			9.9	$1,512.92	59.40	$1,572.32	
	105	Produce and send final report	1				2.2			2.2	$274.05	48.95	$323.00	
	106	Document and close out	1				4.4			4.4	$548.11	26.40	$574.51	
	199	Quality Control (QC) / Quality Assurance (QA)	1							0	$0.00	0.00	$0.00	
		SUBTOTAL HOURS/UNITS:		17.6	0	0	50.6	0	0	68.2				
		SUBTOTAL:		$3,684.03	$0.00	$0.00	$6,303.24	$0.00	$0.00		$9,987.27	$444.95	$10,432.22	Outside / Subconsultant Costs
II	**Fire Flow Modeling and Assistance for Existing Buildings**													
	200	Meetings and coordination - assume 2 in person	2	8.8			8.8			17.6	$3,173.29	185.55	$3,358.84	
	201	Model 120 sites and determine whether they do or do not meet the requested fire flow rate/pressure	2	2.2			33.0			35.2	$4,937.02	228.10	$5,165.12	Assumes modeling and reporting for all 120 buildings at the same time.
	202	Create maps summarizing results	2	1.1			8.8			9.9	$1,432.59	64.15	$1,496.74	
	203	Write a memo with tables describing sites that don't meet flows and state what is available	2	2.2			8.8			11	$1,681.26	71.28	$1,752.54	
	299	Quality Control (QC) / Quality Assurance (QA)	1							0	$0.00	0.00	$0.00	
		SUBTOTAL HOURS/UNITS:		14.3	0	0	59.4	0	0	73.7				
		SUBTOTAL:		$2,993.28	$0.00	$0.00	$7,399.46	$0.00	$0.00		$11,224.15	$549.08	$11,773.23	Outside / Subconsultant Costs
III	**System Operations Assistance**													
	300	Initial operations meeting to discuss future system	2	4.4	4.4		4.4			13.2	$2,487.15	121.29	$2,608.44	
	301	Update and send draft operations plan	2	1.1			2.2			3.3	$544.65	21.38	$566.03	
	302	Meet with City to discuss prior to system being commissioned	2	4.4	4.4		4.4			13.2	$2,487.15	121.29	$2,608.44	
	303	Answer questions and provide operational training when the system is being commissioned	2	8.8			8.8			17.6	$3,173.29	114.05	$3,287.34	
	399	Quality Control (QC) / Quality Assurance (QA)	1							0	$0.00	0.00	$0.00	
		SUBTOTAL HOURS/UNITS:		18.7	8.8	0	19.8	0	0	47.3				
		SUBTOTAL:		$3,914.28	$1,667.60	$0.00	$2,466.49	$0.00	$0.00		$8,692.24	$378.00	$9,070.24	Outside / Subconsultant Costs

Pha	Task #	Task Activity	Billing Period	Hours: Manag Prof III MEA	Manag Prof II SCJ	Prof II	Prof I RJG	Surveying	Field Tech/CAD	Total Hours	Labor Costs	Expense Cost	Total HAL Cost	COMMENT
IV	**Miscellaneous Modeling Tasks**													
	400	Respond to requests from City Personnel to perform miscellaneous modeling tasks.	2	8.8			66.0			74.8	$10,868.73	627.70	$11,496.43	
	499	Quality Control (QC) / Quality Assurance (QA)	1							0	$0.00	0.00	$0.00	
		SUBTOTAL HOURS/UNITS:		8.8	0	0	66	0	0	74.8				
		SUBTOTAL:		$1,842.02	$0.00	$0.00	$8,221.62	$0.00	$0.00		$10,868.73	$627.70	$11,496.43	Outside / Subconsultant Costs
		TOTAL HOURS BY EMPLOYEE:		59.4	8.8	0	195.8	0	0					

PHASE	TASK	Labor Costs	Direct Exp Cost	Subtotal	Subconsultant Costs	SubTotal
I	**Complete Master Plan**	$9,987.27	$444.95	$10,432.22	$0.00	$10,432.22
II	**Fire Flow Modeling and Assistance for Existing Buildings**	$11,224.15	$549.08	$11,773.23	$0.00	$11,773.23
III	**System Operations Assistance**	$8,692.24	$378.00	$9,070.24	$0.00	$9,070.24
	TOTAL:	$40,772.39	$1,999.73	$42,772.13	$0.00	$42,772.13

Filename: H:\Projects\319 - Vineyard\04.100 Drinking Water Master Plan\ADMIN\Scope and Budget\Budget request May 2022\[DRAFT_Vineyard DWMP budget increase estimate May 2022.xlsm]Data Entry - Straight Hours

HANSEN ALLEN & LUCE inc
ENGINEERS

SALT LAKE AREA OFFICE
859 W South Jordan Pkwy – Suite 200
South Jordan, Utah 84095
Phone: (801) 566-5599
www.hansenallenluce.com

Mr. Chris Wilson, P.E.
Public Works Director
City of Vineyard
125 S Main Street
Vineyard, Utah 84059

June 21, 2022

RE: Vineyard City Pipelines and Meter Station Designs
Budget Amendment No. 3 - Additional Services

Dear Mr. Wilson:

This document serves as Amendment 3 to Task Order 319.05.300 to Engineering Services Agreement (the Agreement) for the Vineyard City Pipelines and Meter Station Designs, dated the 23rd day of November, 2020.

This budget amendment request includes the following (see Attachment 1 from JUB for a more detailed description of each of these items):

1. Design changes related to the pedestrian bridge and 300 West Connection.
2. Additional easement work.
3. Modifications to the design at and after the 90% design had been completed.
4. Adjustment for wage increases due to additions to project that resulted in extending the project beyond 2021 in which the project was anticipated to be designed.
5. 1600 North design and scope changes and coordination resulting from having a separate contractor perform this work.
6. Additional level of effort during bidding resulting from the various issues listed in the JUB attachment.
7. Separating the 1600 North pipeline construction from the rest of the pipeline work, resulting in duplicated or redundant effort with two different contractors during construction.
8. Additional services during construction for the Phase I pipeline work resulting from allowing additional construction time in the construction contract than was originally assumed by Engineer. This resulted from discussions with bidders who indicated that providing a longer construction time period in today's construction climate would result in lower bids for the project.

Attached please find Attachment 1 from JUB which provides documentation regarding the modifications to their work and accompanying costs.

We propose a professional "not to exceed" engineering budget amendment of $401,171 for the extra work. The following table summarizes the estimated engineering fee required to accomplish this extra work.

