

Attachment #4



Steamboat Springs Fire

4/1/2019

13th and Lincoln Fire Station Only				
	Quantity	unit	unit Cost	Total
Existing conditions				
Soils and material testing				
Phase 1 Report	1	ea	\$10,000.00	\$10,000.00
Assume no hazadrous material on site	0		\$0.00	\$0.00
Traffic Study	1	ea	\$10,000.00	\$10,000.00
Traffic control / permits during construction				
Traffic Control				
Crossing Lincoln				
Traffic control for Lincoln during sanitary and storm water installation				
Enginnered traffic plan	1	1	\$5,500.00	\$5,500.00
Rental and flaggers for over night work during utilities	4	days	\$10,500.00	\$42,000.00
Rental and flaggers for over night work during Conc. Repaving	4	days	\$7,000.00	\$28,000.00
Pedestrian control				
Lincoln street sidewalk	25	days	\$400.00	\$10,000.00
Install pedestrian safe walk way				
Site Prep / grading				
Demo existing buildings	6862	sf	\$7.00	\$48,034.00
Abatement - Phase I Testing / Report Required	6862	sf	TBD	TBD
Demo Asphalt	30721	sf	\$3.00	\$92,163.00
Retaining and Building wall as Foundation - More Expensive Option Not in Cost - For information Only				
Retaining wall at parking area				
160' of retaining wall				
Cut to safe	1352	sq yd	\$20.00	\$27,037.04
Construction of cast in place retaining wall	1620	sqft	\$60.00	\$97,200.00
Underdrain and waterproofing	1620	sqft	\$25.00	\$40,500.00
Back fill of the wall	1352	sq yd	\$17.00	\$22,981.48
				\$0.00
Assume that the wall has a lay back of 1:1 slope				
Assume the highest point of the wall is 18 feet tall				
Assume there is a 10 foot working area at the base				
Assume that the slope is 1:4 from the wall back 50 feet.				
Retaining wall for the bulling				
380' of retaining wall				
Cut to safe	3389	sq yd	\$20.00	\$67,780.74
Additional support for foundation wall	3800	sqft	\$30.00	\$114,000.00
Underdrain and waterproofing	3800	sqft	\$25.00	\$95,000.00
Back fill of the wall	3389	sq yd	\$17.00	\$57,613.63
Assume that the wall has a lay back of 1:1 slope				
Assume the highest point of the wall is 14 feet tall				
Assume there is a 10 foot working area at the base				
Assume that the slope is 1:4 from the wall back 50 feet.				
Retaining wall for east parking				
162' of retaining wall				
Cut to safe	1118	sq yd	\$20.00	\$22,367.41
Additional support for foundation wall	1296	sqft	\$60.00	\$77,760.00
Underdrain and waterproofing	1296	sqft	\$25.00	\$32,400.00
Back fill of the wall	1118	sq yd	\$17.00	\$19,012.30
Assume that the wall has a lay back of 1:1 slope				
Assume the highest point of the wall is 10 feet tall				
Assume there is a 10 foot working area at the base				
Assume that the slope is 1:4 from the wall back 50 feet.				
				\$673,652.59
Shotcrete Retaining wall - Norml Building Foundation -Most Cost Effective Option Used in Cost Estimate				
Retaining wall at parking area				
160' of retaining wall				
Cut to safe	1352	cy	\$36.00	\$48,666.67
Shot crete Wall	676	sqft	\$70.00	\$47,314.81
Underdrain	800	sqft	\$18.00	\$14,400.00
Assume that the wall has a lay back of 2:1 slope				
Assume the highest point of the wall is 18 feet tall				
Assume there is a 10 foot working area at the base				
Assume that the slope is 1:4 from the wall back 50 feet.				
Retaining wall for the bulling				
380' of retaining wall				
Cut to safe	3389	cy	\$36.00	\$122,005.33
Shot crete wall	1695	sqft	\$70.00	\$118,616.30
Underdrain	1200	sqft	\$18.00	\$21,600.00
Assume that there is no back fill on the foundation wall				
Assume that the wall has a lay back of 2:1 slope				
Assume the highest point of the wall is 14 feet tall				
Assume there is a 10 foot working area at the base				
Assume that the slope is 1:4 from the wall back 50 feet.				
