

NOTICE OF A VINEYARD CITY COUNCIL MEETING August 10, 2022, at 5:00 PM

PUBLIC NOTICE is hereby given that the Vineyard City Council will hold a regularly scheduled meeting on Wednesday, August 10, 2022, at 5:00 p.m. at City Hall, 125 South Main Street, Vineyard, Utah. This meeting can also be viewed on our <u>live stream page</u>.

AGENDA

Presiding Mayor Julie Fullmer

1. 5:00 PM - JOINT SITE VISIT - Holdaway Fields East Park

Community Development Director Morgan Brim will take the City Council and Planning Commission on a site visit of the property where the east park will be located. (Participants will meet at the dead end on 400 South, see attached map.)

2. CALL TO ORDER/INVOCATION/INSPIRATIONAL THOUGHT/PLEDGE OF ALLEGIANCE – to be announced.

3. WORK SESSION

3.1 Safe Streets For All (SS4A)

City Engineer Naseem Ghandour will lead a discussion regarding the Federal SS4A program, which supports safer roadways, and its impacts to Vineyard City.

4. PUBLIC COMMENTS

(15 minutes)

"**Public Comments**" is defined as time set aside for citizens to express their views <u>for items</u> <u>not on the agenda</u>. Each speaker is limited to three minutes. Because of the need for proper public notice, immediate action **cannot** be taken in the Council Meeting. If action is necessary, the item will be listed on a future agenda, however, the Council may elect to discuss the item if it is an immediate matter of concern.

Public comments can be submitted ahead of time to pams@vineyardutah.org.

5. MAYOR AND COUNCILMEMBERS' REPORTS/DISCLOSURES/RECUSALS

6. STAFF, COMMISSION, AND COMMITTEE REPORTS

(3 minutes each)

- 6.1 City Manager Ezra Nair
- 6.2 Planning Commission Chair Bryce Brady

7. CONSENT ITEMS

- 7.1 Approval of the July 15, 2022, City Council Work Session
- 7.2 Approval of the July 27, 2022, City Council Meeting Minutes
- 7.3 Approval of the Cottonwoods POD 6, Phase 5 Final Subdivision Plat
- 7.4 Approval of the Vineyard City Pipelines and Meter Station project amendment
- **7.5** Approval of the Bid award for Road Striping (Resolution 2022-36)
- 7.6 Approval of a Staffing Plan Adjustment in the Finance Department
- 7.7 Approval of the FrontRunner Grand Opening Celebration Special Event Permit

8. APPOINTMENTS

8.1 Vineyard Planning Commission

With the advice and consent of the City Council, Mayor Fullmer will appoint Tay Gudmunson as a sitting Planning Commissioner, remove existing alternate members, and will potentially appoint additional members.

8.2 Vineyard Bicycle Commission

With the advice and consent of the City Council, Mayor Fullmer will appoint members to the Vineyard Bicycle Commission.

9. PRESENTATIONS/RECOGNITIONS/AWARDS

No items were submitted.

10. BUSINESS ITEMS

10.1 DISCUSSION AND ACTION – <u>Sewer Line Rapid Assessment Tool (SL-RAT) Bid</u> Award (Resolution 2022-37) (5 minutes)

Chris Wilson will present a recommendation for the bid award for acoustic assessment of the sewer lines to RH Borden and Company LLC. The mayor and City Council will take appropriate action.

10.2 DISCUSSION AND ACTION – Housing and Transit Reinvestment Zones (HTRZ) (15 minutes)

City Manager Ezra Nair will present a Housing and Transit Reinvestment Zone request to move forward with an application to the Governor's Office of Economic Opportunity. The mayor and City Council will take appropriate action.

11 CLOSED SESSION

The Mayor and City Council pursuant to Utah Code 52-4-205 may vote to go into a closed session for the purpose of (these are just a few of the items listed, see Utah Code 52-4-205 for the entire list):

- (a) discussion of the character, professional competence, or physical or mental health of an individual
- (b) strategy sessions to discuss collective bargaining
- (c) strategy sessions to discuss pending or reasonably imminent litigation
- (d) strategy sessions to discuss the purchase, exchange, or lease of real property, including any form of a water right or water shares
- (e) strategy sessions to discuss the sale of real property, including any form of a water right or water shares
- (f) discussion regarding deployment of security personnel, devices, or systems;

(g) the purpose of considering information that is designated as a trade secret, as defined in Section <u>13-24-2</u>, if the public body's consideration of the information is necessary in order to properly conduct a procurement under <u>Title 63G</u>, <u>Chapter 6a</u>, <u>Utah</u> <u>Procurement Code</u>;

12 ADJOURNMENT

The next meeting is on Wednesday, August 24, 2022.

This meeting may be held in a way that will allow a councilmember to participate electronically. The Public is invited to participate in all City Council meetings. In compliance with the Americans with Disabilities Act, individuals needing special accommodations during this meeting should notify the City Recorder at least 24 hours prior to the meeting by calling (801) 226-1929.

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

AGENDA NOTICING COMPLETED ON: August 9, 2022

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



	STAY CONNECTED
1 2	MINUTES OF A CITY COUNCIL WORK SESSION
2 3	Flagship Homes' Headquarters Conference Room
4	300 S 1350 E St Floor 2, Lehi, Utah 84043
5	July 15, 2022, at 11:36 AM
6	
7	Present Absent
8	Mayor Julie Fullmer (via Zoom)
9	Councilmember Tyce Flake
10	Councilmember Amber Rasmussen
11	Councilmember Mardi Sifuentes
12	Councilmember Cristy Welsh
13 14	Staff Present: City Manager Ezra Nair, Community Development Director Morgan Brim,
14	City Engineer Naseem Ghandour, and Sullivan Love
16	
17	Others Speaking: Pete Evans, Nate Hutchings, and Bronson Tatton with Flagship Homes;
18	Jeffery Woodbury, Joe Rich, and McKinnon Woodbury with Woodbury Corporation
19	
20	NTN
21	City Manager Ezra Nair opened the meeting at 11:36 AM.
22	
23	1. Discuss plans and challenges for the East Geneva Property (East of the Downtown,
24	North of 800 N) to begin to align priorities for this property.
25	
26	There was a brief discussion about the Geneva Nitrogen property.
27	
28 29	2. Discussion regarding Flagship properties.
29 30	2. Discussion regarding tragsinp properties.
31	There was a discussion about master planning the East Geneva property. Mr. Evans
32	mentioned that he had hired a consultant to work with Jeff Speck on the eastside property.
33	
34	There was a discussion about possibly having 1200 North go over the railroad tracks to
35	help with pedestrian accessibility.
36	
37	The discussion about the master plan continued.
38	1
39	Mayor Fullmer asked about the timeline for the plans to be available. She mentioned that
40	the city's timeline was rapid and that they didn't want to double up on planning. She asked if
41	they could synchronize their efforts. Mr. Hutchings replied that they were hoping to get ideas
42	from the city and take them to their planner. There was a discussion about the timeline.
43	NC TA
44	Mr. Brim asked if the city wanted to hire a consultant. Mayor Fullmer replied that they
45	should. The timeline discussion continued.

Page 1 of 2; July 15, 2022, City Council Work Session Minutes

46 47	Mr. Evans mentioned that there were parts of the east side that would take longer to develop than others. He said that they were trying to figure the best uses for the property and
48	would have to get Department of Environmental Quality approval before they could move
49	forward. He said that they were trying to figure out which property they could start developing.
50 51	There was a discussion about the quality of the land.
52	Mr. Brim suggested using an innovation planner. Mr. Hutchins mentioned that they were
53	going to get the Utah Valley University (UVU) involved. There was a discussion about
54	possible development around the UVU property.
55	
56	Councilmember Welsh requested that members from the Boyer Group and Martin Snow be
57	invited to some of these meetings. Mr. Woodbury replied that he did not want to share a lot of
58	his business ideas. There was a discussion about inviting other property owners.
59	
60	Mr. Evans noted that there were some environmental challenges that they would need to
61	work around. There was a discussion about allowed uses for the property.
62	
63	Mr. Hutchings said that it was hard for other property owners to catch the vision for
64	Vineyard but once it was built they would. There was a discussion about the plan.
65	
66	Mr. Woodbury agreed with the mayor that they needed to work quickly. He felt that there
67 68	were a lot of things that they could do to give UVU more opportunities.
	There was a discussion about coordinating future meetings.
69 70	Les There was a discussion about coordinating future meetings.
71	Mr. Hutchings mentioned development on the westside property and public safety
72	concerns. A discussion ensued.
73	
73 74	
75	3. No decisions will be made at this time.
76	
77	
78	4. Adjournment
79	
80	Mr. Nair called for a motion to adjourn the meeting.
81	
82	Motion: COUNCILMEMBER WELSH MADE A MOTION TO ADJOURN THE
83	MEETING AT 12:45 PM. COUNCILMEMBER SIFUENTES SECONDED THE MOTION.
84 85	MAYOR FULLMER, COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.
86	WEEDI VOTED TES. THE WOTION CARALED ON ANIMOUSET.
87	
88	MINUTES APPROVED ON:
89	
90	CERTIFIED CORRECT BY: /s/ Pamela Spencer
91	PAMELA SPENCER, CITY RECORDER

	MINUTES OF A VINEYARD
	CITY COUNCIL MEETING
	City Council Chambers
	125 South Main Street, Vineyard, Utah
	July 27, 2022, at 6:01 PM
Present	Absent
City Council	
Mayor Julie Fullmer	
Councilmember Tyce Fla	
Councilmember Amber R	
Councilmember Mardi Si	
Councilmember Cristy W	elsh
toff Duggont, City Man	agan Erma Nain, City, Attamay, Jayma Diakaslay, Utah County, Shamiffa
•	ager Ezra Nair, City Attorney Jayme Blakesley, Utah County Sheriff's Rockwell, and Sergeant Greg Sherwood; Finance Director David
	Naseem Ghandour, Community Development Director Morgan Brim,
	va Perez, Public Works Director Chris Wilson, Water Manager Sullivar
	ela Spencer, Planning Commission Chair Bryce Brady
Others Speaking: Reside	ent Dayle Tedrow
	ER/INVOCATION/INSPIRATIONAL THOUGHT/PLEDGE OF
ALLEGIANCE	
	meeting to order at 6:01 PM. Councilmember Welsh gave the
nvocation and let the Pleo	ige of Allegiance.
2. WORK SESSION	
No items were submitted.	
to items were submitted.	
3. PUBLIC COMMEN	TS
Mayor Fullmer called	d for public comments. Hearing none, she closed the public comments
session.	a for public comments. Hearing hone, she closed the public comments
	NCILMEMBERS' REPORTS/DISCLOSURES/RECUSALS

44 Description 10 Councilmember Flake reported that he had completed the review of the emergency
45 preparedness manual and would be working on the Emergency Operations Manual.

47	Councilmember Rasmussen reported that the Community Garden Committee had hosted a
48	class, with a member of the Utah State University Extension program, about pests in the garden.
49	Councilmember Sifuentes reported that she would be attending the Orem City educational
50	meeting, where they will be talking about the feasibility study results for a possible Orem
51	school district.
52	
53	Councilmember Welsh reported that she and staff were working on the open corridor
54	plan.
55	
56	Mayor Fullmer reported that she had been elected as the Chair for the new Utah Lake
57	Authority Board.
58	
59	
60	5. STAFF, COMMISSION, AND COMMITTEE REPORTS
61	5.1 📓 City Manager Ezra Nair reported that 800 North and Main Street would be closed
62	this Thursday for the installation of the signal at 800 North and Main Street intersection. He
63	turned the time over to Lieutenant Rockwell.
64	
65	Lieutenant Rockwell introduced Greg Sherwood, the new sergeant for Vineyard.
66	Sergeant Sherwood gave a few remarks.
67	Sorgeunt Sherwood gave a few femaliks.
	Mr. Nair reported that city staff were in full hiring mode. He also reported that they were
68 69	researching options to utilize the new Transit Oriented Financing (HTRZ) District that came out
70	of House Bill 322 during the last legislative session.
70	of flouse Diff 522 during the last registative session.
72	
73	6. CONSENT ITEMS
74	6.1 Approval of the July 13, 2022 City Council Meeting Minutes
75	6.2 Approval of a Final Plat Amendment for Edgewater at Geneva Phase 18, Lot 8
76	6.3 Approval of U.S. Bank Authorized Representative Certificate – (Resolution 2022-35)
77	
78	Mayor Fullmer called for a motion.
78 79	
	MACHTER COUNCIL MEMORED SIELIENTES MOVED TO ADDONE THE CONSENT
80	Motion: COUNCILMEMBER SIFUENTES MOVED TO APPROVE THE CONSENT ITEMS AS PRESENTED. COUNCILMEMBER FLAKE SECONDED THE MOTION. ROLL
81	CALL WENT AS FOLLOWS: MAYOR FULLMER, COUNCILMEMBERS FLAKE,
82 82	RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED
83 84	UNANIMOUSLY.
85	UNANIMOUSET.
85 86	
80 87	7. APPOINTMENTS
88	7. All Olymery 13 7.1 Vineyard Youth Council Advisor1 vacancy
88 89	With the advice and consent of the council, Mayor Fullmer will appoint Emma Wilkie
90	as the advisor for the Vineyard Youth Council.
91	
	Mayor Fullmer reviewed her Youth Council Advisor appointment and called for a motion.
92	• Wayor Fullmer reviewed her Found Council Advisor appointment and caned for a motion.

93	Motion: COUNCILMEMBER WELSH MOVED TO APPROVE THE MAYOR'S
94	APPOINTMENT OF EMMA WILKIE AS THE VINEYARD YOUTH COUNCIL ADVISOR.
95	COUNCILMEMBER FLAKE SECONDED THE MOTION. MAYOR FULLMER,
96	COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES.
97	THE MOTION CARRIED UNANIMOUSLY.
98	
99	
100	8. PRESENTATIONS/RECOGNITIONS/AWARDS
101	No items were submitted.
102	
103	A DIGINEGO PENAC
104	9. BUSINESS ITEMS
105	9.1 PUBLIC HEARING – <u>Geneva Nitrogen General Plan Land Use Map and Zoning</u>
106	<u>Map Amendment Applications (Ordinance 2022-12)</u> (A public hearing was held and
107	left open during the May 25 and July 13, 2022 City Council meetings.)
108	Community Development Director Morgan Brim is requesting city initiated general plan map amendment and zoning map amendment applications for the site known as Geneva
109 110	Nitrogen located at 1165 North Geneva Road, Vineyard, Utah 84059, Serial No.
110	17:022:0006. The property is 27.36 acres in size. This rezone would change the general
111	plan map designation from undesignated to Regional Commercial. Vineyard City intends
112	to rezone the subject property from I-1 Industrial to contain the following:
113	-Regional Commercial (Approximately 5.79 acres)
115	-Business Park (Approximately 2.7 acres)
116	-Flex Office Industrial (Approximately 13.9 acres)
117	The mayor and City Council will act to adopt (or deny) the request by ordinance. (<i>This</i>
118	item was continued from the May 25 and July 13, 2022 City Council meeting.)
119	
120	Mayor Fullmer explained that this item had been discussed during the last City Council
121	meeting.
122	
123	Mr. Brim gave a recap of the changes to the ordinance since the last City Council meeting.
124	- Mil 2 mil ga e de complet de comages to me cranamico since de completant en ge
125	Mayor Fullmer called for public comments. Hearing none, she called for a motion to close
125	the public hearing.
120	the public hearing.
	MAGAIN COUNCIL MEMDER ELAKE MOVER TO CLOSE THE RURLIC HEARING AT
128	Motion: COUNCILMEMBER FLAKE MOVED TO CLOSE THE PUBLIC HEARING AT 6:19 PM. COUNCILMEMBER WELSH SECONDED THE MOTION. MAYOR FULLMER,
129 130	COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES.
130	THE MOTION CARRIED UNANIMOUSLY.
131	THE MOTION CARRIED UNANIMOUSET.
133	Mayor Fullmer called for questions from the council. She felt that the changes resolved
134	everything about which she was concerned. She thanked everyone for their work on this ordinance.
135 136	
136	
137	Councilmember Welsh agreed with the Mayor Fullmer's comments and felt that this was
138	going to be a good development.
139	
140	Mr. Brim suggested a change to the motion.
141	

142 143	Mayor Fullmer called for questions or a motion.
144 145 146 147 148	Motion: COUNCILMEMBER FLAKE MOVED TO ADOPT ORDINANCE 2022-12 AS PRESENTED BY STAFF ON JULY 27, 2022. COUNCILMEMBER SIFUENTES SECONDED THE MOTION. ROLL CALL WENT AS FOLLOWS: MAYOR FULLMER, COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.
 149 150 151 152 153 154 155 156 157 	9.2 PUBLIC HEARING – <u>Waterfront Master Plan (Ordinance 2022-13)</u> Community Development Director Morgan Brim will present a proposed Waterfront Master Plan. The plan specifies the city's use in the 3.4 miles of waterfront adjacent to the city. Those uses include but are not limited to public open space, recreation, transportation options, economic development, and increased access to Utah Lake. Additionally, this plan provides a list of future projects for the city for implementation. The mayor and City Council will act to adopt (or deny) this request by ordinance.
158	Mayor Fullmer called for a motion to open the public hearing.
159 160 161 162 163 164 165 166	Motion: COUNCILMEMBER RASMUSSEN MOVED TO OPEN THE PUBLIC HEARING AT 6:21 PM. COUNCILMEMBER WELSH SECONDED THE MOTION. MAYOR FULLMER, COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.
167 168	noted that there had been a lot of excitement from the public about this project.
169 170 171 172	Mr. Brim continued his overview. He explained that this master plan would be a living plan, more like a General Plan. He noted that the master plan would be available on the website once it was approved.
172 173 174 175 176	Councilmember Sifuentes felt that the presentation during the Planning Commission had been done well and appreciated the public comments and Planning Commission's recommendations.
177	Mr. Brim continued his overview.
178 179	Mayor Fullmer thanked everyone for their work on this plan and called for public comments
180 181 182 183 184	Resident Dayle Tedrow, living in The Villas subdivision, stated that she appreciated all the work that had gone into the plan and asked about the timeline. Mayor Fullmer explained how the timeline might go. Mr. Brim mentioned that they hoped to see development started on the boardwalk within the next year.
185 186 187	Mayor Fullmer called for further comments. Hearing none, she called for a motion to close the public hearing.

