EXHIBIT "E" COST ESTIMATES FOR OVERSIZE AND DEVELOPER WATER LINES AND MAXIMUM REIMBURSEMENT CALCULATION

EXHIBIT "E" CALCULATION OF ESTIMATED MAXIMUM CITY REIMBURSEMENT (INCLUDING LINE POWER) (REVISED)

DESCRIPTION		PHASE I	PHASE II	TOTAL
Oversized Water Line Cost Estimate Line Power-Related Costs	Subtotal	\$ -	\$ 32,192,175.00 <u>\$ 2,000,000.00</u> \$ 34,192,175.00	\$ 2,000,000.00
Private Developer Water Line Cost Estimate		\$ 7,180,313.27	\$ 5,624,209.48	\$ 12,804,522.75
Maximum City Reimbursement		\$ 27,632,034.48	\$ 28,567,965.52	\$ 56,200,000.00

ATKINS

Engineer's Estimate of Cost (EEOC) Apex Water System - Build Out Scenario City of North Las Vegas

Date: March 30, 2018 By: R. Valdez / M. Carr Checked By: J. Tull Approved By: H. Dexheimer

Cost Type	Bid Item No.	Description	Quantity	Unit	Unit Cost	Cost	Notes
	1	Mobilization and Demobilization	1	LS	\$ -	\$ 4,308,088.13	10% of DC Sub-Total Items 2-8
	2	Site 1 (Booster Pump Station PS-1)	1	LS	\$ 2,832,765.53	\$ 2,832,765.53	"Refer to Detail Sheet for Breakdown"
	3	Site 2 (Booster Pump Station PS-2 and Tank T-2A)	1	LS	\$ 4,565,794.00	\$ 4,565,794.00	"Refer to Detail Sheet for Breakdown"
	4	Site 3 (Booster Pump Station PS-3 and Tank T-3A)	1	LS	\$ 4,630,366.02	\$ 4,630,366.02	"Refer to Detail Sheet for Breakdown"
Direct	5	Site 4 (Booster Pump Station PS-4)	1	LS	\$ 4,792,948.88	\$ 4,792,948.88	"Refer to Detail Sheet for Breakdown"
Din	6	24" Transmission Pipeline	24,100	LF	\$ 335.26	\$ 8,079,706.86	"Refer to Detail Sheet for Breakdown"
	7	36" Transmission Pipeline	29,600	LF	\$ 492.31	\$ 14,572,438.12	"Refer to Detail Sheet for Breakdown"
	8	24' Wide Access Road	31,487	LF	\$ 114.55	\$ 3,606,861.85	"Refer to Detail Sheet for Breakdown"
				Dire	ct Costs Sub-Total	\$ 47,388,969.38	
				c	Contingency (15%)	\$ 7,108,345.41	
			Direct Cos	ts Sub-Total v	with Contingency:	\$ 54,497,314.79	
				Low R	ange EEOC (-20%)	\$ 43,597,852	
				High R	ange EEOC (+30%)	\$ 70,846,509	
C				- TALESON	a tor anata		

ost ype	Item No.	Description	Percentage	Cost	Notes
t	10	City Administration	3%	\$1,634,919	"Assumption"
lire	11	Engineering and Design	8%	\$4,359,785	
Ĕ	12	Construction Management and Inspections	10%	\$5,449,731	
		Indir	ect Costs Sub-Total	\$11,444,436	

Grand Total Engineer's Estimate of Cost incl. Admin, Eng, CM \$ 65,941,751



Engineer's Estimate of Cost (EEOC) Apex Water System - Developer Scenario, Private Infrastructure City of North Las Vegas