Retaining wall for east parking				
162' of retaining wall				
Shot crete wall	1118	cy	\$36.00	\$40,261.33
Construction of cast in place retaining wall	559	sqft	\$70.00	\$39,142.96
Underdrain	600	sqft	\$18.00	\$10,800.00
Assume that the wall has a lay back of 2:1 slope				
Assume the highest point of the wall is 10 feet tall				
Assume there is a 10 foot working area at the base				
Assume that the slope is 1:4 from the wall back 50 feet.				
				\$462,807.41
Soil Conditions				
Construction dewatering				
Installation	1	ea	\$15,000.00	\$15,000.00
Monthly cost of water midigation	16	mon	\$7,500.00	\$120,000.00
Permanent installation of dewatering	1	EA	\$250,000.00	\$250,000.00
Long tem monitoring of dewatering				
Exterior Improvements				
Wet Utilities				
Storm Piping				
Would need to run from Lincoln to Yampa				
Sanitary Piping	600	lf	\$350.00	\$210,000.00
10" PVC Sanitary				
Would need to run from Lincoln to Yampa				
Could run Parrell to the Storm and completed at the same time				
Sanitary Piping	600	lf	\$290.00	\$174,000.00
2" City Conduit				
This is a live communication for the city				
Assume relocation on Oak Street				
Traffic Signal				
New signal at 13th and Lincoln				
	1	ea	\$750,000.00	\$750,000.00
Public Utilities				
Existing Concrete Encassed Qwest Duct Bank				
Live Communication not owned by city				
Assume relocation on north to Oak Street East to 10th and south to alley				
		ft	\$250.00	\$0.00
Gas line				
Assume that seperation requirement can be met				
Assume relocation on north to Oak Street East to 10th and south to alley				
		ft	\$40.00	\$0.00
YVEA				
\$250,000 per block min 5-6 blocks				
City would have to up front the money and may apply for funds in 10 years				
			\$250,000.00	\$0.00
Possibility that fewer blocks would have to be undergrounded				
Assume that the new line would be able to relocate to oak street in same way as gas line				
		ft	\$250,000.00	\$0.00
		ft	\$45.00	\$0.00
Domestic Water/Replace hardscape to Oak and East of Oak to 10th				
		ft	\$150.00	\$0.00
No water is in the Alley. Costs would compaire to any site				
Paving				
Temp Patching during construction				
	200	sq/yr	\$58.00	\$11,600.00
Landscaping requirements				
None assumed				
Alley Vacation				
Cost to purchase				
Cost of Entitlements				
Cost of Tap Fees				
Cost of Relocation				
Cost of public parking relocation				
Cost of floodplain design / vacation				
SUBTOTALS				\$2,239,104.41

10th and Lincoln Alley Way Relocating of the Utilities.				
	Quantity	unit	unit Cost	Total
Existing conditions				
Soils and material testing	1	1	\$50,000.00	\$50,000.00
Phase 1 Report - Hazardous soil testing with on site inspector to verify extent				
Documentation to the State				
Documentation to the landfill and inspection of separation of material at landfill				
Traffic Study	1	ea	\$10,000.00	\$10,000.00
Traffic control / permits during construction				
Traffic Control				
Crossing Lincoln				
Traffic control for Lincoln during sanitary and storm water installation				
Enginnered traffic plan	1	1	\$5,500.00	\$5,500.00
Rental and flaggers for over night work during utilities	4	days	\$10,500.00	\$42,000.00
Rental and flaggers for over night work during Conc. Repaving	4	days	\$7,000.00	\$28,000.00
Traffic control for Oak				
Traffic control for Lincoln during sanitary and storm water installation				
Enginnered traffic plan	1	1	\$5,500.00	\$5,500.00
Rental	15	days	\$3,500.00	\$52,500.00
Rental and flaggers for over night work during Conc. Repaving	4	days	\$4,250.00	\$17,000.00
Provide access to one parking lot				
Access to parking in the Alley	25	days	\$1,000.00	\$25,000.00
Pedestrian control				
Lincoln and Oak street	25	days	\$400.00	\$10,000.00
Install pedestrian safe walk way				
Site Prep / grading				