188 189	Motion: COUNCILMEMBER FLAKE MOVED TO CLOSE THE PUBLIC HEARING AT 6:39 PM. COUNCILMEMBER RASMUSSEN SECONDED THE MOTION. MAYOR
190	FULLMER, COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH
191	VOTED YES. THE MOTION CARRIED UNANIMOUSLY.
192	
193	Mayor Fullmer called for questions from the council.
194	
195	Motion: COUNCILMEMBER WELSH MOVED TO ADOPT ORDINANCE 2022-13
196	VINEYARD WATERFRONT MASTER PLAN, AS PRESENTED. COUNCILMEMBER
197	RASMUSSEN SECONDED THE MOTION. ROLL CALL WENT AS FOLLOWS: MAYOR
198	FULLMER, COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH
199	VOTED YES. THE MOTION CARRIED UNANIMOUSLY.
200	
201	9.3 DISCUSSION AND ACTION – <u>Purchasing Policy Amendments (Resolution 2022-38)</u>
202	(This item was continued from the June 29, 2022 City Council Meeting.)
203	Finance Intern Marissa Stapley will present amendments to the city purchasing policy.
204	The mayor and City Council will discuss possible amendments to the purchasing policy.
205	The mayor and City Council will at to adopt (or deny) this request by resolution.
206	
207	Mayor Fullmer called for a motion to continue this item.
208	
209	Motion: COUNCILMEMBER WELSH MOVED TO CONTINUE THIS ITEM TO A
209	FUTURE MEETING. COUNCILMEMBER RASMUSSEN SECONDED THE MOTION.
210	MAYOR FULLMER, COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND
211	WELSH VOTED YES. THE MOTION CARRIED UNANIMOUSLY.
212	WELSH VOTED TES. THE MOTION CARRIED UNANIMOUSLT.
213	
214	10. CLOSED SESSION
215	IV. CLOSED SESSION
210 217 218	Mayor Fullmer called for a motion to go into a closed session.
	Motion: COUNCILMEMBER SIFUENTES MOVED TO GO INTO A CLOSED
219	SESSION IMMEDIATELY FOLLOWING THIS MEETING IN THE CITY COUNCIL
220	CHAMBER TO HOLD A STRATEGY SESSION TO DISCUSS PENDING OR
221	REASONABLY IMMINENT LITIGATION. COUNCILMEMBER FLAKE SECONDED THE
222	
223	MOTION. ROLL CALL WENT AS FOLLOWS: MAYOR FULLMER, COUNCILMEMBERS
224	FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED
225	UNANIMOUSLY.
226	
227	
228	11. ADJOURNMENT
229	
230	1 Mayor Fullmer called for a motion to adjourn the meeting.
231	
232	Motion: COUNCILMEMBER FLAKE MOVED TO ADJOURN THE MEETING AT 6:41
232	PM. COUNCILMEMBER RASMUSSEN SECONDED THE MOTION. MAYOR FULLMER,
233 234	COUNCILMEMBERS FLAKE, RASMUSSEN, SIFUENTES, AND WELSH VOTED YES.
234	THE MOTION CARRIED UNANIMOUSLY.
235 236	
250	

237	Motion To Adjourn The Closed Session: COUNCILMEMBER FLAKE MOVED TO
238	ADJOURN THE CLOSED SESSION AT 7:36 PM. COUNCILMEMBER RASMUSSEN
239	SECONDED THE MOTION. MAYOR FULLMER, COUNCILMEMBERS FLAKE,
240	RASMUSSEN, SIFUENTES, AND WELSH VOTED YES. THE MOTION CARRIED
241	UNANIMOUSLY.
242	
243	
244	MINUTES APPROVED ON:
245	
246	CERTIFIED CORRECT BY: /s/ Pamela Spencer
247	PAMELA SPENCER, CITY RECORDER



Community Development

Date:	August 10, 2022
From:	Briam Amaya Perez, Planner II
To:	City Council
Item:	The Cottonwoods POD 6, Phase 5, Final Plat Application
Permit No:	PLAN21-345 (CityInspect, Development Module)
Address:	260 W 20 S, Vineyard, Utah, 84059
Applicant:	Michael Olsen
Owner:	Vineyard Homesteads POD 6 LLC, Glen Petit, Home Center Construction



ANALYSIS

The applicant, Michael Olsen, with Home Center Construction, is requesting approval of a final plat application for The Cottonwoods POD 6, Phase 5. The applicant is proposing to subdivide parcel 18:020:0039 into forty-four (44) separate and unique parcels. The streets shown on the plat, Keaki Wood Road, 80 South, Sicula Road, and Hackberry Road are to be dedicated to the City for the perpetual use of the public. Typical internal lot setbacks are as follows: 18-20' front, 5' side, and 15' rear. Proposed installation of utilities (sewer, storm drain, land drain, water, etc.—see Construction Set for further details) conforms to all city standards, regulations, and ordinances. This plat meets the requirements of the Combined Utah County & Vineyard City SUBDIVISION PLAT CHECK LIST. Mr. Olsen has provided all the required documentation to move forward with the recording of this final plat at the Utah County Recorder's Office, including a scope of work, the final subdivision plat, and a summary title report.

STAFF RECOMMENDATION

Staff recommends approval of the final subdivison plat with the conditions listed below.

CONDITIONS

- 1. The applicant pays any outstanding fees and makes any redline corrections.
- 2. The applicant is subject to all federal, state, and local laws.

PROPOSED MOTION

"I move to approve the final subdivision plat as requested by the applicant, Michael Olsen, with the proposed conditions."

ATTACHMENTS

Scope of Work Final Subdivision Plat Construction Set August 5, 2022

Vineyard Homesteads Development, 2012 LLC 2264 Williamsburg Circle West Jordan, UT 84088

Aimtec Group (Mike Olsen) Applicant

NARRATIVE FOR THE COTTONWOODS (POD 6), PHASE FIVE THE HOMESTEADS, VINEYARD CITY, UTAH

THE COTTONWOODS, PHASE FIVE is 44 single family lots on 8.2 acres located on Hackberry Road and Keakiwood Drive connecting to both Phase 1 and Phase 4. This phase is part of the approved MDA for the Homesteads development and is compliant with all of the requirements of that MDA.

This phase is constructed in compliance with state and local building codes and requirements utilizing Best Management Practices. There is common area outside the exterior boundaries of this phase separated by concrete walls on Center Street and 170 South. The boundary on the 300 W. side is separated by a vinyl fence with a mow strip. The common areas are to be landscaped by the developer in accordance with city standards and requirements. The common areas are deeded over to Vineyard City and are maintained by the city.

This phase is developed and constructed by the same developer and construction company that have developed all of Pods 1, 3, 6, 7, 8, 9 & 10 to date.



Curve Tab	le	
Delta	Chord Direction	Chord Length
6°13'30"	S87° 15' 12"E	21.72'
6°13'30"	N87° 15' 12"W	21.72'
3°02'36"	S88° 50' 39"E	9.13'
3°10'54"	S85° 43' 54"E	9.55'
3°31'25"	S85° 54' 10"E	14.02'
2°42'04"	S89° 00' 55"E	10.75'
37°28'11"	S71° 37' 51"E	32.12'
23°28'33"	S64° 38' 02"E	24.82'
62°49'12"	N72° 13' 05"E	63.58'
55°00'57"	N13° 18' 01"E	56.35'
24°19'44"	N26° 22' 20"W	25.71'
35°55'51"	S20° 34' 16"E	30.84'
1°32'19"	N1° 50' 11"W	1.34'
89°59'59"	N43° 55' 56"E	21.21'
90°00'00"	N46° 04' 03"W	21.21'
37°27'38"	N17° 39' 48"E	32.11'
16°12'41"	N28° 17' 17"E	17.20'
47°26'26"	N3° 32' 17"W	49.08'
58°13'19"	N56° 22' 09"W	59.35'
43°06'34"	N72° 57' 54"E	44.82'
25°23'07"	S64° 06' 11"W	21.97'
11°59'37"	S82° 47' 33"W	10.45'
89°57'00"	S46° 02' 31"E	24.03'
90°42'04"	S44° 17' 01"W	24.19'
6°13'30"	N87° 15' 12"W	18.68'
0°56'52"	N84° 36' 54"W	3.77'
5°16'37"	N87° 43' 38"W	20.99'
	Delta 6°13'30" 6°13'30" 3°02'36" 3°10'54" 3°31'25" 2°42'04" 37°28'11" 2°42'04" 37°28'11" 23°28'33" 62°49'12" 35°55'51" 1°32'19" 89°59'59" 90°00'00" 37°27'38" 16°12'41" 47°26'26" 58°13'19" 43°06'34" 25°23'07" 11°59'37" 89°57'00" 90°42'04" 6°13'30" 0°56'52"	6°13'30" S87°15'12"E 6°13'30" N87°15'12"W 3°02'36" S88°50'39"E 3°10'54" S85°43'54"E 3°10'54" S85°43'54"E 3°10'54" S85°54'10"E 3°31'25" S85°54'10"E 2°42'04" S89°00'55"E 37°28'11" S71°37'51"E 23°28'33" S64°38'02"E 62°49'12" N72°13'05"E 55°00'57" N13°18'01"E 24°19'44" N26°22'20"W 35°55'51" S20°34'16"E 1°32'19" N1°50'11"W 89°59'59" N43°55'56"E 90°00'00" N46°04'03"W 37°27'38" N17° 39'48"E 16°12'41" N28°17'17"E 90°00'00" N46°04'03"W 37°27'38" N17° 39'48"E 16°12'41" N28°17'17"E 43°06'34" N72° 57' 54"E 25°23'07" S64°06'11"W 43°06'34" N72° 57' 54"E 25°23'07" S46°02' 31"E 90°42'04" S44°17' 01"W

	DATE//
LOT DRAINAGE:	
AS APPROVED AND REQUIRED BY THE CITY OF VINEYARD • AT MINIMUM, 50% OF ROOF DRAINS SHALL DRAIN TOWARDS THE STREET.	VINEYARD ENGINEER
 ALL SIDE DOWNSPOUTS ARE TO BE DIVERTED TOWARD THE FRONT OR REAR OF THE LOT. YARDS TO BE POSITIVELY GRADED AWAY FROM ALL WINDOW WELLS HOA'S &/OR HOMEOWNERS ARE RESPONSIBLE FOR MAINTAINING LOT LINE DRAINAGE PATHWAYS THROUGH THEIR PROPERTIES PER 	DATE//
 ALL LOT LINES ARE TO BE MAINTAINED AS DRAINAGE PATHWAYS FOR ACCUMULATING RUNOFF FROM ADJOINING LOTS. ALL LOTS SHALL MEET THE INTERNATIONAL BUILDING CODE STANDARDS AND DRAWN SPOOM THE STRUCTURE 	CLERK/RECORDER

²⁵ 30 36 31
NR

18' GARAGE	
	5' SIDE SETBACK
	5' SIDE SETBACK
NOTE: NO MORE THAN TWO	

SURVEYOR'S CERTIFICATE

, JOSH F. MADSEN DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, AND THAT I HOLD LICENSE NO. 5152657 AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT BY AUTHORITY OF THE OWNERS, I HAVE MADE A SURVEY OF THE TRACT OF LAND SHOWN ON THIS PLAT AND DESCRIBED BELOW, AND THAT I HAVE SUBDIVIDED SAID TRACT OF LAND INTO LOTS BLOCKS, STREETS, AND EASEMENTS AND THAT THE SAME HAS OR WILL BE STAKED ON THE GROUND AS SHOWN ON THIS PLAT, AND SHALL BE HEREAFTER KNOWN AS THE COTTONWOODS PHASE 5.

JOSH F. MADSEN LICENSE #5152657

BOUNDARY DESCRIPTION

FOUND UTAH COUNTY BRASS CAP MONUMENT AS DESCRIBED HEREON
STREET MONUMENTS STREET CENTERLINE SUBDIVISION BOUNDARY
 SUBDIVISION LOT LINE ADJOINING PROPERTY LINES SECTION LINE
TIE LINES TO POINT OF BEGINNING RADIAL LINE NON-RADIAL LOTLINE

SETBACK	DO HEREBY DEDICATE FOR PERPETUAL USE OF THE PUBLIC ALL PARCELS OF LAND SHOWN ON THIS PLAT AS INTENDED FOR PUBLIC USE. THE OWNER(S) WARRANT
SLATIVE BODY TAH COUNTY, APPROVES THIS N OF ALL STREETS, EASEMENTS, PUBLIC PURPOSES FOR THE DAY OF20	AND DEFEND AND SAVE THE CITY HARMLESS AGAINST ANY EASEMENTS OR OTHER ENCUMBRANCE ON A DEDICATED STREET WHICH WILL INTERFERE WITH THE CITY'S USE, MAINTENANCE AND OPERATION OF THE STREET. IN WITNESS WHEREOF HAVE HEREUNTO SET THIS DAY OF, A.D. 20.
	OWNER'S ACKNOWLEDGMENT
VINEYARD ATTORNEY	STATE OF UTAH } COUNTY OF UTAH \$S.S.
DATE//	ON THE DAY OF, A.D. 20, PERSONALLY APPEARED BEFORE ME, THE UNDERSIGNED NOTARY PUBLIC, IN AND
VINEYARD CITY MANAGER	FOR SAID COUNTY OF UTAH IN SAID STATE OF UTAH, THE SIGNER(S) OF THE ABOVE OWNER'S DEDICATION,IN NUMBER, WHO DULY ACKNOWLEDGED TO ME THATSIGNED IT FREELY AND VOLUNTARILY AND FOR THE USES AND PURPOSES THEREIN MENTIONED.
DATE//	MY COMMISSION EXPIRES: NOTARY PUBLIC RESIDING AT:
	Recorded # State of Utah, County of UTAH, recorded and filed at the request of
	Date Time Book, Page

Utah County Recorder

Fee \$

A PARCEL OF LAND LOCATED IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 6 SOUTH, RANGE 2 EAST, SALT LAKE BASE & MERIDIAN. BEGINNING AT A POINT BEING LOCATED SOUTH 89°38'03" WEST 1147.87 FEET AND SOUTH 40.56 FEET FROM THE WEST QUARTER CORNER OF SECTION 17 OF SAID TOWNSHIP AND RANGE (BASIS OF BEARING AS MEASURED BETWEEN THE FOUND UTAH COUNTY BRASS CAP MONUMENT MARKING THE EAST QUARTER CORNER SECTION 17 AND THE WEST QUARTER CORNER OF SECTION 17) AND RUNNING THENCE SOUTH 0°21'57" EAST 100.06 FEET; THENCE SOUTH 7°08'45" WEST 56.48 FEET; THENCE SOUTH 1°04'01" EAST 91.56 FEET; THENCE SOUTH 89°24'39" WEST 326.37 FEET; THENCE SOUTH 1°04'01" EAST 585.11 FEET; THENCE SOUTH 13°00'19" WEST 57.72 FEET: THENCE SOUTH 1°01'03" EAST 99.82 FEET: THENCE SOUTH 88'58'57" WEST 244.20 FEET TO A TANGENT 15.00 FOOT RADIUS CURVE TO THE RIGHT; WHICH CENTER BEARS NORTH 1°01'03" WEST; THENCE 23.55 FEET ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 89°57'02" (CHORD=NORTH 46°02'32" WEST 21.20 FEET); THENCE NORTH 1°04'01" WEST 972.64 FEET TO A 15.00 FOOT RADIUS CURVE TO THE RIGHT; WHICH CENTER BEARS NORTH 88°55'58" EAST; THENCE 21.87 FEET ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 83°33'05" (CHORD=NORTH 40°43'00" EAST 19.98 FEET); THENCE TO A TANGENT 290.00 FOOT RADIUS CURVE TO THE RIGHT; WHICH CENTER BEARS SOUTH 07'30'58" EAST; THENCE 36.19 FEET ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 7°09'01" (CHORD=NORTH 86°03'33" EAST 36.17 FEET); THENCE NORTH 89°38'03" EAST 388.97 FEET; THENCE SOUTH 84°08'27" EAST 110.67 FEET; THENCE NORTH 89°38'03" EAST 60.73 FEET TO THE POINT OF BEGINNING. CONTAINS: 8.197 ACRES AND 44 LOTS

CORPORATE ACKNOWLEDGEMENT

STATE OF UTAH } S.S. COUNTY OF UTAH

ON THE DAY OF A.D. 20 ___ PERSONALLY APPEARED BEFORE ME GLEN R. PETTIT, WHO BEING BY ME DULY SWORN DID SAY THAT HE IS THE MANAGER OF HOME CENTER CONSTRUCTION COMPANY, LLC A UTAH LIMITED LIABILITY COMPANY, BY PRO MANAGEMENT-UTAH, LLC, A DELAWARE LIMITED LIABILITY COMPANY, AND THAT THE WITHIN AND FOREGOING NSTRUMENT WAS SIGNED VOLUNTARILY FOR SAID CORPORATION AND FOR THE USES AND PURPOSED HEREIN MENTIONED.

