



HENSEL PHELPS
Plan. Build. Manage.

X.3.1.a GC ESTIMATE ANSWER

Item	QTY	UNIT	Labor		Material		Equip/Subs		Total	Justification
			\$/UNIT	AMT	\$/UNIT	AMT	\$/UNIT	AMT		
SUPERVISION										
Project Manager	7	MO	\$14,000	\$98,000					\$98,000	Match staff roster
Project Superintendent	14	MO	\$14,000	\$196,000					\$196,000	Match staff roster
Project Engineer	16	MO	\$11,500	\$184,000					\$184,000	Match staff roster
Office Engineer	24	MO	\$9,700	\$232,800					\$232,800	Match staff roster
QC Manager	7	MO	\$11,500	\$80,500					\$80,500	Match staff roster
BIM Engineer	3	MO	\$9,700	\$29,100					\$29,100	Match staff roster
Office Manager	15	MO	\$6,800	\$102,000					\$102,000	Match staff roster
Travel Expenses	2	MO			\$5,000	\$10,000			\$10,000	
Moving & Relocation	2	LSUM			\$2,500	\$5,000			\$5,000	
Intern Moving	12	EA			\$750	\$9,000			\$9,000	Match staff roster
Total				\$922,400		\$24,000		\$0	\$946,400	
ENGINEERING & SURVEY WORK										
Area Superintendent	7	MO	\$12,500	\$87,500					\$87,500	Match staff roster
Field Engineer	27	MO	\$9,500	\$256,500					\$256,500	Match staff roster
Safety Manager	5	MO	\$11,500	\$57,500					\$57,500	Match staff roster
Intern	12	MO	\$2,925	\$35,100					\$35,100	Match staff roster
Intern Housing	6	MO					\$3,400	\$20,400	\$20,400	Match staff roster
Field Engineer Equipment	14	MO			\$100	\$1,400	\$250	\$3,500	\$4,900	Match staff roster
Professional Surveyor	1	LSUM					\$10,000	\$10,000	\$10,000	
CPM Printing	14	MO			\$250	\$3,500			\$3,500	
Print Drawings	1	LSUM			\$5,000	\$5,000			\$5,000	
Total				\$436,600		\$9,900		\$33,900	\$480,400	
SAFETY										
Drug Testing	2	EA			\$100	\$200			\$200	
Safety Incentives	14	MO			\$200	\$2,800			\$2,800	
Employee Training	12	MO			\$250	\$3,000	\$275	\$3,300	\$6,300	
First Aid Supplies	1	LS			\$2,500	\$2,500			\$2,500	
Fire Extinguishers (1/5k SF)	10	EA	\$25	\$250	\$50	\$500			\$750	
Salary Badging Costs	10	EA			\$250	\$2,500			\$2,500	
Heat Stress/Lunch Tent	1	LS			\$5,000	\$5,000			\$5,000	
Lunch Area Supplies/Maintenance	14	MO	\$1,000	\$14,000					\$14,000	
Total				\$14,250		\$16,500		\$3,300	\$34,050	

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			\$/UNIT	AMT	\$/UNIT	AMT	\$/UNIT	AMT		
TEMP FACILITIES										
Office Trailer	14	MO					\$1,646	\$23,044	\$23,044	Schedule is 14 months
Office Trailer - Set Up/Removal	1	EA					\$25,898	\$25,898	\$25,898	
Janitorial Service for Office Space	14	MO					\$250	\$3,500	\$3,500	Schedule is 14 months
Temp Toilets	62	MO					\$110	\$6,820	\$6,820	
Wash Stations	28	MO					\$110	\$3,080	\$3,080	
Professional Photos	1	LSUM			\$2,500	\$2,500			\$2,500	
Bulletin Boards	1	EA			\$1,400	\$1,400			\$1,400	
Project Sign	1	EA			\$800	\$800			\$800	
Office Furniture	1	LSUM			\$2,000	\$2,000			\$2,000	
Office Supplies	14	MO			\$600	\$8,400			\$8,400	
Copy Machine (w/ service contract)	14	MO			\$300	\$4,200	\$700	\$9,800	\$14,000	
Fax Machine	1	EA			\$1,000	\$1,000			\$1,000	
Computers	2	EA			\$2,300	\$4,600			\$4,600	
Printers/Plotters	1	EA			\$1,500	\$1,500			\$1,500	
Network Wiring & Data Lines	1	LSUM			\$750	\$750	\$3,000	\$3,000	\$3,750	
Office Software	1	LSUM			\$1,000	\$1,000			\$1,000	
Postage & Shipping	14	MO			\$400	\$5,600			\$5,600	
Telephone & Internet Service Install	1	LSUM					\$15,000	\$15,000	\$15,000	
Telephone & Internet Rental	14	MO					\$1,800	\$25,200	\$25,200	
Temp Fence	550	LF					\$4	\$2,200	\$2,200	
SWPPP Setup	1	LSUM					\$5,000	\$5,000	\$5,000	
SWPPP Maintenance - 20 hrs/month	8	MO	\$3,500	\$28,000					\$28,000	
Dust Control - 20 hrs/month	4	MO	\$2,500	\$10,000					\$10,000	
Drinking Water Service	14	MO			\$50	\$700			\$700	Schedule is 14 months
Ice, Jugs, Cups	14	MO			\$200	\$2,800			\$2,800	Schedule is 14 months
Office Coffee & Cups	14	MO			\$35	\$490			\$490	Schedule is 14 months
Temp Water Service Set Up	1	LSUM					\$2,500	\$2,500	\$2,500	
Temp Water	14	MO					\$200	\$2,800	\$2,800	Schedule is 14 months
Temp Power - Office Usage	14	MO					\$400	\$5,600	\$5,600	Schedule is 14 months
Temp Power - Jobsite Usage	14	MO					\$1,000	\$14,000	\$14,000	Schedule is 14 months
Temp Power - Start Up (1MO)	1	MO					\$10,000	\$10,000	\$10,000	
Temp Parking Area	1	LSUM					\$7,500	\$7,500	\$7,500	
Street Sweeper	60	DAY					\$500	\$30,000	\$30,000	
Total				\$38,000		\$37,740		\$194,942	\$270,682	