Demo existing city building	8963	sf	\$7.00	\$62,741.00
Abatement	8963	sf	TBD	TBD
Demo Asphalt	29953	sf	\$3.00	\$89,859.00
Erosion Control / Surrounding roads				
Construction over Soda Creek	10	days	\$5,000.00	\$50,000.00
Seasonal redirection of soda creek in two locations				
Typical erosion control				
Monitoring of erosion control from Yampa st to Oak and from 10th to 11th	5	months	\$20,000.00	\$100,000.00
Soil Conditions				
Remove and dispose of contaninated soils at 10th between Oak and Lincoln				
Assume 250 ft by 250ft 10 feet deap of soils removal	23148.15	cy	\$50.00	\$1,157,407.41
This would be a cost for the building and is not necessary a utility relocation cost				
Assume the water table is 10' below grade				
Exterior Improvements				
Wet Utilites				
Storm Piping				
Would need to run from 10th Street to Yampa	600	lf	\$350.00	\$210,000.00
Sanitary Piping				
10 " PVC Sanitary	600		\$290.00	\$174,000.00
Would need to run from 10th Street to Yampa				
Could run Parrell to the Storm and completed at the same time				
2" City Conduit				
This is a live communication for the city	800 ft		\$125.00	\$100,000.00
Assume relcation on Oak Street				
Traffic Signal				
New signal at 10th and Lincoln	not inculed	ea	\$0.00	\$0.00
Assume that no new signal is required at 10th and Lincoln				
Programing and expaning the current ----- system	1	ea	\$50,000.00	\$50,000.00
Public Utilities				
Existing Concrete Encassed Qwest Duct Bank				
Live Communication not owned by city	800	ft	\$250.00	\$200,000.00
Assume relcation on north to Oak Street East to 10th and south to alley				
Gas line				
Assume that seperation requirement can be met	800	ft	\$80.00	\$64,000.00
Assume relcation on north to Oak Street East to 10th and south to alley				
YVEA				
\$250,000 per block min 5-6 blocks	5		\$250,000.00	\$1,250,000.00
City would have to up front the money and may apply for funds in 10 years				
Possibility that fewer blocks would have to be undergrounded				
Assume that the new line would be able to relocate to oak street in same way as gas line	1	ft	\$250,000.00	\$250,000.00
Demo existing street and hardscape	800	ft	\$45.00	\$36,000.00
Replace hardscape to Oak and East of Oak to 10th	800	ft	\$150.00	\$120,000.00
Domestic Water				
No water is in the Alley. Costs would compaire to any site				
Paving				
Repave oak, and 10th	see above			
Temp Patching during construction	600	sq/yr	\$58.00	\$34,800.00
Landscaping requirements				
None assumed				
Ground Water mitigation				
None assumed				
Alley Vacation				
Cost to purchase				
Cost of Entitlements				
Cost of Tap Fees				
Cost of Relocation				
Cost of public parking relocation				
Cost of floodplain design / vacation				
SUBTOTALS				\$ 4,194,307.41

10th and Lincoln				
Build Vault for Utilities to Remain Under Building - Exception Natural Gas Line				
	Quantity	unit	unit Cost	Total
Existing conditions				
Soils and material testing	1	1	\$50,000.00	\$50,000.00
Phase 1 Report - Hazardous soil testing with on site inspector to verify extent				
Documentation to the State				
Documentation to the landfill and inspection of separation of material at landfill				
Traffic Study	1	ea	\$10,000.00	\$10,000.00
Traffic control / permits during construction				
Traffic Control				
Crossing Lincoln				
Traffic control for Lincoln during sanitary and storm water installation				
Engineered traffic plan	0	1	\$5,500.00	\$0.00
Rental and flaggers for over night work during utilities	0	days	\$10,500.00	\$0.00
Rental and flaggers for over night work during Conc. Repaving	0	days	\$7,000.00	\$0.00
Traffic control for Oak				
Traffic control for Lincoln during sanitary and storm water installation				
Engineered traffic plan	1	1	\$5,500.00	\$5,500.00
Rental	15	days	\$3,500.00	\$52,500.00
