



# Fire Suppression Services, Inc.

3802 South 2300 East  
Salt Lake City, Utah 84109-3421  
Contractor License No. 92-252208-5501  
801.277.6464 • 800.273.6465 • 801.278.2199 - FAX

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DATE 11/9/2018

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## Capitol Reef Resort

PO Box 750160  
2600 East Highway 24  
Torrey, UT 84775

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## Capitol Reef Resort

2600 East Highway 24  
Torrey, UT 84775

Billing		Job Site		SALESMAN :		TANK		CARTRIDGE	
PHONE		435-425-3761		Heath Dangerfield		DATE	TYPE	DATE	
FAX		435-425-3300		EE # 61931					
CONTACT		Duane		E-MAIL :					
DIRECT #				Duane@Capitolreefresort.com					
WET SYSTEM		DRY CHEM SYS		ALARMS		INSTALLATION		Mileage One-Way	
X WATER SPRINKLER		EMER LIGHTING		CLEAN AGENT		TIME & MATERIALS		Drive Time One-Way	
EXTINGUISHERS		STEAM CLEAN		EMERGENCY		X REPAIR		0 H 00 Min	
								TIME 0:00	
								UNIT PRICE	
								NON TAX	
								TAXABLE	
Friday, November 09, 2018						\$ -	\$ -	\$ -	
SCOPE OF WORK - INSTALL NEW PRESSURE						\$ -	\$ -	\$ -	
REDUCING VALVE ON FIRE RISER						\$ -	\$ -	\$ -	
						\$ -	\$ -	\$ -	
						\$ -	\$ -	\$ -	
AS PER BID DATED 9-20-2018						\$ -	\$ -	\$ -	
						\$ -	\$ -	\$ -	
						\$ -	\$ -	\$ -	
						\$ -	\$ -	\$ -	
1 QUOTED FOR LABOR AND PARTS						\$ 10,331.08	\$ 10,331.08	\$ -	
						\$ -	\$ -	\$ -	
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info@Capitolreefresort.com						\$ -	\$ -	\$ -	
Jessica@Capitolreefresort.com						\$ -	\$ -	\$ -	
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TRANSPORTATION						\$ -	\$ -	\$ -	
HAZARDOUS MATERIAL DISPOSAL CHARGE								\$ -	
DUE WHEN LAST COMPANY NUMBER ON PROPERTY				8% MISCELLANEOUS MATERIALS, INSURANCE, ETC.		\$ -	\$ -	\$ -	
EXTINGUISHER				CODE		SUBTOTAL	\$ 10,331.08	\$ -	
EM / EX LIGHTING						TRANSPORTATION	\$ -	\$ -	
HOOD CLEANING				REFILE		Non-Taxable Total	\$ 10,331.08	\$ -	
RISER				NONE		Taxable Sales	\$ -	\$ -	
						SALES TAX	\$ -	\$ -	
						Freight	\$ -	\$ -	
						Handling	\$ -	\$ -	

I, RECEIPT OF COPY: CUSTOMER ACKNOWLEDGES RECEIPT OF COPY AND THAT HE UNDERSTANDS ALL OF THIS AGREEMENT AND PARTICULARLY PARAGRAPHS 1.2, 3.4 AND 5 ON THE REVERSE WHICH SETS FORTH COMPANY'S MAXIMUM LIABILITY. THE SYSTEMS HAVE BEEN SERVICED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION STANDARDS AND CODES OR CURRENT MFG. SERVICE REQUIREMENTS AND DOES NOT CERTIFY THE DESIGN AND / OR THE INSTALLATION CRITERIA. CLAIMS WILL NOT BE HONORED AFTER TEN (10) DAYS FROM DATE OF SERVICE.

Net 15 Days	RECEIVED IN GOOD ORDER AND ACCEPTED	TOTAL	\$ 10,331.08
	WORK AUTHORIZATION NUMBER		
	PURCHASE / WORK ORDER NUMBER		
	BY X AS PER BID DATED 9-20-2018		
	BUYER SHALL PAY SELLER FOR THIS PURCHASE		

INTEREST WILL BE CHARGED ON OVERDUE ACCOUNTS: 3% PER MONTH MINIMUM BILLING OF \$35.00

"THIS INVOICE IS ALSO YOUR STATEMENT"

THANK YOU



## FIRE SUPPRESSION SERVICES, INC.

3802 South 2300 East  
Salt Lake City, UT 84109

Contractors License # 92-252208-5501

Bard Holbrook - President      Heath Dangerfield - Estimator/Project Manager

801-277-6464  
800-273-6465  
Fax 801-278-2199  
[Hdangerfss@gmail.com](mailto:Hdangerfss@gmail.com)

September 20, 2018

TO: Capitol Reef Resort  
Attn: Duane Dasse  
2600 Highway 24  
P.O. Box 750160  
Park City, Utah 84060

Phone: (435) 425-3761  
Fax: (435) 425-3300  
Email: [duane@resortih.com](mailto:duane@resortih.com)

RE: Install pressure reducing valve on fire riser.