ITEM	TASK DESCRIPTION	ENGINEERING FEE ESTIMATE
1	JUB Additional Costs (See Attachment 1)	$393,305.00
2	HAL 2% MARKUP*	$7,866.00
	Total Amendment No. 2 Fee	$401,171.00

- Note: HAL's normal markup on subconsultants is 10%. However, we are only adding 2% to this contract to cover costs associated with Professional Liability Insurance which is based upon our gross billings, including any subconsultant revenues.

Total Contract Price prior to this Amendment = $523,867.00
Amendment No. 3 Request = $401,171.00
Total Contract Price with Amendment = $925,038.00

Accepted by:

CLIENT:_____ HANSEN, ALLEN & LUCE, INC.

By: _____ By: _____

Its: _____ Its: _____

J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, Inc.
AGREEMENT FOR PROFESSIONAL SERVICES

Attachment 1 – Scope of Services, Basis of Fee, and Schedule

PROJECT NAME: Vineyard City Phase 1 Water Distribution Pipeline
CLIENT: Hansen, Allen & Luce (HAL) / Vineyard City
J-U-B PROJECT NUMBER: 50-20-059
CLIENT PROJECT NUMBER: Modification to HAL task order no. 319.50.300
ATTACHMENT TO AGREEMENT DATED: 11/20/2020

The referenced Agreement for Professional Services executed between J-U-B ENGINEERS, Inc. (J-U-B) and the CLIENT is amended and supplemented to include the following provisions regarding the Scope of Services, Basis of Fee, and/or Schedule:

PART 2 - PROJECT UNDERSTANDING

J-U-B's understanding of this project's history and CLIENT's general intent and scope of the project are described as follows:

The following changes are included in this modification:

A. Design changes related to the pedestrian bridge and 300 West connection
B. Additional easements work
C. Changes at 90% design
D. Adjustment for wage increases
E. 1600 North design and scope changes, coordination
F. Additional level of effort during bidding
G. 1600 North construction and post-construction engineering
H. Phase 1 distribution system construction and post-construction engineering
I. Deduction of previous construction and post construction engineering amount

Each of these changes is discussed in detail below.

PART 3 - SCOPE OF SERVICES BY J-U-B

J-U-B's Services under this Agreement are limited to the following tasks. Any other items necessary to plan and implement the project, including but not limited to those specifically listed in PART 3, are the responsibility of CLIENT.

A. Task 300, Sub Task 019: Design Changes Related to the Pedestrian Bridge and 300 West Connection

1. After completion of the 60% design in January 2022, it came to our attention that large pedestrian bridge was planned over Vineyard Connector just east of 300 West. We spent time in January and February redesigning the accommodate the structure. It involved in multiple rounds of evaluating alignments, exchanging files with UDOT's engineer, meetings, and design work before we settled on something that worked for UDOT and the City. It also included designing a 12" water line west from Vineyard Connector south of the future structure to connect to the 300 West line, replacing a planned connection further north, which required an additional plan and profile sheet.

B. Task 300, Sub Task 020: Additional Easements Work

1. The scope of work included preparing six easements, as noted in the written scope of work in the original agreement (task C-5). In the end, we prepared legal descriptions and sketches for 24

easements, including permanent easements and temporary construction easements. We anticipate preparing one conveying document for each property owner.

C. **Task 300, Sub Task 021: Changes At and After 90% Design**

1. The project was scoped as a water transmission line project, primarily along Vineyard Connector. At the 90% design review meeting the City asked us to add fire hydrants all long the Vineyard Connector line, which wasn't in the previous scope. We added approximately 35 fire hydrants to the design and plans.
2. At the 90% design review meeting the City also asked us to design connections from 400 North into the development to the south and from Center Street to the development to the North.
3. Shortly after the 90% design review meeting the City asked us to design two connections from Mill Road to developments to the east and modify the configuration of existing water lines in development to the east of Mill Road. They also requested that the project be extended to include the design of cutting in two 16" butterfly valves on Mill Road near Geneva Road.
4. The additions included considerable design and plan production time, adding three plan sheets to the set.

D. **Task 300, Subtask 022: Adjustment for Wage Increases**

1. Like businesses everywhere, J-U-B has experienced the effects of inflation and the need to pay our staff more.
   a. The Basis of Fee and Schedule of Services section of our original agreement documents addresses this potential, noting that if the period of services extends beyond 12 months the compensation amount may be appropriately adjusted. Coincidentally, on this project the 12-month period coincided with our billing rate adjustments - both happening at the beginning of 2022.
   b. The project was originally planned for around 8 to 10 months of preconstruction engineering, with preliminary (60%) design being the first 4 months. However, alignment changes occurred through the first 11 months of the project. These included alignments related to CUWCD connection points at 6 different locations and associated piping, as well as the addition of alignments on 1600 North, 400 North, and Mill Road. Preliminary design was not complete until 12 months into the project, with the 60% design review meeting occurring in January 2022. Even in February 2022, alignment changes were still occurring due to discussions related to the pedestrian overpass.
   c. At the beginning of the 2022, we had completed 60% of the project work, with 40% remaining. Since planned construction engineering is removed and replaced in an item below, we exclude it, then multiplied the anticipated time to be spent in 2022 for each team member by the difference in billing rates for each. It amounted to $7,755, which represents an increase of 10%.
   d. Other additions to the scope of work in this contract modification are not included in this calculation, as they already account for the higher wages.

E. **Task 300, Subtask 023: 1600 North Design and Scope Changes, Coordination**

1. Because the construction of 1600 North is imminent as a result of adjacent land development, the City decided earlier this year to separate that portion of the project and have the contractor constructing 1600 North build it. We spent time in February and March of this year coordinating with the City and the developer's engineer; changing the pipe material to HDPE (and changing the pipe size); modifying the design based on the developer's design changes; advancing the design to have it ready ahead of the rest of the project; adding fusible PVC pipe for railroad crossings to the plans, specs, and bid form (then replacing it with ductile iron again after the City decided they didn't want to consider fusible PVC pipe).
2. We initially understood that the City was just going to reimburse the developer for having his engineer install the 1600 North waterline from our plans. However, the City decided to contract directly with the developer's engineer for the waterline installation. They asked that we prepare full construction documents, including contract documents, specifications, and measurement and payment sections. The specifications and contract documents are very similar to the Phase 1

Distribution System documents. However, measurement and payment has provided to be challenging, since the City had already accepted a bid from the contractor, which did not contain all the same items as the plans, and may not have included everything required to complete the work. As of the date of this writing, our draft is still being reviewed by the City and the contractor.