Rental and flaggers for over night work during Conc. Repaving	4	days	\$4,250.00	\$17,000.00
Provide access to one parking lot				
Access to parking in the Alley	10	days	\$1,000.00	\$10,000.00
Pedestrian control				
Lincoln and Oak street	0	days	\$400.00	\$0.00
Install pedestrian safe walk way				
Site Prep / grading				
Demo existing city building	8963	sf	\$7.00	\$62,741.00
Abatement	8963	sf	TBD	TBD
Demo Asphalt	29953	sf	\$3.00	\$89,859.00
Erosion Control / Surrounding roads				
Construction over Soda Creek				
Seasonal redirection of soda creek in two locations	10	days	\$5,000.00	\$50,000.00
Typical erosion control				
Monitoring of erosion control from Yampa st to Oak and from 10th to 11th	0	months	\$20,000.00	\$0.00
Soil Conditions				
Remove and dispose of contaminated soils at 10th between Oak and Lincoln				
Assume 250 ft by 250ft 10 feet deep of soils removal	23148.15	cy	\$50.00	\$1,157,407.41
This would be a cost for the building and is not necessary a utility relocation cost				
Exterior Improvements				
Wet Utilities				
Storm Piping				
Recasing of the piping and hang	200	lf	\$225.00	\$45,000.00
Sanitary Piping				
10" PVC Sanitary				
Recasing of the piping and hang	200	lf	\$215.00	\$43,000.00
Could run Parrell to the Storm and completed at the same time				
2" City Conduit				
This is a live communication for the city				
Rehang line	200		\$125.00	\$25,000.00
Traffic Signal				
New signal at 10th and Lincoln	not inculed	ea	\$0.00	
Assume that no new signal control is required at Lincoln adjacent streets				
Programing and expanding the current ----- system	1	ea	\$50,000.00	\$50,000.00
Public Utilities				
Existing Concrete Encassed Qwest Duct Bank				
Live Communication not owned by city	200	ft	\$250.00	\$50,000.00
Hange line or shore				
Gas line				
Assume that seperation requirement can be met	800	ft	\$40.00	\$32,000.00
Assume relocation on north to Oak Street East to 10th and south to alley				
YVEA				
\$250,000 per block min 5-6 blocks	0		\$250,000.00	\$0.00
City would have to up front the money and may apply for funds in 10 years				
Lower lines underground for one block	1	ea	\$250,000.00	\$250,000.00
Assume that the new line would be able to be located in the underground vault	0	ft	\$250,000.00	\$0.00
Demo and repair the ally where the poles were removed	10	ft	\$800.00	\$8,000.00
Domestic Water				
No water is in the Alley. Costs would compaire to any site				
Paving				
Repave oak, and 10th				
Temp Patching during construction of oak street	0	sq/yr	\$58.00	\$0.00
Building the vault				
Concrete vault under the building				
Assume it is traffic rated for the app bay	250	ft	\$750.00	\$187,500.00
Assume 2-3 access hatches				
Excavate for Vault	2314.81481	cy	\$30.00	\$69,444.44
temp shoring for vault walls	5500	sf	\$30.00	\$165,000.00
CIP Vault Floor	6250	sf	\$10.00	\$62,500.00
Vault Walls	5500	sf	\$32.00	\$176,000.00
Vault Lid - Shoring	6250	sf	\$27.00	\$168,750.00
Vault Lid - Form, Pour and Concrete	310.570988	cy	\$265.00	\$82,301.31
Access Hatches	3	ea	\$4,500.00	\$13,500.00
Landscaping requirements				
None assumed				
Ground Water mitigation				
None assumed				
Alley Vacation				
Cost to purchase				
Cost of Entitlements				
Cost of Tap Fees				
Cost of Relocation				
Cost of public parking relocation				
Cost of floodplain design / vacation				
SUBTOTALS				\$2,933,003.16

10th and Lincoln				
Allow Alley to Remain - Split Apparatus Bays and Fires Station into Two Buildings				
	Quantity	unit	unit Cost	Total
Existing conditions				
Soils and material testing	1	1	\$50,000.00	\$50,000.00
Phase 1 Report - Hazardous soil testing with on site inspector to verify extent				
Documentation to the State				
Documentation to the landfill and inspection of separation of material at landfill				