BUILDING SERVICES										
Weekly Cleanup (2 man days/wk)	52	WK	\$980	\$50,960	\$50	\$2,600			\$53,560	Carry 52 weeks for project duration. Do not include for first and last month.
Dumpster Rental - 40 CUYD	62	PULL					\$550	\$34,100	\$34,100	
Final Clean-Up - BLDG	39340	SF					\$0.60	\$23,604	\$23,604	Reduce SF to align with project.

X.3.1.a GC ESTIMATE ANSWER

Item	QTY	UNIT	Labor		Material		Equip/Subs		Total	Justification
			\$/UNIT	AMT	\$/UNIT	AMT	\$/UNIT	AMT		
Final Clean-Up - SITE	3	ACRE					\$1,500	\$4,500	\$4,500	Reduce acreage to align with project.
Total				\$50,960		\$2,600		\$62,204	\$115,764	

FORKLIFT, MAJOR EQUIPMENT & TOOLS										
Gradall - 6000# Forklift (1/2 time operation)	4	MO	\$5,500	\$22,000	\$1,000	\$4,000	\$2,200	\$8,800	\$34,800	
Water Truck 2500 GAL	4	MO			\$750	\$3,000	\$2,000	\$8,000	\$11,000	
Generator Unit Rental	3	MO			\$400	\$1,200	\$1,500	\$4,500	\$5,700	
250 CFM Compressor	6	MO			\$500	\$3,000	\$1,500	\$9,000	\$12,000	
Misc. Power Equipment	1	LSUM			\$5,000	\$5,000			\$5,000	
Small Tools	1	LSUM			\$10,000	\$10,000			\$10,000	
Repairs & Maintenance	1	LSUM					\$5,000	\$5,000	\$5,000	
Total				\$22,000		\$26,200		\$35,300	\$83,500	

TRANSPORTATION										
Pickup	28	MO					\$625	\$17,500	\$17,500	Adjust to match staffing
Sedan	12	MO					\$625	\$7,500	\$7,500	Adjust to match staffing
Vehicle Fuel	40	MO			\$600	\$24,000			\$24,000	Adjust to match staffing
Vehicle Maintenance	40	MO			\$100	\$4,000			\$4,000	Adjust to match staffing
Total				\$0		\$28,000		\$25,000	\$53,000	

SUMMARY										
SUPERVISION		LSUM		\$922,400		\$24,000		\$0	\$946,400	
ENGINEERING & SURVEY WORK		LSUM		\$436,600		\$9,900		\$33,900	\$480,400	
SAFETY		LSUM		\$14,250		\$16,500		\$3,300	\$34,050	
TEMP FACILITIES		LSUM		\$38,000		\$37,740		\$194,942	\$270,682	
BUILDING SERVICES		LSUM		\$50,960		\$2,600		\$62,204	\$115,764	
FORKLIFT, MAJOR EQ, & TOOLS		LSUM		\$22,000		\$26,200		\$35,300	\$83,500	
TRANSPORTATION		LSUM		\$0		\$28,000		\$25,000	\$53,000	
SALES TAX ON MATERIAL	8.375%	PCT			\$144,940	\$12,139			\$12,139	Match sales tax in problem statement
TOTAL				\$1,484,210		\$157,079		\$354,646	\$1,995,935	

Check: \$1,995,935 Good