F. **Task 400, Subtask 007: Additional Level of Effort During Bidding**

1. The level of effort planned for preparing for and conducting the pre-bid meeting, responding to questions and issue addenda, participating in the bid opening, reviewing submitted bids, preparing the bid tabulation, recommending award of the contract and prepare printed sets of contract documents for execution was about 40 hours. We expect it to take more like 136 hours. These unplanned factors have added substantially to the required level of effort:
   a. Bidding with multiple alternates and additives
   b. Researching UTA, UPRR, and RailPros requirements of the contractor and communicating it to the contractors
   c. Developing a method to reduce contractors' risk of variable UTA, UPRR, and RailPros fees and incorporating it into the contract
   d. Evaluating the potential impact of fittings and valves availability based on feedback from potential bidders, additional coordinating with Vineyard Connector project engineer regarding schedule, considering potential design changes to accommodate unavailable fittings and valves, and modifying the terms of the contract in response
   e. Evaluating contractor concerns about inflation impacts on material and fuel prices and modify the terms of the contract to further reduce risk

   These factors have resulted have increased the level of effort during the bidding period well beyond what was planned and what is typical.

G. **Task 500, Subtask 015: 1600 North Construction and Post-Construction Engineering**

1. The City has asked that we perform construction and post-construction engineering for the 1600 North to the same level as we typically do for projects. The attachment, "Standard Exhibit A – Construction Phase Services", outlines the services included in the scope of work.
2. In addition to site visits, we have planned for bi-weekly construction coordination meetings.
3. We have planned for about two months of active construction duration.

H. **Task 500, Subtask 016: Phase 1 Distribution System Construction and Post-Construction Engineering**

1. Given the size of the project, it became clear that the estimated hours for construction engineering were very inadequate to provide the level of service the City is looking for. Current construction engineering funding is $96,927, which would be less than 1% of the construction cost of the project. Landmark Excavating has told us they plan on 10 months of active construction. With a construction duration of 10 months, we estimate a cost of about $353,000, (which is still less than 3% of the bid construction cost). However, as you know, the cost of construction engineering can be heavily influenced by the nature and actions of the contractor.
2. The attachment, "Standard Exhibit A – Construction Phase Services", outlines the services included in the scope of work (the same activities as for 1600 North). Note that the time for activity #3 (visits to site and observation of construction) included in the work breakdown structure is 3 hours per day, 5 days per week, for 10 months of active construction.
3. In addition to site visits, we have planned for bi-weekly construction coordination meetings.
4. Submitting the application to DDW for the operating permit is included in this scope.
5. If construction duration is extended, we estimate that the additional cost for J-U-B's construction engineering services would be around $19,000 per month.

I. **Task 500, Subtask 001 - 014: Deduction of Previous Construction and Post-Construction Engineering Amount**

1. Since there is currently $96,927 in construction engineering funding that is being replaced by the more adequate amount in task 500, subtask 016, $96,927 is deducted from the construction engineering total.

PART 4 - CLIENT-PROVIDED WORK AND ADDITIONAL SERVICES

A. **CLIENT-Provided Work -** CLIENT is responsible for completing, or authorizing others to complete, all tasks not specifically included above in PART 2 that may be required for the project including, but not limited to:

1.

B. **Additional Services** - CLIENT reserves the right to add future tasks for subsequent phases or related work to the scope of services upon mutual agreement of scope, additional fees, and schedule. These future tasks, to be added by amendment at a later date as Additional Services, may include:

1.

PART 5 - BASIS OF FEE AND SCHEDULE OF SERVICES

A. CLIENT shall pay J-U-B for the identified Services in PART 2 as follows:

1. Time and Materials fees:
   a. For all services performed on the project, Client shall pay J-U-B an amount equal to the cumulative hours charged to the Project by each class of J-U-B's personnel times J-U-B's standard billing rates.
   b. Client shall pay J-U-B for Reimbursable Expenses times a multiplier of 1.1
   c. Client shall pay J-U-B for J-U-B's Consultants' charges times a multiplier of 1.1.
2. J-U-B may alter the distribution of compensation between individual tasks to be consistent with services actually rendered while not exceeding the total project amount.
3. The estimated fee includes a 6% rate increase (rounded to the nearest whole dollar) that will be in effect throughout the 2023 calendar year. This rate increase is fixed for this project in order to eliminate the variable of unknown future rate increases. The small amount of time spent in 2024 for the warrantee inspection will be billed at J-U-B standard rates current at the time.

B. CLIENT acknowledges that J-U-B will not be responsible for impacts to the schedule by actions of others over which J-U-B has no control.

C. The following table summarizes the fees and anticipated schedule for the services identified in PART 2.

Task & Subtask Number	Task Name	Fee Type	Amount	Anticipated Schedule
300-019	Design Changes Related to the Pedestrian Bridge and 300 West Connection	Time and Materials (Estimated Amount Shown)	$10,000	Four weeks beyond previous final design schedule
300-020	Additional Easements Work	Time and Materials (Estimated Amount Shown)	$11,000	Concurrent with work progress
300-021	Changes At and After 90% Design	Time and Materials (Estimated Amount Shown)	$10,327	Seven weeks beyond previous final design schedule
300-022	Adjustment for Wage Increases	Time and Materials (Estimated Amount Shown)	$7,755	Concurrent with work progress
300-023	1600 North Design and Scope Changes, Coordination	Time and Materials (Estimated Amount Shown)	$8,000	Three weeks beyond previous final design schedule

400-007	Additional Level of Effort During Bidding	Time and Materials (Estimated Amount Shown)	$18,000	Two weeks beyond previous bidding phase schedule
500-015	1600 North Construction and Post-Construction Engineering	Time and Materials (Estimated Amount Shown)	$72,097	Construction Engineering: July – October 2022 (Active construction from August 2022-September 2022) Post-Construction Engineering: Complete in October 2023 (after the warrantee inspection)
500-016	Phase 1 Distribution System Construction and Post-Construction Engineering	Time and Materials (Estimated Amount Shown)	$353,053	Construction Engineering: July 2022 – August 2023 (Active construction from August 2022 – June 2023 with 1 month of winter shutdown) Post-Construction Engineering: Complete in August 2024 (after the warrantee inspection)
500-017	Deduction of Previous Construction and Post-Construction Engineering Amount	Time and Materials (Estimated Amount Shown)	($96,927)	N/A
		Total:	**$393,305**	

NOTE on Coronavirus and Schedule*: J-U-B is committed to meeting your project schedule commitments as delineated above. As our response to the COVID-19 pandemic, J-U-B is engaging in safety procedures in help to protect clients, staff, their families, and the public. Our staff or offices may be subject to quarantine or other interruptions. Since COVID-19 impacts are beyond J-U-B's control, we are not responsible for the force majeure impacts to delivery timelines, or subsequent project delays and related claims, costs, or damages. Should circumstances related to the COVID-19 issue arise with J-U-B staff or in a J-U-B office that will impact our delivery schedule, we will notify you of the circumstances and mutually agree to a schedule adjustment.*

D. The above fees were developed from the attached work breakdown structure as Exhibit 1-A.

Exhibit(s):

- Exhibit 1-A: Work Breakdown Structure
- Standard Exhibit A: Construction Phase Services

For internal J-U-B use only:

PROJECT LOCATION (STATE): Utah

TYPE OF WORK: City

R&D: No

GROUP: Municipal

PROJECT DESCRIPTION(S)**:**

1. Municipal/Utility Engineering (203)
2. Construction Inspection/Observation (T02)

J-U-B ENGINEERS, Inc.
AGREEMENT FOR PROFESSIONAL SERVICES

J-U-B ENGINEERS, INC.