HOME CENTER CONSTRUCTION COMPANY, LLC BY PRO MANAGEMENT – UTAH. LLC A DELAWARE LIMITED LIABILITY COMPANY

BY

GLEN R. PETTIT, MANAGER

MY COMMISSION EXPIRES NOTARY RESIDING AT

OWNER'S DEDICATION

KNOW ALL MEN BY THESE PRESENTS THAT THE UNDERSIGNED OWNER(S) OF THE ABOVE DESCRIBED TRACT OF LAND HAVING CAUSED SAME TO BE SUBDIVIDED INTO LOTS AND STREETS TO BE HEREAFTER KNOWN AS

THE COTTONWOODS PHASE 5



SHEET INDEX COVER SHEET G.101 GENERAL NOTES C.101 EXISTING SITE PLAN C.102 PROPOSED SITE PLAN C.103 PROPOSED UTILITY PLAN C.104 PROPOSED GRADING PLAN C.105 EROSION CONTROL PLAN C.201 STREET CROSS SECTION AND DETAILS C.301 PLAN & PROFILE C.302 PLAN & PROFILE C.303 PLAN & PROFILE C.304 PLAN & PROFILE C.305 PLAN & PROFILE C.306 PLAN & PROFILE D.101 DETAILS D.102 LOT RETENTION DETAIL ER.101 BMP DETAILS ER.102 BMP DETAILS

OWNER/DEVELOPER AIMTEC GROUP 8138 S. STATE ST., SUITE 3 MIDVALE, UTAH 84047 CONTACT: MIKE OLSEN PHONE: (801) 550-4133

ENGINEER GILSON ENGINEERING, INC. 12401 SOUTH 450 EAST, UNIT C2 DRAPER, UTAH 84020-7937 CONTACT: JIM MILLIGAN PHONE: (801) 571–9414

THE COTTONWOODS

IMPROVEMENT PLANS

PHASE 5 LOCATED AT THE NORTHEAST INTERSECTION OF 300 WEST AND 170 SOUTH IN THE CITY OF VINEYARD, UTAH







PHASE 5 SITE PLAN



GENERAL NOTES

- 1. THIS DESIGN IS AN ORIGINAL UNPUBLISHED WORK AND MAY NOT BE DUPLICATED, PUBLISHED AND/OR USED WITHOUT THE WRITTEN CONSENT OF GILSON ENGINEERING, INC.
- 2. THESE SHEETS LISTED BY DRAWING INDEX, ALL ACCOMPANYING SPECIFICATIONS FOR MATERIALS, WORKMANSHIP QUALITY, AND NOTES HAVE BEEN PREPARED SOLELY FOR THE CONSTRUCTION AND FINISH OF PROJECT IMPROVEMENTS, COMPLETE AND READY FOR USE.
- 3. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH PERTINENT JURISDICTIONAL CODES, RESTRICTIONS, COVENANTS, AND/OR ORDINANCES. ANY CONFLICT BETWEEN DESIGN AND REQUIREMENT SHALL BE REPORTED TO GILSON ENGINEERING, INC. BEFORE PROCEEDING. FAILURE TO DO SO VOIDS THE DESIGN.
- 4. ANY AND ALL PROPOSED CHANGE, MODIFICATIONS AND/OR SUBSTITUTION SHALL BE REPORTED TO GILSON ENGINEERING, INC. BEFORE PROCEEDING. ANY DEVIATION FROM THE CONTRACT DOCUMENTS, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF GILSON ENGINEERING, INC. VOIDS THE DESIGN.
- IN THE EVENT OF CONFLICT BETWEEN THE DESIGN DOCUMENTS AND/OR JURISDICTIONAL REQUIREMENTS, THE MORE RESTRICTIVE FROM THE STANDPOINT OF SAFETY AND PHYSICAL SECURITY SHALL APPLY.
 ANY INSTALLATION OR WORK NECESSARY TO THE FUNCTIONING, SAFETY AND/OR PHYSICAL SECURITY OF DESIGN THAT IS TO BE
- ENCAPSULATED OR OTHERWISE PERMANENTLY OBSCURED FROM INSPECTION SHALL BE REPORTED TO GILSON ENGINEERING, INC. A MINIMUM OF TWO (2) WORKING DAYS BEFORE ENCLOSURE.
- 7. DESIGN IS GENERALLY PREDICATED UPON PROVISIONS OF THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE AND/OR AMENDMENTS AS MAY HAVE BEEN LOCALLY ENACTED. THIS DESIGN AND ANY CONSEQUENT CONSTRUCTION SHALL ACCOMMODATE ALL REQUIREMENTS OF THE JURISDICTIONAL FIRE SAFETY/PREVENTION DISTRICT.
- 8. ANY DAMAGE, DISRUPTION OR COMPROMISE OF AMBIENT RIGHTS-OF-WAY, UTILITIES, OR ENVIRONMENTAL QUALITY SHALL BE IMMEDIATELY RECTIFIED BY THE CONTRACTOR TO THE SATISFACTION OF GILSON ENGINEERING, INC. AT NO COST TO THE OWNER.
- 9. THIS DESIGN PURPORTS TO PERMIT FULL ACCESS TO HANDICAPPED PERSONS AS PROVIDED FOR BY PROVISIONS OF FEDERAL LAW. ANY DEVIATION OR COMPROMISE SHALL BE REPORTED TO GILSON ENGINEERING, INC. FOR RESOLUTION.
- 10. ALL WORK SHALL BE INSPECTED BY GOVERNING AGENCIES IN ACCORDANCE WITH THEIR REQUIREMENTS. JURISDICTIONAL APPROVAL SHALL BE SECURED BEFORE PROCEEDING WITH WORK
- ANY WORK THAT IS OUTSIDE OF THE LIMIT OF WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
 CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- 13. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
- 14. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
- CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFORE HAND.
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 72 HOURS IN ADVANCE
- OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION. 17. ALL DIMENSIONS, GRADES, AND UTILITY DESIGNS SHOWN ON PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO
- CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. 18. CONTRACTOR IS RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAG MEN, AND ALL OTHER DEVICES
- NECESSARY FOR PUBLIC SAFETY.
 19. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES, AND TELEPHONE SERVICES AS
- REQUIRED FOR THE CONTRACTORS USE DURING CONSTRUCTION. 20. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE
- OWNER OR ENGINEER.
- 21. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS, CONTROL POINTS, REFERENCE POINTS, AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSE BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
- 22. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFELY OF ALL PERSONS ON THE PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM AMY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- ALL WORK WITHIN THE SITE TO CONFORM TO THE CURRENT CITY STANDARDS AND SPECIFICATIONS.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL OF THE REQUIREMENTS ESTABLISHED FOR SAFE TRENCHING. (SEE
- OSHA AND UOSHA REQUIREMENTS, LATEST EDITIONS). 25. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 200 FEET OF SAID UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLUE STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE UTILITY IF NECESSARY OR OBTAIN PERMISSION FROM THE PROJECT ENGINEER TO MODIFY GRADES OF PROJECT LINES IN ORDER TO GO AROUND EXISTING UTILITIES.
- 26. SEWER MAINS, WATER MAINS, GAS MAINS AND OTHER UTILITIES ARE SHOWN ON THE PLANS IN A GENERAL SCHEMATIC WAY ACCORDING TO INFORMATION RECEIVED FROM OTHERS AND SOMETIMES FROM FIELD MEASUREMENTS. THE ACCURACY OR COMPLETENESS OF THE LOCATIONS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF EXISTING SERVICE CONNECTIONS AND UTILITIES, VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS AND TAKE THE NECESSARY STEPS TO AVOID THEM.
- 27. SPECIFIC INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS SHALL SUPERSEDE ITEMS COVERED IN THESE DRAWINGS.

UTILITY NOTES

- COORDINATE ALL UTILITY CONNECTIONS TO BUILDING WITH PLUMBING PLANS AND BUILDING CONTRACTOR.
 VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING ANY NEW UTILITY LINES. NOTIFY CIVIL
- ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO ANY CONNECTIONS BEING MADE.
- 3. WATER METERS ARE TO BE INSTALLED PER CURRENT VINEYARD TOWN STANDARDS AND SPECIFICATIONS. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL ALL ITEMS REQUIRED.
- 4. WATER LINES, VALVES, FIRE HYDRANTS, FITTINGS ETC. ARE TO BE CONSTRUCTED AS SHOWN. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ANY VERTICAL ADJUSTMENTS NECESSARY TO CLEAR SEWER, STORM DRAIN OR OTHER UTILITIES AS NECESSARY INCLUDING VALVE BOXES AND HYDRANT SPOOLS TO PROPER GRADE.
- FIELD VERIFY ALL EXISTING AND/OR PROPOSED ROOF DRAIN/ROOF DRAIN DOWN SPOUT CONNECTIONS TO STORM WATER SYSTEM WITH CIVIL, PLUMBING & ARCHITECTURAL PLANS, NOTIFY ENGINEER OF ANY DISCREPANCIES.
 ALL CATCH BASING AND INLET BOX OBJECTORE FOR PLOYOFF CATE.
- ALL CATCH BASINS AND INLET BOX GRATES ARE TO BE BICYCLE SAFE.
 UNLESS OTHERWISE NOTED FOR EXISTING UTILITIES, ALL DRY UTILITIES ARE ASSUMED TO BE 3' BELOW EXISTING GRADE TO TOP
- OF CONDUIT. ALL WATER LINES ARE ASSUMED TO BE 4' BELOW EXISTING GRADE TO TOP OF PIPE. ALL STORM AND SANITARY LINES ARE BASED ON SURVEYED INVERT DATA. CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS, VERIFY ELEVATIONS AND CONTACT ENGINEER IF ELEVATIONS ARE DIFFERENT FROM THOSE SHOWN IN THESE PLANS. 8. ANY EXISTING VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE
- 9. IF CONTRACTOR LOCATES ANY UNIDENTIFIED UTILITIES, CONTRACTOR SHALL CONTACT THE ENGINEER FOR VERIFICATION OF LOCATION BOTH HORIZONTAL AND VERTICAL.

ABBREVIATIONS

	ADJUST
ADJ	
ADS	ADVANCE DRAINAGE SYSTEM
ARV	AIR RELEASE VALVE
BC	BAR AND CAP
BOW	BACK OF WALK
BVCE	BEGINNING VERTICAL CURVE ELEV.
BVCS	BEGINNING VERTICAL CURVE STATION
-	CATCH BASIN
CB	
CBL	CABLE
СН	CHORD BEARING
CL	CENTERLINE
	-
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
	SECTION CORNER
COR.	
D	DELTA ANGLE
DET	DETAIL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
EG	EXISTING GRADE
-	
ELEV	ELEVATION
EOC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
EVCE	END VERTICAL CURVE ELEV.
EVCS	END VERTICAL CURVE STATION
EW	EACH WAY
EX	EXISTING
	-
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
	FLOW LINE
FL	
FO	FIBER OPTICS
FT	FOOT
GB	GRADE BREAK
HC	HANDICAP
HDPE	HIGH DENSITY POLY ETHYLENE
HP	HIGH POINT
INV.	INVERT
IRR	IRRIGATION
L.F.	LINEAR FEET
LIP	LIP OF CURB
LP	LOW POINT
LT.	LEFT
MAX.	MAXIMUM
MH	MANHOLE
MIN.	MINIMUM
MON	MONUMENT
	NOT TO SCALE
NTS	
OC	ON CENTER
OHP	OVER HEAD POWER
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
	POINT OF REVERSE CURVE
PRC	
PRV	PRESSURE REDUCING VALVE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
-	
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
ROW	RIGHT OF WAY
RT.	RIGHT
S	SEWER
SD	STORM DRAIN
SER	SOUTH END RADIUS
	SEWER MANHOLE
SSMH	
STA	STATION
STD	STANDARD
SW	SECONDARY WATER
TBC	TOP BACK OF CURB
TOA	TOP OF ASPHALT
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
-	
TOW	TOP OF WALL
TYP	TYPICAL
UG	UNDER GROUND POWER
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
WM	WATER METER
WV	
VVV	WATER VALVE
VVV	WATER VALVE
VVV	WATER VALVE

CONSTRUCTION NOTES

1. ALL WORK WITHIN THE SITE TO CONFORM TO THE CURRENT TOWN STANDARDS AND SPECIFICATION

 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL OF THE REQUIREMENTS ESTABLISHED SAFE TRENCHING. (SEE OSHA AND UOSHA REQUIREMENTS, LATEST EDITIONS).
 3. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE LAYING PIPE WITHIN 200 FEET OF

UTILITIES WHICH MAY BE EXPOSED, DAMAGED OR CROSSED AS SHOWN ON THE DRAWINGS OR AS "BLU STAKED". THE CONTRACTOR WILL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY TO MOVE THE U NECESSARY OR OBTAIN PERMISSION FROM THE PROJECT ENGINEER TO MODIFY GRADES OF PROJECT ORDER TO GO AROUND EXISTING UTILITIES.

4. SEWER MAINS, WATER MAINS, GAS MAINS AND OTHER UTILITIES ARE SHOWN ON THE PLANS IN A GEN SCHEMATIC WAY ACCORDING TO INFORMATION RECEIVED FROM OTHERS AND SOMETIMES FROM FIELD MEASUREMENTS. THE ACCURACY OR COMPLETENESS OF THE LOCATIONS SHOWN IS APPROXIMATE OF CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF EXISTING SERVICE CONNECTIONS AND UT VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS AND TAKE THE NECESSARY STEPS TO AVOID THEM

5. SPECIFIC INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS SHALL SUPERSEDE ITEMS COVE THESE DRAWINGS.

EROSION CONTROL NOTES

1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE MAINTAINING THE EROSION CONTROL FACILITIES SHOWN ON THE PLAN.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM TRAFFIC FROM THE SITE.

3. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL E EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MO NECESSARY, AND REMOVED WHEN THE SITE IS PAVED.

4. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY UPON INDIVIDUAL INLETS BECOMING FUNCTIONAL.

5. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED IN A MANNER PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.

6. FUGITIVE DUST AREAS SHALL BE CONTROLLED BY SPRAYING WATER ON THE DRY AREAS OF THE SIT

7. NO RUBBISH, TRASH, GARBAGE OR OTHER SUCH MATERIALS SHALL BE DISCHARGED INTO DRAINAG OR WATERS OF THE STATE.

8. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR IN DRAINS MUST BE REMOVED IMMEDIATELY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SIL FENCES, STRAW BALES, ETC.) DUE TO GRADE CHANGES OR OTHER UNFORESEEN CONDITIONS DURING DEVELOPMENT OF THE PROJECT.

NOTE:

1. THIS DESIGN IS BASED FROM THE HOMESTEADS AT VINEYARD ROADWAY AND INFRASTRUCTURE PLAN SET. FINAL ELEVATIONS MAY VARY AT CONNECTION POINT TO THIS PLAN SET.

2. LAND DRAIN DESIGN IS BASED ON THE BEST AVAILABLE SUBSURFACE INFORMATION. SUCCESS OR FAILURE OF THE LAND DRAIN SYSTEM WILL DEPEN ON THE INSTALLATION AND MAINTENANCE OF DRAINS AND PIPELINES FOR EACH INDIVIDUAL LOT. IT IS RECOMMENDED THAT LATERALS BE INSTALLED BELOW DRIVEWAYS OR OTHER IMPERMEABLE SURFACES TO MINIMIZE CONGESTION FROM TREE ROOTS. TREES WITH WATER SEEKING ROOTS MUST NOT BE ALLOWED NEA LAND DRAINS WHICH MAY CAUSE CLOGGING.

	ED FOR OF SAID LUE UTILITY IF CT LINES IN		12401 SOUTH 450 E. PHONE: (801) 571-9
	ONLY. THE JTILITIES, EM.		POPERSSION PROFESSION No. 362118 THE Bradley S. Standard Gilson
	E FOR IES AS - ENTER OR		THE COTTONWOODS AT THE HOMESTEADS
NTO STORM SIG SIG SIG SIG SIG SIG SIG SIG	NG ER THAT		DNS PER CITY REDLINES PLANS JRES 1" ON FULL SIZE S HALF SIZE SHEET
CALL BEFORE YOU DIG. Interviewer	INTO STORM SILT		DATE BY 10/29/21 JG 7-6-22 JG
CALL BEFORE YOU DIG. IT'S FREE & IT'S THE LAW. (TOLL-FREE) 1-800-662-41111 208-2100 (SALT LAKE METRO) (SALT LAKE METRO) (SALT LAKE METRO) (SALT LAKE METRO) (SALT LAKE CITY, UTAH 84101 DINTS ME CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNITINES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD IC CAMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FORD SO THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN INTO FOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST AN HOURS BEFORE ANY EXCAUNTION TO RECURST EXACT FIELD LOCATION OF SET AND			BY:
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				W /
KEY NOTES: 1. INSTALL 8' ADA SIDEWALK RAMP REQ'D. AT A	ALL CURB			/
RETURNS (VINEYARD STD. DWG. 7)				6/
2. INSTALL SINGLE RESIDENTIAL STREET LIGH (VINEYARD STD. DWG. 28 AND 29)	IT			
3. INSTALL STREET/STOP SIGN (VINEYARD ST	D. DWG. 25)			
4. INSTALL 2' CURB AND GUTTER (SEE DETAIL	3/D.101)			
5. 6' PARKSTRIP				
6. INSTALL 5' SIDEWALK			PROPOSED BOUNDA POD 6, PHASE 5, THE COTTONWOODS AT	
7. REMOVE AND RELOCATE EXISTING STREET NEW CURB RETURNS.	LIGHTS TO			
			300 WEST	
		ING SIDEWALK, CURB AND ACE WITH NEW SIDEWALK,		
		ITTER PER VINEYARD CITY STANDARDS.		
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NOTES				
NOTES 1. FOR UTILITIES SEE C.103				
	C.104 S	SITE STATISTICS		
1. FOR UTILITIES SEE C.103		SITE STATISTICS OTS – 44		





NOTES:

1. ALL CULINARY WATER LINES SHALL BE 8" PVC C900 AND HAVE 48" MIN. COVER.

2. ALL CULINARY WATER LINES MUST HAVE A 12" MINIMUM CLEARANCE ABOVE WHERE WATER LINES CROSS SANITARY SEWER UTILITIES.

3. ALL LAND DRAIN TO BE 8" PVC SDR 35 (UNLESS OTHERWISE NOTED)

4. SEE VINEYARD LAND DEVELOPMENT POLICIES, STANDARD SPECS AND DRAWINGS FOR CONSTRUCTION AND DESIGN STANDARDS.

5. ALL SANITARY SEWER LINES ARE 8" PVC SDR 35 SEWER UNLESS NOTED OTHERWISE.

6. TRACER WIRE IS REQUIRED ON ALL WATER LINES, INCLUDING THOSE THAT GO INTO METER BOX.

7. FIRE HYDRANTS MUST BE INSTALLED WITH GRAVEL DRAIN BED.

8. ALL WATER METERS ARE REQUIRED TO HAVE CAST IRON LIDS.

9. COMPACTION AROUND VALVES, MANHOLES, ETC. MUST BE DONE WITH MECHANICAL TAMPER TO ENSURE PROPER COMPACTION.

10. POLY PIPE IS ALLOWED ON WATER LATERALS, INSERTS REQUIRED ON BRASS FITTINGS.

11. DOUBLE STRAP BRONZE OR STAINLESS STEEL TAP SADDLES REQUIRED ON ALL WATER LATERALS.

- 12. PLASTIC WRAP REQUIRED FOR ALL DUCTILE FITTINGS.
- 13. VALVES TO BE FLANGED CONNECTION TO FITTINGS WHERE POSSIBLE.
- 14. DURING CONSTRUCTION OF CURB, EACH TYPE LATERAL STUB SHOULD BE MARKED IN CURB,
- S = SEWER, W = WATER, D = LAND DRAIN.15. STREET LIGHT TYPE 07A-1049 & 07A-1052.
- 16. LOOP WATER, SEWER AND LAND DRAIN WITH PRIOR PHASES.
- 17. ALL EXISTING UTILITIES TO BE REMOVED OR RELOCATED AS NECESSARY. THE DEVELOPER ALONG WITH ROCKY MOUNTAIN POWER, QUESTAR AND CENTURY LINK TO MANAGE THE CONSTRUCTION.