Fire Suppression Services submits this quote to re-install fire sprinkler riser as per approved specifications and drawing at the location referenced above.

SCOPE OF WORK:

1. Shut down and drain system from underground shut off.
2. Modify existing fire sprinkler riser as per drawing in specs.
3. Re-use existing parts on fire sprinkler riser.
4. Install one (1) new 4" inch Cla-Val model 90A-60.
5. Install one (1) new Cla-Val model 55 pressure relief valve.
6. Boost antifreeze levels to -30 (No Charge).
7. Return systems to service.

**TOTAL FOR ALL:                      \$    10,331.08**

EXCLUSIONS:

- A. **We cannot be responsible for repair of sheetrock or other materials if they need to be cut open or removed to repair piping. This is to be done by others.**

TERMS:

- A. Labor was calculated at regular day rate and will be performed during regular business hours (8am-5pm).  
B. This quote is good for only 45 days after the date at the top of the quote. Call to verify quote after 45 days.  
C. Room and sustenance to be provided by customer.  
D. See FSSI Terms and Conditions.

On September 7, 2018 I was onsite checking on an antifreeze solution recharge that was done in the middle of July at the location referenced above. The reason the system had to be recharged was because the pressure relief valve constantly discharged the antifreeze in the system. While I was onsite I checked the antifreeze solution and walked the maintenance department through the shutdown procedure of the system. I also marked the pressure gauge at 145 psig on the antifreeze system and tested the antifreeze because the pressure relief valve vessel was about a quarter of the way full. The solution in the system tested at -25° f while the solution in the vessel tested at +17° f. This led me to believe they had been having some severe pressure spikes. Which had diluted the solution in the system because the premix glycol we used during the recharge has a freeze rating of about -30° f. I notified management of my assumption.

I had other jobs in the area to tend to so I left. That was around 9 am. At about 11:30 am I received a phone call from the management stating that a leak had developed at the main riser in the basement. I told the manager to isolate the antifreeze system, shutoff the fire sprinkler main and drain the wet system.

I arrived back onsite about 1:30 pm. Upon checking the antifreeze system the pressure relief valve had been shutoff, because the overflow vessel had nearly filled to the top. I checked the gauge that I had marked at 145 psig that morning and the gauge was pinged out at over 300 psig. I immediately opened the isolation valve and allowed the excess pressure to drain, then we had maintenance check the rooms to be sure we didn't have any leaks develop from the excess pressure.

I called parts in and initiated fire watch. The next morning my technician with arrived with the parts to make the repair. While repairing the system we had to cut out some piping to remove the main riser pipe. Upon removing the pipe we found that the pipe hadn't blown a hole in it, but the pressure hit it so hard it had actually blown an grooved coupling out of its groove. This caused the main riser to begin leaking. We made the necessary repairs. While working on the system we had to drain the pressure off of the antifreeze system, so as not to cause any further damage while working on the system. Before pumping the solution back into the system we tested the levels which came to +12° f.

At this point I would recommend installing a pressure reducing valve to control the city pressure allowed in the fire sprinkler system. This must be done before the antifreeze levels can be corrected as another pressure spike from the city would ruin a fresh charge.

Fire Suppression Services carries a \$5,000,000.00 liability insurance policy, is licensed with the State of Utah and has over 40 years experience in the fire protection industry.

All work will be performed in a workman-like manner, comply with current NFPA Standards, Manufacturers' specifications and all state and local codes.

Thank you for your consideration of this quote, and the opportunity to serve you. If we can further assist with this or any of your other fire protection and safety needs, please call.

Cordially;

**Heath Dangerfield**

Estimator / Project Manager

**Acceptance of quotation** – The prices, terms and conditions are satisfactory and are hereby accepted on initialed items. You are authorized to proceed with this project as specified.

Signature \_\_\_\_\_

Date \_\_\_\_\_

Print name \_\_\_\_\_

Phone \_\_\_\_\_

Address \_\_\_\_\_

*Work cannot begin until this signed acceptance is returned.*