Standard Exhibit A – Construction Phase Services

Client Name: Hansen, Allen, & Luce **Project**: Vineyard 1600 N and Phase 1 Water System

The Agreement for Professional Services dated 11/20/2022 is amended and supplemented to include the following agreement of the parties with respect to Services during the construction phase of the Project.

For the purposes of this exhibit, 'Agreement for Professional Services' and 'the Agreement' shall refer to the document entitled 'Agreement for Professional Services,' executed between J-U-B and CLIENT to which this exhibit and any other exhibits have been attached.

For the purposes of this exhibit, the term 'Contract Documents,' shall be defined as documents that establish the rights and obligations of the parties engaged in construction and include the Construction Agreement between CLIENT and contractor, Addenda (which pertain to the Contract Documents), contractor's bid (including documentation accompanying the bid and any post-bid documentation submitted prior to the notice of award) when attached as an exhibit to the Construction Agreement, the notice to proceed, the bonds, appropriate certifications, the General Conditions, the Supplementary Conditions, the Specifications and the Drawings, together with all Written Amendments, Change Orders, Work Change Directives, Field Orders, and J-U-B's written interpretations and clarifications issued on or after the Effective Date of the Construction Agreement. Shop Drawings and the reports and drawings of subsurface and physical conditions are not Contract Documents.

For the purposes of this exhibit, the term 'Work,' shall be defined as the entire construction or the various separately identifiable parts thereof required to be provided by the construction contractor under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction; all as required by the Contract Documents.

For the purposes of this exhibit, the term 'Site,' shall be defined as lands or areas indicated in the Contract Documents as being furnished by CLIENT upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by CLIENT which are designated for the use of contractor.

CONSTRUCTION PHASE SERVICES

J-U-B shall provide Construction Phase Services as agreed below. There is a "Yes" and "No" box to the left of each Service. If a box is marked "Yes", J-U-B agrees to perform the Service listed. If a box is marked "No", J-U-B undertakes no duty to perform the Service listed. If a duty or a condition of performance is listed below that is a responsibility of CLIENT, CLIENT's agreement to perform the same is assumed.

It is understood and agreed that J-U-B shall not, during the performance of Services, or as a result of observations of the Work in progress, supervise, direct, or have control over contractor(s) Work; nor shall J-U-B have authority over or responsibility for the means, methods, techniques, sequences or procedures of construction selected by contractor(s), for safety precautions and programs incident to the Work of the contractor(s) or for any failure of contractor(s) to comply with laws, rules, regulations, ordinances, codes or orders applicable to contractor(s) furnishing and performing their Work or providing any health and safety precautions required by any regulatory agencies. Accordingly, J-U-B does not guarantee or warrant the performance of the construction contracts by contractor(s) nor assume responsibility of contractor(s) failure to furnish and perform their Work in accordance with the Contract Documents.

The CLIENT agrees that the general contractor shall be solely responsible for jobsite safety, and warrants that this intent shall be carried out in the CLIENT's contract with the general contractor. The CLIENT also agrees that the CLIENT, J-U-B and J-U-B's subconsultants shall be indemnified by the general contractor in the event of general contractor's failure to assure jobsite safety and shall be named as additional insureds under the general contractor's policies of general liability insurance.

NOTE on Coronavirus: *The contractor and contractor's COVID-19 Site Supervisor are responsible for full monitoring, compliance, and enforcement of the contractor's plan. J-U-'s review or other actions related to the contractor COVID-19 plan do not extend to the means, methods, techniques, sequences, or procedures of construction or to the safety precautions and programs incident thereto.*

J-U-B does not have authority over or responsibility for safety precautions (including the COVID-19 plan and compliance) related to the work of the contractor(s), or for any failure of contractor(s) to comply with applicable laws, rules, regulations, ordinances, codes, or orders. CLIENT agrees to indemnify, defend, and hold J-U-B harmless from any claims, damages, or costs associated with Contractor's site safety, including their COVID-19 compliance program.

Construction Phase

After receiving written authorization from CLIENT to proceed with the construction phase, J-U-B may provide the following Services with respect to this part of the Project:

☒ Yes ☐ No

1. *General Administration of the Contract Documents.* Consult with, advise, and assist CLIENT in J-U-B's role as CLIENT's representative. Relevant J-U-B communications with contractor shall be imputed to the CLIENT. Nothing contained in this Standard Exhibit A creates a duty in contract, tort, or otherwise to any third party; but, instead, the duties defined herein are performed solely for the benefit of the CLIENT. CLIENT shall agree to include this language in any such agreements it executes with contractor, subcontractors or suppliers.

☒ Yes ☐ No

2. *Pre-Construction Conference.* Participate in a pre-construction conference.

3. *Visits to Site and Observation of Construction / Resident Project Representative (RPR) Services.* In connection with observations of the Work while it is in progress:

☒ Yes ☐ No

a. Periodic Site Visits by J-U-B. Make visits to the Site at intervals appropriate to the various stages of construction, as J-U-B deems necessary, to observe as an experienced and qualified design professional the progress and quality of the Work. Such visits and observations, if any, are not intended to be exhaustive or to extend to every aspect of the Work or to involve detailed inspections of the Work beyond the responsibilities specifically assigned to J-U-B in this Agreement, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on J-U-B's exercise of professional judgment as assisted by the RPR, if any. Based on information obtained during such visits and observations, J-U-B will determine in general, for the benefit of CLIENT, if the Work is proceeding in accordance with the Contract Documents, and J-U-B shall keep CLIENT informed of the progress of the Work.

☐ Yes ☒ No

b. Resident Project Representative ("RPR"). When requested by CLIENT, provide the Services of a RPR at the Site to provide more extensive observation of the Work. Duties, responsibilities, and authority of the RPR, are as set forth in the section entitled Resident Project Representative, herein. Through more extensive observations of the Work and field checks of materials and equipment by RPR, J-U-B shall endeavor to provide further protection to the CLIENT against defects and deficiencies in the Work. The furnishing of such RPR's Services will not extend J-U-B's responsibilities or authority beyond the specific limits set forth elsewhere in this Agreement.