Date: April 11, 2018

By: J. Tull

Approved By: H. Dexheimer

Cost Type	Bid Item No.	Description	Quantity	Unit	THE REAL	Unit Cost	14-14-14	Cost	Notes
	1	Mobilization and Demobilization	1	LS	\$	-	\$	442,425.82	5% of DC Sub-Total Tasks 2-7
	2	Site 1 (Booster Pump Station PS-1)	1	LS	\$	518,841.24	\$	518,841.24	"Refer to Detail Sheet for Breakdown"
	3	Site 2 (Booster Pump Station PS-2 and Tank T-2A)	1	LS	\$	950,950.64	\$	950,950.64	"Refer to Detail Sheet for Breakdown"
÷	4	Site 3 (Booster Pump Station PS-3 and Tank T-3A)	1	LS	\$	977,102.52	\$	977,102.52	"Refer to Detail Sheet for Breakdown"
Direct	5	Site 4 (Booster Pump Station PS-4 and Tank T-4A)	1	LS	\$	955,500.25	\$	955,500.25	"Refer to Detail Sheet for Breakdown"
٥	6	8" Transmission Pipeline	53,700	LF	\$	71.79	\$	3,855,256.73	"Refer to Detail Sheet for Breakdown"
	7	12' Wide Access Road	31,487	LF	\$	50.52	\$	1,590,864.95	"Refer to Detail Sheet for Breakdown"
			sts Sub-Total	\$	9,290,942.14				
				(Conti	ngency (10%)	\$	929,094.21	
			Direct Cost	s Sub-Total	with	Contingency:	\$	10,220,036.35	
_				Low F	ange	EEOC (-20%)	\$	8,176,029	
				High R	ange	EEOC (+30%)	\$	13,286,047	

Туре	Item No.	Description	Percentage	Cost	Notes
t	9	City Administration (Private Line)	1.5%	\$153,301	"Assumption"
dire	10	Engineering and Design (Private Line)	8%	\$817,603	и п
=	11	Construction Management and Inspections (Private Line)	5%	\$511,002	0. U
			Indirect Costs Sub-Total	\$1,481,905	

Grand Total Engineer's Estimate of Cost incl. Admin, Eng, CM \$ 11,701,942

ATKINS

Engineer's Estimate of Cost (EEOC)-PHASE 1 Apex Water System - Phase 1 Build Out Scenario City of North Las Vegas

Date: April 11, 2018

By: J. Tull

Approved By: H. Dexheimer

Cost Type	Bid Item No.	Description	Quantity	Unit	Unit Cost	Cost	Notes
	1	Mobilization and Demobilization	1	LS	\$ -	\$ 2,230,397.46	10% of DC Sub-Total Items 2-8
	2	Site 1 (Booster Pump Station PS-1)	1	LS	\$ 2,832,765.53	\$ 2,832,765.53	"Refer to Detail Sheet for Breakdown"
	3	Site 2 (Booster Pump Station PS-2 and Tank T-2A)	1	LS	\$ 4,565,794.00	\$ 4,565,794.00	"Refer to Detail Sheet for Breakdown"
	4	Site 3 (Tank T-3A)	1	LS	\$ 1,645,552.49	\$ 1,645,552.49	"Refer to Detail Sheet for Breakdown"
Direct	5	Site 4 (Booster Pump Station PS-4)	1	LS	\$ -	\$ -	"Refer to Detail Sheet for Breakdown"
Dire	6	24" Transmission Pipeline	6,600	LF	\$ 332.89	\$ 2,197,052.05	"Refer to Detail Sheet for Breakdown"
	7	36" Transmission Pipeline	19,200	LF	\$ 507.41	\$ 9,742,324.00	"Refer to Detail Sheet for Breakdown"
	8	24' Wide Access Road	1	LF	\$ 1,320,486.50	\$ 1,320,486.50	"Refer to Detail Sheet for Breakdown"
			9	Dire	ct Costs Sub-Total	\$ 24,534,372.02	
				C	Contingency (15%)	\$ 3,680,155.80	
			Direct Cost	ts Sub-Total	with Contingency:	\$ 28,214,527.82	
				Low R	tange EEOC (-20%)	\$ 22,571,622	
				High R	ange EEOC (+30%)	\$ 36,678,886	
Cost Type	Item No.	Description			Percentage	Cost	Notes
Ħ	10	City Administration			3%	\$846,436	"Assumption"

Туре	Item No.	Description	Percentage	Cost	Notes
t	10	City Administration	3%	\$846,436	"Assumption"
dire	11	Engineering and Design	8%	\$2,257,162	n , n
Ē	12	Construction Management and Inspections	10%	\$2,821,453	
		Indirect	Costs Sub-Total	\$5,925,051	

Grand Total Engineer's Estimate of Cost incl. Admin, Eng, CM \$ 34,139,579

Atkins



Engineer's Estimate of Cost (EEOC)-PHASE 1 Apex Water System - Phase 1 Developer Scenario, Private Infrastructure City of North Las Vegas