1. SEE HOMESTEADS AT VINEYARD BOULEVARD & PARKWAY LANDSCAPE DESIGN.

2. FOR WATER TABLE ELEVATIONS SEE IGES DEWATERING INVESTIGATION THE HOMESTEADS OF VINEYARD,





KEY NOTES: 1. 8" CULINARY GATE VALVE (STD. DWG. 17)
2. 6" FIRE HYDRANT (STD. DWG. 17)
3. SIDEWALK ADA RAMP REQ'D. AT ALL CURB RETURNS (STD. DWG. 7)
4. STORM DRAIN CLEANOUT (STD. DWG. 14)
5. CURB INLET WITH SINGLE GRATE (STD. DWG. 8)
6. CURB INLET WITH DUAL GRATE (STD. DWG. 8)
7. COMBINATION BOX (STD. DWG. 9)
8. SANITARY SEWER IN-LINE MANHOLE (STD. DWG. 14)
9. SANITARY SEWER JUNCTION MANHOLE (STD. DWG. 14)
10. LAND DRAIN MANHOLE (STD. DWG. 14)
11. SINGLE RESIDENTIAL STREET LIGHT (STD. DWG. 26)
12. LOOP WATER LINE AS NECESSARY (SEE DETAIL 3/D.103)
NOTES: 1. THE BENCHMARK IS LOCATED AT THE WEST QUARTER CORNER OF SECTION 17, TOWNSHIP 6 SOUTH, RANGE 2 EAST, SLB & M. ELEV=4518.08
2. ALL CULINARY WATER LINES ARE PVC C900 (8" MIN.).
3. PLUG & CAP END OF PIPE, STUB ACCESS POINT & MARK W/ 2"X4" AND PAINT THE FOLLOWING:

WATER - BLUE STORM DRAIN - WHITE 4. EXISTING POWER POLES TO BE REMOVED IN COORDINATION WITH ROCKY MOUNTAIN POWER.

SEWER - GREEN LAND DRAIN - PURPLE







KEY NOTES:

1. 8" CULINARY GATE VALVE (STD. DWG. 17)

2. 6" FIRE HYDRANT (STD. DWG. 17)

3. SIDEWALK ADA RAMP REQ'D. AT ALL CURB RETURNS (STD. DWG. 7)

- 4. STORM DRAIN CLEANOUT (STD. DWG. 14)
- 5. CURB INLET WITH SINGLE GRATE (STD. DWG. 8)
- 6. CURB INLET WITH DUAL GRATE (STD. DWG. 8)
- 7. COMBINATION BOX (STD. DWG. 9)





KEAKI WOOD STA: 15+00 TO 17+89





KEY NOTES:

1. 8" CULINARY GATE VALVE (STD. DWG. 17)

2. 6" FIRE HYDRANT (STD. DWG. 17)

3. SIDEWALK ADA RAMP REQ'D. AT ALL CURB RETURNS (STD. DWG. 7)

- 4. STORM DRAIN CLEANOUT (STD. DWG. 14)
- 5. CURB INLET WITH SINGLE GRATE (STD. DWG. 8)
- 6. CURB INLET WITH DUAL GRATE (STD. DWG. 8)
- 7. COMBINATION BOX (STD. DWG. 9)

- 8. SANITARY SEWER IN-LINE MANHOLE (STD. DWG. 14)
- 9. SANITARY SEWER JUNCTION MANHOLE (STD. DWG. 14)
- 10. LAND DRAIN MANHOLE (STD. DWG. 14)
- 11. SINGLE RESIDENTIAL STREET LIGHT (STD. DWG. 26)
- 12. LOOP WATER LINE AS NECESSARY (SEE DETAIL 3/D.103)

1" WATER LATERAL W/ $\frac{3}{4}$ " WATER METER

4" LAND DRAIN LATERAL @ 2.0% (MIN) GRADE

4" SWR. LATERAL @ 2.0% -(MIN) GRADE



SICULA ROAD









RETENTION POND STATISTICS	
STORAGE VOLUME REQUIRED	4,792 CF
POND VOLUME:(HIGH WATER)	5,279.31 CF
POND VOLUME:(W/ FREE BOARD)	10,373.13 CF
HIGH WATER ELEV:	4507.20
BOTTOM OF POND ELEV:	4506.20
POND TOP ELEV: (FREE BOARD)	4508.20





UTILITY SINGLE PIPE TRENCH SCALE: 1" = 20'























VINEYARD CITY COUNCIL STAFF REPORT

Meeting Date: 8-10-2022

Agenda Item: 7.4 Water Tank and Pipeline & Meter Station Projects Construction Addendums

Department: Engineering

Presenter: Naseem Ghandour, P.E.

Background/Discussion:

The city staff wishes to revise the existing contract (Attachments 1) with Hansen Allen and Luce (HAL) Engineering for Construction Engineering & Inspection (CEI) services related to the Vineyard City Pipelines and Meter Station project (Attachment 2).

Vineyard City Pipelines and Meter Station Design project (\$245,149.00):

This addendum is required for the City Water (Distribution) Pipeline project as it allows the City to provide Construction Engineering & Inspection by the prime design consultant, HAL Engineering, during the construction of the pipeline project, awarded to Landmark Excavation by the City Council on June 29, 2002, Resolution 2022-25.

Construction Engineering & Inspection (CEI) is one of the essential elements of construction and contract administration. It is especially true of larger, more complex projects such as utility construction, which involves field-assembled products with quality dependent on the use of satisfactory materials and workmanship. Although engineering designs, plans, and specifications are adequately prepared, CEI ensures that those specifications and drawings are adhered to during the project's monitoring. The CEI serves as the City's representative on the project and faithfully represents the Department's interest in all matters, with particular emphasis given to issues involving public safety, quality, timely completion of the work, and financial responsibility.

This addendum provides for a team consisting of Professional Engineers, Specialty Consultants, Project Managers, and Inspectors to provide Construction Engineering & Inspection services to the City for the 1-year duration of the project construction and commissioning.

The unadjusted addendum cost for CEI is \$319,790. Accounting for the remaining original budget for JUB Services During Construction of \$96,927.00 provides an adjusted total for an amendment increase of \$222,863. Staff recommends a 10% contingency of \$22,286.30 to provide for field contingencies, such as specialized testing and surveying, which may occur and be the responsibility of the City to provide.

This is \$113,863 lower than the original addendum, or approximately \$173,063 lower if adjusting the original addendum for the increased site inspection hours of the revised addendum.



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VINEYARD CITY COUNCIL STAFF REPORT

Fiscal Impact:			
Vineyard City Pipelines and Meter Station Design project			
Current Contract Price	\$590,270.64		
Addendum No. 3	\$245,149.00		
New Total	\$835,419.64		

Recommendation:

Staff Recommends Approval of addendum for the Construction Engineering & Inspection for the Vineyard City Pipelines and Meter Station construction at a total cost of \$245,149

Sample Motion:

I move to approve city staff to execute and complete the addendum to the Vineyard City Pipelines and Meter Station Construction contracts as presented.

Attachments:

- 1. Vineyard City Pipelines and Meter Station Design Contract & Addendums 1, 2, & 3
- 2. Vineyard City Pipelines and Meter Station CEI Proposal Spreadsheet, Addendum No. 4
HAL PROPOSAL SPREADSHEET

CLIENT: Vineyard City

PROJECT: Pipelines Services During Construction

TROJECT	Pipelines Services During Construction					Hours							
Pha Task#	Task Activity	Mang Prof III	Mang Prof I	Sen Prof II	Prof II	Surveying	Field Tech/CAD	Prof I	Admin Asst	Total Hours	Labor Costs	Expense Cost	Total HAL Cost
Task 100	- Services During Construction												
100	Project Administration	17.6								17.6	\$3,905.07	111.94	\$4,017.01
101 102	General Administration of the Contract Documents Pre-Construction Conference	4.4	4.4 3.3							8.8 3.3	\$1,860.10 \$662.87	55.97 20.99	\$1,916.06 \$683.86
103	Visits to Site and Observation of Construction	8.8	8.8				953.3			970.9	\$103,257.73	6346.74	\$109,604.46
104	Recommendations Regarding Defective Work		8.8							8.8	\$1,767.66	55.97	\$1,823.62
105	Clarifications and Interpretations, Field Orders		8.8							8.8	\$1,767.66	55.97	\$1,823.62
106	Work Change Directives		26.4							26.4	\$5,302.97	167.90	\$5,470.87
107	Change Orders		26.4							26.4	\$5,302.97	167.90	\$5,470.87
108	Review Submittals		17.6							17.6	\$3,535.31	111.94	\$3,647.25
109	Advise on Requested Substitutes		8.8							8.8	\$1,767.66	55.97	\$1,823.62
110	Office Response to Contractor Request for Information		96.8							96.8	\$19,444.22	615.65	\$20,059.86
111	Recommend Tests and Review Test Results	4.4	26.4							30.8	\$6,279.24	195.89	\$6,475.12
112	Assist with Disagreements Between Owner and Contractor	8.8	17.6							26.4	\$5,487.85	167.90	\$5,655.75
113	Recommendations for Payment		39.6							39.6	\$7,954.45	251.86	\$8,206.31
114	Review Contractor's Completion Documents		3.3							3.3	\$662.87	20.99	\$683.86
115 116	Evaluation of Substantial Completion Evaluation of Final Completion	4.4	6.6 4.4							11 4.4	\$2,302.01 \$883.83	112.86 70.88	\$2,414.87 \$954.71
117	Bi-weekly Construction Coordination Meetings	33.0	72.6							105.6	\$21,905.18	1615.42	\$23,520.59
118	Submit for Operating Permit to DDW									0	\$0.00	0.00	\$0.00
119	Review Contractor's O&M Manual		4.4				(7.0			4.4	\$883.83	27.98	\$911.81
120	Address Work Discovered to be Defective		17.6				17.6			35.2	\$5,372.93	223.87	\$5,596.80
121	Record Drawings from Contractor Redlined Documents		2.2 6.6				0.0			2.2	\$441.91	13.99	\$455.91
122	Warrantee Inspection Pre-commissioning Cathodic Protection Inspection and final		0.0				8.8			15.4	\$2,244.55	140.84	\$2,385.39
123	testing and commissioning.									0	\$0.00	0.00	\$0.00
199	Quality Control (QC) / Quality Assurance (QA)									0	\$0.00	0.00	\$0.00
	SUBTOTAL HOURS/UNITS:	81.4	411.4	0	0	0	979.7	0	0	1472.5			
	SUBTOTAL:	\$17,038.65	\$77,960.30	\$0.00	\$0.00	\$0.00	\$96,503.73	\$0.00	\$0.00		\$202,992.84	\$10,609.41	\$213,602.25
				0	2	<u>,</u>	070 7		<u> </u>				
	TOTAL HOURS BY EMPLOYEE:	81.4	411.4	0	0	0	979.7	0	0				

PHASE	TASK	Labor	Direct Exp	Subtotal	Subconsultant	SubTotal
FHASE	TASK	Costs	Cost	Subtotal	Costs	Subiotal
I	Task 100 - Services During Construction	\$202,992.84	\$10,609.41	\$213,602.25	\$106,187.00	\$319,789.25
	TOTAL:	\$202,992.84	\$10,609.41	\$213,602.25	\$106,187.00	\$319,789.25

Filename: H:\Projects\319 - Vineyard\05.300 Pipeline Designs\Admin\HAL SDC Task Order\[HAL Proposal Spreadsheet (AutoRecovered) Rev 1.xism]Data - Contingency in Hours

Outside Expense

COMMENT



\$6,230.00 \$6,235.00	
\$11,560.00	10 Month Active Construction Period, at 1/2 time, Rod Erickson or Rodco, plus time for JUB to make site visits; to resolve construction issues.
\$11,990.00	primarily JUB, some coordination with JUB
\$6,000.00	Some input from JUB, assume 3 CO max
\$22,370.00	
\$6,800.00	Assume 2.2 hours per week for 44 weeks active construction period
	Primarily by Rod, included above
\$12,800.00	JUB 12 payment requests
	22 meetings over 10-month Active Construction
\$1,000.00	JUB
\$15,490.00	JUB
\$5,712.00	JUB

\$106,187.00 Outside / Subconsultant Costs

TASK ORDER NO.<u>319.05.300</u> TO ENGINEERING SERVICES AGREEMENT

CLIENT: Vineyard City Effective Date of Agreement: October 31, 2017

THIS TASK ORDER NO. <u>319.05.300</u> TO ENGINEERING SERVICES AGREEMENT (this "TASK ORDER") is made and entered into as of the <u>23th</u> day of <u>November</u>, 2020, by and between CLIENT and HANSEN, ALLEN & LUCE, INC., ("HAL"), who agree as follows:

 PROJECT. The PROJECT associated with this TASK ORDER is described as follows: Vineyard City Pipelines and Meter Station Designs

The PROJECT SITE is located as follows: Various Locations in the City (See Attached Figure entitled "Proposed Phase 1 Pipes Appendix A")

- SCOPE OF SERVICES. The SCOPE OF SERVICES associated with this TASK ORDER is attached hereto as <u>Exhibit T.O. 319.05.300-A</u>.
- FEES. CLIENT shall reimburse HAL for services provided under this AGREEMENT on a time and materials basis with a Not-to-Exceed amount of \$323,623.00 in accordance with the HAL Standard Fee Schedule ("FEE SCHEDULE") attached hereto as <u>Exhibit T.O. 319.05.300-B</u>. CLIENT hereby agrees that all fees and charges set forth in the FEE SCHEDULE are acceptable to CLIENT, and CLIENT further agrees to pay all fees and charges to HAL in accordance with the ENGINEERING SERVICES AGREEMENT and FEE SCHEDULE.
- SCHEDULE. SERVICES associated with this TASK ORDER will be completed within by the end of June 2021 for Design, then 5-month bidding and construction period following written authorization from the CLIENT to HAL to proceed.
- ATTACHMENTS AND EXHIBITS. All attachments and exhibits referenced in or attached to this TASK ORDER are incorporated herein and are made a part of the ENGINEERING SERVICES AGREEMENT.
- 6. CLIENT has read and understood all ATTACHMENTS and EXHIBITS and agrees that such items are hereby incorporated into and made a part of the ENGINEERING SERVICES AGREEMENT.

IN WITNESS WHEREOF, CLIENT and HAL have executed this TASK ORDER as of the date first above written.

CLIENT: VINEYARD CITY	
By:	
Its: CITY MANAGER	
Attest: Kelly Weber	
Its: Deputy pecorder	

HANSEN, ALLEN & LUCE, INC.
By: Mairin E. Allen
Its: President
Attest: Jyh & all

Vice President Its:

Task Order 319.05.200 Page 1

SCOPE OF SERVICES

Summarized below are the project understanding, scope of work, and fee estimate.

PROJECT UNDERSTANDING

Vineyard currently receives all drinking water from Orem City and Central Utah Water Conservancy District (CUWCD) wholesale connections. Vineyard currently only has 0.5 MG of storage capacity for its drinking water system, with an agreement with CUWCD to provide 4 MG of storage through April 2021. Post April 2021, CUWCD is contracted to continue to provide 2.0 MG of capacity in its system. Vineyard must develop its own drinking water storage capacity to cover the deficit, which is projected to be 6 to 8 MG. Vineyard, has decided to locate the tank on the Vineyard Public Works property located at about 2100 West 1600 North in Vineyard. This location will require that water from the tank be pumped into the system via a booster pump station to provide the required pressures for the City's potable water system and for fire flows. This will also require additional and enlarged transmission pipelines from the tank location into the City Water System.

The City has requested that HA&L assist the City in providing design services and services during construction for the new tank, pump station, and pipelines. HAL is partnering with JUB Engineering to perform the work associated with the design of the pipelines and meter stations that will connect to the CUWCD wholesale supply system. HAL will perform the design for the tank and pump station, and JUB will perform the design for the pipelines and meter stations. HAL will coordinate the work by JUB. This Task Order applies to work associated with the pipelines and meter stations. HAL will coordinate the work by JUB. This Task Order applies to work associated with the pipelines and meter stations.

Work includes 1200 feet of 30-inch diameter pipeline, 4,000 feet of 24-inch pipeline, 2,500 feet of 20-inch pipeline, 12,000 feet of 18-inch pipeline, and three, meter stations. The pipelines and meter stations are illustrated on the attached figure, entitled "Proposed Phase 1 Pipes, Appendix A."

SCOPE OF WORK

The suggested scope of work by JUB for assisting the City in accomplishing this project is attached as Attachment 1.

ESTIMATED FEE

We propose a professional "not to exceed" engineering budget of \$323,623 to perform the services as outlined in this proposal. The following table summarizes the estimated engineering fee required to accomplish each task.

TASK	TASK DESCRIPTION	ENGINEERING FEE ESTIMATE
100	Project Management by HAL	\$38,000
200	Project Management, Preliminary Pipeline Design, and 60% Design JUB	\$130,586
300	Final Pipeline Design and Complete Bidding Documents	\$70,293
500	Bidding Support Services	\$6,308
600	Services During Construction & Reimbursable Expenses	\$78,436
	TOTAL ESTIMATED FEE	\$323,623.00

Included in Attachment 1 is a detailed manpower and cost breakdown by task and subtask, as well as assumptions included in our fee estimate.



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

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

PROJECT NAME: <u>Vineyard City Phase 1 Water Transmission Pipeline</u> CLIENT: Hansen, Allen & Luce (HAL) / Vineyard J-U-B PROJECT NUMBER: <u>50-20-059</u> CLIENT PROJECT NUMBER: <u>Click or tap here to enter text.</u> ATTACHMENT TO:

AGREEMENT DATED: 11/20/2020; or

□ AUTHORIZATION FOR ADDITIONAL SERVICES #X; DATED: Click or tap to enter a date.

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 1 - 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:

Vineyard City plans to construct a new 6 MG water storage tank within the City. A water transmission pipeline connecting three Central Utah Water Conservancy District (CUWCD) meter stations is required to provide water to the proposed storage facility within Vineyard City. HAL will provide the professional services necessary for the design for the water storage tank and pumping facility, and J-U-B will provide professional services necessary for the design, bidding and construction of Phase 1 of the proposed water transmission pipeline. The proposed pipeline is planned to be of various pipe diameters as shown on Exhibit 1-A. The preferred alignment has already been agreed upon and J-U-B's tasks, assumptions and deliverables are listed below.

PART 2 - 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 A: Project Management and Progress Meetings

- 1. Set up project into J-U-B's financial and record keeping systems for document retention and project controls.
- 2. Schedule and conduct a design kickoff meeting and site visit. Document meeting minutes and distribute them to the project team.
- 3. Conduct project planning and risk assessment.
- 4. Coordinate quality assurance / quality control (QA/QC) processes.
- Communicate and coordinate J-U-B team activities with kickoff and progress meetings as required.
- 6. Communicate and coordinate subconsultant activities under J-U-B.
- 7. Regularly monitor project status, budget and schedule.
- 8. Participate in 2 design review meetings at 60% and 90%.
- 9. Provide a monthly invoice including budget status and schedule.
- 10. Provide ongoing document handling and filing.
- 11. Conduct internal reviews of deliverables and at appropriate phases for quality control and assurance.