☒ Yes ☐ No

4. *Defective Work.* Recommend to CLIENT that the Work be disapproved and rejected while it is in progress if J-U-B believes that such Work does not conform generally to the Contract Documents or that the Work will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents.

☒ Yes ☐ No

5. *Clarifications and Interpretations; Field Orders.* Recommend to CLIENT necessary clarifications and interpretations of the Contract Documents as appropriate to the orderly completion of the Work. Such clarifications and interpretations will be consistent with the intent of and reasonably inferable from the Contract Documents. Based on J-U-B's recommendations, CLIENT may issue Field Orders authorizing minor variations from the requirements of the Contract Documents.

☒ Yes ☐ No

6. *Change Orders, and Work Change Directives.* Recommend to CLIENT Change Orders or Work Change Directives, as appropriate, and prepare required documents for CLIENT consideration. CLIENT may issue Change Orders or Work Change Directives authorizing variations from the requirements of the Contract Documents.

☒ Yes ☐ No

7. *Shop Drawings and Samples.* Review or take other appropriate action in respect to Shop Drawings, Samples, and other data that contractor is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Such reviews or other action shall not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto.

J-U-B's review or other actions related to the contractor COVID-19 plan do not extend to the means, methods, techniques, sequences, or procedures of construction or to the safety precautions and programs incident thereto.

☒ Yes
☐ No

8. *Substitutes.* Consult with and advise CLIENT concerning, and determine the acceptability of, substitute materials and equipment proposed by contractor.

☒ Yes
☐ No

9. *Inspections and Tests.* Make recommendations to CLIENT concerning special inspections or tests of the Work, and the receipt and review of certificates of inspections, testing, and approvals required by laws and regulations and the Contract Documents (but only to determine generally that the results certified indicate compliance with the Contract Documents).

☒ Yes
☐ No

10. *Disagreements between CLIENT and Contractor.* Assist CLIENT in rendering formal written decisions on claims of CLIENT and contractor relating to the acceptability of the Work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress of the Work. In assisting in such decisions, J-U-B shall not be liable in connection with any decision rendered in good faith.

☒ Yes
☐ No

11. *Applications for Payment.* Based on J-U-B's on-site observations as an experienced and qualified design professional, and upon written request of CLIENT, review Applications for Payment and the accompanying supporting documentation. Assist CLIENT in determining the amounts owed to contractor and, if requested by CLIENT, recommend in writing to CLIENT that payments be made to contractor in such amounts. Such recommendations of payment will constitute a representation to CLIENT that, to the best of J-U-B's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of such Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, and subject to any subsequent tests called for in the Contract Documents or to any other qualification stated in the recommendation), and the conditions precedent to contractor's being entitled to such payments appear to have been fulfilled insofar as it is J-U-B's responsibility to observe the Work. In the case of unit price Work, J-U-B's recommendation of payment will include final determinations of quantities and classifications of the Work (subject to any subsequent adjustments allowed by the Contract Documents). By recommending any payment and after reasonable inquiry, J-U-B shall not thereby be deemed to have represented that exhaustive, continuous, or detailed reviews or examinations have been made by J-U-B to check the quality or quantity of the Work as it is furnished and provided beyond the responsibilities specifically assigned to J-U-B in this Agreement and the Contract Documents. J-U-B's review of the Work for the purposes of recommending payments will not impose on J-U-B the responsibility to supervise, direct, or control such Work, or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto, or contractor's compliance with laws and regulations applicable to its furnishing and performing the Work. J-U-B's review will also not impose responsibility on J-U-B to make any examination to ascertain how or for what purposes contractor has used monies paid to contractor by CLIENT; to determine that title to any of the Work, including materials or equipment, has passed to CLIENT free and clear of any lien, claims, security interests, or encumbrances; or that there may not be other matters at issue between CLIENT and contractor that might affect the amount that should be paid.

☒ Yes
☐ No

12. *Contractor's Completion Documents.* Receive and review maintenance and operating instructions, schedules, guarantees, bonds and certificates of inspection, tests and approvals, Shop Drawings, Samples, other data approved, and the annotated record documents which are to be assembled by contractor in accordance with the Contract Documents (such review will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspection, tests, or approvals indicates compliance with, such Contract Documents); transmit them to CLIENT with written comments.

☒ Yes
☐ No

13. *Substantial Completion.* Promptly after notice from CLIENT that contractor considers the Work for this part of the Project is ready for its intended use, in company with CLIENT and contractor, conduct a site visit to determine if the Work is substantially complete. Provide recommendation to CLIENT relative to issuance of Certificate of Substantial Completion.

☒ Yes
☐ No

14. *Final Notice of Acceptability of the Work.* Assist CLIENT in conducting a final inspection to determine if the completed Work is acceptable so that J-U-B may recommend, in writing, that final payment be made to contractor.

☒ Yes
☐ No

15. *Additional Tasks.* Perform or provide the following additional construction phase tasks or deliverables as delineated in Attachment 1 – Scope of Services and/or Schedule and/or Basis of Fee, which is included with the Agreement.

General Limitation of Responsibilities. J-U-B shall not be responsible for the acts or omissions of any contractor or of any of their subcontractors, suppliers, or any other individual or entity performing or furnishing any of the Work. J-U-B shall not be responsible for failure of any contractor to perform or furnish the Work in accordance with the Contract Documents. CLIENT shall agree to include this language in any such agreements it executes with contractor, subcontractors or suppliers.

J-U-B's Construction Phase Services will be considered complete on the date of Final Notice of Acceptability of the Work.

Post-Construction Phase

After receiving authorization from CLIENT to proceed with the post-construction phase, J-U-B may:

☐ Yes
☒ No

1. *Testing/Adjusting Systems.* Provide assistance in connection with the testing and adjusting of equipment or systems.

☐ Yes
☒ No

2. *Operate/Maintain Systems.* Assist CLIENT in coordinating training for CLIENT's staff to operate and maintain equipment and systems.

☐ Yes
☒ No

3. *Control Procedures.* Assist CLIENT in developing procedures for control of the operation and maintenance of, and recordkeeping for, equipment and systems.

☒ Yes
☐ No

4. *O&M Manual.* Assist CLIENT in preparing operating, maintenance, and staffing manuals.

☒ Yes
☐ No

5. *Defective Work.* Together with CLIENT, visit the Project to observe any apparent defects in the Work, assist CLIENT in consultations and discussions with contractor concerning correction of any such defects, and make recommendations as to replacement or correction of Defective Work, if present.

