

NEVADA COMMISSION FOR  
CULTURAL CENTERS AND HISTORIC PRESERVATION (CCCHP)  
**GRANT APPLICATION FOR FY2019-2020**

For SHPO use only  
Initials: SJ  
Received: 3/2/20  
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Delivery Svc: USPS

**APPLICATION COVER PAGE** *(This unaltered form must be submitted with the application.)*

Applicant Organization: Tonopah Historic Mining Park Foundation

EIN (Taxpayer Identification Number): 88-0464320

Mailing Address: PO Box 965

City: Tonopah County: Nye ZIP: 89049

Project Contact: Chris Mulkerns Title: Administrative Manager

Daytime Phone: 775-482-6336 Evening Phone: 775-482-4877

Fax: 775-482-3778 Email: tpu@frontier.net

Project Title: Silver Top Trestle Rehabilitation & Desert Queen Headframe Rehabilitation

Project Address: PO Box 965/110 Burro Avenue, Tonopah, NV 89049

City: Tonopah County: Nye County ZIP: 89049

Project Type:  Rehabilitation/Construction  Planning/Construction  Architectural/Engineering Study/Construction

Historic Property Name: Tonopah Historic Mining Park Date Built: 1900+

Property Insured:  Yes; please enclose one copy of policy  No; please explain: \_\_\_\_\_

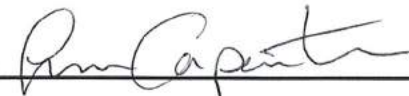
**Project Synopsis (brief):** Rebuild the visitor bridge from the Silver Top headframe to the orehouse and recreate the trestle above it to illustrate how the ore was taken from the mine to the ore sorting house and then to the railroad. Rehabilitation to the Desert Queen headframe and hoist house.

Proposed Start Date: when funds are available

Proposed End Date: determined by grant funds

<b>Project Budget Summary:</b>	
Amount Requested:	\$ <u>255,715.40</u>
Proposed Match: Cash	\$ <u>75,000.00</u>
In-Kind/Donations:	\$ <u>84,901.00</u>
Total Project Budget:	\$ <u>415,616.40</u>

**Applicant's authorized signature:**



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Name (please print): Ann Carpenter

Title: THMPF Director

Date: 02/25/2020

**GRANT APPLICATION FOR 2019-2020  
TONOPAHI HISTORIC MINING PARK FOUNDATION**



**I HAVE READ THE 2019-2020 CCCHP  
APPLICATION GRANTS MANUAL\***

**\*PLEASE NOTE—IF THIS PAGE IS NOT SIGNED, THE APPLICATION IS  
CONSIDERED INCOMPLETE, AND CANNOT MOVE FORWARD IN THE FUNDING  
PROCESS.\***

**I HAVE READ THE GRANTS MANUAL AND COMPLETED THIS CCCHP APPLICATION FOR  
2019-2020 AND CERTIFY THE INFORMATION CONTAINED HEREIN IS TRUE AND  
CORRECT TO THE BEST OF MY KNOWLEDGE.**

**Applicant's authorized signature:**

Chris Mulkerns

Title: Administrative Manager

Name (please print): Chris Mulkerns

Date: 2/25/2020

# GRANT APPLICATION FOR 2019-2020

## TONOPAH HISTORIC MINING PARK FOUNDATION

### PART II: PROJECT

#### 1. Project Description.

The Tonopah Historic Mining Park is an open-air, hands-on museum, but currently two of the historical landmarks are closed to the public due to safety issues. The bridge leading to the Silver Top orehouse from the headframe needs to be rebuilt. At the same time, we would like to recreate the upper trestle that ran from the orehouse to the headframe. The ore from the Silver Top shaft was hand trammed on the upper level trestle and dumped into the grizzly screens on the upper level of the orehouse. Currently there is very little upper trestle still existing, and it is in such bad shape that it will not last very long. This will significantly increase the historical mine experience for visitors, and repairing the bridge is a necessity. The Desert Queen headframe has large cracks in its cement footings and the wood is rotting away where it is embedded in the concrete. Many of the cross beams have fallen onto the ground and the rest are hanging in place by chains and not even connected to the headframe. The hoist house is not accessible by the public. The stairs need rebuilt, the flooring on the upper level needs to be redone in some areas, and windows must be installed. These are amazing features to have at the Park, but if something is not done soon, then they will fall into disrepair. Funding for this is essential in that these projects need to be completed fully and correctly instead of being done on a shoe-string budget. The safety of the public is at stake here.

**a) What building(s), prehistoric feature, historic feature, or culturally significant feature are you restoring/rehabilitating?**

Silver Top mine bridge and trestle and Desert Queen headframe and hoist house.

**b) What is the historical significance of the property?**

Both of these mines are situated inside the Tonopah Historic Mining Park. These mines were first located by Jim & Belle Butler in 1900. In June 1901, they were sold to the Tonopah Mining Company of Nevada, although the current mine leasers were allowed to stay and continue their leasing of these claims until December 31, 1901. In 1902 the Tonopah Mining Company began development of these mines. The Desert Queen headframe and hoist house were built in 1904 and the Silver Top orehouse was built in 1907. The trestle was also built in 1907.

The Silver Top mine is the only historic mine in the State of Nevada with almost all of its original components in existence, which includes the headframe, hoist house, orehouse, and the Tonopah and Goldfield Railroad bed. Rebuilding the trestle with tram tracks would not only be historically accurate, but would increase the historical and educational value of the mine.

The Desert Queen mine shaft was used as the rescue shaft for the Tonopah-Belmont Development Company's mine fire in 1911 that killed 17 miners. Big Bill Murphy lost his life while saving fellow miners lives.

**c) How do you propose to restore/rehabilitate it?**

The Silver Top mine plan is to rebuild the bridge to the orehouse and reconstruct the upper trestle which connected the headframe to the upper level of the orehouse.

# **GRANT APPLICATION FOR 2019-2020**

## **TONOPAH HISTORIC MINING PARK FOUNDATION**

The Desert Queen mine plan is to replace the missing metal corrugated siding on the hoist house, replace broken glass in windows, replace missing and loose beams in the headframe, replace tensioning rods, support headframe with steel beams and jacks, cut headframe loose from foundation, remove deteriorated concrete footings, excavate and pour new footings, install knife plates on beams and reattach to new foundation.

**d) Who will be doing the work?**

Simerson Construction, Carson City, Nevada. In the past, THMPF has had an extremely difficult time trying to find a contractor who can do the work for us for the amount of money we have available. Also, due to the specialty work being done, it is not a job for just anyone to complete. We already have a good track record with them and they have done an amazing and complete job on our Silver Top headframe.

**e) What is the timeline for the project?**

The timeline for this project will be less than a year and will follow the grant guidelines.

**f) Who holds title to the property?**

The unincorporated Town of Tonopah, Nevada.

### **2. Building Use/Community Involvement**

**a) How and by whom will the facility be used?**

This property is a living, open air museum, which is utilized by the general public, school groups, and mine rescue groups. It is open to the public 7-days a week, except for state and national holidays.

**b) Who will be responsible for management of the building and its programs/activities?**

The management will remain the responsibility of the Town of Tonopah, while many of the programs/activities remain the responsibility of the Tonopah Historic Mining Park Foundation.

**c) How has the community been involved in your project?**

There are local residents on the Foundation's Board of Directors that regularly participate in these projects. We also have continued support from the general public and from the local businesses in the area, not to mention tours from local groups.

**d) How will the community continue to be involved in your project?**

By completing these projects, all visitors will be able to interact with these two sites.

**e) How will the community continue to be involved in the use of the building?**

This site will continue to be a living, open air museum, utilized by the public and will enable them to see up close and personal what it was like to work in the mines. Enabling the public to be able to see inside the buildings provides an educational experience that cannot be replicated in any other way.

# **GRANT APPLICATION FOR 2019-2020**

## **TONOPAH HISTORIC MINING PARK FOUNDATION**

**f) How are your restoration/rehabilitation plans related to the uses of the building?**  
The Silver Top mine trestle with tram tracks would be a historical replication of the original one built there. The rest of the repairs made to both mines will not only make the areas a safe place for visitors, but will also ensure their continued existence.

**g) What importance to tourism (cultural or otherwise) will the facility have?**  
This site is already very important to tourism and making these features accessible to the public will increase visitors to the Park.

### **3. Project Support/Financial**

**a) What specific contributions (cash, land, labor, materials, etc.) your community and other sources have already made to the project?**

Tonopah Historic Mining Park Foundation feels based on previous successes at the Mizpah and Silver Top Head Frame restorations they are confident that they can contribute between \$50,000 to \$75,000 to this project if the grant is awarded. So far, we have received \$940 in cash for the Silver Top Trestle Project and a donation of mine rails to be installed onto the trestle. We have received \$275 in cash for the Desert Queen Rehabilitation Project.

**b) What grants and additional funding (last three years), including amounts, has the organization received or will receive for this project?**

For these specific projects we have not received any grants. Our additional funding to date is listed above.

**c) What additional contributions are projected in order to complete the project?**

We anticipate having at least approximately \$40,000 of in-kind service and \$40,000 in misc. donations (already raised) to match this project.

**d) How will your facility sustain itself financially in the future?**

As we have in the past, which is by program fees, gift shop sales, donations, and the Town of Tonopah's operating and employee budgets.

**e) Please provide evidence that you can implement the project and maintain a viable program in the future.**

The Tonopah Historic Mining Park first opened to the public in June 1999, and has become more successful each year of operation.

### **4. Planning**

**a) If your project includes planning, please describe the process.**

Planning portion of this project has been completed.



**GRANT APPLICATION FOR 2019-2020  
TONOPAHA HISTORIC MINING PARK FOUNDATION**

**PART II: SUPPLEMENTAL INFORMATION**

- 1. Photographs of all exterior elevations with views, identified and keyed to a site plan.**



**Desert Queen headframe and hoist house facing northeast.**

**Desert Queen headframe footings facing southwest.**





**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**

**Silver Top headframe, hoist house, bridge & trestle, and orehouse facing southwest.**



**Bridge from Silver Top headframe to orehouse facing south.**



## GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION

2. **Organization's mission statement, including length of time established, and history.**  
The Tonopah Historic Mining Park Foundation preserves the mining history and heritage of Nevada through the acquisition and preservation of museum collections, and the presentation of quality exhibits and educational activities.