B. Task B: Evaluation of Alignments and Preliminary Engineering

For this task, J-U-B will:

- 1. Research existing utilities and collect mapping of existing utilities in the preferred pipeline alignment. Conduct preliminary utility investigations and obtain design blue stake information.
- 2. Coordinate with permittees (CUWCD, UDOT, UTA, UPPR) on concept level design concerns.
- 3. Review existing geotechnical investigation report at various locations on the preferred alignment.
- 4. Conduct topographic survey and utility locations of preferred alignment.
 - a. This scope includes topographic survey up to 25 feet either side of the proposed water line alignment determined previously, and within the public right-of-way.
- 5. Develop topographic base map and surface of preferred alignment.
- 6. Identify gaps in existing utility data.
- 7. Prepare preliminary plan and profile drawings of proposed piping.
- 8. Map corridor utilities and identify conflicts. Recommend utility conflict resolution and potential utility relocates. Coordination with utilities for request to relocate.
- Complete a subsurface utility investigation of preferred alignment at up to 24 locations completed by Utility Mapping Services (UMS).
- 10. Add located corridor utility data to base mapping and identify additional conflicts. Resolve apparent conflicts as stated previously.
- 11. Complete 60% level design drawings, including plan and profile drawings, and preliminary design of three connections to CUWCD water supply.
- 12. Prepare technical memorandum summarizing findings and design decisions.
- 13. Prepare a preliminary engineer's estimate of probable construction costs.
- 14. Prepare a Table of Contents for Technical Specifications.
- 15. Submit to Vineyard and HAL for 60% review and comment.

Assumptions:

- a) UMS will perform a subsurface investigation of existing utilities (at up to 24 locations) will be performed on the preferred alignment.
- b) Geotechnical investigation was completed previously by RB&G Engineering.
- c) Vineyard will coordinate with affected property owners.
- d) 2 rail crossings are anticipated across UTA and UPRR.
- e) 1 of the 3 metered connections to CUWCD that are part of this project is existing and may require modifications.
- f) Meter connections will include a concrete vault, flowmeter, valves and appurtenances, system controls, and an RTU panel for SCADA interface.

Deliverables:

- 1. 60% complete design plan and profile drawings.
- 2. Preliminary design for new and modified metered connections to CUWCD.
- 3. Table of Contents for technical specifications.
- 4. Preliminary Opinion of Probable Cost for alignments.

C. Task C: Final Design and Complete Bidding Documents

For this task, J-U-B will:

- 1. Incorporate comments from 60% review with City and HAL.
- 2. Complete final design plan and profile drawings of transmission pipeline.
- 3. Complete detailed design of three metered connections to CUWCD.
- 4. Share most recent design information with CUWCD, UDOT, UTA and UPRR.
- 5. Prepare Right-of-Way and up to 6 easement descriptions as required by the alignment.
- 6. Prepare technical specifications and front-end bidding documents.
- 7. Structural engineering design and analysis of structures.
- 8. Complete final design details, including metered connections to CUWCD.
- Prepare and submit agency (CUWCD, UDOT, UTA and UPRR) packages and request permit approval.
- 10. Prepare 90% design documents for review with City and HAL.

- 11. Address final comments and finalize bidding documents.
- 12. Submit for plan review approval from Utah Division of Drinking Water (DDW).
- 13. Prepare final engineer's estimate of probable construction costs.

Assumptions:

- 1. Prepare ROW and Easement documents (up to 6) necessary for the proposed alignment.
- Vineyard City will coordinate with individual property owners. J-U-B can provide a supplemental scope of work to assist with coordination.
- 3. Hansen, Allen & Luce (HAL) will provide water tank overflow elevation.
- 4. HPE will provide electrical engineering (power and controls) services for the metered connections with CUWCD.
- 5. J-U-B will coordinate necessary permit approvals.

Deliverables:

- 1. Approval packages for permitting agencies
- 2. 90% Design Drawings and Technical Specifications
- 3. 90% Engineer's Opinion of Probable Construction Cost
- Complete Bidding Documents (front-end documents, technical specifications, and design drawings).

D. Task D: Bidding Support Services

For this task, J-U-B will:

- 1. Prepare notice inviting bids as part of the bidding documents.
- 2. Submit bidding documents to the City.
- 3. Prepare for and conduct pre-bid meeting.
- 4. Respond to bidder's questions and prepare addenda as necessary.
- 5. Attend bid opening.
- 6. Review bids for completeness, prepare bid tabulation and make recommendation for award.
- 7. Prepare (3) original sets of contract documents.

Assumptions:

1. Bidding will be a traditional open bidding process.

Deliverables:

- 1. Pre-Bid meeting agenda.
- 2. Bidding Documents
- 3. Addenda
- 4. Bid tabulation and recommendation for award
- 5. (3) original sets of contract documents

E. Task E: Construction Administration Services

For this task, J-U-B will:

- 1. Prepare and conduct a pre-construction meeting with the awarded Contractor.
- 2. Review Contractor provided submittals.
- 3. Respond to requests for information.
- 4. Review Change Order requests.
- 5. Review and recommend applications for payment from Contractor.
- 6. Conduct bi-weekly construction progress meetings.
- 7. Provide Resident Project Representative for construction observation, prepare progress reports and record keeping.
- 8. Substantial completion review.
- 9. Prepare record drawings from Contractor redlined documents.
- 10. Submit request for operating permit from DDW.

Assumptions:

- 1. 16 weeks of active construction.
- 2. 10 bi-weekly construction progress meetings. J-U-B will provide bi-weekly report updates.
- 3. Resident Project Representative onsite for 14 hours per week during active construction.

Deliverables:

- 1. Pre-Construction Agenda
- 2. Record Drawings
- 3. Construction reports including photographic documentation.

PART 3 - 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. Topographic and monument survey of proposed water storage tank site
 - 2. Design of proposed new water storage tank and appurtenant facilities.
- 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. Additional construction administration services.
 - 2. Additional optimization and analysis of alignment.
 - 3. Hydraulic transient analysis and mitigation through design alternatives.

PART 4 - BASIS OF FEE AND SCHEDULE OF SERVICES

- A. CLIENT shall pay J-U-B for the identified Services in PART 2 as follows:
 - 1. For 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.
- B. Period of Service: If the period of service for the task identified above is extended beyond 12 months, the compensation amount for J-U-B's services may be appropriately adjusted to account for salary adjustments and extended duration of project management and administrative services.
- C. 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, including impacts from the COVID-19 pandemic and related business restrictions.
- D. The following table summarizes the fees and anticipated schedule for the services identified in PART 2.

Task Number	Task Name	Fee Type	Amount	Anticipated Schedule
A	Project Management	Time and Materials (Estimated Amount Shown)	\$9,896.	Concurrent with work progress
В	Preliminary Engineering, Permitting and 60% Design	Time and Materials (Estimated Amount Shown)	\$120,690.	Draft for CLIENT review 4 months after executed contract, notice to proceed, and receipt of all required data
С	Final Design and Complete Bidding Documents	Time and Materials (Estimated Amount Shown)	\$70,293.	Draft for CLIENT review 6 8 months after executed contract, notice to proceed and receipt of all required data
D	Bidding Support Services	Time and Materials (Estimated Amount Shown)	\$6,308.	Concurrent with work progress
E	Construction Administration Services	Time and Materials (Estimate Amount Shown)	\$75,836.	Concurrent with work progress
F	Reimbursable Expenses	Time and Materials (Estimate Amount Shown)	\$2,600.	Concurrent with work progress
		Total:	\$285,623.	

The above fees were developed from the Work Plan attached as Exhibit 1-B.

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.

Exhibit(s):

- Exhibit 1-A: Conceptual Alignment of Phase 1 Water Transmission Pipeline
- Exhibit 1-B: Work Plan
- Exhibit 1-C: [proposals from UMS and HPE dated November 19, 2020]

For internal J-U-B use only:

PROJECT LOCATION (STATE): Utah

TYPE OF WORK: City

GROUP: Water/Wastewater

PROJECT DESCRIPTION(S):

- 1. Water Supply/Treatment/Distribution (W03)
- 2. Municipal/Utility Engineering (203)



Date: 11/16/20 Document Path

Date: Project No.: Project: Phase 1 Water Transmission Piping Task # 8-5 8-7 84 8-1 8-2 8-3 A-1 A-2 A-3 A-5 No. B-15 B-14 **B-13** B-12 B-11 B-10 B-9 B-8 51 0 æ Subtotal (hrs) Subtotal Review previous geotechnical investigation reports Conduct topographic survey of preferred alignment Coordinate with permittes (CUWCD, UDOT, UTA and UPPR) on concept Preliminary Engineering, Permitting and 60% Design Utility mapping research of preferred alignment Subtotal 90% Design Review meeting Budget and Schedule Monitoring Project Management and Progress Meetings Project Kickoff Meeting and Project Setup **Final Design and Complete Bidding Documents** Submit to Vineyard for review and comment Prepare design technical memorandum summarizing design decisions Complete 60% level design drawings, including plan and profile drawings Incorporate results from subsurface investigation - follow up with Subsurface investigations - potholing conflict resolution and potential utility relocates. Coordination with Map corridor utilities and identify conflicts. Recommend required utility Prepare preliminary plan and profile sheets using base map and include 60% Design Review Meeting November 20, 2020 Prepare a Table of Contents for Technical Specifications Prepare a preliminary engineer's estimate of probable construction costs and preliminary design of three connections to CUWCD permitting agencies mapped existing utilities Develop topographic base map and surface of preferred alignment level design concerns Monthly Client Update Reports / Invoicing Quality Control/Quality Assurance Process Oversite Incorporate comments from 60% review with City internal review utilities for request to relocate. Identify gaps in existing utility data total (hrs) Staff ID # **Total Hrs** 432 18 32 127 38 21 6 20 26 8 74 55 44 80 26 14 0 11 6 8 8 4 0 4 10 00 23 0 00 is is s 5 s s s 10 s s so so S \$ 5 s ~ ~ s s s 5 5 ŝ Total S 120,690.16 16,118.76 65,190.00 2,849.68 1,332.00 8,370.00 1,656.00 2,526.00 1,360.00 1,360.00 3,398.04 1,638.00 3,637.00 1,332.00 9,896.00 5,555.36 3,395.84 4,067.52 3,060.00 2,452.00 1,732.00 1,026.00

Client:

Exhibit 1-B

Vineyard City - Hansen, Allen & Luce, Inc.

C-3 C-2

Complete design of (3) metered connections to CUWCD

14,566.76

8,903.52

Complete final design plan and profile drawings of transmission pipeline

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513.00	5	ω	Review submitted bids and prepare a bid tabulation	24
207.00	5	-	Participate in bid opening	2.0
1.026.00	5	6	Respond to questions and issue addenda as necessary	D-2
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666.00	5	4	Submit for plan review approval from DDW	C-11
5,220.36	s	36	Address final comments and finalize bidding documents	C-10
6,403.04	s	40	Prepare 90% design review documents for review with City and submit	C-9
4,606.76	s	34	Prepare and submit agency (CUWCD, UDOT, UTA and UPRR) packages.	C-8
6,900.76	\$	57	Prepare final design details	C-7
2,349.00	s	15	Structural engineering design and analysis	C-6
2,862.00	s	18	Prepare technical specifications and front-end bidding documents	C-5
7,499.00	s	45	Prepare ROW and easement descriptions as required	C-5
5,192.00	s	32	CUWCD, UDOT, UTA and UPRR	C-4
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Page 2 of 2 Work Plan and Fee Proposal_Tasks_Hrs Hegerhorst Power Engineering, Inc.

708 East 50 South American Fork, Utah 84003 Telephone: (801) 642-2051 Fax: (801) 642-2154

November 19, 2020

Attn: Delmas Johnson J-U-B ENGINEERING 240 West Center St., #2004 Orem, UT 84097-6322

Subject:Electrical Engineering ProposalRE:Vineyard City Metering Stations

Hegerhorst Power Engineering (HPE) Company is providing this proposal to JUB Engineering, Inc (JUB) for electrical engineering services related to specifying, designing and preparing construction drawings for three Vineyard City (VCI) Metering Vaults.

BASIS:

For the project, this proposal is based on an email from JUB.

ASSUMPTIONS:

This proposal is also based on the following assumptions:

Technical Assumptions:

- 1) The metering vaults will have a Vineyard City and a Central Utah Water Conservancy District (CUWCD) RTU.
- All vaults will include AC power, lighting, exhaust fan controlled by a time switch, floor flood switch(es) and power outlet. The vaults will be configured to CUWCD's standard vault design as far as practical.
- Metering vaults may include electric operated valve actuators, with remote control/monitoring by a VCI.

Administrative Assumptions:

- 1) If permitted, project coordination meetings will be held at VCI's offices. If not, coordination meetings will be virtual.
- 2) The project will be done on AutoCAD v. 2018 or newer release.
- 3) That the drawings we prepare will be on JUB title block, similar to previous CUWCD projects.
- 4) The drawings will be published as 11x17 format. HPE will print the final copy in our office. The final drawings will be stamped and signed by a Utah Professional Engineer. Drawings will be electronically delivered to JUB.
- 5) HPE will prepare our drawings using drafting standards previously used on JUB's projects.
- 6) HPE will publish an Electrical (Division 26, six digit numbering system) specification sections typically provided on recent JUB projects. For publishing HPE will provide JUB .docx files. JUB will be responsible to provide to HPE, ASAP:

- header and footer information
- project font
- project pitch
- margins, etc.
- so our edited files will match your specifications.
- 7) JUB shall provide to HPE, a Table of Contents of the General and Technical specification sections prepared by JUB. HPE will then coordinate specification references as required to JUB's sections.

SCOPE OF WORK:

ADMINISTRATIVE ACTIVITIES

- 1) HPE has included time to participate in the project Kickoff meeting, as needed.
- 2) HPE has included time to participate in one review meetings with CUWCD, as requested.
- 3) HPE will provide progress drawings to JUB via e-mail as requested.
- 4) Phone calls for coordination purposes are also anticipated.
- 5) HPE has included time to incorporate comments from CUWCD and JUB as needed.
- 6) HPE has included in-house reviews and team coordination meetings as necessary.

ELECTRICAL/INSTRUMENTATION DESIGN ACTIVITIES

- 1) Based on the anticipated electrical loads, HPE will prepare new RMP Service forms for the electrical service to the vaults. It is anticipated all vaults will be serviced by Rocky Mountain Power.
- 2) HPE will include RMP load sheet on the electrical drawings.
- 3) HPE will include on electrical site plans, a proposed location for the utility metering equipment and as required, a location for a CUWCD SCADA RTU.
- HPE will include sizing the wire/conduit to all the electrical and instrumentation/control loads as required.
- 5) HPE will include instrumentation and controls as required.
 - Valve actuators (as required).
 - Flow Metering (as required).
 - Vault floor high water switch.
 - Ventilation fan electrical controls.
- 6) HPE will provide support and answer questions to bidders. We will also assist as requested to evaluate bidders.

DELIVERABLES

- 1) HPE will deliver via e-mail to JUB, electronic copies of electrical specifications as .pdf files. We are anticipating JUB to electronically publish the bidding documents.
- 2) HPE will deliver to JUB, 11x17-inch .pdf files of the drawings. The drawings will be stamped and signed by a Utah Professional Engineer.

SERVICES DURING CONSTRUCTION

HPE has included time for the following construction tasks:

- 1) Supporting a pre-construction meeting as requested.
- 2) Providing submittal review as requested.
- 3) Responding to contractor electrical questions.
- 4) Providing a final site inspection for each vault.
- 5) As-build drawings (as needed).
- 6) Review final O&M Manual submittal (as requested).

EXCLUDED WORK

The following items are not included in this proposal. Should these be required, HPE will respond as requested and negotiate additional fees appropriate to the work.

- Although the project will be designed to interface with a CUWCD RTU, HPE is not anticipating detailing the wiring diagrams or assembly for the SCADA RTU's. HPE anticipates that the detail RTU design will be by either CUWCD or Vineyard's SCADA Contractor.
- 2) Preparation of detailed electrical construction cost estimates. (Some Owners have requested a detail construction cost estimate. HPE can do this, but typically will require a slight fee adjustment.)
- 3) Preparation of any bills of material. (Some projects Owners have requested that HPE prepare detailed Bills of Materials to ensure equity in bidding and quality control during construction.) The time to prepare these are not included in this proposal.
- 4) Obtaining any permits for construction activities.
- 5) Printing or re-producing electrical drawings or specifications, except as noted.

FEE SCHEDULE

Refer to attached schedule for a breakdown of tasks and hours.

Design:

\$1,330.00	Administrative
\$1,600.00	Engineering
\$4,340.00	Document Preparation
\$616.50	Expenses
\$7,526.00	Total Electrical Fee

Design services are anticipated to be hourly, not-to-exceed.

Construction Services:

\$1,380.00	Administrative
\$800.00	Engineering
\$320.00	Document Preparation
\$148.00	Expenses
\$2,648.00	Total Electrical Fee

Construction Services are anticipated to be hourly.

INSURANCE

HPE will provide Professional Errors and Omissions insurance, with a maximum limit of \$2,000,000 limit on coverage. HPE will also provide appropriate Workers Compensation Insurance as required by the State of Utah.

OUT OF SCOPE BILLING RATES

Any work and expenses which are beyond the scope of work described in this proposal which is requested and approved by JUB will be performed on an hourly basis.

EFFECTIVE DATE

This proposal will remain effective until the close of business, 5:00 p.m., prevailing local time, on November 27, 2020.

Should you have any questions or desire any additional information, please feel free to contact me.

Sincerely,

HEGERHORST POWER ENGINEERING, INC.

Kart Hynheut

Keith B. Hegerhorst, P.E. President

\\HPESERVER-PC\HPE_Projects\20.000\JUB Engineers\Vineyard Meter Stations\proposal.wpd

Hourly Labor Rates

Professional Engineer	\$160.00
Design Engineer I	\$130.00
Draftsperson	\$80.00
Secretary	\$50.00

Notes: 1. The above rates include salary, payroll burdens, and other overheads.

- 2. For travel, charges begin when employees leaves home base and terminated upon return thereto.
 - 3. The hourly labor rates as shown above apply to straight time, i.e. forty hours per week, only. Overtime, if required and authorized by JUB, or their authorized representative, will be charged at the hourly labor rate as shown above times a factor of 1.50.
 - 4. The above hourly rates include all reimbursable items except as follows: (I) mileage, which shall be charged at the rate of \$0.54 per mile, and/or (ii) all outside services which shall be billed at invoice cost times a factor of 1.00 and/or (iii) out-of-town travel and associated expenses which shall be billed at cost times a factor of 1.00.
 - 5. The above rates apply for the time a respective individual is serving in the capacity shown.
- 6. Outside services include consultants, reproduction, supplies, per diem, and the such.