☐ Yes
☒ No

6. *Record Surveying.* Provide field surveying of readily accessible elements of the final completed construction to supplement the preparation of Record Drawings.

☒ Yes
☐ No

7. *Record Drawings.* Furnish a set of reproducible prints of Record Drawings showing significant changes made during the construction process, based on the annotated record documents for the Project furnished by the contractor.

☒ Yes
☐ No

8. *Warrantee Inspection.* In company with CLIENT or CLIENT's representative, provide an inspection of the Project within one month before the end of the contractor correction period to ascertain whether any portion of the Work is subject to correction.

☐ Yes
☒ No

9. *Additional Tasks.* Perform or provide the following additional post-construction phase tasks or deliverables as listed in Attachment 1 - Scope of Services and/or Schedule and/or Basis of Fee, which is included with the Agreement.

The Post-Construction Phase Services may commence during the construction phase and, if not otherwise modified by the mutual agreement of CLIENT and J-U-B, will terminate at the end of the correction period.

CONSTRUCTION PHASE ADDITIONAL SERVICES

If authorized by CLIENT and expressly agreed by J-U-B; or, if performed by J-U-B with the knowledge of the CLIENT after the signing of the Agreement for Professional Services, J-U-B shall furnish or obtain from others Additional Services of the types listed in this paragraph:

1. Services in connection with Work Change Directives and Change Orders to reflect changes requested by CLIENT if the resulting change in compensation for Construction Phase Services is not commensurate with the Services rendered; Services in making revisions to Drawings and Specifications occasioned by the acceptance of substitutions proposed by contractor and Services after the award of the contract; Services in evaluating and determining the acceptability of an unreasonable or excessive number of substitutions proposed by contractor; and Services resulting from significant delays, changes, or price increases occurring as a direct or indirect result of material equipment, or energy shortages.

2. Services involving out-of-town travel required of J-U-B other than visits to the Site or CLIENT's office.

3. Assistance in connection with bid protests, rebidding, or renegotiating the Construction Agreement.

4. Services in connection with any partial utilization of the Work by CLIENT prior to Substantial Completion.

5. Additional or extended Services during construction of the Work made necessary by (a) emergencies or acts of God endangering or delaying the Work, (b) the discovery of constituents of concern, (c) Work damaged by fire or other cause during construction, (d) a significant amount of defective Work, (e) acceleration of the progress schedule involving Services beyond normal working hours, and (f) default by contractor, including extensions of the construction period.

6. Evaluating an unreasonable number of claims submitted by contractor or others in connection with the Work.

7. Protracted or extensive assistance in refining and adjusting any equipment or system (such as initial startup, testing, adjusting, and balancing).

8. Services or consultations after completion of the construction phase, such as excessive inspections during any correction period and reporting observed discrepancies under guarantees called for in the Construction Agreement for the Work (except as agreed to under Construction Phase Services).

9. Preparing to serve or serving as a consultant or witness for CLIENT in any litigation, arbitration, or other legal or administrative proceeding involving the Project to which J-U-B has not been made a party.

10. Additional Services in connection with the Work, including Services which are to be furnished by CLIENT and Services not otherwise provided for in this Agreement.

RESIDENT PROJECT REPRESENTATIVE

If provided as part of Construction Phase Services, J-U-B shall furnish a Resident Project Representative ("RPR"), assistants, and other field staff to assist J-U-B in observing progress and quality of the Work. The RPR, assistants, and other field staff may provide full-time representation or may provide representation to a lesser degree.

Through such additional observations of the Work and field checks of materials and equipment by the RPR and assistants, J-U-B shall endeavor to provide further protection for CLIENT against defects and deficiencies in the Work. It is understood and agreed that J-U-B shall not, during the performance of Services, or as a result of observations of the Work in progress, supervise, direct, or have control over contractor(s)' Work; nor shall J-U-B have authority over or responsibility for the means, methods, techniques, sequences or procedures of construction selected by contractor(s), for safety precautions and programs incident to the Work of the contractor(s) or for any failure of contractor(s) to comply with laws, rules, regulations, ordinances, codes or orders applicable to contractor(s) furnishing and performing their Work or providing any health and safety precautions required by any regulatory agencies. Accordingly, J-U-B does not guarantee or warrant the performance of the construction contracts by contractor(s) nor assume responsibility of contractor(s)' failure to furnish and perform their Work in accordance with the Contract Documents.

The RPR's duties under this Agreement shall be strictly limited to the following:

1. *General.* RPR is J-U-B's agent at the Site, will act as directed by and under the supervision of J-U-B, and will confer with J-U-B regarding RPR's actions.

2. *Schedules.* Review the progress schedule, schedule of Shop Drawing and Sample submittals, and schedule of values prepared by contractor and consult with CLIENT concerning acceptability of such schedules.

3. *Conferences and Meetings.* When requested by CLIENT to do so, attend meetings with contractor, such as preconstruction conferences, progress meetings, job conferences, and other project-related meetings.

4. *Liaison.* Serve as J-U-B's liaison with CLIENT.

5. *Interpretation of Contract Documents.* Report to CLIENT when clarifications and interpretations of the Contract Documents are needed.

6. *Shop Drawings and Samples.* Receive and record date of receipt of reviewed Samples and Shop Drawings.

7. *Modifications.* Consider and evaluate contractor's suggestions for modifications to Drawings or Specifications and report, with RPR's recommendations, to CLIENT. Transmittal to contractor of written decisions as issued by J-U-B will be in writing.

8. *Review of Work and Rejection of Defective Work.*

   a) Conduct on-site observations of the Work to assist J-U-B in determining if the Work is, in general, proceeding in accordance with the Contract Documents.

   b) Report to CLIENT whenever RPR believes that any part of the Work in progress will not produce a completed Project that conforms generally to the Contract Documents or will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents; has been damaged; or does not meet the requirements of any inspection, test, or approval required to be made. Advise CLIENT of that part of the Work that RPR believes should be corrected, rejected, or uncovered for observation, or that requires special testing, inspection, or approval**.**

9. *Inspections, Tests, and System Startups.*

   a) Advise CLIENT in advance of scheduled major inspections, tests, and system start-ups for important phases of the Work.

   b) Verify that tests, equipment, and system start-ups and operating and maintenance training is conducted in the presence of appropriate personnel and that contractor maintain adequate records thereof.

   c) Observe, record, and report to CLIENT appropriate details relative to the test procedures and system start-ups.

   d) Accompany visiting inspectors representing public or other agencies having jurisdiction over the Work, record the results of these inspections, and report to CLIENT.