The Tonopah Historic Mining Park Foundation received it's 501c3 status from the IRS in October 2000. Since its creation the Foundation has assisted the Tonopah Historic Mining Park with many different aspects of historical preservation and improvements to the property to increase the number of annual visitors to the Park.

**A detailed report on current CCCHP grant status (if applicable), as well as the outcome of previous CCCHP or CCA grants (if applicable).**

2001 CCA-01-14 \$102,000 Complete

Project Scope: Rehabilitation of the Tonopah Mining Park's multiple buildings:

2002 CCA-02-14 \$105,000 Complete

Project Scope: Rehabilitation of buildings/structures within the THMP

2003 CCA-03-14 \$85,000 Complete

Project Scope: Rehabilitation of Tonopah Mining Park (Complex)

2004 CCA-04-20 \$42,000 Complete

Project Scope: Tonopah & Goldfield Railroad trestle restoration

2005 CCA-05-16 \$63,641.77 Complete

Project Scope: Mizpah headframe & complex

2009 CCA-09-19 \$35,000 Complete

Project Scope: Silver Top & Desert Queen Construction Cost Estimate

2017 CCCHP-17-13 \$106,322 Complete

Project Scope: Silver Top Mine Headframe Rehabilitation

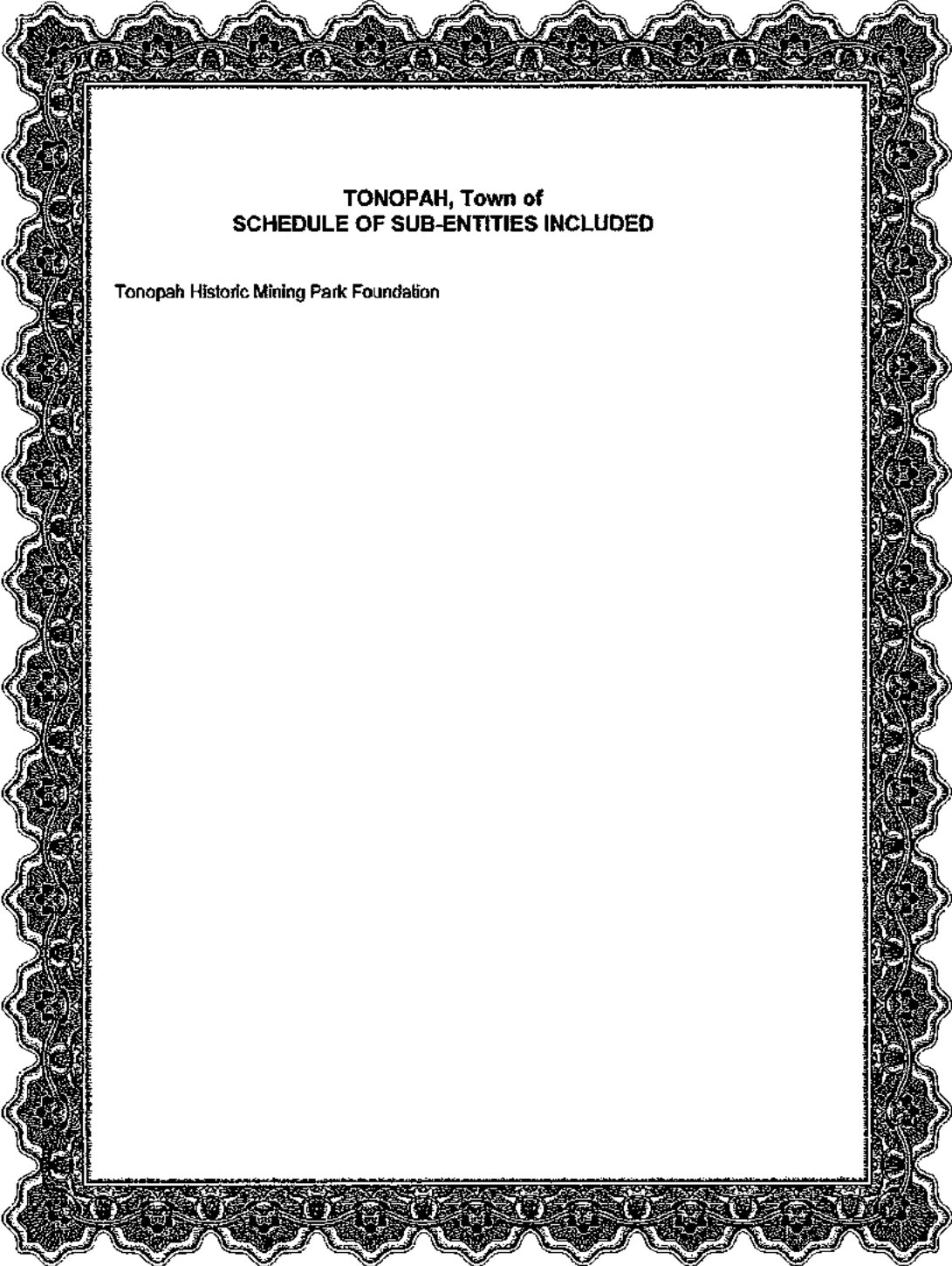


# GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION

### 3. An insurance policy for the building/facility (one copy only).



**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**



**TONOPAH, Town of  
SCHEDULE OF SUB-ENTITIES INCLUDED**

Tonopah Historic Mining Park Foundation

POOL - Town of Tonopah



**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**

**PUBLIC AGENCY COMPENSATION TRUST  
CERTIFICATE OF PARTICIPATION  
Issued to**

**Town of Tonopah**

The Public Agency Compensation Trust (hereinafter PACT) certifies that the above mentioned entity is a participating member of the PACT for the period beginning July 1, 2019 through June 30, 2020.

As a participating member, this entity is entitled to all the rights, privileges and protections and subject to all the duties and responsibilities under the Interlocal Cooperative Agreement, Bylaws and the Joint and Several Liability Agreement of PACT.

The following policies have been issued by PACT:


Public Agency Compensation Trust Coverage Form #PACT20192020

Limits of liability afforded to PACT members, subject to the application for coverage, are as follows:

Workers Compensation each accident or disease	\$ Statutory
Employers Liability each accident or disease	\$2,000,000

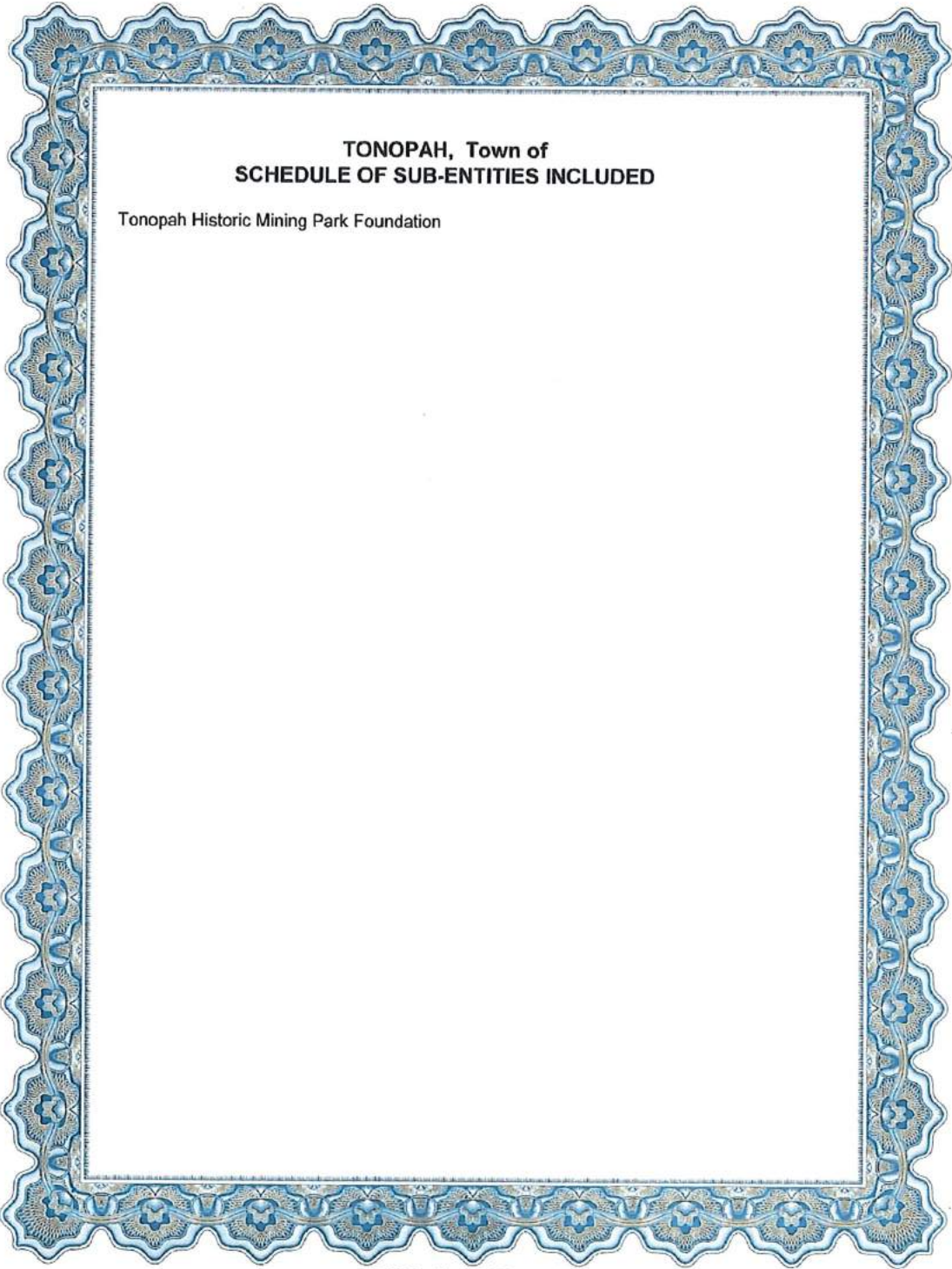
PACT is hereby responsible for processing claims and paying benefits under Chapters 616A, 616B, 616C, 616D and 617 of NRS for employees of members of this association injured in industrial accidents or contracting occupational diseases occurring on or after 12:01 A.M. (Pacific Standard Time) as of the effective date of this certificate.