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	hting Plan (3 sites)	0.75		1.00			\$200.00		
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 Utility Mapping Services, Inc. Utility Infrastructure Management, Engineering, Mapping and Geophysics

 WWW.UMSI.US
 Ph: 801.972.5090
 Fax: 406.495.9923

 Helena MT, Salt Lake City UT, St. Cloud MN, Seattle WA, Duluth MN, Sioux City IA, Houghton MI, San Diego CA, Houston TX, Denver CO, Phoenix AZ

November 19th, 2020

Mr. Delmas W. Johnson, P.E. J-U-B Engineers, Inc. 240 West Center Street, Suite 200 Orem, Utah 84057 801.226.0393

RE: Vineyard Water Main Vacuum Excavation Services

Dear Mr. Johnson:

Utility Mapping Services, Inc. (UMS) is pleased to submit this cost estimate to conduct excavation services for the subject project. For this effort, UMS is conducting, and thereby is only responsible for, specific vacuum excavations detailed in this work scope. UMS shall not be held responsible for the accuracy or completeness of all previous utility mapping activities completed by others on this project, nor is it implied herein that the efforts of any field campaign will include performing quality assurance review, corrections, updates, or assumption of any liability for utility information depicted by others. If, during the course of field operations, inconsistencies are incidentally identified within the data set, UMS will record and communicate such observations to J-U-B Engineers, Inc.

UMS estimates that 4 holes will be completed per day of field operations at the hole locations outside of the railroad right of way. UMS estimates that 2 holes will be completed per night of field operations at the hole locations that are within 25-feet of the railroad due to limited access requirements. The production rate will be dependent on the targeted utility type, soil conditions, location of excavation, depth of utility, traffic control requirements, pavement material, patching requirements, etc. The estimated cost to complete up to 24 vacuum excavations is \$56,661.50 (see attached cost spreadsheets for a breakdown of the anticipated costs). The vacuum excavations will consist of excavating a hole approximately 14-16 inches wide and up to 6-7 feet deep. A two-person UMS crew (in addition to the vacuum excavation crew) will perform the vacuum excavations, log the test hole data, prepare field notes and sketches. UMS's cost estimate for these services is based on the following assumptions:

- J-U-B Engineers, Inc. will be responsible for identifying the proposed vacuum excavation locations. UMS will dig at these targeted locations, but will not be responsible for any mismarked, mislabeled, or missing utilities.
- J-U-B will have a representative on site to make final determinations regarding excavation efforts as a QL B designating effort has not and will not be performed on the project.
- Night work will be required for some excavations, specifically those within the UTA ROW.
- Vacuum excavations which fail to expose the utility after reaching a reasonable depth (typically 6-7') will still be considered a completed excavation.
- A possibility exists that existing conditions (i.e. groundwater, large boulders) may prevent crews from exposing the targeted utility. In addition, utilities may be installed at a depth beyond the limits of the vac excavation equipment.
- Each excavation is accessible to the vac truck and crew.
- Excavations are anticipated to all be located in the asphalt or concrete roadway. The excavations are assumed to require coring services, flowable fill in each test hole and Utilibond to replace/repair the cored plug.

- T-patches or hot mix asphalt repair is not included in the scope of work or cost estimate.
- The estimated costs for traffic control and permits for Vineyard City, UTA and UPRR have been included with this proposal, actual costs will be invoiced.
- Submittal documents will include log sheets indicating utility depth, photos of each excavation and field sketches.
- UMS will discuss with the project manager and seek approval prior to performing any work outside this original scope.

At UMS's discretion, a separate cost estimate may be submitted should existing conditions differ from those stated in this list of assumptions.

This effort shall not be construed as being in compliance with ASCE/CI 38-02 - *Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data*, nor is it implied herein.

Please contact Cameron Greer (801.910.5366, cgreer@umsi.us) with any questions regarding this submittal.

Sincerely, Utility Mapping Services, Inc.

amin lpm

Cameron Greer, E.I. Utah Project Manager

Attachment: Cost estimate

Vacuum Excavation Total \$56,661.50

Vendor Services, Permits, Traffic Control

37800.00

*traffic control, vac truck and permit costs are approximate; actual costs will be invoiced. THIS ESTIMATE IS VAILD FOR 60 DAYS FROM THE DATE POSTED AT THE TOP OF THIS PROPOSAL

Traffic Control (does not include flaggers)	Daytime Flowable Flow	Nighttime Flowable Fill (includes \$3,000 charge for night operations)	Permits (Vineyard (assumed to be waived), UPRR, UTA)	Mobilization and Dumps	Pavement Coring	Pavement Repair and Resurfacing	Vacuum Excavation Truck and Crew
day	ea	ea	ea	day	ea	ea	day
10.00	1.00	1.00	2.00	9.00	16.00	16.00	24.00
1000.00	1200.00	4200.00	2500.00	200.00	125.00	175.00	450.00
10000.00	1200.00	4200.00	5000.00	1800.00	2000.00	2800.00	10800.00

UMS Services 18861.50

	[
886.5	Total Direct Costs	Total		
632.5	0.575	1100.00	mile	Specialty Field Vehicle
108.0	27.00	4.00	hour	Geofeature Database Fee
146.0	146.00	1.00	day	Survey Equipment (Trimble R8 RTK GPS)
0.0	11.45	0.00	hour	CADD Station
	Unit cost	No. of Units	Unit	Item

17975.00	Labor Costs	-			
99.90	1.66%	FCCM			
1915.19	12.00%	Fixed Fee			
15959.90	165.19%	Overhead	Total Labor and Overhead		
6018.29	Total Raw Labor	Total			
17975.00	457.49	0.00	0.00	3688.10	4.53
	114.37	113.71	82.66	102.45	3.15
6018.29	153.17	0.00	0.00	1234.83	2.26
	38.29	38.07	27.68	34.30	7.88
157	4.0	0.0	0.0	36.0	84.0
8.0	2				
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17975.0	457.49	0.00	0.00	3688.10	9504.53	595.60	595.55	1447.29	1686.43	Total Burdened Rates	
	114.37	113.71	82.66	102.45	113.15	148.90	148.89	111.33	140.54	Fully Burdened Rates	
6018.2	153.17	0.00	0.00	1234.83	3182.26	199.42	199.40	484.58	564.64	Total Direct Rates	
	38.29	38.07		34.30	37.88	49.85	49.85	37.28	47.05	Hourly Rates	
	4.0	0.0		36.0	84.0	4.0	4.0	13.0	12.0	Total Hours	
8.0	2					1	1	2	2	2900 Submittal Preparation	
13.0				2	4	1	1	ω	2	2800 Project Documentation & QA/QC	
4.0								4		2700 Database Development	
0.0										2600 CADD Development	
4.0					4					2500 Engineering Survey	
48.0					48					2400 Utility Locating	
28.0				24	4					2300 Test Hole Staking/Designating	
24.0				6	18					2200 Mobilization	
28.0	2			4	6	2	2	4	8	2100 Work Plan, H&S, Traffic, Permits	
Total Hours	Clerical	Engineer	Specialist I	Specialist II	Manager	Engineer	Engineer	Engineer	Manager	Project Task Description	k No.
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	Project Task		Utility Vacuu
2100	No.	i (n Excavations:
Work Plan, H&S, Traffic, Permits	Project Task Description		Assuming 24 vacuum excavation:
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4	Engineer	Project	ss than 7-feet i
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6	Manager	Field Ops	t. Twelve of the
4	Specialist II	Field	holes are assum
	Specialist I	Field	ned to be with
	Engineer	Staff	in 25-feet of
2	Clerical		the railroad trac
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Phone: 801 226 0303	Address: 240 West Center Street, Suite 200, Orem, UT 84057	Contact: Delmas W. Johnson, P.E.	Owner: Vineyard City	Date: November 19, 2020	UMS Project No: 11633.1	Project Name: Vineyard Water Main	Cost Proposal for Utility Vacuum Excavations	Utility Mapping Services, Inc.
			INC/ email: cgreer(www.umsi.us	801.972.5090	West Valley City, UT 84119	2724 South 3600 West, Unit H	Utility Mapping
			greer@umsi.us			ty, UT 8411	00 West, Ur	apping Services, Inc.

Phone: 801.226.0393

Email: dwjohnson@jub.com

STANDARD FEE SCHEDULE 2020

PERSONNEL CHARGES

Client agrees to reimburse Hansen, Allen & Luce, Inc. (HAL), for personnel expenses directly related to the completion of the project, in accordance with the following:

Senior Managing Professional	\$194.55/hr
Managing Professional	\$169.75/hr
Senior Professional II	
Senior Professional I	\$140.45/hr
Professional III	\$135.45/hr
Professional II	
Professional I	
Professional Intern	\$102.05/hr
Engineering Student Intern	\$52.95/hr
Senior Designer	
Senior Field Technician	\$109.05/hr
Field Technician	\$88.60/hr
CAD Operator	\$88.60/hr
Public Relations Specialist	\$135.45/hr
Administrative Assistant	\$65.00/hr
Professional Land Surveyor	\$125.25/hr
1 Man GPS Surveying Services – PLS	\$148.00/hr
Expert Legal Services	\$300.00/hr

DIRECT CHARGES

Client also agrees to reimburse HAL for all other costs directly related to the completion of the project. Direct charges shall include, but not be limited to, the following:

Communication, Computer, Reproduction	\$6.00 per labor hour
Out-of-town per diem allowance (lodging not included)	
Vehicle	
Outside consulting and services	Cost plus 10%
Other direct expenses incurred during the project	Cost plus 10%
Trimble GPS Unit	
Drone Unit\$500.00 per da	y plus data conversion costs
Data Logger/Transducer	\$125.00 per week

Note: Annual adjustments to personnel and direct expense charges will occur in January of each year. Mileage rate changes are based on fuel prices.





July 27, 2021

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

RE: Vineyard City Pipelines and Meter Station Designs Budget Amendment No. 1 - Additional Services

This document serves as Amendment 1 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.

As we have discussed in several meetings with you, JUB Engineers has performed significant additional services related to the above referenced project. We have also expanded their services to include additional pipelines such as an additional pipeline in Mill Road from 400 North to Center Street and a pipeline in 400 North from the Railroad to Mill Road. We have deleted from their contract the meter stations(they will be designed by Central Utah Water Conservancy District) and the pipeline in 800 North from Mill Road to Geneva Road after having already performed significant work on this pipeline segment. This pipeline segment was deleted after CUWCD indicated that they would prefer that we make our connection to their system in 400 North instead of upsizing the existing connection in 800 North at Geneva Road. 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 \$144,601 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)	\$139,315.00
2	HAL 2% MARKUP [*]	\$2,786.00
3	Additional HAL Coordination Time Associated With These Modifications	\$2,500.00
	Total Amendment No. 1 Fee	\$144,601.00

• 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.

Mr. Chris Wilson July 27, 2021 Page 2

Total Contract Price prior to this Amendment = \$323,623 Amendment No. 1 Request = Total Contract Price with Amendment =

Accepted by CLIENT Chris Wilson By: Assistant Public Works Director Its:

\$144,601 \$468,224

HANSEN, ALLEN & LUCE, INC. Allen By∢ ante Principal Its:



Mr. Chris Wilson, P.E. Public Works Director City of Vineyard 125 S Main Street Vineyard, Utah 84059 December 2, 2021

RE: Vineyard City Pipelines and Meter Station Designs Budget Amendment No. 2 - Additional Services

Dear Mr. Wilson:

This document serves as Amendment 2 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.

Due to recent modifications made by Central Utah Water Conservancy District to their proposed system plans, they have indicated that they would like us to relocate our connections to their system to their 800 North meter station and to a revised meter station location along 1600 North (approximately 1400 feet east of the previous proposed connection). These proposed modifications have resulted in increased design requirements for the pipelines. The additional locations of water line design include extending a 24" pipe along Vineyard Connector (800 North) from Mill Road to the existing Central Utah Water Conservancy District Connection Meter Station adjacent to Geneva Road, and extending the 24" tank supply pipe in the alignment of the future 1600 North from the entrance of the CUWCD property to a connection point near the east end of the CUWCD property. The change also includes elimination of the railroad crossing at 400 North.

Due to current volatility in the availability and cost of PVC pipe, Vineyard City has requested that J-U-B bid PVC and ductile iron pipe as alternates. Due to the corrosive nature of the soil, this requires that J-U-B design a cathodic protection system against corrosion of the ductile iron pipes. Thus, included in this Budget Amendment No. 2 is corrosion control design for ductile iron pipe, which is to be included in the ductile iron pipe bidding alternate.

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 \$55,643 for the extra work. The following table summarizes the estimated engineering fee required to accomplish this extra work.

Mr. Chris Wilson December 2, 2021 Page 2

ITEM	TASK DESCRIPTION	ENGINEERING FEE ESTIMATE
1	JUB Additional Costs (See Attachment 1)	\$54,552.00
2	HAL 2% MARKUP	\$1,091.00
	Total Amendment No. 2 Fee	\$55,643.00

• 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 =	\$468,224.00
Amendment No. 2 Request =	\$ 55,643.00
Total Contract Price with Amendment =	\$523,867.00

Accepte						
CLIENT	Chul					
By:	Chris Wilson					
Public Works Director						

HANSEN, ALLEN & LUCE, INC. By: <u>Mairin & Allen</u> Its: <u>Principal</u>



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

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

PROJECT NAME: <u>Vineyard City Phase 1 Water Transmission Pipeline</u> CLIENT: Hansen, Allen & Luce (HAL) / Vineyard City J-U-B PROJECT NUMBER: <u>50-20-059</u> 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 1 - 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 changes covered by this modification relate to corrosion protection and water line design in additional locations.

Due to current volatility in the availability and cost of PVC pipe, Vineyard City has requested that J-U-B bid PVC and ductile iron pipe as alternates. Due to the corrosive nature of the soil, this requires that J-U-B design a cathodic protection system against corrosion of the ductile iron pipes.

The additional locations of water line design include extending a 24" pipe along Vineyard Connector from Mill Road to the Central Utah Water Conservancy District Connection Point and extending the 24" pipe in the alignment of the future 1600 North from the entrance of the CUWCD property to a connection point near the east end of the CUWCD property. The change also includes elimination of the railroad crossing at 400 North.

PART 2 - 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 A (aka Task 100): Project Management

J-U-B anticipates spending time on the following additional subtask:

Subtask 9. Additional Work: Project management related to additional work described in this contract modification:

- a. Scoping, arranging for, and scheduling additional activities
- b. Plan and schedule additional quality control and quality assurance activities
- c. Include additional team members and coordination of additional work
- d. Monitor progress of additional work

B. Task B (aka Task 200): Preliminary Engineering, Permitting, 60% Design

Subtask 20. Additional Work: Preliminary design work related to extension of water lines in 1600 North and Vineyard Connector.

- a. Add 1600 North roadway and utilities design provided by others to the CAD basemap.
- b. Identify possible horizontal alignments of the water line in the future 1600 North; review potential conflicts with Vineyard City
- c. Establish preliminary horizontal and vertical alignment of 1600 North water line
- d. Restore the Vineyard Connector pipeline alignment that was identified earlier in the project; identify potential conflicts and propose means to address them
- e. Perform quality control reviews of the preliminary design and review the 60% design of the water lines in 1600 North and Vineyard Connector with the City and HAL.

C. Task C (aka Task 300): Final Design and Complete Bidding Documents

- J-U-B will perform the following additional tasks:
 - Subtask 14. Remove Subtask: Final design of 400 North railroad crossing, including design, plan preparation, and submitting agency packages.
 - Subtask 16. Additional Work: Preliminary testing for cathodic protection system design
 - a. Review available background information, including geotechnical boring logs and land surveying reports
 - b. Perform site visit to:
 - i. Collect deep well soil resistivity data by the Wenner Four Electrode method (ASTM G57) at pin spacing necessary for estimated deep well depth.
 - ii. Identify foreign rectifiers and other sources of possible stray current
 - c. Includes travel expenses and equipment for testing (multimeter, grounding pins, current interrupter, 2000 LF of 18ga test wire with reel)

Subtask 17. Additional Work: Cathodic protection system design

- a. Provide a technical specification, mark-up plan and profile sheets, and provide cathodic protection system design details for both ductile iron and PVC pipe designs.
- b. Review and respond to review comments, incorporate comments and changes into plans.
- c. Prepare opinion of probable construction cost
- Subtask 18. Additional Work: Final design phase work related to extension of water lines in 1600 North and Vineyard Connector
 - a. Incorporate comments from 60% review with City and HAL
 - b. Prepare final design plan and profile drawings
 - c. Include additional areas in 90% design documents and perform quality control reviews
 - d. Address final comments and finalize bidding documents
 - e. Include additional areas in quantity takeoff

D. Task D (aka Task 400): Bidding Support Services

J-U-B anticipates spending additional time on the following subtask as a result of the additional work:

Subtask 2. Respond to bidders questions and submit addenda as necessary – address questions related to the cathodic protection system and differences in system design depending on the pipe material type

a. Assumption: we will not need to issue a separate addendum related to cathodic protection.

E. Task E (aka Task 500): Construction Phase Services

J-U-B will perform the following additional tasks:

Subtask 12. Additional Work: Pre-commissioning corrosion protection testing

a. Test and record pipe-to-soil potentials at every test station

Subtask 13. Additional Work: Final testing and commissioning of cathodic protection system

- a. Test and record pipe to soil potentials after pipeline has been allowed to polarize for a minimum of 2 weeks.
- b. Confirm ductile iron pipeline continuity.
- c. Work with Contractor to adjust rectifier output after testing potentials.
- d. Includes travel expenses
- Subtask 14. Additional Work: Construction engineering work related to additional volume of construction related to extension of water lines in 1600 North and Vineyard Connector. The change in piping adds about 3,300 linear feet of pipe to the 18,500 previously in the project; it also removes one railroad crossing. The additional length is an increase of between 15% and 20%. We estimate an increase of about 15% in construction engineering.

PART 3 - 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. Provide access to land as needed through Vineyard City
 - 2. Review and comment on cathodic protection system design (CLIENT and Vineyard City)
- 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.
 - 2.

PART 4 - BASIS OF FEE AND SCHEDULE OF SERVICES

- A. CLIENT shall pay J-U-B for the identified Services in PART 2 as follows:
 - 1. For 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.
- B. Period of Service: If the period of service for the task identified above is extended beyond 12 months, the compensation amount for J-U-B's services may be appropriately adjusted to account for salary adjustments and extended duration of project management and administrative services.
- C. 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.