10. Records.

   a) Maintain at the Site orderly files for correspondence, reports of job conferences, reproductions of original Contract Documents including all Change Orders, Field Orders, Work Change Directives, Addenda, additional Drawings issued subsequent to the execution of the Contract, J-U-B's clarifications and interpretations of the Contract Documents, progress reports, Shop Drawing and Sample submittals, and other Project-related documents.

   b) Prepare a daily report or keep a diary or log book, recording contractor's and subcontractors' hours on the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; furnish copies of such records to CLIENT.

   c) Maintain accurate, up-to-date lists of the names, addresses, e-mail addresses, and telephone numbers of all contractors, subcontractors, and major suppliers of materials and equipment.

   d) Maintain records for use in preparing documentation of the Work.

   e) Upon completion of the Work with respect to the Project, furnish a complete set of all RPR Project documentation to CLIENT.

11. *Reports.*

   a) Furnish to CLIENT periodic reports as required of progress of the Work and of contractor's compliance with the progress schedule and schedule of Shop Drawing and Sample submittals.

   b) Present to CLIENT proposed Change Orders, Work Change Directives, and Field Orders.

   c) Furnish to CLIENT copies of all inspection, test, and system startup reports.

   d) Report immediately to CLIENT the occurrence of any Site accidents, emergencies, acts of God endangering the Work, property damaged by fire or other causes, and the discovery or presence of any constituents of concern.

12. *Payment Request:* Review Applications for Payment for compliance with the established procedure for their submission and forward with recommendations to CLIENT, noting particularly the relationship of the payment requested to the schedule of values, Work completed, and materials and equipment delivered at the Site, but not incorporated in the Work.

13. *Certificates, Operation and Maintenance Manuals.* During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals, and other data required by the Specifications to be assembled and furnished

by contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to CLIENT for review.

14. *Completion.*

    a) Before issuing a Certificate of Substantial Completion, submit to CLIENT a list of observed items requiring completion or correction.

    b) Observe whether contractor has arranged for inspections required by laws and regulations, including but not limited to those to be performed by public agencies having jurisdiction over the Project.

    c) Participate in a final inspection in the company of CLIENT and contractor and prepare a final list of items to be completed or corrected with respect to the Work.

    d) Observe whether all items on final list have been completed or corrected and make recommendations to CLIENT concerning acceptance and issuance of CLIENT's Final Notice of Acceptability of the Work.

The RPR shall not:

1. Authorize any deviation from the Contract Documents or substitution of materials or equipment (including "or-equal" items).

2. Exceed limitations of J-U-B's authority as set forth in the Agreement for Professional Services .

3. Undertake any of the responsibilities of contractor, subcontractors, suppliers, or contractor's superintendent.

4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences, or procedures of construction or of the Work, unless such advice or directions are specifically required by the Contract Documents.

5. Advise on, issue directions regarding, or assume control over safety practices, precautions, and programs in connection with the activities or operations of CLIENT or contractor.

6. Participate in specialized field or laboratory tests or inspections conducted by others, except as specifically authorized.

7. Accept Shop Drawing or Sample submittals from anyone other than J-U-B.

8.. Authorize CLIENT to occupy the Work in whole or in part.

CLIENT'S RESPONSIBILITIES

Except as otherwise provided herein or in the Agreement for Professional Services, CLIENT shall do the following in a timely manner so as not to delay the Services of J-U-B and shall bear all costs incident thereto:

1. Provide, as may be required for the Project, such legal services as CLIENT may require or J-U-B may reasonably request with regard to legal issues pertaining to the Project, including any that may be raised by contractor.

2. Attend the pre-bid conference, bid opening, pre-construction conferences, construction progress and other job-related meetings and Substantial Completion, final payment, and other inspections.

3. Give prompt written notice to J-U-B whenever CLIENT observes or otherwise becomes aware of any development that affects the scope or time of performance or furnishing of J-U-B's Services, or any defect or nonconformance in J-U-B's Services or in the Work of any contractor.

4. Render all final decisions related to: 1) changes or modifications to the terms of the construction contract, 2) acceptability of the Work, and 3) claims or Work stoppages.

5. Unless included in J-U-B Scope of Services, provide construction staking and materials testing services for the project.

The Client agrees to require all contractors of any tier to carry statutory Workers Compensation, Employers Liability Insurance and appropriate limits of Commercial General Liability Insurance (CGL). The Client further agrees to require all contractors to have their CGL policies endorsed to name the Client, the Consultant and its sub-consultants as Additional insureds, on a primary and noncontributory basis, and to provide Contractual Liability coverage sufficient to insure the hold harmless and indemnity obligations assumed by the contractors. The Client shall require all contractors to furnish to the Client and the Consultant certificates of insurance as evidence of the required insurance prior to commencing work and upon renewal of each policy during the entire period of construction. In addition, the Client shall require that all contractors will, to the fullest extent permitted by law, indemnify and hold harmless the Client, the Consultant and its sub consultants from and against any damages, liabilities or costs, including reasonable attorneys' fees and defense costs, arising out of or in any way connected with the Project, including all claims by employees of the contractors.

INDEMNIFICATION

In addition to any other limits of indemnification agreed to between the Parties, CLIENT agrees to indemnify and hold harmless J-U-B, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work. This is to include, but not to be limited to any such claim, cost, loss, or damage that is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property, including the loss of use resulting therefrom to the extent caused by any negligent act or omission of contractor, any subcontractor, any supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable, as well as any general, special or other economic damages resultant from Work stoppages or delays that are caused in whole or part by J-U-B's exercise of the rights and duties as agreed herein (Construction Phase Services).

CLIENT agrees that CLIENT will cause to be executed any such agreements or contracts with contractors, subcontractors or suppliers to effectuate the intent of this part before any Work is commenced on the Project; if CLIENT negligently fails to do so, CLIENT agrees to fully indemnify J-U-B from any liability resulting therefrom, to include, but not to be limited to, all costs relating to tendering a defense to any such claims made.