This certificate is not a contract of insurance and does not bind the insurance companies named hereon or PACT as such. The coverages provided will be governed by the terms and conditions of the PACT Coverage Form and excess insurance policies and by the Interlocal Cooperative Agreement, Bylaws and Joint and Several Liability Agreement of PACT; and all claims, questions or disputes will be settled by reference to the same.

  
Wayne E. Carlson, MBA, CPCU, ARM  
Executive Director



**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**



**TONOPAH, Town of  
SCHEDULE OF SUB-ENTITIES INCLUDED**

Tonopah Historic Mining Park Foundation

PACT - Town of Tonopah

**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**

**4. A list of current board members for the organization (required).**

Ann Carpenter  
5445 Goldenrod Drive  
Reno, NV 89511  
ann.carpenter57@gmail.com

John Terras  
PO Box 30  
Tonopah, NV 89049  
jsterras@gmail.com

Theodore Schuff  
2712 Golfside Drive  
Las Vegas, NV 89134  
taykate@icloud.com

Douglas "Stretch" Baker  
P.O. Box 792  
Tonopah, NV 89049  
bakersacres99@hotmail.com

Don Southwick  
3368 Alpine Court  
Carson City, NV 89705  
don.southwick1@gmail.com

Stephen Tibbals  
PO Box 54  
Winnemucca, NV 89446  
stibbals@wmca.com

Neil Prens  
12900 Fieldcreek Lane  
Reno, NV 89511  
neil@mda.com

John Fickewirth  
51 Quail Hollow Drive  
Henderson, NV 89014  
john@fickewirth.com

Stanley Paher  
4135 Badger Circle  
Reno, NV 89519  
swpaher@gmail.com

Richard Reid  
3 Spring Creek Lane  
Spring Creek, NV 89815  
richardreid.geo@gmail.com

# GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION

## 5. Resumes (maximum two pages per resume) for all principal professionals involved in the planning, design and/or management of the proposed project (required).

**NATHAN EARL ROBISON, PE, WRS**  
President, Principal Engineer  
**Robison Engineering Company, Inc.**

846 Victorian Avenue, Suite 20, Sparks, Nevada 89431  
Phone: (775) 852-2251 x 700 – Fax: (775) 852-9736 – Mobile: (775) 240-7652  
[nathan@robisoneng.com](mailto:nathan@robisoneng.com)

### EDUCATION:

BS Geological Engineering, Mackay School of Mines, University of Nevada (1999)  
Graduate study in Mining Engineering, Mackay School of Mines (2000-2003)

### CERTIFICATIONS:

PE Civil, California	C 64888	PE Civil, Nevada	16055
PE Civil, Idaho	12330	PE Civil, Utah	8228504-2202
PE Civil, Washington	51271	PE Civil, Oregon	90658
PE Civil, New Jersey	24GE05168500	PE Civil, Colorado	PE.0050238
PE Civil, Hawaii	16669	PE Civil, New Mexico	23181
PE Civil, South Dakota	12734	PE Civil, Florida	81037
P.Eng, Alberta, CDN	241295	PE Civil, Texas	126563
		Water Rights Surveyor, NV	1213

### PERSONAL INFORMATION:

Born Salt Lake City, Utah, Nov. 30, 1974; Height 5 ft. 8 in.; Weight 190 lbs, ~ 8 minute mile  
Married to Paula LuAnn Robison and father to Rosemary, Ethan & Elsa.  
Not at all afraid to climb hills or dig holes.

### EMPLOYMENT HISTORY:

2003 - Now President, Principal Engineer - Robison Engineering Company, Inc.  
- Principal Civil PE, specializing in Mining and Mine Economics, and executive of rapidly innovating and excuse-free Consulting Engineering, Surveying, Aerial Mapping, Technology, and Scientific services firm.

2005 – “Hamlet” lead role for Nevada Shakespeare Festival, Reno & Virginia City, Nevada

1998 - 2003 Various Positions - University of Nevada, Reno  
- Graduate Research Assistant in industrial minerals mine planning and permitting  
- Teaching Assistant/Reviewer in thermodynamics, statics, and industrial efficiency  
- Internship with Southern California Earthquake Center

2000 - 2003 Associate Engineer - Brown and Caldwell, Reno, Nevada  
1999 - 2000 Associate Engineer - Sage Engineering, Reno, Nevada  
1997 - 1999 Field and Laboratory Technician, Draftsman - Kleinfelder Inc, Reno, Nevada  
1994 - 1998 Cook, Waiter, Accountant, Janitor – Pneumatic Diner, Reno, Nevada

### REFERENCES:

TJ Prendergast, PE – 775-852-2251 x 716 – [tj@robisoneng.com](mailto:tj@robisoneng.com)  
Terry Munson – 775-852-2251 x 708 – [terry@robisoneng.com](mailto:terry@robisoneng.com)



# GRANT APPLICATION FOR 2019-2020 TONOPAHO HISTORIC MINING PARK FOUNDATION



Robison Engineering Company, Inc.  
846 Victorian Avenue, Suite 20  
Sparks, Nevada, 89431  
775-852-2251 Office  
775-852-9736 Fax  
<https://www.robisoneng.com>



## GENERAL STATEMENT OF QUALIFICATIONS

February 2020

### COMPANY PROFILE

[Robison Engineering Company Inc.](#) is an 100% employee-owned, responsibility-driven, multidisciplinary and technologically savvy firm dedicated to directly and personally serving our clients. We are licensed in NV, CA, ID, UT, CO, WA, NM, HI, NJ, FL, SD, TX, SC and Alberta, Canada. The diverse Robison Engineering team thrives on the steep, remote, difficult and lonely.



UAS DATA – SMITH VALLEY, NV



ENTERPRISE DR. PARKING LOT, UNR

#### Civil and Structural Engineering

- Due diligence, scoping, water rights, land management and GIS
- Municipal site improvements, compliance, and renovation planning and permitting
- Complete site, grading and utility plans
- Hydrologic, hydraulic, and water system design
- [Construction](#) management, inspection, testing and permitting, as-built & contractor support
- [Structural](#) design including commercial, and industrial/mining buildings and foundation design
- Large scale steel structures
- Residential structural design
- Welding training, certification, and inspection

#### Environmental Consulting Services

- Phase I, II, & III [Environmental](#) ESAs
- NEPA, BLM, & USFS permitting
- Weed control and revegetation
- Stormwater, SWPPP, QSP / QSD support
- Public Water System (PWS) Management

#### Land Surveying, Photogrammetry & UAS

- Survey & GIS Coordination with environmental, planning and engineering.
- Topographic and ALTA/ACSM [Land Surveying](#)
- Construction layout staking & certification
- [Water Rights Surveying](#)
- Record of Survey, Parcel Maps & Legals
- FAA-licensed Commercial Drone Pilots
- [Unmanned Aerial Survey](#) (DBA Robison UAS) – Regional leader in Unmanned Aerial Surveying (UAS) with our Sensefly eBee fixed-wing and DJI quadcopter unmanned aerial vehicles, we provide precise 3d data, all in state plane coordinates accurately determined by a Land Surveyor, refinable to 0.1-foot resolution orthophotos and ½-foot contours depending on conditions

#### IT Support (dba [Sierra Nevada Systems](#))

- Custom database programming & training
- GIS & supply chain integration
- Control Systems design & services
- Level 2/Level 3 network planning & support

## **GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION**

### **6. A copy of the organization's long-range plan including information on how frequently the plan is updated (required).**

The Tonopah Historic Mining Park Foundation's long-term goals are to first finish with the rehabilitation of the Silver Top Mine complex and make it accessible to the public. It is the only historic mine in the state of Nevada that has all of its original components still in existence: the hoist house, headframe, ore sorting house, and Tonopah & Goldfield railroad bed. Recreating the trestle, or tramway, will only increase its historical value in educating the public about Nevada's historic mines.

Following that, the Foundation intends to concentrate on the Desert Queen mine, specifically its headframe and hoist house. The three existing mines at the Park (the Mizpah, Silver Top, and Desert Queen) are the major historical attractions at the Mining Park, and historically significant piece of Nevada's history. However, exposure to the harsh desert climate, winds, cloud bursts, and the hot dry sun can cause the status of outdoor landmarks to rapidly change from a future project to a present project, which is exactly why our priorities must be reviewed each year.

The Foundation also has the goal of continuing to document and index all of the smaller sized artifacts at the Park. Properly cataloging and indexing these items is another major goal that will never be abandoned. A museum is nothing without its collections, and its collections are nothing if people cannot interact with them and learn from them. While these plans may sometimes be delayed, or possibly take years to complete, the Foundation will always strive to complete these goals.

### **9. A list of the organization's activities for the past fiscal year (ex. July 1, 2018 – June 30, 2019) or calendar year, if applicable.**

- Rehabilitation of the Silver Top Mine headframe, orehouse, and the tramway connecting the headframe to the orehouse.
- Transformation of THMPF indoor displays to high quality museum displays with educational signage.
- Reorganization of future THMPF research library made available to the public.
- THMPF runs a small gift shop inside the Visitor Center at the THMP which sells educational items and provides the visitor with a small momentum of their visit to the Park.
- Outdoor interpretive signage is still a focus of THMPF and will continue to be addressed in the future.
- Creation of new THMP brochures to be distributed in areas outside of our 100-mile radius.
- Creation of bi-annual publication (digital & hard copy) for membership and tourism.

**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**

**PART III: BUDGET**

- A. One copy of your most recent audit report (include with original, signed grant application).**

The Tonopah Historic Mining Park Foundation does not have a recent audit report, as we are a small nonprofit, with usually less than ten expenses per month. Our last CCCHP grant we issued a very small amount of checks, so the accounting for it was not complicated. Finally, we are on a very limited budget for everything we do, which includes the high costs that an audit would require. Attached is our last financial statement in its place.