Traffic Study	1	ea	\$10,000.00	\$10,000.00
Traffic control / permits during construction				
Traffic Control				
Crossing Lincoln				
Traffic control for Lincoln during sanitary and storm water installation				
Enginnered traffic plan	0	1	\$5,500.00	\$0.00
Rental and flaggers for over night work during utilities	0	days	\$10,500.00	\$0.00
Rental and flaggers for over night work during Conc. Repaving	0	days	\$7,000.00	\$0.00
Traffic control for Oak				
Traffic control for Lincoln during sanitary and storm water installation				
Enginnered traffic plan	0	1	\$5,500.00	\$0.00
Rental	0	days	\$3,500.00	\$0.00
Rental and flaggers for over night work during Conc. Repaving	0	days	\$4,250.00	\$0.00
Provide access to one parking lot				
Access to parking in the Alley for relocation of Gass line	15	days	\$1,000.00	\$15,000.00
Pedestrian control				
Lincoln and Oak street		days	\$400.00	\$0.00
Install pedestrian safe walk way				
Site Prep / grading				
Demo existing city building	8963	sf	\$7.00	\$62,741.00
Abatement	8963	sf	TBD	TBD
Demo Asphalt	29953	sf	\$3.00	\$89,859.00
Erosion Control / Surrounding roads				
Construction over Soda Creek				
Seasonal redirection of soda creek in two locations	10	days	\$5,000.00	\$50,000.00
Typical erosion control				
Monitoring of erosion control of Oak street and from 10th to 11th	2	months	\$20,000.00	\$40,000.00
Soil Conditions				
Remove and dispose of contaninated soils at 10th between Oak and Lincoln				
Assume 250 ft by 250ft 10 feet deap of soils removal	23148.15	cy	\$50.00	\$1,157,407.41
This would be a cost for the building and is not necessary a utility relocation cost				
Exterior Improvements				
Wet Utilites				
Storm Piping				
Would need to run from 10th Street to Yampa		lf	\$350.00	\$0.00
Sanitary Piping				
10 " PVC Sanitary			\$290.00	\$0.00
Would need to run from 10th Street to Yampa				
Could run Parrell to the Storm and completed at the same time				
2" City Conduit				
This is a live communication for the city	800	lf	\$125.00	\$100,000.00
Assume relcation on Oak Street				
Traffic Signal				
New signal at 10th and Lincoln	not inculed	ea	\$0.00	
Assume that no new signal is required at 10th and Lincoln				
Programing and expaning the current signal control system	1	ea	\$50,000.00	\$50,000.00
Public Utilities				
Existing Concrete Encassed Qwest Duct Bank				
Live Communication not owned by city		ft	\$250.00	\$0.00
Assume relcation on north to Oak Street East to 10th and south to alley				\$0.00
Gas line				
Assume that seperation requirement can be met	800	ft	\$40.00	\$32,000.00
Assume relcation on north to Oak Street East to 10th and south to alley				
YVEA				
\$250,000 per block min 5-6 blocks	0		\$250,000.00	\$0.00
City would have to up front the money and may apply for funds in 10 years				\$0.00
Lower lines underground around building	1	ea	\$250,000.00	\$250,000.00
Demo and repair the ally where the poles were removed	10	ft	\$800.00	\$8,000.00
Domestic Water				
No water is in the Alley. Costs would compaire to any site				\$0.00
Paving				
Temp Patching during construction of oak street	200	sq/yr	\$58.00	\$11,600.00
Create an opening in the bulding to allow the alley to stay open				
Additional SQFT of extrior wall	800	sf	\$125.00	\$100,000.00
Additional Building Structure	7.5	tons	\$5,500.00	\$41,250.00
Additional Building Systems - Elec, finishes, etc)	500	sf	\$142.00	\$71,000.00
Additional SQFT of building soffit and roof covering	1000	sqft	\$45.00	\$45,000.00
Additional paving and site work	2500	sqft	\$35.00	\$87,500.00
Alley Vacation				
Cost to purchase				
Cost of Entitlements				
Cost of Tap Fees				
Cost of Relocation				
Cost of public parking relocation				
Cost of floodplain design / vacation				
SUBTOTALS				\$ 2,271,357.41