EXHIBIT 1-A: WORK BREAKDOWN STRUCTURE

BASIS OF FEE ESTIMATE

J-U-B ENGINEERS, INC. | THE LANGDON GROUP | GATEWAY MAPPING INC.
J-U-B FAMILY OF COMPANIES

Project Title, Client: Vineyard Phase 1 Water Distribution Pipeline - Contract Mod 3, Vineyard City
Project Number: 50-20-059
Prepared By: Mark L. Christensen
Updated: **6/20/2022**

Task Number	Subtask Number	Task/Subtask Name / Activity Description	Project Engineer - Discipline Lead	Project Engineer I	CAD Designer - Senior	Senior Construction Manager	Senior Administrative Support	PLS - Discipline Lead	PLS - Lead	Project Engineer I	Project Engineer - Lead	Hours	Dollars
300		**Final Design and Complete Bidding Documents**	**27**	**46**	**99**	**17**		**5**	**46**			**240**	**$47,082**
300	**019**	**Design Changes Related to Ped Bridge & 300 W Connection**	**3**	**18**	**33**	**9**						**63**	**$10,000**
		All Activities	3	18	33	9						63	$10,000
300	**020**	**Additional Easements Work**	**2**		**18**			**4**	**44**			**68**	**$11,000**
		All Activities	2		18			4	44			68	$11,000
300	**021**	**Changes at and after 90% Design**	**11**	**9**	**41**			**1**	**2**			**64**	**$10,327**
		At 90% Design - Deisgn Scoping/correspondence	2		1							3	$585
		At 90% Design - Connections to Lincoln Square & Concord and adding valves throughout	1	1	20							22	$3,280
		At 90% Design - Internal Review & Edits	1	1	2							4	$670
		At 90% Design - City Review & Edits	1	1	1							3	$525
		At 90% Design - Final Review & Edits		1	1							2	$305
		After 90% Design - Scoping/correspondence	2	1								3	$600
		After 90% Design - Off-site Mill Road connections and valves	2	1	10							13	$2,050
		After 90% Design - Internal Review & Edits	1	1	2							4	$670
		After 90% Design - City Review & Edits	1	1	2							4	$670
		After 90% Design - Final Review & Edits		1	2							3	$450
		After 90% Design - Easements (1)						1	2			3	$522
300	**022**	**Adjustment for Wage Increases for Hours Through Contract Mod 2 To Be Spent After 1/1/2022**											**$7,755**
		Adjustment for Hours Through Contract Mod 2 To Be Spent After 1/1/2022											$7,755
300	**023**	**1600 North Design and Scope Changes, Coordination**	**11**	**19**	**7**	**8**						**45**	**$8,000**
		Design changes from 1600 North (all activities)	1	6	5	6						18	$3,050
		Scoping/correspondence	2	1		2						5	$980
		Prepare contract documents	2	2								4	$760
		Prepare specifications	2	4								6	$1,080
		Assistance with contract execution and notice to proceed	3	4								7	$1,300
		Prepare conformed construction package	1	2	2							5	$830
400		**Bidding Support Services**	**32**	**40**		**24**						**96**	**$18,000**
400	**007**	**Additional Level of Effort During Bidding**	**32**	**40**		**24**						**96**	**$18,000**
		Additional level of effort during bidding	32	40		24						96	$18,000
500		**Construction and Post-Construction Engineering**	**112**	**218**	**102**	**1724.5**	**72**				**32**	**2261**	**$328,223**
500	**015**	**1600 North Construction and Post Construction Engineering**	**31**	**56**	**22**	**264.5**	**16**				**8**	**398**	**$72,097**
		General Administration of the Contract Documents	2	8		1						11	$1,910
		Pre-Construction Conference	2	4		8						14	$2,600
		Visits to Site and Observation of Construction	3	3		97.5					8	112	$21,321
		Recommendations Regarding Defective Work	1	1		8						10	$1,900
		Clarifications and Interpretations; Field Orders	2	4	4	16						26	$4,700
		Work Change Directives	2	3		12						17	$3,200
		Change Orders	2	3		8	4					17	$2,744
		Review Submittals	2	3		8						13	$2,440
		Advise on Requested Substitutes	2	2		6						10	$1,900
		Recommend Tests and Review Test Results	2	2		14						18	$3,420

EXHIBIT 1-A: WORK BREAKDOWN STRUCTURE

BASIS OF FEE ESTIMATE

J-U-B ENGINEERS, INC. | THE LANGDON GROUP | GATEWAY MAPPING INC. | J-U-B FAMILY OF COMPANIES

Project Title, Client: Vineyard Phase 1 Water Distribution Pipeline - Contract Mod 3, Vineyard City
Project Number: 50-20-059
Prepared By: Mark L. Christensen
Updated: **6/20/2022**

Task Number	Subtask Number	Task/Subtask Name / Activity Description	Project Engineer - Discipline Lead	Project Engineer I	CAD Designer - Senior	Senior Construction Manager	Senior Administrative Support	PLS - Discipline Lead	PLS - Lead	Project Engineer I	Project Engineer - Lead	Hours	Dollars
		Assist with Disagreements Between Owner and Contractor	4	4		4						12	$2,280
		Recommendations for Payment	1	2		16	12					31	$4,492
		Review Contractor's Completion Documents	1	2		8						11	$2,060
		Evaluation of Substantial Completion	1	2		12						15	$2,820
		Evaluation of Final Completion	1	2		6						9	$1,680
		Bi-weekly Coordination Meeting `		4		12						16	$2,920
		Warrantee Inspection				8						8	$1,520
		Assist Owner in Preparing O&M Manual	1	1	4	4						10	$1,720
		Address Work Discovered to be Defective	1	2		8						11	$2,060
		Record Drawings from Contractor Redlined Documents	1	4	14	8						27	$4,410
500	**016**	**Phase 1 Distribution System Construction and Post-Construction Engineering**	**81**	**162**	**80**	**1460**	**56**				**24**	**1863**	**$353,053**
		General Administration of the Contract Documents	6	24		4						34	$6,106
		Pre-Construction Conference	4	8		16					4	32	$6,112
		Visits to Site and Observation of Construction	20	20		650					20	710	$139,480
		Recommendations Regarding Defective Work	1	2		32						35	$6,829
		Clarifications and Interpretations; Field Orders	1	2	12	48						63	$11,753
		Work Change Directives	3	6		48						57	$11,079
		Change Orders	3	6		96	24					129	$22,359
		Review Submittals	8	15		90						113	$21,931
		Advise on Requested Substitutes	1	1		32						34	$6,664
		Recommend Tests and Review Test Results	4	4		86						94	$18,424
		Assist with Disagreements Between Owner and Contractor	16	16		32						64	$12,544
		Recommendations for Payment	3	6		96	32					137	$22,983
		Review Contractor's Completion Documents	1	2		12						15	$2,909
		Evaluation of Substantial Completion	2	4		32						38	$7,386
		Evaluation of Final Completion	1	2		32						35	$6,829
		Bi-weekly Coordination Meeting `	2	22		66						90	$17,520
		Submit for Operating Permit to DDW	1	4								5	$887
		Assist Owner in Preparing O&M Manual	1	4	14	32						51	$9,245
		Address Work Discovered to be Defective	1	2		16						19	$3,693
		Record Drawings from Contractor Redlined Documents	2	12	54	24						92	$15,184
		Warrantee Inspection				16						16	$3,136
500	**017**	**Deduction of Previous Construction and Post-Construction Engineering Amount**											**-$96,927**