**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**

**Tonopah Historic Mining Park Foundation  
STATEMENT OF ACTIVITIES - JAN 2020 revised**

<b>REVENUE</b>	<b>1 Month Ending</b>	<b>12 Months Ending</b>
Donations General	3,266.58	3,266.58
Donations Headframe Restoration bricks	600.00	600.00
Donations Headframe Restoration coins	0.00	0.00
Donations Headframe Restoration donations	0.00	0.00
Donations Headframe Restoration topo maps	0.00	0.00
Donations Memberships	675.00	675.00
Donations - Memorial	0.00	0.00
Donations Tailings	250.00	250.00
Gift Shop Sales	530.00	530.00
Grants: Headframe Restoration	0.00	0.00
Grants: NV Magazine Ads	0.00	0.00
Grants: THMP Brochures	0.00	0.00
Travel	0.00	0.00
Blacksmith Program	20.00	20.00
Town of Tonopah Gate Fees, Event Fees, etc.	619.00	619.00
<b>TOTAL REVENUE</b>	<b>\$ 5,960.58</b>	<b>\$ 5,960.58</b>

<b>** EXPENSE</b>	<b>1 Month Ending</b>	<b>12 Months Ending</b>
Administrative Assistant	2,200.00	2,200.00
Banking - checking account fees	2.50	2.50
Banking - merchant fees	82.29	82.29
CPA - Dan McArthur	0.00	0.00
Displays	0.00	0.00
Gift Shop expense	554.61	554.61
Grants: Headframe Restoration	52,212.00	52,212.00
Headframe Restoration - brick orders	0.00	0.00
Legal & Professional Fees	0.00	0.00
NNV SME calendar	0.00	0.00
Office Expense	138.09	138.09
PayPal Fees - brick orders	0.00	0.00
PayPal Fees - donation (general)	0.00	0.00
PayPal Fees - donation (HEADFRAME)	0.00	0.00
PayPal Fees - membership	1.07	1.07
Postage	93.90	93.90
Printing Fees	0.00	0.00
Publication fees - Tailings	0.00	0.00
Silver Top Photo Books	1,260.98	1,260.98
Subscriptions	0.00	0.00
Travel	0.00	0.00
Blacksmith expense	0.00	0.00
Town of Tonopah Gate Fees, Event Fees, etc.	358.00	358.00
<b>TOTAL EXPENSES</b>	<b>\$ 56,903.44</b>	<b>\$ 56,903.44</b>

<b>TOTAL</b>	<b>1 Month Ending</b>	<b>12 Months Ending</b>
Total Revenue	5,960.58	5,960.58
Total Expenses	(56,903.44)	(56,903.44)
<b>Change in Net Assets</b>	<b>\$ (50,942.86)</b>	<b>\$ (50,942.86)</b>

# GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION

## Tonopah Historic Mining Park Foundation STATEMENT OF FINANCIAL POSITION - JAN 2020 revised

ASSETS	
<b>CURRENT ASSETS</b>	
Checking 7044 - Main Account	114,747.05
Checking 0543 - Grants Account	3,336.43
PayPal Account	0.00
Cash Register	200.00
<b>TOTAL CURRENT ASSETS</b>	<b>\$ 118,283.48</b>

NONCASH ASSETS	
Gift Shop Inventory	7,169.35
<b>TOTAL NONCASH ASSETS</b>	<b>\$ 7,169.35</b>

LIABILITIES	
<b>CURRENT LIABILITIES</b>	
	(7,700.00)
<b>TOTAL LIABILITIES</b>	<b>\$ (7,700.00)</b>

NET ASSETS	
<b>CURRENT NET ASSETS</b>	
Donor Restricted	6,997.41
Unrestricted	111,286.07
Gift Shop Inventory	7,169.35
<b>TOTAL LIABILITIES</b>	<b>\$ (7,700.00)</b>
<b>TOTAL LIABILITIES &amp; NET ASSETS &amp; NONCASH ASSETS</b>	<b>\$ 117,752.83</b>

Donor Restricted consists of:	
DAR Grant In-Park Signage	3,336.43
Desert Queen Restoration	275.00
Silver Top Orehouse & Tramway	940.00
Blacksmithing Program	2,445.98
<b>Total Donor Restricted Funds</b>	<b>\$ 6,997.41</b>

\*\*PLEASE NOTE: OUR EXPENSES ARE USUALLY FOR THE PREVIOUS MONTH. SINCE WE USE THE CASH METHOD OF REPORTING WITH THE IRS, THIS IS HOW OUR FINANCIALS MUST BE PRESENTED. SORRY FOR ANY CONFUSION THIS MAY CAUSE.\*\*

**FUNDS AVAILABLE in main checking account**

Checking Account	114,747.05
Minus restricted funds in checking account	(3,660.98)
Minus total liabilities (Feb. bills)	(7,700.00)
<b>Current Funds available</b>	<b>\$ 103,386.07</b>

*This number does not include estimated income for Feb.*

	\$ 205,577.58
<b>total Silver Top HEADFRAME Rehabilitation project costs</b>	<b>\$ 52,212.00</b>
<b>for calendar year 2019 and 2020</b>	<b>\$ 257,789.58</b>

**GRANT APPLICATION FOR 2019-2020**  
**TONOPAH HISTORIC MINING PARK FOUNDATION**

- B. Insurance policy for the building/facility (one copy only to be included with original, signed grant application).**  
Attached in Part II of this grant application, page 8.
  
- C. Resumes (two pages maximum per resume) for all principal professionals involved in the planning, design and/or management of the proposed project.**  
Attached in Part II of this grant application, pages 10-11.



# GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION

Applicant: Tonopah Historic Mining Park Foundation

## 1. Personnel:

	Position Title	Hours	Hourly Rate (HR)	✓ if HR includes Fringe Benefits	% of HR that is a fringe benefit	Amount of fringe benefit	Total Amt	State Share	Non-State Share
a.	Admin.	240	29.43				7,063.20	0	7,063.20
b.	Tour Guide	160	16.42				5,254.40	0	5,254.40
c.	Tour Guide	80	11.00				880.00	0	880.00
d.	Maintenance	80	19.23				1,538.40	0	1,538.40
e.	Maintenance	80	22.60				1,808.00	0	1,808.00
f.									
g.									
h.									
i.									
j.									
<b>Sub-total:</b>							<b>\$ 16,543.00</b>	<b>\$ 0</b>	<b>\$ 16,543.00</b>

## 2. Travel: (see GSA rates in the application form)

	Rate	Miles/# of days	Total Amount	State Share	Non-State Share
a.	Mileage				
	1. Person #1-				
	2. Person #2-				
b.	Per Diem Reimbursements (Breakfast)				
	Per Diem Reimbursements (Lunch)				
	Per Diem Reimbursements (Dinner)				
c.	Transportation costs (parking fees, taxi, etc.)				
d.	Lodging				
	1. Weeknight (Sun-Th)				
	2. Weekend (Fri-Sat only)				
e.	Other:				
f.	Other:				
<b>Sub-total:</b>			<b>\$</b>	<b>\$</b>	<b>\$</b>

# GRANT APPLICATION FOR 2019-2020 TONOPAH HISTORIC MINING PARK FOUNDATION

Applicant: Tonopah Historic Mining Park Foundation

### 3. Contractual Services: (Attach itemized lists or contractor quotes showing the breakdown of materials and labor costs for all proposed work items)

	Contractual Service	Total Amount	State Share	Non-State Share
a.	Simerson Construction Quote (Desert Queen Project) See attached.	\$180,000.00	\$130,000.00	50,000.00
b.	Simerson Construction Quote (Silver Top Project) See attached.	135,000.00	115,000.00	25,000.00
c.	Robison Engineering Quote (Desert Queen Project) See attached.	9,000	9,000	
d.	Robinson Engineering Quote (Silver Top project) See attached.	6,715.40	6,715.40	
e.				
f.				
	<b>Sub-total:</b>	<b>\$ 330,715.40</b>	<b>\$ \$ 255,715.40</b>	<b>\$75,000.00</b>

### 4. Operating: List estimated operating expenses relating to the proposed project.

	# of items	Rate per item	Flat Rate	Amount	State Share	Non-State Share
a.	Photocopying					
b.	Film and Processing					
c.	Maps					
d.	Postage					
e.	Telephone					
f.	Utilities					
g.	Supplies (specify):					
h.	Other (specify):					
i.	Other (specify):					
			<b>Sub-total:</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>

**GRANT APPLICATION FOR 2019-2020  
TONOPAH HISTORIC MINING PARK FOUNDATION**

**5. Other (please specify or attach detailed budget):**

In Kind Contributions:		Rate	Amount	State Share	Non-State Share
a.	Donated Mine rails		\$10,000.00	0	\$ 10,000.00
b.	Dirt work, equipment, setting up/fencing off area and adding barricades for visitor safety.		\$20,000.00		\$ 20,000.00
c.	Foundation Board members (9 total) oversight, organization, inspection, coordination, etc.)		\$5,000.00		\$5,000.00
d.	Donated Mucker/ore carts		\$15,000.00		\$15,000.00
e.	Nathan Robison, Engineer		\$18,358.00		\$18,358.00
f.					
g.					
h.					
<b>Sub-total:</b>			<b>\$ 68,358.00</b>	<b>\$</b>	<b>\$ 68,358.00</b>

**6. Section #1- 6 Subtotals:**

	Amounts	State Share	Non-State Share
1. Personnel	\$ 16,543.000	\$ 0	\$ 16,543.00
2. Travel	\$	\$	\$
3. Contractual Services	\$ 330,715.40	\$ 255,715.40	\$ 75,000.00
4. Operating	\$	\$	\$
5. Other	\$ 68,358.00	\$	\$ 68,358.00
<b>Sub-total:</b>	<b>\$ 415,616.40</b>	<b>\$ 255,715.40</b>	<b>\$ 159,901.00</b>

- 7. Requested State Share Total
- 8. Potential Non-State Share
- 9. Actual Non-State Share
- 10. Proposed Project Costs

<b>Subtotal:</b>	<b>\$ 255,715.40</b>
<b>Subtotal:</b>	<b>\$ 159,901.00</b>
<b>Subtotal:</b>	<b>\$ 159,901.00</b>
<b>Grand Total:</b>	<b>\$ 415,616.40</b>



Robison Engineering Company, Inc  
 846 Victorian Ave, Suite #20  
 Sparks, NV 89431-5099  
 (775) 852-2251  
 accounting@robisoneng.com  
 www.robisoneng.com

# Proposal

**ADDRESS**

Tonopah Historic Mining Park  
 PO Box 965  
 Tonopah, NV 89049

**PROPOSAL # 4855**

**DATE 2019/11/09**

PROJECT #	PROPOSAL #	PROJECT TITLE
1-888-01.003	4855	Silver Top Griz Etc

ACTIVITY	QTY	RATE	AMOUNT
<b>Services:T&amp;M</b> Note: this is a Time and Materials Proposal - invoices will reflect actual efforts and expenses of Consultant. Total cost will not exceed this proposal amount unless the nature of the project, scope of work, or additional Client requests exceed the budgeted effort. Any such exceedance will be subject to Client written approval after this proposal.  Remainder of 2019 agreement for Silver Top Headframe restoration. Includes total hourly value of professional time and pro-bono. Task 1: Site assessment and general arrangement for restoring Silver Top two-level trestle structures and associated buildings. Task 2: General site engineering and mapping support as requested by Client.	1	15,308.00	15,308.00
<b>Services:Administration</b> Project meetings, accounting, and management.	15,308	0.05	765.40
<b>Pro Bono</b> Discount category for engineering services provided without charge.	-1	9,358.00	-9,358.00
<b>General:Notes</b> No travel costs will be charged.	1	0.00	0.00
<b>General:Contact</b> Contact Nathan Robison, PE at 775-852-2251 x 700 or nathan@robisoneng.com with questions.	1	0.00	0.00

This Estimate constitutes a contract for professional services. If acceptable, please sign below and return to accounting@robisoneng.com, text a photo to 775-240-7652, or fax to 775-852-9736. Our standard payment terms are Net 15 Days from the date of invoice, except for established corporate clients.