D. The following table summarizes the additional fees for the services identified in PART.	D.	The following table summ	narizes the additional fe	ees for the services id	entified in PART 2.
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Task Number	Task Name	Fee Type	Amount	Anticipated Schedule
A (100)	Project Management	Time and Materials (Estimated Amount Shown)	\$3,802	Concurrent with work progress
B (200)	Preliminary Engineering, Permitting, 60% Design	Time and Materials (Estimated Amount Shown)	\$6,917	Concurrent with work progress
C (300)	Final Design and Complete Bidding Documents	Time and Materials (Estimated Amount Shown)	\$29,514	Concurrent with work progress
D (400)	Bidding Support Services	Time and Materials (Estimated Amount Shown)	\$592	Concurrent with work progress
E (500)	Construction Phase Services	Time and Materials (Estimated Amount Shown)	\$13,726	Concurrent with work progress
		Total:	\$54,552	

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.

- E. The above fees were developed from the Work Breakdown Structure (WBS) attached as Exhibit 1-A.
- F. Exhibit 1-B contains the modified anticipated schedule for the remainder of the project, including the services identified in PART 2.

Exhibit(s):

- Exhibit 1-A: Work Breakdown Structure
- Exhibit 1-B: Anticipated Schedule

For internal J-U-B use only:

PROJECT LOCATION (STATE): <u>Utah</u> TYPE OF WORK: <u>City</u> R&D: <u>Yes</u> GROUP: <u>Water/Wastewater</u> PROJECT DESCRIPTION(S):

- 1. Water Supply/Distribution (W03)
- 2. Municipal/Utility Engineering (203)



J-U-B FAMILY OF COMPANIES

Vineyard Phase 1 Water Transmission Pipeline - Contract Modification 2

Work Breakdown Structure

Last Updated 11/04/2021

	Electrical Engineer	Direct Expenses	Total	Total
Description	(\$)	(\$)	(hrs)	(\$)
Vineyard Phase 1 Water Transmission Pipeline	(\$2,913)	\$6,366	336	\$54,552
Task 100 - Project Management and Progress Meetings			20	\$3,802
009 - Additional Work: Project management time related to contract modification 2			20	\$3,802
Task 200 - Preliminary Engineering, Permitting, 60% Design				\$6,917
020 - Additional Work: Preliminary design work related to extension of water lines in 1600 North and Vineyard Connector.			48	\$6,917
Task 300 - Final Design and Complete Bidding Documents		\$5,846	28	\$29,514
014 - Remove Subtask: Final design of 400 North railroad crossing, including design, plan preparation, ans submitting agency packages			-19	(\$2,431)
016 - Additional Work: Preliminary testing for cathodic protection system design		\$5,846	26	\$9,694
017 - Additional Work: Cathodic protection system design			21	\$3,108
018 - Additional Work: Final design phase work related to extension of water lines in 1600 North and Vineyard Connector			135	\$19,143
Task 400 - Bidding Support Services			4	\$592
002 - Additional Time: Respond to questions and issue addenda as necessary			4	\$592
Task 500 - Construction Administration Services	(\$2,913)	\$520	101	\$13,726
012 - Additional Work: Pre-commissioning corrosion protection testing			5	\$525
013 - Additional Work: Final testing and commissioning of cathodic protection system		\$520	26	\$4,110
014 - Additional Work: Construction enginerring work related to extension of water lines in 1600 North and Vineyard Connector.	(\$2,913)*		70	\$9,091

* Time in the original agreement for electrical engineering work during the construction phase that is no longer needed



Exhibit 1-B

Vineyard Phase 1 Water Transmission Pipeline

Anticipated Schedule (through Bidding Support Services)

Last Updated 11/04/2021

	Wee	k E	Endi	ng													
Description	23-Oct-21 30-Oct-21	0-001-21	06-Nov-21 12-Nov-21	20-Nov-21	7-Nov-21	04-Dec-21	11-Dec-21	18-Dec-21	25-Dec-21	01-Jan-22 08- 156-92	00-Jan-22 15-Jan-22	22-Jan-22	29-Jan-22	05-Feb-22	12-Feb-22 10-Eah-22	8-Feb-22	05-Mar-22
Vineyard Phase 1 Water Transmission Pipeline		0	0 7	- 0			-	- (N				N	0		- (1	
Task 100 - Project Management and Progress Meetings																	
001 - Project Kickoff Meeting and Project Setup																	
002 - 60% Design Review Meeting		T															
003 - 90% Design Review meeting																	
004 - Budget and Schedule Monitoring																	
005 - Quality Control/Quality Assurance Process Oversite																	
006 - Monthly Client Update Reports / Invoicing																	
007 - Additional: Coordination and contract modifications associated with scope changes																	
008 - Additional: Project management time related to extended schedule and monitoring status																	
009 - Additional Work: Project management time related to contract modification 2																	
Task 200 - Preliminary Engineering, Permitting, 60% Design																	
020 - Additional Work: Preliminary design work related to extension of water lines in																	
1600 North and Vineyard Connector.																	
Task 300 - Final Design and Complete Bidding Documents																	
001 - Incorporate comments from 60% review with City						_											
002 - Complete final design plan and profile drawings of transmission pipeline																	
003 - Remove Subtask: Complete design of (3) metered connections to CUWCD																	
004 - Share most recent design information and request permit approval from CUWCD, UDOT, UTA and UPRR																	
005 - Prepare ROW and easement descriptions as required				_					_								
006 - Prepare technical specifications and front-end bidding documents																	
007 - Structural engineering design and analysis																	
008 - Prepare final design details																	
009 - Prepare and submit agency (CUWCD, UDOT, UTA and UPRR) packages.																	
010 - Prepare 90% design review documents for review with City and submit																	
011 - Address final comments and finalize bidding documents												_					
012 - Submit for plan review approval from DDW																	
013 - Prepare final engineer's estimate of probable construction costs																	
014 - Remove Subtask: Additional Work: 400 North railroad crossing																	
015 - Additional Work: Final design phase work related to Mill Road waterline (400 N to Center)																	
016 - Additional Work: Preliminary testing for cathodic protection system design																	
017 - Additional Work: Cathodic protection system design										_			_				
018 - Additional Work: Final design phase work related to extension of water lines in																	
1600 North and Vineyard Connector																	
Task 400 - Bidding Support Services 001 - Prepare for and conduct a Pre-Bid meeting with approved Bidders																	
002 - Respond to questions and issue addenda as necessary 003 - Participate in bid opening																	
								_									
004 - Review submitted bids and prepare a bid tabulation																	
005 - Recommend award of construction to the most responsive bidder																	
006 - Prepare (3) original sets of contract documents																	



J-U-B ENGINEERS, Inc. AMENDMENT 1 TO AGREEMENT FOR PROFESSIONAL SERVICES

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

PROJECT NAME: Vineyard City Phase 1 Water Transmission Pipeline

CLIENT: Hansen, Allen & Luce (HAL) / Vineyard

J-U-B PROJECT NUMBER: 50-50-059

CLIENT PROJECT NUMBER: modification to HAL task order no. 319.50.300 ATTACHMENT TO:

AGREEMENT DATED: 11/20/2020; or

□ AUTHORIZATION FOR ADDITIONAL SERVICES #<u>X;</u> DATED:

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 1 - 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:

Changes in the project since work began in early 2021 have occurred necessitating changes to the project scope, schedule, and budget. These include the following:

- 1. Multiple alternate alignments were considered in varying degrees of detail, including survey and cost estimating.
- 2. Multiple changes were considered to points of connection to the CUWCD lines.
- 3. Evaluated the cost of a change in pipe material from PVC to DI for larger diameter pipes (including corrosion protection).
- 4. The schedule was extended due to additional time required for prepare for construction of the water tank related to this project, additional scope of work, and the completion of Vineyard's coordination with property owners.

PART 2 - 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.

C. Task A: Project Management

- Subtask 7. Additional Work: Coordination and contract modifications related to consideration of changed alignments, points of connection to CUWCD, corrosion protection, and the Mill Road waterline
- Subtask 8. Additional Work: Project management time due to the extended duration of the project and monitoring status

D. Task B: Preliminary Engineering, Permitting, 60% Design

- Subtask 16. Additional Work: Explore alternate alignments, connection points, pipe material (see the graphic with the heading, "Example of Different Alignments" in Exhibit 1-B for examples). Work includes the following:
 - a. Alternate connection to the existing CUWCD source line to feed the tank was considered. The new location is on the west side of the railroad tracks, much farther south than the

original location, and includes about 2000 more linear feet of pipe design along a different alignment.

- b. Multiple alternate alignments were considered on the north and south side of the Vineyard Connector.
- c. Multiple locations of crossing the railroad tracks at 800 North were considered.
- d. Different alignments associated with the changes in points of connection on 800 North and 400 North were/will be evaluated.
- e. A different location of the point of connection to serve the tank is being considered, resulting in additional waterline alignment evaluations.
- f. Points of connection on 800 North were eliminated
- g. Point of connection at 400 North was added, as well as another railroad crossing at 400 North to access it, and pipe along 400 North from the railroad crossing to Mill Road.
- h Evaluate the cost of a change in pipe material from PVC to DI for larger diameter pipes.
- i. Preliminary design to negotiate new 48" storm drain and 15" sewer crossing conflicts associated with the Downtown Vineyard Phase 1 Offsite Utilities Project near the south end of the Vineyard Connector.
- Subtask 17. Additional Work: Right-of-way and easements research, topographic survey related to alternate alignments and connection points.

Subtask 18. Additional Work: Preliminary design phase work related to 400 North railroad crossing, including topographic survey and coordination with permittees.

Subtask 19. Additional Work: Preliminary design phase work related to new 12" waterline in Mill Road from 400 North to Center Street

- a. Utility mapping research
- b. Topographic survey
- c. Prepare preliminary plan and profile sheets
- d. Map corridor utilities and identify conflicts
- e. Subsurface utility investigation of up to four locations completed by Utility Mapping Services.
- f. Evaluate phasing constraints and plan construction sequencing necessary to keep water in service as required
- g. Complete 60% level design drawings
- h. Prepare preliminary opinion of probable cost

E. Task C: Final Design and Complete Bidding Documents

- Subtask 13. Remove Subtask: Remove from the scope of work to complete the design of three metered connections to CUWCD, since they design their own metering vaults.
- Subtask 14. Additional Work: Final design of 400 North railroad crossing, including design, plan preparation, and submitting agency packages.

Subtask 15. Additional Work: Final design phase work related to new 12" waterline in Mill Road from 400 North to Center Street.

- a. Incorporate comments from 60% review with City
- b. Prepare final design plan and profile drawings
- c. Additions to technical specifications and bidding documents for 12" waterline
- d. Prepare details and required construction sequencing for Mill Road waterline
- e. Prepare 90% design documents and submit to City for review
- f. Address final comments and finalize bidding documents
- g. Prepare engineer's estimate for 12" waterline

The alignment of pipe along 800 North was shortened to only extend from the railroad tracks to Mill Road, but the alignment along 400 North was added from the railroad tracks to Mill Road. The net effect on final design is negligible.

F. Task E: Construction Engineering Support

Subtask 11. Additional Work: Construction engineering work related to new 12" waterline in Mill Road from 400 North to Center Street. The net effect of the addition of pipe design in 400 North and Mill Road and the removal of 800 North from Mill Road to Geneva Road is about a 10% increase in total length of pipe on the project. We estimate a similar increase in the construction engineering hours required.

PART 3 - CLIENT-PROVIDED WORK AND ADDITIONAL SERVICES

- C. **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. N/A
- D. 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. As the level of effort related to evaluation of an unknown number of alignment evaluations cannot be determined, future changes in scope may be required.

PART 4 - BASIS OF FEE AND SCHEDULE OF SERVICES

- A. CLIENT shall pay J-U-B for the identified Services in PART 2 as follows:
 - 1. For 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.
- B. Period of Service: If the period of service for the task identified above is extended beyond 12 months, the compensation amount for J-U-B's services may be appropriately adjusted to account for salary adjustments and extended duration of project management and administrative services.
- C. 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.
- D. The following table summarizes the *additional* fees and anticipated schedule for the services identified in PART 2.
| Task
Number | Task Name | Fee Type | Amount | Anticipated Schedule |
|----------------|---|---|-----------|--|
| A | Project Management,
additional work tasks | Time and Materials
(Estimated Amount
Shown) | \$20,838 | Concurrent with work progress |
| В | Preliminary Engineering,
Permitting, and 60%
Design, additional work
tasks | Time and Materials
(Estimated Amount
Shown) | \$101,786 | Add 5 months to the schedule:
Draft for CLIENT review 9
months after executed
contract, notice to proceed,
and receipt of all required
data |
| С | Final Design and Complete
Bidding Documents,
Additional work tasks | Time and Materials
(Estimated Amount
Shown) | 9,326 | Add 5 months to the schedule:
Draft for CLIENT review 11-13
months after executed
contract, notice to proceed,
and receipt of all required
data |
| E | Construction
Administration Services | Time and Materials
(Estimated Amount
Shown) | 7,365 | Concurrent with work progress |
| | | Total: | \$139,315 | |

The above fees were developed from the Work Plan attached as Exhibit 1-A.

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.

Exhibit(s):

- Exhibit 1-A: Work Breakdown Structure (Revised June 14, 2021)
- Exhibit 1-B: Description of Scope, Fee and Schedule Changes

For internal J-U-B use only:

PROJECT LOCATION (STATE): <u>Utah</u> TYPE OF WORK: <u>City</u> R&D: <u>Yes</u> GROUP: <u>Water/Wastewater</u> PROJECT DESCRIPTION(S):

- 1. Water Supply/Treatment/Distribution (W03)
- 2. Municipal/Utility Engineering (203)



Vineyard Phase 1 Water Transmission Pipeline

Work Breakdown Structure

Last Updated 07/26/2021

	Total	Total
Description	(hrs)	(\$)
Vineyard Phase 1 Water Transmission Pipeline	980	\$139,315
Task A - Project Management and Progress Meetings	118	\$20,838
007 - Additional: Coordination and contract modifications associated with scope changes	44	\$8,272
008 - Additional: Project management time related to extended schedule and monitoring status	74	\$12,566
Task B - Preliminary Engineering, Permitting, and 60% Design		\$101,787
016 - Additional: Explore alternate alignments, connection points, pipe material	404	\$56,909
017 - Additional: Right-of-way and easements research, topographic survey related to alternate alignments and connection points	150	\$19,490
018 - Additional Work: Preliminary design phase work related to 400 North railroad crossing	24	\$3,848
019 - Additional: Preliminary design phase work related to Mill Road waterline (400 N to Center)	100	\$21,540
Task C - Final Design and Complete Bidding Documents	141	\$9,326
003 - Remove Subtask: Complete design of (3) metered connections to CUWCD	-44	(\$14,567)
014 - Additional Work: 400 North railroad crossing	19	\$2,431
015 - Additional Work: Final design phase work related to Mill Road waterline (400 N to Center)	166	\$21,461
Task E - Construction Administration Services	43	\$7,365
011 - Additional Work: Construction engineering work related to Mill Road waterline (400 N to Center)	43	\$7,365

Vineyard City Phase 1 Water Transmission Pipeline Description of Scope, Fee, and Schedule Changes July 26, 2021

Original Agreement

The J-U-B scope of services is based on the following project understanding, as noted in the J-U-B agreement:

"The proposed pipeline is planned to be of various pipe diameters as shown on Exhibit 1-A. The preferred alignment has already been agreed upon and J-U-B's tasks, assumptions and deliverables are listed below."

Exhibit 1-A shows the preferred alignment of the pipelines that was to be the subject of design. The alignments include the pipe from a source to the tank, the pipe from the tank to a point of connection to the CUWCD pipeline at 800 North Geneva Road, the pipe to a point of connection near the railroad tracks, and the pipe parallel to the railroad tracks from 800 North to 400 North. These pipeline alignments and points of connection were the basis of the design.

The second task of work (Preliminary Engineering, Permitting and 60% Design) includes evaluation of existing utilities, reviewing geotechnical data, conducting topographic survey, locating utilities, mapping, identifying utility conflicts and potential utility relocations, subsurface utility investigation, and preparing preliminary design drawings along the preferred alignment of the pipelines in Exhibit 1-A.



Exhibit 1-A from Original Agreement

Work Requested

As we got started on the project, Vineyard asked J-U-B to look into multiple pipeline alignments that differed from what was scoped. The graphic below is a compilation of different alignments provided to our surveyors for the purpose of describing where we needed topographic survey. With the different alignments and points of connection to the CUWCD pipelines there was considerable related survey work, right-of-way and easement research, mapping and preliminary engineering, meetings, and discussions regarding the evaluation of these alignments.



Example of Different Alignments

The data in the graphic above was prepared in February 2021. We have been asked to identify more alignment and point of connection alternatives since then. The alignments and points of connection are still not finalized. We are now in the process of preparing documents for the City to review proposed alignments with property owners.

The need to design the meter vaults was eliminated, since CUWCD designs their own vaults; this eliminates one subtask from our scope.

In addition to alignments and points of connection, we have also been asked to evaluate the cost of using ductile iron pipe (rather than PVC pipe) for pipes larger than 20" in diameter and the cost of corrosion protection of ductile iron pipes.

Other changes include one additional railroad crossing at 400 North in order to access the existing CUWCD station on the west side of the tracks, a new 12" pipe in Mill Road from 400 North to Center Street, and the need to design around a pending 15" sewer and 48" storm drain crossing at the bend in the Vineyard Connector.

The alignment, CUWCD connection points, and railroad crossings as planned are shown below.



Currently Planned Alignment, CUWCD Connection Points, and Railroad Crossings

As evidenced by the need to modify the contract at this stage to account for the out-of-scope work, our diligence in holding to the scope yielded to a desire to meet the needs of Vineyard. We recognize that it is better for everybody in the long run if we align the work we agree to perform with the contract much more closely. Included in this adjustment to our scope of work is time to monitor our work much more closely regarding the agreed-upon scope, schedule, and budget.

The original schedule was from preliminary design to be performed in four months, from January to May 2021. Much work has been performed related to the different alignments and points of connection, but most of the preliminary design work has not yet been accomplished, as we are still working on finalizing alignments and points of connection. We therefore expect that it will still be several months before the preliminary design work will be done. We are estimating that it will take until at least September to complete the work, assuming the alignments and points of connection are finalized within the next few weeks.

The extension of preliminary design schedule from the original four to six months to nine to 11 months adds to the cost of managing the project.

A review of completed work related to the alternate alignment evaluations identified the magnitude of both the completed work to date and provided a basis of assumptions for work yet to be completed. A tabulation of these figures is shown below.