Date: April 11, 2018

By: J. Tull

Approved By: H. Dexheimer

Cost Type	Bid Item No.	Description	Quantity	Unit		Unit Cost		Cost	Notes
	1	Mobilization and Demobilization	1	LS	\$		\$	246,112.66	5% of DC Sub-Total Tasks 2-7
	2	Site 1 (Booster Pump Station PS-1)	1	LS	\$	518,841.24	\$	518,841.24	"Refer to Detail Sheet for Breakdown"
	3	Site 2 (Booster Pump Station PS-2 and Tank T-2A)	1	LS	\$	950,950.64	\$	950,950.64	"Refer to Detail Sheet for Breakdown"
	4	Site 3 (Tank T-3A)	1	LS	\$	552,482.52	\$	552,482.52	"Refer to Detail Sheet for Breakdown"
Direct	5	Site 4 (Booster Pump Station PS-4 and Tank T-4A)	1	LS	\$	-	\$		"Refer to Detail Sheet for Breakdown"
٥	6	8" Transmission Pipeline	25,800	LF	\$	81.09	\$	2,092,239.73	"Refer to Detail Sheet for Breakdown"
	7	12' Wide Access Road	18,465	LF	\$	43.74	\$	807,739.15	"Refer to Detail Sheet for Breakdown"
_	Direct Costs Sub-Total								
				3	Conti	ngency (10%)	\$	516,836.59	
			Direct Cost	s Sub-Total	with	Contingency:	\$	5,685,202.54	
				Low	Range	e EEOC (-20%)	\$	4,548,162	
				High R	lange	EEOC (+30%)	\$	7,390,763	

Туре	Item No.	Description	Percentage	Cost	Notes
t	9	City Administration (Private Line)	1.5%	\$85,278	"Assumption"
dire	10	Engineering and Design (Private Line)	8%	\$454,816	n #
드	11	11 Construction Management and Inspections (Private Line)	5%	\$284,260	n u
			Indirect Costs Sub-Total	\$824,354	

Grand Total Engineer's Estimate of Cost incl. Admin, Eng, CM \$ 6,509,557

Phase II Bid Costs Apex Water System - Build Out Scenario City of North Las Vegas

Date: April 11, 2022 By: T. Brady

Cost	Bid Item						
Туре	No.	Description	Quantity	Unit	Unit Cost	Cost	Notes
	1	Installation of 24" DIP Waterline	32,320	LF	\$ 425.00	\$ 13,736,000.00	
	2	Installation of 24" Valve Vault	25	EA	\$ 181,000.00	\$ 4,525,000.00	
	3	Construct 6" Blow Off Assembly	31	EA	\$ 12,500.00	\$ 387,500.00	
	4	Construct 4" Air Release Valve Assembly	30	EA	\$ 11,300.00	\$ 339,000.00	
	5	Construct 16' Type II Access Road	931,650	SF	\$ 1.00	\$ 931,650.00	
	6	Construct 16' Paved Access Road to Site 4	93,150	SF	\$ 2.90	\$ 270,135.00	
	7	Construct Access Road Rip Rap Section	770	LF	\$ 60.00	\$ 46,200.00	
	8	Construct 4" Fiber Optic Conduit	69,800	LF	\$ 10.00	\$ 698,000.00	
	9	Construct 2'x3' Fiber Optic Pull Box	73	EA	\$ 4,500.00	\$ 328,500.00	
	10	Rough Grade for 24" Waterline	1,024,760	SF	\$ 0.50	\$ 512,380.00	
	11	Construct Site 3 Pump Station	1	LS	\$ 3,694,354.00	\$ 3,694,354.00	
	12	Construct Site 4 Tank Site & Reservoir	1	LS	\$ 5,526,000.00	\$ 5,526,000.00	
	13	NVE and Power-Related Costs	1	LS	\$ 2,000,000.00	\$ 2,000,000.00	
				Dire	ct Costs Sub-Total	\$ 32,994,719.00	
Cost	Bid Item						
Туре	No.	Description				Cost	Notes
	11	Engineering and Design				\$ 705,956.00	
	12	Construction Management and Inspections				\$ 491,500.00	
				Indire	ct Costs Sub-Total	\$ 1,197,456.00	
			Grand Total	Cost Inc	I. Admin, Eng, CM	Ş	34,192,175.00