**TOTAL**

**\$6,715.40**

Accepted By

W.Wahl

Accepted Date

2019/09/12



Date: November 15, 2019

Attn: William Wahl  
Tonopah Historic Mining Park Foundation  
110 Burro Avenue  
Tonopah, NV 89409

Job: **Silver Top Grizzly**

*We are pleased to offer the following pre-design budget for your consideration.*

**DEMO, FURNISH, AND INSTALL**

- Demo existing trestle.
- Install owner supplied railroad track and owner supplied spikes.
- Install 205 ft. of new trestle with concrete piers.
- Stabilize Grizzly house as needed per engineer instructions (not yet provided).
- Treat exterior wood structure with linseed oil.

**FOR THE TOTAL SUM OF:**

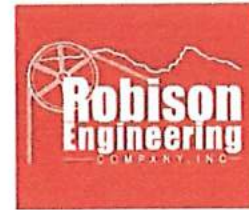
**\$135,000.00**

The pre-design budget assumes engineering costs are covered by the owner. This budget assumes this is a non-prevailing wage project with no performance or material bonds required. Depending on the final design the scope of work may vary to accommodate available funds.

Respectfully,  
Bill Krause



Simerson Construction



Tonopah Historic Mining Park Foundation  
110 Burro Avenue  
Tonopah, NV 89049

Date: 2019-11-22

**SUBJECT: Silver Top Mine – Grizzly Building and Trestles  
Restoration Workflow**

Dear Bill and Co,

Following successful restoration, including a replacement foundation, for the Silver Top Headframe in 2019, you requested that the contractor and Robison Engineering consider the actions necessary to preserve and restore other elements of the Tonopah Historic Mining Park.

The subject Grizzly Building is located east of the headframe, and according to historic photographs, served to sort ore produced from the Silver Top shaft by rail car dumping at an upper "trestle" track level, through the "grizzly" sorting screen, which I expect was used to separate ore into two size fractions; one requiring crushing (and captured on the lower "trestle" rail) and the other suitable for delivery to a mill.

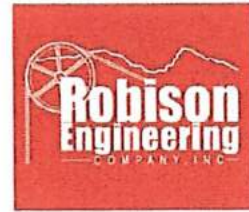
Since the ore handling process has historic value, and the facilities were interesting and attractive in their own right, I agree that they should be preserved. The historically sensitive restoration of the headframe demonstrates the feasibility.

This narrative workflow is adapted from the work plan develop for the Silver Top Headframe.

- 1) The building is founded on timber piles which appear to be stable, but are in contact with earth and may be subject to deterioration. Our approach to restoring the building is as follows:
  - a. Inspect the grizzly building for roof or wall leaks, and coordinate repair of any waterproofing as necessary.
  - b. Visually inspect and measure each frame member, and prepare "as built" structural framing plans.
  - c. Identify members in need of replacement or other repair, and indicate these on the plan.
  - d. Develop a method of replacing the underground portion of timber piles with concrete piers, probably cylindrical plain concrete columns.
  - e. Prepare a plan for safe public access – a wooden walkway with handrails through portions of the building which do not present a risk to visitors.
  - f. Coordinate with the contractor, Simerson Construction, to value-engineer these plans, if necessary, to conform to an annual budget of less than \$100,000, considering the Trestle discussed below, and other Park priorities.
- 2) The trestle, constructed of smaller timbers, has partially collapsed and needs to be replaced completely. Our approach to restoring this feature is as follows:
  - a. Prepare a Sketch-Up 3d rendering of the ca. 1914 arrangement, to preview what construction would achieve, relative to the Grizzly building, headframe, shaft and

Robison Engineering Company, Inc  
846 Victorian Avenue, Suite 20  
Sparks, NV US

[www.robisoneng.com](http://www.robisoneng.com)



- surrounding topography.
- b. Develop a simple braced "A" frame and track support to restore the two-level trestle to its historic configuration.
  - c. Prepare foundation and framing plans for aged-wood new construction on cylindrical pier footings (see replaced timbers on the Silver Top Headrame which were treated to appear aged and reduce the visual impact of new wood next to old). Salvage rails from this and other supplies of the Park.
  - d. Coordinate with the contractor, Simerson Construction, to value-engineer these plans, if necessary, to conform to an annual budget of less than \$100,000, considering the Trestle discussed below, and other Park priorities.
  - e. Coordinate with the Park to install static or movable ore carts, maintenance access, and other features to optimize the feature.

RENG will act as an inspector and ongoing technical advisor to the Park as needed, and I will assume responsibility as engineer of record for the restoration.

Additional considerations and complications are expected when dealing with a historical fixture and its many stakeholders, however I am confident in the core restoration team and the structure's competence to be restored in the manner described herein.

Please do not hesitate to contact me if you have questions or would like additional information.

Sincerely,  
ROBISON ENGINEERING COMPANY

A handwritten signature in black ink, appearing to read "Nathan Earl Robison", is written over the company name.

Nathan Earl Robison, PE  
775-852-2251 x 700  
[nathan@robisoneng.com](mailto:nathan@robisoneng.com)

Attachments:

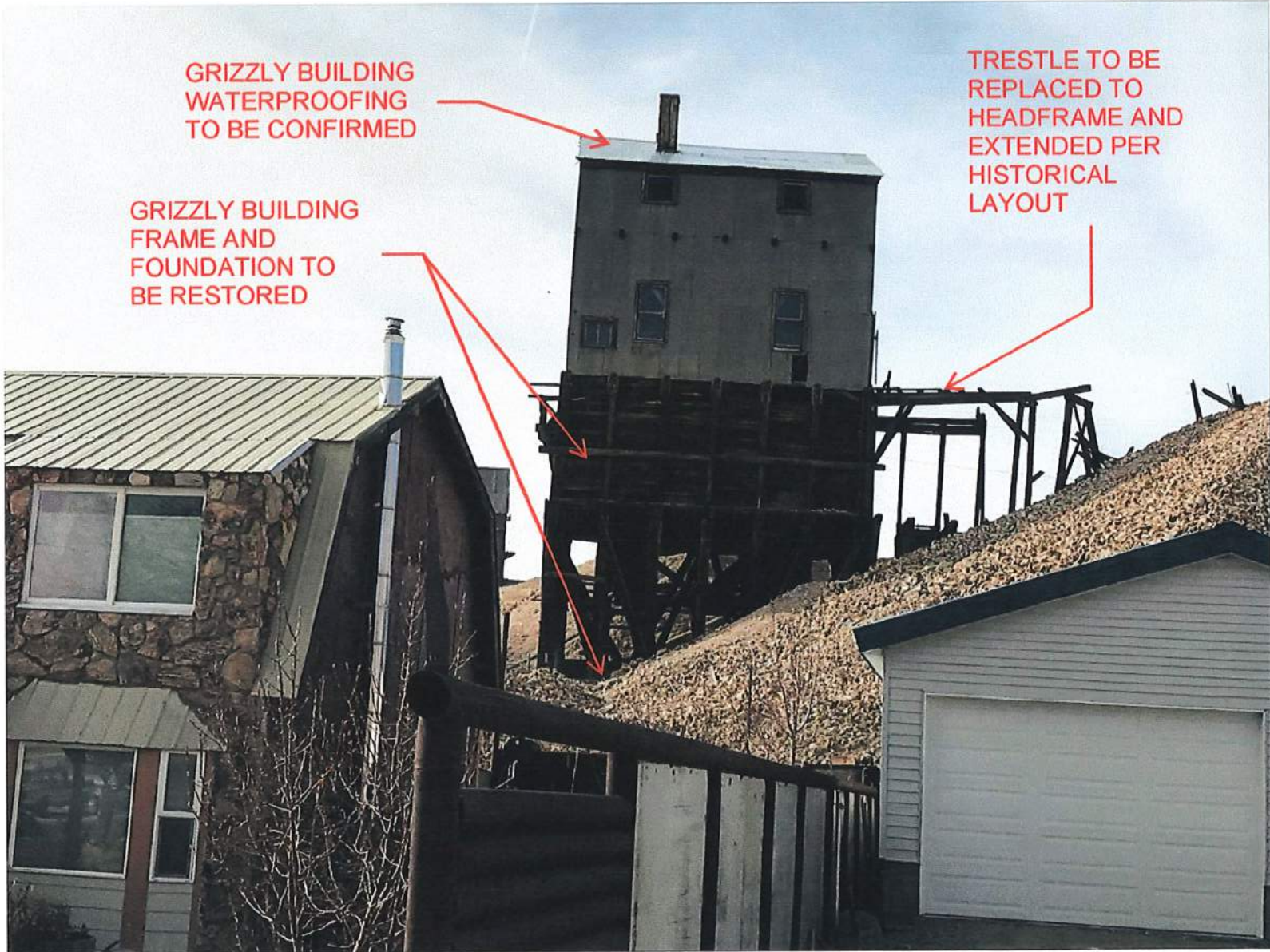
- 1) Annotated photograph



GRIZZLY BUILDING  
WATERPROOFING  
TO BE CONFIRMED

GRIZZLY BUILDING  
FRAME AND  
FOUNDATION  
TO BE RESTORED

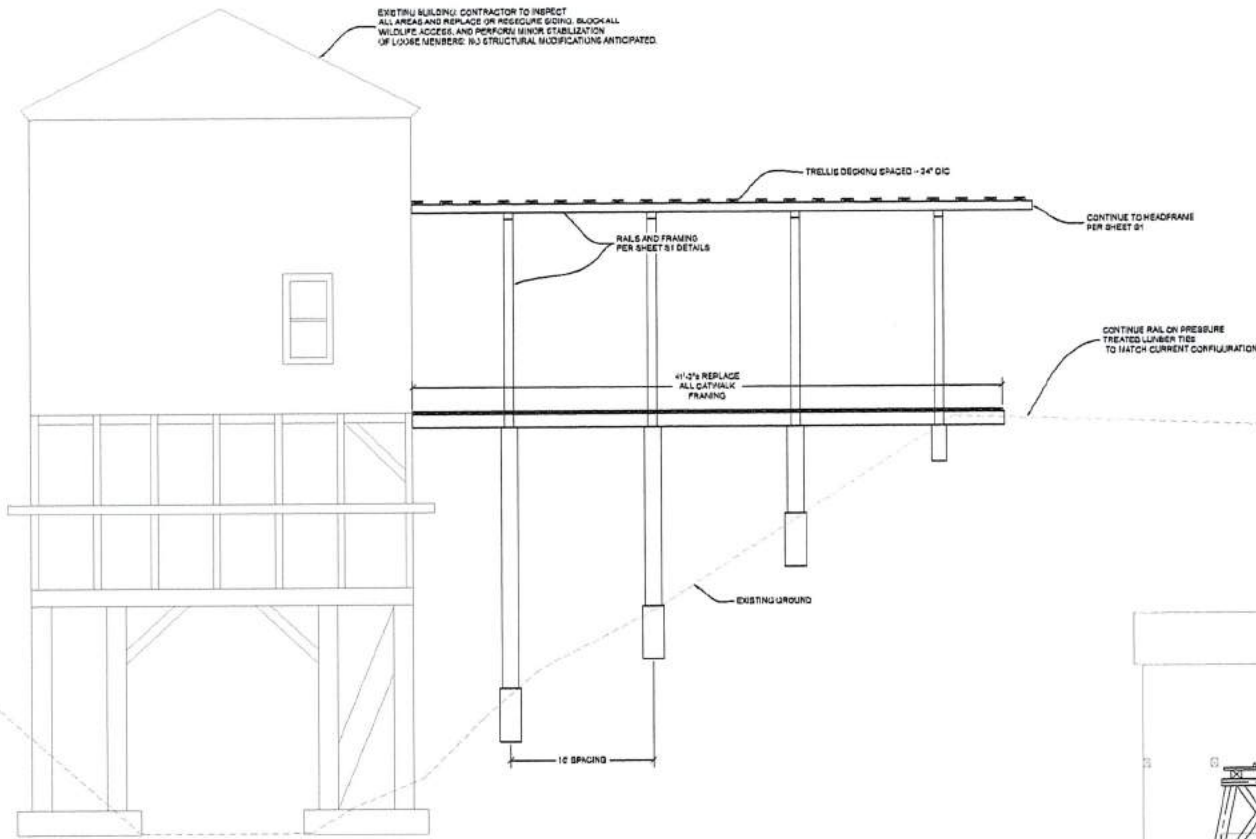
TRESTLE TO BE  
REPLACED TO  
HEADFRAME AND  
EXTENDED PER  
HISTORICAL  
LAYOUT





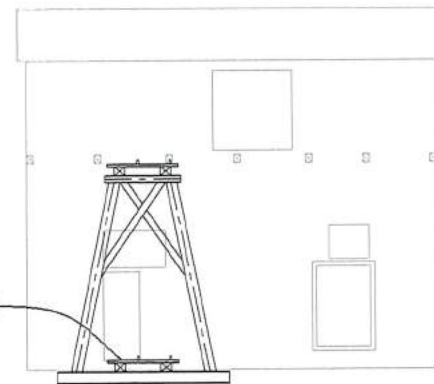






SILVER TOP GRIZZLY NORTH ELEVATION (SOUTH ELEVATION SIMILAR)  
SCALE: 1"=4'-0"

NEW FRAMED ACCESS  
CATWALK AND TRELLIS  
SEE SHEET S1



SILVER TOP GRIZZLY WEST ELEVATION (EAST ELEVATION SIMILAR)  
SCALE: 1"=4'-0"

TOWN OF HIST. MINING PARK  
SILVER TOP GRIZZLY RESTORATION  
EXISTING STRUCTURAL ELEVATIONS  
ALLEGANT - EAST TOWN MOUTH  
PROJECT NO. 15-000000

PREPARED FOR  
TOWN OF HIST. MINING PARK  
100 S. 2ND ST. S.  
DULUTH, MN 55812  
DATE: 10/15/2015

**PRELIMINARY**  
**NOT FOR**  
**CONSTRUCTION**

1	REVISIONS	DATE	BY	CHKD	APP'D
2					
3					
4					
5					
6					
7					
8					
9					
10					

1	DESCRIPTION	DATE	BY	CHKD	APP'D
2					
3					
4					
5					
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7					
8					
9					
10					

REVISIONS  
SHEET  
**S2**



Date: November 15, 2019

Attn: William Wahl  
Tonopah Historic Mining Park Foundation  
110 Burro Avenue  
Tonopah, NV 89409

Job: **Desert Queen**

*We are pleased to offer the following pre-design budget for your consideration.*

**DEMO, FURNISH, AND INSTALL**

- Replace missing corrugated siding on hoist house.
- Replace broken glass in windows.
- Replace missing and loose beams in head frame.
- Replace tensioning rods.
- Support head frame with steel beams and jacks.
- Cut head frame loose from foundation.
- Remove deteriorated concrete footings.
- Excavate and pour new footings.
- Install knife plates on beams and reattach to new foundation.
- Treat entire structure with linseed oil.

**FOR THE TOTAL SUM OF:**

**\$180,000.00**

The pre-design budget assumes engineering costs are covered by the owner. This budget assumes this is a non-prevailing wage project with no performance or material bonds required. Depending on the final design the scope of work may vary to accommodate available funds.

Respectfully,  
Bill Krause



Simerson Construction





Robison Engineering Company, Inc  
 846 Victorian Ave, Suite #20  
 Sparks, NV 89431-5099  
 (775) 852-2251  
 accounting@robisoneng.com  
 www.robisoneng.com

# Proposal

**ADDRESS**

Tonopah Historic Mining Park  
 PO Box 965  
 Tonopah, NV 89049

**PROPOSAL # 4948**

**DATE 2019/12/23**

PROJECT #	PROPOSAL #	PROJECT TITLE
1-888-01.004	4948	Desert Queen Restoration

ACTIVITY	QTY	RATE	AMOUNT
<b>Services:T&amp;M</b> Note: this is a Time and Materials Proposal - invoices will reflect actual efforts and expenses of Consultant. Total cost will not exceed this proposal amount unless the nature of the project, scope of work, or additional Client requests exceed the budgeted effort. Any such exceedance will be subject to Client written approval after this proposal.  New proposal for engineering and surveying support to restore the subject headframe. Includes total hourly value of professional time and pro-bono. Task 1: Site assessment, general arrangement, and engineered details for restoring the Desert Queen headframe structure and associated hoist house building. Task 2: General site engineering and mapping support as requested by Client.	1	18,000.00	18,000.00
<b>Pro Bono</b> Discount category for engineering services provided without charge.	-0.50	18,000.00	-9,000.00
<b>General:Notes</b> No travel costs will be charged.	1	0.00	0.00
<b>General:Contact</b> Contact Nathan Robison, PE at 775-852-2251 x 700 or nathan@robisoneng.com with questions.	1	0.00	0.00

This Estimate constitutes a contract for professional services. If acceptable, please sign below and return to accounting@robisoneng.com, text a photo to 775-240-7652, or fax to 775-852-9736. Our standard payment terms are Net 15 Days from the date of invoice, except for established corporate clients.

**TOTAL**

**\$9,000.00**

Accepted By

Accepted Date

# TONOPAH HISTORIC MINING PARK DESERT QUEEN HEADFRAME RESTORATION

SHEET INDEX

71	TITLE SHEET AND GENERAL NOTES
61	SITE PLAN, FOUNDATION PLAN & DETAILS
62	STRUCTURAL ELEVATIONS: EAST AND NORTH
63	STRUCTURAL ELEVATIONS: WEST AND SOUTH

1	JURISDICTION	RYE COUNTY, NV
2	BUILDING CODE	2708-IBC
3	PROJECT DESCRIPTION	SILVERTOP HEADFRAME REPAIR
4	GRANTY LOADING	
A	DEAD LOAD, THREE STRUCTURE	54# WEIGHT UNIFORM
B	DEAD LOAD, ROOF	N/A
C	LIVE LOAD, FLOOR	N/A
D	LIVE LOAD, ROOF	N/A
E	GROUND SHOCK LOAD	0
F	BUILDING ELEVATION	8160 FEET
5	LATERAL LOADING	
A	SEISMIC	
1	RISK CLASS	0
2	IMPORTANCE FACTOR, I	1.00
3	R <sub>s</sub> RESPONSE, S <sub>s</sub>	0.4
4	SOIL RESPONSE, S <sub>1</sub>	0.75
5	MAX. 0.2% SPECTRAL ACCEL. (SD)	0.272 G
6	MAX. 1.0% SPECTRAL ACCEL. (SD)	2.872 G
7	SEISMIC DESIGN CATEGORY (SD)	0
8	BUILDING TYPE - THREE FRAME - NONBUILDING	
9	SYSTEM OVERSTRESS FACTOR, W <sub>1</sub>	2.0
10	RESPONSE MODIF. COEFF. R	1.00
11	DESIGN BASE SHEAR, E	0.458 G
B	WIND	
1	EXPOSURE	C
2	BASE WIND SPEED, V	80 MPH
3	WIND DIRECTION COEFF. K <sub>d</sub>	1.0
4	IMPORTANCE FACTOR, I <sub>w</sub>	1.0
5	WIND EXPOSURE COEFF. K <sub>e</sub>	0.85
6	WIND PRESSURE, P <sub>s</sub>	21.00 PSF
7	SOIL CLASSIFICATION	CL
8	PROFIT DEPTH	24 INCHES
9	BEARING CAPACITY	1000 PSF
10	LATERAL RESISTANCE	100 PSF
11	ALLOWABLE LATERAL BRACING	100 PER FT