		Vineyard Phase 1 Water Transmission Pipeline Fee								
		In-Scope	Work	Out-of-Sco	pe Work					
Task	Original Fee	Money Spent on Work Already Performed That <u>Will No</u> t Have To Be Repeated	Work Not Yet Performed	Money Spent on Work Already Permformed That <u>Will</u> Have To Be Repeated	Work Removed from Scope	Already Performed	Not Yet Performed	Addition to Fee	Modified Fee	
Task A: Project Management	\$9,896	\$3,517	\$6,379	-		\$1,544	\$19,294	\$20,838	\$30,734	
Task B: Preliminary Engineering,										
Permitting, 60% Design	\$120,690	\$27,363		\$7,046		\$37,529	\$57,212	\$101,787	\$222,477	
Task C: Final Design and Complete										
Bidding Documents	\$70,293		\$55,726		\$14,567		\$23,892	\$9,325	\$79,618	
Task D : Bidding Support Services	\$6,308		\$6,308						\$6,308	
Task E Construction Administration										
Services	\$75,836		\$75,836				\$7,365	\$7,365	\$83,201	
Expenses	\$2,600		\$2,600						\$2,600	
TOTAL:	\$285,623	\$30,880	\$233,130	\$7,046	\$14,567	\$39,073	\$107,763	\$139,315	\$424,938	
	+									
Original Fee Calculation:	\$285,623	= \$30,880	+ \$233,130	+ \$7,046	+ \$14,567			+		
Addition to Fee Calculation:				\$7,046 -	\$14,567	+ \$39,073 ·	+ \$107,763 ÷	= \$139,315	. ↓	
Modified Fee Calculation: Charges are through 5/22/2021	\$285,623			+				\$139,315	= \$424,938	

Work related to point of connection, alignment, railroad crossing, and additional piping changes is reflected in Tasks A, B, C, and E. Out-of-scope work in Task A is related to careful monitoring of scope, schedule, and budget moving forward and evaluation of this scope change.

The tasks containing additional work are described in detail in the proposed contract modification documents.



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.

Mr. Chris Wilson June 21, 2022 Page 2

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.
Ву:	Ву:
Its:	Its:



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

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

PROJECT NAME: <u>Vineyard City Phase 1 Water Distribution Pipeline</u> CLIENT: <u>Hansen, Allen & Luce (HAL) / Vineyard City</u> J-U-B PROJECT NUMBER: <u>50-20-059</u> CLIENT PROJECT NUMBER: <u>Modification to HAL task order no. 319.50.300</u> 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

 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

- 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

- 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

- 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.
- 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.

1. 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.

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): <u>Utah</u> TYPE OF WORK: <u>City</u> R&D: <u>No</u> GROUP: <u>Municipal</u> PROJECT DESCRIPTION(S):

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



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

AGREENIENT FOR PROFESSIONAL SERVI

J-U-B ENGINEERS, INC. Standard Exhibit A – Construction Phase Services

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

The Agreement for Professional Services dated <u>11/20/2022</u> 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 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 🏹 Yes

2.

- Pre-Construction Conference. Participate in a pre-construction conference.
- Visits to Site and Observation of Construction / Resident Project Representative (RPR) Services. In connection with observations of the Work while it is in progress:
- 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
 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 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
 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 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 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	8.	Substitutes. Consult with and advise CLIENT concerning, and determine the acceptability of, substitute materials and
No		equipment proposed by contractor.

- 🛛 Yes 🗌 No
- 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 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.
- Applications for Payment. Based on J-U-B's on-site observations as an experienced and qualified design professional, 11 🛛 Yes 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, No No 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
- 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 🗌 Yes
- 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 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.	<i>Control Procedures.</i> 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.
Xes	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.	<i>Record Surveying.</i> Provide field surveying of readily accessible elements of the final completed construction to supplement the preparation of Record Drawings.
⊠ Yes □ No	7.	<i>Record Drawings.</i> 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.	<i>Warrantee Inspection.</i> 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:

- 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).
- 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.
- 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.
 - 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.
- 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.
- 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.
- 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



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
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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



Project Title, Client: Vineyard Phase 1 Water Distribution Pipeline - Contract Mod 3, Vineyard City

Project Number: 50-20-059

Prepared By:	Mark L. Christensen
riepareu by.	Mark L. Childlensen

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		2		6						9	\$1,680
		Bi-weekly Coordination Meeting		4		12						16	\$2,920
		Warrantee Inspection		1 1		8						8	\$1,520
		Assist Owner in Preparing O&M Manual	1			4						10	\$1,720
		Address Work Discovered to be Defective 1 2		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		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



Meeting Date: 8-10-2022

Agenda Item: 7.5 Road Striping

Department: Public Works

Presenter: Chris Wilson

Background/Discussion:

Each year roadway striping and markers throughout the city need to be refreshed. Visibility of pavement markings is important to prevent traffic accidents and improve clarity for all roadway users. This project will allow the city to re-strip the majority of the city streets as well as add some additionally needed striping improvements. Painting will be placed in accordance with MUTCD and UDOT standards. The contractor will notify residents as required and work with staff to minimize the impacts. Three bids were received. It is proposed to award striping services to Done Rite Lines LLC not to exceed reserved striping budget.

Fiscal Impact:

Transportation Fund, Contract services striping budget = \$75,000

Low Bidder- Done Rite Lines LLC proposal = \$55,950.00

Recommendation:

Motion to Approve

Sample Motion:

Motion to approve staff to enter into agreement with Done Rite Lines LLC for the road striping services as proposed for FY22-23.

Attachments:

Resolution 2022-36 Done Rite Lines LLC proposal

RESOLUTION 2022-37

A RESOLUTION OF THE VINEYARD CITY COUNCIL AWARDING THE BID TO THE LOWEST BIDDER, DONE RITE LINES LLC, FOR ROAD STRIPING SERVICES

WHEREAS, notice to bidders has been duly given as required by law; and

WHEREAS, after consideration of all bids filed (see exhibit A or see attached bid sheet), it was determined that Done Rite Lines LLC is the best and lowest bidder for the public improvement as is herein outlined.

NOW THEREFORE BE IT RESOLVED BY THE GOVERNING BODY OF VINEYARD AS FOLLOWS:

<u>Section 1.</u> The bid be awarded to Done Rite Lines LLC for road striping services and that the contract for the construction of same is now awarded to said contractor not exceed the approved budget.

<u>Section 2.</u> That city staff are hereby authorized and directed to execute the contract with the contractor for the public improvement as is herein referred to.

Section 3. This resolution shall take effect upon passing.

Passed and dated this 10th day of August, 2022.

Mayor

Attest:

Recorder

Done Rite Lines LLC.

1420 W 1600 N Mapleton Utah 84664 801-489-6875 doneritelines@gmail.com Contractor's License 7491771-5501

Project Name:		Project Number:		City:	Due Date:
Roadw	ay Stripin			Vineyard City	7/7/2022
Item #	Qty	Description	Unit Price	Line Total	
01	150000	4 " White or Yellow	\$.22	\$33000.00	
02	9500	8" White Or Yellow	\$. 2 5	\$2375.00	
03	12500	12" Crosswalk/Stop Bar	\$.30	\$3750.00	
04	170	Arrows Each	\$25.00	\$4250.00	
05	60	Shared Lane Marking	\$50.00	\$3000.00	
06	40	Bike Lane	\$45.00	\$1800.00	
07	4	Stop/Only	\$60.00	\$240.00	
08	2	Yield Each	\$60.00	\$120.00	
09	6	School Each	\$65.00	\$390.00	
10	10	HV School Crosswalk	\$25.00	\$250.00	
11	55	Shark Teeth Each	\$5.00	\$275.00	
12	250	24" Stop Bar	\$25.00	\$6250.00	
13	1	RailRoad	\$250.00	\$250.00	
14		Red Curb Lin Ft	\$.75	Total	

Prepared by Trent Hoover 801-427-1873 \$55950.00

This is a quotation is for name of goods: Prices our subject to change. Prices are good for 30 days. Price does not include Traffic Control, Sweeping or Layout of Roadways. PAINT PRICES ONLY

Thank you for your business!

BID



Meeting Date: August 10, 2022 Agenda Item: 7.6 Staffing Plan Adjustment - Finance Department: City Manager Presenter: Ezra Nair

Background/Discussion:

While these are administrative decisions, additions to the staffing plan can have significant impacts on future budgets. Staffing plan changes that move employees from part-time to full-time, or into leadership roles that are not included in the FY budget adoption, will be brought before the council for a vote.

It is proposed that our Accounts Payable / Utilities Clerk position be promoted to Utility Billing Supervisor / Accounts Payable Clerk. As part of the FY23 budget approval, the finance team is bringing on two new part-time Receptionist/Library Assistant/Utility Billing Clerks. This position will serve as a team lead and direct their training, coordination, and overall efforts within the finance department.

Fiscal Impact: FY23: \$2,280 (Combined salary and benefits) FY24: No change

Recommendation & Additional Options:

Recommendation: Staff recommends the City Council approve the addition to the staffing plan as presented.

Sample Motion:

I move to approve the addition to the staffing plan as presented.



Meeting Date: 8/10/22 Agenda Item: 7.7 FrontRunner Grand Opening Celebration Department: Admin Presenter: Anna Nelson

Background/Discussion:

Vineyard City is partnering with UTA, Flagship Companies, and Woodbury Corporation to host a Grand opening ribbon cutting the morning of August 12th and a celebration that night.

The first event, the ribbon cutting will be at the FrontRunner station on August 12th from 10:00 AM to 11:00 AM with set up starting on Thursday night. Governor Spencer Cox will be in attendance along with representatives from UTA and UDOT. The Green Man Group from UVU will also be performing. We are anticipating 100-200 people in attendance and media coverage for this event.

The second event, the Grand Opening Celebration, will be from 7:30 PM - 9:30 PM at Grove Park. With set up starting at 10:00 AM. There will be a concert by Metro Music Club and a drone show directly following the performance. We are anticipating 2500+ people in attendance.

We are supportive of hosting events like this and have attempted to facilitate this as much as possible. We have met as staff to make sure that we provide a recommendation that will work for each of the staff members involved.

Impact:

- All of the parking is required at the park including the detention area to ensure enough parking is available for the participants at the evening event.

Recommendation:

We are recommending one condition for approval.

- 1. An adequate parking plan that includes both Freedom Elementary and Trailside Elementary.
- 2. A temporary structure permit for the tents at the morning event and the stage at the evening event.

Sample Motion:

Motion to approve the special events permit application for Vineyard City on August 12th with the two conditions that have been recommended by staff.



Or

Motion to deny the special events permit application for Vineyard City on August 12th with the rental fees waived.

Attachments:

See attached site plans

Front Runner Grand Opening Logistics

Event Details:

FrontRunner Station parking lot (see attached map)

10:00 AM to 11:00 AM with set up starting at 7:00 and the temporary structure inspection at 9:00

FrontRunner Vineyard Station Grand Opening Friday August 12, 2022 10:00 a.m. – 11:00 a.m.

Run of Show

Time	Segment	Notes
9:45	Green Man Group plays intro percussion	
a.m.		
9:55	Gather all VIPs for paused train photo	Give prior notice to participants
10:05	UTA Trustee Jeff Acerson: Welcome, recognize VIPs,	
	announce speakers, introduce Governor Cox	
10:10	Governor Spencer J. Cox	
10:15	UTA Trustee Jeff Acerson	
10:20	Vineyard Mayor Julie Fullmer	
10:25	UDOT Region Three Director Rob Clayton	
10:30	Walkable Cities Expert Jeff Speck	
10:40	UTA Executive Director Jay Fox: Countdown (with Green	Pull cannon string: Gov. Cox, Trustee Acerson, Mayor
	Man Group drumroll)	Fullmer
10:40	Green Man Group plays for 5 minutes as conclusion	Will this work with media interviews? Should we limit
		the ending percussion to 1 minute?
10:45	Media interview availability	

Parking plan:

Because this event is happening in the parking lot of the FrontRunner Station I would like to ensure that the parking lot is available and free of cars during the event. To do that here are the following suggestions I have come up with.

- Cone off the section of the parking lot that will be used for the grand opening starting Wednesday the 10th.
- Notice placed at the entrance starting Wednesday the 10th stating no parking after 10:00 PM on Thursday, August 11th for the special event.
- No parking signs placed Thursday August 11th
- Traffic directing the morning of August 12th

We can direct parking to Penny Springs Park. I will work with Public Works on signage to help guide people to Penny Springs as an alternative.

Trash Collection plan:

UTA is providing the setup and take down for this event but I would like to set out a few trash cans. We will also need help picking up garbage and confetti after the event starting at 11:00.









Meeting Date: 8-10-2022

Agenda Item: 10.1 SL-RAT

Department: Public Works

Presenter: Chris Wilson

Background/Discussion:

As a requirement by the State, the City is required to clean and or inspect the overall city sewer system over once every 4 years. Sewer Line Rapid Assessment Tool or SL-RAT is a service that can help accomplish this task for pipelines up to 12" in diameter though use of acoustics. This service will provide a report of the health of each pipeline inspected. This will identify any blockages that need attention and help direct our wastewater operators' cleaning efforts to the dirty or problem areas of the system. This will help to significantly reduce the chances of sewer backups. This service is a patented sole source service only offered by RH Borden and Company LLC in our area. It is proposed to award RH Borden and Company LLC to complete this service with a not to exceed the limit of the approved budget.

Fiscal Impact:

Approved Budget: \$45,000 Estimated work to be \$37,925.40 and not to exceed budget of \$45,000.

Recommendation:

Motion to Approve

Sample Motion:

Motion to approve staff to enter into agreement with RH Borden and Company LLC for the SL-RAT services as proposed for FY22-23.

Attachments:

Resolution 2022-37 RHB SL-RAT proposal 2022 Sole Source SL-RAT (RH Borden)

RESOLUTION 2022-38

A RESOLUTION OF THE VINEYARD CITY COUNCIL AWARDING THE BID TO THE LOWEST BIDDER, RH BORDEN AND COMPANY LLC, FOR USE OF THE SEWER LINE RAPID ASSESSMENT TOOL OR SL-RAT

WHEREAS, notice to bidders has been duly given as required by law; and

WHEREAS, after consideration of all bids filed (see exhibit A or see attached bid sheet), it was determined that RH Borden and Company LLC is the best and lowest bidder for the public improvement as is herein outlined.

NOW THEREFORE BE IT RESOLVED BY THE GOVERNING BODY OF VINEYARD AS FOLLOWS:

<u>Section 1.</u> The bid be awarded to RH Borden and Company for use of the Sewer Line Rapid Assessment Tool or SL-RAT and that the contract for the use of same is now awarded to said contractor in the not to exceed amount of \$45,000.

<u>Section 2.</u> That city staff are hereby authorized and directed to execute the contract with the contractor for the public improvement as is herein referred to.

Section 3. This resolution shall take effect upon passing.

Passed and dated this 10th day of August, 2022.

Mayor

Attest:

Recorder

RH Borden and Company LLC

PO Box 171386 Salt Lake City, UT 84117 US jon.borden@rhborden.com

Quotation

125 S. Main Street

Vineyard, UT 84124

ADDRESS

Chris Wilson

Vineyard City

SHIP TO

Chris Wilson Vineyard City 125 S. Main Street Vineyard, UT 84124

QUOTATION # 1608 DATE 03/21/2022

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT	
	Acoustic Assessment Service - UT RHB	Acoustic assessment of sewer line pipes utilizing Transmissive Acoustic Inspection Rapid Assessment Technology (SL-RAT). Service includes full assessment of designated pipes and delivery of assessment data in RH Borden Online ArcGIS Dashboard with additional ability to download data in .csv and .shp formats. Final cost based on actual footage assessed.	162,620	0.17	27,645.40	
	Level 1 Manhole Inspection - UT TD	Manholes will be assessed and prioritized based on manhole condition and incorporated into acoustic assessment data set. Manhole assessments will include a 3-point risk scale (Low, Medium, High) across 5 sections of the manhole (Lid, Collar, Main Body, Trough, Overall Condition). Data captured and included in RH Borden Online ArcGIS Dashboard with filtering and reporting capability. Final cost based on actual number of manholes assessed.	1,028	10.00	10,280.00	
		TOTAL		\$37 ,	,925.40	



8116 South Tryon Street Suite B3-203 Charlotte, NC 28273 USA

March 18th, 2021

To Whom It May Concern:

InfoSense, Incorporated in Charlotte, North Carolina is the sole supplier manufacturer, and distributor of the Sewer Line Rapid Assessment Tool or SL-RAT[®] and its supporting software the Sewer Line Data Organizer or SL-DOG[®]. RH Borden and Company LLC is the exclusive manufacturer's representative for the states of Utah, Idaho, Arizona, Nevada, and Wyoming. You may contact RH Borden and Company LLC at (385) 228-5350 or email Jon Borden at jon.borden@rhborden.com.

The SL-RAT[®] line of acoustic pipe inspection equipment is patent-protected under U.S. Patent #8220484 and other pending patents. InfoSense manufactures the only product that uses Active Acoustic transmissions between a transmitter and a receiver in adjacent pipes to provide an aggregate blockage assessment.

The SL-RAT[®] makes use of the fact that water and air flow similarly within a pipe. Our proprietary algorithms exploit this fact to assess blockage within a pipe segment – typically within 3 minutes or less and with no flow contact.

Sincerely,

Alus Clumin

Alex Churchill CEO InfoSense, Inc. *Past Winner WEF Innovative Technology Award*



Meeting Date: August 10, 2022

Agenda Item: 10.2 Housing and Transit Reinvestment Zone request to move forward with application to Governor's Office of Economic Opportunity

Department: City Manager

Presenter: Ezra Nair

Background/Discussion:

Similar to our Redevelopment Agency, Housing and Transit Reinvestment Zones (HTRZ) were introduced as a way to provide for incremental tax revenue growth to be captured over a period of time to support costs of development. The HTRZ was specifically introduced in 2021 and amended in this last legislative session to address Utah's housing and transportation needs by supporting mixed-use, multi-family and affordable housing around transit stations. Additional benefits of HTRZs include:

- Promoting higher utilization of public transit
- Increasing availability of housing; including affordable housing
- Conserving water resources through efficient land use
- Improving air quality by reducing fuel consumption and motor vehicle trips
- Encouraging transformative mixed-use development and investment in transportation and public transit infrastructure in strategic areas
- Strategic land use and municipal planning in major transit investment corridors
- Increasing access to employment and educational opportunities.

The primary difference between HTRZs and our current RDA from a funding perspective is that an HTRZ would provide state participation through incremental growth in state sales tax. Moving forward with this decision would provide the city an opportunity to investigate whether this resource would benefit proposed development near our new FrontRunner Station. An independent analysis would be performed that illustrates the feasibility and impact of incremental tax revenue growth on the development efforts in the area. Moving this forward would allow staff to submit an application for the Vineyard Station area to the Governor's Office of Economic Opportunity.

[Recommendations, Options, & Sample Motion on the next page]



Recommendation & Additional Options:

Recommendation: Staff recommends the City Council approve moving forward with an HTRZ application to the Governor's Office of Economic Opportunity.

Option 2: Continue the item to the next Council Meeting.

Sample Motion:

I move to approve moving forward with submitting an HTRZ application to the Governor's Office of Economic Opportunity.