## LAND INFORMATION

COUNTY: RYE COUNTY  
ASSESSOR'S PARCELS: 045-010-2  
DESCRIPTION: CONSOLIDATED PROPERTIES OF THE TONOPAH HISTORIC MINING PARK

## PROJECT AUTHORITY

**OWNER**  
TONOPAH HIST. MINING MUSEUM  
110 BURNS AVENUE  
TONOPAH, NV 89049  
(775) 462-4274

**CIVIL ENGINEER**  
ROBISON ENGINEERING COMPANY, INC  
NATHAN EARL ROBISON PE  
840 JONATHAN AVE. SUITE 20  
SPARKS, NV 89438  
(775) 822-2221  
1752 BEASLEY FAX

## NOTES

### GENERAL NOTES

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES AND ARE BELIEVED TO BE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, CITY ORDINANCES, AND COUNTY STANDARDS. IN THE EVENT OF A CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND CITY STANDARDS PROMPTLY NOTIFY ENGINEER. THE COUNTY STANDARDS SHALL APPLY IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. CONTRACTOR ASSUMES FULL AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

- IF THE CONTRACTOR OBSERVES ANY CONDITION ON THE SITE WHICH CONFLICTS WITH THE INFORMATION SHOWN HEREON, THEY SHALL CONTACT ROBISON ENGINEERING AT 775-822-2221 FOR RESOLUTION.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER. IF THE INSPECTOR OR SUBCONTRACTORS OBSERVE CONSTRUCTION MATERIALLY DEVIATING FROM THESE PLANS, THEY SHALL NOTIFY THE ENGINEER AT 775-822-2221 OR STRUCTURAL@ROBISONENGINEERING.COM FOR RESOLUTION. THE OWNER SHALL BE RESPONSIBLE FOR THE CURE IN TIME AND MATERIALS TO CONTRACTOR, ENGINEER AND ENGINEER FOR SUCH DEVIATION.
- OBTAIN LATEST ELECTRONIC FILE FROM ROBISON ENGINEERING COMPANY PRIOR TO STARTING CONSTRUCTION.
- NO INFORMATION HEREON SHALL BE CONSTRUED TO REPRESENT A FORMAL SURVEY OF THE SUBJECT PROPERTY OR LANDS. MAPPING AND DESIGN ARE INTENDED FOR ENGINEERING AND CONSTRUCTION USE ONLY AND REPRESENT NO OPINION AS TO PRIVATE OR PUBLIC LAND BOUNDARIES.

COORDINATION: IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL PUBLIC AGENCIES AND TO BE AWARE OF THEIR PERMITTING, INSPECTION AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN PERMITS FOR RIGHT-OF-WAY OCCUPANCY, TEMPORARY AND PERMANENT UTILITY USE AND CONNECTIONS, AND ALL OTHER PERMITS, AUTHORIZATIONS, FEES, AND COORDINATION WITH PRIVATE AND PUBLIC AGENCIES AND UTILITY PROVIDERS.

- CLEANING OF THE PROJECT: AT THE COMPLETION OF CONTRACTED OR SUBCONTRACTED WORK THE CONTRACTOR SHALL THOROUGHLY CLEAN THE PROJECT VULNERABLE AREAS, REMOVING ALL RUBBER, SOLAR AND OTHERS PRODUCED BY THEIR WORK, EMPLOYEES, OR SUBCONTRACTORS. ALL SUCH MATERIAL SHALL BE PROPERLY RECYCLED, WHERE FEASIBLE, OR DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS AND POINTS OF CONNECTIONS WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

### MISCELLANEOUS NOTES

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY PRECAUTIONS, COMPLIANCE WITH LOCAL, STATE AND FEDERAL CODES, SAFETY DEPENDENT LOADS EXCEPT WHERE SPECIAL CONDITION OR BURCHARGE LOADS ARE INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, SCHEDULING, AND TEMPORARY BRACING OR SITE CONTROL TO ASSURE STABILITY DURING CONSTRUCTION. ANY STRUCTURAL MATERIALS DAMAGED BY ELEMENTS OR TEMPORARY BRACING FAILURE DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE LOCAL JURISDICTIONS ADOPTED OR PROMULGATED CODE. SPECIAL INSPECTION REQUIREMENTS SHALL BE DEVELOPED IN COORDINATION WITH THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT. SEE TABLE THIS SHEET.

### PROJECT NOTES

- ALL CONSTRUCTION NOT OTHERWISE DETAILED OR SPECIFIED SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ADOPTED BY THE LOCAL JURISDICTION.
- ALL DIMENSIONS ARE FROM FACE CONCRETE OR OTHER PERMANENT FEATURE IN THE DIRECTION OF THE DIMENSION SHOWN.
- IT IS THE INTENT OF THESE SPECIFICATIONS AND IMPROVEMENT PLANS THAT THE WORK REFERENCED UNDER THIS CONTRACT SHALL RESULT IN A COMPLETE OPERATING SYSTEM IN SATISFACTORY WORKING CONDITION WITH RESPECT TO THE FUNCTIONAL PURPOSES OF THE INSTALLATION. IF THERE ARE ANY QUESTIONS REGARDING THE STATUS OR IMPLIED MEANING OF THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR RESOLUTION.

SUBMITTALS: INCLUDING SHOP DRAWINGS, MANUFACTURER'S DATA SHEETS, MATERIAL AND COLOR SAMPLES, AND DELIVERED MATERIAL OR PRODUCTS (ROUTING, ETC.) WITHOUT EXCEPTION, SHALL BE OFFERED FOR REVIEW AND APPROVAL TO OWNER PRIOR TO THEIR INCORPORATION INTO THE PROJECT. WHERE QUANTITATIVE JUDGMENT IS REQUIRED (E.G. WATER WITH PRESCRIBED STRENGTH, WEIGHT, LONGEVITY CLASSIFICATION, ETC.) THESE MATERIALS/SPECIFICATIONS SHALL BE PROVIDED TO THE PROFESSIONAL AUTHORITY (E.G. PLUMBING, CIVIL ENGINEER, ETC.) RESPONSIBLE FOR THEIR QUALITY FOR THE SPECIFIED USE.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF ALL CONSTRUCTION MATERIALS SPILLED ON PAVED STREETS, DRIVEWAYS AND OFFSETS.
- THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS, TO ENSURE A TIMELY COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL NOTIFY ALL ENTITIES INVOLVED (PUBLIC AND PRIVATE) 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, AND PROVIDE 48 HOURS PRIOR NOTICE FOR ALL CURBING AND INSPECTIONS DURING CONSTRUCTION.
- THE WORK IN THIS CONTRACT INCLUDES ALL ON-SITE AND OFF-SITE WORK SHOWN ON THESE DRAWINGS, DESCRIBED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES EMERGENCY ACCESS TO THE PROJECT SITE TO THE SATISFACTION OF THE FIRE CONTROL AGENCY.
- ALL QUANTITIES SUPPLIED WITH THESE PLANS ARE APPROXIMATE AND USED FOR PERMIT AND BIDDING PURPOSES ONLY. THEY SHALL NOT BE USED IN ANY WAY FOR BIDDING OR CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT QUANTITY TAKE-OFFS FOR BIDDING AND CONSTRUCTION PURPOSES.

SHOULD ANY PREHISTORIC OR HISTORIC HUMAN REMAINS, ARTIFACTS OR ARCHITECTURE BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED WITHIN THE VICINITY OF THE DISCOVERY AND THE LEAD AGENCY SHALL BE NOTIFIED TO INSTRUCT UPON FURTHER ACTION. THE PERIOD OF TEMPORARY DELAY SHALL BE DETERMINED BY AN EVALUATION OF THE DISCOVERY BY THE LEAD AGENCY. CONTACT THE ENGINEER OR A QUALIFIED ARCHEOLOGIST IF DISCOVERY IS UNLIKELY.

### REINFORCING STEEL

- STANDARD SPECIFICATION  
A) BARS: ASTM A618, GRADE 60
- ALL DETAILS OF FABRICATION AND INSTALLATION OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF STANDARD PRACTICE, OR LOCAL ADOPTED CODE IF CLEARLY SUPERSEDING ACI.
- ALL REINFORCED STEEL SHALL BE ACCURATELY LOCATED AND ADEQUATELY SECURED IN POSITION BEFORE AND DURING PLACEMENT OF CONCRETE.
- CONCRETE COVERAGE FOR REINFORCING STEEL SHALL BE THE CLEAR DISTANCE TO THE EXTERIOR FACE OF THE STRUCTURAL BARS AS FOLLOWS:  
A) EXPOSED TO WEATHER - 2" (1-1/2" FOR #5 & SMALLER)  
B) EXPOSED TO WEATHER - 2" (1-1/2" FOR #5 & SMALLER - E.G. #3 TIES)  
C) WEARS & BARS NOT EXPOSED TO WEATHER OR EARTH - 1-1/2"
- PROVIDE CONTINUOUS REINFORCEMENT AROUND CORNERS AND THROUGH ALL CONSTRUCTION JOINTS.
- UNLESS NOTED OTHERWISE, PROVIDE 2#x# ALL BARS OF PERMANENT OPENINGS IN CONCRETE SLABS OR WALLS; EXTEND 2#x# 24" BEYOND OPENING ALL DIRECTIONS.

### STRUCTURAL STEEL

- STANDARD SPECIFICATION  
A) W4x130 THROUGH W4x50 (ASTM A572 Fy=50 ksi (MIN))  
B) OTHER ROLLED SHAPES (A, B, C, WE AND ANGLE): ASTM A36 Fy=25 ksi (MIN)  
C) ROUND BAR  
D) HP A327 Gr. 50 Fy=23 ksi (MIN)  
E) ASTM A509 Gr. 50 Fy=42 ksi (MIN)  
F) SQUARE/RECTANGULAR HSS: ASTM A500 Gr. 50 Fy=45 ksi (MIN)  
G) PLATE STOCK: ASTM A572 Gr. 50 Fy=50 ksi (MIN)  
H) ANCHOR RODS: ASTM F1554 Gr. 36 Fy=42 ksi (MIN)
- STRUCTURAL STEEL INSTALLATION SHALL CONFORM TO SPECIFICATIONS AND REQUIREMENTS OF "AISC Manual of Steel Construction" LATEST EDITION, U.S.C.

- BOLTED CONNECTIONS:  
A) 3/4" MINIMUM DIAMETER U.S.C.  
B) 2 BOLTS PER CONNECTION, MINIMUM  
C) USE FULLY TENSIONED A325 OR A490 BOLTS THROUGHOUT, U.S.C.  
D) WHERE BOLT TIGHTNESS NOT SPECIFIED, AND WHERE BOLTED CONNECTION NOT CLEARLY ACTING IN TENSION, TIGHT CONDITION IS SUFFICIENT. ALL PILES OF A JOINT SHALL BE IN FIRM CONTACT FOLLOWING BOLT TIGHTENING, EQUIVALENT TO 1.5 SURFACES OF AN IMPACT WRENCH OR THE TORQUE OBTAINABLE BY THE FULL EFFORT OF A NORMAL WORKMAN WITH A SPREAD BAR.
- WELDED CONNECTIONS:  
A) UTILIZE E70XX ELECTRODES  
B) FILLET WELDS PER AISC 889/910/915 BUT NOT LESS THAN 3/16"  
C) GROOVE WELDS SHALL BE FULL PENETRATION  
D) SEE STANDARD WELDING SYMBOL DETAIL THIS SHEET  
E) WELDS ARE TO BE CONTINUOUS UNLESS NOTED OTHERWISE  
F) SPECIAL INSPECTION REQUIRED FOR ALL FIELD WELDS, UNLESS WAIVED BY OWNER

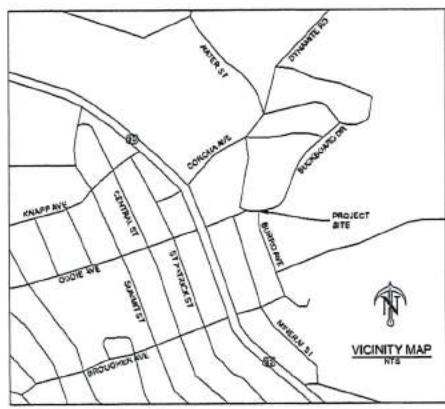
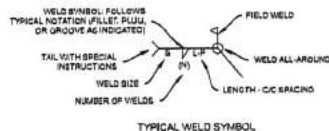
### CONCRETE AND CURB/CONCRETE

REINFORCED CONCRETE SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE IBC AND ACI STANDARD 318-11, AND FURTHERMORE:

- CONCRETE SPECIFICATIONS:  
A) DESIGN COMPRESSIVE STRENGTH AT 28 DAYS = 2500 PSI (NO SPECIAL INSPECTION REQUIRED, COORDINATE WITH GENERAL CONTRACTOR AND OWNER FOR HIGHER STRENGTH MIX DESIGN REQUIREMENTS, IF ANY)  
B) "OPTIONAL" CONCRETE SHALL BE TREATED WITH KXP-1000 INTEGRATED WATERPROOFING ADJUTIVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- CONCRETE SHALL NOT BE PLACED UNTIL INSPECTION BY AT MINIMUM, THE OWNER OR OWNER'S REPRESENTATIVE, OR SPECIAL INSPECTION, SPECIAL INSPECTION REQUIRED WHEN INDICATED HEREON (SEE TABLE THIS SHEET)
- "NEAT EARTH FORMING" MAY BE USED FOR FOOTINGS ONLY UNLESS NOTED OTHERWISE.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS. ADDITIONAL JOINTS REQUIRED TO FACILITATE CONSTRUCTION SHALL BE LOCATED AWAY FROM STRUCTURAL CONNECTIONS.
- CHAMFER OR BEVEL ALL EXPOSED FINISHED EDGES OF CONCRETE: 1" RADIUS UNLESS NOTED OTHERWISE.
- WHEN NOT SPECIFIED, FINISHES SHALL BE COORDINATED WITH OWNER AND SHALL CONFORM TO TYPICALLY ACCEPTED STANDARDS OF WORKMANSHIP, OR TO COMPLY WITH THE GOVERNING JURISDICTION.
- MECHANICAL, ARCHITECTURAL, AND ELECTRICAL DRAWINGS SHALL BE CONSULTED TO THAT REQUIRED GROUND PENETRATIONS, OUTLET BOXES, ETC. SHALL BE INCORPORATED INTO THE CONCRETE PLACEMENT SCHEDULE.
- WEATHER PROTECTION:  
A) IN HOT WEATHER FOLLOW "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING" ACI 309  
B) IN COLD WEATHER FOLLOW "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING" ACI 309



Know what's below.  
Call before you dig.



TONOPAH HIST. MINING PARK  
DESERT QUEEN HEADFRAME RESTORATION

REVISIONS

NO.	DATE	BY	REVISION
1			

FOR RECORD AND OWNER REVIEW

DATE: 10/20/2011  
TIME: 10:00 AM

REVISIONS

SHEET

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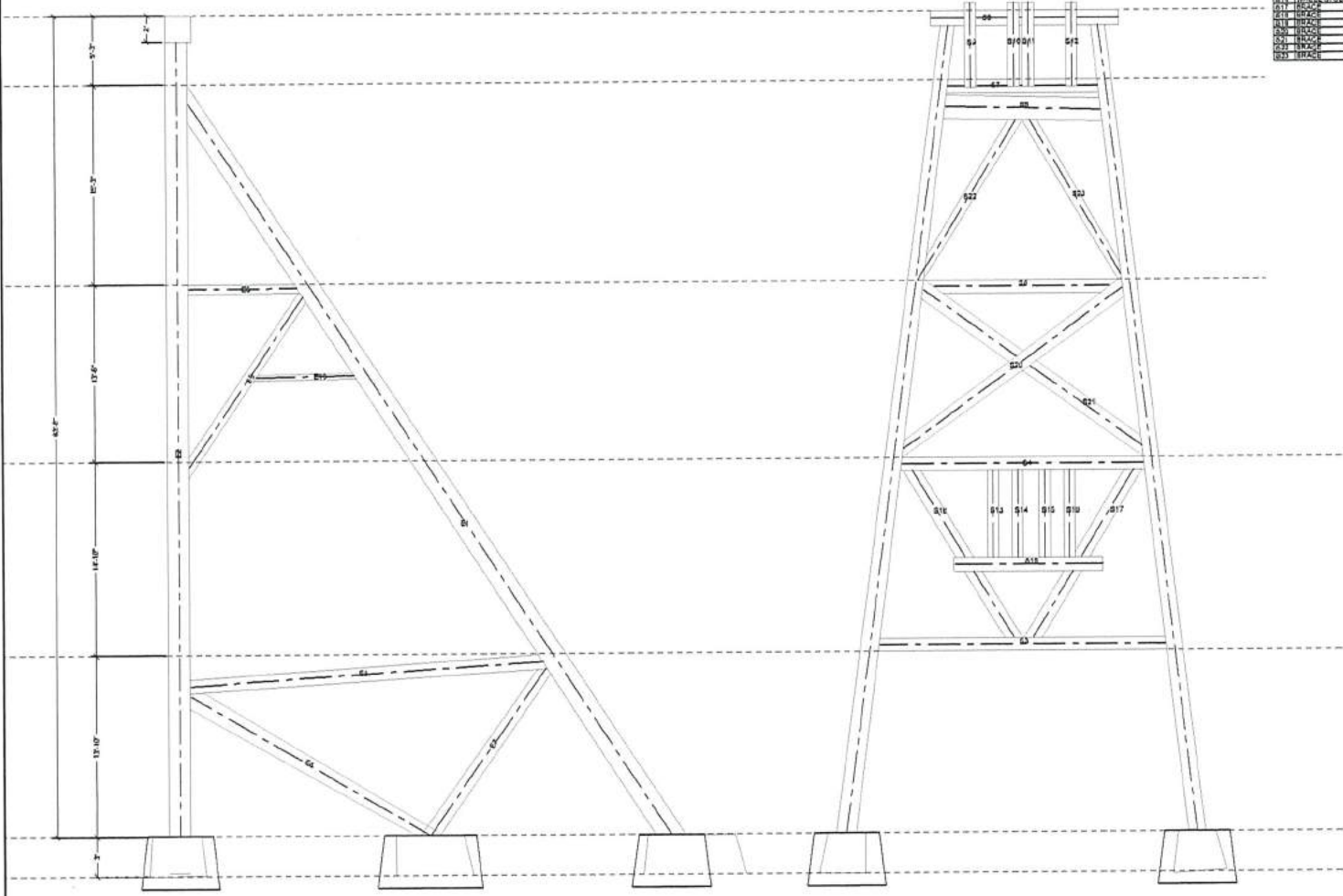






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S60 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S61 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S62 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S63 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S64 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S65 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S66 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S67 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S68 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S69 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S70 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S71 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S72 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S73 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S74 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S75 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S76 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S77 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S78 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S79 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S80 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S81 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S82 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S83 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S84 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S85 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S86 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S87 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S88 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S89 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S90 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S91 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S92 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S93 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S94 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S95 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S96 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S97 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S98 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S99 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	
S100 <td>12X12</td> <td>15'0"</td> <td></td>	12X12	15'0"	



WEST ELEVATION  
SCALE 1/4" = 1'-0"

SOUTH ELEVATION  
SCALE 1/4" = 1'-0"

**TONOPAH HIST. AMBING PARK**  
DESERT OPEN HEAVEN RESTORATION

PROJECT NO. 18-000000-001  
STRUCTURAL DRAWINGS  
WESTLAND SOUTH  
PROJECT NO. 18-000000-001

PROFESSIONAL SEAL  
**TONOPAH HISTORIC AMBING PARK**  
18-000000-001  
ARCHITECTURAL  
TUNAWAN  
TUNAWAN

**PRELIMINARY**  
**NOT FOR**  
**CONSTRUCTION**

NO.	DESCRIPTION	DATE	BY	CHKD	REFERENCES
1	FOUNDATION ENGINEERING 2022 2018 SILVER TOP HEAVEN RESTORATION				
2	OWNER CONSULTATION 07/18/2022				
3					
4					
5					
6					
7					

REVISIONS

SHEET  
**S3**